RTI LABORATORIES, INC.

Analytical Report

Level IV Data Package
RTI Work Order 1103609

Prepared by:

RTI Laboratories, Inc.
31628 Glendale
Livonia, MI 48150

Shaw Environmental & Infrastructure, Inc
Ms. Pamela Moss
74604 Technology Way
Denver, CO 80237

Project: Kirtland AFB
Task Order: 02

Reviewed and Approved By: _____ Date: April 18, 2011
Charles O'Bryan, Director Quality Management

TABLE OF CONTENTS
Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
Task Order: 02
RTI Laboratories, Inc. Project # 1103609

I	Case Narrative	1-2
II	Chain of Custody/Sample Receiving Documents	3-10
III	Work Order Sample Summary	11-12
IV	Dates Report	13-17
V	Analytical Report	18-100
VI	QC Summary Report	101-130
VII	Volatile Organic Compound Analyses	
	1. Analytical Sequence Log	
	a. 4/5/2011 (Run No. 39639)	131
	b. 4/6/2011 (Run No. 39665)	132
	c. 4/7/2011 (Run No. 39697)	133
	d. 4/8/2011 (Run No. 39704)	134
	2. Analytical Run Summary	
	a. Run No. 39639	135-178
	b. Run No. 39665	179-222
	c. Run No. 39697	223-303
	d. Run No. 39704	304-371
	3. Surrogate Recovery Reports	
	a. Run No. 39639	372-374
	b. Run No. 39665	375-377
	c. Run No. 39697	378-381
	d. Run No. 39704	382-383
	4. Spikes Reports	
	a. Run No. 39639	384-393
	b. Run No. 39665	394-403
	c. Run No. 39697	404-413
	d. Run No. 39704	414-423
	5. Method Blank Contamination Reports	424-427
	6. Run Log/Tune/Raw Data	
	a. 4/5/2011	428-538
	b. 4/6/2011	539-642
	c. 4/7/2011	643-926
	d. 4/8/2011	927-1081

TABLE OF CONTENTS
Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
Task Order: 02
RTI Laboratories, Inc. Project # 1103609

VII Volatile Organic Compound Analyses (cont'd)

7. Run Log/Tune/Response Factor Report/ICAL
   a. 3/17/2011 1082-1112
   b. 4/7/2011 1113-1141
8. Internal Standard Response Reports 1142-1145

VIII Air-Phase Petroleum Hydrocarbons Analyses

1. Analytical Sequence Log
   a. 4/11/2011 (Run No. 39776) 1146
   b. 4/12/2011 (Run No. 39777) 1147
   c. 4/13/2011 (Run No. 39813) 1148
2. Analytical Run Summary
   a. Run No. 39776 1149-1157
   b. Run No. 39777 1158-1172
   c. Run No. 39813 1173-1178
3. Surrogates Report
   a. Run No. 39776 1179-1181
   b. Run No. 39777 1182-1184
   c. Run No. 39813 1185
4. Spikes Report
   a. Run No. 39776 1186
   b. Run No. 39777 1187
   c. Run No. 39813 1188
5. Method Blank Contamination Reports 1189-1206
6. Injection Log/Raw Data
   a. 4/11/2011 1207-1236
   b. 4/12/2011 1237-1286
   c. 4/13/2011 1287-1302
7. Injection Log/Tune/Response Factor Report/ICAL 1303-1322
8. Internal Standard Response Report 1323-1325

TABLE OF CONTENTS
Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
Task Order: 02
RTI Laboratories, Inc. Project # 1103609

IX Fixed Gases (Noncondensable Gases/Light Hydrocarbons)

1. Analytical Sequence Log
   a. 3/28/2011 (Run No. 39564) 1326
   b. 3/29/2011 (Run No. 39565) 1327
   c. 3/30/2011 (Run No. 39566) 1328
2. Analytical Run Summary
   a. Run No. 39564 1329-1334
   b. Run No. 39565 1335-1341
   c. Run No. 39566 1342-1348
3. Spikes Report
   a. Run No. 39564 1349-1350
   b. Run No. 39565 1351
   c. Run No. 39566 1352-1353
4. Method Blank Contamination Report 1354-1355
5. Injection Log/Raw Data
   a. 3/29/2011 1356-1392
   b. 3/30/2011 1393-1431
   c. 3/31/2011 1432-1474
6. Injection Log/Response Factor Report/ICAL 1475-1498

RTI Laboratories, Inc.

Date: *18-Apr.-11*

CLIENT: Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
Task Order: 02
Lab Order: 1103609

CASE NARRATIVE

SAMPLE RECEIPT:
Samples were received at the RTI Laboratory, Livonia, MI via commercial delivery on 3/11/2011. Samples were received in good condition. The sample set consisted of 28 air samples.

SAMPLE ANALYSIS:
Samples were analyzed at the RTI Livonia Laboratory for:
Volatile Organic Compounds – EPA Method TO15
Air-Phase Petroleum Hydrocarbons – MA_APH (Massachusetts DEP APH Method)
Fixed Gases (Noncondensable Gases/Light Hydrocarbons) – ASTM D2504

QUALITY CONTROL:

Volatile Organic Compounds Analyses:

All sample analyses included a Method Blank, CCV, RLVS (CRQL) and Duplicate. All QC parameters were within established control limits except where noted on the QC forms or below. Initial and continuing calibration results were within method specifications. MS tuning parameters were within the acceptable ranges for the method.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39639, 4/5/11:
Recoveries for 1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, Benzyl Chloride, Bromomethane, Hexachlorobutadiene and Vinyl acetate exceeded the 30% criteria.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39665, 4/6/11:
Recoveries for 1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene, 1,2-Dibromoethane, Benzyl Chloride, Bromomethane, Hexachlorobutadiene and Vinyl acetate exceeded the 30% criteria.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39697, 4/7/11:
Recoveries for 1,1,2,2-Tetrachloroethane, 2-Hexanone, Benzyl Chloride, Bromomethane, and Trichloroethene exceeded the 30% criteria.

Continuing calibration verification (CCV) standard – Analytical Sequence ID 39704, 4/8/11:
Recoveries for 1,1,2,2-Tetrachloroethane, 1,2,4-Trichlorobenzene, 2-Hexanone, Benzyl Chloride, Bromomethane, Tetrahydrofuran and Trichloroethene exceeded the 30% criteria.

Surrogate recoveries were within established control limits.

Analytical Sequence ID 39665:

- Analytical Comments for METHOD EPA_TO15, SAMPLE TO15 RLVS 40cc v, Batch ID R39665: Some compounds are elevated due to carryover from high contamination of previously run sample.

RTI Laboratories, Inc. Date: *18-Apr.-11*

CLIENT: Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
Task Order: 02
Lab Order: 1103609

CASE NARRATIVE

Air-Phase Petroleum Hydrocarbons Analyses:

All sample analyses included a Method Blank, LCS, LCSD and Duplicate, where applicable. All QC parameters were within established control limits except where noted on the QC summary forms or below. Initial and continuing calibration results were within method specifications.

Surrogate recoveries were within established control limits.

Fixed Gases (Noncondensable Gases/Light Hydrocarbons) Analyses:

All sample analyses included a Method Blank, LCS, LCSD and Duplicate, where applicable. All QC parameters were within established control limits except where noted on the QC summary forms or below. Initial and continuing calibration results were within method specifications.

Samples collected in Tedlar bags have a limited holding time as specified by the manufacturer for the collection of volatile organic compounds. There is no known stability data for the analytes of interest for this project collected in Tedlar bags. The standard holding time is 48 hours for Tedlar bags. Due to the nature of the project sample analysis within 48 hours was not feasible

No other problems were noted during the analytical events associated with this project.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signed: _____ Date: 4/18/2011
Charles O'Bryan, Director, Quality Management

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

1103609

Reference Document No: 140705-SV003

Page 1 of 3

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 14 MAR 2011
Lab Destination: RTI Laboratories
Lab Contact: Mike Truchan
Project Contact: Pamela Moss
Carrier/Waybill No.: UPS/SHIPPING RECORD 1777 8250 11

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification: Non-hazard ; Flammable X; Skin Irritant ; Poison B ; Radiological ; Unknown

Sample Disposal: Return to Client ; Disposal by Lab X; Archive (mos.)

1. Relinquished By (Signature/Affiliation): Mark Lyon Shaw ENVI	Date: 3-14-11 Time: 1630
2. Relinquished By (Signature/Affiliation):	Date: Time:
3. Relinquished By (Signature/Affiliation):	Date: Time:
1. Received By (Signature/Affiliation): RTI Labs	Date: 3/16/11 Time: 1015
2. Received By (Signature/Affiliation):	Date: Time:
3. Received By (Signature/Affiliation):	Date: Time:

Comments: POSSIBLE HIGH HYDROCARBON CONCENTRATIONS

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
VA0006	SVMW-02-GS-VA0006-REG	04 MAR 2011	14:50	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		36
VA0006 ✓	SVMW-02-GS-VA0006-REG	04 MAR 2011	14:50	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0009	SVMW-03-GS-VA0009-REG	11 MAR 2011	08:42	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		120
VA0009 ✓	SVMW-03-GS-VA0009-REG	11 MAR 2011	08:42	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0010	SVMW-03-GS-VA0010-REG	11 MAR 2011	09:08	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		119
VA0010 ✓	SVMW-03-GS-VA0010-REG	11 MAR 2011	09:08	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0011	SVMW-03-GS-VA0011-REG	11 MAR 2011	09:36	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by			N		121

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV003

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							MA DEP, VOCs / TPH by TO-15					15
VA0011 ✓	SVMW-03-GS-VA0011-REG	11 MAR 2011	09:36	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0012	SVMW-03-GS-VA0012-REG	11 MAR 2011	10:13	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		32
VA0012 ✓	SVMW-03-GS-VA0012-REG	11 MAR 2011	10:13	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0022	SVMW-06-GS-VA0022-REG	07 MAR 2011	12:59	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		20
VA0022 ✓	SVMW-06-GS-VA0022-REG	07 MAR 2011	12:59	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0023	SVMW-06-GS-VA0023-REG	07 MAR 2011	13:30	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		22
VA0023 ✓	SVMW-06-GS-VA0023-REG	07 MAR 2011	13:30	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0024	SVMW-06-GS-VA0024-REG	07 MAR 2011	14:03	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		21
VA0024 ✓	SVMW-06-GS-VA0024-REG	07 MAR 2011	14:03	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0025	SVMW-06-GS-VA0025-REG	07 MAR 2011	14:36	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		11
VA0025 ✓	SVMW-06-GS-VA0025-REG	07 MAR 2011	14:36	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0030	SVMW-08-GS-VA0030-REG	10 MAR 2011	13:12	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		13
VA0030 ✓	SVMW-08-GS-VA0030-REG	10 MAR 2011	13:12	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0031	SVMW-08-GS-VA0031-REG	10 MAR 2011	13:46	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		9
VA0031 ✓	SVMW-08-GS-VA0031-REG	10 MAR 2011	13:46	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0032	SVMW-08-GS-VA0032-REG	10 MAR 2011	14:26	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		10
VA0032 ✓	SVMW-08-GS-VA0032-REG	10 MAR 2011	14:26	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0034	SVMW-09-GS-VA0034-REG	10 MAR 2011	10:03	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		8
VA0034 ✓	SVMW-09-GS-VA0034-REG	10 MAR 2011	10:03	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0035	SVMW-09-GS-VA0035-REG	10 MAR 2011	10:43	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		19
VA0035 ✓	SVMW-09-GS-VA0035-REG	10 MAR 2011	10:43	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0036	SVMW-09-GS-VA0036-REG	10 MAR 2011	11:21	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		7
VA0036 ✓	SVMW-09-GS-VA0036-REG	10 MAR 2011	11:21	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0037	SVMW-09-GS-VA0037-REG	10 MAR 2011	11:21	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		48
VA0037 ✓	SVMW-09-GS-VA0037-REG	10 MAR 2011	11:21	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0041	SVMW-10-GS-VA0041-REG	03 MAR 2011	14:33	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		16 48
VA0041 ✓	SVMW-10-GS-VA0041-REG	03 MAR 2011	14:33	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		

** bottles labeled 09:11 As time 48

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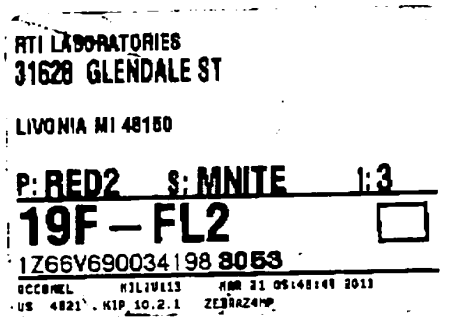
ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV003

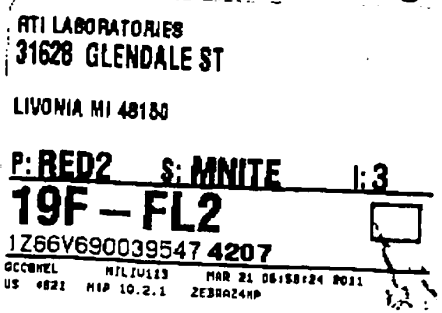
Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
VA0051	SVMW-13-GS-VA0051-REG	11 MAR 2011	10:54	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		16
VA0051 ✓	SVMW-13-GS-VA0051-REG	11 MAR 2011	10:54	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0052	SVMW-13-GS-VA0052-REG	11 MAR 2011	11:22	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		17
VA0052 ✓	SVMW-13-GS-VA0052-REG	11 MAR 2011	11:22	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0053	SVMW-13-GS-VA0053-REG	11 MAR 2011	11:47	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		35
VA0053 ✓	SVMW-13-GS-VA0053-REG	11 MAR 2011	11:47	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0054	SVMW-13-GS-VA0054-FD	11 MAR 2011	11:47	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		14
VA0054 ✓	SVMW-13-GS-VA0054-FD	11 MAR 2011	11:47	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0055	SVMW-13-GS-VA0055-REG	11 MAR 2011	12:28	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		18
VA0055 ✓	SVMW-13-GS-VA0055-REG	11 MAR 2011	12:28	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0061	SVMW-15-GS-VA0061-REG	07 MAR 2011	09:11	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		30
VA0061 ✓	SVMW-15-GS-VA0061-REG	07 MAR 2011	09:11	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0062	SVMW-15-GS-VA0062-REG	07 MAR 2011	09:43	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		28
VA0062 ✓	SVMW-15-GS-VA0062-REG	07 MAR 2011	09:43	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0063	SVMW-15-GS-VA0063-REG	07 MAR 2011	10:16	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		26
VA0063 ✓	SVMW-15-GS-VA0063-REG	07 MAR 2011	10:16	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0064	SVMW-15-GS-VA0064-REG	07 MAR 2011	10:54	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		27
VA0064 ✓	SVMW-15-GS-VA0064-REG	07 MAR 2011	10:54	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA0065	SVMW-15-GS-VA0065-FD	07 MAR 2011	10:54	1 L BOTTLEVAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		41
VA0065 ✓	SVMW-15-GS-VA0065-FD	07 MAR 2011	10:54	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D2504			N		
VA8003-TB	FIELDQC-AQ-VA8003-TB-TB	03 MAR 2011	08:00	1 L BOTTLEVAC	1	None Required	VOCs / TPH by TO-15			N		74

Cooler A200

Bottle Vac# 7, 8, 11, 16, 119



Cooler A118 – Regulators Only



- Tedlar Bags: Cooler: A - 120

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Sample Receipt Checklist

Client Name: **SHA04** Date and Time Received: **3/21/2011 10:15:00 AM**

Work Order Number **1103609** RcptNo: **1** Received by: **Katherine Jones**

Completed by: Reviewed by:

Completed Date: 3/21/2011 5:39:40 PM Reviewed Date:

Carrier name: UPS

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	Not Present ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☐	No ☑	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑	
Response when temperature is outside of range:	Not required		
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☑	To °C
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials ☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	No Water ☑
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☐	No ☑	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☑	Sticker ☐	Not Present ☐
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: SDG: SAS:

Adjusted? _____ Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1103609-001A	Container-01 of 01	Bottle				
1103609-001B	Container-01 of 01	Bottle				
1103609-002A	Container-01 of 01	Bottle				
1103609-002B	Container-01 of 01	Bottle				
1103609-003A	Container-01 of 01	Bottle				
1103609-003B	Container-01 of 01	Bottle				
1103609-004A	Container-01 of 01	Bottle				
1103609-004B	Container-01 of 01	Bottle				
1103609-005A	Container-01 of 01	Bottle				
1103609-005B	Container-01 of 01	Bottle				
1103609-006A	Container-01 of 01	Bottle				
1103609-006B	Container-01 of 01	Bottle				
1103609-007A	Container-01 of 01	Bottle				
1103609-007B	Container-01 of 01	Bottle				
1103609-008A	Container-01 of 01	Bottle				
1103609-008B	Container-01 of 01	Bottle				
1103609-009A	Container-01 of 01	Bottle				
1103609-009B	Container-01 of 01	Bottle				
1103609-010A	Container-01 of 01	Bottle				
1103609-010B	Container-01 of 01	Bottle				
1103609-011A	Container-01 of 01	Bottle				
1103609-011B	Container-01 of 01	Bottle				
1103609-012A	Container-01 of 01	Bottle				
1103609-012B	Container-01 of 01	Bottle				
1103609-013A	Container-01 of 01	Bottle				
1103609-013B	Container-01 of 01	Bottle				
1103609-014A	Container-01 of 01	Bottle				
1103609-014B	Container-01 of 01	Bottle				
1103609-015A	Container-01 of 01	Bottle				
1103609-015B	Container-01 of 01	Bottle				
1103609-016A	Container-01 of 01	Bottle				
1103609-016B	Container-01 of 01	Bottle				
1103609-017A	Container-01 of 01	Bottle				
1103609-017B	Container-01 of 01	Bottle				

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1103609-018A	Container-01 of 01	Bottle				
1103609-018B	Container-01 of 01	Bottle				
1103609-019A	Container-01 of 01	Bottle				
1103609-019B	Container-01 of 01	Bottle				
1103609-020A	Container-01 of 01	Bottle				
1103609-020B	Container-01 of 01	Bottle				
1103609-021A	Container-01 of 01	Bottle				
1103609-021B	Container-01 of 01	Bottle				
1103609-022A	Container-01 of 01	Bottle				
1103609-022B	Container-01 of 01	Bottle				
1103609-023A	Container-01 of 01	Bottle				
1103609-023B	Container-01 of 01	Bottle				
1103609-024A	Container-01 of 01	Bottle				
1103609-024B	Container-01 of 01	Bottle				
1103609-025A	Container-01 of 01	Bottle				
1103609-025B	Container-01 of 01	Bottle				
1103609-026A	Container-01 of 01	Bottle				
1103609-026B	Container-01 of 01	Bottle				
1103609-027A	Container-01 of 01	Bottle				
1103609-027B	Container-01 of 01	Bottle				
1103609-028A	Container-01 of 01	Bottle				

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
A118	N/A	Good	Not Present			
A120	N/A	Good	Yes		3/14/2011	Mark Lyon
A200	N/A	Good	Yes		3/14/2011	Mark Lyon

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client Contacted? ☑ Yes ☐ No ☐ NA Person Contacted: Mark/Pam

Contact Mode: ☐ Phone: ☐ Fax: ☑ Email: ☐ In Person:

Client Instructions:

Date Contacted: 3/22/2011 Contacted By: Katherine Jones

Regarding: Times on chain vs bottle labels

CorrectiveAction:

Comments:
Sample ID VA0023, tedlar bag was rec'd with little volume. Confirmed with analyst, enough sample volume received. Checked valve, sample valve was tight. Cooler A118 contained no samples just Regulators

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Workorder Sample Summary

WO#: 1103609

17-Apr-11

CLIENT: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB 140705

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1103609-001	SVMW-02-GS-VA0006-REG		3/4/2011 2:50:00 PM	3/21/2011 10:15:00 AM	Air
1103609-001	SVMW-02-GS-VA0006-REG		3/4/2011 2:50:00 PM	3/21/2011 10:15:00 AM	Air
1103609-002	SVMW-03-GS-VA0009-REG		3/11/2011 8:42:00 AM	3/21/2011 10:15:00 AM	Air
1103609-002	SVMW-03-GS-VA0009-REG		3/11/2011 8:42:00 AM	3/21/2011 10:15:00 AM	Air
1103609-003	SVMW-03-GS-VA0010-REG		3/11/2011 9:08:00 AM	3/21/2011 10:15:00 AM	Air
1103609-003	SVMW-03-GS-VA0010-REG		3/11/2011 9:08:00 AM	3/21/2011 10:15:00 AM	Air
1103609-004	SVMW-03-GS-VA0011-REG		3/11/2011 9:36:00 AM	3/21/2011 10:15:00 AM	Air
1103609-004	SVMW-03-GS-VA0011-REG		3/11/2011 9:36:00 AM	3/21/2011 10:15:00 AM	Air
1103609-005	SVMW-03-GS-VA0012-REG		3/11/2011 10:13:00 AM	3/21/2011 10:15:00 AM	Air
1103609-005	SVMW-03-GS-VA0012-REG		3/11/2011 10:13:00 AM	3/21/2011 10:15:00 AM	Air
1103609-006	SVMW-06-GS-VA0022-REG		3/7/2011 12:59:00 PM	3/21/2011 10:15:00 AM	Air
1103609-006	SVMW-06-GS-VA0022-REG		3/7/2011 12:59:00 PM	3/21/2011 10:15:00 AM	Air
1103609-007	SVMW-06-GS-VA0023-REG		3/7/2011 1:30:00 PM	3/21/2011 10:15:00 AM	Air
1103609-007	SVMW-06-GS-VA0023-REG		3/7/2011 1:30:00 PM	3/21/2011 10:15:00 AM	Air
1103609-008	SVMW-06-GS-VA0024-REG		3/7/2011 2:03:00 PM	3/21/2011 10:15:00 AM	Air
1103609-008	SVMW-06-GS-VA0024-REG		3/7/2011 2:03:00 PM	3/21/2011 10:15:00 AM	Air
1103609-009	SVMW-06-GS-VA0025-REG		3/7/2011 2:36:00 PM	3/21/2011 10:15:00 AM	Air
1103609-009	SVMW-06-GS-VA0025-REG		3/7/2011 2:36:00 PM	3/21/2011 10:15:00 AM	Air
1103609-010	SVMW-08-GS-VA0030-REG		3/10/2011 1:12:00 PM	3/21/2011 10:15:00 AM	Air
1103609-010	SVMW-08-GS-VA0030-REG		3/10/2011 1:12:00 PM	3/21/2011 10:15:00 AM	Air
1103609-011	SVMW-08-GS-VA0031-REG		3/10/2011 1:46:00 PM	3/21/2011 10:15:00 AM	Air
1103609-011	SVMW-08-GS-VA0031-REG		3/10/2011 1:46:00 PM	3/21/2011 10:15:00 AM	Air
1103609-012	SVMW-08-GS-VA0032-REG		3/10/2011 2:26:00 PM	3/21/2011 10:15:00 AM	Air
1103609-012	SVMW-08-GS-VA0032-REG		3/10/2011 2:26:00 PM	3/21/2011 10:15:00 AM	Air
1103609-013	SVMW-09-GS-VA0034-REG		3/10/2011 10:03:00 AM	3/21/2011 10:15:00 AM	Air
1103609-013	SVMW-09-GS-VA0034-REG		3/10/2011 10:03:00 AM	3/21/2011 10:15:00 AM	Air
1103609-014	SVMW-09-GS-VA0035-REG		3/10/2011 10:43:00 AM	3/21/2011 10:15:00 AM	Air
1103609-014	SVMW-09-GS-VA0035-REG		3/10/2011 10:43:00 AM	3/21/2011 10:15:00 AM	Air
1103609-015	SVMW-09-GS-VA0036-REG		3/10/2011 9:11:00 AM	3/21/2011 10:15:00 AM	Air
1103609-015	SVMW-09-GS-VA0036-REG		3/10/2011 9:11:00 AM	3/21/2011 10:15:00 AM	Air
1103609-016	SVMW-09-GS-VA0037-REG		3/10/2011 11:21:00 AM	3/21/2011 10:15:00 AM	Air
1103609-016	SVMW-09-GS-VA0037-REG		3/10/2011 11:21:00 AM	3/21/2011 10:15:00 AM	Air
1103609-017	SVMW-10-GS-VA0041-REG		3/3/2011 2:33:00 PM	3/21/2011 10:15:00 AM	Air
1103609-017	SVMW-10-GS-VA0041-REG		3/3/2011 2:33:00 PM	3/21/2011 10:15:00 AM	Air

RTI LABORATORIES, INC.

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Workorder Sample Summary

WO#: 1103609

17-Apr-11

CLIENT: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB 140705

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1103609-018	SVMW-13-GS-VA0051-REG		3/11/2011 10:54:00 AM	3/21/2011 10:15:00 AM	Air
1103609-018	SVMW-13-GS-VA0051-REG		3/11/2011 10:54:00 AM	3/21/2011 10:15:00 AM	Air
1103609-019	SVMW-13-GS-VA0052-REG		3/11/2011 11:22:00 AM	3/21/2011 10:15:00 AM	Air
1103609-019	SVMW-13-GS-VA0052-REG		3/11/2011 11:22:00 AM	3/21/2011 10:15:00 AM	Air
1103609-020	SVMW-13-GS-VA0053-REG		3/11/2011 11:47:00 AM	3/21/2011 10:15:00 AM	Air
1103609-020	SVMW-13-GS-VA0053-REG		3/11/2011 11:47:00 AM	3/21/2011 10:15:00 AM	Air
1103609-021	SVMW-13-GS-VA0054-FD		3/11/2011 11:47:00 AM	3/21/2011 10:15:00 AM	Air
1103609-021	SVMW-13-GS-VA0054-FD		3/11/2011 11:47:00 AM	3/21/2011 10:15:00 AM	Air
1103609-022	SVMW-13-GS-VA0055-REG		3/11/2011 12:28:00 PM	3/21/2011 10:15:00 AM	Air
1103609-022	SVMW-13-GS-VA0055-REG		3/11/2011 12:28:00 PM	3/21/2011 10:15:00 AM	Air
1103609-023	SVMW-15-GS-VA0061-REG		3/7/2011 9:11:00 AM	3/21/2011 10:15:00 AM	Air
1103609-023	SVMW-15-GS-VA0061-REG		3/7/2011 9:11:00 AM	3/21/2011 10:15:00 AM	Air
1103609-024	SVMW-15-GS-VA0062-REG		3/7/2011 9:43:00 AM	3/21/2011 10:15:00 AM	Air
1103609-024	SVMW-15-GS-VA0062-REG		3/7/2011 9:43:00 AM	3/21/2011 10:15:00 AM	Air
1103609-025	SVMW-15-GS-VA0063-REG		3/7/2011 10:16:00 AM	3/21/2011 10:15:00 AM	Air
1103609-025	SVMW-15-GS-VA0063-REG		3/7/2011 10:16:00 AM	3/21/2011 10:15:00 AM	Air
1103609-026	SVMW-15-GS-VA0064-REG		3/7/2011 10:54:00 AM	3/21/2011 10:15:00 AM	Air
1103609-026	SVMW-15-GS-VA0064-REG		3/7/2011 10:54:00 AM	3/21/2011 10:15:00 AM	Air
1103609-027	SVMW-15-GS-VA0065-FD		3/7/2011 10:54:00 AM	3/21/2011 10:15:00 AM	Air
1103609-027	SVMW-15-GS-VA0065-FD		3/7/2011 10:54:00 AM	3/21/2011 10:15:00 AM	Air
1103609-028	FIELDQC-AQ-VA8003-TB-TB		3/3/2011 8:00:00 AM	3/21/2011 10:15:00 AM	Air

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DATES REPORT

WO#: 1103609

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103609-001A	SVMW-02-GS-VA0006-REG	3/4/2011 2:50:00 PM	Air	Air-Phase Petroleum Hydrocarbons			4/12/2011 12:26:00 AM
				Volatile Organic Compounds			4/6/2011 4:18:00 AM
1103609-001B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 3:58:00 AM
1103609-002A	SVMW-03-GS-VA0009-REG	3/11/2011 8:42:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 1:48:00 AM
				Volatile Organic Compounds			4/8/2011 2:17:00 PM
1103609-002B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 4:26:00 AM
1103609-003A	SVMW-03-GS-VA0010-REG	3/11/2011 9:08:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 2:29:00 AM
				Volatile Organic Compounds			4/8/2011 8:27:00 PM
1103609-003B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 4:58:00 AM
1103609-004A	SVMW-03-GS-VA0011-REG	3/11/2011 9:36:00 AM		Air-Phase Petroleum Hydrocarbons			4/13/2011 6:37:00 PM
				Volatile Organic Compounds			4/8/2011 9:08:00 PM
1103609-004B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 5:40:00 AM
1103609-005A	SVMW-03-GS-VA0012-REG	3/11/2011 10:13:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 3:52:00 AM
				Volatile Organic Compounds			4/7/2011 5:12:00 AM
				Volatile Organic Compounds			4/8/2011 7:05:00 PM
1103609-005B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 6:01:00 AM
1103609-006A	SVMW-06-GS-VA0022-REG	3/7/2011 12:59:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 4:33:00 AM
				Volatile Organic Compounds			4/6/2011 5:46:00 AM
1103609-006B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 6:26:00 AM

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WO#: 1103609

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103609-007A	SVMW-06-GS-VA0023-REG	3/7/2011 1:30:00 PM	Air	Air-Phase Petroleum Hydrocarbons			4/12/2011 5:14:00 AM
				Volatile Organic Compounds			4/6/2011 6:31:00 AM
1103609-007B				Noncondensable Gases and Light Hydrocarbons			3/29/2011 7:35:00 AM
1103609-008A	SVMW-06-GS-VA0024-REG	3/7/2011 2:03:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 1:22:00 PM
				Volatile Organic Compounds			4/6/2011 7:15:00 AM
				Volatile Organic Compounds			4/7/2011 1:39:00 AM
1103609-008B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 1:10:00 AM
1103609-009A	SVMW-06-GS-VA0025-REG	3/7/2011 2:36:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 2:44:00 PM
				Volatile Organic Compounds			4/6/2011 7:59:00 AM
				Volatile Organic Compounds			4/7/2011 2:21:00 AM
1103609-009B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 1:30:00 AM
1103609-010A	SVMW-08-GS-VA0030-REG	3/10/2011 1:12:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 3:24:00 PM
				Volatile Organic Compounds			4/7/2011 9:32:00 AM
				Volatile Organic Compounds			4/8/2011 9:50:00 PM
1103609-010B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 2:30:00 AM
1103609-011A	SVMW-08-GS-VA0031-REG	3/10/2011 1:46:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 4:05:00 PM
				Volatile Organic Compounds			4/7/2011 10:30:00 PM
1103609-011B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 3:04:00 AM
1103609-012A	SVMW-08-GS-VA0032-REG	3/10/2011 2:26:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 4:46:00 PM

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DATES REPORT

WO#: 1103609

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103609-012A	SVMW-08-GS-VA0032-REG	3/10/2011 2:26:00 PM	Air	Volatile Organic Compounds			4/7/2011 11:49:00 PM
1103609-012B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 3:32:00 AM
1103609-013A	SVMW-09-GS-VA0034-REG	3/10/2011 10:03:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 5:27:00 PM
				Volatile Organic Compounds			4/8/2011 12:29:00 AM
				Volatile Organic Compounds			4/8/2011 10:31:00 PM
1103609-013B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 4:02:00 AM
1103609-014A	SVMW-09-GS-VA0035-REG	3/10/2011 10:43:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 6:09:00 PM
				Volatile Organic Compounds			4/8/2011 11:12:00 PM
				Volatile Organic Compounds			4/8/2011 1:09:00 AM
1103609-014B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 4:30:00 AM
1103609-015A	SVMW-09-GS-VA0036-REG	3/10/2011 9:11:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 6:54:00 PM
				Volatile Organic Compounds			4/8/2011 11:54:00 PM
1103609-015B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 5:11:00 AM
1103609-016A	SVMW-09-GS-VA0037-REG	3/10/2011 11:21:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 7:34:00 PM
				Volatile Organic Compounds			4/8/2011 2:30:00 AM
1103609-016B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 6:07:00 AM
1103609-017A	SVMW-10-GS-VA0041-REG	3/3/2011 2:33:00 PM		Air-Phase Petroleum Hydrocarbons			4/14/2011 12:35:00 PM
				Volatile Organic Compounds			4/7/2011 12:56:00 AM
1103609-017B				Noncondensable Gases and Light Hydrocarbons			3/30/2011 6:30:00 AM

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DATES REPORT

WO#: 1103609

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103609-018A	SVMW-13-GS-VA0051-REG	3/11/2011 10:54:00 AM	Air	Air-Phase Petroleum Hydrocarbons			4/12/2011 8:55:00 PM
				Volatile Organic Compounds			4/8/2011 3:10:00 AM
1103609-018B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 2:38:00 AM
1103609-019A	SVMW-13-GS-VA0052-REG	3/11/2011 11:22:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 9:37:00 PM
				Volatile Organic Compounds			4/8/2011 3:50:00 AM
1103609-019B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 2:59:00 AM
1103609-020A	SVMW-13-GS-VA0053-REG	3/11/2011 11:47:00 AM		Air-Phase Petroleum Hydrocarbons			4/12/2011 10:18:00 PM
				Volatile Organic Compounds			4/8/2011 4:30:00 AM
1103609-020B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 3:27:00 AM
1103609-021A	SVMW-13-GS-VA0054-FD			Air-Phase Petroleum Hydrocarbons			4/12/2011 10:59:00 PM
				Volatile Organic Compounds			4/8/2011 5:11:00 AM
1103609-021B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 3:50:00 AM
1103609-022A	SVMW-13-GS-VA0055-REG	3/11/2011 12:28:00 PM		Air-Phase Petroleum Hydrocarbons			4/12/2011 11:39:00 PM
				Volatile Organic Compounds			4/8/2011 5:51:00 AM
1103609-022B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 4:11:00 AM
1103609-023A	SVMW-15-GS-VA0061-REG	3/7/2011 9:11:00 AM		Air-Phase Petroleum Hydrocarbons			4/13/2011 12:22:00 AM
				Volatile Organic Compounds			4/8/2011 1:36:00 PM
1103609-023B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 4:46:00 AM
1103609-024A	SVMW-15-GS-VA0062-REG	3/7/2011 9:43:00 AM		Air-Phase Petroleum Hydrocarbons			4/13/2011 1:06:00 AM

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DATES REPORT

WO#: 1103609

17-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1103609-024A	SVMW-15-GS-VA0062-REG	3/7/2011 9:43:00 AM	Air	Volatile Organic Compounds			4/9/2011 4:03:00 AM
1103609-024B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 5:07:00 AM
1103609-025A	SVMW-15-GS-VA0063-REG	3/7/2011 10:16:00 AM		Air-Phase Petroleum Hydrocarbons			4/13/2011 1:47:00 AM
				Volatile Organic Compounds			4/9/2011 11:34:00 AM
				Volatile Organic Compounds			4/8/2011 9:28:00 AM
1103609-025B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 5:27:00 AM
1103609-026A	SVMW-15-GS-VA0064-REG	3/7/2011 10:54:00 AM		Air-Phase Petroleum Hydrocarbons			4/13/2011 2:28:00 AM
				Volatile Organic Compounds			4/9/2011 1:16:00 AM
				Volatile Organic Compounds			4/8/2011 10:08:00 AM
1103609-026B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 5:46:00 AM
1103609-027A	SVMW-15-GS-VA0065-FD			Air-Phase Petroleum Hydrocarbons			4/13/2011 3:09:00 AM
				Volatile Organic Compounds			4/9/2011 1:58:00 AM
				Volatile Organic Compounds			4/8/2011 10:49:00 AM
1103609-027B				Noncondensable Gases and Light Hydrocarbons			3/31/2011 6:05:00 AM
1103609-028A	FIELDQC-AQ-VA8003-TB-TB	3/3/2011 8:00:00 AM		Volatile Organic Compounds			4/9/2011 2:40:00 AM

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc

Collection Date: 3/4/2011 2:50:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-001

Matrix: AIR

Client Sample ID SVMW-02-GS-VA0006-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	4.5	0.30	H	%	1	3/29/2011 3:58:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 3:58:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 3:58:00 AM
Nitrogen	83	1.4	H	%	1	3/29/2011 3:58:00 AM
Oxygen	9.8	0.080	H	%	1	3/29/2011 3:58:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Acetone	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Benzene	11,000	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:50:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-001 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0006-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Cyclohexane	33,000	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Ethylbenzene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Heptane	13,000	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
m,p-Xylene	ND	16,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Methylene chloride	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
n-Hexane	31,000	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
o-Xylene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Propylene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Toluene	18,000	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/4/2011 2:50:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-001 **Matrix:** AIR

Client Sample ID SVMW-02-GS-VA0006-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/6/2011 4:18:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	8000	4/6/2011 4:18:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	2,000,000	470,000	H	µg/m³	4000	4/12/2011 12:26:00 AM
C9-C10 Aromatic Hydrocarbons	ND	530,000	H	µg/m³	4000	4/12/2011 12:26:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000	H	µg/m³	4000	4/12/2011 12:26:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	H	%REC	4000	4/12/2011 12:26:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 8:42:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-002 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0009-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: MB
Carbon dioxide	5.1	0.30	H	%	1	3/29/2011 4:26:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 4:26:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 4:26:00 AM
Nitrogen	81	1.4	H	%	1	3/29/2011 4:26:00 AM
Oxygen	12	0.080	H	%	1	3/29/2011 4:26:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
1,1,1-Trichloroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,1,2,2-Tetrachloroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,1,2-Trichloroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,1-Dichloroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,1-Dichloroethene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,2,4-Trichlorobenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,2,4-Trimethylbenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,2-Dibromoethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,2-Dichlorobenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,2-Dichloroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,2-Dichloropropane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,3,5-Trimethylbenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,3-Butadiene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,3-Dichlorobenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,4-Dichlorobenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
1,4-Dioxane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
2-Butanone	ND	40		ppbv	40	4/8/2011 2:17:00 PM
2-Hexanone	ND	40		ppbv	40	4/8/2011 2:17:00 PM
2-Propanol	ND	40		ppbv	40	4/8/2011 2:17:00 PM
4-Ethyltoluene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
4-Methyl-2-pentanone	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Acetone	49	40		ppbv	40	4/8/2011 2:17:00 PM
Benzene	320	40		ppbv	40	4/8/2011 2:17:00 PM
Benzyl chloride	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Bromodichloromethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 8:42:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-002 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0009-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
Bromoform	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Bromomethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Carbon disulfide	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Carbon tetrachloride	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Chlorobenzene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Chlorodibromomethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Chloroethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Chloroform	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Chloromethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
cis-1,2-Dichloroethene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
cis-1,3-dichloropropene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Cyclohexane	1,100	40		ppbv	40	4/8/2011 2:17:00 PM
Dichlorodifluoromethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Ethanol	46	40		ppbv	40	4/8/2011 2:17:00 PM
Ethyl acetate	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Ethylbenzene	66	40		ppbv	40	4/8/2011 2:17:00 PM
Heptane	770	40		ppbv	40	4/8/2011 2:17:00 PM
Hexachlorobutadiene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
m,p-Xylene	160	80		ppbv	40	4/8/2011 2:17:00 PM
Methylene chloride	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Naphthalene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
n-Hexane	550	40		ppbv	40	4/8/2011 2:17:00 PM
o-Xylene	51	40		ppbv	40	4/8/2011 2:17:00 PM
Propylene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Styrene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
tert-Butyl Methyl Ether	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Tetrachloroethene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Tetrahydrofuran	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Toluene	890	40		ppbv	40	4/8/2011 2:17:00 PM
trans-1,2-Dichloroethene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
trans-1,3-dichloropropene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Trichloroethene	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Trichlorofluoromethane	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Vinyl acetate	ND	40		ppbv	40	4/8/2011 2:17:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 8:42:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-002 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0009-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
Vinyl chloride	ND	40		ppbv	40	4/8/2011 2:17:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	40	4/8/2011 2:17:00 PM
MASS APH AIR				**MA_APH**		Analyst: MT3
AIR-PHASE PETROLEUM HYDROCARBONS						
C5-C8 Aliphatic Hydrocarbons	48,000	4,700	H	µg/m³	40	4/12/2011 1:48:00 AM
C9-C10 Aromatic Hydrocarbons	ND	5,300	H	µg/m³	40	4/12/2011 1:48:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	10,000	H	µg/m³	40	4/12/2011 1:48:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	40	4/12/2011 1:48:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 9:08:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-003 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0010-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	7.6	0.30	H	%	1	3/29/2011 4:58:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 4:58:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 4:58:00 AM
Nitrogen	85	1.4	H	%	1	3/29/2011 4:58:00 AM
Oxygen	5.1	0.080	H	%	1	3/29/2011 4:58:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,1,2,2-Tetrachloroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,1,2-Trichloroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,1-Dichloroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,1-Dichloroethene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,2,4-Trichlorobenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,2,4-Trimethylbenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,2-Dibromoethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,2-Dichlorobenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,2-Dichloroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,2-Dichloropropane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,3,5-Trimethylbenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,3-Butadiene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,3-Dichlorobenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,4-Dichlorobenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
1,4-Dioxane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
2-Butanone	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
2-Hexanone	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
2-Propanol	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
4-Ethyltoluene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
4-Methyl-2-pentanone	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Acetone	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Benzene	1,100,000	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Benzyl chloride	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Bromodichloromethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 9:08:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-003 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0010-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Bromomethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Carbon disulfide	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Carbon tetrachloride	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Chlorobenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Chlorodibromomethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Chloroethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Chloroform	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Chloromethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
cis-1,2-Dichloroethene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
cis-1,3-dichloropropene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Cyclohexane	4,500,000	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Dichlorodifluoromethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Ethanol	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Ethyl acetate	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Ethylbenzene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Heptane	2,700,000	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Hexachlorobutadiene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
m,p-Xylene	ND	320,000		ppbv	160000	4/8/2011 8:27:00 PM
Methylene chloride	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Naphthalene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
n-Hexane	4,200,000	160,000		ppbv	160000	4/8/2011 8:27:00 PM
o-Xylene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Propylene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Styrene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
tert-Butyl Methyl Ether	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Tetrachloroethene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Tetrahydrofuran	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Toluene	810,000	160,000		ppbv	160000	4/8/2011 8:27:00 PM
trans-1,2-Dichloroethene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
trans-1,3-dichloropropene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Trichloroethene	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Trichlorofluoromethane	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Vinyl acetate	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 9:08:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-003 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0010-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	160,000		ppbv	160000	4/8/2011 8:27:00 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%REC	160000	4/8/2011 8:27:00 PM
MASS APH AIR **AIR-PHASE PETROLEUM HYDROCARBONS**				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	140,000,000	19,000,000	H	µg/m³	160000	4/12/2011 2:29:00 AM
C9-C10 Aromatic Hydrocarbons	ND	21,000,000	H	µg/m³	160000	4/12/2011 2:29:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	40,000,000	H	µg/m³	160000	4/12/2011 2:29:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	H	%REC	160000	4/12/2011 2:29:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 9:36:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-004 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0011-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.87	0.30	H	%	1	3/29/2011 5:40:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 5:40:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 5:40:00 AM
Nitrogen	80	1.4	H	%	1	3/29/2011 5:40:00 AM
Oxygen	17	0.080	H	%	1	3/29/2011 5:40:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Acetone	100,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Benzene	110,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 9:36:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-004 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0011-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Cyclohexane	300,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Ethylbenzene	18,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Heptane	220,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
m,p-Xylene	36,000	16,000		ppbv	8000	4/8/2011 9:08:00 PM
Methylene chloride	11,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
n-Hexane	270,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
o-Xylene	8,800	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Propylene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Styrene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Toluene	180,000	8,000		ppbv	8000	4/8/2011 9:08:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 9:36:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-004 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0011-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 9:08:00 PM
Surr: 4-Bromofluorobenzene	97.8	70-130		%REC	8000	4/8/2011 9:08:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	850,000	47,000	H	µg/m³	400	4/13/2011 6:37:00 PM
C9-C10 Aromatic Hydrocarbons	ND	53,000	H	µg/m³	400	4/13/2011 6:37:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	100,000	H	µg/m³	400	4/13/2011 6:37:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	400	4/13/2011 6:37:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 10:13:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-005 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0012-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.50	0.30	H	%	1	3/29/2011 6:01:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 6:01:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 6:01:00 AM
Nitrogen	77	1.4	H	%	1	3/29/2011 6:01:00 AM
Oxygen	19	0.080	H	%	1	3/29/2011 6:01:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Acetone	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Benzene	110,000	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 10:13:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-005 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0012-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Chloroform	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Cyclohexane	590,000	40,000		ppbv	40000	4/8/2011 7:05:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Ethanol	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Ethylbenzene	16,000	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Heptane	640,000	40,000		ppbv	40000	4/8/2011 7:05:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
m,p-Xylene	39,000	16,000		ppbv	8000	4/7/2011 5:12:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
n-Hexane	400,000	40,000		ppbv	40000	4/8/2011 7:05:00 PM
o-Xylene	11,000	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Propylene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Styrene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Toluene	240,000	40,000		ppbv	40000	4/8/2011 7:05:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 10:13:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-005 **Matrix:** AIR

Client Sample ID SVMW-03-GS-VA0012-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/7/2011 5:12:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	8000	4/7/2011 5:12:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	31,000,000	4,700,000	H	µg/m³	40000	4/12/2011 3:52:00 AM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	H	µg/m³	40000	4/12/2011 3:52:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	10,000,000	H	µg/m³	40000	4/12/2011 3:52:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	H	%REC	40000	4/12/2011 3:52:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 12:59:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-006 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0022-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.9	0.30	H	%	1	3/29/2011 6:26:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 6:26:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 6:26:00 AM
Nitrogen	78	1.4	H	%	1	3/29/2011 6:26:00 AM
Oxygen	18	0.080	H	%	1	3/29/2011 6:26:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Acetone	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Benzene	14,000	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: **1103609**

Date Reported: **4/15/2011**

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 12:59:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-006 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0022-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Chloroform	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Cyclohexane	29,000	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Ethanol	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Ethylbenzene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Heptane	43,000	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
m,p-Xylene	20,000	16,000		ppbv	8000	4/6/2011 5:46:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
n-Hexane	19,000	8,000		ppbv	8000	4/6/2011 5:46:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Propylene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Styrene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Toluene	72,000	8,000		ppbv	8000	4/6/2011 5:46:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 12:59:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-006 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0022-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/6/2011 5:46:00 AM
Surr: 4-Bromofluorobenzene	99.6	70-130		%REC	8000	4/6/2011 5:46:00 AM
MASS APH AIR **AIR-PHASE PETROLEUM HYDROCARBONS**				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,800,000	470,000	H	µg/m³	4000	4/12/2011 4:33:00 AM
C9-C10 Aromatic Hydrocarbons	ND	530,000	H	µg/m³	4000	4/12/2011 4:33:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000	H	µg/m³	4000	4/12/2011 4:33:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	4000	4/12/2011 4:33:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 1:30:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-007 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0023-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	ND	0.30	H	%	1	3/29/2011 7:35:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/29/2011 7:35:00 AM
Methane	ND	0.090	H	%	1	3/29/2011 7:35:00 AM
Nitrogen	76	1.4	H	%	1	3/29/2011 7:35:00 AM
Oxygen	21	0.080	H	%	1	3/29/2011 7:35:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Acetone	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Benzene	13,000	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 1:30:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-007 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0023-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Chloroform	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Cyclohexane	34,000	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Ethanol	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Ethylbenzene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Heptane	37,000	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
m,p-Xylene	ND	16,000		ppbv	8000	4/6/2011 6:31:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
n-Hexane	24,000	8,000		ppbv	8000	4/6/2011 6:31:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Propylene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Styrene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Toluene	47,000	8,000		ppbv	8000	4/6/2011 6:31:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 1:30:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-007 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0023-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/6/2011 6:31:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	8000	4/6/2011 6:31:00 AM
MASS APH AIR **AIR-PHASE PETROLEUM HYDROCARBONS**				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,700,000	940,000	H	µg/m³	8000	4/12/2011 5:14:00 AM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/12/2011 5:14:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/12/2011 5:14:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	H	%REC	8000	4/12/2011 5:14:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 2:03:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-008 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0024-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.2	0.30	H	%	1	3/30/2011 1:10:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 1:10:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 1:10:00 AM
Nitrogen	83	1.4	H	%	1	3/30/2011 1:10:00 AM
Oxygen	13	0.080	H	%	1	3/30/2011 1:10:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Acetone	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Benzene	450,000	80,000	H	ppbv	80000	4/7/2011 1:39:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 2:03:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-008 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0024-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
Bromoform	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Chloroform	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Cyclohexane	590,000	80,000	H	ppbv	80000	4/7/2011 1:39:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Ethanol	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Ethylbenzene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Heptane	190,000	80,000	H	ppbv	80000	4/7/2011 1:39:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
m,p-Xylene	21,000	16,000		ppbv	8000	4/6/2011 7:15:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
n-Hexane	620,000	80,000	H	ppbv	80000	4/7/2011 1:39:00 AM
o-Xylene	8,600	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Propylene	25,000	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Styrene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Toluene	170,000	80,000	H	ppbv	80000	4/7/2011 1:39:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 2:03:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-008 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0024-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/6/2011 7:15:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	8000	4/6/2011 7:15:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	46,000,000	9,400,000	H	µg/m³	80000	4/12/2011 1:22:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/12/2011 1:22:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/12/2011 1:22:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	80000	4/12/2011 1:22:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 2:36:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-009 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0025-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.73	0.30	H	%	1	3/30/2011 1:30:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 1:30:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 1:30:00 AM
Nitrogen	81	1.4	H	%	1	3/30/2011 1:30:00 AM
Oxygen	16	0.080	H	%	1	3/30/2011 1:30:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Acetone	10,000	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Benzene	330,000	80,000	H	ppbv	80000	4/7/2011 2:21:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 2:36:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-009 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0025-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Chloroform	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Cyclohexane	560,000	80,000	H	ppbv	80000	4/7/2011 2:21:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Ethanol	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Ethylbenzene	15,000	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Heptane	240,000	80,000	H	ppbv	80000	4/7/2011 2:21:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
m,p-Xylene	28,000	16,000		ppbv	8000	4/6/2011 7:59:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
n-Hexane	570,000	80,000	H	ppbv	80000	4/7/2011 2:21:00 AM
o-Xylene	9,000	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Propylene	34,000	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Styrene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Toluene	510,000	80,000	H	ppbv	80000	4/7/2011 2:21:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM

Qualifiers:

*,X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 2:36:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-009 **Matrix:** AIR

Client Sample ID SVMW-06-GS-VA0025-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/6/2011 7:59:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	8000	4/6/2011 7:59:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	41,000,000	9,400,000	H	µg/m³	80000	4/12/2011 2:44:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/12/2011 2:44:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/12/2011 2:44:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	80000	4/12/2011 2:44:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 1:12:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-010 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0030-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: MB
Carbon dioxide	8.4	0.30	H	%	1	3/30/2011 2:30:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 2:30:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 2:30:00 AM
Nitrogen	85	1.4	H	%	1	3/30/2011 2:30:00 AM
Oxygen	4.0	0.080	H	%	1	3/30/2011 2:30:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Acetone	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Benzene	420,000	80,000		ppbv	80000	4/8/2011 9:50:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
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RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 1:12:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-010 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0030-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Chloroform	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Cyclohexane	1,200,000	80,000		ppbv	80000	4/8/2011 9:50:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Ethanol	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Ethylbenzene	20,000	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Heptane	540,000	80,000		ppbv	80000	4/8/2011 9:50:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
m,p-Xylene	42,000	16,000		ppbv	8000	4/7/2011 9:32:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
n-Hexane	1,300,000	80,000		ppbv	80000	4/8/2011 9:50:00 PM
o-Xylene	14,000	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Propylene	23,000	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Styrene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Toluene	460,000	80,000		ppbv	80000	4/8/2011 9:50:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 1:12:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-010 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0030-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/7/2011 9:32:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	8000	4/7/2011 9:32:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	64,000,000	9,400,000	H	µg/m³	80000	4/12/2011 3:24:00 PM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/12/2011 3:24:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/12/2011 3:24:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	80000	4/12/2011 3:24:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 1:46:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-011 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0031-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	8.0	0.30	H	%	1	3/30/2011 3:04:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 3:04:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 3:04:00 AM
Nitrogen	83	1.4	H	%	1	3/30/2011 3:04:00 AM
Oxygen	7.2	0.080	H	%	1	3/30/2011 3:04:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,3-Butadiene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
1,4-Dioxane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
2-Butanone	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
2-Hexanone	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
2-Propanol	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Acetone	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Benzene	36,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Bromodichloromethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 1:46:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-011 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0031-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Bromomethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Carbon disulfide	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Chlorobenzene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Chloroethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Chloroform	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Chloromethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Cyclohexane	72,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Ethanol	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Ethyl acetate	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Ethylbenzene	16,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Heptane	66,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
m,p-Xylene	38,000	16,000		ppbv	8000	4/7/2011 10:30:00 PM
Methylene chloride	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Naphthalene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
n-Hexane	44,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
o-Xylene	13,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Propylene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Styrene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Tetrachloroethene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Toluene	110,000	8,000		ppbv	8000	4/7/2011 10:30:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Trichloroethene	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Vinyl acetate	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 1:46:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-011 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0031-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/7/2011 10:30:00 PM
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	8000	4/7/2011 10:30:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	4,400,000	940,000	H	µg/m³	8000	4/12/2011 4:05:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/12/2011 4:05:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/12/2011 4:05:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	8000	4/12/2011 4:05:00 PM

Qualifiers:					
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 2:26:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-012 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0032-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.51	0.30	H	%	1	3/30/2011 3:32:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 3:32:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 3:32:00 AM
Nitrogen	78	1.4	H	%	1	3/30/2011 3:32:00 AM
Oxygen	20	0.080	H	%	1	3/30/2011 3:32:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,3-Butadiene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
1,4-Dioxane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
2-Butanone	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
2-Hexanone	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
2-Propanol	11,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Acetone	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Benzene	32,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Bromodichloromethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
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Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 2:26:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-012 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0032-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Bromomethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Carbon disulfide	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Chlorobenzene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Chloroethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Chloroform	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Chloromethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Cyclohexane	28,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Ethanol	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Ethyl acetate	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Ethylbenzene	8,100	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Heptane	23,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
m,p-Xylene	19,000	16,000		ppbv	8000	4/7/2011 11:49:00 PM
Methylene chloride	9,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Naphthalene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
n-Hexane	19,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
o-Xylene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Propylene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Styrene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Tetrachloroethene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Toluene	47,000	8,000		ppbv	8000	4/7/2011 11:49:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Trichloroethene	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Vinyl acetate	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 2:26:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-012 **Matrix:** AIR

Client Sample ID SVMW-08-GS-VA0032-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/7/2011 11:49:00 PM
Surr: 4-Bromofluorobenzene	98.8	70-130		%REC	8000	4/7/2011 11:49:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,300,000	470,000	H	µg/m³	4000	4/12/2011 4:46:00 PM
C9-C10 Aromatic Hydrocarbons	ND	530,000	H	µg/m³	4000	4/12/2011 4:46:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000	H	µg/m³	4000	4/12/2011 4:46:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	4000	4/12/2011 4:46:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 10:03:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-013 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0034-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: MB
Carbon dioxide	8.3	0.30	H	%	1	3/30/2011 4:02:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 4:02:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 4:02:00 AM
Nitrogen	83	1.4	H	%	1	3/30/2011 4:02:00 AM
Oxygen	6.3	0.080	H	%	1	3/30/2011 4:02:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Benzene	180,000	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 10:03:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-013 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0034-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Cyclohexane	570,000	40,000		ppbv	40000	4/8/2011 10:31:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Ethylbenzene	9,000	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Heptane	210,000	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
m,p-Xylene	19,000	16,000		ppbv	8000	4/8/2011 12:29:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
n-Hexane	270,000	8,000		ppbv	8000	4/8/2011 12:29:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Propylene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Toluene	100,000	8,000		ppbv	8000	4/8/2011 12:29:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 10:03:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-013 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0034-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 12:29:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	8000	4/8/2011 12:29:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	150,000,000	19,000,000	H	µg/m³	160000	4/12/2011 5:27:00 PM
C9-C10 Aromatic Hydrocarbons	ND	21,000,000	H	µg/m³	160000	4/12/2011 5:27:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	40,000,000	H	µg/m³	160000	4/12/2011 5:27:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	160000	4/12/2011 5:27:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 10:43:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-014 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0035-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: MB
Carbon dioxide	9.1	0.30	H	%	1	3/30/2011 4:30:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 4:30:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 4:30:00 AM
Nitrogen	85	1.4	H	%	1	3/30/2011 4:30:00 AM
Oxygen	3.5	0.080	H	%	1	3/30/2011 4:30:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Benzene	1,300,000	160,000		ppbv	160000	4/8/2011 11:12:00 PM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 10:43:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-014 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0035-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Cyclohexane	4,100,000	160,000		ppbv	160000	4/8/2011 11:12:00 PM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Ethylbenzene	35,000	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Heptane	2,100,000	160,000		ppbv	160000	4/8/2011 11:12:00 PM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
m,p-Xylene	72,000	16,000		ppbv	8000	4/8/2011 1:09:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
n-Hexane	3,700,000	160,000		ppbv	160000	4/8/2011 11:12:00 PM
o-Xylene	21,000	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Propylene	37,000	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Toluene	1,600,000	160,000		ppbv	160000	4/8/2011 11:12:00 PM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: **1103609**

Date Reported: **4/15/2011**

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 10:43:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-014 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0035-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 1:09:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	8000	4/8/2011 1:09:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	86,000,000	4,700,000	H	µg/m³	40000	4/12/2011 6:09:00 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	H	µg/m³	40000	4/12/2011 6:09:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	10,000,000	H	µg/m³	40000	4/12/2011 6:09:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	H	%REC	40000	4/12/2011 6:09:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 9:11:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-015 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0036-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: MB
Carbon dioxide	0.75	0.30	H	%	1	3/30/2011 5:11:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 5:11:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 5:11:00 AM
Nitrogen	79	1.4	H	%	1	3/30/2011 5:11:00 AM
Oxygen	19	0.080	H	%	1	3/30/2011 5:11:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
1,1,1-Trichloroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,1,2,2-Tetrachloroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,1,2-Trichloroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,1-Dichloroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,1-Dichloroethene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,2,4-Trichlorobenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,2,4-Trimethylbenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,2-Dibromoethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,2-Dichlorobenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,2-Dichloroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,2-Dichloropropane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,3,5-Trimethylbenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,3-Butadiene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,3-Dichlorobenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,4-Dichlorobenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
1,4-Dioxane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
2-Butanone	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
2-Hexanone	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
2-Propanol	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
4-Ethyltoluene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
4-Methyl-2-pentanone	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Acetone	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Benzene	44,000	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Benzyl chloride	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Bromodichloromethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 9:11:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-015 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0036-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
Bromoform	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Bromomethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Carbon disulfide	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Carbon tetrachloride	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Chlorobenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Chlorodibromomethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Chloroethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Chloroform	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Chloromethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
cis-1,2-Dichloroethene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
cis-1,3-dichloropropene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Cyclohexane	66,000	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Dichlorodifluoromethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Ethanol	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Ethyl acetate	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Ethylbenzene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Heptane	48,000	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Hexachlorobutadiene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
m,p-Xylene	8,200	8,000		ppbv	4000	4/8/2011 11:54:00 PM
Methylene chloride	5,100	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Naphthalene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
n-Hexane	72,000	4,000		ppbv	4000	4/8/2011 11:54:00 PM
o-Xylene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Propylene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Styrene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
tert-Butyl Methyl Ether	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Tetrachloroethene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Tetrahydrofuran	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Toluene	60,000	4,000		ppbv	4000	4/8/2011 11:54:00 PM
trans-1,2-Dichloroethene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
trans-1,3-dichloropropene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Trichloroethene	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Trichlorofluoromethane	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Vinyl acetate	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 9:11:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-015 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0036-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	4,000		ppbv	4000	4/8/2011 11:54:00 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%REC	4000	4/8/2011 11:54:00 PM
MASS APH AIR **AIR-PHASE PETROLEUM HYDROCARBONS**				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	2,600,000	470,000	H	µg/m³	4000	4/12/2011 6:54:00 PM
C9-C10 Aromatic Hydrocarbons	ND	530,000	H	µg/m³	4000	4/12/2011 6:54:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000	H	µg/m³	4000	4/12/2011 6:54:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	H	%REC	4000	4/12/2011 6:54:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 11:21:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-016 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0037-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.19	0.30	JH	%	1	3/30/2011 6:07:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 6:07:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 6:07:00 AM
Nitrogen	78	1.4	H	%	1	3/30/2011 6:07:00 AM
Oxygen	21	0.080	H	%	1	3/30/2011 6:07:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,2,4-Trimethylbenzene	9,200	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Benzene	86,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 11:21:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-016 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0037-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: RH3
Bromoform	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Cyclohexane	140,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Ethylbenzene	51,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Heptane	150,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
m,p-Xylene	100,000	16,000		ppbv	8000	4/8/2011 2:30:00 AM
Methylene chloride	14,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
n-Hexane	90,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
o-Xylene	34,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Propylene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Toluene	310,000	8,000		ppbv	8000	4/8/2011 2:30:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/10/2011 11:21:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-016 **Matrix:** AIR

Client Sample ID SVMW-09-GS-VA0037-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 2:30:00 AM
Surr: 4-Bromofluorobenzene	98.7	70-130		%REC	8000	4/8/2011 2:30:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	8,400,000	1,900,000	H	µg/m³	16000	4/12/2011 7:34:00 PM
C9-C10 Aromatic Hydrocarbons	ND	2,100,000	H	µg/m³	16000	4/12/2011 7:34:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	4,000,000	H	µg/m³	16000	4/12/2011 7:34:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	16000	4/12/2011 7:34:00 PM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 2:33:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-017 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0041-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.85	0.30	H	%	1	3/30/2011 6:30:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/30/2011 6:30:00 AM
Methane	ND	0.090	H	%	1	3/30/2011 6:30:00 AM
Nitrogen	79	1.4	H	%	1	3/30/2011 6:30:00 AM
Oxygen	19	0.080	H	%	1	3/30/2011 6:30:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,1,2,2-Tetrachloroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,1,2-Trichloroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,1-Dichloroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,1-Dichloroethene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,2,4-Trichlorobenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,2,4-Trimethylbenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,2-Dibromoethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,2-Dichlorobenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,2-Dichloroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,2-Dichloropropane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,3,5-Trimethylbenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,3-Butadiene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,3-Dichlorobenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,4-Dichlorobenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
1,4-Dioxane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
2-Butanone	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
2-Hexanone	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
2-Propanol	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
4-Ethyltoluene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
4-Methyl-2-pentanone	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Acetone	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Benzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Benzyl chloride	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Bromodichloromethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 2:33:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-017 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0041-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Bromomethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Carbon disulfide	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Carbon tetrachloride	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Chlorobenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Chlorodibromomethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Chloroethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Chloroform	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Chloromethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
cis-1,2-Dichloroethene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
cis-1,3-dichloropropene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Cyclohexane	6,600	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Dichlorodifluoromethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Ethanol	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Ethyl acetate	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Ethylbenzene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Heptane	8,500	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Hexachlorobutadiene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
m,p-Xylene	ND	8,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Methylene chloride	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Naphthalene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
n-Hexane	6,800	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
o-Xylene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Propylene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Styrene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
tert-Butyl Methyl Ether	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Tetrachloroethene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Tetrahydrofuran	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Toluene	7,400	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
trans-1,2-Dichloroethene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
trans-1,3-dichloropropene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Trichloroethene	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Trichlorofluoromethane	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Vinyl acetate	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 2:33:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-017 **Matrix:** AIR

Client Sample ID SVMW-10-GS-VA0041-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	4,000	H	ppbv	4000	4/7/2011 12:56:00 AM
Surr: 4-Bromofluorobenzene	99.3	70-130	H	%REC	4000	4/7/2011 12:56:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	210,000	120,000	H	µg/m³	1000	4/14/2011 12:35:00 PM
C9-C10 Aromatic Hydrocarbons	ND	130,000	H	µg/m³	1000	4/14/2011 12:35:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	250,000	H	µg/m³	1000	4/14/2011 12:35:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	1000	4/14/2011 12:35:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-018 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0051-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.36	0.30	H	%	1	3/31/2011 2:38:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 2:38:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 2:38:00 AM
Nitrogen	80	1.4	H	%	1	3/31/2011 2:38:00 AM
Oxygen	18	0.080	H	%	1	3/31/2011 2:38:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Benzene	110,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-018 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0051-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Cyclohexane	230,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Ethylbenzene	13,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Heptane	140,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
m,p-Xylene	29,000	16,000		ppbv	8000	4/8/2011 3:10:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
n-Hexane	250,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
o-Xylene	8,800	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Propylene	16,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Toluene	220,000	8,000		ppbv	8000	4/8/2011 3:10:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-018 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0051-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 3:10:00 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%REC	8000	4/8/2011 3:10:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	18,000,000	4,700,000	H	µg/m³	40000	4/12/2011 8:55:00 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	H	µg/m³	40000	4/12/2011 8:55:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	10,000,000	H	µg/m³	40000	4/12/2011 8:55:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	40000	4/12/2011 8:55:00 PM

Qualifiers:					
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:22:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-019 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0052-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.46	0.30	H	%	1	3/31/2011 2:59:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 2:59:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 2:59:00 AM
Nitrogen	80	1.4	H	%	1	3/31/2011 2:59:00 AM
Oxygen	17	0.080	H	%	1	3/31/2011 2:59:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Benzene	18,000	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:22:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-019 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0052-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Cyclohexane	44,000	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Ethylbenzene	9,300	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Heptane	43,000	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
m,p-Xylene	22,000	16,000		ppbv	8000	4/8/2011 3:50:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
n-Hexane	27,000	8,000		ppbv	8000	4/8/2011 3:50:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Propylene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Toluene	51,000	8,000		ppbv	8000	4/8/2011 3:50:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:22:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-019 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0052-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 3:50:00 AM
Surr: 4-Bromofluorobenzene	98.1	70-130		%REC	8000	4/8/2011 3:50:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,800,000	940,000	H	µg/m³	8000	4/12/2011 9:37:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/12/2011 9:37:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/12/2011 9:37:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	8000	4/12/2011 9:37:00 PM

Qualifiers:					
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:47:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-020 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0053-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.3	0.30	H	%	1	3/31/2011 3:27:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 3:27:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 3:27:00 AM
Nitrogen	80	1.4	H	%	1	3/31/2011 3:27:00 AM
Oxygen	17	0.080	H	%	1	3/31/2011 3:27:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Benzene	30,000	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:47:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-020 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0053-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Cyclohexane	100,000	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Ethylbenzene	10,000	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Heptane	80,000	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
m,p-Xylene	23,000	16,000		ppbv	8000	4/8/2011 4:30:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
n-Hexane	57,000	8,000		ppbv	8000	4/8/2011 4:30:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Propylene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Toluene	64,000	8,000		ppbv	8000	4/8/2011 4:30:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:47:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-020 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0053-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 4:30:00 AM
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	8000	4/8/2011 4:30:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	3,900,000	940,000	H	µg/m³	8000	4/12/2011 10:18:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/12/2011 10:18:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/12/2011 10:18:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	8000	4/12/2011 10:18:00 PM

Qualifiers:					
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:47:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-021 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0054-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.3	0.30	H	%	1	3/31/2011 3:50:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 3:50:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 3:50:00 AM
Nitrogen	79	1.4	H	%	1	3/31/2011 3:50:00 AM
Oxygen	17	0.080	H	%	1	3/31/2011 3:50:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Benzene	16,000	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:47:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-021 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0054-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Cyclohexane	38,000	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Ethylbenzene	9,000	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Heptane	37,000	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
m,p-Xylene	20,000	16,000		ppbv	8000	4/8/2011 5:11:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
n-Hexane	22,000	8,000		ppbv	8000	4/8/2011 5:11:00 AM
o-Xylene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Propylene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Toluene	42,000	8,000		ppbv	8000	4/8/2011 5:11:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 11:47:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-021 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0054-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 5:11:00 AM
Surr: 4-Bromofluorobenzene	96.2	70-130		%REC	8000	4/8/2011 5:11:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	1,400,000	940,000	H	µg/m³	8000	4/12/2011 10:59:00 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	H	µg/m³	8000	4/12/2011 10:59:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	2,000,000	H	µg/m³	8000	4/12/2011 10:59:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	H	%REC	8000	4/12/2011 10:59:00 PM

Qualifiers:					
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 12:28:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-022 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0055-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.42	0.30	H	%	1	3/31/2011 4:11:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 4:11:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 4:11:00 AM
Nitrogen	79	1.4	H	%	1	3/31/2011 4:11:00 AM
Oxygen	17	0.080	H	%	1	3/31/2011 4:11:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,1,2-Trichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,1-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,1-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,2,4-Trichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,2,4-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,2-Dibromoethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,2-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,2-Dichloroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,2-Dichloropropane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,3,5-Trimethylbenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,3-Butadiene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,3-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,4-Dichlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
1,4-Dioxane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
2-Butanone	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
2-Hexanone	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
2-Propanol	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
4-Ethyltoluene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
4-Methyl-2-pentanone	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Acetone	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Benzene	110,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Benzyl chloride	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Bromodichloromethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 12:28:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-022 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0055-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Bromomethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Carbon disulfide	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Carbon tetrachloride	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Chlorobenzene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Chlorodibromomethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Chloroethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Chloroform	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Chloromethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
cis-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
cis-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Cyclohexane	160,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Dichlorodifluoromethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Ethanol	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Ethyl acetate	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Ethylbenzene	11,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Heptane	77,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Hexachlorobutadiene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
m,p-Xylene	25,000	16,000		ppbv	8000	4/8/2011 5:51:00 AM
Methylene chloride	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Naphthalene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
n-Hexane	140,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
o-Xylene	8,600	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Propylene	15,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Styrene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
tert-Butyl Methyl Ether	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Tetrachloroethene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Tetrahydrofuran	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Toluene	94,000	8,000		ppbv	8000	4/8/2011 5:51:00 AM
trans-1,2-Dichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
trans-1,3-dichloropropene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Trichloroethene	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Trichlorofluoromethane	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Vinyl acetate	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/11/2011 12:28:00 PM

Project: Kirtland AFB 140705

Lab ID: 1103609-022 **Matrix:** AIR

Client Sample ID SVMW-13-GS-VA0055-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000		ppbv	8000	4/8/2011 5:51:00 AM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	8000	4/8/2011 5:51:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	16,000,000	1,900,000	H	µg/m³	16000	4/12/2011 11:39:00 PM
C9-C10 Aromatic Hydrocarbons	ND	2,100,000	H	µg/m³	16000	4/12/2011 11:39:00 PM
C9-C12 Aliphatic Hydrocarbons	ND	4,000,000	H	µg/m³	16000	4/12/2011 11:39:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	16000	4/12/2011 11:39:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 9:11:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-023 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0061-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.39	0.30	H	%	1	3/31/2011 4:46:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 4:46:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 4:46:00 AM
Nitrogen	81	1.4	H	%	1	3/31/2011 4:46:00 AM
Oxygen	17	0.080	H	%	1	3/31/2011 4:46:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,1,2,2-Tetrachloroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,1,2-Trichloroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,1-Dichloroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,1-Dichloroethene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,2,4-Trichlorobenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,2,4-Trimethylbenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,2-Dibromoethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,2-Dichlorobenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,2-Dichloroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,2-Dichloropropane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,3,5-Trimethylbenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,3-Butadiene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,3-Dichlorobenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,4-Dichlorobenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
1,4-Dioxane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
2-Butanone	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
2-Hexanone	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
2-Propanol	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
4-Ethyltoluene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
4-Methyl-2-pentanone	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Acetone	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Benzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Benzyl chloride	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Bromodichloromethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 9:11:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-023 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0061-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Bromomethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Carbon disulfide	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Carbon tetrachloride	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Chlorobenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Chlorodibromomethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Chloroethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Chloroform	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Chloromethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
cis-1,2-Dichloroethene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
cis-1,3-dichloropropene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Cyclohexane	9,200	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Dichlorodifluoromethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Ethanol	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Ethyl acetate	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Ethylbenzene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Heptane	10,000	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Hexachlorobutadiene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
m,p-Xylene	ND	8,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Methylene chloride	5,500	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Naphthalene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
n-Hexane	6,900	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
o-Xylene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Propylene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Styrene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
tert-Butyl Methyl Ether	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Tetrachloroethene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Tetrahydrofuran	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Toluene	18,000	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
trans-1,2-Dichloroethene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
trans-1,3-dichloropropene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Trichloroethene	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Trichlorofluoromethane	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Vinyl acetate	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 9:11:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-023 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0061-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	4,000	H	ppbv	4000	4/8/2011 1:36:00 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	H	%REC	4000	4/8/2011 1:36:00 PM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	350,000	190,000	H	µg/m³	1600	4/13/2011 12:22:00 AM
C9-C10 Aromatic Hydrocarbons	ND	210,000	H	µg/m³	1600	4/13/2011 12:22:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	400,000	H	µg/m³	1600	4/13/2011 12:22:00 AM
Surr: 4-Bromofluorobenzene	104	70-130	H	%REC	1600	4/13/2011 12:22:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 9:43:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-024 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0062-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.31	0.30	H	%	1	3/31/2011 5:07:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 5:07:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 5:07:00 AM
Nitrogen	78	1.4	H	%	1	3/31/2011 5:07:00 AM
Oxygen	18	0.080	H	%	1	3/31/2011 5:07:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,3-Butadiene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
1,4-Dioxane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
2-Butanone	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
2-Hexanone	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
2-Propanol	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
4-Ethyltoluene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Acetone	62	40	H	ppbv	40	4/9/2011 4:03:00 AM
Benzene	300	40	H	ppbv	40	4/9/2011 4:03:00 AM
Benzyl chloride	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Bromodichloromethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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J	Estimated concentration	M	Manual Integration used to determine area response
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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 9:43:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-024 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0062-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				TO-15M		Analyst: RH3
Bromoform	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Bromomethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Carbon disulfide	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Carbon tetrachloride	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Chlorobenzene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Chlorodibromomethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Chloroethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Chloroform	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Chloromethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Cyclohexane	370	40	H	ppbv	40	4/9/2011 4:03:00 AM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Ethanol	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Ethyl acetate	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Ethylbenzene	59	40	H	ppbv	40	4/9/2011 4:03:00 AM
Heptane	480	40	H	ppbv	40	4/9/2011 4:03:00 AM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
m,p-Xylene	160	80	H	ppbv	40	4/9/2011 4:03:00 AM
Methylene chloride	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Naphthalene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
n-Hexane	220	40	H	ppbv	40	4/9/2011 4:03:00 AM
o-Xylene	47	40	H	ppbv	40	4/9/2011 4:03:00 AM
Propylene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Styrene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Tetrachloroethene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Tetrahydrofuran	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Toluene	1,100	40	H	ppbv	40	4/9/2011 4:03:00 AM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Trichloroethene	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Vinyl acetate	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 9:43:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-024 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0062-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	40	H	ppbv	40	4/9/2011 4:03:00 AM
Surr: 4-Bromofluorobenzene	98.8	70-130	H	%REC	40	4/9/2011 4:03:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	37,000	0	H	µg/m³	400	4/13/2011 1:06:00 AM
C9-C10 Aromatic Hydrocarbons	2,200	0	H	µg/m³	400	4/13/2011 1:06:00 AM
C9-C12 Aliphatic Hydrocarbons	18,000	0	H	µg/m³	400	4/13/2011 1:06:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	400	4/13/2011 1:06:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:16:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-025 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0063-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.37	0.30	H	%	1	3/31/2011 5:27:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 5:27:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 5:27:00 AM
Nitrogen	81	1.4	H	%	1	3/31/2011 5:27:00 AM
Oxygen	15	0.080	H	%	1	3/31/2011 5:27:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Acetone	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Benzene	260,000	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:16:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-025 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0063-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Cyclohexane	1,300,000	80,000	H	ppbv	80000	4/9/2011 11:34:00 AM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Ethylbenzene	14,000	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Heptane	640,000	80,000	H	ppbv	80000	4/9/2011 11:34:00 AM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
m,p-Xylene	27,000	16,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Methylene chloride	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
n-Hexane	1,400,000	80,000	H	ppbv	80000	4/9/2011 11:34:00 AM
o-Xylene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Propylene	63,000	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Toluene	380,000	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:16:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-025 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0063-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/8/2011 9:28:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	H	%REC	8000	4/8/2011 9:28:00 AM
MASS APH AIR **AIR-PHASE PETROLEUM HYDROCARBONS**				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	62,000,000	9,400,000	H	µg/m³	80000	4/13/2011 1:47:00 AM
C9-C10 Aromatic Hydrocarbons	ND	11,000,000	H	µg/m³	80000	4/13/2011 1:47:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000	H	µg/m³	80000	4/13/2011 1:47:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	H	%REC	80000	4/13/2011 1:47:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Estimated concentration
ND	Not Detected at the Reporting Limit
RL	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-026 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0064-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	1.0	0.30	H	%	1	3/31/2011 5:46:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 5:46:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 5:46:00 AM
Nitrogen	79	1.4	H	%	1	3/31/2011 5:46:00 AM
Oxygen	16	0.080	H	%	1	3/31/2011 5:46:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Acetone	11,000	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Benzene	1,200,000	160,000	H	ppbv	160000	4/9/2011 1:16:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-026 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0064-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Cyclohexane	3,300,000	160,000	H	ppbv	160000	4/9/2011 1:16:00 AM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Ethylbenzene	31,000	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Heptane	2,200,000	160,000	H	ppbv	160000	4/9/2011 1:16:00 AM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
m,p-Xylene	86,000	16,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Methylene chloride	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
n-Hexane	3,500,000	160,000	H	ppbv	160000	4/9/2011 1:16:00 AM
o-Xylene	21,000	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Propylene	32,000	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Toluene	1,600,000	160,000	H	ppbv	160000	4/9/2011 1:16:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-026 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0064-REG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/8/2011 10:08:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	8000	4/8/2011 10:08:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	100,000,000	19,000,000	H	µg/m³	160000	4/13/2011 2:28:00 AM
C9-C10 Aromatic Hydrocarbons	ND	21,000,000	H	µg/m³	160000	4/13/2011 2:28:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	40,000,000	H	µg/m³	160000	4/13/2011 2:28:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	H	%REC	160000	4/13/2011 2:28:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-027 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0065-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NONCONDENSABLE GASES AND LIGHT HYDROCARBONS				**ASTM-D2504**		Analyst: **MB**
Carbon dioxide	0.79	0.30	H	%	1	3/31/2011 6:05:00 AM
Carbon Monoxide	ND	0.14	H	%	1	3/31/2011 6:05:00 AM
Methane	ND	0.090	H	%	1	3/31/2011 6:05:00 AM
Nitrogen	78	1.4	H	%	1	3/31/2011 6:05:00 AM
Oxygen	17	0.080	H	%	1	3/31/2011 6:05:00 AM
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,1,2,2-Tetrachloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,1,2-Trichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,1-Dichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,1-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,2,4-Trichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,2,4-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,2-Dibromoethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,2-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,2-Dichloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,2-Dichloropropane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,3,5-Trimethylbenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,3-Butadiene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,3-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,4-Dichlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
1,4-Dioxane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
2-Butanone	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
2-Hexanone	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
2-Propanol	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
4-Ethyltoluene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
4-Methyl-2-pentanone	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Acetone	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Benzene	1,200,000	160,000	H	ppbv	160000	4/9/2011 1:58:00 AM
Benzyl chloride	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Bromodichloromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-027 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0065-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Bromoform	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Bromomethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Carbon disulfide	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Carbon tetrachloride	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Chlorobenzene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Chlorodibromomethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Chloroethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Chloroform	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Chloromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
cis-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
cis-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Cyclohexane	3,300,000	160,000	H	ppbv	160000	4/9/2011 1:58:00 AM
Dichlorodifluoromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Ethanol	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Ethyl acetate	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Ethylbenzene	32,000	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Heptane	2,200,000	160,000	H	ppbv	160000	4/9/2011 1:58:00 AM
Hexachlorobutadiene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
m,p-Xylene	89,000	16,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Methylene chloride	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Naphthalene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
n-Hexane	3,600,000	160,000	H	ppbv	160000	4/9/2011 1:58:00 AM
o-Xylene	21,000	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Propylene	37,000	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Styrene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
tert-Butyl Methyl Ether	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Tetrachloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Tetrahydrofuran	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Toluene	1,600,000	160,000	H	ppbv	160000	4/9/2011 1:58:00 AM
trans-1,2-Dichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
trans-1,3-dichloropropene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Trichloroethene	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Trichlorofluoromethane	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Vinyl acetate	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/7/2011 10:54:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-027 **Matrix:** AIR

Client Sample ID SVMW-15-GS-VA0065-FD

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Vinyl chloride	ND	8,000	H	ppbv	8000	4/8/2011 10:49:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	8000	4/8/2011 10:49:00 AM
MASS APH AIR AIR-PHASE PETROLEUM HYDROCARBONS				**MA_APH**		Analyst: **MT3**
C5-C8 Aliphatic Hydrocarbons	110,000,000	19,000,000	H	µg/m³	160000	4/13/2011 3:09:00 AM
C9-C10 Aromatic Hydrocarbons	ND	21,000,000	H	µg/m³	160000	4/13/2011 3:09:00 AM
C9-C12 Aliphatic Hydrocarbons	ND	40,000,000	H	µg/m³	160000	4/13/2011 3:09:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	H	%REC	160000	4/13/2011 3:09:00 AM

Qualifiers:				
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 8:00:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-028 **Matrix:** AIR

Client Sample ID FIELDQC-AQ-VA8003-TB-TB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
1,1,1-Trichloroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,1,2,2-Tetrachloroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,1,2-Trichloroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,1-Dichloroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,1-Dichloroethene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,2,4-Trichlorobenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,2,4-Trimethylbenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,2-Dibromoethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,2-Dichlorobenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,2-Dichloroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,2-Dichloropropane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,3,5-Trimethylbenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,3-Butadiene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,3-Dichlorobenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,4-Dichlorobenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
1,4-Dioxane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
2-Butanone	100	40	H	ppbv	40	4/9/2011 2:40:00 AM
2-Hexanone	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
2-Propanol	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
4-Ethyltoluene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
4-Methyl-2-pentanone	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Acetone	520	40	H	ppbv	40	4/9/2011 2:40:00 AM
Benzene	400	40	H	ppbv	40	4/9/2011 2:40:00 AM
Benzyl chloride	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Bromodichloromethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Bromoform	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Bromomethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Carbon disulfide	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Carbon tetrachloride	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Chlorobenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Chlorodibromomethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Chloroethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Chloroform	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit	PL	Permit Limit
RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Analytical Report

(consolidated)

WO#: 1103609

Date Reported: 4/15/2011

CLIENT: Shaw Environmental & Infrastructure, Inc **Collection Date:** 3/3/2011 8:00:00 AM

Project: Kirtland AFB 140705

Lab ID: 1103609-028 **Matrix:** AIR

Client Sample ID FIELDQC-AQ-VA8003-TB-TB

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS				**TO-15M**		Analyst: **RH3**
Chloromethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
cis-1,2-Dichloroethene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
cis-1,3-dichloropropene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Cyclohexane	1,300	40	H	ppbv	40	4/9/2011 2:40:00 AM
Dichlorodifluoromethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Ethanol	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Ethyl acetate	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Ethylbenzene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Heptane	760	40	H	ppbv	40	4/9/2011 2:40:00 AM
Hexachlorobutadiene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
m,p-Xylene	ND	80	H	ppbv	40	4/9/2011 2:40:00 AM
Methylene chloride	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Naphthalene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
n-Hexane	1,400	40	H	ppbv	40	4/9/2011 2:40:00 AM
o-Xylene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Propylene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Styrene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
tert-Butyl Methyl Ether	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Tetrachloroethene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Tetrahydrofuran	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Toluene	650	40	H	ppbv	40	4/9/2011 2:40:00 AM
trans-1,2-Dichloroethene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
trans-1,3-dichloropropene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Trichloroethene	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Trichlorofluoromethane	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Vinyl acetate	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Vinyl chloride	ND	40	H	ppbv	40	4/9/2011 2:40:00 AM
Surr: 4-Bromofluorobenzene	95.2	70-130	H	%REC	40	4/9/2011 2:40:00 AM

Qualifiers:					
	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated concentration	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39564

Sample ID: lcs	SampType: LCS	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: ZZZZZZ	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751094

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.5	0.30	2.500	0	98.4	70	130				
Carbon Monoxide	2.5	0.14	2.500	0	100	70	130				
Methane	2.0	0.090	2.000	0	99.3	70	130				
Nitrogen	2.8	1.4	2.500	0	110	70	130				
Oxygen	2.4	0.080	2.500	0	96.2	70	130				

Sample ID: lcsd	SampType: LCSD	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: ZZZZZZ	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751095

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.4	0.30	2.500	0	97.1	70	130	2.459	1.27	20	
Carbon Monoxide	2.5	0.14	2.500	0	101	70	130	2.506	0.636	20	
Methane	2.0	0.090	2.000	0	99.9	70	130	1.986	0.552	20	
Nitrogen	3.1	1.4	2.500	0	123	70	130	2.751	11.4	20	
Oxygen	2.6	0.080	2.500	0	103	70	130	2.404	7.06	20	

Sample ID: mb	SampType: MBLK	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: ZZZZZZ	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751096

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30									
Carbon Monoxide	ND	0.14									
Methane	ND	0.090									
Nitrogen	ND	1.4									
Oxygen	ND	0.080									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39564

Sample ID: 1103609-006bdup SampType: DUP TestCode: ASTM-D2504 Units: % Prep Date: RunNo: 39564
Client ID: SVMW-06-GS-VA002 Batch ID: R39564 TestNo: ASTM-D2504 Analysis Date: 3/29/2011 SeqNo: 751103

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	1.9	0.30						1.912	0.574	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Ethane	ND	0.50						0	0	20	H
Hydrogen	ND	0.50						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	78	1.4						78.22	0.0396	20	H
Oxygen	18	0.080						17.51	0.0171	20	H

Sample ID: 1103609-017bdup SampType: DUP TestCode: ASTM-D2504 Units: % Prep Date: RunNo: 39565
Client ID: SVMW-10-GS-VA004 Batch ID: R39564 TestNo: ASTM-D2504 Analysis Date: 3/30/2011 SeqNo: 751120

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	0.86	0.30						0.8530	0.351	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Ethane	ND	0.50						0	0	20	H
Hydrogen	ND	0.50						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	79	1.4						78.72	0.396	20	H
Oxygen	19	0.080						18.57	0.382	20	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39564

Sample ID: lcs	SampType: LCS	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: ZZZZZZ	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751094

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.5	0.30	2.500	0	98.4	70	130				
Carbon Monoxide	2.5	0.14	2.500	0	100	70	130				
Methane	2.0	0.090	2.000	0	99.3	70	130				
Nitrogen	2.8	1.4	2.500	0	110	70	130				
Oxygen	2.4	0.080	2.500	0	96.2	70	130				

Sample ID: lcsd	SampType: LCSD	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: ZZZZZZ	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751095

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.4	0.30	2.500	0	97.1	70	130	2.459	1.27	20	
Carbon Monoxide	2.5	0.14	2.500	0	101	70	130	2.506	0.636	20	
Methane	2.0	0.090	2.000	0	99.9	70	130	1.986	0.552	20	
Nitrogen	3.1	1.4	2.500	0	123	70	130	2.751	11.4	20	
Oxygen	2.6	0.080	2.500	0	103	70	130	2.404	7.06	20	

Sample ID: mb	SampType: MBLK	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: ZZZZZZ	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751096

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30									
Carbon Monoxide	ND	0.14									
Methane	ND	0.090									
Nitrogen	ND	1.4									
Oxygen	ND	0.080									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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Livonia, MI 48150
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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39564

Sample ID: 1103609-006bdup	SampType: DUP	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39564
Client ID: SVMW-06-GS-VA002	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/29/2011	SeqNo: 751103

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	1.9	0.30						1.912	0.574	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Ethane	ND	0.50						0	0	20	H
Hydrogen	ND	0.50						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	78	1.4						78.22	0.0396	20	H
Oxygen	18	0.080						17.51	0.0171	20	H

Sample ID: 1103609-017bdup	SampType: DUP	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39565
Client ID: SVMW-10-GS-VA004	Batch ID: R39564	TestNo: ASTM-D2504		Analysis Date: 3/30/2011	SeqNo: 751120

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	0.86	0.30						0.8530	0.351	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Ethane	ND	0.50						0	0	20	H
Hydrogen	ND	0.50						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	79	1.4						78.72	0.396	20	H
Oxygen	19	0.080						18.57	0.382	20	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39566

Sample ID: lcs	SampType: LCS	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39566
Client ID: ZZZZZZ	Batch ID: R39566	TestNo: ASTM-D2504		Analysis Date: 3/31/2011	SeqNo: 751127

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.3	0.30	2.500	0	91.6	70	130				
Carbon Monoxide	2.5	0.14	2.500	0	99.1	70	130				
Methane	2.0	0.090	2.000	0	97.8	70	130				
Nitrogen	2.8	1.4	2.500	0	114	70	130				
Oxygen	2.4	0.080	2.500	0	97.8	70	130				

Sample ID: lcsd	SampType: LCSD	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39566
Client ID: ZZZZZZ	Batch ID: R39566	TestNo: ASTM-D2504		Analysis Date: 3/31/2011	SeqNo: 751128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	2.3	0.30	2.500	0	90.1	70	130	2.291	1.72	20	
Carbon Monoxide	2.5	0.14	2.500	0	98.4	70	130	2.477	0.648	20	
Methane	1.9	0.090	2.000	0	97.2	70	130	1.955	0.564	20	
Nitrogen	2.9	1.4	2.500	0	117	70	130	2.838	2.95	20	
Oxygen	2.5	0.080	2.500	0	99.2	70	130	2.446	1.38	20	

Sample ID: mb	SampType: MBLK	TestCode: ASTM-D2504	Units: %	Prep Date:	RunNo: 39566
Client ID: ZZZZZZ	Batch ID: R39566	TestNo: ASTM-D2504		Analysis Date: 3/31/2011	SeqNo: 751129

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.30									
Carbon Monoxide	ND	0.14									
Methane	ND	0.090									
Nitrogen	ND	1.4									
Oxygen	ND	0.080									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39566

Sample ID: **1103609-027bdup** SampType: **DUP** TestCode: **ASTM-D2504** Units: **%** Prep Date: RunNo: **39566**

Client ID: **SVMW-15-GS-VA006** Batch ID: **R39566** TestNo: **ASTM-D2504** Analysis Date: **3/31/2011** SeqNo: **751140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon dioxide	0.80	0.30						0.7910	0.504	20	H
Carbon Monoxide	ND	0.14						0	0	20	H
Ethane	ND	0.50						0	0	20	H
Hydrogen	ND	0.50						0	0	20	H
Methane	ND	0.090						0	0	20	H
Nitrogen	78	1.4						77.64	0.751	20	H
Oxygen	17	0.080						17.06	0.730	20	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39639

Sample ID: MBLK SampType: MBLK TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639

Client ID: ZZZZZZ Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752963

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705

BatchID: R39639

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39639**

Client ID: **ZZZZZZ** Batch ID: **R39639** TestNo: **TO-15M** Analysis Date: **4/5/2011** SeqNo: **752963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39639

Sample ID: MBLK SampType: MBLK TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639
Client ID: ZZZZZZ Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752963

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	12		12.50		94.2	70	130				

Sample ID: 1103389-010BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639
Client ID: ZZZZZZ Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	80,000						0	0	25	H
1,1,2,2-Tetrachloroethane	ND	80,000						0	0	25	H
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	80,000						0	0	25	H
1,1,2-Trichloroethane	ND	80,000						0	0	25	H
1,1-Dichloroethane	ND	80,000						0	0	25	H
1,1-Dichloroethene	ND	80,000						0	0	25	H
1,2,4-Trichlorobenzene	ND	80,000						0	0	25	H
1,2,4-Trimethylbenzene	ND	80,000						0	0	25	H
1,2-Dibromoethane	ND	80,000						0	0	25	H
1,2-Dichlorobenzene	ND	80,000						0	0	25	H
1,2-Dichloroethane	ND	80,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39639

Sample ID: 1103389-010BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639

Client ID: ZZZZZZ Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	80,000						0	0	25	H
1,3,5-Trimethylbenzene	ND	80,000						0	0	25	H
1,3-Butadiene	ND	80,000						0	0	25	H
1,3-Dichlorobenzene	ND	80,000						0	0	25	H
1,4-Dichlorobenzene	ND	80,000						0	0	25	H
1,4-Dioxane	ND	80,000						0	0	25	H
2-Butanone	ND	80,000						0	0	25	H
2-Hexanone	ND	80,000						0	0	25	H
2-Propanol	ND	80,000						0	0	25	H
4-Ethyltoluene	ND	80,000						0	0	25	H
4-Methyl-2-pentanone	ND	80,000						0	0	25	H
Acetone	ND	80,000						0	0	25	H
Benzene	320,000	80,000						316,000	0	25	H
Benzyl chloride	ND	80,000						0	0	25	H
Bromodichloromethane	ND	80,000						0	0	25	H
Bromoform	ND	80,000						0	0	25	H
Bromomethane	ND	80,000						0	0	25	H
Carbon disulfide	ND	80,000						0	0	25	H
Carbon tetrachloride	ND	80,000						0	0	25	H
Chlorobenzene	ND	80,000						0	0	25	H
Chlorodibromomethane	ND	80,000						0	0	25	H
Chloroethane	ND	80,000						0	0	25	H
Chloroform	ND	80,000						0	0	25	H
Chloromethane	ND	80,000						0	0	25	H
cis-1,2-Dichloroethene	ND	80,000						0	0	25	H
cis-1,3-dichloropropene	ND	80,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39639

Sample ID: 1103389-010BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39639

Client ID: ZZZZZZ Batch ID: R39639 TestNo: TO-15M Analysis Date: 4/5/2011 SeqNo: 752965

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	1,200,000	80,000						1,263,000	3.22	25	H
Dichlorodifluoromethane	ND	80,000						0	0	25	H
Ethanol	ND	80,000						0	0	25	H
Ethyl acetate	ND	80,000						0	0	25	H
Ethylbenzene	ND	80,000						0	0	25	H
Heptane	610,000	80,000						608,000	0.656	25	H
Hexachlorobutadiene	ND	80,000						0	0	25	H
m,p-Xylene	ND	160,000						0	0	25	H
Methylene chloride	ND	80,000						0	0	25	H
Naphthalene	ND	80,000						0	0	25	H
n-Hexane	1,200,000	80,000						1,239,000	5.23	25	H
o-Xylene	ND	80,000						0	0	25	H
Propylene	ND	80,000						0	0	25	H
Styrene	ND	80,000						0	0	25	H
tert-Butyl Methyl Ether	ND	80,000						0	0	25	H
Tetrachloroethene	ND	80,000						0	0	25	H
Tetrahydrofuran	ND	80,000						0	0	25	H
Toluene	440,000	80,000						436,800	1.45	25	H
trans-1,2-Dichloroethene	ND	80,000						0	0	25	H
trans-1,3-dichloropropene	ND	80,000						0	0	25	H
Trichloroethene	ND	80,000						0	0	25	H
Trichlorofluoromethane	ND	80,000						0	0	25	H
Vinyl acetate	ND	80,000						0	0	25	H
Vinyl chloride	ND	80,000						0	0	25	H
Surr: 4-Bromofluorobenzene	970,000		1,000,000		96.7	70	130		0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39665

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39665**

Client ID: **ZZZZZZ** Batch ID: **R39665** TestNo: **TO-15M** Analysis Date: **4/6/2011** SeqNo: **753230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39665

Sample ID: MBLK SampType: MBLK TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39665

Client ID: ZZZZZZ Batch ID: R39665 TestNo: TO-15M Analysis Date: 4/6/2011 SeqNo: 753230

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39665

Sample ID: **MBLK** SampType: **MBLK** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39665**

Client ID: **ZZZZZZ** Batch ID: **R39665** TestNo: **TO-15M** Analysis Date: **4/6/2011** SeqNo: **753230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	12		12.50		97.5	70	130				

Sample ID: **1103389-019BDUP** SampType: **DUP** TestCode: **EPA_TO15-U** Units: **ppbv** Prep Date: RunNo: **39665**

Client ID: **ZZZZZZ** Batch ID: **R39665** TestNo: **TO-15M** Analysis Date: **4/6/2011** SeqNo: **753233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	8,000						0	0	25	H
1,1,2,2-Tetrachloroethane	ND	8,000						0	0	25	H
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000						0	0	25	H
1,1,2-Trichloroethane	ND	8,000						0	0	25	H
1,1-Dichloroethane	ND	8,000						0	0	25	H
1,1-Dichloroethene	ND	8,000						0	0	25	H
1,2,4-Trichlorobenzene	ND	8,000						0	0	25	H
1,2,4-Trimethylbenzene	ND	8,000						0	0	25	H
1,2-Dibromoethane	ND	8,000						0	0	25	H
1,2-Dichlorobenzene	ND	8,000						0	0	25	H
1,2-Dichloroethane	ND	8,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39665

Sample ID: 1103389-019BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39665

Client ID: ZZZZZZ Batch ID: R39665 TestNo: TO-15M Analysis Date: 4/6/2011 SeqNo: 753233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	8,000						0	0	25	H
1,3,5-Trimethylbenzene	ND	8,000						0	0	25	H
1,3-Butadiene	ND	8,000						0	0	25	H
1,3-Dichlorobenzene	ND	8,000						0	0	25	H
1,4-Dichlorobenzene	ND	8,000						0	0	25	H
1,4-Dioxane	ND	8,000						0	0	25	H
2-Butanone	ND	8,000						0	0	25	H
2-Hexanone	ND	8,000						0	0	25	H
2-Propanol	ND	8,000						0	0	25	H
4-Ethyltoluene	ND	8,000						0	0	25	H
4-Methyl-2-pentanone	ND	8,000						0	0	25	H
Acetone	ND	8,000						0	0	25	H
Benzene	ND	8,000						0	0	25	H
Benzyl chloride	ND	8,000						0	0	25	H
Bromodichloromethane	ND	8,000						0	0	25	H
Bromoform	ND	8,000						0	0	25	H
Bromomethane	ND	8,000						0	0	25	H
Carbon disulfide	ND	8,000						0	0	25	H
Carbon tetrachloride	ND	8,000						0	0	25	H
Chlorobenzene	ND	8,000						0	0	25	H
Chlorodibromomethane	ND	8,000						0	0	25	H
Chloroethane	ND	8,000						0	0	25	H
Chloroform	ND	8,000						0	0	25	H
Chloromethane	ND	8,000						0	0	25	H
cis-1,2-Dichloroethene	ND	8,000						0	0	25	H
cis-1,3-dichloropropene	ND	8,000						0	0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39665

Sample ID: 1103389-019BDUP SampType: DUP TestCode: EPA_TO15-U Units: ppbv Prep Date: RunNo: 39665

Client ID: ZZZZZZ Batch ID: R39665 TestNo: TO-15M Analysis Date: 4/6/2011 SeqNo: 753233

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	17,000	8,000						17,920	3.64	25	H
Dichlorodifluoromethane	ND	8,000						0	0	25	H
Ethanol	ND	8,000						0	0	25	H
Ethyl acetate	ND	8,000						0	0	25	H
Ethylbenzene	ND	8,000						0	0	25	H
Heptane	19,000	8,000						19,760	2.04	25	H
Hexachlorobutadiene	ND	8,000						0	0	25	H
m,p-Xylene	ND	16,000						0	0	25	H
Methylene chloride	ND	8,000						0	0	25	H
Naphthalene	ND	8,000						0	0	25	H
n-Hexane	13,000	8,000						13,120	1.23	25	H
o-Xylene	ND	8,000						0	0	25	H
Propylene	ND	8,000						0	0	25	H
Styrene	ND	8,000						0	0	25	H
tert-Butyl Methyl Ether	ND	8,000						0	0	25	H
Tetrachloroethene	ND	8,000						0	0	25	H
Tetrahydrofuran	ND	8,000						0	0	25	H
Toluene	30,000	8,000						30,720	1.05	25	H
trans-1,2-Dichloroethene	ND	8,000						0	0	25	H
trans-1,3-dichloropropene	ND	8,000						0	0	25	H
Trichloroethene	ND	8,000						0	0	25	H
Trichlorofluoromethane	ND	8,000						0	0	25	H
Vinyl acetate	ND	8,000						0	0	25	H
Vinyl chloride	ND	8,000						0	0	25	H
Surr: 4-Bromofluorobenzene	99,000		100,000		99.3	70	130		0	25	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39697

Sample ID: **MBLK 040711** SampType: **MBLK** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39697**

Client ID: **ZZZZZZ** Batch ID: **R39697** TestNo: **TO-15M** Analysis Date: **4/7/2011** SeqNo: **754016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1103609**

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc
Project: Kirtland AFB 140705 **BatchID:** **R39697**

Sample ID: **MBLK 040711** SampType: **MBLK** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39697**
Client ID: **ZZZZZZ** Batch ID: **R39697** TestNo: **TO-15M** Analysis Date: **4/7/2011** SeqNo: **754016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39697

Sample ID: **MBLK 040711** SampType: **MBLK** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39697**

Client ID: **ZZZZZZ** Batch ID: **R39697** TestNo: **TO-15M** Analysis Date: **4/7/2011** SeqNo: **754016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	12		12.50		95.2	70	130				

Sample ID: **1103609-011ADUP** SampType: **DUP** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39697**

Client ID: **SVMW-08-GS-VA003** Batch ID: **R39697** TestNo: **TO-15M** Analysis Date: **4/7/2011** SeqNo: **754018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	8,000						0	0	25	
1,1,2,2-Tetrachloroethane	ND	8,000						0	0	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000						0	0	25	
1,1,2-Trichloroethane	ND	8,000						0	0	25	
1,1-Dichloroethane	ND	8,000						0	0	25	
1,1-Dichloroethene	ND	8,000						0	0	25	
1,2,4-Trichlorobenzene	ND	8,000						0	0	25	
1,2,4-Trimethylbenzene	ND	8,000						0	0	25	
1,2-Dibromoethane	ND	8,000						0	0	25	
1,2-Dichlorobenzene	ND	8,000						0	0	25	
1,2-Dichloroethane	ND	8,000						0	0	25	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39697

Sample ID: 1103609-011ADUP SampType: DUP TestCode: EPA_TO15-ug Units: ppbv Prep Date: RunNo: 39697

Client ID: SVMW-08-GS-VA003 Batch ID: R39697 TestNo: TO-15M Analysis Date: 4/7/2011 SeqNo: 754018

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	8,000						0	0	25	
1,3,5-Trimethylbenzene	ND	8,000						0	0	25	
1,3-Butadiene	ND	8,000						0	0	25	
1,3-Dichlorobenzene	ND	8,000						0	0	25	
1,4-Dichlorobenzene	ND	8,000						0	0	25	
1,4-Dioxane	ND	8,000						0	0	25	
2-Butanone	ND	8,000						0	0	25	
2-Hexanone	ND	8,000						0	0	25	
2-Propanol	ND	8,000						0	0	25	
4-Ethyltoluene	ND	8,000						0	0	25	
4-Methyl-2-pentanone	ND	8,000						0	0	25	
Acetone	ND	8,000						0	0	25	
Benzene	36,000	8,000						35,920	0.444	25	
Benzyl chloride	ND	8,000						0	0	25	
Bromodichloromethane	ND	8,000						0	0	25	
Bromoform	ND	8,000						0	0	25	
Bromomethane	ND	8,000						0	0	25	
Carbon disulfide	ND	8,000						0	0	25	
Carbon tetrachloride	ND	8,000						0	0	25	
Chlorobenzene	ND	8,000						0	0	25	
Chlorodibromomethane	ND	8,000						0	0	25	
Chloroethane	ND	8,000						0	0	25	
Chloroform	ND	8,000						0	0	25	
Chloromethane	ND	8,000						0	0	25	
cis-1,2-Dichloroethene	ND	8,000						0	0	25	
cis-1,3-dichloropropene	ND	8,000						0	0	25	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39697

Sample ID: 1103609-011ADUP SampType: DUP TestCode: EPA_TO15-ug Units: ppbv Prep Date: RunNo: 39697

Client ID: SVMW-08-GS-VA003 Batch ID: R39697 TestNo: TO-15M Analysis Date: 4/7/2011 SeqNo: 754018

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	73,000	8,000						71,840	1.33	25	
Dichlorodifluoromethane	ND	8,000						0	0	25	
Ethanol	ND	8,000						0	0	25	
Ethyl acetate	ND	8,000						0	0	25	
Ethylbenzene	16,000	8,000						16,320	0.489	25	
Heptane	66,000	8,000						66,080	0.729	25	
Hexachlorobutadiene	ND	8,000						0	0	25	
m,p-Xylene	38,000	16,000						37,520	0.213	25	
Methylene chloride	ND	8,000						0	0	25	
Naphthalene	ND	8,000						0	0	25	
n-Hexane	44,000	8,000						44,160	0.727	25	
o-Xylene	13,000	8,000						13,440	0	25	
Propylene	ND	8,000						0	0	25	
Styrene	ND	8,000						0	0	25	
tert-Butyl Methyl Ether	ND	8,000						0	0	25	
Tetrachloroethene	ND	8,000						0	0	25	
Tetrahydrofuran	ND	8,000						0	0	25	
Toluene	110,000	8,000						110,700	0.0722	25	
trans-1,2-Dichloroethene	ND	8,000						0	0	25	
trans-1,3-dichloropropene	ND	8,000						0	0	25	
Trichloroethene	ND	8,000						0	0	25	
Trichlorofluoromethane	ND	8,000						0	0	25	
Vinyl acetate	ND	8,000						0	0	25	
Vinyl chloride	ND	8,000						0	0	25	
Surr: 4-Bromofluorobenzene	100,000		100,000		99.6	70	130		0	25	

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39704

Sample ID: **MBLK 040811** SampType: **MBLK** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39704**

Client ID: **ZZZZZZ** Batch ID: **R39704** TestNo: **TO-15M** Analysis Date: **4/8/2011** SeqNo: **754176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2,4-Trichlorobenzene	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Butadiene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,4-Dioxane	ND	1.0									
2-Butanone	ND	1.0									
2-Hexanone	ND	1.0									
2-Propanol	ND	1.0									
4-Ethyltoluene	ND	1.0									
4-Methyl-2-pentanone	ND	1.0									
Acetone	ND	1.0									
Benzene	ND	1.0									
Benzyl chloride	ND	1.0									
Bromodichloromethane	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39704

Sample ID: MBLK 040811 SampType: MBLK TestCode: EPA_TO15-ug Units: ppbv Prep Date: RunNo: 39704

Client ID: ZZZZZZ Batch ID: R39704 TestNo: TO-15M Analysis Date: 4/8/2011 SeqNo: 754176

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	1.0									
Bromomethane	ND	1.0									
Carbon disulfide	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chlorodibromomethane	ND	1.0									
Chloroethane	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
cis-1,3-dichloropropene	ND	1.0									
Cyclohexane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethanol	ND	1.0									
Ethyl acetate	ND	1.0									
Ethylbenzene	ND	1.0									
Heptane	ND	1.0									
Hexachlorobutadiene	ND	1.0									
m,p-Xylene	ND	2.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	1.0									
n-Hexane	ND	1.0									
o-Xylene	ND	1.0									
Propylene	ND	1.0									
Styrene	ND	1.0									
tert-Butyl Methyl Ether	ND	1.0									

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39704

Sample ID: **MBLK 040811** SampType: **MBLK** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39704**

Client ID: **ZZZZZZ** Batch ID: **R39704** TestNo: **TO-15M** Analysis Date: **4/8/2011** SeqNo: **754176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	1.0									
Tetrahydrofuran	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-dichloropropene	ND	1.0									
Trichloroethene	ND	1.0									
Trichlorofluoromethane	ND	1.0									
Vinyl acetate	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	11		12.50		91.8	70	130				

Sample ID: **1103609-005ADUP** SampType: **DUP** TestCode: **EPA_TO15-ug** Units: **ppbv** Prep Date: RunNo: **39704**

Client ID: **SVMW-03-GS-VA001** Batch ID: **R39704** TestNo: **TO-15M** Analysis Date: **4/8/2011** SeqNo: **754178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	40,000						0	0	25	
1,1,2,2-Tetrachloroethane	ND	40,000						0	0	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40,000						0	0	25	
1,1,2-Trichloroethane	ND	40,000						0	0	25	
1,1-Dichloroethane	ND	40,000						0	0	25	
1,1-Dichloroethene	ND	40,000						0	0	25	
1,2,4-Trichlorobenzene	ND	40,000						0	0	25	
1,2,4-Trimethylbenzene	ND	40,000						0	0	25	
1,2-Dibromoethane	ND	40,000						0	0	25	
1,2-Dichlorobenzene	ND	40,000						0	0	25	
1,2-Dichloroethane	ND	40,000						0	0	25	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39704

Sample ID: 1103609-005ADUP SampType: DUP TestCode: EPA_TO15-ug Units: ppbv Prep Date: RunNo: 39704

Client ID: SVMW-03-GS-VA001 Batch ID: R39704 TestNo: TO-15M Analysis Date: 4/8/2011 SeqNo: 754178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	40,000						0	0	25	
1,3,5-Trimethylbenzene	ND	40,000						0	0	25	
1,3-Butadiene	ND	40,000						0	0	25	
1,3-Dichlorobenzene	ND	40,000						0	0	25	
1,4-Dichlorobenzene	ND	40,000						0	0	25	
1,4-Dioxane	ND	40,000						0	0	25	
2-Butanone	ND	40,000						0	0	25	
2-Hexanone	ND	40,000						0	0	25	
2-Propanol	ND	40,000						0	0	25	
4-Ethyltoluene	ND	40,000						0	0	25	
4-Methyl-2-pentanone	ND	40,000						0	0	25	
Acetone	ND	40,000						0	0	25	
Benzene	160,000	40,000						154,400	2.30	25	
Benzyl chloride	ND	40,000						0	0	25	
Bromodichloromethane	ND	40,000						0	0	25	
Bromoform	ND	40,000						0	0	25	
Bromomethane	ND	40,000						0	0	25	
Carbon disulfide	ND	40,000						0	0	25	
Carbon tetrachloride	ND	40,000						0	0	25	
Chlorobenzene	ND	40,000						0	0	25	
Chlorodibromomethane	ND	40,000						0	0	25	
Chloroethane	ND	40,000						0	0	25	
Chloroform	ND	40,000						0	0	25	
Chloromethane	ND	40,000						0	0	25	
cis-1,2-Dichloroethene	ND	40,000						0	0	25	
cis-1,3-dichloropropene	ND	40,000						0	0	25	

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39704

Sample ID: 1103609-005ADUP SampType: DUP TestCode: EPA_TO15-ug Units: ppbv Prep Date: RunNo: 39704

Client ID: SVMW-03-GS-VA001 Batch ID: R39704 TestNo: TO-15M Analysis Date: 4/8/2011 SeqNo: 754178

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyclohexane	620,000	40,000						592,000	3.91	25	
Dichlorodifluoromethane	ND	40,000						0	0	25	
Ethanol	ND	40,000						0	0	25	
Ethyl acetate	ND	40,000						0	0	25	
Ethylbenzene	ND	40,000						0	0	25	
Heptane	650,000	40,000						639,600	2.35	25	
Hexachlorobutadiene	ND	40,000						0	0	25	
m,p-Xylene	ND	80,000						0	0	25	
Methylene chloride	ND	40,000						0	0	25	
Naphthalene	ND	40,000						0	0	25	
n-Hexane	410,000	40,000						403,600	2.25	25	
o-Xylene	ND	40,000						0	0	25	
Propylene	ND	40,000						0	0	25	
Styrene	ND	40,000						0	0	25	
tert-Butyl Methyl Ether	ND	40,000						0	0	25	
Tetrachloroethene	ND	40,000						0	0	25	
Tetrahydrofuran	ND	40,000						0	0	25	
Toluene	250,000	40,000						242,400	2.12	25	
trans-1,2-Dichloroethene	ND	40,000						0	0	25	
trans-1,3-dichloropropene	ND	40,000						0	0	25	
Trichloroethene	ND	40,000						0	0	25	
Trichlorofluoromethane	ND	40,000						0	0	25	
Vinyl acetate	ND	40,000						0	0	25	
Vinyl chloride	ND	40,000						0	0	25	
Surr: 4-Bromofluorobenzene	490,000		500,000		98.6	70	130		0	25	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39776

Sample ID: MBLK 4/11/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: ZZZZZZ	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/11/2011	SeqNo: 755878

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	89		89.50		99.7	70	130				

Sample ID: 1103389-025BDUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: ZZZZZZ	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/11/2011	SeqNo: 755880

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	17,000,000	9,400,000						19,540,000	14.5	30	H
C9-C10 Aromatic Hydrocarbons	ND	11,000,000						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000						0	0	30	H
Surr: 4-Bromofluorobenzene	7,300,000		7,160,000		102	70	130		0	30	H

Sample ID: MBLK(2) 4/1/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39776
Client ID: ZZZZZZ	Batch ID: R39776	TestNo: MA_APH		Analysis Date: 4/11/2011	SeqNo: 755892

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	88		89.50		98.3	70	130				

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Website: www.rtilabs.com

QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39776

Sample ID: 1103609-001ADUP SampType: DUP TestCode: MA_APH Units: µg/m³ Prep Date: RunNo: 39776

Client ID: SVMW-02-GS-VA000 Batch ID: R39776 TestNo: MA_APH Analysis Date: 4/12/2011 SeqNo: 755894

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic	2,800,000	0						2,866,000	1.06	30	BH
C5-C8 Aliphatic HC - TOTAL	ND	0						0	0	30	H
C5-C8 Aliphatic Hydrocarbons	2,000,000	470,000						2,038,000	1.59	30	H
C9-C10 Aromatic HC - TOTAL	ND	0						0	0	30	H
C9-C10 Aromatic Hydrocarbons	ND	530,000						0	0	30	H
C9-C12 Aliphatic	690,000	0						686,900	0.714	30	BH
C9-C12 Aliphatic HC - TOTAL	ND	0						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	1,000,000						0	0	30	H
C9-C12 Aliphatic-Aromatic Hydrocarbons	140,000	0						138,300	2.23	30	BH
non C5-C8 - TOTAL	830,000	0						828,200	0.246	30	BH
non C9-C12 - TOTAL	550,000	0						548,600	0.328	30	BH
Surr: 4-Bromofluorobenzene	380,000		358,000		106	70	130		0	30	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39777

Sample ID: MBLK 4/11/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39777
Client ID: ZZZZZZ	Batch ID: R39777	TestNo: MA_APH		Analysis Date: 4/12/2011	SeqNo: 755946

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	87		89.50		97.6	70	130				

Sample ID: 1103609-008ADUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39777
Client ID: SVMW-06-GS-VA002	Batch ID: R39777	TestNo: MA_APH		Analysis Date: 4/12/2011	SeqNo: 755948

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic	59,000,000	0						62,220,000	4.91	30	BH
C5-C8 Aliphatic HC - TOTAL	ND	0						0	0	30	H
C5-C8 Aliphatic Hydrocarbons	44,000,000	9,400,000						45,960,000	4.92	30	H
C9-C10 Aromatic HC - TOTAL	ND	0						0	0	30	H
C9-C10 Aromatic Hydrocarbons	ND	11,000,000						0	0	30	H
C9-C12 Aliphatic	12,000,000	0						12,250,000	5.06	30	BH
C9-C12 Aliphatic HC - TOTAL	ND	0						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	20,000,000						0	0	30	H
C9-C12 Aliphatic-Aromatic Hydrocarbons	2,400,000	0						2,589,000	6.25	30	H
non C5-C8 - TOTAL	15,000,000	0						16,260,000	4.88	30	BH
non C9-C12 - TOTAL	9,200,000	0						9,660,000	4.74	30	BH
Surr: 4-Bromofluorobenzene	7,300,000		7,160,000		103	70	130		0	30	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1103609

18-Apr-11

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB 140705 **BatchID:** R39813

Sample ID: MBLK 4/13/11	SampType: MBLK	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39813
Client ID: ZZZZZZ	Batch ID: R39813	TestNo: MA_APH		Analysis Date: 4/13/2011	SeqNo: 756896

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									
C9-C10 Aromatic Hydrocarbons	ND	130									
C9-C12 Aliphatic Hydrocarbons	ND	250									
Surr: 4-Bromofluorobenzene	85		89.50		94.7	70	130				

Sample ID: 1103609-004ADUP	SampType: DUP	TestCode: MA_APH	Units: µg/m³	Prep Date:	RunNo: 39813
Client ID: SVMW-03-GS-VA001	Batch ID: R39813	TestNo: MA_APH		Analysis Date: 4/13/2011	SeqNo: 756898

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	850,000	47,000						852,800	0.768	30	H
C9-C10 Aromatic Hydrocarbons	ND	53,000						0	0	30	H
C9-C12 Aliphatic Hydrocarbons	ND	100,000						0	0	30	H
Surr: 4-Bromofluorobenzene	36,000		35,800		101	70	130		0	30	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated concentration	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted recovery limits

RTI Laboratories

Run ID: VOA1_110405A **Run No.:** 39639

Analytical Run Date: 4/5/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39639	4/5/2011 10:02:00 AM	Charles O'Bryan		
TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	4/5/2011 11:27:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	4/5/2011 12:10:00 PM	Charles O'Bryan		
MBLK	EPA_TO15-UG/M3	MBLK	R39639	4/5/2011 12:54:00 PM	Charles O'Bryan		
1103389-010B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 3:06:00 PM	Charles O'Bryan	H	
1103389-010BDUP	EPA_TO15-UG/M3	DUP	R39639	4/5/2011 3:48:00 PM	Charles O'Bryan	H	
1103389-021B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 4:30:00 PM	Charles O'Bryan	H	
1103389-034B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 5:13:00 PM	Charles O'Bryan	H	
1103389-035B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 5:54:00 PM	Charles O'Bryan	H	
1103389-036B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 6:36:00 PM	Charles O'Bryan	H	
1103389-037B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 7:19:00 PM	Charles O'Bryan	H	
1103389-022B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 8:04:00 PM	Charles O'Bryan	H	
1103389-023B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 8:49:00 PM	Charles O'Bryan	H	
1103389-024B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 9:34:00 PM	Charles O'Bryan	H	
1103389-025B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 10:19:00 PM	Charles O'Bryan	H	
1103389-026B	EPA_TO15-UG/M3	SAMP	R39639	4/5/2011 11:04:00 PM	Charles O'Bryan	H	
1103389-027B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 12:33:00 AM	Charles O'Bryan	H	
1103389-028B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 1:18:00 AM	Charles O'Bryan	H	
1103389-038A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 2:04:00 AM	Charles O'Bryan	H	
1103389-029B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 2:49:00 AM	Charles O'Bryan	H	
1103389-030B	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 3:33:00 AM	Charles O'Bryan	H	
1103609-001A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 4:18:00 AM	Charles O'Bryan	H	
1103609-006A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 5:46:00 AM	Charles O'Bryan		
1103609-007A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 6:31:00 AM	Charles O'Bryan		
1103609-008A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 7:15:00 AM	Charles O'Bryan		
1103609-009A	EPA_TO15-UG/M3	SAMP	R39639	4/6/2011 7:59:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	4/6/2011 9:31:00 AM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110406A **Run No.:** 39665

Analytical Run Date: 4/6/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39665	4/6/2011 10:17:00 AM	Charles O'Bryan		
TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	4/6/2011 11:09:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	4/6/2011 11:53:00 AM	Charles O'Bryan		
MBLK	EPA_TO15-UG/M3	MBLK	R39665	4/6/2011 1:20:00 PM	Charles O'Bryan		
1103389-018B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 4:27:00 PM	Charles O'Bryan	H	
1103389-019B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 5:50:00 PM	Charles O'Bryan	H	
1103389-019BDUP	EPA_TO15-UG/M3	DUP	R39665	4/6/2011 6:33:00 PM	Charles O'Bryan	H	
1103389-020B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 7:15:00 PM	Charles O'Bryan	H	
1103389-021B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 7:58:00 PM	Charles O'Bryan	H	
1103389-022B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 9:23:00 PM	Charles O'Bryan	H	
1103389-023B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 10:06:00 PM	Charles O'Bryan	H	
1103389-025B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 10:48:00 PM	Charles O'Bryan	H	
1103389-026B	EPA_TO15-UG/M3	SAMP	R39665	4/6/2011 11:31:00 PM	Charles O'Bryan	H	
1103389-027B	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 12:13:00 AM	Charles O'Bryan	H	
1103609-017A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 12:56:00 AM	Charles O'Bryan	H	
1103609-008A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 1:39:00 AM	Charles O'Bryan	H	
1103609-009A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 2:21:00 AM	Charles O'Bryan	H	
1103609-005A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 5:12:00 AM	Charles O'Bryan		
1103609-010A	EPA_TO15-UG/M3	SAMP	R39665	4/7/2011 9:32:00 AM	Charles O'Bryan		
TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	4/7/2011 10:15:00 AM	Charles O'Bryan		Some compound are high due to carryover from high contamination of previoulsy ran sample.

RTI Laboratories

Run ID: VOA1_110407A **Run No.:** 39697

Analytical Run Date: 4/7/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39697	4/7/2011 11:47:00 AM	Charles O'Bryan		
TO15 L2 40cc voa	EPA_TO15	ICAL	R39697	4/7/2011 2:20:00 PM	Charles O'Bryan		
TO15 L3 20cc voa	EPA_TO15	ICAL	R39697	4/7/2011 3:01:00 PM	Charles O'Bryan		
TO15 L4 40cc voa	EPA_TO15	ICAL	R39697	4/7/2011 3:42:00 PM	Charles O'Bryan		
TO15 L5 48cc voa	EPA_TO15	ICAL	R39697	4/7/2011 4:23:00 PM	Charles O'Bryan		
TO15 L6 60cc voa	EPA_TO15	ICAL	R39697	4/7/2011 5:04:00 PM	Charles O'Bryan		
TO15 L7 80cc voa	EPA_TO15	ICAL	R39697	4/7/2011 5:45:00 PM	Charles O'Bryan		
TO15 L8 120cc vo	EPA_TO15	ICAL	R39697	4/7/2011 6:26:00 PM	Charles O'Bryan		
TO15 L9 200cc vo	EPA_TO15	ICAL	R39697	4/7/2011 7:07:00 PM	Charles O'Bryan		
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39697	4/7/2011 7:47:00 PM	Charles O'Bryan		
TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39697	4/7/2011 8:27:00 PM	Charles O'Bryan		
TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	4/7/2011 9:07:00 PM	Charles O'Bryan		
MBLK 040711	EPA_TO15-ug/m3	MBLK	R39697	4/7/2011 9:50:00 PM	Charles O'Bryan		
1103609-011A	EPA_TO15-ug/m3	SAMP	R39697	4/7/2011 10:30:00 PM	Charles O'Bryan		
1103609-011ADUP	EPA_TO15-ug/m3	DUP	R39697	4/7/2011 11:10:00 PM	Charles O'Bryan		
1103609-012A	EPA_TO15-ug/m3	SAMP	R39697	4/7/2011 11:49:00 PM	Charles O'Bryan		
1103609-013A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 12:29:00 AM	Charles O'Bryan		
1103609-014A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 1:09:00 AM	Charles O'Bryan		
1103609-016A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 2:30:00 AM	Charles O'Bryan		
1103609-018A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 3:10:00 AM	Charles O'Bryan		
1103609-019A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 3:50:00 AM	Charles O'Bryan		
1103609-020A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 4:30:00 AM	Charles O'Bryan		
1103609-021A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 5:11:00 AM	Charles O'Bryan		
1103609-022A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 5:51:00 AM	Charles O'Bryan		
1103609-025A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 9:28:00 AM	Charles O'Bryan	H	
1103609-026A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 10:08:00 AM	Charles O'Bryan	H	
1103609-027A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 10:49:00 AM	Charles O'Bryan	H	
1103609-023A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 1:36:00 PM	Charles O'Bryan	H	
1103609-002A	EPA_TO15-ug/m3	SAMP	R39697	4/8/2011 2:17:00 PM	Charles O'Bryan		
TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	4/8/2011 3:39:00 PM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110408A **Run No.:** 39704

Analytical Run Date: 4/8/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ccv questions - see mike t

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39704	4/8/2011 4:19:00 PM	Charles O'Bryan		
TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39704	4/8/2011 5:00:00 PM	Charles O'Bryan		
TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	4/8/2011 5:41:00 PM	Charles O'Bryan		
MBLK 040811	EPA_TO15-ug/m3	MBLK	R39704	4/8/2011 6:24:00 PM	Charles O'Bryan		
1103609-005A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 7:05:00 PM	Charles O'Bryan		
1103609-005ADUP	EPA_TO15-ug/m3	DUP	R39704	4/8/2011 7:46:00 PM	Charles O'Bryan		
1103609-003A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 8:27:00 PM	Charles O'Bryan		
1103609-004A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 9:08:00 PM	Charles O'Bryan		
1103609-010A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 9:50:00 PM	Charles O'Bryan		
1103609-013A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 10:31:00 PM	Charles O'Bryan		
1103609-014A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 11:12:00 PM	Charles O'Bryan		
1103609-015A	EPA_TO15-ug/m3	SAMP	R39704	4/8/2011 11:54:00 PM	Charles O'Bryan		
1103609-026A	EPA_TO15-ug/m3	SAMP	R39704	4/9/2011 1:16:00 AM	Charles O'Bryan	H	
1103609-027A	EPA_TO15-ug/m3	SAMP	R39704	4/9/2011 1:58:00 AM	Charles O'Bryan	H	
1103609-028A	EPA_TO15-ug/m3	SAMP	R39704	4/9/2011 2:40:00 AM	Charles O'Bryan	H	
1103609-024A	EPA_TO15-ug/m3	SAMP	R39704	4/9/2011 4:03:00 AM	Charles O'Bryan	H	
1103609-025A	EPA_TO15-ug/m3	SAMP	R39704	4/9/2011 11:34:00 AM	Charles O'Bryan	H	
TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	4/9/2011 12:15:00 PM	Charles O'Bryan		

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39639

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752960	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040511'4/5/2011 10:02:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.7	0.7		0	0	0	0	0	0	0%	0	2	0%	
174	M		87.5	87.5		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.4	7.4		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.3	98.3		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		16.9	16.9		0	0	0	0	0	0	0%	8	40	0%	
75	M		45.4	45.4		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511'4/5/2011 11:27:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	8.43	8.43		10	0	0	1	1	0	84%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.38	1.38		4.17	0	0	1	1	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	8.7	8.7		9.8	0	0	1	1	0	89%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	7.72	7.72		10	0	0	1	1	0	77%	70	130	0%	
1,1-Dichloroethane	A	ppbv	8.75	8.75		10	0	0	1	1	0	88%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.18	8.18		10	0	0	1	1	0	82%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	6.97	6.97		10.6	0	0	1	1	0	66%	70	130	0%	S
1,2,4-Trimethylbenzene	A	ppbv	7.58	7.58		10	0	0	1	1	0	76%	70	130	0%	
1,2-Dibromoethane	A	ppbv	6.7	6.7		10	0	0	1	1	0	67%	70	130	0%	S
1,2-Dichlorobenzene	A	ppbv	7.55	7.55		10	0	0	1	1	0	76%	70	130	0%	
1,2-Dichloroethane	A	ppbv	8.01	8.01		10	0	0	1	1	0	80%	70	130	0%	
1,2-Dichloropropane	A	ppbv	8.03	8.03		10	0	0	1	1	0	80%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	7.56	7.56		10	0	0	1	1	0	76%	70	130	0%	
1,3-Butadiene	A	ppbv	9.26	9.26		10	0	0	1	1	0	93%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	7.73	7.73		10	0	0	1	1	0	77%	70	130	0%	

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\1\DATA\040511	4/5/2011 11:27:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	7.77	7.77		10.2	0	0	1	1	0	76%	70	130	0%	
1,4-Dioxane	A	ppbv	8.14	8.14		10	0	0	1	1	0	81%	70	130	0%	
2-Butanone	A	ppbv	8.25	8.25		10.2	0	0	1	1	0	81%	70	130	0%	
2-Hexanone	A	ppbv	12.71	12.71		10	0	0	1	1	0	127%	70	130	0%	
2-Propanol	A	ppbv	9.57	9.57		10	0	0	1	1	0	96%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	9.47	9.47		10.6	0	0	1	1	0	89%	70	130	0%	
Acetone	A	ppbv	7.64	7.64		10	0	0	1	1	0	76%	70	130	0%	
Benzene	A	ppbv	7.85	7.85		10	0	0	1	1	0	79%	70	130	0%	
Benzyl chloride	A	ppbv	2.35	2.35		5.4	0	0	1	1	0	44%	70	130	0%	S
Bromodichloromethane	A	ppbv	8.54	8.54		10.2	0	0	1	1	0	84%	70	130	0%	
Bromoform	A	ppbv	7.78	7.78		9.8	0	0	1	1	0	79%	70	130	0%	
Bromomethane	A	ppbv	5.07	5.07		10	0	0	1	1	0	51%	70	130	0%	S
Carbon disulfide	A	ppbv	8.51	8.51		10	0	0	1	1	0	85%	70	130	0%	
Carbon tetrachloride	A	ppbv	8.55	8.55		10	0	0	1	1	0	86%	70	130	0%	
Chlorobenzene	A	ppbv	7.71	7.71		10	0	0	1	1	0	77%	70	130	0%	
Chlorodibromomethane	A	ppbv	8.25	8.25		10	0	0	1	1	0	83%	70	130	0%	
Chloroethane	A	ppbv	7.16	7.16		10	0	0	1	1	0	72%	70	130	0%	
Chloroform	A	ppbv	8.51	8.51		10.2	0	0	1	1	0	83%	70	130	0%	
Chloromethane	A	ppbv	11.52	11.52		10.2	0	0	1	1	0	113%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	8.68	8.68		10	0	0	1	1	0	87%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	7.69	7.69		10.6	0	0	1	1	0	73%	70	130	0%	
Cyclohexane	A	ppbv	8.41	8.41		10.2	0	0	1	1	0	82%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	8.76	8.76		10	0	0	1	1	0	88%	70	130	0%	
Ethanol	A	ppbv	9.99	9.99		12.2	0	0	1	1	0	82%	70	130	0%	
Ethyl acetate	A	ppbv	8.22	8.22		10	0	0	1	1	0	82%	70	130	0%	
Ethylbenzene	A	ppbv	8.17	8.17		10	0	0	1	1	0	82%	70	130	0%	
Heptane	A	ppbv	8.55	8.55		10	0	0	1	1	0	86%	70	130	0%	
Hexachlorobutadiene	A	ppbv	5.56	5.56		9.8	0	0	1	1	0	57%	70	130	0%	S
m,p-Xylene	A	ppbv	15.54	15.54		20	0	0	2	2	0	78%	70	130	0%	
Methylene chloride	A	ppbv	8.15	8.15		9.8	0	0	1	1	0	83%	70	130	0%	
n-Hexane	A	ppbv	7.96	7.96		10.2	0	0	1	1	0	78%	70	130	0%	
Naphthalene	A	ppbv	7.35	7.35		10	0	0	1	1	0	74%	70	130	0%	
o-Xylene	A	ppbv	8.2	8.2		10	0	0	1	1	0	82%	70	130	0%	
p-Ethyltoluene	A	ppbv	7.42	7.42		10.6	0	0	1	1	0	70%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040511	4/5/2011 11:27:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	10.13	10.13		10	0	0	1	1	0	101%	70	130	0%	
Styrene	A	ppbv	8.52	8.52		10	0	0	1	1	0	85%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	7.35	7.35		10	0	0	1	1	0	74%	70	130	0%	
Tetrachloroethene	A	ppbv	8.65	8.65		10	0	0	1	1	0	87%	70	130	0%	
Tetrahydrofuran	A	ppbv	8.98	8.98		10	0	0	1	1	0	90%	70	130	0%	
Toluene	A	ppbv	8.37	8.37		10	0	0	1	1	0	84%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	8.4	8.4		10	0	0	1	1	0	84%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	7.04	7.04		9.4	0	0	1	1	0	75%	70	130	0%	
Trichloroethene	A	ppbv	14.45	14.45		13.6	0	0	1	1	0	106%	70	130	0%	
Trichlorofluoromethane	A	ppbv	8.85	8.85		10	0	0	1	1	0	89%	70	130	0%	
Vinyl acetate	A	ppbv	6.64	6.64		10	0	0	1	1	0	66%	70	130	0%	S
Vinyl chloride	A	ppbv	9.31	9.31		10	0	0	1	1	0	93%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	45.99408	45.99408		54.56	0	0	5.456	5.456	0	84%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	9.4737	9.4737		28.62705	0	0	6.865	6.865	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	66.6768	66.6768		75.1072	0	0	7.664	7.664	0	89%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	42.12032	42.12032		54.56	0	0	5.456	5.456	0	77%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	35.41125	35.41125		40.47	0	0	4.047	4.047	0	88%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	32.4337	32.4337		39.65	0	0	3.965	3.965	0	82%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	51.72437	51.72437		78.6626	0	0	7.421	7.421	0	66%	70	130	0%	S
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	37.26328	37.26328		49.16	0	0	4.916	4.916	0	76%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	51.5096	51.5096		76.88	0	0	7.688	7.688	0	67%	70	130	0%	S
1,2-Dichlorobenzene-ug/m3	C	µg/m³	45.3906	45.3906		60.12	0	0	6.012	6.012	0	76%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	32.41647	32.41647		40.47	0	0	4.047	4.047	0	80%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	37.10663	37.10663		46.21	0	0	4.621	4.621	0	80%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	37.16496	37.16496		49.16	0	0	4.916	4.916	0	76%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	20.48312	20.48312		22.12	0	0	2.212	2.212	0	93%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	46.47276	46.47276		60.12	0	0	6.012	6.012	0	77%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	46.71324	46.71324		61.3224	0	0	6.012	6.012	0	76%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	29.33656	29.33656		36.04	0	0	3.604	3.604	0	81%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	24.32925	24.32925		30.0798	0	0	2.949	2.949	0	81%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	52.07287	52.07287		40.97	0	0	4.097	4.097	0	127%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	23.52306	23.52306		24.58	0	0	2.458	2.458	0	96%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	38.80806	38.80806		43.4388	0	0	4.098	4.098	0	89%	70	130	0%	
Acetone-ug/m3	C	µg/m³	18.145	18.145		23.75	0	0	2.375	2.375	0	76%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511	4/5/2011 11:27:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	25.08075	25.08075		31.95	0	0	3.195	3.195	0	79%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	12.16595	12.16595		27.9558	0	0	5.177	5.177	0	44%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	57.20946	57.20946		68.3298	0	0	6.699	6.699	0	84%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	80.42186	80.42186		101.3026	0	0	10.337	10.337	0	79%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	19.68681	19.68681		38.83	0	0	3.883	3.883	0	51%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	26.50014	26.50014		31.14	0	0	3.114	3.114	0	85%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	53.78805	53.78805		62.91	0	0	6.291	6.291	0	86%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	35.49684	35.49684		46.04	0	0	4.604	4.604	0	77%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	70.28175	70.28175		85.19	0	0	8.519	8.519	0	83%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	18.88808	18.88808		26.38	0	0	2.638	2.638	0	72%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	41.55433	41.55433		49.8066	0	0	4.883	4.883	0	83%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	23.7888	23.7888		21.063	0	0	2.065	2.065	0	113%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	34.4162	34.4162		39.65	0	0	3.965	3.965	0	87%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	34.90491	34.90491		48.1134	0	0	4.539	4.539	0	73%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	28.94722	28.94722		35.1084	0	0	3.442	3.442	0	82%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	43.3182	43.3182		49.45	0	0	4.945	4.945	0	88%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	18.82116	18.82116		22.9848	0	0	1.884	1.884	0	82%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	29.61666	29.61666		36.03	0	0	3.603	3.603	0	82%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	35.47414	35.47414		43.42	0	0	4.342	4.342	0	82%	70	130	0%	
Heptane-ug/m3	C	µg/m³	35.04645	35.04645		40.99	0	0	4.099	4.099	0	86%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	59.2974	59.2974		104.517	0	0	10.665	10.665	0	57%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	134.94936	134.94936		173.68	0	0	17.368	17.368	0	78%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	28.3131	28.3131		34.0452	0	0	3.474	3.474	0	83%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	28.059	28.059		35.955	0	0	3.525	3.525	0	78%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	38.5287	38.5287		52.42	0	0	5.242	5.242	0	74%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	35.6044	35.6044		43.42	0	0	4.342	4.342	0	82%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	36.47672	36.47672		52.1096	0	0	4.916	4.916	0	70%	70	130	0%	
Propylene-ug/m3	C	µg/m³	17.43373	17.43373		17.21	0	0	1.721	1.721	0	101%	70	130	0%	
Styrene-ug/m3	C	µg/m³	36.2952	36.2952		42.6	0	0	4.26	4.26	0	85%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	26.49675	26.49675		36.05	0	0	3.605	3.605	0	74%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	58.6643	58.6643		67.82	0	0	6.782	6.782	0	87%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	26.48202	26.48202		29.49	0	0	2.949	2.949	0	90%	70	130	0%	
Toluene-ug/m3	C	µg/m³	31.54653	31.54653		37.69	0	0	3.769	3.769	0	84%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	33.306	33.306		39.65	0	0	3.965	3.965	0	84%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752961	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040511	4/5/2011 11:27:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	31.95456	31.95456		42.6666	0	0	4.539	4.539	0	75%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	77.6543	77.6543		73.0864	0	0	5.374	5.374	0	106%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	49.7193	49.7193		56.18	0	0	5.618	5.618	0	89%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	23.37944	23.37944		35.21	0	0	3.521	3.521	0	66%	70	130	0%	S
Vinyl chloride-ug/m3	C	µg/m³	23.79636	23.79636		25.56	0	0	2.556	2.556	0	93%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.34	12.34		12.5	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.89	0.89		1	0	0	1	1	0	89%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.95	0.95		0.98	0	0	1	1	0	97%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.95	0.95		0.97	0	0	1	1	0	98%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.04	1.04		0.99	0	0	1	1	0	105%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.76	0.76		0.91	0	0	1	1	0	84%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.96	0.96		0.97	0	0	1	1	0	99%	70	130	0%	
1,2-Dichloroethane	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.94	0.94		0.98	0	0	1	1	0	96%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.01	1.01		0.97	0	0	1	1	0	104%	70	130	0%	
1,3-Butadiene	A	ppbv	1.07	1.07		0.98	0	0	1	1	0	109%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
1,4-Dioxane	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
2-Butanone	A	ppbv	0.89	0.89		0.99	0	0	1	1	0	90%	70	130	0%	
2-Hexanone	A	ppbv	0.71	0.71		0.98	0	0	1	1	0	72%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\DATA\040511	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	0.81	0.81		1.01	0	0	1	1	0	80%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.64	0.64		1	0	0	1	1	0	64%	70	130	0%	S
Acetone	A	ppbv	0.99	0.99		1	0	0	1	1	0	99%	70	130	0%	
Benzene	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
Benzyl chloride	A	ppbv	0.84	0.84		0.97	0	0	1	1	0	87%	70	130	0%	
Bromodichloromethane	A	ppbv	0.93	0.93		0.96	0	0	1	1	0	97%	70	130	0%	
Bromoform	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
Bromomethane	A	ppbv	0.94	0.94		0.93	0	0	1	1	0	101%	70	130	0%	
Carbon disulfide	A	ppbv	1	1		0.97	0	0	1	1	0	103%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.95	0.95		0.95	0	0	1	1	0	100%	70	130	0%	
Chlorobenzene	A	ppbv	0.99	0.99		0.99	0	0	1	1	0	100%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.93	0.93		0.98	0	0	1	1	0	95%	70	130	0%	
Chloroethane	A	ppbv	0.91	0.91		0.92	0	0	1	1	0	99%	70	130	0%	
Chloroform	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Chloromethane	A	ppbv	1.03	1.03		0.95	0	0	1	1	0	108%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	0.94	0.94		0.98	0	0	1	1	0	96%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.89	0.89		0.95	0	0	1	1	0	94%	70	130	0%	
Cyclohexane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	0.94	0.94		0.92	0	0	1	1	0	102%	70	130	0%	
Ethanol	A	ppbv	0.97	0.97		0.92	0	0	1	1	0	105%	70	130	0%	
Ethyl acetate	A	ppbv	0.78	0.78		0.98	0	0	1	1	0	80%	70	130	0%	
Ethylbenzene	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
Heptane	A	ppbv	1.01	1.01		0.99	0	0	1	1	0	102%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.82	0.82		0.94	0	0	1	1	0	87%	70	130	0%	
m,p-Xylene	A	ppbv	1.96	1.96		1.92	0	0	2	2	0	102%	70	130	0%	
Methylene chloride	A	ppbv	1.08	1.08		1	0	0	1	1	0	108%	70	130	0%	
n-Hexane	A	ppbv	0.98	0.98		1.01	0	0	1	1	0	97%	70	130	0%	
Naphthalene	A	ppbv	0.86	0.86		0.92	0	0	1	1	0	93%	70	130	0%	
o-Xylene	A	ppbv	1	1		1	0	0	1	1	0	100%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Propylene	A	ppbv	1.07	1.07		1.02	0	0	1	1	0	105%	70	130	0%	
Styrene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	0.97	0.97		0.99	0	0	1	1	0	98%	70	130	0%	
Tetrachloroethene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040511	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	0.88	0.88		1	0	0	1	1	0	88%	70	130	0%	
Toluene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.83	0.83		0.91	0	0	1	1	0	91%	70	130	0%	
Trichloroethene	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
Trichlorofluoromethane	A	ppbv	0.99	0.99		0.96	0	0	1	1	0	103%	70	130	0%	
Vinyl acetate	A	ppbv	0.85	0.85		0.99	0	0	1	1	0	86%	70	130	0%	
Vinyl chloride	A	ppbv	1.02	1.02		0.94	0	0	1	1	0	109%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.34688	5.34688		5.23776	0	0	5.456	5.456	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.10985	6.10985		6.865	0	0	6.865	6.865	0	89%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.43408	7.43408		7.51072	0	0	7.664	7.664	0	99%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.1832	5.1832		5.34688	0	0	5.456	5.456	0	97%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.84465	3.84465		3.92559	0	0	4.047	4.047	0	98%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.1236	4.1236		3.92535	0	0	3.965	3.965	0	105%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.63996	5.63996		6.75311	0	0	7.421	7.421	0	84%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.81768	0	0	4.916	4.916	0	99%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.22672	7.22672		7.38048	0	0	7.688	7.688	0	98%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.77152	5.77152		5.83164	0	0	6.012	6.012	0	99%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	3.96606	3.96606		3.92559	0	0	4.047	4.047	0	101%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.34374	4.34374		4.52858	0	0	4.621	4.621	0	96%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.96516	4.96516		4.76852	0	0	4.916	4.916	0	104%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.36684	2.36684		2.16776	0	0	2.212	2.212	0	109%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.89176	5.89176		5.83164	0	0	6.012	6.012	0	101%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	6.012	6.012		5.77152	0	0	6.012	6.012	0	104%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	3.38776	3.38776		3.45984	0	0	3.604	3.604	0	98%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	2.62461	2.62461		2.91951	0	0	2.949	2.949	0	90%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.90887	2.90887		4.01506	0	0	4.097	4.097	0	72%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	1.99098	1.99098		2.48258	0	0	2.458	2.458	0	80%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.62272	2.62272		4.098	0	0	4.098	4.098	0	64%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.35125	2.35125		2.375	0	0	2.375	2.375	0	99%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.03525	3.03525		3.0672	0	0	3.195	3.195	0	99%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	4.34868	4.34868		5.02169	0	0	5.177	5.177	0	87%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.23007	6.23007		6.43104	0	0	6.699	6.699	0	97%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	9.92352	9.92352		9.92352	0	0	10.337	10.337	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040511	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	3.65002	3.65002		3.61119	0	0	3.883	3.883	0	101%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.114	3.114		3.02058	0	0	3.114	3.114	0	103%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	5.97645	5.97645		5.97645	0	0	6.291	6.291	0	100%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.55796	4.55796		4.55796	0	0	4.604	4.604	0	100%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	7.92267	7.92267		8.34862	0	0	8.519	8.519	0	95%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.40058	2.40058		2.42696	0	0	2.638	2.638	0	99%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	4.883	4.883		4.78534	0	0	4.883	4.883	0	102%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.12695	2.12695		1.96175	0	0	2.065	2.065	0	108%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.7271	3.7271		3.8857	0	0	3.965	3.965	0	96%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.03971	4.03971		4.31205	0	0	4.539	4.539	0	94%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.37316	3.37316		3.37316	0	0	3.442	3.442	0	100%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.6483	4.6483		4.5494	0	0	4.945	4.945	0	102%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.82748	1.82748		1.73328	0	0	1.884	1.884	0	105%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.81034	2.81034		3.53094	0	0	3.603	3.603	0	80%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.29858	4.29858		4.25516	0	0	4.342	4.342	0	101%	70	130	0%	
Heptane-ug/m3	C	µg/m³	4.13999	4.13999		4.05801	0	0	4.099	4.099	0	102%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	8.7453	8.7453		10.0251	0	0	10.665	10.665	0	87%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	17.02064	17.02064		16.67328	0	0	17.368	17.368	0	102%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.75192	3.75192		3.474	0	0	3.474	3.474	0	108%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	3.4545	3.4545		3.56025	0	0	3.525	3.525	0	97%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	4.50812	4.50812		4.82264	0	0	5.242	5.242	0	93%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.342	4.342		4.342	0	0	4.342	4.342	0	100%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.81768	4.81768		4.81768	0	0	4.916	4.916	0	100%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.84147	1.84147		1.75542	0	0	1.721	1.721	0	105%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.1322	4.1322		4.1748	0	0	4.26	4.26	0	99%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.49685	3.49685		3.56895	0	0	3.605	3.605	0	98%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.782	6.782		6.51072	0	0	6.782	6.782	0	104%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.59512	2.59512		2.949	0	0	2.949	2.949	0	88%	70	130	0%	
Toluene-ug/m3	C	µg/m³	3.65593	3.65593		3.69362	0	0	3.769	3.769	0	99%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	3.92535	3.92535		3.8857	0	0	3.965	3.965	0	101%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.76737	3.76737		4.13049	0	0	4.539	4.539	0	91%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.05156	5.05156		5.15904	0	0	5.374	5.374	0	98%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.56182	5.56182		5.39328	0	0	5.618	5.618	0	103%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	2.99285	2.99285		3.48579	0	0	3.521	3.521	0	86%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752962	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\1\DATA\040511	4/5/2011 12:10:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	2.60712	2.60712		2.40264	0	0	2.556	2.556	0	109%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.35	12.35		12.5	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040511	4/5/2011 12:54:0	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040511\4/5/2011 12:54:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040511\4/5/2011 12:54:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752963	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040511\4/5/2011 12:54:0		1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.77	11.77		12.5	0	0	0	0	0	94%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	3.95	316000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511\	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	15.79	1263200		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	7.6	608000		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.83	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	15.49	1239200		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	5.46	436800		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\I\DATA\040511	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.62025	1009620		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	54.34918	4347934.4		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752964	1103389-010B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/5/2011 3:06:00	80000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	31.1524	2492192		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.20772	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	54.60225	4368180		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	20.57874	1646299.2		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.23	978400		1000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\I\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\\1\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	3.95	316000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\I\DATA\040511\	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	15.29	1223200		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	7.65	612000		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.83	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	14.7	1176000		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	5.54	443200		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.62025	1009620		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	52.62818	4210254.4		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752965	1103389-010BDUP	EPA_TO15-UG/	DUP	\\1\DATA\040511	4/5/2011 3:48:00	80000	R39639		0	752694	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	31.35735	2508588		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	7.20772	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	51.8175	4145400		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	20.88026	1670420.8		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.09	967200		1000000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752966	1103389-021B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/5/2011 4:30:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752981	1103609-001A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\4/6/2011 4:18:00		8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	1.34	10720		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752981	1103609-001A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\	4/6/2011 4:18:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	4.13	33040		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	1.66	13280		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	3.86	30880		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	2.25	18000		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752981	1103609-001A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/6/2011 4:18:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	4.2813	34250.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	14.21546	113723.68		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752981	1103609-001A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511\	4/6/2011 4:18:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	6.80434	54434.72		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	13.6065	108852		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	8.48025	67842		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.59	100720		100000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752982	1103609-006A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040511\	4/6/2011 5:46:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	1.8	14400		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752982	1103609-006A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\I\DATA\040511	4/6/2011 5:46:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	3.58	28640		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.8	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	5.35	42800		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.44	19520		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.41	19280		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0.72	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	8.95	71600		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752982	1103609-006A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/6/2011 5:46:00		8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	5.751	46008		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	12.32236	98578.88		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752982	1103609-006A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 5:46:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	3.4736	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	21.92965	175437.2		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	21.18896	169511.68		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	8.49525	67962		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	3.12624	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	33.73255	269860.4		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.45	99600		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752983	1103609-007A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511'4/6/2011 6:31:00		8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	1.68	13440		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752983	1103609-007A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 6:31:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	4.31	34480		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.53	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	4.59	36720		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.57	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	3.04	24320		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	5.87	46960		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752983	1103609-007A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 6:31:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	5.3676	42940.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	14.83502	118680.16		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752983	1103609-007A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/6/2011 6:31:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	2.30126	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	18.81441	150515.28		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	13.63388	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	10.716	85728		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	22.12403	176992.24		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.53	100240		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752984	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/6/2011 7:15:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	48.23	385840		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752984	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\I\DATA\040511	4/6/2011 7:15:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	60.16	481280		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0.94	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	20.94	167520		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.58	20640		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	62.18	497440		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.07	8560		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	3.09	24720		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	22.47	179760		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752984	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\4/6/2011 7:15:00		8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	154.09485	1232758.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	207.07072	1656565.76		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752984	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511	4/6/2011 7:15:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.08148	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	85.83306	686664.48		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	22.40472	179237.76		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	219.1845	1753476		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.64594	37167.52		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	5.31789	42543.12		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	84.68943	677515.44		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.6	100800		100000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752985	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/6/2011 7:59:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	1.3	10400		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	33.1	264800		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752985	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/6/2011 7:59:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	51.35	410800		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.82	14560		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	23.66	189280		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.56	28480		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	54.44	435520		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.12	8960		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	4.21	33680		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	48.35	386800		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752985	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040511	4/6/2011 7:59:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	3.0875	24700		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	105.7545	846036		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	176.7467	1413973.6		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752985	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040511\	4/6/2011 7:59:00	8000	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	7.90244	63219.52		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	96.98234	775858.72		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	30.91504	247320.32		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	191.901	1535208		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.86304	38904.32		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	7.24541	57963.28		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	182.23115	1457849.2		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.6	100800		100000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511\	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\1\DATA\040511	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.81	0.81		1	0	0	1	1	0	81%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.86	0.86		0.98	0	0	1	1	0	88%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.12	1.12		0.99	0	0	1	1	0	113%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.71	0.71		0.91	0	0	1	1	0	78%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.91	0.91		0.98	0	0	1	1	0	93%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.86	0.86		0.96	0	0	1	1	0	90%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
1,2-Dichloroethane	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.85	0.85		0.98	0	0	1	1	0	87%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.94	0.94		0.97	0	0	1	1	0	97%	70	130	0%	
1,3-Butadiene	A	ppbv	1.13	1.13		0.98	0	0	1	1	0	115%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	0.95	0.95		0.96	0	0	1	1	0	99%	70	130	0%	
1,4-Dioxane	A	ppbv	0.66	0.66		0.96	0	0	1	1	0	69%	70	130	0%	S
2-Butanone	A	ppbv	0.89	0.89		0.99	0	0	1	1	0	90%	70	130	0%	
2-Hexanone	A	ppbv	0.65	0.65		0.98	0	0	1	1	0	66%	70	130	0%	S
2-Propanol	A	ppbv	0.81	0.81		1.01	0	0	1	1	0	80%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.63	0.63		1	0	0	1	1	0	63%	70	130	0%	S
Acetone	A	ppbv	1.1	1.1		1	0	0	1	1	0	110%	70	130	0%	
Benzene	A	ppbv	2.04	2.04		0.96	0	0	1	1	0	213%	70	130	0%	S
Benzyl chloride	A	ppbv	0.78	0.78		0.97	0	0	1	1	0	80%	70	130	0%	
Bromodichloromethane	A	ppbv	0.87	0.87		0.96	0	0	1	1	0	91%	70	130	0%	
Bromoform	A	ppbv	0.88	0.88		0.96	0	0	1	1	0	92%	70	130	0%	
Bromomethane	A	ppbv	1.02	1.02		0.93	0	0	1	1	0	110%	70	130	0%	
Carbon disulfide	A	ppbv	1.06	1.06		0.97	0	0	1	1	0	109%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.95	0.95		0.95	0	0	1	1	0	100%	70	130	0%	
Chlorobenzene	A	ppbv	0.91	0.91		0.99	0	0	1	1	0	92%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.85	0.85		0.98	0	0	1	1	0	87%	70	130	0%	
Chloroethane	A	ppbv	1.04	1.04		0.92	0	0	1	1	0	113%	70	130	0%	
Chloroform	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Chloromethane	A	ppbv	1.1	1.1		0.95	0	0	1	1	0	116%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0.93	0.93		0.98	0	0	1	1	0	95%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.81	0.81		0.95	0	0	1	1	0	85%	70	130	0%	
Cyclohexane	A	ppbv	3.15	3.15		0.98	0	0	1	1	0	321%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1.01	1.01		0.92	0	0	1	1	0	110%	70	130	0%	
Ethanol	A	ppbv	0.82	0.82		0.92	0	0	1	1	0	89%	70	130	0%	
Ethyl acetate	A	ppbv	0.77	0.77		0.98	0	0	1	1	0	79%	70	130	0%	
Ethylbenzene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
Heptane	A	ppbv	1.97	1.97		0.99	0	0	1	1	0	199%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	0.84	0.84		0.94	0	0	1	1	0	89%	70	130	0%	
m,p-Xylene	A	ppbv	1.93	1.93		1.92	0	0	2	2	0	101%	70	130	0%	
Methylene chloride	A	ppbv	1.21	1.21		1	0	0	1	1	0	121%	70	130	0%	
n-Hexane	A	ppbv	3.29	3.29		1.01	0	0	1	1	0	326%	70	130	0%	S
Naphthalene	A	ppbv	0.7	0.7		0.92	0	0	1	1	0	76%	70	130	0%	
o-Xylene	A	ppbv	0.96	0.96		1	0	0	1	1	0	96%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.92	0.92		0.98	0	0	1	1	0	94%	70	130	0%	
Propylene	A	ppbv	1.26	1.26		1.02	0	0	1	1	0	124%	70	130	0%	
Styrene	A	ppbv	0.89	0.89		0.98	0	0	1	1	0	91%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	0.91	0.91		0.99	0	0	1	1	0	92%	70	130	0%	
Tetrachloroethene	A	ppbv	0.96	0.96		0.96	0	0	1	1	0	100%	70	130	0%	
Tetrahydrofuran	A	ppbv	1.41	1.41		1	0	0	1	1	0	141%	70	130	0%	S
Toluene	A	ppbv	2.58	2.58		0.98	0	0	1	1	0	263%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.75	0.75		0.91	0	0	1	1	0	82%	70	130	0%	
Trichloroethene	A	ppbv	0.92	0.92		0.96	0	0	1	1	0	96%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.06	1.06		0.96	0	0	1	1	0	110%	70	130	0%	
Vinyl acetate	A	ppbv	0.76	0.76		0.99	0	0	1	1	0	77%	70	130	0%	
Vinyl chloride	A	ppbv	1.07	1.07		0.94	0	0	1	1	0	114%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.23776	5.23776		5.23776	0	0	5.456	5.456	0	100%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	5.56065	5.56065		6.865	0	0	6.865	6.865	0	81%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.81728	7.81728		7.51072	0	0	7.664	7.664	0	104%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	4.69216	4.69216		5.34688	0	0	5.456	5.456	0	88%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.76371	3.76371		3.92559	0	0	4.047	4.047	0	96%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.4408	4.4408		3.92535	0	0	3.965	3.965	0	113%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.26891	5.26891		6.75311	0	0	7.421	7.421	0	78%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.47356	4.47356		4.81768	0	0	4.916	4.916	0	93%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	6.61168	6.61168		7.38048	0	0	7.688	7.688	0	90%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.47092	5.47092		5.83164	0	0	6.012	6.012	0	94%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	3.76371	3.76371		3.92559	0	0	4.047	4.047	0	96%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	3.92785	3.92785		4.52858	0	0	4.621	4.621	0	87%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.62104	4.62104		4.76852	0	0	4.916	4.916	0	97%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.49956	2.49956		2.16776	0	0	2.212	2.212	0	115%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.59116	5.59116		5.83164	0	0	6.012	6.012	0	96%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	5.7114	5.7114		5.77152	0	0	6.012	6.012	0	99%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	2.37864	2.37864		3.45984	0	0	3.604	3.604	0	69%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	2.62461	2.62461		2.91951	0	0	2.949	2.949	0	90%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.66305	2.66305		4.01506	0	0	4.097	4.097	0	66%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	1.99098	1.99098		2.48258	0	0	2.458	2.458	0	80%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.58174	2.58174		4.098	0	0	4.098	4.098	0	63%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.6125	2.6125		2.375	0	0	2.375	2.375	0	110%	70	130	0%	
Benzene-ug/m3	C	µg/m³	6.5178	6.5178		3.0672	0	0	3.195	3.195	0	213%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	4.03806	4.03806		5.02169	0	0	5.177	5.177	0	80%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	5.82813	5.82813		6.43104	0	0	6.699	6.699	0	91%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	9.09656	9.09656		9.92352	0	0	10.337	10.337	0	92%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	3.96066	3.96066		3.61119	0	0	3.883	3.883	0	110%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.30084	3.30084		3.02058	0	0	3.114	3.114	0	109%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	5.97645	5.97645		5.97645	0	0	6.291	6.291	0	100%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.18964	4.18964		4.55796	0	0	4.604	4.604	0	92%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	7.24115	7.24115		8.34862	0	0	8.519	8.519	0	87%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.74352	2.74352		2.42696	0	0	2.638	2.638	0	113%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	4.78534	4.78534		4.78534	0	0	4.883	4.883	0	100%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.2715	2.2715		1.96175	0	0	2.065	2.065	0	116%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.68745	3.68745		3.8857	0	0	3.965	3.965	0	95%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	3.67659	3.67659		4.31205	0	0	4.539	4.539	0	85%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	10.8423	10.8423		3.37316	0	0	3.442	3.442	0	321%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.99445	4.99445		4.5494	0	0	4.945	4.945	0	110%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.54488	1.54488		1.73328	0	0	1.884	1.884	0	89%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.77431	2.77431		3.53094	0	0	3.603	3.603	0	79%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.21174	4.21174		4.25516	0	0	4.342	4.342	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
752986	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040511	4/6/2011 9:31:00	1	R39639		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	8.07503	8.07503		4.05801	0	0	4.099	4.099	0	199%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	8.9586	8.9586		10.0251	0	0	10.665	10.665	0	89%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	16.76012	16.76012		16.67328	0	0	17.368	17.368	0	101%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	4.20354	4.20354		3.474	0	0	3.474	3.474	0	121%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	11.59725	11.59725		3.56025	0	0	3.525	3.525	0	326%	70	130	0%	S
Naphthalene-ug/m3	C	µg/m³	3.6694	3.6694		4.82264	0	0	5.242	5.242	0	76%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.16832	4.16832		4.342	0	0	4.342	4.342	0	96%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.52272	4.52272		4.81768	0	0	4.916	4.916	0	94%	70	130	0%	
Propylene-ug/m3	C	µg/m³	2.16846	2.16846		1.75542	0	0	1.721	1.721	0	124%	70	130	0%	
Styrene-ug/m3	C	µg/m³	3.7914	3.7914		4.1748	0	0	4.26	4.26	0	91%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.28055	3.28055		3.56895	0	0	3.605	3.605	0	92%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.51072	6.51072		6.51072	0	0	6.782	6.782	0	100%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	4.15809	4.15809		2.949	0	0	2.949	2.949	0	141%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	9.72402	9.72402		3.69362	0	0	3.769	3.769	0	263%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.0443	4.0443		3.8857	0	0	3.965	3.965	0	104%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.40425	3.40425		4.13049	0	0	4.539	4.539	0	82%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	4.94408	4.94408		5.15904	0	0	5.374	5.374	0	96%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.95508	5.95508		5.39328	0	0	5.618	5.618	0	110%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	2.67596	2.67596		3.48579	0	0	3.521	3.521	0	77%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	2.73492	2.73492		2.40264	0	0	2.556	2.556	0	114%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.67	12.67		12.5	0	0	0	0	0	101%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39665

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753227	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040611\	4/6/2011 10:17:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.6	0.6		0	0	0	0	0	0	0%	0	2	0%	
174	M		87.2	87.2		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.3	7.3		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.1	98.1		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.2	17.2		0	0	0	0	0	0	0%	8	40	0%	
75	M		46	46		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		7	7		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040611\	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	8.53	8.53		10	0	0	1	1	0	85%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.38	1.38		4.17	0	0	1	1	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	9.01	9.01		9.8	0	0	1	1	0	92%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	7.82	7.82		10	0	0	1	1	0	78%	70	130	0%	
1,1-Dichloroethane	A	ppbv	8.83	8.83		10	0	0	1	1	0	88%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.38	8.38		10	0	0	1	1	0	84%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	7.25	7.25		10.6	0	0	1	1	0	68%	70	130	0%	S
1,2,4-Trimethylbenzene	A	ppbv	7.81	7.81		10	0	0	1	1	0	78%	70	130	0%	
1,2-Dibromoethane	A	ppbv	6.73	6.73		10	0	0	1	1	0	67%	70	130	0%	S
1,2-Dichlorobenzene	A	ppbv	7.9	7.9		10	0	0	1	1	0	79%	70	130	0%	
1,2-Dichloroethane	A	ppbv	8.19	8.19		10	0	0	1	1	0	82%	70	130	0%	
1,2-Dichloropropane	A	ppbv	8.12	8.12		10	0	0	1	1	0	81%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	7.78	7.78		10	0	0	1	1	0	78%	70	130	0%	
1,3-Butadiene	A	ppbv	9.03	9.03		10	0	0	1	1	0	90%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	8	8		10	0	0	1	1	0	80%	70	130	0%	

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\I\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	8.02	8.02		10.2	0	0	1	1	0	79%	70	130	0%	
1,4-Dioxane	A	ppbv	7.96	7.96		10	0	0	1	1	0	80%	70	130	0%	
2-Butanone	A	ppbv	8.03	8.03		10.2	0	0	1	1	0	79%	70	130	0%	
2-Hexanone	A	ppbv	12.47	12.47		10	0	0	1	1	0	125%	70	130	0%	
2-Propanol	A	ppbv	9.56	9.56		10	0	0	1	1	0	96%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	9.54	9.54		10.6	0	0	1	1	0	90%	70	130	0%	
Acetone	A	ppbv	7.75	7.75		10	0	0	1	1	0	78%	70	130	0%	
Benzene	A	ppbv	7.91	7.91		10	0	0	1	1	0	79%	70	130	0%	
Benzyl chloride	A	ppbv	2.35	2.35		5.4	0	0	1	1	0	44%	70	130	0%	S
Bromodichloromethane	A	ppbv	8.6	8.6		10.2	0	0	1	1	0	84%	70	130	0%	
Bromoform	A	ppbv	7.98	7.98		9.8	0	0	1	1	0	81%	70	130	0%	
Bromomethane	A	ppbv	5.12	5.12		10	0	0	1	1	0	51%	70	130	0%	S
Carbon disulfide	A	ppbv	8.44	8.44		10	0	0	1	1	0	84%	70	130	0%	
Carbon tetrachloride	A	ppbv	8.65	8.65		10	0	0	1	1	0	87%	70	130	0%	
Chlorobenzene	A	ppbv	7.87	7.87		10	0	0	1	1	0	79%	70	130	0%	
Chlorodibromomethane	A	ppbv	8.31	8.31		10	0	0	1	1	0	83%	70	130	0%	
Chloroethane	A	ppbv	7.25	7.25		10	0	0	1	1	0	73%	70	130	0%	
Chloroform	A	ppbv	8.6	8.6		10.2	0	0	1	1	0	84%	70	130	0%	
Chloromethane	A	ppbv	11.14	11.14		10.2	0	0	1	1	0	109%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	8.75	8.75		10	0	0	1	1	0	88%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	7.71	7.71		10.6	0	0	1	1	0	73%	70	130	0%	
Cyclohexane	A	ppbv	8.58	8.58		10.2	0	0	1	1	0	84%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	8.63	8.63		10	0	0	1	1	0	86%	70	130	0%	
Ethanol	A	ppbv	10.03	10.03		12.2	0	0	1	1	0	82%	70	130	0%	
Ethyl acetate	A	ppbv	8	8		10	0	0	1	1	0	80%	70	130	0%	
Ethylbenzene	A	ppbv	8.36	8.36		10	0	0	1	1	0	84%	70	130	0%	
Heptane	A	ppbv	8.92	8.92		10	0	0	1	1	0	89%	70	130	0%	
Hexachlorobutadiene	A	ppbv	5.84	5.84		9.8	0	0	1	1	0	60%	70	130	0%	S
m,p-Xylene	A	ppbv	15.93	15.93		20	0	0	2	2	0	80%	70	130	0%	
Methylene chloride	A	ppbv	8.35	8.35		9.8	0	0	1	1	0	85%	70	130	0%	
n-Hexane	A	ppbv	8.15	8.15		10.2	0	0	1	1	0	80%	70	130	0%	
Naphthalene	A	ppbv	7.75	7.75		10	0	0	1	1	0	78%	70	130	0%	
o-Xylene	A	ppbv	8.32	8.32		10	0	0	1	1	0	83%	70	130	0%	
p-Ethyltoluene	A	ppbv	7.55	7.55		10.6	0	0	1	1	0	71%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	10.03	10.03		10	0	0	1	1	0	100%	70	130	0%	
Styrene	A	ppbv	8.64	8.64		10	0	0	1	1	0	86%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	7.38	7.38		10	0	0	1	1	0	74%	70	130	0%	
Tetrachloroethene	A	ppbv	8.9	8.9		10	0	0	1	1	0	89%	70	130	0%	
Tetrahydrofuran	A	ppbv	9.07	9.07		10	0	0	1	1	0	91%	70	130	0%	
Toluene	A	ppbv	8.5	8.5		10	0	0	1	1	0	85%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	8.62	8.62		10	0	0	1	1	0	86%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	7.1	7.1		9.4	0	0	1	1	0	76%	70	130	0%	
Trichloroethene	A	ppbv	14.73	14.73		13.6	0	0	1	1	0	108%	70	130	0%	
Trichlorofluoromethane	A	ppbv	9.02	9.02		10	0	0	1	1	0	90%	70	130	0%	
Vinyl acetate	A	ppbv	6.59	6.59		10	0	0	1	1	0	66%	70	130	0%	S
Vinyl chloride	A	ppbv	8.88	8.88		10	0	0	1	1	0	89%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	46.53968	46.53968		54.56	0	0	5.456	5.456	0	85%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	9.4737	9.4737		28.62705	0	0	6.865	6.865	0	33%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	69.05264	69.05264		75.1072	0	0	7.664	7.664	0	92%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	42.66592	42.66592		54.56	0	0	5.456	5.456	0	78%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	35.73501	35.73501		40.47	0	0	4.047	4.047	0	88%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	33.2267	33.2267		39.65	0	0	3.965	3.965	0	84%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	53.80225	53.80225		78.6626	0	0	7.421	7.421	0	68%	70	130	0%	S
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	38.39396	38.39396		49.16	0	0	4.916	4.916	0	78%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	51.74024	51.74024		76.88	0	0	7.688	7.688	0	67%	70	130	0%	S
1,2-Dichlorobenzene-ug/m3	C	µg/m³	47.4948	47.4948		60.12	0	0	6.012	6.012	0	79%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	33.14493	33.14493		40.47	0	0	4.047	4.047	0	82%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	37.52252	37.52252		46.21	0	0	4.621	4.621	0	81%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	38.24648	38.24648		49.16	0	0	4.916	4.916	0	78%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	19.97436	19.97436		22.12	0	0	2.212	2.212	0	90%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	48.096	48.096		60.12	0	0	6.012	6.012	0	80%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	48.21624	48.21624		61.3224	0	0	6.012	6.012	0	79%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	28.68784	28.68784		36.04	0	0	3.604	3.604	0	80%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	23.68047	23.68047		30.0798	0	0	2.949	2.949	0	79%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	51.08959	51.08959		40.97	0	0	4.097	4.097	0	125%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	23.49848	23.49848		24.58	0	0	2.458	2.458	0	96%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	39.09492	39.09492		43.4388	0	0	4.098	4.098	0	90%	70	130	0%	
Acetone-ug/m3	C	µg/m³	18.40625	18.40625		23.75	0	0	2.375	2.375	0	78%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	25.27245	25.27245		31.95	0	0	3.195	3.195	0	79%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	12.16595	12.16595		27.9558	0	0	5.177	5.177	0	44%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	57.6114	57.6114		68.3298	0	0	6.699	6.699	0	84%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	82.48926	82.48926		101.3026	0	0	10.337	10.337	0	81%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	19.88096	19.88096		38.83	0	0	3.883	3.883	0	51%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	26.28216	26.28216		31.14	0	0	3.114	3.114	0	84%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	54.41715	54.41715		62.91	0	0	6.291	6.291	0	87%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	36.23348	36.23348		46.04	0	0	4.604	4.604	0	79%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	70.79289	70.79289		85.19	0	0	8.519	8.519	0	83%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	19.1255	19.1255		26.38	0	0	2.638	2.638	0	73%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	41.9938	41.9938		49.8066	0	0	4.883	4.883	0	84%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	23.0041	23.0041		21.063	0	0	2.065	2.065	0	109%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	34.69375	34.69375		39.65	0	0	3.965	3.965	0	88%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	34.99569	34.99569		48.1134	0	0	4.539	4.539	0	73%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	29.53236	29.53236		35.1084	0	0	3.442	3.442	0	84%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	42.67535	42.67535		49.45	0	0	4.945	4.945	0	86%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	18.89652	18.89652		22.9848	0	0	1.884	1.884	0	82%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	28.824	28.824		36.03	0	0	3.603	3.603	0	80%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	36.29912	36.29912		43.42	0	0	4.342	4.342	0	84%	70	130	0%	
Heptane-ug/m3	C	µg/m³	36.56308	36.56308		40.99	0	0	4.099	4.099	0	89%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	62.2836	62.2836		104.517	0	0	10.665	10.665	0	60%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	138.33612	138.33612		173.68	0	0	17.368	17.368	0	80%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	29.0079	29.0079		34.0452	0	0	3.474	3.474	0	85%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	28.72875	28.72875		35.955	0	0	3.525	3.525	0	80%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	40.6255	40.6255		52.42	0	0	5.242	5.242	0	78%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	36.12544	36.12544		43.42	0	0	4.342	4.342	0	83%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	37.1158	37.1158		52.1096	0	0	4.916	4.916	0	71%	70	130	0%	
Propylene-ug/m3	C	µg/m³	17.26163	17.26163		17.21	0	0	1.721	1.721	0	100%	70	130	0%	
Styrene-ug/m3	C	µg/m³	36.8064	36.8064		42.6	0	0	4.26	4.26	0	86%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	26.6049	26.6049		36.05	0	0	3.605	3.605	0	74%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	60.3598	60.3598		67.82	0	0	6.782	6.782	0	89%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	26.74743	26.74743		29.49	0	0	2.949	2.949	0	91%	70	130	0%	
Toluene-ug/m3	C	µg/m³	32.0365	32.0365		37.69	0	0	3.769	3.769	0	85%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	34.1783	34.1783		39.65	0	0	3.965	3.965	0	86%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753228	TO15 CCV 400cc v	EPA_TO15-UG/	CCV	\I\DATA\040611	4/6/2011 11:09:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	32.2269	32.2269		42.6666	0	0	4.539	4.539	0	76%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	79.15902	79.15902		73.0864	0	0	5.374	5.374	0	108%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	50.67436	50.67436		56.18	0	0	5.618	5.618	0	90%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	23.20339	23.20339		35.21	0	0	3.521	3.521	0	66%	70	130	0%	S
Vinyl chloride-ug/m3	C	µg/m³	22.69728	22.69728		25.56	0	0	2.556	2.556	0	89%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.59	12.59		12.5	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.02	1.02		0.96	0	0	1	1	0	106%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.95	0.95		1	0	0	1	1	0	95%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.99	0.99		0.98	0	0	1	1	0	101%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.98	0.98		0.97	0	0	1	1	0	101%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.09	1.09		0.99	0	0	1	1	0	110%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.86	0.86		0.91	0	0	1	1	0	95%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.05	1.05		0.98	0	0	1	1	0	107%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.05	1.05		0.97	0	0	1	1	0	108%	70	130	0%	
1,2-Dichloroethane	A	ppbv	1.04	1.04		0.97	0	0	1	1	0	107%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.09	1.09		0.97	0	0	1	1	0	112%	70	130	0%	
1,3-Butadiene	A	ppbv	1.11	1.11		0.98	0	0	1	1	0	113%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	1.07	1.07		0.97	0	0	1	1	0	110%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1.11	1.11		0.96	0	0	1	1	0	116%	70	130	0%	
1,4-Dioxane	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
2-Butanone	A	ppbv	1	1		0.99	0	0	1	1	0	101%	70	130	0%	
2-Hexanone	A	ppbv	0.79	0.79		0.98	0	0	1	1	0	81%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	0.86	0.86		1.01	0	0	1	1	0	85%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.7	0.7		1	0	0	1	1	0	70%	70	130	0%	
Acetone	A	ppbv	1.03	1.03		1	0	0	1	1	0	103%	70	130	0%	
Benzene	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Benzyl chloride	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
Bromodichloromethane	A	ppbv	0.97	0.97		0.96	0	0	1	1	0	101%	70	130	0%	
Bromoform	A	ppbv	1.02	1.02		0.96	0	0	1	1	0	106%	70	130	0%	
Bromomethane	A	ppbv	1.01	1.01		0.93	0	0	1	1	0	109%	70	130	0%	
Carbon disulfide	A	ppbv	1.03	1.03		0.97	0	0	1	1	0	106%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.99	0.99		0.95	0	0	1	1	0	104%	70	130	0%	
Chlorobenzene	A	ppbv	1.04	1.04		0.99	0	0	1	1	0	105%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Chloroethane	A	ppbv	0.97	0.97		0.92	0	0	1	1	0	105%	70	130	0%	
Chloroform	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
Chloromethane	A	ppbv	1.05	1.05		0.95	0	0	1	1	0	111%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.93	0.93		0.95	0	0	1	1	0	98%	70	130	0%	
Cyclohexane	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Ethanol	A	ppbv	1.03	1.03		0.92	0	0	1	1	0	112%	70	130	0%	
Ethyl acetate	A	ppbv	0.82	0.82		0.98	0	0	1	1	0	84%	70	130	0%	
Ethylbenzene	A	ppbv	1.06	1.06		0.98	0	0	1	1	0	108%	70	130	0%	
Heptane	A	ppbv	1.08	1.08		0.99	0	0	1	1	0	109%	70	130	0%	
Hexachlorobutadiene	A	ppbv	0.91	0.91		0.94	0	0	1	1	0	97%	70	130	0%	
m,p-Xylene	A	ppbv	2.1	2.1		1.92	0	0	2	2	0	109%	70	130	0%	
Methylene chloride	A	ppbv	1.12	1.12		1	0	0	1	1	0	112%	70	130	0%	
n-Hexane	A	ppbv	1.05	1.05		1.01	0	0	1	1	0	104%	70	130	0%	
Naphthalene	A	ppbv	0.99	0.99		0.92	0	0	1	1	0	108%	70	130	0%	
o-Xylene	A	ppbv	1.07	1.07		1	0	0	1	1	0	107%	70	130	0%	
p-Ethyltoluene	A	ppbv	1.07	1.07		0.98	0	0	1	1	0	109%	70	130	0%	
Propylene	A	ppbv	1.13	1.13		1.02	0	0	1	1	0	111%	70	130	0%	
Styrene	A	ppbv	1.02	1.02		0.98	0	0	1	1	0	104%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.01	1.01		0.99	0	0	1	1	0	102%	70	130	0%	
Tetrachloroethene	A	ppbv	1.08	1.08		0.96	0	0	1	1	0	113%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611\4/6/2011 11:53:0		1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	0.94	0.94		1	0	0	1	1	0	94%	70	130	0%	
Toluene	A	ppbv	1.04	1.04		0.98	0	0	1	1	0	106%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	1.03	1.03		0.98	0	0	1	1	0	105%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.86	0.86		0.91	0	0	1	1	0	95%	70	130	0%	
Trichloroethene	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.05	1.05		0.96	0	0	1	1	0	109%	70	130	0%	
Vinyl acetate	A	ppbv	0.86	0.86		0.99	0	0	1	1	0	87%	70	130	0%	
Vinyl chloride	A	ppbv	1.05	1.05		0.94	0	0	1	1	0	112%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.56512	5.56512		5.23776	0	0	5.456	5.456	0	106%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	6.52175	6.52175		6.865	0	0	6.865	6.865	0	95%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.664	7.664		7.51072	0	0	7.664	7.664	0	102%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	5.40144	5.40144		5.34688	0	0	5.456	5.456	0	101%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.96606	3.96606		3.92559	0	0	4.047	4.047	0	101%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.32185	4.32185		3.92535	0	0	3.965	3.965	0	110%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	6.38206	6.38206		6.75311	0	0	7.421	7.421	0	95%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	5.1618	5.1618		4.81768	0	0	4.916	4.916	0	107%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	7.53424	7.53424		7.38048	0	0	7.688	7.688	0	102%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	6.3126	6.3126		5.83164	0	0	6.012	6.012	0	108%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	4.20888	4.20888		3.92559	0	0	4.047	4.047	0	107%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.52858	4.52858		4.52858	0	0	4.621	4.621	0	100%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	5.35844	5.35844		4.76852	0	0	4.916	4.916	0	112%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.45532	2.45532		2.16776	0	0	2.212	2.212	0	113%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	6.43284	6.43284		5.83164	0	0	6.012	6.012	0	110%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	6.67332	6.67332		5.77152	0	0	6.012	6.012	0	116%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	3.604	3.604		3.45984	0	0	3.604	3.604	0	104%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	2.949	2.949		2.91951	0	0	2.949	2.949	0	101%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	3.23663	3.23663		4.01506	0	0	4.097	4.097	0	81%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	2.11388	2.11388		2.48258	0	0	2.458	2.458	0	85%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.8686	2.8686		4.098	0	0	4.098	4.098	0	70%	70	130	0%	
Acetone-ug/m3	C	µg/m³	2.44625	2.44625		2.375	0	0	2.375	2.375	0	103%	70	130	0%	
Benzene-ug/m3	C	µg/m³	3.09915	3.09915		3.0672	0	0	3.195	3.195	0	101%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	4.71107	4.71107		5.02169	0	0	5.177	5.177	0	94%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.49803	6.49803		6.43104	0	0	6.699	6.699	0	101%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	10.54374	10.54374		9.92352	0	0	10.337	10.337	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	3.92183	3.92183		3.61119	0	0	3.883	3.883	0	109%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.20742	3.20742		3.02058	0	0	3.114	3.114	0	106%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	6.22809	6.22809		5.97645	0	0	6.291	6.291	0	104%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.78816	4.78816		4.55796	0	0	4.604	4.604	0	105%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	8.34862	8.34862		8.34862	0	0	8.519	8.519	0	100%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.55886	2.55886		2.42696	0	0	2.638	2.638	0	105%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	5.07832	5.07832		4.78534	0	0	4.883	4.883	0	106%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.16825	2.16825		1.96175	0	0	2.065	2.065	0	111%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.8857	3.8857		3.8857	0	0	3.965	3.965	0	100%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	4.22127	4.22127		4.31205	0	0	4.539	4.539	0	98%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	3.54526	3.54526		3.37316	0	0	3.442	3.442	0	105%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.945	4.945		4.5494	0	0	4.945	4.945	0	109%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.94052	1.94052		1.73328	0	0	1.884	1.884	0	112%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.95446	2.95446		3.53094	0	0	3.603	3.603	0	84%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.60252	4.60252		4.25516	0	0	4.342	4.342	0	108%	70	130	0%	
Heptane-ug/m3	C	µg/m³	4.42692	4.42692		4.05801	0	0	4.099	4.099	0	109%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	9.70515	9.70515		10.0251	0	0	10.665	10.665	0	97%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	18.2364	18.2364		16.67328	0	0	17.368	17.368	0	109%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.89088	3.89088		3.474	0	0	3.474	3.474	0	112%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	3.70125	3.70125		3.56025	0	0	3.525	3.525	0	104%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	5.18958	5.18958		4.82264	0	0	5.242	5.242	0	108%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.64594	4.64594		4.342	0	0	4.342	4.342	0	107%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	5.26012	5.26012		4.81768	0	0	4.916	4.916	0	109%	70	130	0%	
Propylene-ug/m3	C	µg/m³	1.94473	1.94473		1.75542	0	0	1.721	1.721	0	111%	70	130	0%	
Styrene-ug/m3	C	µg/m³	4.3452	4.3452		4.1748	0	0	4.26	4.26	0	104%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.64105	3.64105		3.56895	0	0	3.605	3.605	0	102%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	7.32456	7.32456		6.51072	0	0	6.782	6.782	0	113%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	2.77206	2.77206		2.949	0	0	2.949	2.949	0	94%	70	130	0%	
Toluene-ug/m3	C	µg/m³	3.91976	3.91976		3.69362	0	0	3.769	3.769	0	106%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.08395	4.08395		3.8857	0	0	3.965	3.965	0	105%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.90354	3.90354		4.13049	0	0	4.539	4.539	0	95%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.374	5.374		5.15904	0	0	5.374	5.374	0	104%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	5.8989	5.8989		5.39328	0	0	5.618	5.618	0	109%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	3.02806	3.02806		3.48579	0	0	3.521	3.521	0	87%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753229	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/6/2011 11:53:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	2.6838	2.6838		2.40264	0	0	2.556	2.556	0	112%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.58	12.58		12.5	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040611	4/6/2011 1:20:00	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\I\DATA\040611\	4/6/2011 1:20:00	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\\1\DATA\040611	4/6/2011 1:20:00	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753230	MBLK	EPA_TO15-UG/	MBLK	\1\DATA\040611	4/6/2011 1:20:00	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.19	12.19		12.5	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0.57	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	0.85	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.24	17920		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	2.47	19760		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.08	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.54	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.64	13120		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	3.84	30720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\\1\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	1.35375	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	2.71575	0		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	7.71008	61680.64		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753232	1103389-019B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 5:50:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	10.12453	80996.24		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.37872	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	1.87596	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	5.781	46248		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	14.47296	115783.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.54	100320		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\I\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	0.85	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\\I\DATA\040611\	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.16	17280		0	0	17920	8000	8000	0	0%	0	0	4%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	2.42	19360		0	0	19760	8000	8000	0	0%	0	0	2%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.06	0		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.53	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.62	12960		0	0	13120	8000	8000	0	0%	0	0	1%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	3.8	30400		0	0	30720	8000	8000	0	0%	0	0	1%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\\I\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	2.71575	0		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	7.43472	59477.76		0	0	61680.64	27536	27536	0	0%	0	0	4%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753233	1103389-019BDUP	EPA_TO15-UG/	DUP	\I\DATA\040611	4/6/2011 6:33:00	8000	R39665		0	753232	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	9.91958	79356.64		0	0	80996.24	32792	32792	0	0%	0	0	2%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.20504	0		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	1.84122	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	5.7105	45684		0	0	46248	28200	28200	0	0%	0	0	1%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	14.3222	114577.6		0	0	115783.68	30152	30152	0	0%	0	0	1%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.41	99280		100000	0	100320	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753234	1103389-020B (Container-1 of 1)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/6/2011 7:15:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753241	1103609-017A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 12:56:0	4000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Acetone	A	ppbv	0.81	0		0	0	0	4000	4000	0	0%	0	0	0%	
Benzene	A	ppbv	0.57	0		0	0	0	4000	4000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753241	1103609-017A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\DATA\040611\	4/7/2011 12:56:0	4000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	1.66	6640		0	0	0	4000	4000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Heptane	A	ppbv	2.13	8520		0	0	0	4000	4000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.61	0		0	0	0	8000	8000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.83	0		0	0	0	4000	4000	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.69	6760		0	0	0	4000	4000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Toluene	A	ppbv	1.85	7400		0	0	0	4000	4000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21824	21824	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	27460	27460	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	30656	30656	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21824	21824	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	16188	16188	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753241	1103609-017A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 12:56:0	4000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	29684	29684	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	30752	30752	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	16188	16188	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	18484	18484	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	8848	8848	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	14416	14416	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	11796	11796	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	16388	16388	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	9832	9832	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	16392	16392	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	1.92375	0		0	0	0	9500	9500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	1.82115	0		0	0	0	12780	12780	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20708	20708	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	26796	26796	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	41348	41348	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	15532	15532	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	12456	12456	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	25164	25164	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	18416	18416	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	34076	34076	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10552	10552	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	19532	19532	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	8260	8260	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	18156	18156	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	5.71372	22854.88		0	0	0	13768	13768	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	19780	19780	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753241	1103609-017A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040611	4/7/2011 12:56:0	4000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	7536	7536	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	14412	14412	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	17368	17368	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	8.73087	34923.48		0	0	0	16396	16396	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	42660	42660	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	5.29724	0		0	0	0	69472	69472	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.88342	0		0	0	0	13896	13896	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	5.95725	23829		0	0	0	14100	14100	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	20968	20968	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17368	17368	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	6884	6884	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	17040	17040	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	14420	14420	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	27128	27128	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	11796	11796	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	6.97265	27890.6		0	0	0	15076	15076	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	18156	18156	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	21496	21496	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	22472	22472	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	14084	14084	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	10224	10224	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.41	49640		50000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753242	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040611\4/7/2011 1:39:00		80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	5.59	447200		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753242	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040611	4/7/2011 1:39:00	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	7.33	586400		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0.5	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	2.36	188800		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.37	109600		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	7.8	624000		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	2.1	168000		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753242	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\1\DATA\040611\4/7/2011 1:39:00		80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	17.86005	1428804		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	25.22986	2018388.8		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753242	1103609-008A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 1:39:00	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0.942	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	9.67364	773891.2		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.75938	380750.4		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	27.495	2199600		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	7.9149	633192		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.45	996000		1000000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753243	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 2:21:00	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	4.12	329600		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753243	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 2:21:00	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	6.94	555200		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	3.06	244800		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0.55	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0.6	0		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	7.13	570400		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	6.42	513600		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753243	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\I\DATA\040611	4/7/2011 2:21:00	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	13.1634	1053072		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	23.88748	1910998.4		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753243	1103609-009A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 2:21:00	80000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	12.54294	1003435.2		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	4.7762	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	2.0844	0		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	25.13325	2010660		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	24.19698	1935758.4		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.99	959200		1000000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753244	1103609-005A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611\	4/7/2011 5:12:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	13.83	110640		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753244	1103609-005A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611\	4/7/2011 5:12:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	52.35	418800		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2	16000		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	46.88	375040		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	4.91	39280		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	39.91	319280		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.4	11200		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0.78	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	22.16	177280		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753244	1103609-005A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 5:12:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	44.18685	353494.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	180.1887	1441509.6		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753244	1103609-005A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\\I\DATA\040611	4/7/2011 5:12:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	8.684	69472		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	192.16112	1537288.96		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	42.63844	341107.52		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	140.68275	1125462		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	6.0788	48630.4		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	1.34238	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	83.52104	668168.32		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.63	101040		100000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753245	1103609-010A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040611\	4/7/2011 9:32:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.63	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.74	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	29.77	238160		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753245	1103609-010A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 9:32:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	73.72	589760		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2.51	20080		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	35.25	282000		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	5.21	41680		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	82.87	662960		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.73	13840		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0.61	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	2.89	23120		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	34.41	275280		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753245	1103609-010A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\1\DATA\040611	4/7/2011 9:32:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	3.09708	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	3.63784	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	95.11515	760921.2		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	253.74424	2029953.92		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
753245	1103609-010A (Container-01 of 01)	EPA_TO15-UG/	SAMP	\I\DATA\040611	4/7/2011 9:32:00	8000	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	10.89842	87187.36		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	144.48975	1155918		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	45.24364	361949.12		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	292.11675	2336934		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	7.51166	60093.28		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	2.99876	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	4.97369	39789.52		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	129.69129	1037530.32		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.9	103200		100000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\I\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\1\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0.82	0.82		1	0	0	1	1	0	82%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	0.89	0.89		0.98	0	0	1	1	0	91%	70	130	0%	
1,1-Dichloroethane	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.07	1.07		0.99	0	0	1	1	0	108%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.68	0.68		0.91	0	0	1	1	0	75%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	0.97	0.97		0.98	0	0	1	1	0	99%	70	130	0%	
1,2-Dibromoethane	A	ppbv	0.87	0.87		0.96	0	0	1	1	0	91%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	0.91	0.91		0.97	0	0	1	1	0	94%	70	130	0%	
1,2-Dichloroethane	A	ppbv	0.96	0.96		0.97	0	0	1	1	0	99%	70	130	0%	
1,2-Dichloropropane	A	ppbv	0.87	0.87		0.98	0	0	1	1	0	89%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	0.97	0.97		0.97	0	0	1	1	0	100%	70	130	0%	
1,3-Butadiene	A	ppbv	1.18	1.18		0.98	0	0	1	1	0	120%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	0.93	0.93		0.97	0	0	1	1	0	96%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
1,4-Dioxane	A	ppbv	0.66	0.66		0.96	0	0	1	1	0	69%	70	130	0%	S
2-Butanone	A	ppbv	0.88	0.88		0.99	0	0	1	1	0	89%	70	130	0%	
2-Hexanone	A	ppbv	0.69	0.69		0.98	0	0	1	1	0	70%	70	130	0%	
2-Propanol	A	ppbv	0.8	0.8		1.01	0	0	1	1	0	79%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	0.67	0.67		1	0	0	1	1	0	67%	70	130	0%	S
Acetone	A	ppbv	0.98	0.98		1	0	0	1	1	0	98%	70	130	0%	
Benzene	A	ppbv	2.5	2.5		0.96	0	0	1	1	0	260%	70	130	0%	S
Benzyl chloride	A	ppbv	0.76	0.76		0.97	0	0	1	1	0	78%	70	130	0%	
Bromodichloromethane	A	ppbv	0.9	0.9		0.96	0	0	1	1	0	94%	70	130	0%	
Bromoform	A	ppbv	0.87	0.87		0.96	0	0	1	1	0	91%	70	130	0%	
Bromomethane	A	ppbv	1.04	1.04		0.93	0	0	1	1	0	112%	70	130	0%	
Carbon disulfide	A	ppbv	1.06	1.06		0.97	0	0	1	1	0	109%	70	130	0%	
Carbon tetrachloride	A	ppbv	0.93	0.93		0.95	0	0	1	1	0	98%	70	130	0%	
Chlorobenzene	A	ppbv	0.94	0.94		0.99	0	0	1	1	0	95%	70	130	0%	
Chlorodibromomethane	A	ppbv	0.87	0.87		0.98	0	0	1	1	0	89%	70	130	0%	
Chloroethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Chloroform	A	ppbv	1	1		0.98	0	0	1	1	0	102%	70	130	0%	
Chloromethane	A	ppbv	1.15	1.15		0.95	0	0	1	1	0	121%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0.93	0.93		0.98	0	0	1	1	0	95%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	0.79	0.79		0.95	0	0	1	1	0	83%	70	130	0%	
Cyclohexane	A	ppbv	7.12	7.12		0.98	0	0	1	1	0	727%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1	1		0.92	0	0	1	1	0	109%	70	130	0%	
Ethanol	A	ppbv	0.85	0.85		0.92	0	0	1	1	0	92%	70	130	0%	
Ethyl acetate	A	ppbv	0.78	0.78		0.98	0	0	1	1	0	80%	70	130	0%	
Ethylbenzene	A	ppbv	1.06	1.06		0.98	0	0	1	1	0	108%	70	130	0%	
Heptane	A	ppbv	3.47	3.47		0.99	0	0	1	1	0	351%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	0.85	0.85		0.94	0	0	1	1	0	90%	70	130	0%	
m,p-Xylene	A	ppbv	2.16	2.16		1.92	0	0	2	2	0	113%	70	130	0%	
Methylene chloride	A	ppbv	1.1	1.1		1	0	0	1	1	0	110%	70	130	0%	
n-Hexane	A	ppbv	7.4	7.4		1.01	0	0	1	1	0	733%	70	130	0%	S
Naphthalene	A	ppbv	0.65	0.65		0.92	0	0	1	1	0	71%	70	130	0%	
o-Xylene	A	ppbv	1.03	1.03		1	0	0	1	1	0	103%	70	130	0%	
p-Ethyltoluene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
Propylene	A	ppbv	1.26	1.26		1.02	0	0	1	1	0	124%	70	130	0%	
Styrene	A	ppbv	0.91	0.91		0.98	0	0	1	1	0	93%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	0.91	0.91		0.99	0	0	1	1	0	92%	70	130	0%	
Tetrachloroethene	A	ppbv	0.99	0.99		0.96	0	0	1	1	0	103%	70	130	0%	
Tetrahydrofuran	A	ppbv	2.34	2.34		1	0	0	1	1	0	234%	70	130	0%	S
Toluene	A	ppbv	2.66	2.66		0.98	0	0	1	1	0	271%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	0.98	0.98		0.98	0	0	1	1	0	100%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	0.74	0.74		0.91	0	0	1	1	0	81%	70	130	0%	
Trichloroethene	A	ppbv	0.94	0.94		0.96	0	0	1	1	0	98%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.07	1.07		0.96	0	0	1	1	0	111%	70	130	0%	
Vinyl acetate	A	ppbv	0.75	0.75		0.99	0	0	1	1	0	76%	70	130	0%	
Vinyl chloride	A	ppbv	1.12	1.12		0.94	0	0	1	1	0	119%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	5.34688	5.34688		5.23776	0	0	5.456	5.456	0	102%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	5.6293	5.6293		6.865	0	0	6.865	6.865	0	82%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	7.43408	7.43408		7.51072	0	0	7.664	7.664	0	99%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	4.85584	4.85584		5.34688	0	0	5.456	5.456	0	91%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	3.68277	3.68277		3.92559	0	0	4.047	4.047	0	94%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.24255	4.24255		3.92535	0	0	3.965	3.965	0	108%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.04628	5.04628		6.75311	0	0	7.421	7.421	0	75%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\1\DATA\040611	4/7/2011 10:15:0	1	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.81768	0	0	4.916	4.916	0	99%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	6.68856	6.68856		7.38048	0	0	7.688	7.688	0	91%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	5.47092	5.47092		5.83164	0	0	6.012	6.012	0	94%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	3.88512	3.88512		3.92559	0	0	4.047	4.047	0	99%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	4.02027	4.02027		4.52858	0	0	4.621	4.621	0	89%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	4.76852	4.76852		4.76852	0	0	4.916	4.916	0	100%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	2.61016	2.61016		2.16776	0	0	2.212	2.212	0	120%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	5.59116	5.59116		5.83164	0	0	6.012	6.012	0	96%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	5.65128	5.65128		5.77152	0	0	6.012	6.012	0	98%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	2.37864	2.37864		3.45984	0	0	3.604	3.604	0	69%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	2.59512	2.59512		2.91951	0	0	2.949	2.949	0	89%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	2.82693	2.82693		4.01506	0	0	4.097	4.097	0	70%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	1.9664	1.9664		2.48258	0	0	2.458	2.458	0	79%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	2.74566	2.74566		4.098	0	0	4.098	4.098	0	67%	70	130	0%	S
Acetone-ug/m3	C	µg/m³	2.3275	2.3275		2.375	0	0	2.375	2.375	0	98%	70	130	0%	
Benzene-ug/m3	C	µg/m³	7.9875	7.9875		3.0672	0	0	3.195	3.195	0	260%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	3.93452	3.93452		5.02169	0	0	5.177	5.177	0	78%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	6.0291	6.0291		6.43104	0	0	6.699	6.699	0	94%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	8.99319	8.99319		9.92352	0	0	10.337	10.337	0	91%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	4.03832	4.03832		3.61119	0	0	3.883	3.883	0	112%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.30084	3.30084		3.02058	0	0	3.114	3.114	0	109%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	5.85063	5.85063		5.97645	0	0	6.291	6.291	0	98%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	4.32776	4.32776		4.55796	0	0	4.604	4.604	0	95%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	7.41153	7.41153		8.34862	0	0	8.519	8.519	0	89%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.638	2.638		2.42696	0	0	2.638	2.638	0	109%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	4.883	4.883		4.78534	0	0	4.883	4.883	0	102%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.37475	2.37475		1.96175	0	0	2.065	2.065	0	121%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	3.68745	3.68745		3.8857	0	0	3.965	3.965	0	95%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	3.58581	3.58581		4.31205	0	0	4.539	4.539	0	83%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	24.50704	24.50704		3.37316	0	0	3.442	3.442	0	727%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	4.945	4.945		4.5494	0	0	4.945	4.945	0	109%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	1.6014	1.6014		1.73328	0	0	1.884	1.884	0	92%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	2.81034	2.81034		3.53094	0	0	3.603	3.603	0	80%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.60252	4.60252		4.25516	0	0	4.342	4.342	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756185	TO15 RLVS 40cc v	EPA_TO15-UG/	RLVS	\\I\DATA\040611'4/7/2011 10:15:0		I	R39665		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	14.22353	14.22353		4.05801	0	0	4.099	4.099	0	351%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	9.06525	9.06525		10.0251	0	0	10.665	10.665	0	90%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	18.75744	18.75744		16.67328	0	0	17.368	17.368	0	113%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	3.8214	3.8214		3.474	0	0	3.474	3.474	0	110%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	26.085	26.085		3.56025	0	0	3.525	3.525	0	733%	70	130	0%	S
Naphthalene-ug/m3	C	µg/m³	3.4073	3.4073		4.82264	0	0	5.242	5.242	0	71%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	4.47226	4.47226		4.342	0	0	4.342	4.342	0	103%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	4.81768	4.81768		4.81768	0	0	4.916	4.916	0	100%	70	130	0%	
Propylene-ug/m3	C	µg/m³	2.16846	2.16846		1.75542	0	0	1.721	1.721	0	124%	70	130	0%	
Styrene-ug/m3	C	µg/m³	3.8766	3.8766		4.1748	0	0	4.26	4.26	0	93%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	3.28055	3.28055		3.56895	0	0	3.605	3.605	0	92%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	6.71418	6.71418		6.51072	0	0	6.782	6.782	0	103%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	6.90066	6.90066		2.949	0	0	2.949	2.949	0	234%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	10.02554	10.02554		3.69362	0	0	3.769	3.769	0	271%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	3.8857	3.8857		3.8857	0	0	3.965	3.965	0	100%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	3.35886	3.35886		4.13049	0	0	4.539	4.539	0	81%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	5.05156	5.05156		5.15904	0	0	5.374	5.374	0	98%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	6.01126	6.01126		5.39328	0	0	5.618	5.618	0	111%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	2.64075	2.64075		3.48579	0	0	3.521	3.521	0	76%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	2.86272	2.86272		2.40264	0	0	2.556	2.556	0	119%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.51	12.51		12.5	0	0	0	0	0	100%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39697

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754004	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040711	4/7/2011 11:47:0	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.2	0.2		0	0	0	0	0	0	0%	0	2	0%	
174	M		89.1	89.1		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.3	7.3		0	0	0	0	0	0	0%	4	9	0%	
176	M		98	98		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.6	17.6		0	0	0	0	0	0	0%	8	40	0%	
75	M		46.4	46.4		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754005	TO15 L2 40cc voa	EPA_TO15	ICAL	\I\DATA\040711	4/7/2011 2:20:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.12	1.12		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1	1		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.16	1.16		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	1.02	1.02		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	1.13	1.13		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	1.18	1.18		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	1.07	1.07		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.07	1.07		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	1.02	1.02		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	1.09	1.09		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	1.11	1.11		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	1.04	1.04		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.07	1.07		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	1.21	1.21		0	0	0	0.5	0.5	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	1.11	1.11		0	0	0	0.5	0.5	0	0%	0	0	0%	

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754013	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040711	4/7/2011 7:47:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.4	0.4		0	0	0	0	0	0	0%	0	2	0%	
174	M		87.5	87.5		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.3	7.3		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.3	98.3		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.1	17.1		0	0	0	0	0	0	0%	8	40	0%	
75	M		45.9	45.9		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754014	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040711	4/7/2011 8:27:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	10.34	10.34		10	0	0	1	1	0	103%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.79	1.79		4.17	0	0	1	1	0	43%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	9.77	9.77		9.8	0	0	1	1	0	100%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	10.12	10.12		10	0	0	1	1	0	101%	70	130	0%	
1,1-Dichloroethane	A	ppbv	10.79	10.79		10	0	0	1	1	0	108%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.74	8.74		10	0	0	1	1	0	87%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	7.94	7.94		10.6	0	0	1	1	0	75%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	9.74	9.74		10	0	0	1	1	0	97%	70	130	0%	
1,2-Dibromoethane	A	ppbv	8.76	8.76		10	0	0	1	1	0	88%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	9.7	9.7		10	0	0	1	1	0	97%	70	130	0%	
1,2-Dichloroethane	A	ppbv	10.91	10.91		10	0	0	1	1	0	109%	70	130	0%	
1,2-Dichloropropane	A	ppbv	10.95	10.95		10	0	0	1	1	0	110%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	10.21	10.21		10	0	0	1	1	0	102%	70	130	0%	
1,3-Butadiene	A	ppbv	10.62	10.62		10	0	0	1	1	0	106%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	9.8	9.8		10	0	0	1	1	0	98%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	9.7	9.7		10.2	0	0	1	1	0	95%	70	130	0%	
1,4-Dioxane	A	ppbv	10.18	10.18		10	0	0	1	1	0	102%	70	130	0%	
2-Butanone	A	ppbv	11.88	11.88		10.2	0	0	1	1	0	116%	70	130	0%	
2-Hexanone	A	ppbv	15.46	15.46		10	0	0	1	1	0	155%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754014	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040711	4/7/2011 8:27:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	12.79	12.79		10	0	0	1	1	0	128%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	13.64	13.64		10.6	0	0	1	1	0	129%	70	130	0%	
Acetone	A	ppbv	11.32	11.32		10	0	0	1	1	0	113%	70	130	0%	
Benzene	A	ppbv	11.38	11.38		10	0	0	1	1	0	114%	70	130	0%	
Benzyl chloride	A	ppbv	3.23	3.23		5.4	0	0	1	1	0	60%	70	130	0%	S
Bromodichloromethane	A	ppbv	10.98	10.98		10.2	0	0	1	1	0	108%	70	130	0%	
Bromoform	A	ppbv	10.2	10.2		9.8	0	0	1	1	0	104%	70	130	0%	
Bromomethane	A	ppbv	5.49	5.49		10	0	0	1	1	0	55%	70	130	0%	S
Carbon disulfide	A	ppbv	8.92	8.92		10	0	0	1	1	0	89%	70	130	0%	
Carbon tetrachloride	A	ppbv	10.62	10.62		10	0	0	1	1	0	106%	70	130	0%	
Chlorobenzene	A	ppbv	10.45	10.45		10	0	0	1	1	0	105%	70	130	0%	
Chlorodibromomethane	A	ppbv	10.57	10.57		10	0	0	1	1	0	106%	70	130	0%	
Chloroethane	A	ppbv	7.53	7.53		10	0	0	1	1	0	75%	70	130	0%	
Chloroform	A	ppbv	10.54	10.54		10.2	0	0	1	1	0	103%	70	130	0%	
Chloromethane	A	ppbv	11.81	11.81		10.2	0	0	1	1	0	116%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	10.72	10.72		10	0	0	1	1	0	107%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	10.32	10.32		10.6	0	0	1	1	0	97%	70	130	0%	
Cyclohexane	A	ppbv	10.35	10.35		10.2	0	0	1	1	0	101%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	9.57	9.57		10	0	0	1	1	0	96%	70	130	0%	
Ethanol	A	ppbv	13.2	13.2		12.2	0	0	1	1	0	108%	70	130	0%	
Ethyl acetate	A	ppbv	11.55	11.55		10	0	0	1	1	0	116%	70	130	0%	
Ethylbenzene	A	ppbv	11.63	11.63		10	0	0	1	1	0	116%	70	130	0%	
Heptane	A	ppbv	10.88	10.88		10	0	0	1	1	0	109%	70	130	0%	
Hexachlorobutadiene	A	ppbv	8.43	8.43		9.8	0	0	1	1	0	86%	70	130	0%	
m,p-Xylene	A	ppbv	21.92	21.92		20	0	0	2	2	0	110%	70	130	0%	
Methylene chloride	A	ppbv	9.49	9.49		9.8	0	0	1	1	0	97%	70	130	0%	
n-Hexane	A	ppbv	9.8	9.8		10.2	0	0	1	1	0	96%	70	130	0%	
Naphthalene	A	ppbv	7.91	7.91		10	0	0	1	1	0	79%	70	130	0%	
o-Xylene	A	ppbv	11.39	11.39		10	0	0	1	1	0	114%	70	130	0%	
p-Ethyltoluene	A	ppbv	9.96	9.96		10.6	0	0	1	1	0	94%	70	130	0%	
Propylene	A	ppbv	10.72	10.72		10	0	0	1	1	0	107%	70	130	0%	
Styrene	A	ppbv	11.32	11.32		10	0	0	1	1	0	113%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	11.37	11.37		10	0	0	1	1	0	114%	70	130	0%	
Tetrachloroethene	A	ppbv	10.64	10.64		10	0	0	1	1	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754014	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040711\4/7/2011 8:27:00		1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	12.23	12.23		10	0	0	1	1	0	122%	70	130	0%	
Toluene	A	ppbv	11.67	11.67		10	0	0	1	1	0	117%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	9.88	9.88		10	0	0	1	1	0	99%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	9.4	9.4		9.4	0	0	1	1	0	100%	70	130	0%	
Trichloroethene	A	ppbv	18.23	18.23		13.6	0	0	1	1	0	134%	70	130	0%	S
Trichlorofluoromethane	A	ppbv	9.39	9.39		10	0	0	1	1	0	94%	70	130	0%	
Vinyl acetate	A	ppbv	10.12	10.12		10	0	0	1	1	0	101%	70	130	0%	
Vinyl chloride	A	ppbv	9.88	9.88		10	0	0	1	1	0	99%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	56.41504	56.41504		54.56	0	0	5.456	5.456	0	103%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	12.28835	12.28835		28.62705	0	0	6.865	6.865	0	43%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	74.87728	74.87728		75.1072	0	0	7.664	7.664	0	100%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	55.21472	55.21472		54.56	0	0	5.456	5.456	0	101%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	43.66713	43.66713		40.47	0	0	4.047	4.047	0	108%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	34.6541	34.6541		39.65	0	0	3.965	3.965	0	87%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	58.92274	58.92274		78.6626	0	0	7.421	7.421	0	75%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	47.88184	47.88184		49.16	0	0	4.916	4.916	0	97%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	67.34688	67.34688		76.88	0	0	7.688	7.688	0	88%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	58.3164	58.3164		60.12	0	0	6.012	6.012	0	97%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	44.15277	44.15277		40.47	0	0	4.047	4.047	0	109%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	50.59995	50.59995		46.21	0	0	4.621	4.621	0	110%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	50.19236	50.19236		49.16	0	0	4.916	4.916	0	102%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	23.49144	23.49144		22.12	0	0	2.212	2.212	0	106%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	58.9176	58.9176		60.12	0	0	6.012	6.012	0	98%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	58.3164	58.3164		61.3224	0	0	6.012	6.012	0	95%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	36.68872	36.68872		36.04	0	0	3.604	3.604	0	102%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	35.03412	35.03412		30.0798	0	0	2.949	2.949	0	116%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	63.33962	63.33962		40.97	0	0	4.097	4.097	0	155%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	31.43782	31.43782		24.58	0	0	2.458	2.458	0	128%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	55.89672	55.89672		43.4388	0	0	4.098	4.098	0	129%	70	130	0%	
Acetone-ug/m3	C	µg/m³	26.885	26.885		23.75	0	0	2.375	2.375	0	113%	70	130	0%	
Benzene-ug/m3	C	µg/m³	36.3591	36.3591		31.95	0	0	3.195	3.195	0	114%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	16.72171	16.72171		27.9558	0	0	5.177	5.177	0	60%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	73.55502	73.55502		68.3298	0	0	6.699	6.699	0	108%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	105.4374	105.4374		101.3026	0	0	10.337	10.337	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754014	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\1\DATA\040711	4/7/2011 8:27:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	21.31767	21.31767		38.83	0	0	3.883	3.883	0	55%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	27.77688	27.77688		31.14	0	0	3.114	3.114	0	89%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	66.81042	66.81042		62.91	0	0	6.291	6.291	0	106%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	48.1118	48.1118		46.04	0	0	4.604	4.604	0	105%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	90.04583	90.04583		85.19	0	0	8.519	8.519	0	106%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	19.86414	19.86414		26.38	0	0	2.638	2.638	0	75%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	51.46682	51.46682		49.8066	0	0	4.883	4.883	0	103%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	24.38765	24.38765		21.063	0	0	2.065	2.065	0	116%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	42.5048	42.5048		39.65	0	0	3.965	3.965	0	107%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	46.84248	46.84248		48.1134	0	0	4.539	4.539	0	97%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	35.6247	35.6247		35.1084	0	0	3.442	3.442	0	101%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	47.32365	47.32365		49.45	0	0	4.945	4.945	0	96%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	24.8688	24.8688		22.9848	0	0	1.884	1.884	0	108%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	41.61465	41.61465		36.03	0	0	3.603	3.603	0	116%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	50.49746	50.49746		43.42	0	0	4.342	4.342	0	116%	70	130	0%	
Heptane-ug/m3	C	µg/m³	44.59712	44.59712		40.99	0	0	4.099	4.099	0	109%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	89.90595	89.90595		104.517	0	0	10.665	10.665	0	86%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	190.35328	190.35328		173.68	0	0	17.368	17.368	0	110%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	32.96826	32.96826		34.0452	0	0	3.474	3.474	0	97%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	34.545	34.545		35.955	0	0	3.525	3.525	0	96%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	41.46422	41.46422		52.42	0	0	5.242	5.242	0	79%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	49.45538	49.45538		43.42	0	0	4.342	4.342	0	114%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	48.96336	48.96336		52.1096	0	0	4.916	4.916	0	94%	70	130	0%	
Propylene-ug/m3	C	µg/m³	18.44912	18.44912		17.21	0	0	1.721	1.721	0	107%	70	130	0%	
Styrene-ug/m3	C	µg/m³	48.2232	48.2232		42.6	0	0	4.26	4.26	0	113%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	40.98885	40.98885		36.05	0	0	3.605	3.605	0	114%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	72.16048	72.16048		67.82	0	0	6.782	6.782	0	106%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	36.06627	36.06627		29.49	0	0	2.949	2.949	0	122%	70	130	0%	
Toluene-ug/m3	C	µg/m³	43.98423	43.98423		37.69	0	0	3.769	3.769	0	117%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	39.1742	39.1742		39.65	0	0	3.965	3.965	0	99%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	42.6666	42.6666		42.6666	0	0	4.539	4.539	0	100%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	97.96802	97.96802		73.0864	0	0	5.374	5.374	0	134%	70	130	0%	S
Trichlorofluoromethane-ug/m3	C	µg/m³	52.75302	52.75302		56.18	0	0	5.618	5.618	0	94%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	35.63252	35.63252		35.21	0	0	3.521	3.521	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754014	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040711	4/7/2011 8:27:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	25.25328	25.25328		25.56	0	0	2.556	2.556	0	99%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.46	12.46		12.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754015	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711	4/7/2011 9:07:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.3	1.3		0.96	0	0	1	1	0	135%	70	130	0%	S
1,1,2,2-Tetrachloroethane	A	ppbv	1.25	1.25		1	0	0	1	1	0	125%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.25	1.25		0.98	0	0	1	1	0	128%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1.36	1.36		0.98	0	0	1	1	0	139%	70	130	0%	S
1,1-Dichloroethane	A	ppbv	1.3	1.3		0.97	0	0	1	1	0	134%	70	130	0%	S
1,1-Dichloroethene	A	ppbv	1.27	1.27		0.99	0	0	1	1	0	128%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.91	0.91		0.91	0	0	1	1	0	100%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.47	1.47		0.98	0	0	1	1	0	150%	70	130	0%	S
1,2-Dibromoethane	A	ppbv	1.33	1.33		0.96	0	0	1	1	0	139%	70	130	0%	S
1,2-Dichlorobenzene	A	ppbv	1.45	1.45		0.97	0	0	1	1	0	149%	70	130	0%	S
1,2-Dichloroethane	A	ppbv	1.45	1.45		0.97	0	0	1	1	0	149%	70	130	0%	S
1,2-Dichloropropane	A	ppbv	1.37	1.37		0.98	0	0	1	1	0	140%	70	130	0%	S
1,3,5-Trimethylbenzene	A	ppbv	1.54	1.54		0.97	0	0	1	1	0	159%	70	130	0%	S
1,3-Butadiene	A	ppbv	1.31	1.31		0.98	0	0	1	1	0	134%	70	130	0%	S
1,3-Dichlorobenzene	A	ppbv	1.43	1.43		0.97	0	0	1	1	0	147%	70	130	0%	S
1,4-Dichlorobenzene	A	ppbv	1.38	1.38		0.96	0	0	1	1	0	144%	70	130	0%	S
1,4-Dioxane	A	ppbv	1.43	1.43		0.96	0	0	1	1	0	149%	70	130	0%	S
2-Butanone	A	ppbv	1.5	1.5		0.99	0	0	1	1	0	152%	70	130	0%	S
2-Hexanone	A	ppbv	1.17	1.17		0.98	0	0	1	1	0	119%	70	130	0%	
2-Propanol	A	ppbv	1.37	1.37		1.01	0	0	1	1	0	136%	70	130	0%	S
4-Methyl-2-pentanone	A	ppbv	1.2	1.2		1	0	0	1	1	0	120%	70	130	0%	
Acetone	A	ppbv	1.55	1.55		1	0	0	1	1	0	155%	70	130	0%	S
Benzene	A	ppbv	1.39	1.39		0.96	0	0	1	1	0	145%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754015	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711\4/7/2011 9:07:00		1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzyl chloride	A	ppbv	1.27	1.27		0.97	0	0	1	1	0	131%	70	130	0%	S
Bromodichloromethane	A	ppbv	1.31	1.31		0.96	0	0	1	1	0	136%	70	130	0%	S
Bromoform	A	ppbv	1.36	1.36		0.96	0	0	1	1	0	142%	70	130	0%	S
Bromomethane	A	ppbv	1.12	1.12		0.93	0	0	1	1	0	120%	70	130	0%	
Carbon disulfide	A	ppbv	1.23	1.23		0.97	0	0	1	1	0	127%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.29	1.29		0.95	0	0	1	1	0	136%	70	130	0%	S
Chlorobenzene	A	ppbv	1.45	1.45		0.99	0	0	1	1	0	146%	70	130	0%	S
Chlorodibromomethane	A	ppbv	1.31	1.31		0.98	0	0	1	1	0	134%	70	130	0%	S
Chloroethane	A	ppbv	1.12	1.12		0.92	0	0	1	1	0	122%	70	130	0%	
Chloroform	A	ppbv	1.34	1.34		0.98	0	0	1	1	0	137%	70	130	0%	S
Chloromethane	A	ppbv	1.22	1.22		0.95	0	0	1	1	0	128%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	1.27	1.27		0.98	0	0	1	1	0	130%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	1.28	1.28		0.95	0	0	1	1	0	135%	70	130	0%	S
Cyclohexane	A	ppbv	1.28	1.28		0.98	0	0	1	1	0	131%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1.15	1.15		0.92	0	0	1	1	0	125%	70	130	0%	
Ethanol	A	ppbv	1.57	1.57		0.92	0	0	1	1	0	171%	70	130	0%	S
Ethyl acetate	A	ppbv	1.39	1.39		0.98	0	0	1	1	0	142%	70	130	0%	S
Ethylbenzene	A	ppbv	1.51	1.51		0.98	0	0	1	1	0	154%	70	130	0%	S
Heptane	A	ppbv	1.37	1.37		0.99	0	0	1	1	0	138%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	1.4	1.4		0.94	0	0	1	1	0	149%	70	130	0%	S
m,p-Xylene	A	ppbv	3.08	3.08		1.92	0	0	2	2	0	160%	70	130	0%	S
Methylene chloride	A	ppbv	1.33	1.33		1	0	0	1	1	0	133%	70	130	0%	S
n-Hexane	A	ppbv	1.3	1.3		1.01	0	0	1	1	0	129%	70	130	0%	
Naphthalene	A	ppbv	1.08	1.08		0.92	0	0	1	1	0	117%	70	130	0%	
o-Xylene	A	ppbv	1.5	1.5		1	0	0	1	1	0	150%	70	130	0%	S
p-Ethyltoluene	A	ppbv	1.48	1.48		0.98	0	0	1	1	0	151%	70	130	0%	S
Propylene	A	ppbv	1.26	1.26		1.02	0	0	1	1	0	124%	70	130	0%	
Styrene	A	ppbv	1.4	1.4		0.98	0	0	1	1	0	143%	70	130	0%	S
tert-Butyl Methyl Ether	A	ppbv	1.53	1.53		0.99	0	0	1	1	0	155%	70	130	0%	S
Tetrachloroethene	A	ppbv	1.38	1.38		0.96	0	0	1	1	0	144%	70	130	0%	S
Tetrahydrofuran	A	ppbv	1.39	1.39		1	0	0	1	1	0	139%	70	130	0%	S
Toluene	A	ppbv	1.44	1.44		0.98	0	0	1	1	0	147%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	1.25	1.25		0.98	0	0	1	1	0	128%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	1.21	1.21		0.91	0	0	1	1	0	133%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754015	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711\	4/7/2011 9:07:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Trichloroethene	A	ppbv	1.4	1.4		0.96	0	0	1	1	0	146%	70	130	0%	S
Trichlorofluoromethane	A	ppbv	1.24	1.24		0.96	0	0	1	1	0	129%	70	130	0%	
Vinyl acetate	A	ppbv	1.39	1.39		0.99	0	0	1	1	0	140%	70	130	0%	S
Vinyl chloride	A	ppbv	1.21	1.21		0.94	0	0	1	1	0	129%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	7.0928	7.0928		5.23776	0	0	5.456	5.456	0	135%	70	130	0%	S
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	8.58125	8.58125		6.865	0	0	6.865	6.865	0	125%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	9.58	9.58		7.51072	0	0	7.664	7.664	0	128%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	7.42016	7.42016		5.34688	0	0	5.456	5.456	0	139%	70	130	0%	S
1,1-Dichloroethane-ug/m3	C	µg/m³	5.2611	5.2611		3.92559	0	0	4.047	4.047	0	134%	70	130	0%	S
1,1-Dichloroethene-ug/m3	C	µg/m³	5.03555	5.03555		3.92535	0	0	3.965	3.965	0	128%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	6.75311	6.75311		6.75311	0	0	7.421	7.421	0	100%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	7.22652	7.22652		4.81768	0	0	4.916	4.916	0	150%	70	130	0%	S
1,2-Dibromoethane-ug/m3	C	µg/m³	10.22504	10.22504		7.38048	0	0	7.688	7.688	0	139%	70	130	0%	S
1,2-Dichlorobenzene-ug/m3	C	µg/m³	8.7174	8.7174		5.83164	0	0	6.012	6.012	0	149%	70	130	0%	S
1,2-Dichloroethane-ug/m3	C	µg/m³	5.86815	5.86815		3.92559	0	0	4.047	4.047	0	149%	70	130	0%	S
1,2-Dichloropropane-ug/m3	C	µg/m³	6.33077	6.33077		4.52858	0	0	4.621	4.621	0	140%	70	130	0%	S
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	7.57064	7.57064		4.76852	0	0	4.916	4.916	0	159%	70	130	0%	S
1,3-Butadiene-ug/m3	C	µg/m³	2.89772	2.89772		2.16776	0	0	2.212	2.212	0	134%	70	130	0%	S
1,3-Dichlorobenzene-ug/m3	C	µg/m³	8.59716	8.59716		5.83164	0	0	6.012	6.012	0	147%	70	130	0%	S
1,4-Dichlorobenzene-ug/m3	C	µg/m³	8.29656	8.29656		5.77152	0	0	6.012	6.012	0	144%	70	130	0%	S
1,4-Dioxane-ug/m3	C	µg/m³	5.15372	5.15372		3.45984	0	0	3.604	3.604	0	149%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	4.4235	4.4235		2.91951	0	0	2.949	2.949	0	152%	70	130	0%	S
2-Hexanone-ug/m3	C	µg/m³	4.79349	4.79349		4.01506	0	0	4.097	4.097	0	119%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	3.36746	3.36746		2.48258	0	0	2.458	2.458	0	136%	70	130	0%	S
4-Methyl-2-pentanone-ug/m3	C	µg/m³	4.9176	4.9176		4.098	0	0	4.098	4.098	0	120%	70	130	0%	
Acetone-ug/m3	C	µg/m³	3.68125	3.68125		2.375	0	0	2.375	2.375	0	155%	70	130	0%	S
Benzene-ug/m3	C	µg/m³	4.44105	4.44105		3.0672	0	0	3.195	3.195	0	145%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	6.57479	6.57479		5.02169	0	0	5.177	5.177	0	131%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	8.77569	8.77569		6.43104	0	0	6.699	6.699	0	136%	70	130	0%	S
Bromoform-ug/m3	C	µg/m³	14.05832	14.05832		9.92352	0	0	10.337	10.337	0	142%	70	130	0%	S
Bromomethane-ug/m3	C	µg/m³	4.34896	4.34896		3.61119	0	0	3.883	3.883	0	120%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.83022	3.83022		3.02058	0	0	3.114	3.114	0	127%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	8.11539	8.11539		5.97645	0	0	6.291	6.291	0	136%	70	130	0%	S
Chlorobenzene-ug/m3	C	µg/m³	6.6758	6.6758		4.55796	0	0	4.604	4.604	0	146%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754015	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711\	4/7/2011 9:07:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chlorodibromomethane-ug/m3	C	µg/m³	11.15989	11.15989		8.34862	0	0	8.519	8.519	0	134%	70	130	0%	S
Chloroethane-ug/m3	C	µg/m³	2.95456	2.95456		2.42696	0	0	2.638	2.638	0	122%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	6.54322	6.54322		4.78534	0	0	4.883	4.883	0	137%	70	130	0%	S
Chloromethane-ug/m3	C	µg/m³	2.5193	2.5193		1.96175	0	0	2.065	2.065	0	128%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	5.03555	5.03555		3.8857	0	0	3.965	3.965	0	130%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	5.80992	5.80992		4.31205	0	0	4.539	4.539	0	135%	70	130	0%	S
Cyclohexane-ug/m3	C	µg/m³	4.40576	4.40576		3.37316	0	0	3.442	3.442	0	131%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	5.68675	5.68675		4.5494	0	0	4.945	4.945	0	125%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	2.95788	2.95788		1.73328	0	0	1.884	1.884	0	171%	70	130	0%	S
Ethyl acetate-ug/m3	C	µg/m³	5.00817	5.00817		3.53094	0	0	3.603	3.603	0	142%	70	130	0%	S
Ethyl benzene-ug/m3	C	µg/m³	6.55642	6.55642		4.25516	0	0	4.342	4.342	0	154%	70	130	0%	S
Heptane-ug/m3	C	µg/m³	5.61563	5.61563		4.05801	0	0	4.099	4.099	0	138%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	14.931	14.931		10.0251	0	0	10.665	10.665	0	149%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	26.74672	26.74672		16.67328	0	0	17.368	17.368	0	160%	70	130	0%	S
Methylene chloride-ug/m3	C	µg/m³	4.62042	4.62042		3.474	0	0	3.474	3.474	0	133%	70	130	0%	S
n-Hexane-ug/m3	C	µg/m³	4.5825	4.5825		3.56025	0	0	3.525	3.525	0	129%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	5.66136	5.66136		4.82264	0	0	5.242	5.242	0	117%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	6.513	6.513		4.342	0	0	4.342	4.342	0	150%	70	130	0%	S
p-Ethyltoluene-ug/m3	C	µg/m³	7.27568	7.27568		4.81768	0	0	4.916	4.916	0	151%	70	130	0%	S
Propylene-ug/m3	C	µg/m³	2.16846	2.16846		1.75542	0	0	1.721	1.721	0	124%	70	130	0%	
Styrene-ug/m3	C	µg/m³	5.964	5.964		4.1748	0	0	4.26	4.26	0	143%	70	130	0%	S
tert-Butyl methyl ether-ug/m3	C	µg/m³	5.51565	5.51565		3.56895	0	0	3.605	3.605	0	155%	70	130	0%	S
Tetrachloroethene-ug/m3	C	µg/m³	9.35916	9.35916		6.51072	0	0	6.782	6.782	0	144%	70	130	0%	S
Tetrahydrofuran-ug/m3	C	µg/m³	4.09911	4.09911		2.949	0	0	2.949	2.949	0	139%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	5.42736	5.42736		3.69362	0	0	3.769	3.769	0	147%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.95625	4.95625		3.8857	0	0	3.965	3.965	0	128%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	5.49219	5.49219		4.13049	0	0	4.539	4.539	0	133%	70	130	0%	S
Trichloroethene-ug/m3	C	µg/m³	7.5236	7.5236		5.15904	0	0	5.374	5.374	0	146%	70	130	0%	S
Trichlorofluoromethane-ug/m3	C	µg/m³	6.96632	6.96632		5.39328	0	0	5.618	5.618	0	129%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	4.89419	4.89419		3.48579	0	0	3.521	3.521	0	140%	70	130	0%	S
Vinyl chloride-ug/m3	C	µg/m³	3.09276	3.09276		2.40264	0	0	2.556	2.556	0	129%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754015	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711	4/7/2011 9:07:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	ppbv	12.17	12.17		12.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754016	MBLK 040711	EPA_TO15-ug/	MBLK	\I\DATA\040711	4/7/2011 9:50:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754016	MBLK 040711	EPA_TO15-ug/	MBLK	\1\DATA\040711\4/7/2011 9:50:00		1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754016	MBLK 040711	EPA_TO15-ug/	MBLK	\\I\DATA\040711\	4/7/2011 9:50:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754016	MBLK 040711	EPA_TO15-ug/	MBLK	\\I\DATA\040711	4/7/2011 9:50:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.9	11.9		12.5	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754017	1103609-011A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\DATA\040711	4/7/2011 10:30:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	4.49	35920		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754017	1103609-011A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\	4/7/2011 10:30:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	8.98	71840		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2.04	16320		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	8.26	66080		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	4.69	37520		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	5.52	44160		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.68	13440		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	13.84	110720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754017	1103609-011A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/7/2011 10:30:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	14.34555	114764.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	30.90916	247273.28		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754017	1103609-011A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/7/2011 10:30:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	8.85768	70861.44		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	33.85774	270861.92		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	40.72796	325823.68		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	19.458	155664		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	7.29456	58356.48		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	52.16296	417303.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.41	99280		100000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754018	1103609-011ADUP	EPA_TO15-ug/	DUP	\I\DATA\040711	4/7/2011 11:10:0	8000	R39697		0	754017	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

239 of 1498

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754018	1103609-011ADUP	EPA_TO15-ug/	DUP	\I\DATA\040711\4/7/2011 11:10:0		8000	R39697		0	754017	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	4.51	36080		0	0	35920	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754018	1103609-011ADUP	EPA_TO15-ug/	DUP	\\1\DATA\040711	4/7/2011 11:10:0	8000	R39697		0	754017	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	9.1	72800		0	0	71840	8000	8000	0	0%	0	0	1%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2.05	16400		0	0	16320	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	8.2	65600		0	0	66080	8000	8000	0	0%	0	0	1%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	4.7	37600		0	0	37520	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	5.48	43840		0	0	44160	8000	8000	0	0%	0	0	1%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.68	13440		0	0	13440	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	13.85	110800		0	0	110720	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754018	1103609-011ADUP	EPA_TO15-ug/	DUP	\\I\DATA\040711\4/7/2011 11:10:0		8000	R39697		0	754017	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	14.40945	115275.6		0	0	114764.4	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	31.3222	250577.6		0	0	247273.28	27536	27536	0	0%	0	0	1%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	8.9011	71208.8		0	0	70861.44	34736	34736	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754018	1103609-011ADUP	EPA_TO15-ug/	DUP	\I\DATA\040711	4/7/2011 11:10:0	8000	R39697		0	754017	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	33.6118	268894.4		0	0	270861.92	32792	32792	0	0%	0	0	1%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	40.8148	326518.4		0	0	325823.68	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	19.317	154536		0	0	155664	28200	28200	0	0%	0	0	1%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	7.29456	58356.48		0	0	58356.48	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	52.20065	417605.2		0	0	417303.68	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	100000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.45	99600		100000	0	99280	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754019	1103609-012A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/7/2011 11:49:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754019	1103609-012A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040711	4/7/2011 11:49:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	1.36	10880		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	3.97	31760		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754019	1103609-012A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711	4/7/2011 11:49:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane	A	ppbv	3.44	27520		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.01	8080		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	2.86	22880		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.42	19360		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.13	9040		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.42	19360		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	5.86	46880		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754019	1103609-012A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711	4/7/2011 11:49:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	3.34288	26743.04		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.68415	101473.2		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	11.84048	94723.84		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.38542	35083.36		0	0	0	34736	34736	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754019	1103609-012A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/7/2011 11:49:0		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	11.72314	93785.12		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	21.01528	168122.24		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.92562	31404.96		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	8.5305	68244		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	22.08634	176690.72		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.35	98800		100000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754020	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 12:29:0		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754020	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 12:29:0		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	22.9	183200		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754020	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711\	4/8/2011 12:29:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	54.81	438480		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.12	8960		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	25.79	206320		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.41	19280		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	33.67	269360		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	12.55	100400		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754020	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711	4/8/2011 12:29:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	73.1655	585324		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	188.65602	1509248.16		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754020	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 12:29:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethyl benzene-ug/m3	C	µg/m³	4.86304	38904.32		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	105.71321	845705.68		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	20.92844	167427.52		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	118.68675	949494		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	47.30095	378407.6		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.57	100560		100000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754021	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:09:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754021	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711'4/8/2011 1:09:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	56.54	452320		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754021	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:09:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	122.23	977840		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	4.41	35280		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	74.34	594720		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	8.94	71520		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	143.48	1147840		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	2.63	21040		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	4.59	36720		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	87.49	699920		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754021	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:09:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	180.6453	1445162.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	420.71566	3365725.28		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754021	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:09:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	19.14822	153185.76		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	304.71966	2437757.28		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	77.63496	621079.68		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	505.767	4046136		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	11.41946	91355.68		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	7.89939	63195.12		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	329.74981	2637998.48		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	13.29	106320		100000	0	0	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754022	1103609-016A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 2:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.15	9200		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	10.79	86320		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754022	1103609-016A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711	4/8/2011 2:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	17.07	136560		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	6.43	51440		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	18.58	148640		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	12.69	101520		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.69	13520		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	11.22	89760		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	4.22	33760		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	38.59	308720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754022	1103609-016A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 2:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	5.6534	45227.2		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	34.47405	275792.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	58.75494	470039.52		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754022	1103609-016A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 2:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	27.91906	223352.48		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	76.15942	609275.36		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	110.19996	881599.68		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	5.87106	46968.48		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	39.5505	316404		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	18.32324	146585.92		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	145.44571	1163565.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.34	98720		100000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754023	1103609-018A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711\4/8/2011 3:10:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	14.04	112320		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754023	1103609-018A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711	4/8/2011 3:10:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	29.08	232640		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.58	12640		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	17.89	143120		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.58	28640		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	31.65	253200		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.1	8800		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	2	16000		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	27.81	222480		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754023	1103609-018A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711\	4/8/2011 3:10:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	44.8578	358862.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	100.09336	800746.88		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754023	1103609-018A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711\	4/8/2011 3:10:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.86036	54882.88		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	73.33111	586648.88		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	31.08872	248709.76		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	111.56625	892530		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.7762	38209.6		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	3.442	27536		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	104.81589	838527.12		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.42	99360		100000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754024	1103609-019A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 3:50:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	2.21	17680		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754024	1103609-019A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711	4/8/2011 3:50:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	5.53	44240		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.16	9280		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	5.38	43040		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.71	21680		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	3.41	27280		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	6.41	51280		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754024	1103609-019A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 3:50:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	7.06095	56487.6		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	19.03426	152274.08		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754024	1103609-019A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040711	4/8/2011 3:50:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	5.03672	40293.76		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	22.05262	176420.96		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	23.53364	188269.12		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	12.02025	96162		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	24.15929	193274.32		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.26	98080		100000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754025	1103609-020A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 4:30:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	3.79	30320		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754025	1103609-020A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 4:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	12.57	100560		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.31	10480		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	9.97	79760		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.87	22960		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	7.07	56560		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	8.06	64480		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754025	1103609-020A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 4:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.10905	96872.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	43.26594	346127.52		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754025	1103609-020A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\	4/8/2011 4:30:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	5.68802	45504.16		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	40.86703	326936.24		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	24.92308	199384.64		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	24.92175	199374		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	30.37814	243025.12		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.12	96960		100000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754026	1103609-021A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 5:11:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	1.94	15520		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754026	1103609-021A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 5:11:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	4.81	38480		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.13	9040		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	4.63	37040		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.46	19680		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	2.75	22000		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	5.2	41600		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754026	1103609-021A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 5:11:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	6.1983	49586.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	16.55602	132448.16		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754026	1103609-021A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 5:11:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	4.90646	39251.68		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	18.97837	151826.96		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	21.36264	170901.12		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	9.69375	77550		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	19.5988	156790.4		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.02	96160		100000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754027	1103609-022A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 5:51:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	13.23	105840		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754027	1103609-022A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 5:51:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	20.54	164320		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.39	11120		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	9.64	77120		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.13	25040		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	16.97	135760		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.07	8560		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	1.92	15360		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	11.73	93840		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754027	1103609-022A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040711	4/8/2011 5:51:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	42.26985	338158.8		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	70.69868	565589.44		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754027	1103609-022A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711	4/8/2011 5:51:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.03538	48283.04		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	39.51436	316114.88		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	27.18092	217447.36		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	59.81925	478554		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.64594	37167.52		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	3.30432	26434.56		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	44.21037	353682.96		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.08	96640		100000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754028	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 9:28:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	33.09	264720		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754028	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 9:28:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	88.36	706880		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.74	13920		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	51.58	412640		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.38	27040		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	96.23	769840		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	7.89	63120		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	48.01	384080		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754028	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 9:28:00	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	105.72255	845780.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	304.13512	2433080.96		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754028	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711'4/8/2011 9:28:00		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	7.55508	60440.64		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	211.42642	1691411.36		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	29.35192	234815.36		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	339.21075	2713686		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	13.57869	108629.52		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	180.94969	1447597.52		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.52	100160		100000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754029	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040711	4/8/2011 10:08:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	1.43	11440		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	62.62	500960		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754029	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711\	4/8/2011 10:08:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	122.69	981520		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	3.92	31360		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	82.44	659520		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	10.74	85920		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	141.44	1131520		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	2.68	21440		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	4.06	32480		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	85.6	684800		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754029	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040711	4/8/2011 10:08:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	3.39625	27170		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	200.0709	1600567.2		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	422.29898	3378391.84		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754029	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711\	4/8/2011 10:08:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	17.02064	136165.12		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	337.92156	2703372.48		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	93.26616	746129.28		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	498.576	3988608		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	11.63656	93092.48		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	6.98726	55898.08		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	322.6264	2581011.2		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.75	102000		100000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754030	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 10:49:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	62.52	500160		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754030	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040711\4/8/2011 10:49:0		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	120.91	967280		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	4.01	32080		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	81.63	653040		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	11.17	89360		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	142.57	1140560		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	2.68	21440		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	4.58	36640		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	85.95	687600		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754030	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040711	4/8/2011 10:49:0	8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	199.7514	1598011.2		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	416.17222	3329377.76		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754030	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 10:49:0		8000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	17.41142	139291.36		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	334.60137	2676810.96		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	97.00028	776002.24		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	502.55925	4020474		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	11.63656	93092.48		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	7.88218	63057.44		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	323.94555	2591564.4		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.71	101680		100000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754110	1103609-023A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:36:00	4000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754110	1103609-023A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:36:00	4000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	2.3	9200		0	0	0	4000	4000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Heptane	A	ppbv	2.59	10360		0	0	0	4000	4000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.37	0		0	0	0	8000	8000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.38	5520		0	0	0	4000	4000	0	0%	0	0	0%	
n-Hexane	A	ppbv	1.73	6920		0	0	0	4000	4000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Toluene	A	ppbv	4.41	17640		0	0	0	4000	4000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21824	21824	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	27460	27460	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	30656	30656	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21824	21824	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	16188	16188	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754110	1103609-023A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 1:36:00	4000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	29684	29684	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	30752	30752	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	16188	16188	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	18484	18484	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	8848	8848	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	14416	14416	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	11796	11796	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	16388	16388	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	9832	9832	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	16392	16392	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	9500	9500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	12780	12780	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20708	20708	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	26796	26796	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	41348	41348	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	15532	15532	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	12456	12456	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	25164	25164	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	18416	18416	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	34076	34076	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10552	10552	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	19532	19532	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	8260	8260	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	18156	18156	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	7.9166	31666.4		0	0	0	13768	13768	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	19780	19780	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754110	1103609-023A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 1:36:00		4000	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	7536	7536	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	14412	14412	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	17368	17368	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	10.61641	42465.64		0	0	0	16396	16396	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	42660	42660	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	11.89708	0		0	0	0	69472	69472	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.79412	19176.48		0	0	0	13896	13896	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	6.09825	24393		0	0	0	14100	14100	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	20968	20968	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17368	17368	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	6884	6884	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	17040	17040	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	14420	14420	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	27128	27128	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	11796	11796	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	16.62129	66485.16		0	0	0	15076	15076	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	18156	18156	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	21496	21496	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	22472	22472	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	14084	14084	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	10224	10224	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.12	48480		50000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754111	1103609-002A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 2:17:00		40	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	1.23	49.2		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	8.08	323.2		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754111	1103609-002A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\4/8/2011 2:17:00		40	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	26.38	1055.2		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	1.15	46		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.66	66.4		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	19.17	766.8		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	3.95	158		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	13.81	552.4		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.28	51.2		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	22.36	894.4		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754111	1103609-002A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711	4/8/2011 2:17:00	40	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.92125	116.85		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	25.8156	1032.624		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	90.79996	3631.9984		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754111	1103609-002A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040711\	4/8/2011 2:17:00	40	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	2.1666	86.664		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	7.20772	288.3088		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	78.57783	3143.1132		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	34.3018	1372.072		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	48.68025	1947.21		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	5.55776	222.3104		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	84.27484	3370.9936		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.38	495.2		500	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754170	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711\	4/8/2011 3:39:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754170	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\\I\DATA\040711	4/8/2011 3:39:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.19	1.19		0.96	0	0	1	1	0	124%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.19	1.19		1	0	0	1	1	0	119%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.17	1.17		0.98	0	0	1	1	0	119%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1.22	1.22		0.98	0	0	1	1	0	124%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.17	1.17		0.97	0	0	1	1	0	121%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.19	1.19		0.99	0	0	1	1	0	120%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.7	0.7		0.91	0	0	1	1	0	77%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.31	1.31		0.98	0	0	1	1	0	134%	70	130	0%	S
1,2-Dibromoethane	A	ppbv	1.19	1.19		0.96	0	0	1	1	0	124%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.22	1.22		0.97	0	0	1	1	0	126%	70	130	0%	
1,2-Dichloroethane	A	ppbv	1.29	1.29		0.97	0	0	1	1	0	133%	70	130	0%	S
1,2-Dichloropropane	A	ppbv	1.25	1.25		0.98	0	0	1	1	0	128%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.42	1.42		0.97	0	0	1	1	0	146%	70	130	0%	S
1,3-Butadiene	A	ppbv	1.33	1.33		0.98	0	0	1	1	0	136%	70	130	0%	S
1,3-Dichlorobenzene	A	ppbv	1.25	1.25		0.97	0	0	1	1	0	129%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	1.24	1.24		0.96	0	0	1	1	0	129%	70	130	0%	
1,4-Dioxane	A	ppbv	0.98	0.98		0.96	0	0	1	1	0	102%	70	130	0%	
2-Butanone	A	ppbv	1.19	1.19		0.99	0	0	1	1	0	120%	70	130	0%	
2-Hexanone	A	ppbv	0.9	0.9		0.98	0	0	1	1	0	92%	70	130	0%	
2-Propanol	A	ppbv	1.13	1.13		1.01	0	0	1	1	0	112%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	1	1		1	0	0	1	1	0	100%	70	130	0%	
Acetone	A	ppbv	1.41	1.41		1	0	0	1	1	0	141%	70	130	0%	S
Benzene	A	ppbv	1.35	1.35		0.96	0	0	1	1	0	141%	70	130	0%	S
Benzyl chloride	A	ppbv	1.1	1.1		0.97	0	0	1	1	0	113%	70	130	0%	
Bromodichloromethane	A	ppbv	1.17	1.17		0.96	0	0	1	1	0	122%	70	130	0%	
Bromoform	A	ppbv	1.15	1.15		0.96	0	0	1	1	0	120%	70	130	0%	
Bromomethane	A	ppbv	1.13	1.13		0.93	0	0	1	1	0	122%	70	130	0%	
Carbon disulfide	A	ppbv	1.15	1.15		0.97	0	0	1	1	0	119%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.16	1.16		0.95	0	0	1	1	0	122%	70	130	0%	
Chlorobenzene	A	ppbv	1.36	1.36		0.99	0	0	1	1	0	137%	70	130	0%	S
Chlorodibromomethane	A	ppbv	1.16	1.16		0.98	0	0	1	1	0	118%	70	130	0%	
Chloroethane	A	ppbv	1.1	1.1		0.92	0	0	1	1	0	120%	70	130	0%	
Chloroform	A	ppbv	1.25	1.25		0.98	0	0	1	1	0	128%	70	130	0%	
Chloromethane	A	ppbv	1.23	1.23		0.95	0	0	1	1	0	129%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754170	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711	4/8/2011 3:39:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	1.18	1.18		0.98	0	0	1	1	0	120%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	1.11	1.11		0.95	0	0	1	1	0	117%	70	130	0%	
Cyclohexane	A	ppbv	1.35	1.35		0.98	0	0	1	1	0	138%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1.12	1.12		0.92	0	0	1	1	0	122%	70	130	0%	
Ethanol	A	ppbv	1.13	1.13		0.92	0	0	1	1	0	123%	70	130	0%	
Ethyl acetate	A	ppbv	1.13	1.13		0.98	0	0	1	1	0	115%	70	130	0%	
Ethylbenzene	A	ppbv	1.39	1.39		0.98	0	0	1	1	0	142%	70	130	0%	S
Heptane	A	ppbv	1.37	1.37		0.99	0	0	1	1	0	138%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	1.21	1.21		0.94	0	0	1	1	0	129%	70	130	0%	
m,p-Xylene	A	ppbv	2.85	2.85		1.92	0	0	2	2	0	148%	70	130	0%	S
Methylene chloride	A	ppbv	1.31	1.31		1	0	0	1	1	0	131%	70	130	0%	S
n-Hexane	A	ppbv	1.34	1.34		1.01	0	0	1	1	0	133%	70	130	0%	S
Naphthalene	A	ppbv	0.68	0.68		0.92	0	0	1	1	0	74%	70	130	0%	
o-Xylene	A	ppbv	1.37	1.37		1	0	0	1	1	0	137%	70	130	0%	S
p-Ethyltoluene	A	ppbv	1.33	1.33		0.98	0	0	1	1	0	136%	70	130	0%	S
Propylene	A	ppbv	1.24	1.24		1.02	0	0	1	1	0	122%	70	130	0%	
Styrene	A	ppbv	1.24	1.24		0.98	0	0	1	1	0	127%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.34	1.34		0.99	0	0	1	1	0	135%	70	130	0%	S
Tetrachloroethene	A	ppbv	1.28	1.28		0.96	0	0	1	1	0	133%	70	130	0%	S
Tetrahydrofuran	A	ppbv	1.24	1.24		1	0	0	1	1	0	124%	70	130	0%	
Toluene	A	ppbv	1.44	1.44		0.98	0	0	1	1	0	147%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	1.16	1.16		0.98	0	0	1	1	0	118%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	1.03	1.03		0.91	0	0	1	1	0	113%	70	130	0%	
Trichloroethene	A	ppbv	1.22	1.22		0.96	0	0	1	1	0	127%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.16	1.16		0.96	0	0	1	1	0	121%	70	130	0%	
Vinyl acetate	A	ppbv	1.17	1.17		0.99	0	0	1	1	0	118%	70	130	0%	
Vinyl chloride	A	ppbv	1.25	1.25		0.94	0	0	1	1	0	133%	70	130	0%	S
1,1,1-Trichloroethane-ug/m3	C	µg/m³	6.49264	6.49264		5.23776	0	0	5.456	5.456	0	124%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	8.16935	8.16935		6.865	0	0	6.865	6.865	0	119%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	8.96688	8.96688		7.51072	0	0	7.664	7.664	0	119%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	6.65632	6.65632		5.34688	0	0	5.456	5.456	0	124%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	4.73499	4.73499		3.92559	0	0	4.047	4.047	0	121%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.71835	4.71835		3.92535	0	0	3.965	3.965	0	120%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.1947	5.1947		6.75311	0	0	7.421	7.421	0	77%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754170	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\\I\DATA\040711'4/8/2011 3:39:00		1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	6.43996	6.43996		4.81768	0	0	4.916	4.916	0	134%	70	130	0%	S
1,2-Dibromoethane-ug/m3	C	µg/m³	9.14872	9.14872		7.38048	0	0	7.688	7.688	0	124%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	7.33464	7.33464		5.83164	0	0	6.012	6.012	0	126%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	5.22063	5.22063		3.92559	0	0	4.047	4.047	0	133%	70	130	0%	S
1,2-Dichloropropane-ug/m3	C	µg/m³	5.77625	5.77625		4.52858	0	0	4.621	4.621	0	128%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	6.98072	6.98072		4.76852	0	0	4.916	4.916	0	146%	70	130	0%	S
1,3-Butadiene-ug/m3	C	µg/m³	2.94196	2.94196		2.16776	0	0	2.212	2.212	0	136%	70	130	0%	S
1,3-Dichlorobenzene-ug/m3	C	µg/m³	7.515	7.515		5.83164	0	0	6.012	6.012	0	129%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	7.45488	7.45488		5.77152	0	0	6.012	6.012	0	129%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	3.53192	3.53192		3.45984	0	0	3.604	3.604	0	102%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	3.50931	3.50931		2.91951	0	0	2.949	2.949	0	120%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	3.6873	3.6873		4.01506	0	0	4.097	4.097	0	92%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	2.77754	2.77754		2.48258	0	0	2.458	2.458	0	112%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	4.098	4.098		4.098	0	0	4.098	4.098	0	100%	70	130	0%	
Acetone-ug/m3	C	µg/m³	3.34875	3.34875		2.375	0	0	2.375	2.375	0	141%	70	130	0%	S
Benzene-ug/m3	C	µg/m³	4.31325	4.31325		3.0672	0	0	3.195	3.195	0	141%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	5.6947	5.6947		5.02169	0	0	5.177	5.177	0	113%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	7.83783	7.83783		6.43104	0	0	6.699	6.699	0	122%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	11.88755	11.88755		9.92352	0	0	10.337	10.337	0	120%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	4.38779	4.38779		3.61119	0	0	3.883	3.883	0	122%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.5811	3.5811		3.02058	0	0	3.114	3.114	0	119%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	7.29756	7.29756		5.97645	0	0	6.291	6.291	0	122%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	6.26144	6.26144		4.55796	0	0	4.604	4.604	0	137%	70	130	0%	S
Chlorodibromomethane-ug/m3	C	µg/m³	9.88204	9.88204		8.34862	0	0	8.519	8.519	0	118%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.9018	2.9018		2.42696	0	0	2.638	2.638	0	120%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	6.10375	6.10375		4.78534	0	0	4.883	4.883	0	128%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.53995	2.53995		1.96175	0	0	2.065	2.065	0	129%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	4.6787	4.6787		3.8857	0	0	3.965	3.965	0	120%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	5.03829	5.03829		4.31205	0	0	4.539	4.539	0	117%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	4.6467	4.6467		3.37316	0	0	3.442	3.442	0	138%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	5.5384	5.5384		4.5494	0	0	4.945	4.945	0	122%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	2.12892	2.12892		1.73328	0	0	1.884	1.884	0	123%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	4.07139	4.07139		3.53094	0	0	3.603	3.603	0	115%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.03538	6.03538		4.25516	0	0	4.342	4.342	0	142%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754170	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040711	4/8/2011 3:39:00	1	R39697		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	5.61563	5.61563		4.05801	0	0	4.099	4.099	0	138%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	12.90465	12.90465		10.0251	0	0	10.665	10.665	0	129%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	24.7494	24.7494		16.67328	0	0	17.368	17.368	0	148%	70	130	0%	S
Methylene chloride-ug/m3	C	µg/m³	4.55094	4.55094		3.474	0	0	3.474	3.474	0	131%	70	130	0%	S
n-Hexane-ug/m3	C	µg/m³	4.7235	4.7235		3.56025	0	0	3.525	3.525	0	133%	70	130	0%	S
Naphthalene-ug/m3	C	µg/m³	3.56456	3.56456		4.82264	0	0	5.242	5.242	0	74%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	5.94854	5.94854		4.342	0	0	4.342	4.342	0	137%	70	130	0%	S
p-Ethyltoluene-ug/m3	C	µg/m³	6.53828	6.53828		4.81768	0	0	4.916	4.916	0	136%	70	130	0%	S
Propylene-ug/m3	C	µg/m³	2.13404	2.13404		1.75542	0	0	1.721	1.721	0	122%	70	130	0%	
Styrene-ug/m3	C	µg/m³	5.2824	5.2824		4.1748	0	0	4.26	4.26	0	127%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	4.8307	4.8307		3.56895	0	0	3.605	3.605	0	135%	70	130	0%	S
Tetrachloroethene-ug/m3	C	µg/m³	8.68096	8.68096		6.51072	0	0	6.782	6.782	0	133%	70	130	0%	S
Tetrahydrofuran-ug/m3	C	µg/m³	3.65676	3.65676		2.949	0	0	2.949	2.949	0	124%	70	130	0%	
Toluene-ug/m3	C	µg/m³	5.42736	5.42736		3.69362	0	0	3.769	3.769	0	147%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.5994	4.5994		3.8857	0	0	3.965	3.965	0	118%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	4.67517	4.67517		4.13049	0	0	4.539	4.539	0	113%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	6.55628	6.55628		5.15904	0	0	5.374	5.374	0	127%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	6.51688	6.51688		5.39328	0	0	5.618	5.618	0	121%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	4.11957	4.11957		3.48579	0	0	3.521	3.521	0	118%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	3.195	3.195		2.40264	0	0	2.556	2.556	0	133%	70	130	0%	S
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.05	12.05		12.5	0	0	0	0	0	96%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39704

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754173	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\040811	4/8/2011 4:19:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.2	0.2		0	0	0	0	0	0	0%	0	2	0%	
174	M		88.8	88.8		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.4	7.4		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.1	98.1		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		17.9	17.9		0	0	0	0	0	0	0%	8	40	0%	
75	M		47.7	47.7		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.9	6.9		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754174	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040811	4/8/2011 5:00:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	10.5	10.5		10	0	0	1	1	0	105%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	2.02	2.02		4.17	0	0	1	1	0	48%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	9.9	9.9		9.8	0	0	1	1	0	101%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	9.76	9.76		10	0	0	1	1	0	98%	70	130	0%	
1,1-Dichloroethane	A	ppbv	10.45	10.45		10	0	0	1	1	0	105%	70	130	0%	
1,1-Dichloroethene	A	ppbv	8.75	8.75		10	0	0	1	1	0	88%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	7.38	7.38		10.6	0	0	1	1	0	70%	70	130	0%	S
1,2,4-Trimethylbenzene	A	ppbv	9.49	9.49		10	0	0	1	1	0	95%	70	130	0%	
1,2-Dibromoethane	A	ppbv	8.42	8.42		10	0	0	1	1	0	84%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	9.65	9.65		10	0	0	1	1	0	97%	70	130	0%	
1,2-Dichloroethane	A	ppbv	11.26	11.26		10	0	0	1	1	0	113%	70	130	0%	
1,2-Dichloropropane	A	ppbv	10.62	10.62		10	0	0	1	1	0	106%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	10.13	10.13		10	0	0	1	1	0	101%	70	130	0%	
1,3-Butadiene	A	ppbv	10.7	10.7		10	0	0	1	1	0	107%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	9.67	9.67		10	0	0	1	1	0	97%	70	130	0%	

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754174	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040811\4/8/2011 5:00:00		1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	9.78	9.78		10.2	0	0	1	1	0	96%	70	130	0%	
1,4-Dioxane	A	ppbv	9.95	9.95		10	0	0	1	1	0	100%	70	130	0%	
2-Butanone	A	ppbv	12.13	12.13		10.2	0	0	1	1	0	119%	70	130	0%	
2-Hexanone	A	ppbv	15.59	15.59		10	0	0	1	1	0	156%	70	130	0%	S
2-Propanol	A	ppbv	13	13		10	0	0	1	1	0	130%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	13.72	13.72		10.6	0	0	1	1	0	129%	70	130	0%	
Acetone	A	ppbv	11.49	11.49		10	0	0	1	1	0	115%	70	130	0%	
Benzene	A	ppbv	11.24	11.24		10	0	0	1	1	0	112%	70	130	0%	
Benzyl chloride	A	ppbv	3.25	3.25		5.4	0	0	1	1	0	60%	70	130	0%	S
Bromodichloromethane	A	ppbv	10.55	10.55		10.2	0	0	1	1	0	103%	70	130	0%	
Bromoform	A	ppbv	9.91	9.91		9.8	0	0	1	1	0	101%	70	130	0%	
Bromomethane	A	ppbv	5.46	5.46		10	0	0	1	1	0	55%	70	130	0%	S
Carbon disulfide	A	ppbv	8.83	8.83		10	0	0	1	1	0	88%	70	130	0%	
Carbon tetrachloride	A	ppbv	10.37	10.37		10	0	0	1	1	0	104%	70	130	0%	
Chlorobenzene	A	ppbv	10.33	10.33		10	0	0	1	1	0	103%	70	130	0%	
Chlorodibromomethane	A	ppbv	10	10		10	0	0	1	1	0	100%	70	130	0%	
Chloroethane	A	ppbv	7.55	7.55		10	0	0	1	1	0	76%	70	130	0%	
Chloroform	A	ppbv	10.7	10.7		10.2	0	0	1	1	0	105%	70	130	0%	
Chloromethane	A	ppbv	12.09	12.09		10.2	0	0	1	1	0	119%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	10.33	10.33		10	0	0	1	1	0	103%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	9.82	9.82		10.6	0	0	1	1	0	93%	70	130	0%	
Cyclohexane	A	ppbv	10.74	10.74		10.2	0	0	1	1	0	105%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	9	9		10	0	0	1	1	0	90%	70	130	0%	
Ethanol	A	ppbv	13.11	13.11		12.2	0	0	1	1	0	107%	70	130	0%	
Ethyl acetate	A	ppbv	11.49	11.49		10	0	0	1	1	0	115%	70	130	0%	
Ethylbenzene	A	ppbv	11.6	11.6		10	0	0	1	1	0	116%	70	130	0%	
Heptane	A	ppbv	11.14	11.14		10	0	0	1	1	0	111%	70	130	0%	
Hexachlorobutadiene	A	ppbv	8.65	8.65		9.8	0	0	1	1	0	88%	70	130	0%	
m,p-Xylene	A	ppbv	22.67	22.67		20	0	0	2	2	0	113%	70	130	0%	
Methylene chloride	A	ppbv	9.58	9.58		9.8	0	0	1	1	0	98%	70	130	0%	
n-Hexane	A	ppbv	9.88	9.88		10.2	0	0	1	1	0	97%	70	130	0%	
Naphthalene	A	ppbv	7.08	7.08		10	0	0	1	1	0	71%	70	130	0%	
o-Xylene	A	ppbv	11.16	11.16		10	0	0	1	1	0	112%	70	130	0%	
p-Ethyltoluene	A	ppbv	9.72	9.72		10.6	0	0	1	1	0	92%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754174	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040811\	4/8/2011 5:00:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Propylene	A	ppbv	9.96	9.96		10	0	0	1	1	0	100%	70	130	0%	
Styrene	A	ppbv	10.87	10.87		10	0	0	1	1	0	109%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	11.38	11.38		10	0	0	1	1	0	114%	70	130	0%	
Tetrachloroethene	A	ppbv	10.38	10.38		10	0	0	1	1	0	104%	70	130	0%	
Tetrahydrofuran	A	ppbv	13.03	13.03		10	0	0	1	1	0	130%	70	130	0%	S
Toluene	A	ppbv	11.39	11.39		10	0	0	1	1	0	114%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	9.8	9.8		10	0	0	1	1	0	98%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	8.94	8.94		9.4	0	0	1	1	0	95%	70	130	0%	
Trichloroethene	A	ppbv	17.76	17.76		13.6	0	0	1	1	0	131%	70	130	0%	S
Trichlorofluoromethane	A	ppbv	9.5	9.5		10	0	0	1	1	0	95%	70	130	0%	
Vinyl acetate	A	ppbv	9.95	9.95		10	0	0	1	1	0	100%	70	130	0%	
Vinyl chloride	A	ppbv	9.98	9.98		10	0	0	1	1	0	100%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	57.288	57.288		54.56	0	0	5.456	5.456	0	105%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	13.8673	13.8673		28.62705	0	0	6.865	6.865	0	48%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	75.8736	75.8736		75.1072	0	0	7.664	7.664	0	101%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	53.25056	53.25056		54.56	0	0	5.456	5.456	0	98%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	42.29115	42.29115		40.47	0	0	4.047	4.047	0	105%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	34.69375	34.69375		39.65	0	0	3.965	3.965	0	88%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	54.76698	54.76698		78.6626	0	0	7.421	7.421	0	70%	70	130	0%	S
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	46.65284	46.65284		49.16	0	0	4.916	4.916	0	95%	70	130	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	64.73296	64.73296		76.88	0	0	7.688	7.688	0	84%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	58.0158	58.0158		60.12	0	0	6.012	6.012	0	97%	70	130	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	45.56922	45.56922		40.47	0	0	4.047	4.047	0	113%	70	130	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	49.07502	49.07502		46.21	0	0	4.621	4.621	0	106%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	49.79908	49.79908		49.16	0	0	4.916	4.916	0	101%	70	130	0%	
1,3-Butadiene-ug/m3	C	µg/m³	23.6684	23.6684		22.12	0	0	2.212	2.212	0	107%	70	130	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	58.13604	58.13604		60.12	0	0	6.012	6.012	0	97%	70	130	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	58.79736	58.79736		61.3224	0	0	6.012	6.012	0	96%	70	130	0%	
1,4-Dioxane-ug/m3	C	µg/m³	35.8598	35.8598		36.04	0	0	3.604	3.604	0	100%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	35.77137	35.77137		30.0798	0	0	2.949	2.949	0	119%	70	130	0%	
2-Hexanone-ug/m3	C	µg/m³	63.87223	63.87223		40.97	0	0	4.097	4.097	0	156%	70	130	0%	S
2-Propanol-ug/m3	C	µg/m³	31.954	31.954		24.58	0	0	2.458	2.458	0	130%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	56.22456	56.22456		43.4388	0	0	4.098	4.098	0	129%	70	130	0%	
Acetone-ug/m3	C	µg/m³	27.28875	27.28875		23.75	0	0	2.375	2.375	0	115%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754174	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040811	4/8/2011 5:00:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Benzene-ug/m3	C	µg/m³	35.9118	35.9118		31.95	0	0	3.195	3.195	0	112%	70	130	0%	
Benzyl chloride-ug/m3	C	µg/m³	16.82525	16.82525		27.9558	0	0	5.177	5.177	0	60%	70	130	0%	S
Bromodichloromethane-ug/m3	C	µg/m³	70.67445	70.67445		68.3298	0	0	6.699	6.699	0	103%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	102.43967	102.43967		101.3026	0	0	10.337	10.337	0	101%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	21.20118	21.20118		38.83	0	0	3.883	3.883	0	55%	70	130	0%	S
Carbon disulfide-ug/m3	C	µg/m³	27.49662	27.49662		31.14	0	0	3.114	3.114	0	88%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	65.23767	65.23767		62.91	0	0	6.291	6.291	0	104%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	47.55932	47.55932		46.04	0	0	4.604	4.604	0	103%	70	130	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	85.19	85.19		85.19	0	0	8.519	8.519	0	100%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	19.9169	19.9169		26.38	0	0	2.638	2.638	0	76%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	52.2481	52.2481		49.8066	0	0	4.883	4.883	0	105%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	24.96585	24.96585		21.063	0	0	2.065	2.065	0	119%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	40.95845	40.95845		39.65	0	0	3.965	3.965	0	103%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	44.57298	44.57298		48.1134	0	0	4.539	4.539	0	93%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	36.96708	36.96708		35.1084	0	0	3.442	3.442	0	105%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	44.505	44.505		49.45	0	0	4.945	4.945	0	90%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	24.69924	24.69924		22.9848	0	0	1.884	1.884	0	107%	70	130	0%	
Ethyl acetate-ug/m3	C	µg/m³	41.39847	41.39847		36.03	0	0	3.603	3.603	0	115%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	50.3672	50.3672		43.42	0	0	4.342	4.342	0	116%	70	130	0%	
Heptane-ug/m3	C	µg/m³	45.66286	45.66286		40.99	0	0	4.099	4.099	0	111%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	92.25225	92.25225		104.517	0	0	10.665	10.665	0	88%	70	130	0%	
m,p-Xylene-ug/m3	C	µg/m³	196.86628	196.86628		173.68	0	0	17.368	17.368	0	113%	70	130	0%	
Methylene chloride-ug/m3	C	µg/m³	33.28092	33.28092		34.0452	0	0	3.474	3.474	0	98%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	34.827	34.827		35.955	0	0	3.525	3.525	0	97%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	37.11336	37.11336		52.42	0	0	5.242	5.242	0	71%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	48.45672	48.45672		43.42	0	0	4.342	4.342	0	112%	70	130	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	47.78352	47.78352		52.1096	0	0	4.916	4.916	0	92%	70	130	0%	
Propylene-ug/m3	C	µg/m³	17.14116	17.14116		17.21	0	0	1.721	1.721	0	100%	70	130	0%	
Styrene-ug/m3	C	µg/m³	46.3062	46.3062		42.6	0	0	4.26	4.26	0	109%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	41.0249	41.0249		36.05	0	0	3.605	3.605	0	114%	70	130	0%	
Tetrachloroethene-ug/m3	C	µg/m³	70.39716	70.39716		67.82	0	0	6.782	6.782	0	104%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	38.42547	38.42547		29.49	0	0	2.949	2.949	0	130%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	42.92891	42.92891		37.69	0	0	3.769	3.769	0	114%	70	130	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	38.857	38.857		39.65	0	0	3.965	3.965	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754174	TO15 CCV 40cc vo	EPA_TO15-ug/	CCV	\I\DATA\040811	4/8/2011 5:00:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	40.57866	40.57866		42.6666	0	0	4.539	4.539	0	95%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	95.44224	95.44224		73.0864	0	0	5.374	5.374	0	131%	70	130	0%	S
Trichlorofluoromethane-ug/m3	C	µg/m³	53.371	53.371		56.18	0	0	5.618	5.618	0	95%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	35.03395	35.03395		35.21	0	0	3.521	3.521	0	100%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	25.50888	25.50888		25.56	0	0	2.556	2.556	0	100%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.13	12.13		12.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754175	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040811	4/8/2011 5:41:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.21	1.21		0.96	0	0	1	1	0	126%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.22	1.22		1	0	0	1	1	0	122%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.16	1.16		0.98	0	0	1	1	0	118%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1.21	1.21		0.98	0	0	1	1	0	123%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.19	1.19		0.97	0	0	1	1	0	123%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.18	1.18		0.99	0	0	1	1	0	119%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.8	0.8		0.91	0	0	1	1	0	88%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.38	1.38		0.98	0	0	1	1	0	141%	70	130	0%	S
1,2-Dibromoethane	A	ppbv	1.21	1.21		0.96	0	0	1	1	0	126%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.37	1.37		0.97	0	0	1	1	0	141%	70	130	0%	S
1,2-Dichloroethane	A	ppbv	1.3	1.3		0.97	0	0	1	1	0	134%	70	130	0%	S
1,2-Dichloropropane	A	ppbv	1.23	1.23		0.98	0	0	1	1	0	126%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.46	1.46		0.97	0	0	1	1	0	151%	70	130	0%	S
1,3-Butadiene	A	ppbv	1.29	1.29		0.98	0	0	1	1	0	132%	70	130	0%	S
1,3-Dichlorobenzene	A	ppbv	1.37	1.37		0.97	0	0	1	1	0	141%	70	130	0%	S
1,4-Dichlorobenzene	A	ppbv	1.31	1.31		0.96	0	0	1	1	0	136%	70	130	0%	S
1,4-Dioxane	A	ppbv	1.35	1.35		0.96	0	0	1	1	0	141%	70	130	0%	S
2-Butanone	A	ppbv	1.43	1.43		0.99	0	0	1	1	0	144%	70	130	0%	S
2-Hexanone	A	ppbv	1.15	1.15		0.98	0	0	1	1	0	117%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754175	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040811\4/8/2011 5:41:00		1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
2-Propanol	A	ppbv	1.26	1.26		1.01	0	0	1	1	0	125%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	1.09	1.09		1	0	0	1	1	0	109%	70	130	0%	
Acetone	A	ppbv	1.49	1.49		1	0	0	1	1	0	149%	70	130	0%	S
Benzene	A	ppbv	1.32	1.32		0.96	0	0	1	1	0	138%	70	130	0%	S
Benzyl chloride	A	ppbv	1.12	1.12		0.97	0	0	1	1	0	115%	70	130	0%	
Bromodichloromethane	A	ppbv	1.16	1.16		0.96	0	0	1	1	0	121%	70	130	0%	
Bromoform	A	ppbv	1.2	1.2		0.96	0	0	1	1	0	125%	70	130	0%	
Bromomethane	A	ppbv	1.09	1.09		0.93	0	0	1	1	0	117%	70	130	0%	
Carbon disulfide	A	ppbv	1.12	1.12		0.97	0	0	1	1	0	115%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.18	1.18		0.95	0	0	1	1	0	124%	70	130	0%	
Chlorobenzene	A	ppbv	1.37	1.37		0.99	0	0	1	1	0	138%	70	130	0%	S
Chlorodibromomethane	A	ppbv	1.17	1.17		0.98	0	0	1	1	0	119%	70	130	0%	
Chloroethane	A	ppbv	1.08	1.08		0.92	0	0	1	1	0	117%	70	130	0%	
Chloroform	A	ppbv	1.26	1.26		0.98	0	0	1	1	0	129%	70	130	0%	
Chloromethane	A	ppbv	1.19	1.19		0.95	0	0	1	1	0	125%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	1.17	1.17		0.98	0	0	1	1	0	119%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	1.13	1.13		0.95	0	0	1	1	0	119%	70	130	0%	
Cyclohexane	A	ppbv	1.2	1.2		0.98	0	0	1	1	0	122%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	1.07	1.07		0.92	0	0	1	1	0	116%	70	130	0%	
Ethanol	A	ppbv	1.38	1.38		0.92	0	0	1	1	0	150%	70	130	0%	S
Ethyl acetate	A	ppbv	1.29	1.29		0.98	0	0	1	1	0	132%	70	130	0%	S
Ethylbenzene	A	ppbv	1.42	1.42		0.98	0	0	1	1	0	145%	70	130	0%	S
Heptane	A	ppbv	1.25	1.25		0.99	0	0	1	1	0	126%	70	130	0%	
Hexachlorobutadiene	A	ppbv	1.28	1.28		0.94	0	0	1	1	0	136%	70	130	0%	S
m,p-Xylene	A	ppbv	2.86	2.86		1.92	0	0	2	2	0	149%	70	130	0%	S
Methylene chloride	A	ppbv	1.26	1.26		1	0	0	1	1	0	126%	70	130	0%	
n-Hexane	A	ppbv	1.25	1.25		1.01	0	0	1	1	0	124%	70	130	0%	
Naphthalene	A	ppbv	0.92	0.92		0.92	0	0	1	1	0	100%	70	130	0%	
o-Xylene	A	ppbv	1.39	1.39		1	0	0	1	1	0	139%	70	130	0%	S
p-Ethyltoluene	A	ppbv	1.41	1.41		0.98	0	0	1	1	0	144%	70	130	0%	S
Propylene	A	ppbv	1.2	1.2		1.02	0	0	1	1	0	118%	70	130	0%	
Styrene	A	ppbv	1.26	1.26		0.98	0	0	1	1	0	129%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.44	1.44		0.99	0	0	1	1	0	145%	70	130	0%	S
Tetrachloroethene	A	ppbv	1.27	1.27		0.96	0	0	1	1	0	132%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754175	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\\I\DATA\040811\4/8/2011 5:41:00		1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Tetrahydrofuran	A	ppbv	1.31	1.31		1	0	0	1	1	0	131%	70	130	0%	S
Toluene	A	ppbv	1.35	1.35		0.98	0	0	1	1	0	138%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	1.15	1.15		0.98	0	0	1	1	0	117%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	1.07	1.07		0.91	0	0	1	1	0	118%	70	130	0%	
Trichloroethene	A	ppbv	1.19	1.19		0.96	0	0	1	1	0	124%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.15	1.15		0.96	0	0	1	1	0	120%	70	130	0%	
Vinyl acetate	A	ppbv	1.23	1.23		0.99	0	0	1	1	0	124%	70	130	0%	
Vinyl chloride	A	ppbv	1.22	1.22		0.94	0	0	1	1	0	130%	70	130	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	6.60176	6.60176		5.23776	0	0	5.456	5.456	0	126%	70	130	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	8.3753	8.3753		6.865	0	0	6.865	6.865	0	122%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	8.89024	8.89024		7.51072	0	0	7.664	7.664	0	118%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	6.60176	6.60176		5.34688	0	0	5.456	5.456	0	123%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	4.81593	4.81593		3.92559	0	0	4.047	4.047	0	123%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.6787	4.6787		3.92535	0	0	3.965	3.965	0	119%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.9368	5.9368		6.75311	0	0	7.421	7.421	0	88%	70	130	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	6.78408	6.78408		4.81768	0	0	4.916	4.916	0	141%	70	130	0%	S
1,2-Dibromoethane-ug/m3	C	µg/m³	9.30248	9.30248		7.38048	0	0	7.688	7.688	0	126%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	8.23644	8.23644		5.83164	0	0	6.012	6.012	0	141%	70	130	0%	S
1,2-Dichloroethane-ug/m3	C	µg/m³	5.2611	5.2611		3.92559	0	0	4.047	4.047	0	134%	70	130	0%	S
1,2-Dichloropropane-ug/m3	C	µg/m³	5.68383	5.68383		4.52858	0	0	4.621	4.621	0	126%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	7.17736	7.17736		4.76852	0	0	4.916	4.916	0	151%	70	130	0%	S
1,3-Butadiene-ug/m3	C	µg/m³	2.85348	2.85348		2.16776	0	0	2.212	2.212	0	132%	70	130	0%	S
1,3-Dichlorobenzene-ug/m3	C	µg/m³	8.23644	8.23644		5.83164	0	0	6.012	6.012	0	141%	70	130	0%	S
1,4-Dichlorobenzene-ug/m3	C	µg/m³	7.87572	7.87572		5.77152	0	0	6.012	6.012	0	136%	70	130	0%	S
1,4-Dioxane-ug/m3	C	µg/m³	4.8654	4.8654		3.45984	0	0	3.604	3.604	0	141%	70	130	0%	S
2-Butanone-ug/m3	C	µg/m³	4.21707	4.21707		2.91951	0	0	2.949	2.949	0	144%	70	130	0%	S
2-Hexanone-ug/m3	C	µg/m³	4.71155	4.71155		4.01506	0	0	4.097	4.097	0	117%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	3.09708	3.09708		2.48258	0	0	2.458	2.458	0	125%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	4.46682	4.46682		4.098	0	0	4.098	4.098	0	109%	70	130	0%	
Acetone-ug/m3	C	µg/m³	3.53875	3.53875		2.375	0	0	2.375	2.375	0	149%	70	130	0%	S
Benzene-ug/m3	C	µg/m³	4.2174	4.2174		3.0672	0	0	3.195	3.195	0	138%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	5.79824	5.79824		5.02169	0	0	5.177	5.177	0	115%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	7.77084	7.77084		6.43104	0	0	6.699	6.699	0	121%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	12.4044	12.4044		9.92352	0	0	10.337	10.337	0	125%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754175	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\\1\DATA\040811\	4/8/2011 5:41:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromomethane-ug/m3	C	µg/m³	4.23247	4.23247		3.61119	0	0	3.883	3.883	0	117%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.48768	3.48768		3.02058	0	0	3.114	3.114	0	115%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	7.42338	7.42338		5.97645	0	0	6.291	6.291	0	124%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	6.30748	6.30748		4.55796	0	0	4.604	4.604	0	138%	70	130	0%	S
Chlorodibromomethane-ug/m3	C	µg/m³	9.96723	9.96723		8.34862	0	0	8.519	8.519	0	119%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	2.84904	2.84904		2.42696	0	0	2.638	2.638	0	117%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	6.15258	6.15258		4.78534	0	0	4.883	4.883	0	129%	70	130	0%	
Chloromethane-ug/m3	C	µg/m³	2.45735	2.45735		1.96175	0	0	2.065	2.065	0	125%	70	130	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	4.63905	4.63905		3.8857	0	0	3.965	3.965	0	119%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	5.12907	5.12907		4.31205	0	0	4.539	4.539	0	119%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	4.1304	4.1304		3.37316	0	0	3.442	3.442	0	122%	70	130	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	5.29115	5.29115		4.5494	0	0	4.945	4.945	0	116%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	2.59992	2.59992		1.73328	0	0	1.884	1.884	0	150%	70	130	0%	S
Ethyl acetate-ug/m3	C	µg/m³	4.64787	4.64787		3.53094	0	0	3.603	3.603	0	132%	70	130	0%	S
Ethyl benzene-ug/m3	C	µg/m³	6.16564	6.16564		4.25516	0	0	4.342	4.342	0	145%	70	130	0%	S
Heptane-ug/m3	C	µg/m³	5.12375	5.12375		4.05801	0	0	4.099	4.099	0	126%	70	130	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	13.6512	13.6512		10.0251	0	0	10.665	10.665	0	136%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	24.83624	24.83624		16.67328	0	0	17.368	17.368	0	149%	70	130	0%	S
Methylene chloride-ug/m3	C	µg/m³	4.37724	4.37724		3.474	0	0	3.474	3.474	0	126%	70	130	0%	
n-Hexane-ug/m3	C	µg/m³	4.40625	4.40625		3.56025	0	0	3.525	3.525	0	124%	70	130	0%	
Naphthalene-ug/m3	C	µg/m³	4.82264	4.82264		4.82264	0	0	5.242	5.242	0	100%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	6.03538	6.03538		4.342	0	0	4.342	4.342	0	139%	70	130	0%	S
p-Ethyltoluene-ug/m3	C	µg/m³	6.93156	6.93156		4.81768	0	0	4.916	4.916	0	144%	70	130	0%	S
Propylene-ug/m3	C	µg/m³	2.0652	2.0652		1.75542	0	0	1.721	1.721	0	118%	70	130	0%	
Styrene-ug/m3	C	µg/m³	5.3676	5.3676		4.1748	0	0	4.26	4.26	0	129%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	5.1912	5.1912		3.56895	0	0	3.605	3.605	0	145%	70	130	0%	S
Tetrachloroethene-ug/m3	C	µg/m³	8.61314	8.61314		6.51072	0	0	6.782	6.782	0	132%	70	130	0%	S
Tetrahydrofuran-ug/m3	C	µg/m³	3.86319	3.86319		2.949	0	0	2.949	2.949	0	131%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	5.08815	5.08815		3.69362	0	0	3.769	3.769	0	138%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.55975	4.55975		3.8857	0	0	3.965	3.965	0	117%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	4.85673	4.85673		4.13049	0	0	4.539	4.539	0	118%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	6.39506	6.39506		5.15904	0	0	5.374	5.374	0	124%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	6.4607	6.4607		5.39328	0	0	5.618	5.618	0	120%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	4.33083	4.33083		3.48579	0	0	3.521	3.521	0	124%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754175	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040811\	4/8/2011 5:41:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl chloride-ug/m3	C	µg/m³	3.11832	3.11832		2.40264	0	0	2.556	2.556	0	130%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.11	12.11		12.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754176	MBLK 040811	EPA_TO15-ug/	MBLK	\I\DATA\040811\	4/8/2011 6:24:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754176	MBLK 040811	EPA_TO15-ug/	MBLK	\I\DATA\040811\4/8/2011 6:24:00		1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Bromodichloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Cyclohexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Heptane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	2	2	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
n-Hexane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Toluene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754176	MBLK 040811	EPA_TO15-ug/	MBLK	\I\DATA\040811	4/8/2011 6:24:00	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Vinyl acetate	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	1	1	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	6.865	6.865	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	7.664	7.664	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	5.456	5.456	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	7.421	7.421	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	7.688	7.688	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	4.047	4.047	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	4.621	4.621	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	2.212	2.212	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	6.012	6.012	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	3.604	3.604	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	4.097	4.097	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	2.458	2.458	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	4.098	4.098	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	2.375	2.375	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	0	0		0	0	0	3.195	3.195	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	5.177	5.177	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	6.699	6.699	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	10.337	10.337	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	3.883	3.883	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	3.114	3.114	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	6.291	6.291	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	4.604	4.604	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	8.519	8.519	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	2.638	2.638	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754176	MBLK 040811	EPA_TO15-ug/	MBLK	\\I\DATA\040811\4/8/2011 6:24:00		1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	4.883	4.883	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	2.065	2.065	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	0	0		0	0	0	3.442	3.442	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	4.945	4.945	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	1.884	1.884	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.603	3.603	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	0	0		0	0	0	4.099	4.099	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	10.665	10.665	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17.368	17.368	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	3.474	3.474	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	0	0		0	0	0	3.525	3.525	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	5.242	5.242	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	4.342	4.342	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	4.916	4.916	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	1.721	1.721	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	4.26	4.26	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	3.605	3.605	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	6.782	6.782	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	2.949	2.949	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	0	0		0	0	0	3.769	3.769	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	3.965	3.965	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	4.539	4.539	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	5.374	5.374	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	5.618	5.618	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	3.521	3.521	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	2.556	2.556	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.47	11.47		12.5	0	0	0	0	0	92%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754177	1103609-005A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/8/2011 7:05:00	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	3.86	154400		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754177	1103609-005A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/8/2011 7:05:00	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	14.8	592000		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	15.99	639600		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.53	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	10.09	403600		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	6.06	242400		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754177	1103609-005A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\4/8/2011 7:05:00		40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.3327	493308		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	50.9416	2037664		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754177	1103609-005A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 7:05:00	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	65.54301	2621720.4		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	13.28652	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	35.56725	1422690		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	22.84014	913605.6		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.39	495600		500000	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754178	1103609-005ADUP	EPA_TO15-ug/	DUP	\I\DATA\040811	4/8/2011 7:46:00	40000	R39704		0	754177	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754178	1103609-005ADUP	EPA_TO15-ug/	DUP	\I\DATA\040811	4/8/2011 7:46:00	40000	R39704		0	754177	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	3.95	158000		0	0	154400	40000	40000	0	0%	0	0	2%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754178	1103609-005ADUP	EPA_TO15-ug/	DUP	\I\DATA\040811	4/8/2011 7:46:00	40000	R39704		0	754177	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	15.39	615600		0	0	592000	40000	40000	0	0%	0	0	4%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	16.37	654800		0	0	639600	40000	40000	0	0%	0	0	2%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.57	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	10.32	412800		0	0	403600	40000	40000	0	0%	0	0	2%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	6.19	247600		0	0	242400	40000	40000	0	0%	0	0	2%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754178	1103609-005ADUP	EPA_TO15-ug/	DUP	\I\DATA\040811\4/8/2011 7:46:00		40000	R39704		0	754177	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	12.62025	504810		0	0	493308	127800	127800	0	0%	0	0	2%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	52.97238	2118895.2		0	0	2037664	137680	137680	0	0%	0	0	4%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754178	1103609-005ADUP	EPA_TO15-ug/	DUP	\I\DATA\040811	4/8/2011 7:46:00	40000	R39704		0	754177	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	67.10063	2684025.2		0	0	2621720.4	163960	163960	0	0%	0	0	2%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	13.63388	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	36.378	1455120		0	0	1422690	141000	141000	0	0%	0	0	2%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	23.33011	933204.4		0	0	913605.6	150760	150760	0	0%	0	0	2%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	500000	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	500000	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	500000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.32	492800		500000	0	495600	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754179	1103609-003A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 8:27:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754179	1103609-003A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 8:27:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	6.66	1065600		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754179	1103609-003A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 8:27:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Cyclohexane	A	ppbv	27.95	4472000		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	16.77	2683200		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.19	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	26.35	4216000		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	5.05	808000		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754179	1103609-003A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 8:27:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	21.2787	3404592		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	96.2039	15392624		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754179	1103609-003A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 8:27:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	68.74023	10998436.8		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	10.33396	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	92.88375	14861400		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	19.03345	3045352		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.1	1936000		2000000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754180	1103609-004A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 9:08:00	8000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754180	1103609-004A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 9:08:00	8000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Acetone	A	ppbv	12.5	100000		0	0	0	8000	8000	0	0%	0	0	0%	
Benzene	A	ppbv	14.34	114720		0	0	0	8000	8000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Chloromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754180	1103609-004A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/8/2011 9:08:00	8000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	37.51	300080		0	0	0	8000	8000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	2.2	17600		0	0	0	8000	8000	0	0%	0	0	0%	
Heptane	A	ppbv	27.14	217120		0	0	0	8000	8000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	4.49	35920		0	0	0	16000	16000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.36	10880		0	0	0	8000	8000	0	0%	0	0	0%	
n-Hexane	A	ppbv	33.16	265280		0	0	0	8000	8000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.1	8800		0	0	0	8000	8000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Toluene	A	ppbv	22.34	178720		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	8000	8000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	54920	54920	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	61312	61312	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	43648	43648	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	59368	59368	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754180	1103609-004A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 9:08:00	8000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	61504	61504	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	32376	32376	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	36968	36968	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	17696	17696	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	48096	48096	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	28832	28832	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	32776	32776	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	32784	32784	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	29.6875	237500		0	0	0	19000	19000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	45.8163	366530.4		0	0	0	25560	25560	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	41416	41416	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	53592	53592	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	82696	82696	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	31064	31064	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	24912	24912	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	50328	50328	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	36832	36832	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	68152	68152	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21104	21104	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	39064	39064	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	16520	16520	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	129.10942	1032875.36		0	0	0	27536	27536	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	39560	39560	0	0%	0	0	0%	
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	15072	15072	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28824	28824	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754180	1103609-004A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 9:08:00	8000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethyl benzene-ug/m3	C	µg/m³	9.5524	76419.2		0	0	0	34736	34736	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	111.24686	889974.88		0	0	0	32792	32792	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	85320	85320	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	38.99116	311929.28		0	0	0	138944	138944	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.72464	37797.12		0	0	0	27792	27792	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	116.889	935112		0	0	0	28200	28200	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	41936	41936	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	4.7762	38209.6		0	0	0	34736	34736	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	39328	39328	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	13768	13768	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	34080	34080	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	28840	28840	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	54256	54256	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	23592	23592	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	84.19946	673595.68		0	0	0	30152	30152	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	31720	31720	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	36312	36312	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	42992	42992	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	44944	44944	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	28168	28168	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20448	20448	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.23	97840		100000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754181	1103609-010A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 9:50:00	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754181	1103609-010A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\4/8/2011 9:50:00		80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	5.25	420000		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754181	1103609-010A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040811\4/8/2011 9:50:00		80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	15.6	1248000		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	6.76	540800		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.12	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.31	104800		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	16.07	1285600		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	5.81	464800		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754181	1103609-010A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\DATA\040811	4/8/2011 9:50:00	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	16.77375	1341900		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	53.6952	4295616		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754181	1103609-010A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 9:50:00	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	27.70924	2216739.2		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.72608	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.55094	364075.2		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	56.64675	4531740		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	21.89789	1751831.2		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.27	981600		1000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754182	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\DATA\040811	4/8/2011 10:31:0	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Benzene	A	ppbv	5.36	214400		0	0	0	40000	40000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754182	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\DATA\040811	4/8/2011 10:31:0	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	14.2	568000		0	0	0	40000	40000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Heptane	A	ppbv	6.1	244000		0	0	0	40000	40000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.05	42000		0	0	0	40000	40000	0	0%	0	0	0%	
n-Hexane	A	ppbv	7.69	307600		0	0	0	40000	40000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	3.81	152400		0	0	0	40000	40000	0	0%	0	0	0%	
Toluene	A	ppbv	2.86	114400		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40000	40000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274600	274600	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306560	306560	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218240	218240	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754182	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 10:31:0	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296840	296840	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307520	307520	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161880	161880	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184840	184840	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88480	88480	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240480	240480	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144160	144160	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117960	117960	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163880	163880	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98320	98320	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163920	163920	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	95000	95000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	17.1252	685008		0	0	0	127800	127800	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207080	207080	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267960	267960	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413480	413480	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155320	155320	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124560	124560	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251640	251640	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184160	184160	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340760	340760	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105520	105520	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195320	195320	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82600	82600	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	48.8764	1955056		0	0	0	137680	137680	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197800	197800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754182	1103609-013A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040811	4/8/2011 10:31:0	40000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75360	75360	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144120	144120	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	25.0039	1000156		0	0	0	163960	163960	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426600	426600	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.6477	145908		0	0	0	138960	138960	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	27.10725	1084290		0	0	0	141000	141000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209680	209680	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173680	173680	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68840	68840	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170400	170400	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144200	144200	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271280	271280	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	11.23569	449427.6		0	0	0	117960	117960	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	10.77934	431173.6		0	0	0	150760	150760	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158600	158600	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181560	181560	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214960	214960	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224720	224720	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140840	140840	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102240	102240	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.08	483200		500000	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754183	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 11:12:0	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	8.16	1305600		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754183	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\DATA\040811	4/8/2011 11:12:0	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	25.39	4062400		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	13.11	2097600		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.09	174400		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	23.29	3726400		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	10.12	1619200		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754183	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\4/8/2011 11:12:0		160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	26.0712	4171392		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	87.39238	13982780.8		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754183	1103609-014A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040811\4/8/2011 11:12:0		160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	53.73789	8598062.4		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	3.78666	605865.6		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	82.09725	13135560		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	38.14228	6102764.8		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.19	1950400		2000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754200	1103609-015A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/8/2011 11:54:0	4000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Benzene	A	ppbv	10.88	43520		0	0	0	4000	4000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754200	1103609-015A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040811	4/8/2011 11:54:0	4000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	16.55	66200		0	0	0	4000	4000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Heptane	A	ppbv	11.89	47560		0	0	0	4000	4000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	2.05	8200		0	0	0	8000	8000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.28	5120		0	0	0	4000	4000	0	0%	0	0	0%	
n-Hexane	A	ppbv	18.11	72440		0	0	0	4000	4000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Toluene	A	ppbv	14.9	59600		0	0	0	4000	4000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	4000	4000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21824	21824	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	27460	27460	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	30656	30656	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	21824	21824	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	16188	16188	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754200	1103609-015A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811'4/8/2011 11:54:0		4000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	29684	29684	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	30752	30752	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	16188	16188	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	18484	18484	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	8848	8848	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	24048	24048	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	14416	14416	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	11796	11796	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	16388	16388	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	9832	9832	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	16392	16392	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	9500	9500	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	34.7616	139046.4		0	0	0	12780	12780	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	20708	20708	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	26796	26796	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	41348	41348	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	15532	15532	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	12456	12456	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	25164	25164	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	18416	18416	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	34076	34076	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	10552	10552	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	19532	19532	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	8260	8260	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	18156	18156	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	56.9651	227860.4		0	0	0	13768	13768	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	19780	19780	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754200	1103609-015A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\4/8/2011 11:54:0		4000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	7536	7536	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	14412	14412	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	17368	17368	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	48.73711	194948.44		0	0	0	16396	16396	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	42660	42660	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	17.8022	71208.8		0	0	0	69472	69472	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.44672	17786.88		0	0	0	13896	13896	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	63.83775	255351		0	0	0	14100	14100	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	20968	20968	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	17368	17368	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	19664	19664	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	6884	6884	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	17040	17040	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	14420	14420	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	27128	27128	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	11796	11796	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	56.1581	224632.4		0	0	0	15076	15076	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	15860	15860	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	18156	18156	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	21496	21496	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	22472	22472	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	14084	14084	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	10224	10224	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.06	48240		50000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754185	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 1:16:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	7.26	1161600		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754185	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\4/9/2011 1:16:00		160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	20.37	3259200		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	13.99	2238400		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.06	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	1.43	228800		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	22.06	3529600		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	9.7	1552000		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754185	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 1:16:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	23.1957	3711312		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	70.11354	11218166.4		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754185	1103609-026A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 1:16:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	57.34501	9175201.6		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.20504	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	4.96782	794851.2		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	77.7615	12441840		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	36.5593	5849488		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.24	1958400		2000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754186	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040811	4/9/2011 1:58:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Acetone	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Benzene	A	ppbv	7.26	1161600		0	0	0	160000	160000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754186	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 1:58:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	20.62	3299200		0	0	0	160000	160000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Heptane	A	ppbv	14.06	2249600		0	0	0	160000	160000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.08	0		0	0	0	320000	320000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
n-Hexane	A	ppbv	22.45	3592000		0	0	0	160000	160000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Toluene	A	ppbv	9.7	1552000		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	1098400	1098400	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	1226240	1226240	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	872960	872960	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754186	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 1:58:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	1187360	1187360	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	1230080	1230080	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	647520	647520	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	739360	739360	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	353920	353920	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	961920	961920	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	576640	576640	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	655520	655520	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	655680	655680	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	0	0		0	0	0	380000	380000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	23.1957	3711312		0	0	0	511200	511200	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	828320	828320	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	1071840	1071840	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	1653920	1653920	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	621280	621280	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	498240	498240	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	1006560	1006560	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	736640	736640	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	1363040	1363040	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	422080	422080	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	781280	781280	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	330400	330400	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	70.97404	11355846.4		0	0	0	550720	550720	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	791200	791200	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754186	1103609-027A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\1\DATA\040811	4/9/2011 1:58:00	160000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	301440	301440	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	576480	576480	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	57.63194	9221110.4		0	0	0	655840	655840	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	1706400	1706400	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	9.37872	0		0	0	0	2778880	2778880	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	555840	555840	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	79.13625	12661800		0	0	0	564000	564000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	838720	838720	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	694720	694720	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	786560	786560	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	275360	275360	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	681600	681600	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	576800	576800	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	1085120	1085120	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	471840	471840	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	36.5593	5849488		0	0	0	603040	603040	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	634400	634400	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	726240	726240	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	859840	859840	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	898880	898880	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	563360	563360	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	408960	408960	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.03	1924800		2000000	0	0	0	0	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754187	1103609-028A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 2:40:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	2.55	102		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	12.95	518		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	9.94	397.6		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754187	1103609-028A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\\I\DATA\040811	4/9/2011 2:40:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	31.67	1266.8		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	18.89	755.6		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	1.32	0		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	33.83	1353.2		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	16.35	654		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754187	1103609-028A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 2:40:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	7.51995	300.798		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	30.75625	1230.25		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	31.7583	1270.332		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	109.00814	4360.3256		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754187	1103609-028A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/9/2011 2:40:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	77.43011	3097.2044		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	11.46288	0		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	119.25075	4770.03		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	61.62315	2464.926		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	11.9	476		500	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754188	1103609-024A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 4:03:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Acetone	A	ppbv	1.54	61.6		0	0	0	40	40	0	0%	0	0	0%	
Benzene	A	ppbv	7.55	302		0	0	0	40	40	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754188	1103609-024A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 4:03:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Cyclohexane	A	ppbv	9.15	366		0	0	0	40	40	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	1.47	58.8		0	0	0	40	40	0	0%	0	0	0%	
Heptane	A	ppbv	11.89	475.6		0	0	0	40	40	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	4.03	161.2		0	0	0	80	80	0	0%	0	0	0%	
Methylene chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
n-Hexane	A	ppbv	5.55	222		0	0	0	40	40	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
o-Xylene	A	ppbv	1.17	46.8		0	0	0	40	40	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Toluene	A	ppbv	26.48	1059.2		0	0	0	40	40	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	40	40	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	274.6	274.6	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	306.56	306.56	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	218.24	218.24	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754188	1103609-024A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 4:03:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	296.84	296.84	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	307.52	307.52	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	161.88	161.88	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	184.84	184.84	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	88.48	88.48	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	240.48	240.48	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	144.16	144.16	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	163.88	163.88	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	98.32	98.32	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	163.92	163.92	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	3.6575	146.3		0	0	0	95	95	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	24.12225	964.89		0	0	0	127.8	127.8	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	207.08	207.08	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	267.96	267.96	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	413.48	413.48	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	155.32	155.32	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	124.56	124.56	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	251.64	251.64	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	184.16	184.16	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	340.76	340.76	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	105.52	105.52	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	195.32	195.32	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	82.6	82.6	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	31.4943	1259.772		0	0	0	137.68	137.68	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	197.8	197.8	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
754188	1103609-024A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/9/2011 4:03:00	40	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	75.36	75.36	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	144.12	144.12	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.38274	255.3096		0	0	0	173.68	173.68	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	48.73711	1949.4844		0	0	0	163.96	163.96	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	426.6	426.6	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	34.99652	1399.8608		0	0	0	694.72	694.72	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	0	0		0	0	0	138.96	138.96	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	19.56375	782.55		0	0	0	141	141	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	209.68	209.68	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	5.08014	203.2056		0	0	0	173.68	173.68	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	196.64	196.64	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	68.84	68.84	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	170.4	170.4	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	144.2	144.2	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	271.28	271.28	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	117.96	117.96	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	99.80312	3992.1248		0	0	0	150.76	150.76	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	158.6	158.6	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	181.56	181.56	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	214.96	214.96	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	224.72	224.72	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	140.84	140.84	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	102.24	102.24	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.35	494		500	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756183	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/9/2011 11:34:0	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,2-Trichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2,4-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dibromoethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,2-Dichloropropane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3,5-Trimethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Butadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,3-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dichlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,4-Dioxane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Butanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Hexanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
2-Propanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
4-Methyl-2-pentanone	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Acetone	A	ppbv	1.13	90400		0	0	0	80000	80000	0	0%	0	0	0%	
Benzene	A	ppbv	4.44	355200		0	0	0	80000	80000	0	0%	0	0	0%	
Benzyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromodichloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromoform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Bromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon disulfide	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Carbon tetrachloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorobenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chlorodibromomethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Chloroform	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756183	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\1\DATA\040811	4/9/2011 11:34:0	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Chloromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
cis-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Cyclohexane	A	ppbv	16.57	1325600		0	0	0	80000	80000	0	0%	0	0	0%	
Dichlorodifluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethanol	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Ethylbenzene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Heptane	A	ppbv	7.96	636800		0	0	0	80000	80000	0	0%	0	0	0%	
Hexachlorobutadiene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
m,p-Xylene	A	ppbv	0	0		0	0	0	160000	160000	0	0%	0	0	0%	
Methylene chloride	A	ppbv	3.45	276000		0	0	0	80000	80000	0	0%	0	0	0%	
n-Hexane	A	ppbv	17.43	1394400		0	0	0	80000	80000	0	0%	0	0	0%	
Naphthalene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
o-Xylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
p-Ethyltoluene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Propylene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Styrene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
tert-Butyl Methyl Ether	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrachloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Tetrahydrofuran	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Toluene	A	ppbv	5.95	476000		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,2-Dichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
trans-1,3-dichloropropene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichloroethene	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Trichlorofluoromethane	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl acetate	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
Vinyl chloride	A	ppbv	0	0		0	0	0	80000	80000	0	0%	0	0	0%	
1,1,1-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	0	0		0	0	0	549200	549200	0	0%	0	0	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	0	0		0	0	0	613120	613120	0	0%	0	0	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	436480	436480	0	0%	0	0	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756183	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811\	4/9/2011 11:34:0	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	593680	593680	0	0%	0	0	0%	
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,2-Dibromoethane-ug/m3	C	µg/m³	0	0		0	0	0	615040	615040	0	0%	0	0	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,2-Dichloroethane-ug/m3	C	µg/m³	0	0		0	0	0	323760	323760	0	0%	0	0	0%	
1,2-Dichloropropane-ug/m3	C	µg/m³	0	0		0	0	0	369680	369680	0	0%	0	0	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
1,3-Butadiene-ug/m3	C	µg/m³	0	0		0	0	0	176960	176960	0	0%	0	0	0%	
1,3-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dichlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	480960	480960	0	0%	0	0	0%	
1,4-Dioxane-ug/m3	C	µg/m³	0	0		0	0	0	288320	288320	0	0%	0	0	0%	
2-Butanone-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
2-Hexanone-ug/m3	C	µg/m³	0	0		0	0	0	327760	327760	0	0%	0	0	0%	
2-Propanol-ug/m3	C	µg/m³	0	0		0	0	0	196640	196640	0	0%	0	0	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	0	0		0	0	0	327840	327840	0	0%	0	0	0%	
Acetone-ug/m3	C	µg/m³	2.68375	214700		0	0	0	190000	190000	0	0%	0	0	0%	
Benzene-ug/m3	C	µg/m³	14.1858	1134864		0	0	0	255600	255600	0	0%	0	0	0%	
Benzyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	414160	414160	0	0%	0	0	0%	
Bromodichloromethane-ug/m3	C	µg/m³	0	0		0	0	0	535920	535920	0	0%	0	0	0%	
Bromoform-ug/m3	C	µg/m³	0	0		0	0	0	826960	826960	0	0%	0	0	0%	
Bromomethane-ug/m3	C	µg/m³	0	0		0	0	0	310640	310640	0	0%	0	0	0%	
Carbon disulfide-ug/m3	C	µg/m³	0	0		0	0	0	249120	249120	0	0%	0	0	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	0	0		0	0	0	503280	503280	0	0%	0	0	0%	
Chlorobenzene-ug/m3	C	µg/m³	0	0		0	0	0	368320	368320	0	0%	0	0	0%	
Chlorodibromomethane-ug/m3	C	µg/m³	0	0		0	0	0	681520	681520	0	0%	0	0	0%	
Chloroethane-ug/m3	C	µg/m³	0	0		0	0	0	211040	211040	0	0%	0	0	0%	
Chloroform-ug/m3	C	µg/m³	0	0		0	0	0	390640	390640	0	0%	0	0	0%	
Chloromethane-ug/m3	C	µg/m³	0	0		0	0	0	165200	165200	0	0%	0	0	0%	
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Cyclohexane-ug/m3	C	µg/m³	57.03394	4562715.2		0	0	0	275360	275360	0	0%	0	0	0%	
Dichlorodifluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	395600	395600	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756183	1103609-025A (Container-01 of 01)	EPA_TO15-ug/	SAMP	\I\DATA\040811	4/9/2011 11:34:0	80000	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Ethanol-ug/m3	C	µg/m³	0	0		0	0	0	150720	150720	0	0%	0	0	0%	
Ethyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	288240	288240	0	0%	0	0	0%	
Ethyl benzene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
Heptane-ug/m3	C	µg/m³	32.62804	2610243.2		0	0	0	327920	327920	0	0%	0	0	0%	
Hexachlorobutadiene-ug/m3	C	µg/m³	0	0		0	0	0	853200	853200	0	0%	0	0	0%	
m,p-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	1389440	1389440	0	0%	0	0	0%	
Methylene chloride-ug/m3	C	µg/m³	11.9853	958824		0	0	0	277920	277920	0	0%	0	0	0%	
n-Hexane-ug/m3	C	µg/m³	61.44075	4915260		0	0	0	282000	282000	0	0%	0	0	0%	
Naphthalene-ug/m3	C	µg/m³	0	0		0	0	0	419360	419360	0	0%	0	0	0%	
o-Xylene-ug/m3	C	µg/m³	0	0		0	0	0	347360	347360	0	0%	0	0	0%	
p-Ethyltoluene-ug/m3	C	µg/m³	0	0		0	0	0	393280	393280	0	0%	0	0	0%	
Propylene-ug/m3	C	µg/m³	0	0		0	0	0	137680	137680	0	0%	0	0	0%	
Styrene-ug/m3	C	µg/m³	0	0		0	0	0	340800	340800	0	0%	0	0	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	0	0		0	0	0	288400	288400	0	0%	0	0	0%	
Tetrachloroethene-ug/m3	C	µg/m³	0	0		0	0	0	542560	542560	0	0%	0	0	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	0	0		0	0	0	235920	235920	0	0%	0	0	0%	
Toluene-ug/m3	C	µg/m³	22.42555	1794044		0	0	0	301520	301520	0	0%	0	0	0%	
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	317200	317200	0	0%	0	0	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	0	0		0	0	0	363120	363120	0	0%	0	0	0%	
Trichloroethene-ug/m3	C	µg/m³	0	0		0	0	0	429920	429920	0	0%	0	0	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	0	0		0	0	0	449440	449440	0	0%	0	0	0%	
Vinyl acetate-ug/m3	C	µg/m³	0	0		0	0	0	281680	281680	0	0%	0	0	0%	
Vinyl chloride-ug/m3	C	µg/m³	0	0		0	0	0	204480	204480	0	0%	0	0	0%	
1,4-Difluorobenzene	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.19	975200		1000000	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756184	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040811	4/9/2011 12:15:0	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756184	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040811	4/9/2011 12:15:0	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	1.26	1.26		0.96	0	0	1	1	0	131%	70	130	0%	S
1,1,2,2-Tetrachloroethane	A	ppbv	1.23	1.23		1	0	0	1	1	0	123%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	1.24	1.24		0.98	0	0	1	1	0	127%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1.25	1.25		0.98	0	0	1	1	0	128%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.25	1.25		0.97	0	0	1	1	0	129%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1.23	1.23		0.99	0	0	1	1	0	124%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	0.75	0.75		0.91	0	0	1	1	0	82%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	1.33	1.33		0.98	0	0	1	1	0	136%	70	130	0%	S
1,2-Dibromoethane	A	ppbv	1.21	1.21		0.96	0	0	1	1	0	126%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.27	1.27		0.97	0	0	1	1	0	131%	70	130	0%	S
1,2-Dichloroethane	A	ppbv	1.37	1.37		0.97	0	0	1	1	0	141%	70	130	0%	S
1,2-Dichloropropane	A	ppbv	1.27	1.27		0.98	0	0	1	1	0	130%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	1.42	1.42		0.97	0	0	1	1	0	146%	70	130	0%	S
1,3-Butadiene	A	ppbv	1.46	1.46		0.98	0	0	1	1	0	149%	70	130	0%	S
1,3-Dichlorobenzene	A	ppbv	1.27	1.27		0.97	0	0	1	1	0	131%	70	130	0%	S
1,4-Dichlorobenzene	A	ppbv	1.26	1.26		0.96	0	0	1	1	0	131%	70	130	0%	S
1,4-Dioxane	A	ppbv	1	1		0.96	0	0	1	1	0	104%	70	130	0%	
2-Butanone	A	ppbv	1.38	1.38		0.99	0	0	1	1	0	139%	70	130	0%	S
2-Hexanone	A	ppbv	0.96	0.96		0.98	0	0	1	1	0	98%	70	130	0%	
2-Propanol	A	ppbv	1.23	1.23		1.01	0	0	1	1	0	122%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	1.1	1.1		1	0	0	1	1	0	110%	70	130	0%	
Acetone	A	ppbv	1.56	1.56		1	0	0	1	1	0	156%	70	130	0%	S
Benzene	A	ppbv	1.65	1.65		0.96	0	0	1	1	0	172%	70	130	0%	S
Benzyl chloride	A	ppbv	1.09	1.09		0.97	0	0	1	1	0	112%	70	130	0%	
Bromodichloromethane	A	ppbv	1.19	1.19		0.96	0	0	1	1	0	124%	70	130	0%	
Bromoform	A	ppbv	1.13	1.13		0.96	0	0	1	1	0	118%	70	130	0%	
Bromomethane	A	ppbv	1.15	1.15		0.93	0	0	1	1	0	124%	70	130	0%	
Carbon disulfide	A	ppbv	1.17	1.17		0.97	0	0	1	1	0	121%	70	130	0%	
Carbon tetrachloride	A	ppbv	1.22	1.22		0.95	0	0	1	1	0	128%	70	130	0%	
Chlorobenzene	A	ppbv	1.37	1.37		0.99	0	0	1	1	0	138%	70	130	0%	S
Chlorodibromomethane	A	ppbv	1.17	1.17		0.98	0	0	1	1	0	119%	70	130	0%	
Chloroethane	A	ppbv	1.14	1.14		0.92	0	0	1	1	0	124%	70	130	0%	
Chloroform	A	ppbv	1.33	1.33		0.98	0	0	1	1	0	136%	70	130	0%	S
Chloromethane	A	ppbv	1.25	1.25		0.95	0	0	1	1	0	132%	70	130	0%	S

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756184	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\I\DATA\040811	4/9/2011 12:15:0	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	1.25	1.25		0.98	0	0	1	1	0	128%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	1.14	1.14		0.95	0	0	1	1	0	120%	70	130	0%	
Cyclohexane	A	ppbv	1.78	1.78		0.98	0	0	1	1	0	182%	70	130	0%	S
Dichlorodifluoromethane	A	ppbv	1.14	1.14		0.92	0	0	1	1	0	124%	70	130	0%	
Ethanol	A	ppbv	1.31	1.31		0.92	0	0	1	1	0	142%	70	130	0%	S
Ethyl acetate	A	ppbv	1.23	1.23		0.98	0	0	1	1	0	126%	70	130	0%	
Ethylbenzene	A	ppbv	1.43	1.43		0.98	0	0	1	1	0	146%	70	130	0%	S
Heptane	A	ppbv	1.7	1.7		0.99	0	0	1	1	0	172%	70	130	0%	S
Hexachlorobutadiene	A	ppbv	1.28	1.28		0.94	0	0	1	1	0	136%	70	130	0%	S
m,p-Xylene	A	ppbv	2.92	2.92		1.92	0	0	2	2	0	152%	70	130	0%	S
Methylene chloride	A	ppbv	1.43	1.43		1	0	0	1	1	0	143%	70	130	0%	S
n-Hexane	A	ppbv	1.74	1.74		1.01	0	0	1	1	0	172%	70	130	0%	S
Naphthalene	A	ppbv	0.7	0.7		0.92	0	0	1	1	0	76%	70	130	0%	
o-Xylene	A	ppbv	1.38	1.38		1	0	0	1	1	0	138%	70	130	0%	S
p-Ethyltoluene	A	ppbv	1.36	1.36		0.98	0	0	1	1	0	139%	70	130	0%	S
Propylene	A	ppbv	1.27	1.27		1.02	0	0	1	1	0	125%	70	130	0%	
Styrene	A	ppbv	1.23	1.23		0.98	0	0	1	1	0	126%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	1.4	1.4		0.99	0	0	1	1	0	141%	70	130	0%	S
Tetrachloroethene	A	ppbv	1.22	1.22		0.96	0	0	1	1	0	127%	70	130	0%	
Tetrahydrofuran	A	ppbv	1.44	1.44		1	0	0	1	1	0	144%	70	130	0%	S
Toluene	A	ppbv	2.02	2.02		0.98	0	0	1	1	0	206%	70	130	0%	S
trans-1,2-Dichloroethene	A	ppbv	1.2	1.2		0.98	0	0	1	1	0	122%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	1.04	1.04		0.91	0	0	1	1	0	114%	70	130	0%	
Trichloroethene	A	ppbv	1.22	1.22		0.96	0	0	1	1	0	127%	70	130	0%	
Trichlorofluoromethane	A	ppbv	1.21	1.21		0.96	0	0	1	1	0	126%	70	130	0%	
Vinyl acetate	A	ppbv	1.2	1.2		0.99	0	0	1	1	0	121%	70	130	0%	
Vinyl chloride	A	ppbv	1.34	1.34		0.94	0	0	1	1	0	143%	70	130	0%	S
1,1,1-Trichloroethane-ug/m3	C	µg/m³	6.87456	6.87456		5.23776	0	0	5.456	5.456	0	131%	70	130	0%	S
1,1,2,2-Tetrachloroethane-ug/m3	C	µg/m³	8.44395	8.44395		6.865	0	0	6.865	6.865	0	123%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	C	µg/m³	9.50336	9.50336		7.51072	0	0	7.664	7.664	0	127%	70	130	0%	
1,1,2-Trichloroethane-ug/m3	C	µg/m³	6.82	6.82		5.34688	0	0	5.456	5.456	0	128%	70	130	0%	
1,1-Dichloroethane-ug/m3	C	µg/m³	5.05875	5.05875		3.92559	0	0	4.047	4.047	0	129%	70	130	0%	
1,1-Dichloroethene-ug/m3	C	µg/m³	4.87695	4.87695		3.92535	0	0	3.965	3.965	0	124%	70	130	0%	
1,2,4-Trichlorobenzene-ug/m3	C	µg/m³	5.56575	5.56575		6.75311	0	0	7.421	7.421	0	82%	70	130	0%	

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756184	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\1\DATA\040811\4/9/2011 12:15:0		1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,2,4-Trimethylbenzene-ug/m3	C	µg/m³	6.53828	6.53828		4.81768	0	0	4.916	4.916	0	136%	70	130	0%	S
1,2-Dibromoethane-ug/m3	C	µg/m³	9.30248	9.30248		7.38048	0	0	7.688	7.688	0	126%	70	130	0%	
1,2-Dichlorobenzene-ug/m3	C	µg/m³	7.63524	7.63524		5.83164	0	0	6.012	6.012	0	131%	70	130	0%	S
1,2-Dichloroethane-ug/m3	C	µg/m³	5.54439	5.54439		3.92559	0	0	4.047	4.047	0	141%	70	130	0%	S
1,2-Dichloropropane-ug/m3	C	µg/m³	5.86867	5.86867		4.52858	0	0	4.621	4.621	0	130%	70	130	0%	
1,3,5-Trimethylbenzene-ug/m3	C	µg/m³	6.98072	6.98072		4.76852	0	0	4.916	4.916	0	146%	70	130	0%	S
1,3-Butadiene-ug/m3	C	µg/m³	3.22952	3.22952		2.16776	0	0	2.212	2.212	0	149%	70	130	0%	S
1,3-Dichlorobenzene-ug/m3	C	µg/m³	7.63524	7.63524		5.83164	0	0	6.012	6.012	0	131%	70	130	0%	S
1,4-Dichlorobenzene-ug/m3	C	µg/m³	7.57512	7.57512		5.77152	0	0	6.012	6.012	0	131%	70	130	0%	S
1,4-Dioxane-ug/m3	C	µg/m³	3.604	3.604		3.45984	0	0	3.604	3.604	0	104%	70	130	0%	
2-Butanone-ug/m3	C	µg/m³	4.06962	4.06962		2.91951	0	0	2.949	2.949	0	139%	70	130	0%	S
2-Hexanone-ug/m3	C	µg/m³	3.93312	3.93312		4.01506	0	0	4.097	4.097	0	98%	70	130	0%	
2-Propanol-ug/m3	C	µg/m³	3.02334	3.02334		2.48258	0	0	2.458	2.458	0	122%	70	130	0%	
4-Methyl-2-pentanone-ug/m3	C	µg/m³	4.5078	4.5078		4.098	0	0	4.098	4.098	0	110%	70	130	0%	
Acetone-ug/m3	C	µg/m³	3.705	3.705		2.375	0	0	2.375	2.375	0	156%	70	130	0%	S
Benzene-ug/m3	C	µg/m³	5.27175	5.27175		3.0672	0	0	3.195	3.195	0	172%	70	130	0%	S
Benzyl chloride-ug/m3	C	µg/m³	5.64293	5.64293		5.02169	0	0	5.177	5.177	0	112%	70	130	0%	
Bromodichloromethane-ug/m3	C	µg/m³	7.97181	7.97181		6.43104	0	0	6.699	6.699	0	124%	70	130	0%	
Bromoform-ug/m3	C	µg/m³	11.68081	11.68081		9.92352	0	0	10.337	10.337	0	118%	70	130	0%	
Bromomethane-ug/m3	C	µg/m³	4.46545	4.46545		3.61119	0	0	3.883	3.883	0	124%	70	130	0%	
Carbon disulfide-ug/m3	C	µg/m³	3.64338	3.64338		3.02058	0	0	3.114	3.114	0	121%	70	130	0%	
Carbon tetrachloride-ug/m3	C	µg/m³	7.67502	7.67502		5.97645	0	0	6.291	6.291	0	128%	70	130	0%	
Chlorobenzene-ug/m3	C	µg/m³	6.30748	6.30748		4.55796	0	0	4.604	4.604	0	138%	70	130	0%	S
Chlorodibromomethane-ug/m3	C	µg/m³	9.96723	9.96723		8.34862	0	0	8.519	8.519	0	119%	70	130	0%	
Chloroethane-ug/m3	C	µg/m³	3.00732	3.00732		2.42696	0	0	2.638	2.638	0	124%	70	130	0%	
Chloroform-ug/m3	C	µg/m³	6.49439	6.49439		4.78534	0	0	4.883	4.883	0	136%	70	130	0%	S
Chloromethane-ug/m3	C	µg/m³	2.58125	2.58125		1.96175	0	0	2.065	2.065	0	132%	70	130	0%	S
cis-1,2-Dichloroethene-ug/m3	C	µg/m³	4.95625	4.95625		3.8857	0	0	3.965	3.965	0	128%	70	130	0%	
cis-1,3-Dichloropropene-ug/m3	C	µg/m³	5.17446	5.17446		4.31205	0	0	4.539	4.539	0	120%	70	130	0%	
Cyclohexane-ug/m3	C	µg/m³	6.12676	6.12676		3.37316	0	0	3.442	3.442	0	182%	70	130	0%	S
Dichlorodifluoromethane-ug/m3	C	µg/m³	5.6373	5.6373		4.5494	0	0	4.945	4.945	0	124%	70	130	0%	
Ethanol-ug/m3	C	µg/m³	2.46804	2.46804		1.73328	0	0	1.884	1.884	0	142%	70	130	0%	S
Ethyl acetate-ug/m3	C	µg/m³	4.43169	4.43169		3.53094	0	0	3.603	3.603	0	126%	70	130	0%	
Ethyl benzene-ug/m3	C	µg/m³	6.20906	6.20906		4.25516	0	0	4.342	4.342	0	146%	70	130	0%	S

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756184	TO15 RLVS 20cc v	EPA_TO15-ug/	RLVS	\\1\DATA\040811	4/9/2011 12:15:0	1	R39704		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Heptane-ug/m3	C	µg/m³	6.9683	6.9683		4.05801	0	0	4.099	4.099	0	172%	70	130	0%	S
Hexachlorobutadiene-ug/m3	C	µg/m³	13.6512	13.6512		10.0251	0	0	10.665	10.665	0	136%	70	130	0%	S
m,p-Xylene-ug/m3	C	µg/m³	25.35728	25.35728		16.67328	0	0	17.368	17.368	0	152%	70	130	0%	S
Methylene chloride-ug/m3	C	µg/m³	4.96782	4.96782		3.474	0	0	3.474	3.474	0	143%	70	130	0%	S
n-Hexane-ug/m3	C	µg/m³	6.1335	6.1335		3.56025	0	0	3.525	3.525	0	172%	70	130	0%	S
Naphthalene-ug/m3	C	µg/m³	3.6694	3.6694		4.82264	0	0	5.242	5.242	0	76%	70	130	0%	
o-Xylene-ug/m3	C	µg/m³	5.99196	5.99196		4.342	0	0	4.342	4.342	0	138%	70	130	0%	S
p-Ethyltoluene-ug/m3	C	µg/m³	6.68576	6.68576		4.81768	0	0	4.916	4.916	0	139%	70	130	0%	S
Propylene-ug/m3	C	µg/m³	2.18567	2.18567		1.75542	0	0	1.721	1.721	0	125%	70	130	0%	
Styrene-ug/m3	C	µg/m³	5.2398	5.2398		4.1748	0	0	4.26	4.26	0	126%	70	130	0%	
tert-Butyl methyl ether-ug/m3	C	µg/m³	5.047	5.047		3.56895	0	0	3.605	3.605	0	141%	70	130	0%	S
Tetrachloroethene-ug/m3	C	µg/m³	8.27404	8.27404		6.51072	0	0	6.782	6.782	0	127%	70	130	0%	
Tetrahydrofuran-ug/m3	C	µg/m³	4.24656	4.24656		2.949	0	0	2.949	2.949	0	144%	70	130	0%	S
Toluene-ug/m3	C	µg/m³	7.61338	7.61338		3.69362	0	0	3.769	3.769	0	206%	70	130	0%	S
trans-1,2-Dichloroethene-ug/m3	C	µg/m³	4.758	4.758		3.8857	0	0	3.965	3.965	0	122%	70	130	0%	
trans-1,3-Dichloropropene-ug/m3	C	µg/m³	4.72056	4.72056		4.13049	0	0	4.539	4.539	0	114%	70	130	0%	
Trichloroethene-ug/m3	C	µg/m³	6.55628	6.55628		5.15904	0	0	5.374	5.374	0	127%	70	130	0%	
Trichlorofluoromethane-ug/m3	C	µg/m³	6.79778	6.79778		5.39328	0	0	5.618	5.618	0	126%	70	130	0%	
Vinyl acetate-ug/m3	C	µg/m³	4.2252	4.2252		3.48579	0	0	3.521	3.521	0	121%	70	130	0%	
Vinyl chloride-ug/m3	C	µg/m³	3.42504	3.42504		2.40264	0	0	2.556	2.556	0	143%	70	130	0%	S
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Bromochloromethane	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	ppbv	12.05	12.05		12.5	0	0	0	0	0	96%	70	130	0%	

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	12.5	12.34	98.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.35	98.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752963	MBLK	EPA_TO15-UG/M3	MBLK	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	12.5	11.77	94.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752964	1103389-010B	EPA_TO15-UG/M3	SAMP	R39639	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	978400	97.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752965	1103389-010BDUP	EPA_TO15-UG/M3	DUP	R39639	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	1000000	967200	96.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752966	1103389-021B	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	104960	104.96%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752967	1103389-034B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	511.6	102.32%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752968	1103389-035B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	518	103.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752969	1103389-036B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	523.2	104.64%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752970	1103389-037B	EPA_TO15-UG/M3	SAMP	R39639	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	500	626.4	125.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752971	1103389-022B	EPA_TO15-UG/M3	SAMP	R39639	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	250000	254000	101.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752972	1103389-023B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	500000	503600	100.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752973	1103389-024B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	488800	97.76%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752974	1103389-025B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	496000	99.20%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752975	1103389-026B	EPA_TO15-UG/M3	SAMP	R39639	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1000000	972800	97.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752976	1103389-027B	EPA_TO15-UG/M3	SAMP	R39639	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	496800	99.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752977	1103389-028B	EPA_TO15-UG/M3	SAMP	R39639	20000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	250000	246200	98.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752978	1103389-038A	EPA_TO15-UG/M3	SAMP	R39639	24

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	300	305.76	101.92%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
752981	1103609-001A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	100720	100.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752982	1103609-006A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99600	99.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752983	1103609-007A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	100240	100.24%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752984	1103609-008A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100800	100.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752985	1103609-009A	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	100000	100800	100.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.67	101.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752988	1103389-029B	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	97120	97.12%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
752989	1103389-030B	EPA_TO15-UG/M3	SAMP	R39639	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	98240	98.24%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.59	100.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.58	100.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753230	MBLK	EPA_TO15-UG/M3	MBLK	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.19	97.52%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753231	1103389-018B	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100480	100.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753232	1103389-019B	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100320	100.32%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753233	1103389-019BDUP	EPA_TO15-UG/M3	DUP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99280	99.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753234	1103389-020B	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100000	100.00%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753235	1103389-021B	EPA_TO15-UG/M3	SAMP	R39665	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1996800	99.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753236	1103389-022B	EPA_TO15-UG/M3	SAMP	R39665	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	500000	497200	99.44%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
753237	1103389-023B	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	988000	98.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753238	1103389-025B	EPA_TO15-UG/M3	SAMP	R39665	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1974400	98.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753239	1103389-026B	EPA_TO15-UG/M3	SAMP	R39665	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1969600	98.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753240	1103389-027B	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	984800	98.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753241	1103609-017A	EPA_TO15-UG/M3	SAMP	R39665	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	50000	49640	99.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753242	1103609-008A	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	996000	99.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753243	1103609-009A	EPA_TO15-UG/M3	SAMP	R39665	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	959200	95.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753244	1103609-005A	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	101040	101.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
753245	1103609-010A	EPA_TO15-UG/M3	SAMP	R39665	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	103200	103.20%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
✔	4-Bromofluorobenzene	12.5	12.51	100.08%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
754005	TO15 L2 40cc voa	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.51	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754006	TO15 L3 20cc voa	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.48	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754007	TO15 L4 40cc voa	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.54	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754008	TO15 L5 48cc voa	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	14.93	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754009	TO15 L6 60cc voa	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.53	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754010	TO15 L7 80cc voa	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.57	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754014	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.46	99.68%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754015	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.17	97.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754016	MBLK 040711	EPA_TO15-ug/m3	MBLK	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.9	95.20%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
754017	1103609-011A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99280	99.28%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754018	1103609-011ADUP	EPA_TO15-ug/m3	DUP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99600	99.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754019	1103609-012A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	98800	98.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754020	1103609-013A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100560	100.56%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754021	1103609-014A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	106320	106.32%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754022	1103609-016A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	98720	98.72%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754023	1103609-018A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	99360	99.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754024	1103609-019A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	98080	98.08%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754025	1103609-020A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	96960	96.96%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
754026	1103609-021A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	96160	96.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754027	1103609-022A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	96640	96.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754028	1103609-025A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	100160	100.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754029	1103609-026A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	102000	102.00%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754030	1103609-027A	EPA_TO15-ug/m3	SAMP	R39697	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	101680	101.68%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754031	TO15 L8 120cc vo	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.53	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754032	TO15 L9 200cc vo	EPA_TO15	ICAL	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	0	12.57	0.00%	0	0		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754110	1103609-023A	EPA_TO15-ug/m3	SAMP	R39697	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	50000	48480	96.96%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754111	1103609-002A	EPA_TO15-ug/m3	SAMP	R39697	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	495.2	99.04%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
754170	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.05	96.40%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
754174	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39704	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.13	97.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754175	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.11	96.88%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754176	MBLK 040811	EPA_TO15-ug/m3	MBLK	R39704	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	11.47	91.76%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754177	1103609-005A	EPA_TO15-ug/m3	SAMP	R39704	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	500000	495600	99.12%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754178	1103609-005ADUP	EPA_TO15-ug/m3	DUP	R39704	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500000	492800	98.56%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754179	1103609-003A	EPA_TO15-ug/m3	SAMP	R39704	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	2000000	1936000	96.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754180	1103609-004A	EPA_TO15-ug/m3	SAMP	R39704	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	100000	97840	97.84%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754181	1103609-010A	EPA_TO15-ug/m3	SAMP	R39704	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	981600	98.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754182	1103609-013A	EPA_TO15-ug/m3	SAMP	R39704	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	500000	483200	96.64%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
754183	1103609-014A	EPA_TO15-ug/m3	SAMP	R39704	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1950400	97.52%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754185	1103609-026A	EPA_TO15-ug/m3	SAMP	R39704	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1958400	97.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754186	1103609-027A	EPA_TO15-ug/m3	SAMP	R39704	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	2000000	1924800	96.24%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754187	1103609-028A	EPA_TO15-ug/m3	SAMP	R39704	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	476	95.20%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754188	1103609-024A	EPA_TO15-ug/m3	SAMP	R39704	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	500	494	98.80%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
754200	1103609-015A	EPA_TO15-ug/m3	SAMP	R39704	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	50000	48240	96.48%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756183	1103609-025A	EPA_TO15-ug/m3	SAMP	R39704	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☐	4-Bromofluorobenzene	1000000	975200	97.52%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756184	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	12.5	12.05	96.40%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	Dichlorodifluoromethane-ug/m3	49.45	43.3182	87.60%	70	130		
✔	Methylene chloride-ug/m3	34.0452	28.3131	83.16%	70	130		
✔	Methylene chloride	9.8	8.15	83.16%	70	130		
✔	m,p-Xylene-ug/m3	173.68	134.949	77.70%	70	130		
✔	m,p-Xylene	20	15.54	77.70%	70	130		
✔	Hexachlorobutadiene-ug/m3	104.517	59.2974	56.73%	70	130	*	S
✔	Hexachlorobutadiene	9.8	5.56	56.73%	70	130	*	S
✔	Heptane-ug/m3	40.99	35.0465	85.50%	70	130		
✔	Heptane	10	8.55	85.50%	70	130		
✔	Ethylbenzene	10	8.17	81.70%	70	130		
✔	Ethyl benzene-ug/m3	43.42	35.4741	81.70%	70	130		
✔	Ethyl acetate-ug/m3	36.03	29.6167	82.20%	70	130		
✔	Ethyl acetate	10	8.22	82.20%	70	130		
✔	Chlorodibromomethane-ug/m3	85.19	70.2818	82.50%	70	130		
✔	Ethanol	12.2	9.99	81.89%	70	130		
✔	o-Xylene	10	8.2	82.00%	70	130		
✔	Dichlorodifluoromethane	10	8.76	87.60%	70	130		
✔	Cyclohexane-ug/m3	35.1084	28.9472	82.45%	70	130		
✔	Cyclohexane	10.2	8.41	82.45%	70	130		
✔	cis-1,3-Dichloropropene-ug/m3	48.1134	34.9049	72.55%	70	130		
✔	cis-1,3-dichloropropene	10.6	7.69	72.55%	70	130		
✔	cis-1,2-Dichloroethene-ug/m3	39.65	34.4162	86.80%	70	130		
✔	cis-1,2-Dichloroethene	10	8.68	86.80%	70	130		
✔	Chloromethane-ug/m3	21.063	23.7888	112.94%	70	130		
✔	Chloromethane	10.2	11.52	112.94%	70	130		
✔	Chloroform-ug/m3	49.8066	41.5543	83.43%	70	130		
✔	Chloroform	10.2	8.51	83.43%	70	130		
✔	Chloroethane-ug/m3	26.38	18.8881	71.60%	70	130		
✔	Chloroethane	10	7.16	71.60%	70	130		
✔	Ethanol-ug/m3	22.9848	18.8212	81.89%	70	130		
✔	Tetrahydrofuran-ug/m3	29.49	26.4820	89.80%	70	130		
✔	1,1,1-Trichloroethane	10	8.43	84.30%	70	130		
✔	Vinyl chloride-ug/m3	25.56	23.7964	93.10%	70	130		
✔	Vinyl chloride	10	9.31	93.10%	70	130		
✔	Vinyl acetate-ug/m3	35.21	23.3794	66.40%	70	130	*	S
✔	Vinyl acetate	10	6.64	66.40%	70	130	*	S
✔	Trichlorofluoromethane-ug/m3	56.18	49.7193	88.50%	70	130		
✔	Trichlorofluoromethane	10	8.85	88.50%	70	130		
✔	Trichloroethene-ug/m3	73.0864	77.6543	106.25%	70	130		
✔	Trichloroethene	13.6	14.45	106.25%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,3-Dichloropropene-ug/m3	42.6666	31.9546	74.89%	70	130		
☑	trans-1,3-dichloropropene	9.4	7.04	74.89%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	39.65	33.306	84.00%	70	130		
☑	trans-1,2-Dichloroethene	10	8.4	84.00%	70	130		
☑	n-Hexane-ug/m3	35.955	28.059	78.04%	70	130		
☑	Styrene-ug/m3	42.6	36.2952	85.20%	70	130		
☑	n-Hexane	10.2	7.96	78.04%	70	130		
☑	o-Xylene-ug/m3	43.42	35.6044	82.00%	70	130		
☑	p-Ethyltoluene	10.6	7.42	70.00%	70	130		
☑	p-Ethyltoluene-ug/m3	52.1096	36.4767	70.00%	70	130		
☑	Propylene	10	10.13	101.30%	70	130		
☑	Toluene-ug/m3	37.69	31.5465	83.70%	70	130		
☑	Styrene	10	8.52	85.20%	70	130		
☑	Toluene	10	8.37	83.70%	70	130		
☑	tert-Butyl Methyl Ether	10	7.35	73.50%	70	130		
☑	tert-Butyl methyl ether-ug/m3	36.05	26.4968	73.50%	70	130		
☑	Tetrachloroethene	10	8.65	86.50%	70	130		
☑	Tetrachloroethene-ug/m3	67.82	58.6643	86.50%	70	130		
☑	Tetrahydrofuran	10	8.98	89.80%	70	130		
☑	Naphthalene-ug/m3	52.42	38.5287	73.50%	70	130		
☑	Propylene-ug/m3	17.21	17.4337	101.30%	70	130		
☑	1,2,4-Trimethylbenzene	10	7.58	75.80%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	60.12	46.4728	77.30%	70	130		
☑	1,3-Dichlorobenzene	10	7.73	77.30%	70	130		
☑	1,3-Butadiene-ug/m3	22.12	20.4831	92.60%	70	130		
☑	1,3-Butadiene	10	9.26	92.60%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	49.16	37.165	75.60%	70	130		
☑	1,3,5-Trimethylbenzene	10	7.56	75.60%	70	130		
☑	1,2-Dichloropropane-ug/m3	46.21	37.1066	80.30%	70	130		
☑	1,2-Dichloropropane	10	8.03	80.30%	70	130		
☑	1,2-Dichloroethane-ug/m3	40.47	32.4165	80.10%	70	130		
☑	1,2-Dichloroethane	10	8.01	80.10%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	60.12	45.3906	75.50%	70	130		
☑	**1,1,2,2-Tetrachloroethane**	4.17	1.38	**33.09%**	70	130	*	S
☑	1,4-Dichlorobenzene	10.2	7.77	76.18%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	49.16	37.2633	75.80%	70	130		
☑	1,2-Dichlorobenzene	10	7.55	75.50%	70	130		
☑	**1,2,4-Trichlorobenzene-ug/m3**	78.6626	51.7244	**65.75%**	70	130	*	S
☑	**1,2,4-Trichlorobenzene**	10.6	6.97	**65.75%**	70	130	*	S
☑	1,1-Dichloroethene-ug/m3	39.65	32.4337	81.80%	70	130		
☑	1,1-Dichloroethene	10	8.18	81.80%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,1-Dichloroethane-ug/m3	40.47	35.4113	87.50%	70	130		
✔	1,1-Dichloroethane	10	8.75	87.50%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	54.56	42.1203	77.20%	70	130		
✔	1,1,2-Trichloroethane	10	7.72	77.20%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	66.6768	88.78%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	8.7	88.78%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	9.4737	33.09%	70	130	*	S
✔	Chlorodibromomethane	10	8.25	82.50%	70	130		
✔	Naphthalene	10	7.35	73.50%	70	130		
✔	1,2-Dibromoethane-ug/m3	76.88	51.5096	67.00%	70	130	*	S
✔	Carbon disulfide	10	8.51	85.10%	70	130		
✔	Benzyl chloride	5.4	2.35	43.52%	70	130	*	S
✔	Benzyl chloride-ug/m3	27.9558	12.166	43.52%	70	130	*	S
✔	Bromodichloromethane	10.2	8.54	83.73%	70	130		
✔	Bromodichloromethane-ug/m3	68.3298	57.2095	83.73%	70	130		
✔	Bromoform	9.8	7.78	79.39%	70	130		
✔	Bromoform-ug/m3	101.303	80.4219	79.39%	70	130		
✔	Benzene-ug/m3	31.95	25.0808	78.50%	70	130		
✔	Bromomethane-ug/m3	38.83	19.6868	50.70%	70	130	*	S
✔	Carbon tetrachloride-ug/m3	62.91	53.7881	85.50%	70	130		
✔	Carbon disulfide-ug/m3	31.14	26.5001	85.10%	70	130		
✔	Carbon tetrachloride	10	8.55	85.50%	70	130		
✔	1,4-Dichlorobenzene-ug/m3	61.3224	46.7132	76.18%	70	130		
✔	Chlorobenzene	10	7.71	77.10%	70	130		
✔	1,2-Dibromoethane	10	6.7	67.00%	70	130	*	S
✔	Chlorobenzene-ug/m3	46.04	35.4968	77.10%	70	130		
✔	Bromomethane	10	5.07	50.70%	70	130	*	S
✔	1,4-Dioxane	10	8.14	81.40%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	54.56	45.9941	84.30%	70	130		
✔	1,4-Dioxane-ug/m3	36.04	29.3366	81.40%	70	130		
✔	2-Butanone	10.2	8.25	80.88%	70	130		
✔	2-Butanone-ug/m3	30.0798	24.3293	80.88%	70	130		
✔	2-Hexanone	10	12.71	127.10%	70	130		
✔	2-Hexanone-ug/m3	40.97	52.0729	127.10%	70	130		
✔	2-Propanol-ug/m3	24.58	23.5231	95.70%	70	130		
✔	4-Methyl-2-pentanone	10.6	9.47	89.34%	70	130		
✔	4-Methyl-2-pentanone-ug/m3	43.4388	38.8081	89.34%	70	130		
✔	Acetone	10	7.64	76.40%	70	130		
✔	Acetone-ug/m3	23.75	18.145	76.40%	70	130		
✔	Benzene	10	7.85	78.50%	70	130		
✔	2-Propanol	10	9.57	95.70%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752961	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
	Total Recoveries Out: 14							

752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dioxane	0.96	0.94	97.92%	70	130		
☑	Acetone	1	0.99	99.00%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.62272	64.00%	70	130	*	S
✔	4-Methyl-2-pentanone	1	0.64	64.00%	70	130	*	S
✔	2-Propanol-ug/m3	2.48258	1.99098	80.20%	70	130		
✔	2-Propanol	1.01	0.81	80.20%	70	130		
☑	2-Hexanone-ug/m3	4.01506	2.90887	72.45%	70	130		
☑	2-Hexanone	0.98	0.71	72.45%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.62461	89.90%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	6.012	104.17%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	3.38776	97.92%	70	130		
☑	Acetone-ug/m3	2.375	2.35125	99.00%	70	130		
☑	Bromomethane	0.93	0.94	101.08%	70	130		
☑	2-Butanone	0.99	0.89	89.90%	70	130		
☑	Benzene	0.96	0.95	98.96%	70	130		
☑	Benzene-ug/m3	3.0672	3.03525	98.96%	70	130		
✔	Benzyl chloride	0.97	0.84	86.60%	70	130		
✔	Benzyl chloride-ug/m3	5.02169	4.34868	86.60%	70	130		
✔	Bromodichloromethane	0.96	0.93	96.88%	70	130		
✔	Bromodichloromethane-ug/m3	6.43104	6.23007	96.88%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	5.97645	100.00%	70	130		
☑	Bromoform-ug/m3	9.92352	9.92352	100.00%	70	130		
☑	1,4-Dichlorobenzene	0.96	1	104.17%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.65002	101.08%	70	130		
☑	Carbon disulfide	0.97	1	103.09%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.114	103.09%	70	130		
☑	Carbon tetrachloride	0.95	0.95	100.00%	70	130		
☑	Chlorobenzene	0.99	0.99	100.00%	70	130		
☑	Bromoform	0.96	0.96	100.00%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.43408	98.98%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.34688	102.08%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.1236	105.05%	70	130		
✔	1,1-Dichloroethene	0.99	1.04	105.05%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	3.84465	97.94%	70	130		
☑	1,1-Dichloroethane	0.97	0.95	97.94%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.63996	83.52%	70	130		
✔	1,1,2-Trichloroethane	0.98	0.95	96.94%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,2,4-Trimethylbenzene	0.98	0.97	98.98%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	0.97	98.98%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.10985	89.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.89	89.00%	70	130		
☑	1,1,1-Trichloroethane	0.96	0.98	102.08%	70	130		
☑	Chlorodibromomethane	0.98	0.93	94.90%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	7.92267	94.90%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.1832	96.94%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	3.96606	101.03%	70	130		
☑	1,3-Dichlorobenzene	0.97	0.98	101.03%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.36684	109.18%	70	130		
☑	1,3-Butadiene	0.98	1.07	109.18%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.96516	104.12%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	1.01	104.12%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.76	83.52%	70	130		
☑	1,2-Dichloropropane	0.98	0.94	95.92%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	5.89176	101.03%	70	130		
☑	1,2-Dichloroethane	0.97	0.98	101.03%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	5.77152	98.97%	70	130		
☑	1,2-Dichlorobenzene	0.97	0.96	98.97%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	7.22672	97.92%	70	130		
☑	1,2-Dibromoethane	0.96	0.94	97.92%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.76852	98.98%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.34374	95.92%	70	130		
☑	Toluene	0.98	0.97	98.98%	70	130		
☑	Naphthalene-ug/m3	4.82264	4.50812	93.48%	70	130		
☑	o-Xylene	1	1	100.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.342	100.00%	70	130		
☑	p-Ethyltoluene	0.98	0.98	100.00%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	4.81768	100.00%	70	130		
☑	Propylene	1.02	1.07	104.90%	70	130		
☑	Propylene-ug/m3	1.75542	1.84147	104.90%	70	130		
☑	Styrene	0.98	0.97	98.98%	70	130		
☑	Styrene-ug/m3	4.1748	4.1322	98.98%	70	130		
☑	tert-Butyl Methyl Ether	0.99	0.97	97.98%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.49685	97.98%	70	130		
☑	Tetrachloroethene	0.96	1	104.17%	70	130		
☑	Naphthalene	0.92	0.86	93.48%	70	130		
☑	Tetrahydrofuran	1	0.88	88.00%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	6.782	104.17%	70	130		
☑	Toluene-ug/m3	3.69362	3.65593	98.98%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✓	trans-1,2-Dichloroethene	0.98	0.99	101.02%	70	130		
✓	trans-1,2-Dichloroethene-ug/m3	3.8857	3.92535	101.02%	70	130		
✓	trans-1,3-dichloropropene	0.91	0.83	91.21%	70	130		
✓	trans-1,3-Dichloropropene-ug/m3	4.13049	3.76737	91.21%	70	130		
✓	Trichloroethene	0.96	0.94	97.92%	70	130		
✓	Trichloroethene-ug/m3	5.15904	5.05156	97.92%	70	130		
✓	Trichlorofluoromethane	0.96	0.99	103.13%	70	130		
✓	Trichlorofluoromethane-ug/m3	5.39328	5.56182	103.13%	70	130		
✓	Vinyl acetate	0.99	0.85	85.86%	70	130		
✓	Vinyl acetate-ug/m3	3.48579	2.99285	85.86%	70	130		
✓	Vinyl chloride	0.94	1.02	108.51%	70	130		
✓	Chlorobenzene-ug/m3	4.55796	4.55796	100.00%	70	130		
✓	Vinyl chloride-ug/m3	2.40264	2.60712	108.51%	70	130		
✓	cis-1,3-Dichloropropene-ug/m3	4.31205	4.03971	93.68%	70	130		
✓	Tetrahydrofuran-ug/m3	2.949	2.59512	88.00%	70	130		
✓	n-Hexane-ug/m3	3.56025	3.4545	97.03%	70	130		
✓	Chloroform	0.98	1	102.04%	70	130		
✓	Chloroform-ug/m3	4.78534	4.883	102.04%	70	130		
✓	Chloromethane	0.95	1.03	108.42%	70	130		
✓	Chloromethane-ug/m3	1.96175	2.12695	108.42%	70	130		
✓	cis-1,2-Dichloroethene	0.98	0.94	95.92%	70	130		
✓	cis-1,3-dichloropropene	0.95	0.89	93.68%	70	130		
✓	Chloroethane-ug/m3	2.42696	2.40058	98.91%	70	130		
✓	Cyclohexane	0.98	0.98	100.00%	70	130		
✓	Cyclohexane-ug/m3	3.37316	3.37316	100.00%	70	130		
✓	Dichlorodifluoromethane	0.92	0.94	102.17%	70	130		
✓	Dichlorodifluoromethane-ug/m3	4.5494	4.6483	102.17%	70	130		
✓	Chloroethane	0.92	0.91	98.91%	70	130		
✓	Methylene chloride	1	1.08	108.00%	70	130		
✓	n-Hexane	1.01	0.98	97.03%	70	130		
✓	cis-1,2-Dichloroethene-ug/m3	3.8857	3.7271	95.92%	70	130		
✓	Methylene chloride-ug/m3	3.474	3.75192	108.00%	70	130		
✓	Ethanol	0.92	0.97	105.43%	70	130		
✓	m,p-Xylene-ug/m3	16.6733	17.0206	102.08%	70	130		
✓	m,p-Xylene	1.92	1.96	102.08%	70	130		
✓	Hexachlorobutadiene-ug/m3	10.0251	8.7453	87.23%	70	130		
✓	Hexachlorobutadiene	0.94	0.82	87.23%	70	130		
✓	Heptane-ug/m3	4.05801	4.13999	102.02%	70	130		
✓	Heptane	0.99	1.01	102.02%	70	130		
✓	Ethylbenzene	0.98	0.99	101.02%	70	130		
✓	Ethyl benzene-ug/m3	4.25516	4.29858	101.02%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752962	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	Ethyl acetate-ug/m3	3.53094	2.81034	79.59%	70	130		
✔	Ethyl acetate	0.98	0.78	79.59%	70	130		
✔	Ethanol-ug/m3	1.73328	1.82748	105.43%	70	130		

Total Recoveries Out: 2

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	m,p-Xylene-ug/m3	16.6733	16.7601	100.52%	70	130		
✔	Ethyl acetate	0.98	0.77	78.57%	70	130		
✔	Ethyl acetate-ug/m3	3.53094	2.77431	78.57%	70	130		
✔	Ethyl benzene-ug/m3	4.25516	4.21174	98.98%	70	130		
✔	Ethylbenzene	0.98	0.97	98.98%	70	130		
✔	Heptane	0.99	1.97	198.99%	70	130	*	S
✔	Heptane-ug/m3	4.05801	8.07503	198.99%	70	130	*	S
✔	Hexachlorobutadiene	0.94	0.84	89.36%	70	130		
✔	Methylene chloride-ug/m3	3.474	4.20354	121.00%	70	130		
✔	m,p-Xylene	1.92	1.93	100.52%	70	130		
✔	Ethanol-ug/m3	1.73328	1.54488	89.13%	70	130		
✔	Methylene chloride	1	1.21	121.00%	70	130		
✔	Hexachlorobutadiene-ug/m3	10.0251	8.9586	89.36%	70	130		
✔	cis-1,2-Dichloroethene-ug/m3	3.8857	3.68745	94.90%	70	130		
✔	n-Hexane	1.01	3.29	325.74%	70	130	*	S
✔	Chloroethane	0.92	1.04	113.04%	70	130		
✔	Chloroform	0.98	0.98	100.00%	70	130		
✔	Chloroform-ug/m3	4.78534	4.78534	100.00%	70	130		
✔	Chloromethane	0.95	1.1	115.79%	70	130		
✔	Chloroethane-ug/m3	2.42696	2.74352	113.04%	70	130		
✔	cis-1,2-Dichloroethene	0.98	0.93	94.90%	70	130		
✔	Ethanol	0.92	0.82	89.13%	70	130		
✔	cis-1,3-dichloropropene	0.95	0.81	85.26%	70	130		
✔	cis-1,3-Dichloropropene-ug/m3	4.31205	3.67659	85.26%	70	130		
✔	Cyclohexane	0.98	3.15	321.43%	70	130	*	S
✔	Cyclohexane-ug/m3	3.37316	10.8423	321.43%	70	130	*	S
✔	Dichlorodifluoromethane	0.92	1.01	109.78%	70	130		
✔	Dichlorodifluoromethane-ug/m3	4.5494	4.99445	109.78%	70	130		
✔	Chloromethane-ug/m3	1.96175	2.2715	115.79%	70	130		
✔	Trichloroethene-ug/m3	5.15904	4.94408	95.83%	70	130		
✔	Vinyl acetate-ug/m3	3.48579	2.67596	76.77%	70	130		
✔	Toluene-ug/m3	3.69362	9.72402	263.27%	70	130	*	S
✔	trans-1,2-Dichloroethene	0.98	1.02	104.08%	70	130		
✔	trans-1,2-Dichloroethene-ug/m3	3.8857	4.0443	104.08%	70	130		
✔	trans-1,3-dichloropropene	0.91	0.75	82.42%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	Tetrahydrofuran-ug/m3	2.949	4.15809	141.00%	70	130	*	S
✔	Trichloroethene	0.96	0.92	95.83%	70	130		
☑	Tetrahydrofuran	1	1.41	141.00%	70	130	*	S
☑	Trichlorofluoromethane	0.96	1.06	110.42%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	5.95508	110.42%	70	130		
☑	Vinyl acetate	0.99	0.76	76.77%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	7.24115	86.73%	70	130		
☑	Vinyl chloride	0.94	1.07	113.83%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	5.59116	95.88%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	3.40425	82.42%	70	130		
☑	Propylene-ug/m3	1.75542	2.16846	123.53%	70	130		
☑	Naphthalene	0.92	0.7	76.09%	70	130		
☑	Naphthalene-ug/m3	4.82264	3.6694	76.09%	70	130		
☑	o-Xylene	1	0.96	96.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.16832	96.00%	70	130		
☑	p-Ethyltoluene	0.98	0.92	93.88%	70	130		
☑	Toluene	0.98	2.58	263.27%	70	130	*	S
☑	Propylene	1.02	1.26	123.53%	70	130		
☑	n-Hexane-ug/m3	3.56025	11.5973	325.74%	70	130	*	S
✔	Styrene	0.98	0.89	90.82%	70	130		
✔	Styrene-ug/m3	4.1748	3.7914	90.82%	70	130		
✔	tert-Butyl Methyl Ether	0.99	0.91	91.92%	70	130		
✔	tert-Butyl methyl ether-ug/m3	3.56895	3.28055	91.92%	70	130		
✔	Tetrachloroethene	0.96	0.96	100.00%	70	130		
✔	Tetrachloroethene-ug/m3	6.51072	6.51072	100.00%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	4.52272	93.88%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.26891	78.02%	70	130		
✔	1,3-Butadiene-ug/m3	2.16776	2.49956	115.31%	70	130		
✔	1,3-Butadiene	0.98	1.13	115.31%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.62104	96.91%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	0.94	96.91%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	3.92785	86.73%	70	130		
☑	1,2-Dichloropropane	0.98	0.85	86.73%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	3.76371	95.88%	70	130		
☑	1,2-Dichloroethane	0.97	0.93	95.88%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	5.47092	93.81%	70	130		
☑	1,2-Dichlorobenzene	0.97	0.91	93.81%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	6.61168	89.58%	70	130		
☑	1,2-Dibromoethane	0.96	0.86	89.58%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	5.7114	98.96%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	0.91	92.86%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,4-Dichlorobenzene	0.96	0.95	98.96%	70	130		
✔	1,2,4-Trichlorobenzene	0.91	0.71	78.02%	70	130		
✔	1,1-Dichloroethene-ug/m3	3.92535	4.4408	113.13%	70	130		
✔	1,1-Dichloroethene	0.99	1.12	113.13%	70	130		
✔	1,1-Dichloroethane-ug/m3	3.92559	3.76371	95.88%	70	130		
✔	1,1-Dichloroethane	0.97	0.93	95.88%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	5.34688	4.69216	87.76%	70	130		
✔	1,1,2-Trichloroethane	0.98	0.86	87.76%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.81728	104.08%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.02	104.08%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	6.865	5.56065	81.00%	70	130		
✔	1,1,2,2-Tetrachloroethane	1	0.81	81.00%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	5.23776	5.23776	100.00%	70	130		
✔	1,1,1-Trichloroethane	0.96	0.96	100.00%	70	130		
✔	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.47356	92.86%	70	130		
✔	Benzene	0.96	2.04	212.50%	70	130	*	S
✔	Chlorobenzene-ug/m3	4.55796	4.18964	91.92%	70	130		
✔	Chlorobenzene	0.99	0.91	91.92%	70	130		
✔	Carbon tetrachloride-ug/m3	5.97645	5.97645	100.00%	70	130		
✔	Carbon tetrachloride	0.95	0.95	100.00%	70	130		
✔	Carbon disulfide-ug/m3	3.02058	3.30084	109.28%	70	130		
✔	Carbon disulfide	0.97	1.06	109.28%	70	130		
✔	Bromomethane-ug/m3	3.61119	3.96066	109.68%	70	130		
✔	Bromomethane	0.93	1.02	109.68%	70	130		
✔	Bromoform-ug/m3	9.92352	9.09656	91.67%	70	130		
✔	Bromoform	0.96	0.88	91.67%	70	130		
✔	Bromodichloromethane-ug/m3	6.43104	5.82813	90.63%	70	130		
✔	Bromodichloromethane	0.96	0.87	90.63%	70	130		
✔	Benzyl chloride-ug/m3	5.02169	4.03806	80.41%	70	130		
✔	1,3-Dichlorobenzene	0.97	0.93	95.88%	70	130		
✔	2-Propanol	1.01	0.81	80.20%	70	130		
✔	Chlorodibromomethane	0.98	0.85	86.73%	70	130		
✔	1,4-Dioxane	0.96	0.66	68.75%	70	130	*	S
✔	1,4-Dioxane-ug/m3	3.45984	2.37864	68.75%	70	130	*	S
✔	2-Butanone	0.99	0.89	89.90%	70	130		
✔	2-Butanone-ug/m3	2.91951	2.62461	89.90%	70	130		
✔	Benzyl chloride	0.97	0.78	80.41%	70	130		
✔	2-Hexanone-ug/m3	4.01506	2.66305	66.33%	70	130	*	S
✔	Benzene-ug/m3	3.0672	6.5178	212.50%	70	130	*	S
✔	2-Propanol-ug/m3	2.48258	1.99098	80.20%	70	130		
✔	4-Methyl-2-pentanone	1	0.63	63.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110405A **Analyst:** Rachel Hill

RunNo: 39639

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
752986	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39639	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.58174	63.00%	70	130	*	S
☑	Acetone	1	1.1	110.00%	70	130		
☑	Acetone-ug/m3	2.375	2.6125	110.00%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.73492	113.83%	70	130		
☑	2-Hexanone	0.98	0.65	66.33%	70	130	*	S

Total Recoveries Out: 18

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Dichlorodifluoromethane-ug/m3	49.45	42.6754	86.30%	70	130		
☑	Methylene chloride-ug/m3	34.0452	29.0079	85.20%	70	130		
☑	Methylene chloride	9.8	8.35	85.20%	70	130		
☑	m,p-Xylene-ug/m3	173.68	138.336	79.65%	70	130		
☑	m,p-Xylene	20	15.93	79.65%	70	130		
☑	Hexachlorobutadiene-ug/m3	104.517	62.2836	59.59%	70	130	*	S
☑	Hexachlorobutadiene	9.8	5.84	59.59%	70	130	*	S
☑	Heptane-ug/m3	40.99	36.5631	89.20%	70	130		
☑	Heptane	10	8.92	89.20%	70	130		
☑	Ethylbenzene	10	8.36	83.60%	70	130		
☑	Ethyl benzene-ug/m3	43.42	36.2991	83.60%	70	130		
☑	Ethyl acetate-ug/m3	36.03	28.824	80.00%	70	130		
☑	Ethyl acetate	10	8	80.00%	70	130		
☑	Chlorodibromomethane-ug/m3	85.19	70.7929	83.10%	70	130		
☑	Ethanol	12.2	10.03	82.21%	70	130		
☑	o-Xylene	10	8.32	83.20%	70	130		
☑	Dichlorodifluoromethane	10	8.63	86.30%	70	130		
☑	Cyclohexane-ug/m3	35.1084	29.5324	84.12%	70	130		
☑	Cyclohexane	10.2	8.58	84.12%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	48.1134	34.9957	72.74%	70	130		
☑	cis-1,3-dichloropropene	10.6	7.71	72.74%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	39.65	34.6938	87.50%	70	130		
☑	cis-1,2-Dichloroethene	10	8.75	87.50%	70	130		
☑	Chloromethane-ug/m3	21.063	23.0041	109.22%	70	130		
☑	Chloromethane	10.2	11.14	109.22%	70	130		
☑	Chloroform-ug/m3	49.8066	41.9938	84.31%	70	130		
☑	Chloroform	10.2	8.6	84.31%	70	130		
☑	Chloroethane-ug/m3	26.38	19.1255	72.50%	70	130		
☑	Chloroethane	10	7.25	72.50%	70	130		
☑	Ethanol-ug/m3	22.9848	18.8965	82.21%	70	130		
☑	Tetrahydrofuran-ug/m3	29.49	26.7474	90.70%	70	130		
☑	1,1,1-Trichloroethane	10	8.53	85.30%	70	130		
☑	Vinyl chloride-ug/m3	25.56	22.6973	88.80%	70	130		
☑	Vinyl chloride	10	8.88	88.80%	70	130		
☑	Vinyl acetate-ug/m3	35.21	23.2034	65.90%	70	130	*	S
☑	Vinyl acetate	10	6.59	65.90%	70	130	*	S
☑	Trichlorofluoromethane-ug/m3	56.18	50.6744	90.20%	70	130		
☑	Trichlorofluoromethane	10	9.02	90.20%	70	130		
☑	Trichloroethene-ug/m3	73.0864	79.1590	108.31%	70	130		
☑	Trichloroethene	13.6	14.73	108.31%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,3-Dichloropropene-ug/m3	42.6666	32.2269	75.53%	70	130		
☑	trans-1,3-dichloropropene	9.4	7.1	75.53%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	39.65	34.1783	86.20%	70	130		
☑	trans-1,2-Dichloroethene	10	8.62	86.20%	70	130		
☑	n-Hexane-ug/m3	35.955	28.7288	79.90%	70	130		
☑	Styrene-ug/m3	42.6	36.8064	86.40%	70	130		
☑	n-Hexane	10.2	8.15	79.90%	70	130		
☑	o-Xylene-ug/m3	43.42	36.1254	83.20%	70	130		
☑	p-Ethyltoluene	10.6	7.55	71.23%	70	130		
☑	p-Ethyltoluene-ug/m3	52.1096	37.1158	71.23%	70	130		
☑	Propylene	10	10.03	100.30%	70	130		
☑	Toluene-ug/m3	37.69	32.0365	85.00%	70	130		
☑	Styrene	10	8.64	86.40%	70	130		
☑	Toluene	10	8.5	85.00%	70	130		
☑	tert-Butyl Methyl Ether	10	7.38	73.80%	70	130		
☑	tert-Butyl methyl ether-ug/m3	36.05	26.6049	73.80%	70	130		
☑	Tetrachloroethene	10	8.9	89.00%	70	130		
☑	Tetrachloroethene-ug/m3	67.82	60.3598	89.00%	70	130		
☑	Tetrahydrofuran	10	9.07	90.70%	70	130		
☑	Naphthalene-ug/m3	52.42	40.6255	77.50%	70	130		
☑	Propylene-ug/m3	17.21	17.2616	100.30%	70	130		
☑	1,2,4-Trimethylbenzene	10	7.81	78.10%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	60.12	48.096	80.00%	70	130		
☑	1,3-Dichlorobenzene	10	8	80.00%	70	130		
☑	1,3-Butadiene-ug/m3	22.12	19.9744	90.30%	70	130		
☑	1,3-Butadiene	10	9.03	90.30%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	49.16	38.2465	77.80%	70	130		
☑	1,3,5-Trimethylbenzene	10	7.78	77.80%	70	130		
☑	1,2-Dichloropropane-ug/m3	46.21	37.5225	81.20%	70	130		
☑	1,2-Dichloropropane	10	8.12	81.20%	70	130		
☑	1,2-Dichloroethane-ug/m3	40.47	33.1449	81.90%	70	130		
☑	1,2-Dichloroethane	10	8.19	81.90%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	60.12	47.4948	79.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	4.17	1.38	33.09%	70	130	*	S
☑	1,4-Dichlorobenzene	10.2	8.02	78.63%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	49.16	38.394	78.10%	70	130		
☑	1,2-Dichlorobenzene	10	7.9	79.00%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	78.6626	53.8023	68.40%	70	130	*	S
☑	1,2,4-Trichlorobenzene	10.6	7.25	68.40%	70	130	*	S
☑	1,1-Dichloroethene-ug/m3	39.65	33.2267	83.80%	70	130		
☑	1,1-Dichloroethene	10	8.38	83.80%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,1-Dichloroethane-ug/m3	40.47	35.7350	88.30%	70	130		
✔	1,1-Dichloroethane	10	8.83	88.30%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	54.56	42.6659	78.20%	70	130		
✔	1,1,2-Trichloroethane	10	7.82	78.20%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	69.0526	91.94%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	9.01	91.94%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	9.4737	33.09%	70	130	*	S
✔	Chlorodibromomethane	10	8.31	83.10%	70	130		
✔	Naphthalene	10	7.75	77.50%	70	130		
✔	1,2-Dibromoethane-ug/m3	76.88	51.7402	67.30%	70	130	*	S
✔	Carbon disulfide	10	8.44	84.40%	70	130		
✔	Benzyl chloride	5.4	2.35	43.52%	70	130	*	S
✔	Benzyl chloride-ug/m3	27.9558	12.166	43.52%	70	130	*	S
✔	Bromodichloromethane	10.2	8.6	84.31%	70	130		
✔	Bromodichloromethane-ug/m3	68.3298	57.6114	84.31%	70	130		
✔	Bromoform	9.8	7.98	81.43%	70	130		
✔	Bromoform-ug/m3	101.303	82.4893	81.43%	70	130		
✔	Benzene-ug/m3	31.95	25.2725	79.10%	70	130		
✔	Bromomethane-ug/m3	38.83	19.881	51.20%	70	130	*	S
✔	Carbon tetrachloride-ug/m3	62.91	54.4172	86.50%	70	130		
✔	Carbon disulfide-ug/m3	31.14	26.2822	84.40%	70	130		
✔	Carbon tetrachloride	10	8.65	86.50%	70	130		
✔	1,4-Dichlorobenzene-ug/m3	61.3224	48.2162	78.63%	70	130		
✔	Chlorobenzene	10	7.87	78.70%	70	130		
✔	1,2-Dibromoethane	10	6.73	67.30%	70	130	*	S
✔	Chlorobenzene-ug/m3	46.04	36.2335	78.70%	70	130		
✔	Bromomethane	10	5.12	51.20%	70	130	*	S
✔	1,4-Dioxane	10	7.96	79.60%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	54.56	46.5397	85.30%	70	130		
✔	1,4-Dioxane-ug/m3	36.04	28.6878	79.60%	70	130		
✔	2-Butanone	10.2	8.03	78.73%	70	130		
✔	2-Butanone-ug/m3	30.0798	23.6805	78.73%	70	130		
✔	2-Hexanone	10	12.47	124.70%	70	130		
✔	2-Hexanone-ug/m3	40.97	51.0896	124.70%	70	130		
✔	2-Propanol-ug/m3	24.58	23.4985	95.60%	70	130		
✔	4-Methyl-2-pentanone	10.6	9.54	90.00%	70	130		
✔	4-Methyl-2-pentanone-ug/m3	43.4388	39.0949	90.00%	70	130		
✔	Acetone	10	7.75	77.50%	70	130		
✔	Acetone-ug/m3	23.75	18.4063	77.50%	70	130		
✔	Benzene	10	7.91	79.10%	70	130		
✔	2-Propanol	10	9.56	95.60%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753228	TO15 CCV 400cc v	EPA_TO15-UG/M3	CCV	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual

Total Recoveries Out: 14

753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dioxane	0.96	1	104.17%	70	130		
☑	Acetone	1	1.03	103.00%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.8686	70.00%	70	130		
☑	4-Methyl-2-pentanone	1	0.7	70.00%	70	130		
☑	2-Propanol-ug/m3	2.48258	2.11388	85.15%	70	130		
☑	2-Propanol	1.01	0.86	85.15%	70	130		
☑	2-Hexanone-ug/m3	4.01506	3.23663	80.61%	70	130		
☑	2-Hexanone	0.98	0.79	80.61%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.949	101.01%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	6.67332	115.63%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	3.604	104.17%	70	130		
☑	Acetone-ug/m3	2.375	2.44625	103.00%	70	130		
☑	Bromomethane	0.93	1.01	108.60%	70	130		
☑	2-Butanone	0.99	1	101.01%	70	130		
☑	Benzene	0.96	0.97	101.04%	70	130		
☑	Benzene-ug/m3	3.0672	3.09915	101.04%	70	130		
☑	Benzyl chloride	0.97	0.91	93.81%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	4.71107	93.81%	70	130		
☑	Bromodichloromethane	0.96	0.97	101.04%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	6.49803	101.04%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	6.22809	104.21%	70	130		
☑	Bromoform-ug/m3	9.92352	10.5437	106.25%	70	130		
☑	1,4-Dichlorobenzene	0.96	1.11	115.63%	70	130		
☑	Bromomethane-ug/m3	3.61119	3.92183	108.60%	70	130		
☑	Carbon disulfide	0.97	1.03	106.19%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.20742	106.19%	70	130		
☑	Carbon tetrachloride	0.95	0.99	104.21%	70	130		
☑	Chlorobenzene	0.99	1.04	105.05%	70	130		
☑	Bromoform	0.96	1.02	106.25%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.664	102.04%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.56512	106.25%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.32185	110.10%	70	130		
☑	1,1-Dichloroethene	0.99	1.09	110.10%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	3.96606	101.03%	70	130		
☑	1,1-Dichloroethane	0.97	0.98	101.03%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	6.38206	94.51%	70	130		
☑	1,1,2-Trichloroethane	0.98	0.99	101.02%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	1.05	107.14%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1	102.04%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	6.52175	95.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.95	95.00%	70	130		
☑	1,1,1-Trichloroethane	0.96	1.02	106.25%	70	130		
☑	Chlorodibromomethane	0.98	0.98	100.00%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	8.34862	100.00%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	5.40144	101.02%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	4.20888	107.22%	70	130		
☑	1,3-Dichlorobenzene	0.97	1.07	110.31%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.45532	113.27%	70	130		
☑	1,3-Butadiene	0.98	1.11	113.27%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	5.35844	112.37%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	1.09	112.37%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.86	94.51%	70	130		
☑	1,2-Dichloropropane	0.98	0.98	100.00%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	6.43284	110.31%	70	130		
☑	1,2-Dichloroethane	0.97	1.04	107.22%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	6.3126	108.25%	70	130		
☑	1,2-Dichlorobenzene	0.97	1.05	108.25%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	7.53424	102.08%	70	130		
☑	1,2-Dibromoethane	0.96	0.98	102.08%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	5.1618	107.14%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.52858	100.00%	70	130		
☑	Toluene	0.98	1.04	106.12%	70	130		
☑	Naphthalene-ug/m3	4.82264	5.18958	107.61%	70	130		
☑	o-Xylene	1	1.07	107.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.64594	107.00%	70	130		
☑	p-Ethyltoluene	0.98	1.07	109.18%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	5.26012	109.18%	70	130		
☑	Propylene	1.02	1.13	110.78%	70	130		
☑	Propylene-ug/m3	1.75542	1.94473	110.78%	70	130		
☑	Styrene	0.98	1.02	104.08%	70	130		
☑	Styrene-ug/m3	4.1748	4.3452	104.08%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.01	102.02%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.64105	102.02%	70	130		
☑	Tetrachloroethene	0.96	1.08	112.50%	70	130		
☑	Naphthalene	0.92	0.99	107.61%	70	130		
☑	Tetrahydrofuran	1	0.94	94.00%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	7.32456	112.50%	70	130		
☑	Toluene-ug/m3	3.69362	3.91976	106.12%	70	130		
☑	trans-1,2-Dichloroethene	0.98	1.03	105.10%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.08395	105.10%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.86	94.51%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	3.90354	94.51%	70	130		
☑	Trichloroethene	0.96	1	104.17%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.374	104.17%	70	130		
☑	Trichlorofluoromethane	0.96	1.05	109.38%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	5.8989	109.38%	70	130		
☑	Vinyl acetate	0.99	0.86	86.87%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	3.02806	86.87%	70	130		
☑	Vinyl chloride	0.94	1.05	111.70%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	4.78816	105.05%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.6838	111.70%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	4.22127	97.89%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	2.77206	94.00%	70	130		
☑	n-Hexane-ug/m3	3.56025	3.70125	103.96%	70	130		
☑	Chloroform	0.98	1.04	106.12%	70	130		
☑	Chloroform-ug/m3	4.78534	5.07832	106.12%	70	130		
☑	Chloromethane	0.95	1.05	110.53%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.16825	110.53%	70	130		
☑	cis-1,2-Dichloroethene	0.98	0.98	100.00%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.93	97.89%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.55886	105.43%	70	130		
☑	Cyclohexane	0.98	1.03	105.10%	70	130		
☑	Cyclohexane-ug/m3	3.37316	3.54526	105.10%	70	130		
☑	Dichlorodifluoromethane	0.92	1	108.70%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.945	108.70%	70	130		
☑	Chloroethane	0.92	0.97	105.43%	70	130		
☑	Methylene chloride	1	1.12	112.00%	70	130		
☑	n-Hexane	1.01	1.05	103.96%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.8857	100.00%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.89088	112.00%	70	130		
☑	Ethanol	0.92	1.03	111.96%	70	130		
☑	m,p-Xylene-ug/m3	16.6733	18.2364	109.38%	70	130		
☑	m,p-Xylene	1.92	2.1	109.38%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	9.70515	96.81%	70	130		
☑	Hexachlorobutadiene	0.94	0.91	96.81%	70	130		
☑	Heptane-ug/m3	4.05801	4.42692	109.09%	70	130		
☑	Heptane	0.99	1.08	109.09%	70	130		
☑	Ethylbenzene	0.98	1.06	108.16%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.60252	108.16%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	2.95446	83.67%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
753229	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Ethyl acetate	0.98	0.82	83.67%	70	130		
☑	Ethanol-ug/m3	1.73328	1.94052	111.96%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	m,p-Xylene-ug/m3	16.6733	18.7574	112.50%	70	130		
☑	Ethyl acetate	0.98	0.78	79.59%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	2.81034	79.59%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	4.60252	108.16%	70	130		
☑	Ethylbenzene	0.98	1.06	108.16%	70	130		
☑	Heptane	0.99	3.47	350.51%	70	130	*	S
☑	Heptane-ug/m3	4.05801	14.2235	350.51%	70	130	*	S
☑	Hexachlorobutadiene	0.94	0.85	90.43%	70	130		
☑	Methylene chloride-ug/m3	3.474	3.8214	110.00%	70	130		
☑	m,p-Xylene	1.92	2.16	112.50%	70	130		
☑	Ethanol-ug/m3	1.73328	1.6014	92.39%	70	130		
☑	Methylene chloride	1	1.1	110.00%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	9.06525	90.43%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	3.68745	94.90%	70	130		
☑	n-Hexane	1.01	7.4	732.67%	70	130	*	S
☑	Chloroethane	0.92	1	108.70%	70	130		
☑	Chloroform	0.98	1	102.04%	70	130		
☑	Chloroform-ug/m3	4.78534	4.883	102.04%	70	130		
☑	Chloromethane	0.95	1.15	121.05%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.638	108.70%	70	130		
☑	cis-1,2-Dichloroethene	0.98	0.93	94.90%	70	130		
☑	Ethanol	0.92	0.85	92.39%	70	130		
☑	cis-1,3-dichloropropene	0.95	0.79	83.16%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	3.58581	83.16%	70	130		
☑	Cyclohexane	0.98	7.12	726.53%	70	130	*	S
☑	Cyclohexane-ug/m3	3.37316	24.5070	726.53%	70	130	*	S
☑	Dichlorodifluoromethane	0.92	1	108.70%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	4.945	108.70%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.37475	121.05%	70	130		
☑	Trichloroethene-ug/m3	5.15904	5.05156	97.92%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	2.64075	75.76%	70	130		
☑	Toluene-ug/m3	3.69362	10.0255	271.43%	70	130	*	S
☑	trans-1,2-Dichloroethene	0.98	0.98	100.00%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	3.8857	100.00%	70	130		
☑	trans-1,3-dichloropropene	0.91	0.74	81.32%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	6.90066	234.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Trichloroethene	0.96	0.94	97.92%	70	130		
☑	Tetrahydrofuran	1	2.34	234.00%	70	130	*	S
☑	Trichlorofluoromethane	0.96	1.07	111.46%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	6.01126	111.46%	70	130		
☑	Vinyl acetate	0.99	0.75	75.76%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	7.41153	88.78%	70	130		
☑	Vinyl chloride	0.94	1.12	119.15%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	5.59116	95.88%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	3.35886	81.32%	70	130		
☑	Propylene-ug/m3	1.75542	2.16846	123.53%	70	130		
☑	Naphthalene	0.92	0.65	70.65%	70	130		
☑	Naphthalene-ug/m3	4.82264	3.4073	70.65%	70	130		
☑	o-Xylene	1	1.03	103.00%	70	130		
☑	o-Xylene-ug/m3	4.342	4.47226	103.00%	70	130		
☑	p-Ethyltoluene	0.98	0.98	100.00%	70	130		
☑	Toluene	0.98	2.66	271.43%	70	130	*	S
☑	Propylene	1.02	1.26	123.53%	70	130		
☑	n-Hexane-ug/m3	3.56025	26.085	732.67%	70	130	*	S
☑	Styrene	0.98	0.91	92.86%	70	130		
☑	Styrene-ug/m3	4.1748	3.8766	92.86%	70	130		
☑	tert-Butyl Methyl Ether	0.99	0.91	91.92%	70	130		
☑	tert-Butyl methyl ether-ug/m3	3.56895	3.28055	91.92%	70	130		
☑	Tetrachloroethene	0.96	0.99	103.13%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	6.71418	103.13%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	4.81768	100.00%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.04628	74.73%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.61016	120.41%	70	130		
☑	1,3-Butadiene	0.98	1.18	120.41%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	4.76852	100.00%	70	130		
☑	1,3,5-Trimethylbenzene	0.97	0.97	100.00%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	4.02027	88.78%	70	130		
☑	1,2-Dichloropropane	0.98	0.87	88.78%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	3.88512	98.97%	70	130		
☑	1,2-Dichloroethane	0.97	0.96	98.97%	70	130		
☑	1,2-Dichlorobenzene-ug/m3	5.83164	5.47092	93.81%	70	130		
☑	1,2-Dichlorobenzene	0.97	0.91	93.81%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	6.68856	90.63%	70	130		
☑	1,2-Dibromoethane	0.96	0.87	90.63%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	5.65128	97.92%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	0.97	98.98%	70	130		
☑	1,4-Dichlorobenzene	0.96	0.94	97.92%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,2,4-Trichlorobenzene	0.91	0.68	74.73%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.24255	108.08%	70	130		
☑	1,1-Dichloroethene	0.99	1.07	108.08%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	3.68277	93.81%	70	130		
☑	1,1-Dichloroethane	0.97	0.91	93.81%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	4.85584	90.82%	70	130		
☑	1,1,2-Trichloroethane	0.98	0.89	90.82%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	7.43408	98.98%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	0.97	98.98%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	5.6293	82.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	0.82	82.00%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	5.34688	102.08%	70	130		
☑	1,1,1-Trichloroethane	0.96	0.98	102.08%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	4.76852	98.98%	70	130		
☑	Benzene	0.96	2.5	260.42%	70	130	*	S
☑	Chlorobenzene-ug/m3	4.55796	4.32776	94.95%	70	130		
☑	Chlorobenzene	0.99	0.94	94.95%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	5.85063	97.89%	70	130		
☑	Carbon tetrachloride	0.95	0.93	97.89%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.30084	109.28%	70	130		
☑	Carbon disulfide	0.97	1.06	109.28%	70	130		
☑	Bromomethane-ug/m3	3.61119	4.03832	111.83%	70	130		
☑	Bromomethane	0.93	1.04	111.83%	70	130		
☑	Bromoform-ug/m3	9.92352	8.99319	90.63%	70	130		
☑	Bromoform	0.96	0.87	90.63%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	6.0291	93.75%	70	130		
☑	Bromodichloromethane	0.96	0.9	93.75%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	3.93452	78.35%	70	130		
☑	1,3-Dichlorobenzene	0.97	0.93	95.88%	70	130		
☑	2-Propanol	1.01	0.8	79.21%	70	130		
☑	Chlorodibromomethane	0.98	0.87	88.78%	70	130		
☑	1,4-Dioxane	0.96	0.66	68.75%	70	130	*	S
☑	1,4-Dioxane-ug/m3	3.45984	2.37864	68.75%	70	130	*	S
☑	2-Butanone	0.99	0.88	88.89%	70	130		
☑	2-Butanone-ug/m3	2.91951	2.59512	88.89%	70	130		
☑	Benzyl chloride	0.97	0.76	78.35%	70	130		
☑	2-Hexanone-ug/m3	4.01506	2.82693	70.41%	70	130		
☑	Benzene-ug/m3	3.0672	7.9875	260.42%	70	130	*	S
☑	2-Propanol-ug/m3	2.48258	1.9664	79.21%	70	130		
☑	4-Methyl-2-pentanone	1	0.67	67.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110406A **Analyst:** Rachel Hill

RunNo: 39665

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756185	TO15 RLVS 40cc v	EPA_TO15-UG/M3	RLVS	R39665	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	4-Methyl-2-pentanone-ug/m3	4.098	2.74566	67.00%	70	130	*	S
☑	Acetone	1	0.98	98.00%	70	130		
☑	Acetone-ug/m3	2.375	2.3275	98.00%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	2.86272	119.15%	70	130		
☑	2-Hexanone	0.98	0.69	70.41%	70	130		

Total Recoveries Out: 16

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754014	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Ethanol	12.2	13.2	108.20%	70	130		
☑	Vinyl chloride-ug/m3	25.56	25.2533	98.80%	70	130		
☑	Methylene chloride-ug/m3	34.0452	32.9683	96.84%	70	130		
☑	Methylene chloride	9.8	9.49	96.84%	70	130		
☑	m,p-Xylene-ug/m3	173.68	190.353	109.60%	70	130		
☑	m,p-Xylene	20	21.92	109.60%	70	130		
☑	Hexachlorobutadiene-ug/m3	104.517	89.906	86.02%	70	130		
☑	Hexachlorobutadiene	9.8	8.43	86.02%	70	130		
☑	Heptane-ug/m3	40.99	44.5971	108.80%	70	130		
☑	Heptane	10	10.88	108.80%	70	130		
☑	Ethylbenzene	10	11.63	116.30%	70	130		
☑	Ethyl benzene-ug/m3	43.42	50.4975	116.30%	70	130		
☑	Ethyl acetate-ug/m3	36.03	41.6147	115.50%	70	130		
☑	n-Hexane-ug/m3	35.955	34.545	96.08%	70	130		
☑	Ethanol-ug/m3	22.9848	24.8688	108.20%	70	130		
☑	Naphthalene	10	7.91	79.10%	70	130		
☑	Dichlorodifluoromethane-ug/m3	49.45	47.3237	95.70%	70	130		
☑	Dichlorodifluoromethane	10	9.57	95.70%	70	130		
☑	Cyclohexane-ug/m3	35.1084	35.6247	101.47%	70	130		
☑	Cyclohexane	10.2	10.35	101.47%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	48.1134	46.8425	97.36%	70	130		
☑	cis-1,3-dichloropropene	10.6	10.32	97.36%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	39.65	42.5048	107.20%	70	130		
☑	cis-1,2-Dichloroethene	10	10.72	107.20%	70	130		
☑	Chloromethane-ug/m3	21.063	24.3877	115.78%	70	130		
☑	Chloromethane	10.2	11.81	115.78%	70	130		
☑	Chloroform-ug/m3	49.8066	51.4668	103.33%	70	130		
☑	Chloroform	10.2	10.54	103.33%	70	130		
☑	Chloroethane-ug/m3	26.38	19.8641	75.30%	70	130		
☑	Ethyl acetate	10	11.55	115.50%	70	130		
☑	Tetrahydrofuran	10	12.23	122.30%	70	130		
☑	Vinyl chloride	10	9.88	98.80%	70	130		
☑	Vinyl acetate-ug/m3	35.21	35.6325	101.20%	70	130		
☑	Vinyl acetate	10	10.12	101.20%	70	130		
☑	Trichlorofluoromethane-ug/m3	56.18	52.7530	93.90%	70	130		
☑	Trichlorofluoromethane	10	9.39	93.90%	70	130		
☑	Trichloroethene-ug/m3	73.0864	97.9680	134.04%	70	130	*	S
☑	Trichloroethene	13.6	18.23	134.04%	70	130	*	S
☑	trans-1,3-Dichloropropene-ug/m3	42.6666	42.6666	100.00%	70	130		
☑	trans-1,3-dichloropropene	9.4	9.4	100.00%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	39.65	39.1742	98.80%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754014	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	trans-1,2-Dichloroethene	10	9.88	98.80%	70	130		
✔	Toluene-ug/m3	37.69	43.9842	116.70%	70	130		
✔	n-Hexane	10.2	9.8	96.08%	70	130		
✔	Tetrahydrofuran-ug/m3	29.49	36.0663	122.30%	70	130		
✔	Chlorobenzene	10	10.45	104.50%	70	130		
✔	Tetrachloroethene-ug/m3	67.82	72.1605	106.40%	70	130		
✔	Tetrachloroethene	10	10.64	106.40%	70	130		
✔	tert-Butyl methyl ether-ug/m3	36.05	40.9889	113.70%	70	130		
✔	tert-Butyl Methyl Ether	10	11.37	113.70%	70	130		
✔	Styrene-ug/m3	42.6	48.2232	113.20%	70	130		
✔	Styrene	10	11.32	113.20%	70	130		
✔	Propylene-ug/m3	17.21	18.4491	107.20%	70	130		
✔	Propylene	10	10.72	107.20%	70	130		
✔	p-Ethyltoluene-ug/m3	52.1096	48.9634	93.96%	70	130		
✔	p-Ethyltoluene	10.6	9.96	93.96%	70	130		
✔	o-Xylene-ug/m3	43.42	49.4554	113.90%	70	130		
✔	o-Xylene	10	11.39	113.90%	70	130		
✔	Naphthalene-ug/m3	52.42	41.4642	79.10%	70	130		
✔	Toluene	10	11.67	116.70%	70	130		
✔	1,2,4-Trichlorobenzene-ug/m3	78.6626	58.9227	74.91%	70	130		
✔	1,3-Butadiene-ug/m3	22.12	23.4914	106.20%	70	130		
✔	1,3-Butadiene	10	10.62	106.20%	70	130		
✔	1,3,5-Trimethylbenzene-ug/m3	49.16	50.1924	102.10%	70	130		
✔	1,3,5-Trimethylbenzene	10	10.21	102.10%	70	130		
✔	1,2-Dichloropropane-ug/m3	46.21	50.6	109.50%	70	130		
✔	1,2-Dichloropropane	10	10.95	109.50%	70	130		
✔	1,2-Dichloroethane-ug/m3	40.47	44.1528	109.10%	70	130		
✔	1,2-Dichloroethane	10	10.91	109.10%	70	130		
✔	1,2-Dichlorobenzene-ug/m3	60.12	58.3164	97.00%	70	130		
✔	1,2-Dichlorobenzene	10	9.7	97.00%	70	130		
✔	1,2-Dibromoethane-ug/m3	76.88	67.3469	87.60%	70	130		
✔	1,2-Dibromoethane	10	8.76	87.60%	70	130		
✔	Chloroethane	10	7.53	75.30%	70	130		
✔	1,2,4-Trimethylbenzene	10	9.74	97.40%	70	130		
✔	1,4-Dichlorobenzene	10.2	9.7	95.10%	70	130		
✔	1,2,4-Trichlorobenzene	10.6	7.94	74.91%	70	130		
✔	1,1-Dichloroethene-ug/m3	39.65	34.6541	87.40%	70	130		
✔	1,1-Dichloroethene	10	8.74	87.40%	70	130		
✔	1,1-Dichloroethane-ug/m3	40.47	43.6671	107.90%	70	130		
✔	1,1-Dichloroethane	10	10.79	107.90%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	54.56	55.2147	101.20%	70	130		
✔	1,1,2-Trichloroethane	10	10.12	101.20%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754014	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	74.8773	99.69%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	9.77	99.69%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	12.2884	42.93%	70	130	*	S
✔	1,1,2,2-Tetrachloroethane	4.17	1.79	42.93%	70	130	*	S
✔	1,1,1-Trichloroethane-ug/m3	54.56	56.4150	103.40%	70	130		
✔	1,1,1-Trichloroethane	10	10.34	103.40%	70	130		
✔	1,2,4-Trimethylbenzene-ug/m3	49.16	47.8818	97.40%	70	130		
✔	Acetone-ug/m3	23.75	26.885	113.20%	70	130		
✔	Chlorodibromomethane-ug/m3	85.19	90.0458	105.70%	70	130		
✔	Carbon tetrachloride-ug/m3	62.91	66.8104	106.20%	70	130		
✔	Carbon tetrachloride	10	10.62	106.20%	70	130		
✔	Carbon disulfide-ug/m3	31.14	27.7769	89.20%	70	130		
✔	Carbon disulfide	10	8.92	89.20%	70	130		
✔	Bromomethane-ug/m3	38.83	21.3177	54.90%	70	130	*	S
✔	Bromomethane	10	5.49	54.90%	70	130	*	S
✔	Bromoform-ug/m3	101.303	105.437	104.08%	70	130		
✔	Bromoform	9.8	10.2	104.08%	70	130		
✔	Bromodichloromethane-ug/m3	68.3298	73.5550	107.65%	70	130		
✔	Bromodichloromethane	10.2	10.98	107.65%	70	130		
✔	Benzyl chloride-ug/m3	27.9558	16.7217	59.81%	70	130	*	S
✔	Benzyl chloride	5.4	3.23	59.81%	70	130	*	S
✔	1,3-Dichlorobenzene	10	9.8	98.00%	70	130		
✔	2-Hexanone-ug/m3	40.97	63.3396	154.60%	70	130	*	S
✔	Chlorodibromomethane	10	10.57	105.70%	70	130		
✔	1,4-Dichlorobenzene-ug/m3	61.3224	58.3164	95.10%	70	130		
✔	1,4-Dioxane	10	10.18	101.80%	70	130		
✔	1,4-Dioxane-ug/m3	36.04	36.6887	101.80%	70	130		
✔	2-Butanone	10.2	11.88	116.47%	70	130		
✔	Benzene-ug/m3	31.95	36.3591	113.80%	70	130		
✔	2-Hexanone	10	15.46	154.60%	70	130	*	S
✔	Benzene	10	11.38	113.80%	70	130		
✔	2-Propanol	10	12.79	127.90%	70	130		
✔	2-Propanol-ug/m3	24.58	31.4378	127.90%	70	130		
✔	4-Methyl-2-pentanone	10.6	13.64	128.68%	70	130		
✔	4-Methyl-2-pentanone-ug/m3	43.4388	55.8967	128.68%	70	130		
✔	Acetone	10	11.32	113.20%	70	130		
✔	1,3-Dichlorobenzene-ug/m3	60.12	58.9176	98.00%	70	130		
✔	2-Butanone-ug/m3	30.0798	35.0341	116.47%	70	130		
✔	Chlorobenzene-ug/m3	46.04	48.1118	104.50%	70	130		

Total Recoveries Out: 10

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754015	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Hexachlorobutadiene	0.94	1.4	148.94%	70	130	*	S
☑	Ethanol-ug/m3	1.73328	2.95788	170.65%	70	130	*	S
☑	Ethyl acetate	0.98	1.39	141.84%	70	130	*	S
☑	Ethyl acetate-ug/m3	3.53094	5.00817	141.84%	70	130	*	S
☑	Ethyl benzene-ug/m3	4.25516	6.55642	154.08%	70	130	*	S
☑	Ethylbenzene	0.98	1.51	154.08%	70	130	*	S
☑	Chlorodibromomethane-ug/m3	8.34862	11.1599	133.67%	70	130	*	S
☑	Heptane-ug/m3	4.05801	5.61563	138.38%	70	130	*	S
☑	Dichlorodifluoromethane	0.92	1.15	125.00%	70	130		
☑	Hexachlorobutadiene-ug/m3	10.0251	14.931	148.94%	70	130	*	S
☑	m,p-Xylene	1.92	3.08	160.42%	70	130	*	S
☑	m,p-Xylene-ug/m3	16.6733	26.7467	160.42%	70	130	*	S
☑	Methylene chloride	1	1.33	133.00%	70	130	*	S
☑	Methylene chloride-ug/m3	3.474	4.62042	133.00%	70	130	*	S
☑	Heptane	0.99	1.37	138.38%	70	130	*	S
☑	Dichlorodifluoromethane-ug/m3	4.5494	5.68675	125.00%	70	130		
☑	Naphthalene	0.92	1.08	117.39%	70	130		
☑	Cyclohexane-ug/m3	3.37316	4.40576	130.61%	70	130	*	S
☑	Cyclohexane	0.98	1.28	130.61%	70	130	*	S
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	5.80992	134.74%	70	130	*	S
☑	cis-1,3-dichloropropene	0.95	1.28	134.74%	70	130	*	S
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	5.03555	129.59%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1.27	129.59%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.5193	128.42%	70	130		
☑	Chloromethane	0.95	1.22	128.42%	70	130		
☑	Chloroform-ug/m3	4.78534	6.54322	136.73%	70	130	*	S
☑	Chloroform	0.98	1.34	136.73%	70	130	*	S
☑	Chloroethane-ug/m3	2.42696	2.95456	121.74%	70	130		
☑	Chloroethane	0.92	1.12	121.74%	70	130		
☑	Ethanol	0.92	1.57	170.65%	70	130	*	S
☑	Tetrachloroethene-ug/m3	6.51072	9.35916	143.75%	70	130	*	S
☑	Vinyl chloride	0.94	1.21	128.72%	70	130		
☑	1,1,1-Trichloroethane	0.96	1.3	135.42%	70	130	*	S
☑	Vinyl acetate	0.99	1.39	140.40%	70	130	*	S
☑	Trichlorofluoromethane-ug/m3	5.39328	6.96632	129.17%	70	130		
☑	Trichlorofluoromethane	0.96	1.24	129.17%	70	130		
☑	Trichloroethene-ug/m3	5.15904	7.5236	145.83%	70	130	*	S
☑	Trichloroethene	0.96	1.4	145.83%	70	130	*	S
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	5.49219	132.97%	70	130	*	S
☑	trans-1,3-dichloropropene	0.91	1.21	132.97%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754015	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	trans-1,2-Dichloroethene-ug/m3	3.8857	4.95625	127.55%	70	130		
✔	trans-1,2-Dichloroethene	0.98	1.25	127.55%	70	130		
✔	Toluene-ug/m3	3.69362	5.42736	146.94%	70	130	*	S
✔	Toluene	0.98	1.44	146.94%	70	130	*	S
✔	n-Hexane	1.01	1.3	128.71%	70	130		
✔	Propylene-ug/m3	1.75542	2.16846	123.53%	70	130		
✔	Vinyl acetate-ug/m3	3.48579	4.89419	140.40%	70	130	*	S
✔	Naphthalene-ug/m3	4.82264	5.66136	117.39%	70	130		
✔	o-Xylene	1	1.5	150.00%	70	130	*	S
✔	o-Xylene-ug/m3	4.342	6.513	150.00%	70	130	*	S
✔	p-Ethyltoluene	0.98	1.48	151.02%	70	130	*	S
✔	Tetrahydrofuran-ug/m3	2.949	4.09911	139.00%	70	130	*	S
✔	Propylene	1.02	1.26	123.53%	70	130		
✔	Tetrahydrofuran	1	1.39	139.00%	70	130	*	S
✔	Styrene	0.98	1.4	142.86%	70	130	*	S
✔	Styrene-ug/m3	4.1748	5.964	142.86%	70	130	*	S
✔	tert-Butyl Methyl Ether	0.99	1.53	154.55%	70	130	*	S
✔	tert-Butyl methyl ether-ug/m3	3.56895	5.51565	154.55%	70	130	*	S
✔	Tetrachloroethene	0.96	1.38	143.75%	70	130	*	S
✔	n-Hexane-ug/m3	3.56025	4.5825	128.71%	70	130		
✔	p-Ethyltoluene-ug/m3	4.81768	7.27568	151.02%	70	130	*	S
✔	1,2,4-Trimethylbenzene	0.98	1.47	150.00%	70	130	*	S
✔	1,3-Dichlorobenzene-ug/m3	5.83164	8.59716	147.42%	70	130	*	S
✔	1,3-Dichlorobenzene	0.97	1.43	147.42%	70	130	*	S
✔	1,3-Butadiene-ug/m3	2.16776	2.89772	133.67%	70	130	*	S
✔	1,3-Butadiene	0.98	1.31	133.67%	70	130	*	S
✔	1,3,5-Trimethylbenzene-ug/m3	4.76852	7.57064	158.76%	70	130	*	S
✔	1,3,5-Trimethylbenzene	0.97	1.54	158.76%	70	130	*	S
✔	1,2-Dichloropropane-ug/m3	4.52858	6.33077	139.80%	70	130	*	S
✔	1,2-Dichloropropane	0.98	1.37	139.80%	70	130	*	S
✔	1,2-Dichloroethane-ug/m3	3.92559	5.86815	149.48%	70	130	*	S
✔	1,2-Dichloroethane	0.97	1.45	149.48%	70	130	*	S
✔	1,2-Dichlorobenzene-ug/m3	5.83164	8.7174	149.48%	70	130	*	S
✔	1,2-Dichlorobenzene	0.97	1.45	149.48%	70	130	*	S
✔	1,2-Dibromoethane-ug/m3	7.38048	10.2250	138.54%	70	130	*	S
✔	1,4-Dichlorobenzene	0.96	1.38	143.75%	70	130	*	S
✔	1,1-Dichloroethane	0.97	1.3	134.02%	70	130	*	S
✔	Vinyl chloride-ug/m3	2.40264	3.09276	128.72%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	5.23776	7.0928	135.42%	70	130	*	S
✔	1,1,2,2-Tetrachloroethane-ug/m3	6.865	8.58125	125.00%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754015	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.25	127.55%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	9.58	127.55%	70	130		
☑	1,2-Dibromoethane	0.96	1.33	138.54%	70	130	*	S
☑	1,1,2-Trichloroethane-ug/m3	5.34688	7.42016	138.78%	70	130	*	S
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	7.22652	150.00%	70	130	*	S
☑	1,1-Dichloroethane-ug/m3	3.92559	5.2611	134.02%	70	130	*	S
☑	1,1-Dichloroethene	0.99	1.27	128.28%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	5.03555	128.28%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.91	100.00%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	6.75311	100.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	1.25	125.00%	70	130		
☑	1,1,2-Trichloroethane	0.98	1.36	138.78%	70	130	*	S
☑	Bromomethane	0.93	1.12	120.43%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	6.6758	146.46%	70	130	*	S
☑	Chlorobenzene	0.99	1.45	146.46%	70	130	*	S
☑	Carbon tetrachloride-ug/m3	5.97645	8.11539	135.79%	70	130	*	S
☑	Carbon tetrachloride	0.95	1.29	135.79%	70	130	*	S
☑	Carbon disulfide-ug/m3	3.02058	3.83022	126.80%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	8.29656	143.75%	70	130	*	S
☑	Bromomethane-ug/m3	3.61119	4.34896	120.43%	70	130		
☑	Chlorodibromomethane	0.98	1.31	133.67%	70	130	*	S
☑	Bromoform-ug/m3	9.92352	14.0583	141.67%	70	130	*	S
☑	Bromoform	0.96	1.36	141.67%	70	130	*	S
☑	Bromodichloromethane-ug/m3	6.43104	8.77569	136.46%	70	130	*	S
☑	Bromodichloromethane	0.96	1.31	136.46%	70	130	*	S
☑	Benzyl chloride-ug/m3	5.02169	6.57479	130.93%	70	130	*	S
☑	Benzyl chloride	0.97	1.27	130.93%	70	130	*	S
☑	2-Hexanone	0.98	1.17	119.39%	70	130		
☑	Carbon disulfide	0.97	1.23	126.80%	70	130		
☑	Benzene-ug/m3	3.0672	4.44105	144.79%	70	130	*	S
☑	1,4-Dioxane-ug/m3	3.45984	5.15372	148.96%	70	130	*	S
☑	2-Butanone-ug/m3	2.91951	4.4235	151.52%	70	130	*	S
☑	1,4-Dioxane	0.96	1.43	148.96%	70	130	*	S
☑	2-Hexanone-ug/m3	4.01506	4.79349	119.39%	70	130		
☑	2-Propanol	1.01	1.37	135.64%	70	130	*	S
☑	2-Propanol-ug/m3	2.48258	3.36746	135.64%	70	130	*	S
☑	4-Methyl-2-pentanone	1	1.2	120.00%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	4.098	4.9176	120.00%	70	130		
☑	Acetone	1	1.55	155.00%	70	130	*	S
☑	Acetone-ug/m3	2.375	3.68125	155.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754015	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Benzene	0.96	1.39	144.79%	70	130	*	S
☑	2-Butanone	0.99	1.5	151.52%	70	130	*	S

Total Recoveries Out: 86

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754170	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	4-Methyl-2-pentanone	1	1	100.00%	70	130		
☑	Benzene-ug/m3	3.0672	4.31325	140.63%	70	130	*	S
☑	Benzene	0.96	1.35	140.63%	70	130	*	S
☑	Acetone-ug/m3	2.375	3.34875	141.00%	70	130	*	S
☑	Acetone	1	1.41	141.00%	70	130	*	S
☑	4-Methyl-2-pentanone-ug/m3	4.098	4.098	100.00%	70	130		
☑	2-Propanol-ug/m3	2.48258	2.77754	111.88%	70	130		
☑	2-Propanol	1.01	1.13	111.88%	70	130		
☑	2-Hexanone-ug/m3	4.01506	3.6873	91.84%	70	130		
☑	2-Hexanone	0.98	0.9	91.84%	70	130		
☑	2-Butanone-ug/m3	2.91951	3.50931	120.20%	70	130		
☑	2-Butanone	0.99	1.19	120.20%	70	130		
☑	1,4-Dioxane	0.96	0.98	102.08%	70	130		
☑	1,4-Dioxane-ug/m3	3.45984	3.53192	102.08%	70	130		
☑	Bromomethane-ug/m3	3.61119	4.38779	121.51%	70	130		
☑	1,2,4-Trimethylbenzene-ug/m3	4.81768	6.43996	133.67%	70	130	*	S
☑	Chlorobenzene-ug/m3	4.55796	6.26144	137.37%	70	130	*	S
☑	1,4-Dichlorobenzene-ug/m3	5.77152	7.45488	129.17%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	7.29756	122.11%	70	130		
☑	Carbon tetrachloride	0.95	1.16	122.11%	70	130		
☑	Chlorobenzene	0.99	1.36	137.37%	70	130	*	S
☑	Carbon disulfide	0.97	1.15	118.56%	70	130		
☑	Benzyl chloride	0.97	1.1	113.40%	70	130		
☑	Bromomethane	0.93	1.13	121.51%	70	130		
☑	Bromoform-ug/m3	9.92352	11.8876	119.79%	70	130		
☑	Bromoform	0.96	1.15	119.79%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	7.83783	121.88%	70	130		
☑	Bromodichloromethane	0.96	1.17	121.88%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	5.6947	113.40%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.5811	118.56%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	1.19	119.00%	70	130		
☑	Naphthalene	0.92	0.68	73.91%	70	130		
☑	Chlorodibromomethane	0.98	1.16	118.37%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	8.16935	119.00%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.17	119.39%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754170	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	8.96688	119.39%	70	130		
☑	1,1,2-Trichloroethane	0.98	1.22	124.49%	70	130		
☑	1,1,2-Trichloroethane-ug/m3	5.34688	6.65632	124.49%	70	130		
☑	1,1-Dichloroethane	0.97	1.17	120.62%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	4.73499	120.62%	70	130		
☑	1,1-Dichloroethene	0.99	1.19	120.20%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.71835	120.20%	70	130		
☑	1,2,4-Trichlorobenzene	0.91	0.7	76.92%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.1947	76.92%	70	130		
☑	1,2-Dibromoethane-ug/m3	7.38048	9.14872	123.96%	70	130		
☑	1,2-Dichloropropane-ug/m3	4.52858	5.77625	127.55%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	6.49264	123.96%	70	130		
☑	1,3-Dichlorobenzene-ug/m3	5.83164	7.515	128.87%	70	130		
☑	1,3-Dichlorobenzene	0.97	1.25	128.87%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	2.94196	135.71%	70	130	*	S
☑	1,3-Butadiene	0.98	1.33	135.71%	70	130	*	S
☑	1,2,4-Trimethylbenzene	0.98	1.31	133.67%	70	130	*	S
☑	1,3,5-Trimethylbenzene	0.97	1.42	146.39%	70	130	*	S
☑	1,2-Dibromoethane	0.96	1.19	123.96%	70	130		
☑	1,2-Dichloropropane	0.98	1.25	127.55%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	5.22063	132.99%	70	130	*	S
☑	1,2-Dichloroethane	0.97	1.29	132.99%	70	130	*	S
☑	1,2-Dichlorobenzene-ug/m3	5.83164	7.33464	125.77%	70	130		
☑	1,2-Dichlorobenzene	0.97	1.22	125.77%	70	130		
☑	1,4-Dichlorobenzene	0.96	1.24	129.17%	70	130		
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	6.98072	146.39%	70	130	*	S
☑	Toluene	0.98	1.44	146.94%	70	130	*	S
☑	o-Xylene	1	1.37	137.00%	70	130	*	S
☑	o-Xylene-ug/m3	4.342	5.94854	137.00%	70	130	*	S
☑	p-Ethyltoluene	0.98	1.33	135.71%	70	130	*	S
☑	p-Ethyltoluene-ug/m3	4.81768	6.53828	135.71%	70	130	*	S
☑	Propylene	1.02	1.24	121.57%	70	130		
☑	Propylene-ug/m3	1.75542	2.13404	121.57%	70	130		
☑	Styrene	0.98	1.24	126.53%	70	130		
☑	Styrene-ug/m3	4.1748	5.2824	126.53%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.34	135.35%	70	130	*	S
☑	tert-Butyl methyl ether-ug/m3	3.56895	4.8307	135.35%	70	130	*	S
☑	Tetrachloroethene	0.96	1.28	133.33%	70	130	*	S
☑	Tetrachloroethene-ug/m3	6.51072	8.68096	133.33%	70	130	*	S
☑	n-Hexane	1.01	1.34	132.67%	70	130	*	S
☑	Tetrahydrofuran-ug/m3	2.949	3.65676	124.00%	70	130		
☑	Vinyl chloride-ug/m3	2.40264	3.195	132.98%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754170	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Toluene-ug/m3	3.69362	5.42736	146.94%	70	130	*	S
☑	trans-1,2-Dichloroethene	0.98	1.16	118.37%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.5994	118.37%	70	130		
☑	trans-1,3-dichloropropene	0.91	1.03	113.19%	70	130		
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	4.67517	113.19%	70	130		
☑	Trichloroethene	0.96	1.22	127.08%	70	130		
☑	Trichloroethene-ug/m3	5.15904	6.55628	127.08%	70	130		
☑	Trichlorofluoromethane	0.96	1.16	120.83%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	6.51688	120.83%	70	130		
☑	Vinyl acetate	0.99	1.17	118.18%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	4.11957	118.18%	70	130		
☑	Vinyl chloride	0.94	1.25	132.98%	70	130	*	S
☑	1,1,1-Trichloroethane	0.96	1.19	123.96%	70	130		
☑	Tetrahydrofuran	1	1.24	124.00%	70	130		
☑	Ethanol-ug/m3	1.73328	2.12892	122.83%	70	130		
☑	Chloroethane	0.92	1.1	119.57%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.9018	119.57%	70	130		
☑	Chloroform	0.98	1.25	127.55%	70	130		
☑	Chloroform-ug/m3	4.78534	6.10375	127.55%	70	130		
☑	Chloromethane	0.95	1.23	129.47%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.53995	129.47%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1.18	120.41%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	4.6787	120.41%	70	130		
☑	cis-1,3-dichloropropene	0.95	1.11	116.84%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	5.03829	116.84%	70	130		
☑	Cyclohexane	0.98	1.35	137.76%	70	130	*	S
☑	Cyclohexane-ug/m3	3.37316	4.6467	137.76%	70	130	*	S
☑	Dichlorodifluoromethane	0.92	1.12	121.74%	70	130		
☑	Naphthalene-ug/m3	4.82264	3.56456	73.91%	70	130		
☑	Heptane-ug/m3	4.05801	5.61563	138.38%	70	130	*	S
☑	Chlorodibromomethane-ug/m3	8.34862	9.88204	118.37%	70	130		
☑	Methylene chloride-ug/m3	3.474	4.55094	131.00%	70	130	*	S
☑	Methylene chloride	1	1.31	131.00%	70	130	*	S
☑	m,p-Xylene-ug/m3	16.6733	24.7494	148.44%	70	130	*	S
☑	m,p-Xylene	1.92	2.85	148.44%	70	130	*	S
☑	Dichlorodifluoromethane-ug/m3	4.5494	5.5384	121.74%	70	130		
☑	Hexachlorobutadiene	0.94	1.21	128.72%	70	130		
☑	Ethanol	0.92	1.13	122.83%	70	130		
☑	Heptane	0.99	1.37	138.38%	70	130	*	S
☑	Ethylbenzene	0.98	1.39	141.84%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110407A **Analyst:** Rachel Hill

RunNo: 39697

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754170	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39697	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Ethyl benzene-ug/m3	4.25516	6.03538	141.84%	70	130	*	S
☑	Ethyl acetate-ug/m3	3.53094	4.07139	115.31%	70	130		
☑	Ethyl acetate	0.98	1.13	115.31%	70	130		
☑	n-Hexane-ug/m3	3.56025	4.7235	132.67%	70	130	*	S
☑	Hexachlorobutadiene-ug/m3	10.0251	12.9047	128.72%	70	130		

Total Recoveries Out: 38

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754174	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✓	Dichlorodifluoromethane-ug/m3	49.45	44.505	90.00%	70	130		
✓	Methylene chloride-ug/m3	34.0452	33.2809	97.76%	70	130		
✓	Methylene chloride	9.8	9.58	97.76%	70	130		
✓	m,p-Xylene-ug/m3	173.68	196.866	113.35%	70	130		
✓	m,p-Xylene	20	22.67	113.35%	70	130		
✓	Hexachlorobutadiene-ug/m3	104.517	92.2523	88.27%	70	130		
✓	Hexachlorobutadiene	9.8	8.65	88.27%	70	130		
✓	Heptane-ug/m3	40.99	45.6629	111.40%	70	130		
✓	Heptane	10	11.14	111.40%	70	130		
✓	Ethylbenzene	10	11.6	116.00%	70	130		
✓	Ethyl benzene-ug/m3	43.42	50.3672	116.00%	70	130		
✓	Ethyl acetate-ug/m3	36.03	41.3985	114.90%	70	130		
✓	Ethyl acetate	10	11.49	114.90%	70	130		
✓	Chlorodibromomethane-ug/m3	85.19	85.19	100.00%	70	130		
✓	Ethanol	12.2	13.11	107.46%	70	130		
✓	o-Xylene	10	11.16	111.60%	70	130		
✓	Dichlorodifluoromethane	10	9	90.00%	70	130		
✓	Cyclohexane-ug/m3	35.1084	36.9671	105.29%	70	130		
✓	Cyclohexane	10.2	10.74	105.29%	70	130		
✓	cis-1,3-Dichloropropene-ug/m3	48.1134	44.573	92.64%	70	130		
✓	cis-1,3-dichloropropene	10.6	9.82	92.64%	70	130		
✓	cis-1,2-Dichloroethene-ug/m3	39.65	40.9585	103.30%	70	130		
✓	cis-1,2-Dichloroethene	10	10.33	103.30%	70	130		
✓	Chloromethane-ug/m3	21.063	24.9659	118.53%	70	130		
✓	Chloromethane	10.2	12.09	118.53%	70	130		
✓	Chloroform-ug/m3	49.8066	52.2481	104.90%	70	130		
✓	Chloroform	10.2	10.7	104.90%	70	130		
✓	Chloroethane-ug/m3	26.38	19.9169	75.50%	70	130		
✓	Chloroethane	10	7.55	75.50%	70	130		
✓	Ethanol-ug/m3	22.9848	24.6992	107.46%	70	130		
✓	**Tetrahydrofuran-ug/m3**	29.49	38.4255	**130.30%**	70	130	*	S
✓	1,1,1-Trichloroethane	10	10.5	105.00%	70	130		
✓	Vinyl chloride-ug/m3	25.56	25.5089	99.80%	70	130		
✓	Vinyl chloride	10	9.98	99.80%	70	130		
✓	Vinyl acetate-ug/m3	35.21	35.034	99.50%	70	130		
✓	Vinyl acetate	10	9.95	99.50%	70	130		
✓	Trichlorofluoromethane-ug/m3	56.18	53.371	95.00%	70	130		
✓	Trichlorofluoromethane	10	9.5	95.00%	70	130		
✓	**Trichloroethene-ug/m3**	73.0864	95.4422	**130.59%**	70	130	*	S
✓	**Trichloroethene**	13.6	17.76	**130.59%**	70	130	*	S
✓	trans-1,3-Dichloropropene-ug/m3	42.6666	40.5787	95.11%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754174	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	trans-1,3-dichloropropene	9.4	8.94	95.11%	70	130		
✔	trans-1,2-Dichloroethene-ug/m3	39.65	38.857	98.00%	70	130		
✔	trans-1,2-Dichloroethene	10	9.8	98.00%	70	130		
✔	n-Hexane-ug/m3	35.955	34.827	96.86%	70	130		
✔	Styrene-ug/m3	42.6	46.3062	108.70%	70	130		
✔	n-Hexane	10.2	9.88	96.86%	70	130		
✔	o-Xylene-ug/m3	43.42	48.4567	111.60%	70	130		
✔	p-Ethyltoluene	10.6	9.72	91.70%	70	130		
✔	p-Ethyltoluene-ug/m3	52.1096	47.7835	91.70%	70	130		
✔	Propylene	10	9.96	99.60%	70	130		
✔	Toluene-ug/m3	37.69	42.9289	113.90%	70	130		
✔	Styrene	10	10.87	108.70%	70	130		
✔	Toluene	10	11.39	113.90%	70	130		
✔	tert-Butyl Methyl Ether	10	11.38	113.80%	70	130		
✔	tert-Butyl methyl ether-ug/m3	36.05	41.0249	113.80%	70	130		
✔	Tetrachloroethene	10	10.38	103.80%	70	130		
✔	Tetrachloroethene-ug/m3	67.82	70.3972	103.80%	70	130		
✔	Tetrahydrofuran	10	13.03	130.30%	70	130	*	S
✔	Naphthalene-ug/m3	52.42	37.1134	70.80%	70	130		
✔	Propylene-ug/m3	17.21	17.1412	99.60%	70	130		
✔	1,2,4-Trimethylbenzene	10	9.49	94.90%	70	130		
✔	1,3-Dichlorobenzene-ug/m3	60.12	58.1360	96.70%	70	130		
✔	1,3-Dichlorobenzene	10	9.67	96.70%	70	130		
✔	1,3-Butadiene-ug/m3	22.12	23.6684	107.00%	70	130		
✔	1,3-Butadiene	10	10.7	107.00%	70	130		
✔	1,3,5-Trimethylbenzene-ug/m3	49.16	49.7991	101.30%	70	130		
✔	1,3,5-Trimethylbenzene	10	10.13	101.30%	70	130		
✔	1,2-Dichloropropane-ug/m3	46.21	49.0750	106.20%	70	130		
✔	1,2-Dichloropropane	10	10.62	106.20%	70	130		
✔	1,2-Dichloroethane-ug/m3	40.47	45.5692	112.60%	70	130		
✔	1,2-Dichloroethane	10	11.26	112.60%	70	130		
✔	1,2-Dichlorobenzene-ug/m3	60.12	58.0158	96.50%	70	130		
✔	1,1,2,2-Tetrachloroethane	4.17	2.02	48.44%	70	130	*	S
✔	1,4-Dichlorobenzene	10.2	9.78	95.88%	70	130		
✔	1,2,4-Trimethylbenzene-ug/m3	49.16	46.6528	94.90%	70	130		
✔	1,2-Dichlorobenzene	10	9.65	96.50%	70	130		
✔	1,2,4-Trichlorobenzene-ug/m3	78.6626	54.767	69.62%	70	130	*	S
✔	1,2,4-Trichlorobenzene	10.6	7.38	69.62%	70	130	*	S
✔	1,1-Dichloroethene-ug/m3	39.65	34.6938	87.50%	70	130		
✔	1,1-Dichloroethene	10	8.75	87.50%	70	130		
✔	1,1-Dichloroethane-ug/m3	40.47	42.2912	104.50%	70	130		
✔	1,1-Dichloroethane	10	10.45	104.50%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754174	TO15 CCV 40cc vo	EPA_TO15-ug/m3	CCV	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,1,2-Trichloroethane-ug/m3	54.56	53.2506	97.60%	70	130		
☑	1,1,2-Trichloroethane	10	9.76	97.60%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	75.1072	75.8736	101.02%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	9.8	9.9	101.02%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	28.6271	13.8673	48.44%	70	130	*	S
☑	Chlorodibromomethane	10	10	100.00%	70	130		
☑	Naphthalene	10	7.08	70.80%	70	130		
☑	1,2-Dibromoethane-ug/m3	76.88	64.733	84.20%	70	130		
☑	Carbon disulfide	10	8.83	88.30%	70	130		
☑	Benzyl chloride	5.4	3.25	60.19%	70	130	*	S
☑	Benzyl chloride-ug/m3	27.9558	16.8253	60.19%	70	130	*	S
☑	Bromodichloromethane	10.2	10.55	103.43%	70	130		
☑	Bromodichloromethane-ug/m3	68.3298	70.6745	103.43%	70	130		
☑	Bromoform	9.8	9.91	101.12%	70	130		
☑	Bromoform-ug/m3	101.303	102.44	101.12%	70	130		
☑	Benzene-ug/m3	31.95	35.9118	112.40%	70	130		
☑	Bromomethane-ug/m3	38.83	21.2012	54.60%	70	130	*	S
☑	Carbon tetrachloride-ug/m3	62.91	65.2377	103.70%	70	130		
☑	Carbon disulfide-ug/m3	31.14	27.4966	88.30%	70	130		
☑	Carbon tetrachloride	10	10.37	103.70%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	61.3224	58.7974	95.88%	70	130		
☑	Chlorobenzene	10	10.33	103.30%	70	130		
☑	1,2-Dibromoethane	10	8.42	84.20%	70	130		
☑	Chlorobenzene-ug/m3	46.04	47.5593	103.30%	70	130		
☑	Bromomethane	10	5.46	54.60%	70	130	*	S
☑	1,4-Dioxane	10	9.95	99.50%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	54.56	57.288	105.00%	70	130		
☑	1,4-Dioxane-ug/m3	36.04	35.8598	99.50%	70	130		
☑	2-Butanone	10.2	12.13	118.92%	70	130		
☑	2-Butanone-ug/m3	30.0798	35.7714	118.92%	70	130		
☑	2-Hexanone	10	15.59	155.90%	70	130	*	S
☑	2-Hexanone-ug/m3	40.97	63.8722	155.90%	70	130	*	S
☑	2-Propanol-ug/m3	24.58	31.954	130.00%	70	130		
☑	4-Methyl-2-pentanone	10.6	13.72	129.43%	70	130		
☑	4-Methyl-2-pentanone-ug/m3	43.4388	56.2246	129.43%	70	130		
☑	Acetone	10	11.49	114.90%	70	130		
☑	Acetone-ug/m3	23.75	27.2888	114.90%	70	130		
☑	Benzene	10	11.24	112.40%	70	130		
☑	2-Propanol	10	13	130.00%	70	130		

Total Recoveries Out: 14

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754175	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	1,4-Dioxane	0.96	1.35	140.63%	70	130	*	S
☑	Acetone	1	1.49	149.00%	70	130	*	S
☑	4-Methyl-2-pentanone-ug/m3	4.098	4.46682	109.00%	70	130		
☑	4-Methyl-2-pentanone	1	1.09	109.00%	70	130		
☑	2-Propanol-ug/m3	2.48258	3.09708	124.75%	70	130		
☑	2-Propanol	1.01	1.26	124.75%	70	130		
☑	2-Hexanone-ug/m3	4.01506	4.71155	117.35%	70	130		
☑	2-Hexanone	0.98	1.15	117.35%	70	130		
☑	2-Butanone-ug/m3	2.91951	4.21707	144.44%	70	130	*	S
☑	1,4-Dichlorobenzene-ug/m3	5.77152	7.87572	136.46%	70	130	*	S
☑	1,4-Dioxane-ug/m3	3.45984	4.8654	140.63%	70	130	*	S
☑	Acetone-ug/m3	2.375	3.53875	149.00%	70	130	*	S
☑	Bromomethane	0.93	1.09	117.20%	70	130		
☑	2-Butanone	0.99	1.43	144.44%	70	130	*	S
☑	Benzene	0.96	1.32	137.50%	70	130	*	S
☑	Benzene-ug/m3	3.0672	4.2174	137.50%	70	130	*	S
☑	Benzyl chloride	0.97	1.12	115.46%	70	130		
☑	Benzyl chloride-ug/m3	5.02169	5.79824	115.46%	70	130		
☑	Bromodichloromethane	0.96	1.16	120.83%	70	130		
☑	Bromodichloromethane-ug/m3	6.43104	7.77084	120.83%	70	130		
☑	Carbon tetrachloride-ug/m3	5.97645	7.42338	124.21%	70	130		
☑	Bromoform-ug/m3	9.92352	12.4044	125.00%	70	130		
☑	1,4-Dichlorobenzene	0.96	1.31	136.46%	70	130	*	S
☑	Bromomethane-ug/m3	3.61119	4.23247	117.20%	70	130		
☑	Carbon disulfide	0.97	1.12	115.46%	70	130		
☑	Carbon disulfide-ug/m3	3.02058	3.48768	115.46%	70	130		
☑	Carbon tetrachloride	0.95	1.18	124.21%	70	130		
☑	Chlorobenzene	0.99	1.37	138.38%	70	130	*	S
☑	Bromoform	0.96	1.2	125.00%	70	130		
☑	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	8.89024	118.37%	70	130		
☑	1,1,1-Trichloroethane-ug/m3	5.23776	6.60176	126.04%	70	130		
☑	1,1-Dichloroethene-ug/m3	3.92535	4.6787	119.19%	70	130		
☑	1,1-Dichloroethene	0.99	1.18	119.19%	70	130		
☑	1,1-Dichloroethane-ug/m3	3.92559	4.81593	122.68%	70	130		
☑	1,1-Dichloroethane	0.97	1.19	122.68%	70	130		
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.9368	87.91%	70	130		
☑	1,1,2-Trichloroethane	0.98	1.21	123.47%	70	130		
☑	1,2,4-Trimethylbenzene	0.98	1.38	140.82%	70	130	*	S
☑	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.16	118.37%	70	130		
☑	1,1,2,2-Tetrachloroethane-ug/m3	6.865	8.3753	122.00%	70	130		
☑	1,1,2,2-Tetrachloroethane	1	1.22	122.00%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754175	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,1,1-Trichloroethane	0.96	1.21	126.04%	70	130		
✔	Chlorodibromomethane	0.98	1.17	119.39%	70	130		
✔	Chlorodibromomethane-ug/m3	8.34862	9.96723	119.39%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	5.34688	6.60176	123.47%	70	130		
✔	1,2-Dichloroethane-ug/m3	3.92559	5.2611	134.02%	70	130	*	S
✔	1,3-Dichlorobenzene	0.97	1.37	141.24%	70	130	*	S
✔	1,3-Butadiene-ug/m3	2.16776	2.85348	131.63%	70	130	*	S
✔	1,3-Butadiene	0.98	1.29	131.63%	70	130	*	S
✔	1,3,5-Trimethylbenzene-ug/m3	4.76852	7.17736	150.52%	70	130	*	S
✔	1,3,5-Trimethylbenzene	0.97	1.46	150.52%	70	130	*	S
✔	1,2,4-Trichlorobenzene	0.91	0.8	87.91%	70	130		
✔	1,2-Dichloropropane	0.98	1.23	125.51%	70	130		
✔	1,3-Dichlorobenzene-ug/m3	5.83164	8.23644	141.24%	70	130	*	S
✔	1,2-Dichloroethane	0.97	1.3	134.02%	70	130	*	S
✔	1,2-Dichlorobenzene-ug/m3	5.83164	8.23644	141.24%	70	130	*	S
✔	1,2-Dichlorobenzene	0.97	1.37	141.24%	70	130	*	S
✔	1,2-Dibromoethane-ug/m3	7.38048	9.30248	126.04%	70	130		
✔	1,2-Dibromoethane	0.96	1.21	126.04%	70	130		
✔	1,2,4-Trimethylbenzene-ug/m3	4.81768	6.78408	140.82%	70	130	*	S
✔	1,2-Dichloropropane-ug/m3	4.52858	5.68383	125.51%	70	130		
✔	Toluene	0.98	1.35	137.76%	70	130	*	S
✔	Naphthalene-ug/m3	4.82264	4.82264	100.00%	70	130		
✔	o-Xylene	1	1.39	139.00%	70	130	*	S
✔	o-Xylene-ug/m3	4.342	6.03538	139.00%	70	130	*	S
✔	p-Ethyltoluene	0.98	1.41	143.88%	70	130	*	S
✔	p-Ethyltoluene-ug/m3	4.81768	6.93156	143.88%	70	130	*	S
✔	Propylene	1.02	1.2	117.65%	70	130		
✔	Propylene-ug/m3	1.75542	2.0652	117.65%	70	130		
✔	Styrene	0.98	1.26	128.57%	70	130		
✔	Styrene-ug/m3	4.1748	5.3676	128.57%	70	130		
✔	tert-Butyl Methyl Ether	0.99	1.44	145.45%	70	130	*	S
✔	tert-Butyl methyl ether-ug/m3	3.56895	5.1912	145.45%	70	130	*	S
✔	Tetrachloroethene	0.96	1.27	132.29%	70	130	*	S
✔	Naphthalene	0.92	0.92	100.00%	70	130		
✔	Tetrahydrofuran	1	1.31	131.00%	70	130	*	S
✔	Tetrachloroethene-ug/m3	6.51072	8.61314	132.29%	70	130	*	S
✔	Toluene-ug/m3	3.69362	5.08815	137.76%	70	130	*	S
✔	trans-1,2-Dichloroethene	0.98	1.15	117.35%	70	130		
✔	trans-1,2-Dichloroethene-ug/m3	3.8857	4.55975	117.35%	70	130		
✔	trans-1,3-dichloropropene	0.91	1.07	117.58%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754175	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	trans-1,3-Dichloropropene-ug/m3	4.13049	4.85673	117.58%	70	130		
☑	Trichloroethene	0.96	1.19	123.96%	70	130		
☑	Trichloroethene-ug/m3	5.15904	6.39506	123.96%	70	130		
☑	Trichlorofluoromethane	0.96	1.15	119.79%	70	130		
☑	Trichlorofluoromethane-ug/m3	5.39328	6.4607	119.79%	70	130		
☑	Vinyl acetate	0.99	1.23	124.24%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	4.33083	124.24%	70	130		
☑	Vinyl chloride	0.94	1.22	129.79%	70	130		
☑	Chlorobenzene-ug/m3	4.55796	6.30748	138.38%	70	130	*	S
☑	Vinyl chloride-ug/m3	2.40264	3.11832	129.79%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	5.12907	118.95%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	3.86319	131.00%	70	130	*	S
☑	n-Hexane-ug/m3	3.56025	4.40625	123.76%	70	130		
☑	Chloroform	0.98	1.26	128.57%	70	130		
☑	Chloroform-ug/m3	4.78534	6.15258	128.57%	70	130		
☑	Chloromethane	0.95	1.19	125.26%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.45735	125.26%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1.17	119.39%	70	130		
☑	cis-1,3-dichloropropene	0.95	1.13	118.95%	70	130		
☑	Chloroethane-ug/m3	2.42696	2.84904	117.39%	70	130		
☑	Cyclohexane	0.98	1.2	122.45%	70	130		
☑	Cyclohexane-ug/m3	3.37316	4.1304	122.45%	70	130		
☑	Dichlorodifluoromethane	0.92	1.07	116.30%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	5.29115	116.30%	70	130		
☑	Chloroethane	0.92	1.08	117.39%	70	130		
☑	Methylene chloride	1	1.26	126.00%	70	130		
☑	n-Hexane	1.01	1.25	123.76%	70	130		
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	4.63905	119.39%	70	130		
☑	Methylene chloride-ug/m3	3.474	4.37724	126.00%	70	130		
☑	Ethanol	0.92	1.38	150.00%	70	130	*	S
☑	m,p-Xylene-ug/m3	16.6733	24.8362	148.96%	70	130	*	S
☑	m,p-Xylene	1.92	2.86	148.96%	70	130	*	S
☑	Hexachlorobutadiene-ug/m3	10.0251	13.6512	136.17%	70	130	*	S
☑	Hexachlorobutadiene	0.94	1.28	136.17%	70	130	*	S
☑	Heptane-ug/m3	4.05801	5.12375	126.26%	70	130		
☑	Heptane	0.99	1.25	126.26%	70	130		
☑	Ethylbenzene	0.98	1.42	144.90%	70	130	*	S
☑	Ethyl benzene-ug/m3	4.25516	6.16564	144.90%	70	130	*	S
☑	Ethyl acetate-ug/m3	3.53094	4.64787	131.63%	70	130	*	S
☑	Ethyl acetate	0.98	1.29	131.63%	70	130	*	S
☑	Ethanol-ug/m3	1.73328	2.59992	150.00%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
754175	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
	Total Recoveries Out: 46							

756184	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	m,p-Xylene-ug/m3	16.6733	25.3573	152.08%	70	130	*	S
☑	Ethyl acetate	0.98	1.23	125.51%	70	130		
☑	Ethyl acetate-ug/m3	3.53094	4.43169	125.51%	70	130		
☑	Ethyl benzene-ug/m3	4.25516	6.20906	145.92%	70	130	*	S
☑	Ethylbenzene	0.98	1.43	145.92%	70	130	*	S
☑	Heptane	0.99	1.7	171.72%	70	130	*	S
☑	Heptane-ug/m3	4.05801	6.9683	171.72%	70	130	*	S
☑	Hexachlorobutadiene	0.94	1.28	136.17%	70	130	*	S
☑	Methylene chloride-ug/m3	3.474	4.96782	143.00%	70	130	*	S
☑	m,p-Xylene	1.92	2.92	152.08%	70	130	*	S
☑	Ethanol-ug/m3	1.73328	2.46804	142.39%	70	130	*	S
☑	Methylene chloride	1	1.43	143.00%	70	130	*	S
☑	Hexachlorobutadiene-ug/m3	10.0251	13.6512	136.17%	70	130	*	S
☑	cis-1,2-Dichloroethene-ug/m3	3.8857	4.95625	127.55%	70	130		
☑	n-Hexane	1.01	1.74	172.28%	70	130	*	S
☑	Chloroethane	0.92	1.14	123.91%	70	130		
☑	Chloroform	0.98	1.33	135.71%	70	130	*	S
☑	Chloroform-ug/m3	4.78534	6.49439	135.71%	70	130	*	S
☑	Chloromethane	0.95	1.25	131.58%	70	130	*	S
☑	Chloroethane-ug/m3	2.42696	3.00732	123.91%	70	130		
☑	cis-1,2-Dichloroethene	0.98	1.25	127.55%	70	130		
☑	Ethanol	0.92	1.31	142.39%	70	130	*	S
☑	cis-1,3-dichloropropene	0.95	1.14	120.00%	70	130		
☑	cis-1,3-Dichloropropene-ug/m3	4.31205	5.17446	120.00%	70	130		
☑	Cyclohexane	0.98	1.78	181.63%	70	130	*	S
☑	Cyclohexane-ug/m3	3.37316	6.12676	181.63%	70	130	*	S
☑	Dichlorodifluoromethane	0.92	1.14	123.91%	70	130		
☑	Dichlorodifluoromethane-ug/m3	4.5494	5.6373	123.91%	70	130		
☑	Chloromethane-ug/m3	1.96175	2.58125	131.58%	70	130	*	S
☑	Trichloroethene-ug/m3	5.15904	6.55628	127.08%	70	130		
☑	Vinyl acetate-ug/m3	3.48579	4.2252	121.21%	70	130		
☑	Toluene-ug/m3	3.69362	7.61338	206.12%	70	130	*	S
☑	trans-1,2-Dichloroethene	0.98	1.2	122.45%	70	130		
☑	trans-1,2-Dichloroethene-ug/m3	3.8857	4.758	122.45%	70	130		
☑	trans-1,3-dichloropropene	0.91	1.04	114.29%	70	130		
☑	Tetrahydrofuran-ug/m3	2.949	4.24656	144.00%	70	130	*	S
☑	Trichloroethene	0.96	1.22	127.08%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756184	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Tetrahydrofuran	1	1.44	144.00%	70	130	*	S
✔	Trichlorofluoromethane	0.96	1.21	126.04%	70	130		
✔	Trichlorofluoromethane-ug/m3	5.39328	6.79778	126.04%	70	130		
☑	Vinyl acetate	0.99	1.2	121.21%	70	130		
☑	Chlorodibromomethane-ug/m3	8.34862	9.96723	119.39%	70	130		
✔	Vinyl chloride	0.94	1.34	142.55%	70	130	*	S
✔	1,3-Dichlorobenzene-ug/m3	5.83164	7.63524	130.93%	70	130	*	S
✔	trans-1,3-Dichloropropene-ug/m3	4.13049	4.72056	114.29%	70	130		
☑	Propylene-ug/m3	1.75542	2.18567	124.51%	70	130		
☑	Naphthalene	0.92	0.7	76.09%	70	130		
☑	Naphthalene-ug/m3	4.82264	3.6694	76.09%	70	130		
☑	o-Xylene	1	1.38	138.00%	70	130	*	S
☑	o-Xylene-ug/m3	4.342	5.99196	138.00%	70	130	*	S
☑	p-Ethyltoluene	0.98	1.36	138.78%	70	130	*	S
☑	Toluene	0.98	2.02	206.12%	70	130	*	S
☑	Propylene	1.02	1.27	124.51%	70	130		
☑	n-Hexane-ug/m3	3.56025	6.1335	172.28%	70	130	*	S
☑	Styrene	0.98	1.23	125.51%	70	130		
☑	Styrene-ug/m3	4.1748	5.2398	125.51%	70	130		
☑	tert-Butyl Methyl Ether	0.99	1.4	141.41%	70	130	*	S
☑	tert-Butyl methyl ether-ug/m3	3.56895	5.047	141.41%	70	130	*	S
☑	Tetrachloroethene	0.96	1.22	127.08%	70	130		
☑	Tetrachloroethene-ug/m3	6.51072	8.27404	127.08%	70	130		
☑	p-Ethyltoluene-ug/m3	4.81768	6.68576	138.78%	70	130	*	S
☑	1,2,4-Trichlorobenzene-ug/m3	6.75311	5.56575	82.42%	70	130		
☑	1,3-Butadiene-ug/m3	2.16776	3.22952	148.98%	70	130	*	S
☑	1,3-Butadiene	0.98	1.46	148.98%	70	130	*	S
☑	1,3,5-Trimethylbenzene-ug/m3	4.76852	6.98072	146.39%	70	130	*	S
☑	1,3,5-Trimethylbenzene	0.97	1.42	146.39%	70	130	*	S
☑	1,2-Dichloropropane-ug/m3	4.52858	5.86867	129.59%	70	130		
☑	1,2-Dichloropropane	0.98	1.27	129.59%	70	130		
☑	1,2-Dichloroethane-ug/m3	3.92559	5.54439	141.24%	70	130	*	S
✔	1,2-Dichloroethane	0.97	1.37	141.24%	70	130	*	S
☑	1,2-Dichlorobenzene-ug/m3	5.83164	7.63524	130.93%	70	130	*	S
☑	1,2-Dichlorobenzene	0.97	1.27	130.93%	70	130	*	S
☑	1,2-Dibromoethane-ug/m3	7.38048	9.30248	126.04%	70	130		
✔	1,2-Dibromoethane	0.96	1.21	126.04%	70	130		
☑	1,4-Dichlorobenzene-ug/m3	5.77152	7.57512	131.25%	70	130	*	S
☑	1,2,4-Trimethylbenzene	0.98	1.33	135.71%	70	130	*	S
☑	1,4-Dichlorobenzene	0.96	1.26	131.25%	70	130	*	S

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756184	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	1,2,4-Trichlorobenzene	0.91	0.75	82.42%	70	130		
✔	1,1-Dichloroethene-ug/m3	3.92535	4.87695	124.24%	70	130		
✔	1,1-Dichloroethene	0.99	1.23	124.24%	70	130		
✔	1,1-Dichloroethane-ug/m3	3.92559	5.05875	128.87%	70	130		
✔	1,1-Dichloroethane	0.97	1.25	128.87%	70	130		
✔	1,1,2-Trichloroethane-ug/m3	5.34688	6.82	127.55%	70	130		
✔	1,1,2-Trichloroethane	0.98	1.25	127.55%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane-ug/m3	7.51072	9.50336	126.53%	70	130		
✔	1,1,2-Trichloro-1,2,2-trifluoroethane	0.98	1.24	126.53%	70	130		
✔	1,1,2,2-Tetrachloroethane-ug/m3	6.865	8.44395	123.00%	70	130		
✔	1,1,2,2-Tetrachloroethane	1	1.23	123.00%	70	130		
✔	1,1,1-Trichloroethane-ug/m3	5.23776	6.87456	131.25%	70	130	*	S
✔	1,1,1-Trichloroethane	0.96	1.26	131.25%	70	130	*	S
✔	1,2,4-Trimethylbenzene-ug/m3	4.81768	6.53828	135.71%	70	130	*	S
✔	Benzene	0.96	1.65	171.88%	70	130	*	S
✔	Chlorobenzene-ug/m3	4.55796	6.30748	138.38%	70	130	*	S
✔	Chlorobenzene	0.99	1.37	138.38%	70	130	*	S
✔	Carbon tetrachloride-ug/m3	5.97645	7.67502	128.42%	70	130		
✔	Carbon tetrachloride	0.95	1.22	128.42%	70	130		
✔	Carbon disulfide-ug/m3	3.02058	3.64338	120.62%	70	130		
✔	Carbon disulfide	0.97	1.17	120.62%	70	130		
✔	Bromomethane-ug/m3	3.61119	4.46545	123.66%	70	130		
✔	Bromomethane	0.93	1.15	123.66%	70	130		
✔	Bromoform-ug/m3	9.92352	11.6808	117.71%	70	130		
✔	Bromoform	0.96	1.13	117.71%	70	130		
✔	Bromodichloromethane-ug/m3	6.43104	7.97181	123.96%	70	130		
✔	Bromodichloromethane	0.96	1.19	123.96%	70	130		
✔	Benzyl chloride-ug/m3	5.02169	5.64293	112.37%	70	130		
✔	1,3-Dichlorobenzene	0.97	1.27	130.93%	70	130	*	S
✔	2-Propanol	1.01	1.23	121.78%	70	130		
✔	Chlorodibromomethane	0.98	1.17	119.39%	70	130		
✔	1,4-Dioxane	0.96	1	104.17%	70	130		
✔	1,4-Dioxane-ug/m3	3.45984	3.604	104.17%	70	130		
✔	2-Butanone	0.99	1.38	139.39%	70	130	*	S
✔	2-Butanone-ug/m3	2.91951	4.06962	139.39%	70	130	*	S
✔	Benzyl chloride	0.97	1.09	112.37%	70	130		
✔	2-Hexanone-ug/m3	4.01506	3.93312	97.96%	70	130		
✔	Benzene-ug/m3	3.0672	5.27175	171.88%	70	130	*	S
✔	2-Propanol-ug/m3	2.48258	3.02334	121.78%	70	130		
✔	4-Methyl-2-pentanone	1	1.1	110.00%	70	130		

Spikes and Surrogates Report

RunID: VOA1_110408A **Analyst:** Rachel Hill

RunNo: 39704

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756184	TO15 RLVS 20cc v	EPA_TO15-ug/m3	RLVS	R39704	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
✔	4-Methyl-2-pentanone-ug/m3	4.098	4.5078	110.00%	70	130		
✔	Acetone	1	1.56	156.00%	70	130	*	S
✔	Acetone-ug/m3	2.375	3.705	156.00%	70	130	*	S
✔	Vinyl chloride-ug/m3	2.40264	3.42504	142.55%	70	130	*	S
✔	2-Hexanone	0.98	0.96	97.96%	70	130		

Total Recoveries Out: 56

Method Blank Contamination Report

Blank ID: MBLK
SeqNo: 752963
Analysis Date: 4/5/2011 12:54:00 PM
Analyst: Rachel Hill

Batch ID: R39639
TestCode: EPA_TO15-UG/M3
RunID: VOA1_110405A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	752960	BFB_TUNE	TUNE	VOA1_110405A	R39639	4/5/2011 10:02:00 AM	1
TO15 CCV 400cc v	752961	EPA_TO15-UG/M3	CCV	VOA1_110405A	R39639	4/5/2011 11:27:00 AM	1
TO15 RLVS 40cc v	752962	EPA_TO15-UG/M3	RLVS	VOA1_110405A	R39639	4/5/2011 12:10:00 PM	1
1103389-010B	752964	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 3:06:00 PM	80000
1103389-010BDUP	752965	EPA_TO15-UG/M3	DUP	VOA1_110405A	R39639	4/5/2011 3:48:00 PM	80000
1103389-021B	752966	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 4:30:00 PM	8000
1103389-034B	752967	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 5:13:00 PM	40
1103389-035B	752968	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 5:54:00 PM	40
1103389-036B	752969	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 6:36:00 PM	40
1103389-037B	752970	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 7:19:00 PM	40
1103389-022B	752971	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 8:04:00 PM	20000
1103389-023B	752972	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 8:49:00 PM	40000
1103389-024B	752973	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 9:34:00 PM	40000
1103389-025B	752974	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 10:19:00 PM	40000
1103389-026B	752975	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/5/2011 11:04:00 PM	80000
1103389-027B	752976	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 12:33:00 AM	40000
1103389-028B	752977	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 1:18:00 AM	20000
1103389-038A	752978	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 2:04:00 AM	24
1103609-001A	752981	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 4:18:00 AM	8000
1103609-006A	752982	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 5:46:00 AM	8000
1103609-007A	752983	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 6:31:00 AM	8000
1103609-008A	752984	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 7:15:00 AM	8000
1103609-009A	752985	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 7:59:00 AM	8000
TO15 RLVS 40cc v	752986	EPA_TO15-UG/M3	RLVS	VOA1_110405A	R39639	4/6/2011 9:31:00 AM	1
1103389-029B	752988	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 2:49:00 AM	8000
1103389-030B	752989	EPA_TO15-UG/M3	SAMP	VOA1_110405A	R39639	4/6/2011 3:33:00 AM	8000

Method Blank Contamination Report

Blank ID: MBLK
SeqNo: 753230
Analysis Date: 4/6/2011 1:20:00 PM
Analyst: Rachel Hill

Batch ID: R39665
TestCode: EPA_TO15-UG/M3
RunID: VOA1_110406A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	753227	BFB_TUNE	TUNE	VOA1_110406A	R39665	4/6/2011 10:17:00 AM	1
TO15 CCV 400cc v	753228	EPA_TO15-UG/M3	CCV	VOA1_110406A	R39665	4/6/2011 11:09:00 AM	1
TO15 RLVS 40cc v	753229	EPA_TO15-UG/M3	RLVS	VOA1_110406A	R39665	4/6/2011 11:53:00 AM	1
1103389-018B	753231	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 4:27:00 PM	8000
1103389-019B	753232	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 5:50:00 PM	8000
1103389-019BDUP	753233	EPA_TO15-UG/M3	DUP	VOA1_110406A	R39665	4/6/2011 6:33:00 PM	8000
1103389-020B	753234	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 7:15:00 PM	8000
1103389-021B	753235	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 7:58:00 PM	160000
1103389-022B	753236	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 9:23:00 PM	40000
1103389-023B	753237	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 10:06:00 PM	80000
1103389-025B	753238	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 10:48:00 PM	160000
1103389-026B	753239	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/6/2011 11:31:00 PM	160000
1103389-027B	753240	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 12:13:00 AM	80000
1103609-017A	753241	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 12:56:00 AM	4000
1103609-008A	753242	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 1:39:00 AM	80000
1103609-009A	753243	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 2:21:00 AM	80000
1103609-005A	753244	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 5:12:00 AM	8000
1103609-010A	753245	EPA_TO15-UG/M3	SAMP	VOA1_110406A	R39665	4/7/2011 9:32:00 AM	8000
TO15 RLVS 40cc v	756185	EPA_TO15-UG/M3	RLVS	VOA1_110406A	R39665	4/7/2011 10:15:00 AM	1

Method Blank Contamination Report

Blank ID: MBLK 040711 **Batch ID:** R39697

SeqNo: 754016 **TestCode:** EPA_TO15-ug/m3

Analysis Date: 4/7/2011 9:50:00 PM **RunID:** VOA1_110407A

Analyst: Rachel Hill **InstrumentID:** VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	754004	BFB_TUNE	TUNE	VOA1_110407A	R39697	4/7/2011 11:47:00 AM	1
TO15 L2 40cc voa	754005	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 2:20:00 PM	1
TO15 L3 20cc voa	754006	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 3:01:00 PM	1
TO15 L4 40cc voa	754007	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 3:42:00 PM	1
TO15 L5 48cc voa	754008	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 4:23:00 PM	1
TO15 L6 60cc voa	754009	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 5:04:00 PM	1
TO15 L7 80cc voa	754010	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 5:45:00 PM	1
BFB 50cc voa020211c	754013	BFB_TUNE	TUNE	VOA1_110407A	R39697	4/7/2011 7:47:00 PM	1
TO15 CCV 40cc vo	754014	EPA_TO15-ug/m3	CCV	VOA1_110407A	R39697	4/7/2011 8:27:00 PM	1
TO15 RLVS 20cc v	754015	EPA_TO15-ug/m3	RLVS	VOA1_110407A	R39697	4/7/2011 9:07:00 PM	1
1103609-011A	754017	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/7/2011 10:30:00 PM	8000
1103609-011ADUP	754018	EPA_TO15-ug/m3	DUP	VOA1_110407A	R39697	4/7/2011 11:10:00 PM	8000
1103609-012A	754019	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/7/2011 11:49:00 PM	8000
1103609-013A	754020	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 12:29:00 AM	8000
1103609-014A	754021	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 1:09:00 AM	8000
1103609-016A	754022	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 2:30:00 AM	8000
1103609-018A	754023	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 3:10:00 AM	8000
1103609-019A	754024	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 3:50:00 AM	8000
1103609-020A	754025	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 4:30:00 AM	8000
1103609-021A	754026	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 5:11:00 AM	8000
1103609-022A	754027	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 5:51:00 AM	8000
1103609-025A	754028	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 9:28:00 AM	8000
1103609-026A	754029	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 10:08:00 AM	8000
1103609-027A	754030	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 10:49:00 AM	8000
TO15 L8 120cc vo	754031	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 6:26:00 PM	1
TO15 L9 200cc vo	754032	EPA_TO15	ICAL	VOA1_110407A	R39697	4/7/2011 7:07:00 PM	1
1103609-023A	754110	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 1:36:00 PM	4000
1103609-002A	754111	EPA_TO15-ug/m3	SAMP	VOA1_110407A	R39697	4/8/2011 2:17:00 PM	40
TO15 RLVS 20cc v	754170	EPA_TO15-ug/m3	RLVS	VOA1_110407A	R39697	4/8/2011 3:39:00 PM	1

Method Blank Contamination Report

Blank ID: MBLK 040811
SeqNo: 754176
Analysis Date: 4/8/2011 6:24:00 PM
Analyst: Rachel Hill

Batch ID: R39704
TestCode: EPA_TO15-ug/m3
RunID: VOA1_110408A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
BFB 50cc voa020211c	754173	BFB_TUNE	TUNE	VOA1_110408A	R39704	4/8/2011 4:19:00 PM	1
TO15 CCV 40cc vo	754174	EPA_TO15-ug/m3	CCV	VOA1_110408A	R39704	4/8/2011 5:00:00 PM	1
TO15 RLVS 20cc v	754175	EPA_TO15-ug/m3	RLVS	VOA1_110408A	R39704	4/8/2011 5:41:00 PM	1
1103609-005A	754177	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 7:05:00 PM	40000
1103609-005ADUP	754178	EPA_TO15-ug/m3	DUP	VOA1_110408A	R39704	4/8/2011 7:46:00 PM	40000
1103609-003A	754179	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 8:27:00 PM	160000
1103609-004A	754180	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 9:08:00 PM	8000
1103609-010A	754181	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 9:50:00 PM	80000
1103609-013A	754182	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 10:31:00 PM	40000
1103609-014A	754183	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 11:12:00 PM	160000
1103609-026A	754185	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/9/2011 1:16:00 AM	160000
1103609-027A	754186	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/9/2011 1:58:00 AM	160000
1103609-028A	754187	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/9/2011 2:40:00 AM	40
1103609-024A	754188	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/9/2011 4:03:00 AM	40
1103609-015A	754200	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/8/2011 11:54:00 PM	4000
1103609-025A	756183	EPA_TO15-ug/m3	SAMP	VOA1_110408A	R39704	4/9/2011 11:34:00 AM	80000
TO15 RLVS 20cc v	756184	EPA_TO15-ug/m3	RLVS	VOA1_110408A	R39704	4/9/2011 12:15:00 PM	1

Injection Log

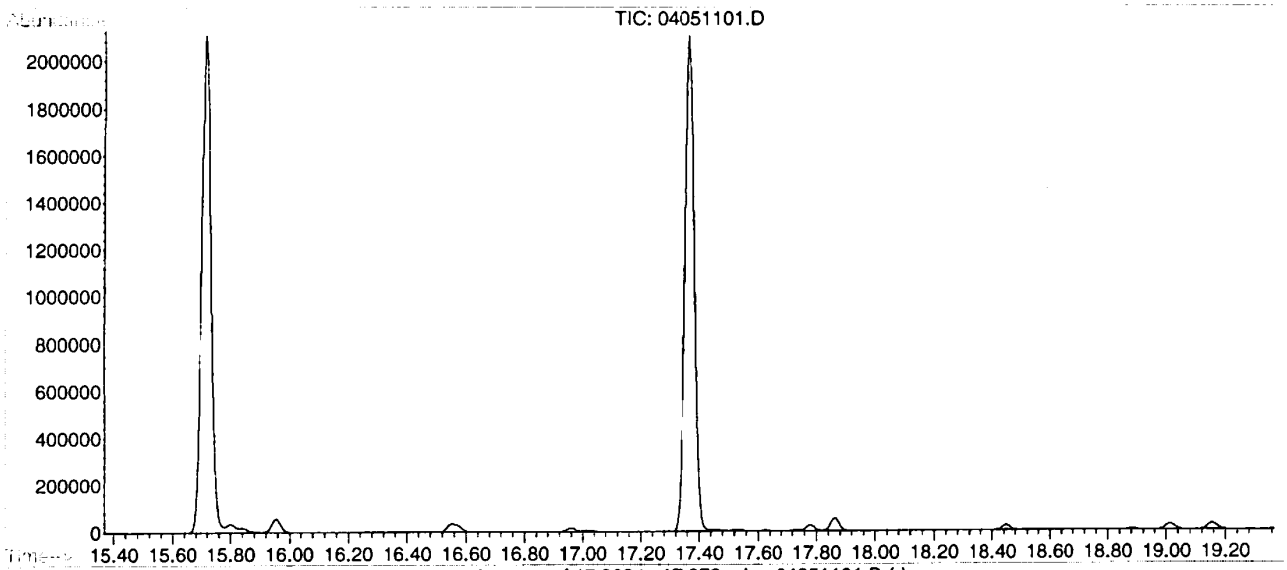
Directory: C:\HPCHEM\1\DATA\040511

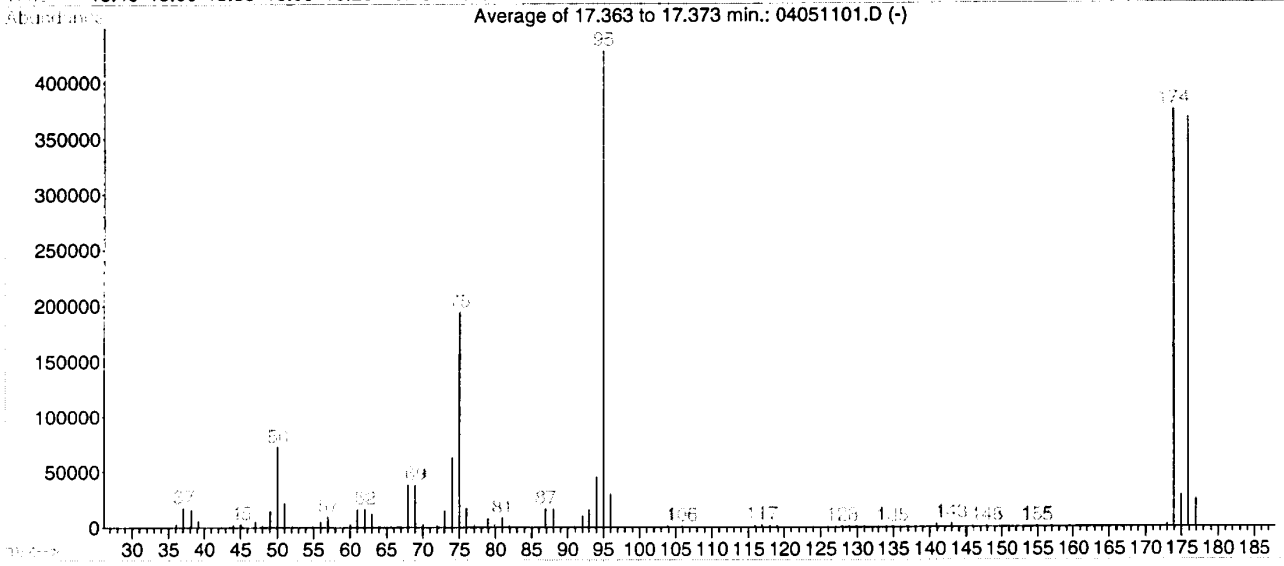
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04051101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	5 Apr 2011 10:02
2	2	04051102.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	5 Apr 2011 10:45
3	3	04051103.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	5 Apr 2011 11:27
4	2	04051104.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	5 Apr 2011 12:10
5	2	04051105.d	1.	MBLK	MBLK EPA_TO15-UG/M3	5 Apr 2011 12:54
6	3	04051106.d	1.	CLEAN CHECK 633	SAMP EPA_TO15-UG/M3	5 Apr 2011 13:39
7	4	04051107.d	1.	CLEAN CHECK 635	SAMP EPA_TO15-UG/M3	5 Apr 2011 14:24
8	5	04051108.d	80000.	1103389-010B	SAMP EPA_TO15-UG/M3	5 Apr 2011 15:06
9	2	04051110.d	80000.	1103389-010BDUP	DUP EPA_TO15-UG/M3	5 Apr 2011 15:48
10	3	04051111.d	8000.	1103389-021B	SAMP EPA_TO15-UG/M3	5 Apr 2011 16:30
11	4	04051112.d	40.	1103389-034B	SAMP EPA_TO15-UG/M3	5 Apr 2011 17:13
12	6	04051113.d	40.	1103389-035B	SAMP EPA_TO15-UG/M3	5 Apr 2011 17:54
13	7	04051114.d	40.	1103389-036B	SAMP EPA_TO15-UG/M3	5 Apr 2011 18:36
14	8	04051115.d	40.	1103389-037B	SAMP EPA_TO15-UG/M3	5 Apr 2011 19:19
15	9	04051116.d	20000.	1103389-022B	SAMP EPA_TO15-UG/M3	5 Apr 2011 20:04
16	10	04051117.d	40000.	1103389-023B	SAMP EPA_TO15-UG/M3	5 Apr 2011 20:49
17	11	04051118.d	40000.	1103389-024B	SAMP EPA_TO15-UG/M3	5 Apr 2011 21:34
18	12	04051119.d	40000.	1103389-025B	SAMP EPA_TO15-UG/M3	5 Apr 2011 22:19
19	13	04051120.d	80000.	1103389-026B	SAMP EPA_TO15-UG/M3	5 Apr 2011 23:04
20	14	04051121.d	40000.	1103389-026B – DATA NOT USED RMC 4/15/11	SAMP EPA_TO15-UG/M3	5 Apr 2011 23:49
21	15	04051122.d	40000.	1103389-027B	SAMP EPA_TO15-UG/M3	6 Apr 2011 00:33
22	16	04051123.d	20000.	1103389-028B	SAMP EPA_TO15-UG/M3	6 Apr 2011 01:18
23	1	04051124.d	24.	1103389-038A	SAMP EPA_TO15-UG/M3	6 Apr 2011 02:04
24	2	04051125.d	8000.	1103389-029A	SAMP EPA_TO15-UG/M3	6 Apr 2011 02:49
25	3	04051126.d	8000.	1103389-030A	SAMP EPA_TO15-UG/M3	6 Apr 2011 03:33
26	4	04051127.d	8000.	1103609-001A	SAMP EPA_TO15-UG/M3	6 Apr 2011 04:18
27	6	04051128.d	8000.	1103609-017A – DATA NOT USED RMC 4/15/11	SAMP EPA_TO15-UG/M3	6 Apr 2011 05:02
28	7	04051129.d	8000.	1103609-006A	SAMP EPA_TO15-UG/M3	6 Apr 2011 05:46
29	8	04051130.d	8000.	1103609-007A	SAMP EPA_TO15-UG/M3	6 Apr 2011 06:31
30	9	04051131.d	8000.	1103609-008A	SAMP EPA_TO15-UG/M3	6 Apr 2011 07:15
31	10	04051132.d	8000.	1103609-009A	SAMP EPA_TO15-UG/M3	6 Apr 2011 07:59
32	2	04051133.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	6 Apr 2011 09:31

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040511\04051101.D
Acq On : 5 Apr 2011 10:02 am
Sample : BFB 50cc voa020211c
Misc : TUNE BFB_TUNE
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00





Spectrum Information: Average of 17.363 to 17.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	72211	PASS
75	95	30	60	45.4	194475	PASS
95	95	100	100	100.0	428139	PASS
96	95	5	9	6.9	29685	PASS
173	174	0.00	2	0.7	2594	PASS
174	95	50	120	87.5	374507	PASS
175	174	4	9	7.4	27603	PASS
176	174	93	101	98.3	368085	PASS
177	176	5	9	6.7	24589	PASS

04051101.D 031611V1.M Thu Apr 14 12:32:48 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.00
2	T	Propylene	0.937	0.931	0.6	85	0.00
3	T	Dichlorodifluoromethane	3.080	2.934	4.7	81	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.056	9.3	77	0.00
5	T	Chloromethane	1.061	1.288	-21.4	104	0.00
6	T	Vinyl chloride	1.201	1.189	1.0	81	0.00
7	T	1,3-Butadiene	0.945	0.893	5.5	79	0.00
8	T	Bromomethane	1.100	0.600	45.5#	46#	0.00
9	T	Chloroethane	0.640	0.498	22.2	66	0.00
10	T	Trichlorofluoromethane	2.939	2.709	7.8	78	0.00
11	T	Ethanol	0.208	0.226	-8.7	96	0.00
12	T	Freon113	2.361	2.095	11.3	74	0.00
13	T	1,1-Dichloroethene	1.731	1.430	17.4	69	0.00
14	T	Acetone	1.541	1.176	23.7	69	0.00
15	T	Carbon disulfide	3.087	2.708	12.3	74	0.00
16	T	2-Propanol	1.109	1.051	5.2	81	0.00
17	T	Methylene chloride	1.259	1.026	18.5	70	0.00
18	T	tert-Butyl Methyl Ether	2.858	2.123	25.7	68	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.397	14.3	72	0.00
20	T	n-Hexane	1.825	1.439	21.2	67	0.00
21	T	1,1-Dichloroethane	2.005	1.809	9.8	77	0.00
22	T	Vinyl acetate	2.051	1.374	33.0#	60	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.015	11.4	75	0.00
24	T	2-Butanone	1.589	1.325	16.6	78	0.00
25	T	Ethyl acetate	1.982	1.664	16.0	77	0.00
26	T	Tetrahydrofuran	1.042	0.935	10.3	78	0.00
27	T	Chloroform	2.179	1.892	13.2	74	0.00
28	T	1,1,1-Trichloroethane	2.251	1.976	12.2	74	0.00
29	T	Cyclohexane	1.848	1.586	14.2	73	0.00
30	T	Carbon tetrachloride	2.254	2.028	10.0	76	0.00
31	T	Benzene	3.090	2.528	18.2	73	0.00
32	T	1,2-Dichloroethane	1.244	1.027	17.4	72	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	78	0.00
34	T	Heptane	0.604	0.522	13.6	72	0.00
35	T	Trichloroethene	0.426	0.642	-50.7#	127	0.00
36	T	1,2-Dichloropropane	0.301	0.246	18.3	70	0.00
37	T	1,4-Dioxane	0.120	0.102	15.0	72	0.00
38	T	Bromodichloromethane	0.589	0.524	11.0	74	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.375	19.0	69	0.00
40	T	4-Methyl-2-pentanone	0.138	0.130	5.8	79	0.00
41	T	Toluene	0.942	0.805	14.5	75	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.296	22.7	66	0.00
43	T	1,1,2-Trichloroethane	0.307	0.242	21.2	67	0.00
44	T	Tetrachloroethene	0.522	0.470	10.0	75	0.00
45	T	2-Hexanone	0.201	0.261	-29.9	101	0.00
46	T	Chlorodibromomethane	0.515	0.433	15.9	70	0.00
47	T	1,2-Dibromoethane	0.447	0.312	30.2#	59	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00
49	T	Chlorobenzene	0.879	0.684	22.2	70	0.00
50	T	Ethylbenzene	1.453	1.212	16.6	77	0.00
51	T	m,p-Xylene	1.125	0.911	19.0	73	0.00
52	T	o-Xylene	1.096	0.899	18.0	75	0.00
53	T	Styrene	0.752	0.654	13.0	78	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 11:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	609792	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2094150	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1540048	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	952787	12.34	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.72%				
Target Compounds							Qvalue
2) Propylene	5.67	41	463264	10.13	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1316703	8.76	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	952776	8.62	ppbv		94
5) Chloromethane	6.17	50	596777	11.52	ppbv		99
6) Vinyl chloride	6.38	62	545167	9.31	ppbv		100
7) 1,3-Butadiene	6.44	39	427120	9.26	ppbv		97
8) Bromomethane	7.02	94	272153	5.07	ppbv		99
9) Chloroethane	7.17	64	223546	7.16	ppbv		99
10) Trichlorofluoromethane	7.50	101	1268662	8.85	ppbv		99
11) Ethanol	7.72	45	101229	9.99	ppbv		99
12) Freon113	8.16	101	1001595	8.70	ppbv		96
13) 1,1-Dichloroethene	8.27	61	690504	8.18	ppbv		95
14) Acetone	8.36	43	573890	7.64	ppbv		97
15) Carbon disulfide	8.64	76	1281474	8.51	ppbv	#	100
16) 2-Propanol	8.40	45	518060	9.57	ppbv		87
17) Methylene chloride	8.93	49	500503	8.15	ppbv		93
18) tert-Butyl Methyl Ether	9.12	73	1025481	7.35	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	667763	8.40	ppbv		94
20) n-Hexane	9.39	57	708948	7.96	ppbv		97
21) 1,1-Dichloroethane	9.77	63	856095	8.75	ppbv		99
22) Vinyl acetate	9.70	43	663790	6.64	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	485452	8.68	ppbv		95
24) 2-Butanone	10.42	43	639796	8.25	ppbv		95
25) Ethyl acetate	10.37	43	795362	8.22	ppbv	#	100
26) Tetrahydrofuran	10.76	42	456337	8.98	ppbv		96
27) Chloroform	10.78	83	904362	8.51	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	925558	8.43	ppbv		99
29) Cyclohexane	11.04	56	758289	8.41	ppbv		96
30) Carbon tetrachloride	11.19	117	940090	8.55	ppbv		99
31) Benzene	11.47	78	1183773	7.85	ppbv		99
32) 1,2-Dichloroethane	11.55	62	486135	8.01	ppbv		99
34) Heptane	11.52	43	865189	8.55	ppbv		97
35) Trichloroethene	12.20	130	1031838	14.45	ppbv		97
36) 1,2-Dichloropropane	12.56	63	404527	8.03	ppbv		100
37) 1,4-Dioxane	12.63	88	163430	8.14	ppbv		98
38) Bromodichloromethane	12.84	83	842532	8.54	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	596391	7.69	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	218330	9.47	ppbv		98
41) Toluene	13.80	91	1321678	8.37	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	452010	7.04	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	396782	7.72	ppbv		98
44) Tetrachloroethene	14.51	166	756687	8.65	ppbv		100
45) 2-Hexanone	14.59	43	428845	12.71	ppbv		98
46) Chlorodibromomethane	14.93	129	711404	8.25	ppbv		99
47) 1,2-Dibromoethane	15.17	107	502298	6.70	ppbv		98
49) Chlorobenzene	15.76	112	834887	7.71	ppbv		94
50) Ethylbenzene	15.80	91	1463183	8.17	ppbv		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 11:52 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

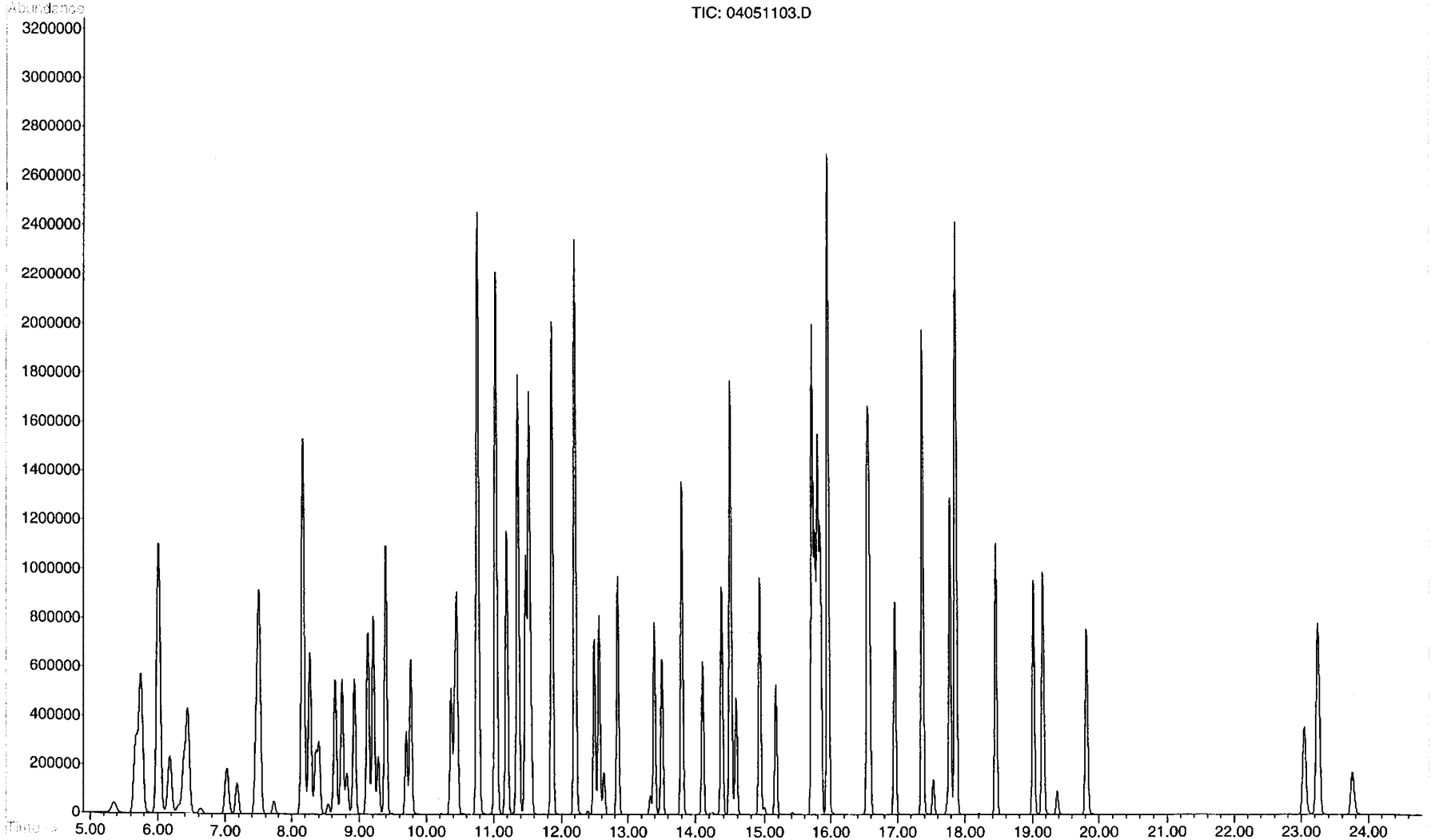
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	2154491	15.54	ppbv		95
52)	o-Xylene	16.55	91	1107481	8.20	ppbv		95
53)	Styrene	16.58	104	789638	8.52	ppbv		98
54)	Bromoform	16.96	173	604687	7.78	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	105606	1.38	ppbv		97
57)	4-Ethyltoluene	17.78	105	1197787	7.42	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	1005843	7.56	ppbv	#	55
59)	1,2,4-Trimethylbenzene	18.45	105	901166	7.58	ppbv		97
60)	1,3-Dichlorobenzene	19.01	146	639229	7.73	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	614169	7.77	ppbv		99
62)	Benzyl chloride	19.38	91	121356	2.35	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	539008	7.55	ppbv		99
64)	1,2,4-Trichlorobenzene	23.04	180	283677	6.97	ppbv		98
65)	Hexachlorobutadiene	23.25	225	396062	5.56	ppbv		99
66)	Naphthalene	23.75	128	363863	7.35	ppbv		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 11:52 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040511\04051103.D Vial: 3
Acq On : 5 Apr 2011 11:27 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.511	19.0	72	0.00
55	S	4-Bromofluorobenzene	0.627	0.619	1.3	80	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.086	86.2#	12#	0.00
57	T	4-Ethyltoluene	1.309	0.992	24.2	71	0.00
58	T	1,3,5-Trimethylbenzene	1.080	0.842	22.0	73	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.746	22.7	71	0.00
60	T	1,3-Dichlorobenzene	0.671	0.535	20.3	73	0.00
61	T	1,4-Dichlorobenzene	0.642	0.519	19.2	73	0.00
62	T	Benzyl chloride	0.420	0.102	75.7#	22#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.451	22.2	71	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.253	23.3	63	0.00
65	T	Hexachlorobutadiene	0.578	0.342	40.8#	53	0.00
66		Naphthalene	0.402	0.321	20.1	67	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051104.D Vial: 2
Acq On : 5 Apr 2011 12:10 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 12:35 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	609838	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2187406	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1543267	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	955009	12.35	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.80%				
Target Compounds							Qvalue
2) Propylene	5.68	41	48762	1.07	ppbv		99
3) Dichlorodifluoromethane	5.75	85	141486	0.94	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	104203	0.94	ppbv		92
5) Chloromethane	6.18	50	53246	1.03	ppbv	#	93
6) Vinyl chloride	6.38	62	60043	1.02	ppbv	#	98
7) 1,3-Butadiene	6.44	39	49251	1.07	ppbv		94
8) Bromomethane	7.02	94	50405	0.94	ppbv		100
9) Chloroethane	7.18	64	28470	0.91	ppbv	#	97
10) Trichlorofluoromethane	7.51	101	142059	0.99	ppbv		99
11) Ethanol	7.73	45	9833	0.97	ppbv	#	89
12) Freon113	8.16	101	112094	0.97	ppbv		97
13) 1,1-Dichloroethene	8.26	61	87938	1.04	ppbv		94
14) Acetone	8.36	43	74152	0.99	ppbv	#	96
15) Carbon disulfide	8.64	76	150661	1.00	ppbv	#	99
16) 2-Propanol	8.40	45	44064	0.81	ppbv	#	65
17) Methylene chloride	8.92	49	66258	1.08	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	135178	0.97	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	78748	0.99	ppbv		94
20) n-Hexane	9.39	57	86885	0.98	ppbv		94
21) 1,1-Dichloroethane	9.77	63	93300	0.95	ppbv		98
22) Vinyl acetate	9.70	43	85323	0.85	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	52607	0.94	ppbv		93
24) 2-Butanone	10.42	43	69350	0.89	ppbv		94
25) Ethyl acetate	10.37	43	75479	0.78	ppbv	#	100
26) Tetrahydrofuran	10.76	42	44670	0.88	ppbv		94
27) Chloroform	10.78	83	106373	1.00	ppbv		98
28) 1,1,1-Trichloroethane	11.03	97	107827	0.98	ppbv		98
29) Cyclohexane	11.04	56	87946	0.98	ppbv		94
30) Carbon tetrachloride	11.19	117	103926	0.95	ppbv		99
31) Benzene	11.47	78	142883	0.95	ppbv		98
32) 1,2-Dichloroethane	11.54	62	59356	0.98	ppbv		98
34) Heptane	11.52	43	106939	1.01	ppbv		94
35) Trichloroethene	12.20	130	70202	0.94	ppbv		97
36) 1,2-Dichloropropane	12.56	63	49741	0.94	ppbv		99
37) 1,4-Dioxane	12.63	88	19664	0.94	ppbv		99
38) Bromodichloromethane	12.84	83	96233	0.93	ppbv		99
39) cis-1,3-Dichloropropene	13.40	75	72150	0.89	ppbv		96
40) 4-Methyl-2-pentanone	13.51	58	15471	0.64	ppbv		94
41) Toluene	13.80	91	160003	0.97	ppbv		97
42) trans-1,3-Dichloropropene	14.10	75	55474	0.83	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	51144	0.95	ppbv		99
44) Tetrachloroethene	14.50	166	91532	1.00	ppbv		98
45) 2-Hexanone	14.59	43	25103	0.71	ppbv		97
46) Chlorodibromomethane	14.93	129	84061	0.93	ppbv		99
47) 1,2-Dibromoethane	15.17	107	73768	0.94	ppbv		100
49) Chlorobenzene	15.76	112	107397	0.99	ppbv	#	83
50) Ethylbenzene	15.80	91	177286	0.99	ppbv		93

(#) = qualifier out of range (m) = manual integration
04051104.D 031611V1.M Thu Apr 14 12:36:46 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051104.D Vial: 2
Acq On : 5 Apr 2011 12:10 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 12:35 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

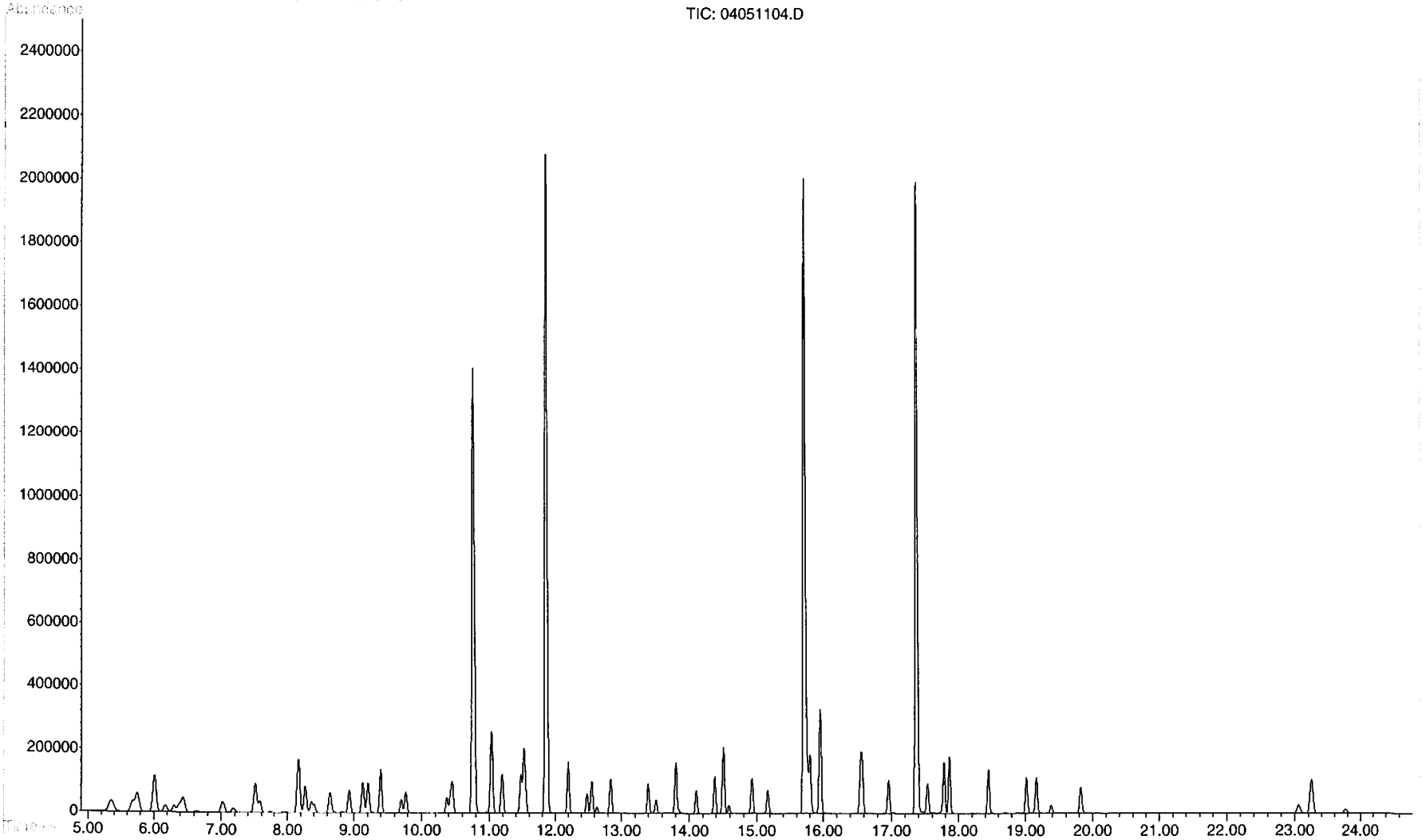
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	272180	1.96	ppbv		93
52) o-Xylene	16.55	91	135924	1.00	ppbv		96
53) Styrene	16.58	104	89960	0.97	ppbv		98
54) Bromoform	16.96	173	74682	0.96	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	68093	0.89	ppbv		99
57) 4-Ethyltoluene	17.78	105	158902	0.98	ppbv		98
58) 1,3,5-Trimethylbenzene	17.86	105	134877	1.01	ppbv		93
59) 1,2,4-Trimethylbenzene	18.45	105	115163	0.97	ppbv		98
60) 1,3-Dichlorobenzene	19.02	146	81533	0.98	ppbv		97
61) 1,4-Dichlorobenzene	19.16	146	79407	1.00	ppbv		98
62) Benzyl chloride	19.37	91	43616	0.84	ppbv		94
63) 1,2-Dichlorobenzene	19.82	146	68380	0.96	ppbv		98
64) 1,2,4-Trichlorobenzene	23.06	180	31027	0.76	ppbv		94
65) Hexachlorobutadiene	23.25	225	58259	0.82	ppbv		98
66) Naphthalene	23.76	128	42617	0.86	ppbv	#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051104.D Vial: 2
Acq On : 5 Apr 2011 12:10 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 12:35 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051105.D Vial: 2
Acq On : 5 Apr 2011 12:54 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 13:19 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

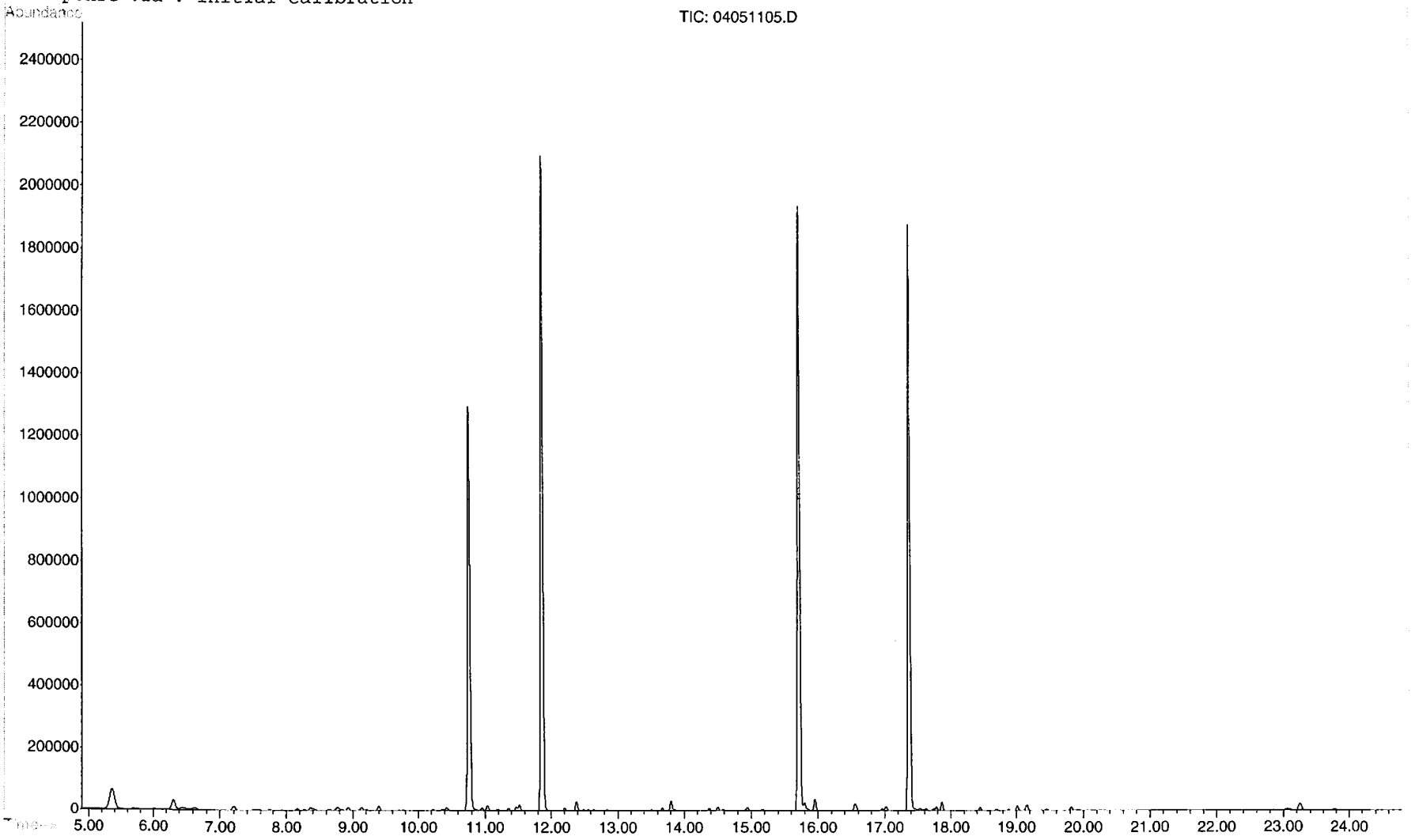
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	606512	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2176127	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.72	117	1506272	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	888864	11.77	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 94.16%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
04051105.D 031611V1.M Thu Apr 14 12:36:56 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051105.D Vial: 2
Acq On : 5 Apr 2011 12:54 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 5 13:19 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:44 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	570986	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1996064	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1439020	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	881858	12.23	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.84%				
Target Compounds							Qvalue
20) n-Hexane*	9.39	57	1291374	15.49	ppbv		98
29) Cyclohexane*	11.04	56	1332979	15.79	ppbv	#	81
31) Benzene	11.48	78	557342	3.95	ppbv		94
34) Heptane	11.52	43	732648	7.60	ppbv	#	91
41) Toluene	13.80	91	821359	5.46	ppbv		98
51) m,p-Xylene	15.95	91	107035	0.83	ppbv		94

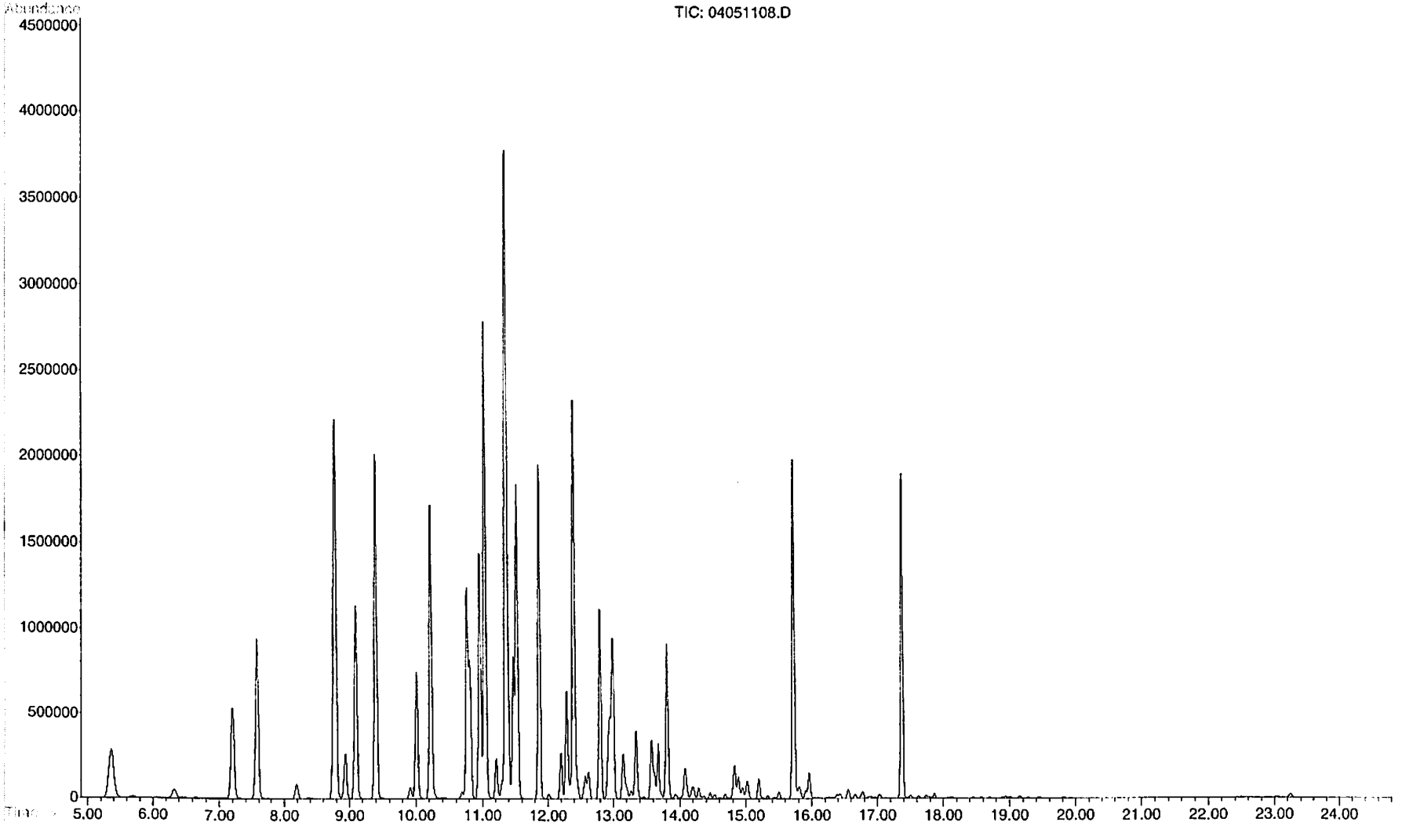
* = reported only 4/15/11 AP

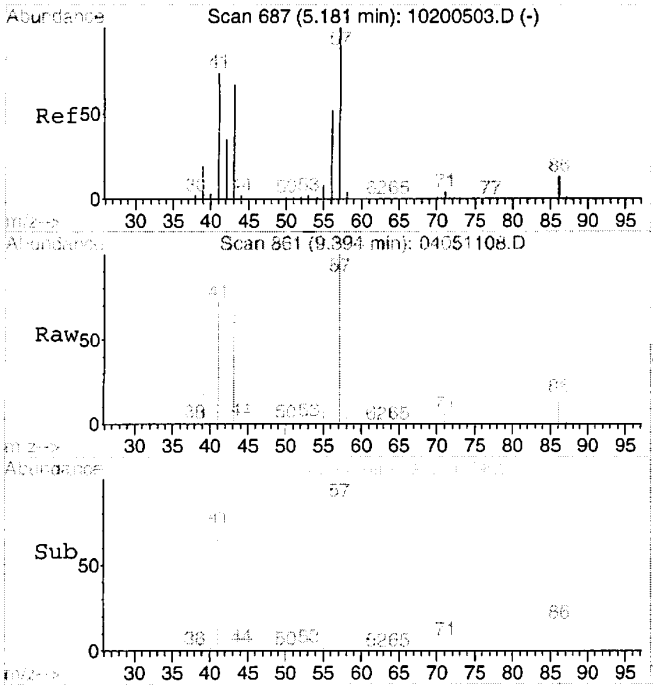
(#) = qualifier out of range (m) = manual integration
04051108.D 031611V1.M Thu Apr 14 12:37:16 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051108.D Vial: 5
Acq On : 5 Apr 2011 3:06 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:44 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

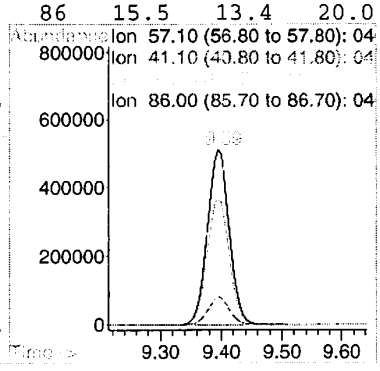


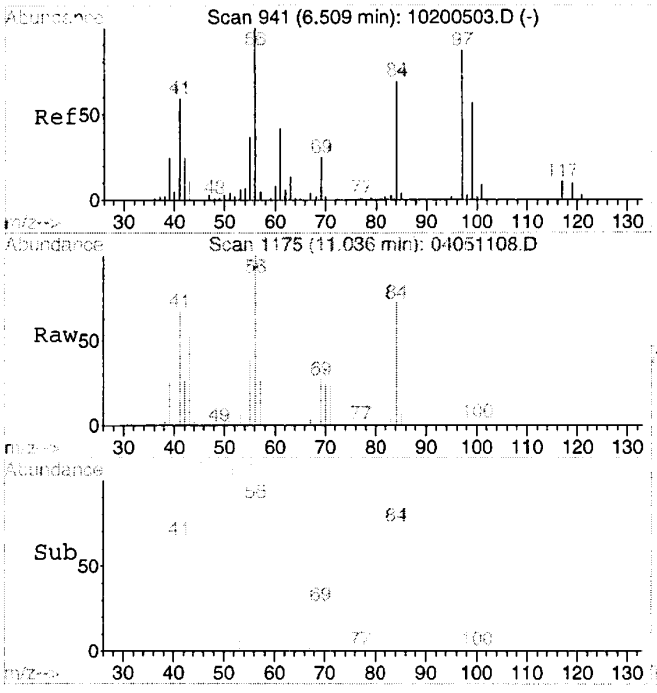


#20
n-Hexane
Concen: 15.49 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 57 Resp: 1291374

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

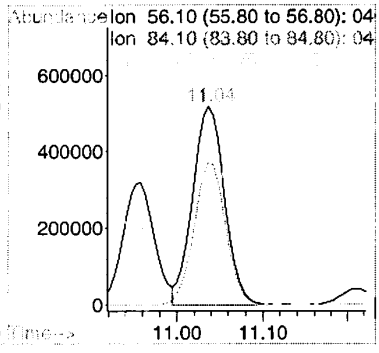


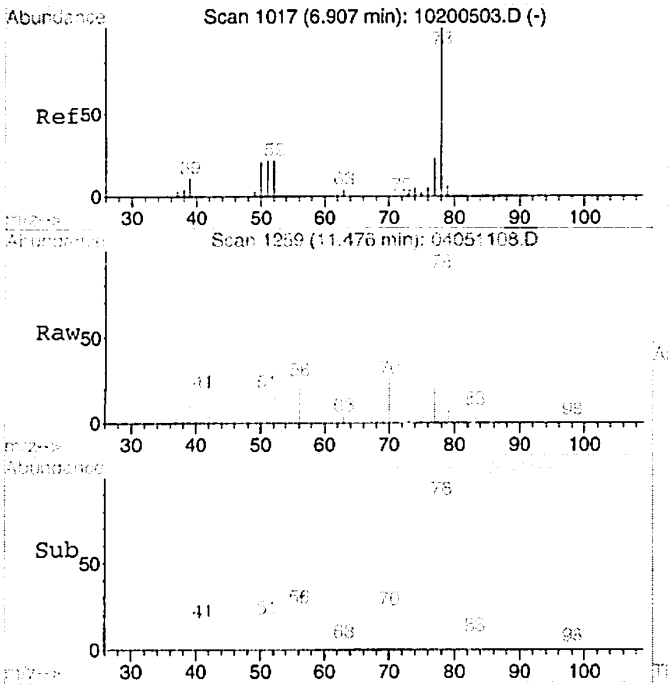


#29
Cyclohexane
Concen: 15.79 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 56 Resp: 1332979

Ion	Ratio	Lower	Upper
56	100		
84	72.0	72.4	108.6#
41	68.0	43.8	65.8#

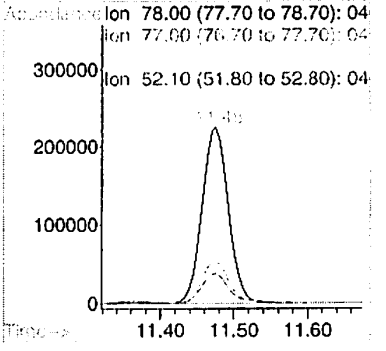


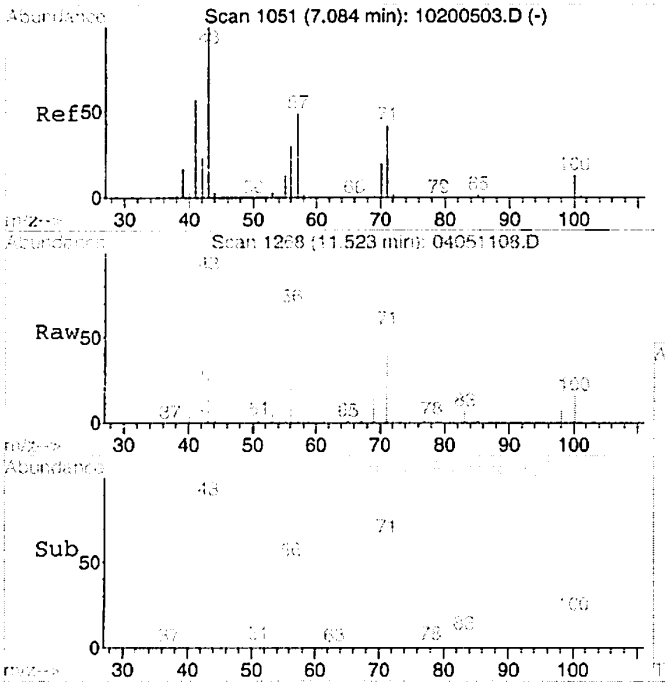


#31
Benzene
Concen: 3.95 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 78 Resp: 557342

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	21.3	0.0	36.1
52	18.3	0.0	36.0

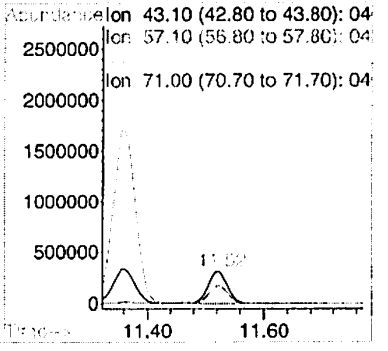


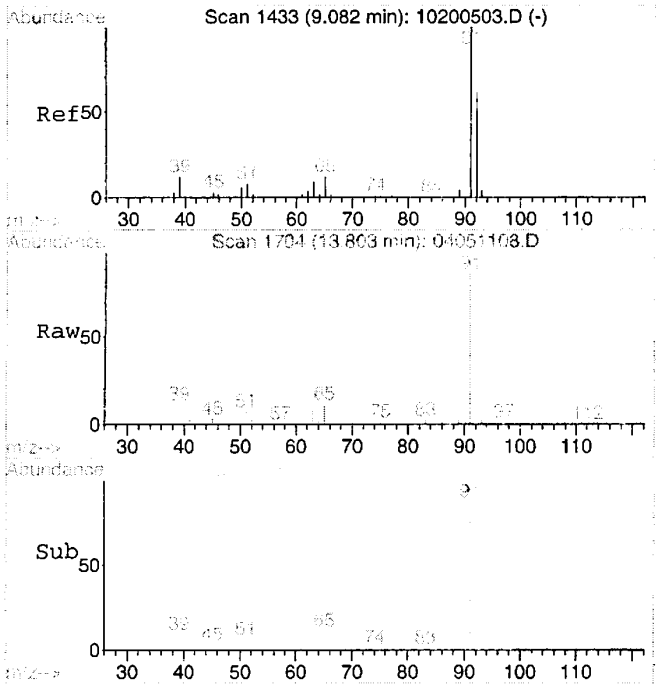


#34
Heptane
Concen: 7.60 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 43 Resp: 732648

Ion	Ratio	Lower	Upper
43	100		
57	58.9	42.2	63.4
100	14.6	17.3	25.9#
71	54.6	48.3	72.5

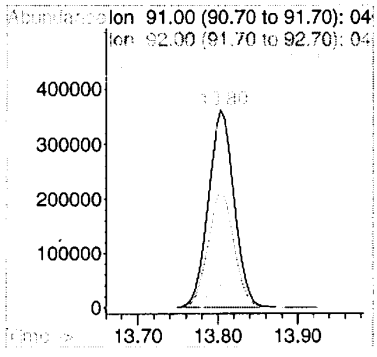


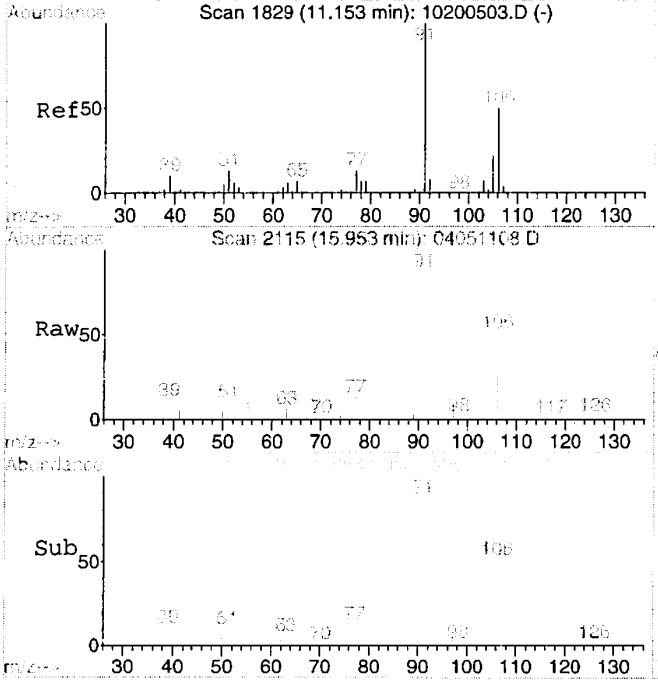


#41
Toluene
Concen: 5.46 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 91 Resp: 821359

Ion	Ratio	Lower	Upper
91	100		
92	59.2	40.5	80.5
65	11.5	0.0	31.2

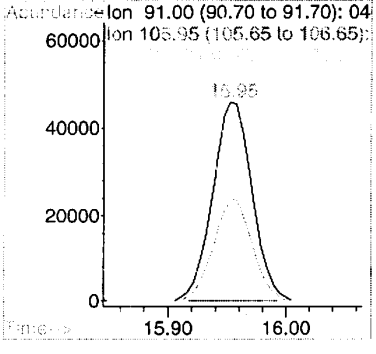




#51
m,p-Xylene
Concen: 0.83 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04051108.D
Acq: 5 Apr 2011 3:06 pm

Tgt Ion: 91 Resp: 107035

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	10.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051110.D Vial: 2
Acq On : 5 Apr 2011 3:48 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:45 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

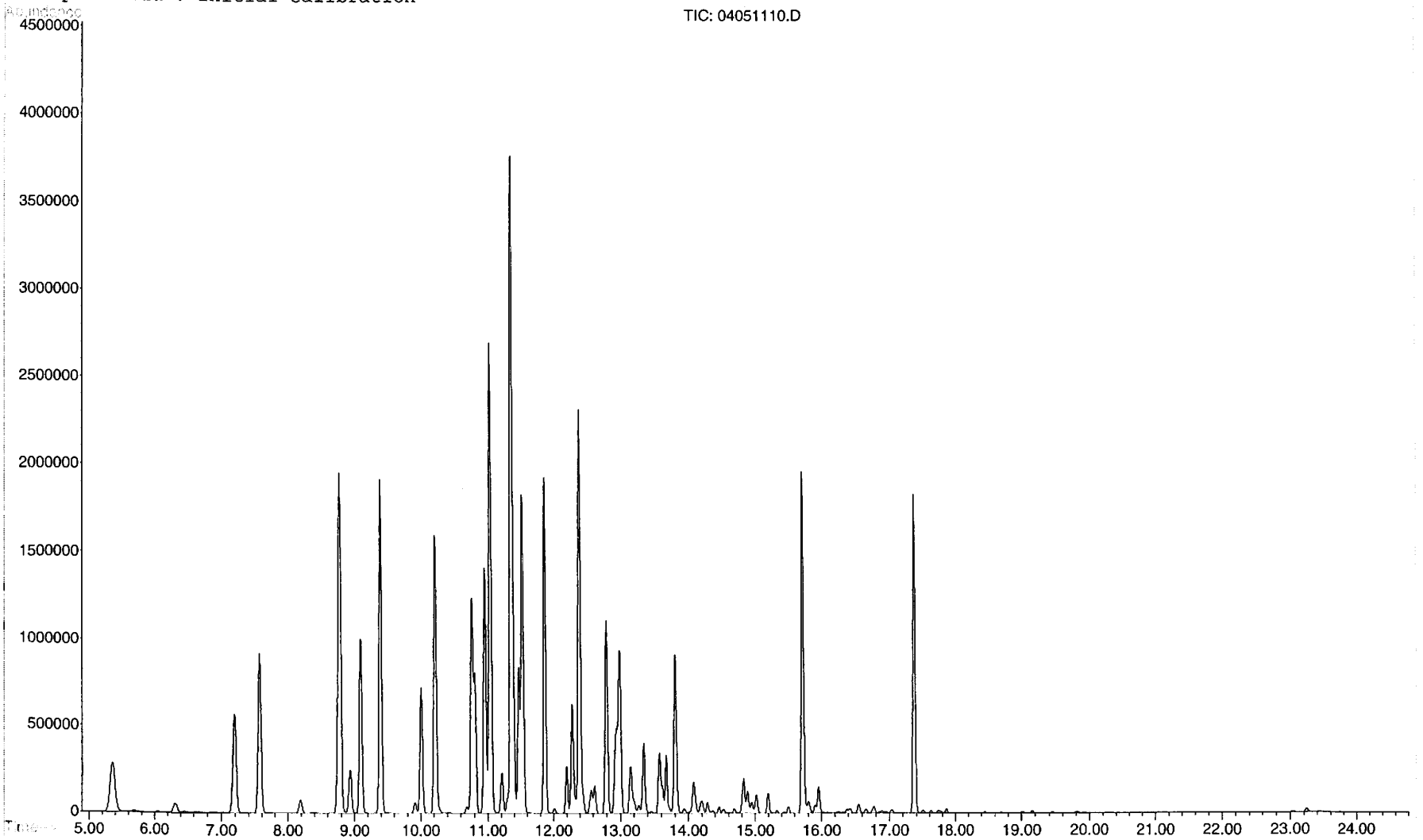
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	566293	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1977413	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1414491	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	857060	12.09	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.72%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	1215323	14.70	ppbv		97
29) Cyclohexane	11.04	56	1280296	15.29	ppbv	#	81
31) Benzene	11.47	78	553474	3.95	ppbv		96
34) Heptane	11.52	43	730842	7.65	ppbv	#	93
41) Toluene	13.80	91	826332	5.54	ppbv		98
51) m,p-Xylene	15.95	91	105062	0.83	ppbv		94

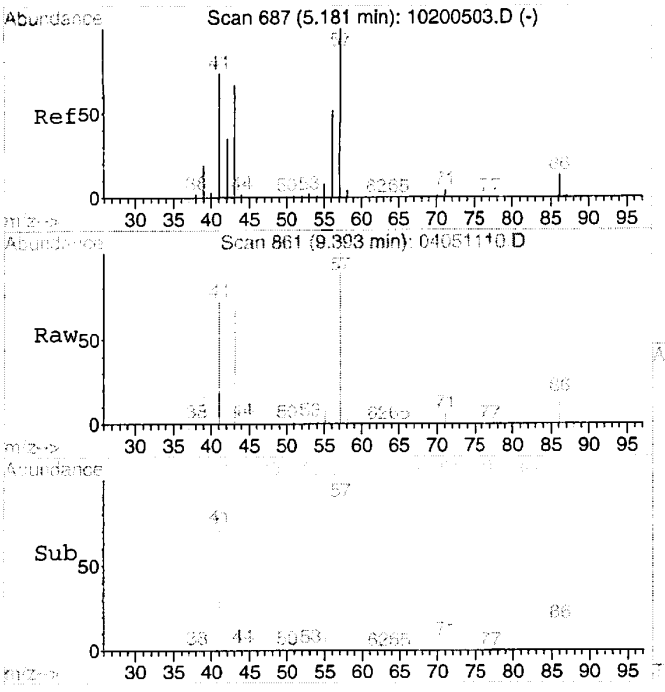
(#) = qualifier out of range (m) = manual integration
04051110.D 031611V1.M Thu Apr 14 12:37:28 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051110.D Vial: 2
Acq On : 5 Apr 2011 3:48 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-010BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:45 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

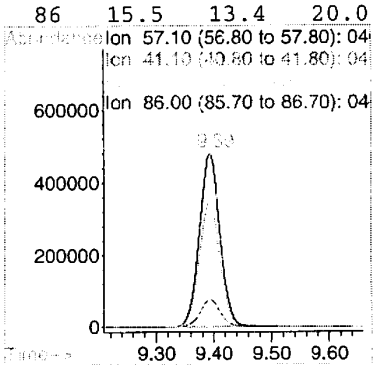


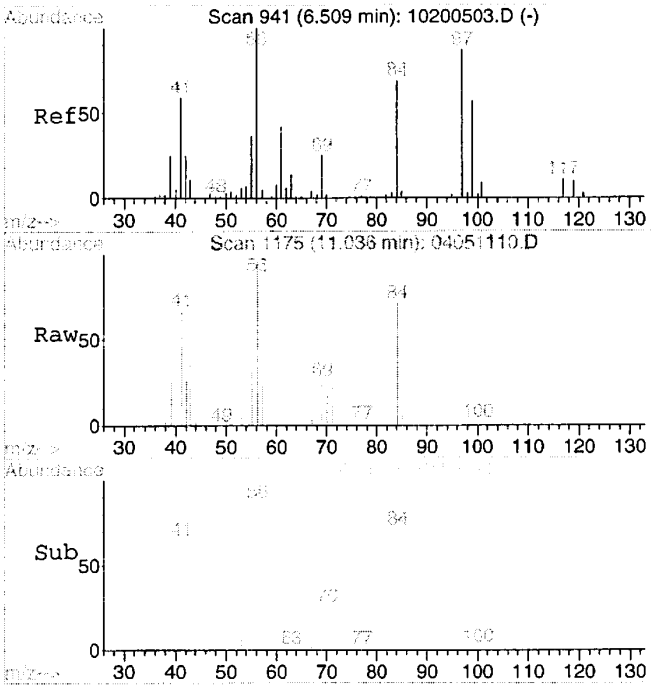


#20
n-Hexane
Concen: 14.70 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 57 Resp: 1215323

Ion	Ratio	Lower	Upper
57	100		
41	73.7	57.2	85.8
53	2.3	1.8	2.8
86	15.5	13.4	20.0

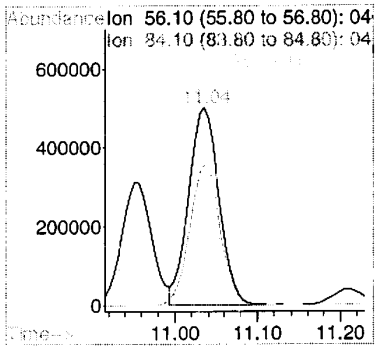


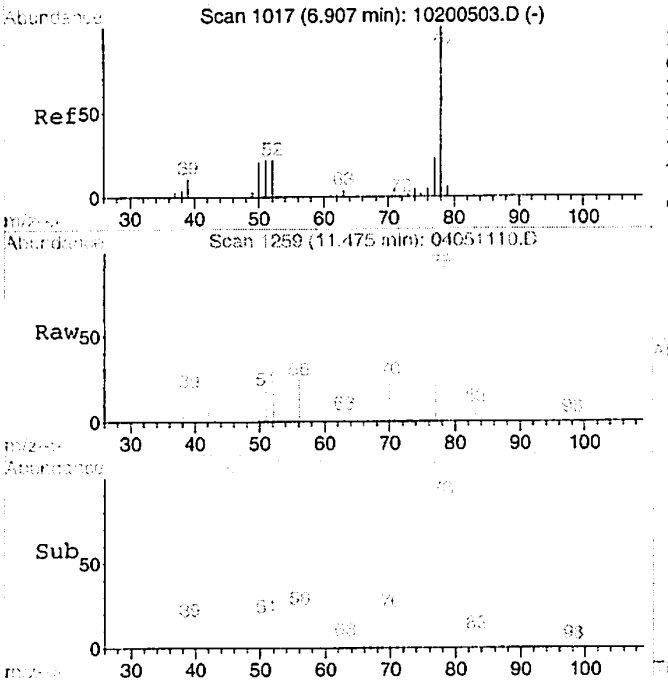


#29
Cyclohexane
Concen: 15.29 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 56 Resp: 1280296

Ion	Ratio	Lower	Upper
56	100		
84	71.9	72.4	108.6#
41	68.5	43.8	65.8#

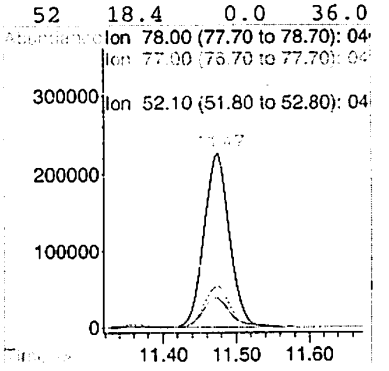


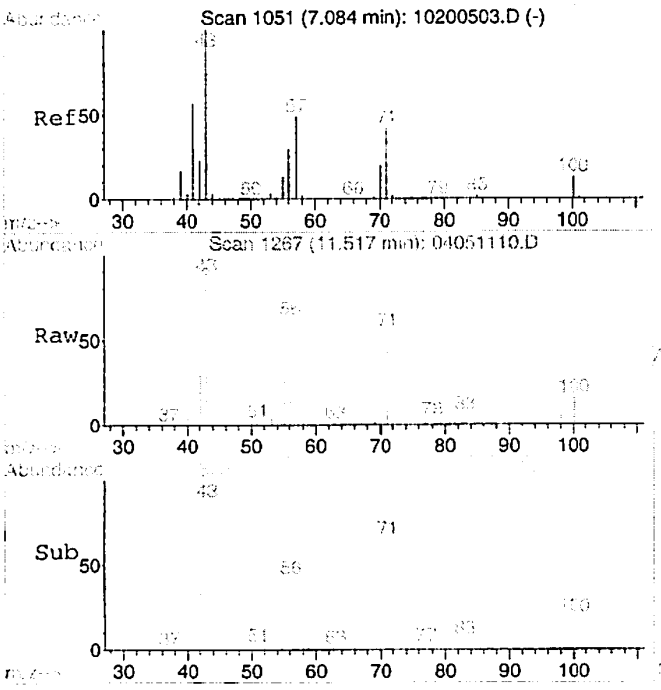


#31
Benzene
Concen: 3.95 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 78 Resp: 553474

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	18.3	0.0	36.1
52	18.4	0.0	36.0

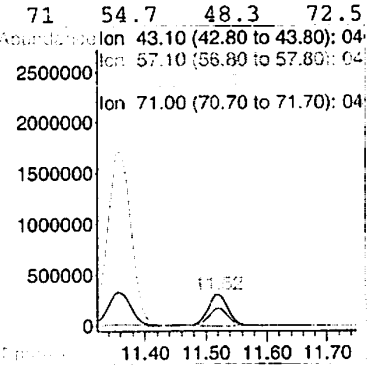


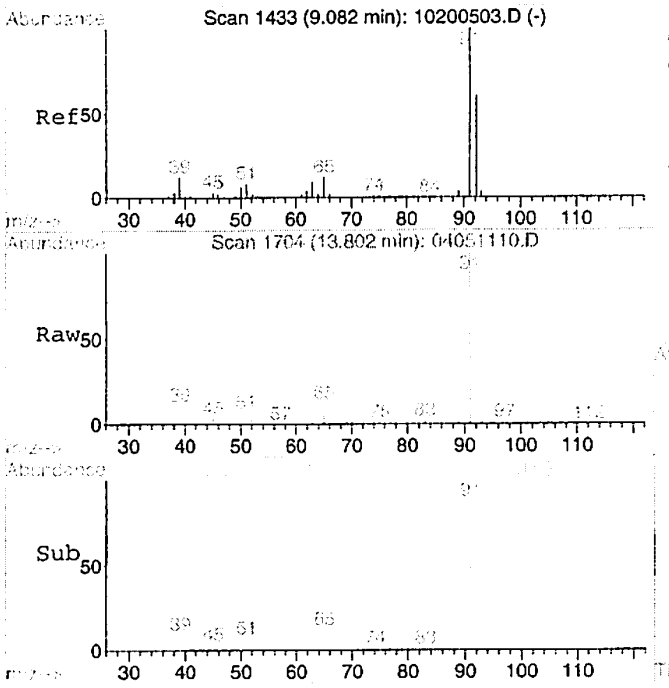


#34
Heptane
Concen: 7.65 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 43 Resp: 730842

Ion	Ratio	Lower	Upper
43	100		
57	55.5	42.2	63.4
100	14.7	17.3	25.9#
71	54.7	48.3	72.5

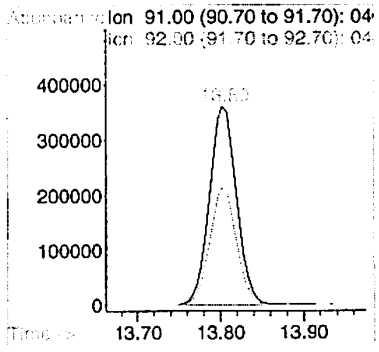


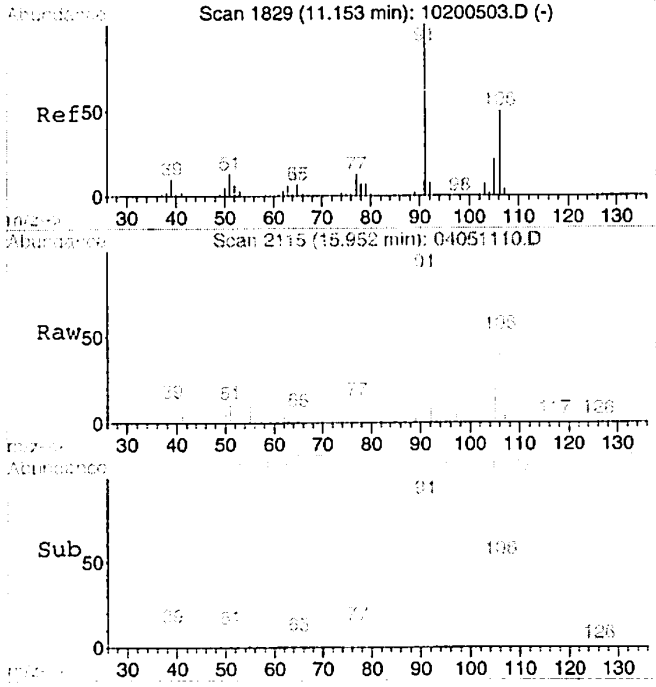


#41
Toluene
Concen: 5.54 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 91 Resp: 826332

Ion	Ratio	Lower	Upper
91	100		
92	58.7	40.5	80.5
65	11.4	0.0	31.2

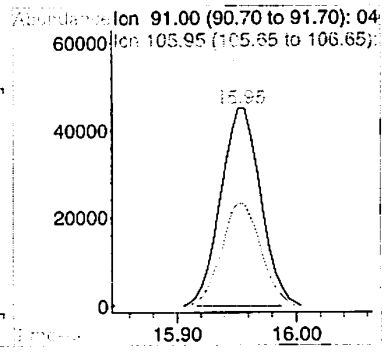




#51
m,p-Xylene
Concen: 0.83 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04051110.D
Acq: 5 Apr 2011 3:48 pm

Tgt Ion: 91 Resp: 105062

Ion	Ratio	Lower	Upper
91	100		
106	50.9	35.6	75.6
51	10.1	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:04 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	626353	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2280963	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1638091	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1033284	12.59	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.72%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	352667	3.86	ppbv		95
29) Cyclohexane	11.03	56	382384	4.13	ppbv	#	80
31) Benzene	11.47	78	206771	1.34	ppbv		95
34) Heptane	11.52	43	183015	1.66	ppbv	#	93
41) Toluene	13.81	91	386225	2.25	ppbv		99

(#) = qualifier out of range (m) = manual integration
04051127.D 031611V1.M Thu Apr 14 12:44:40 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:04 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
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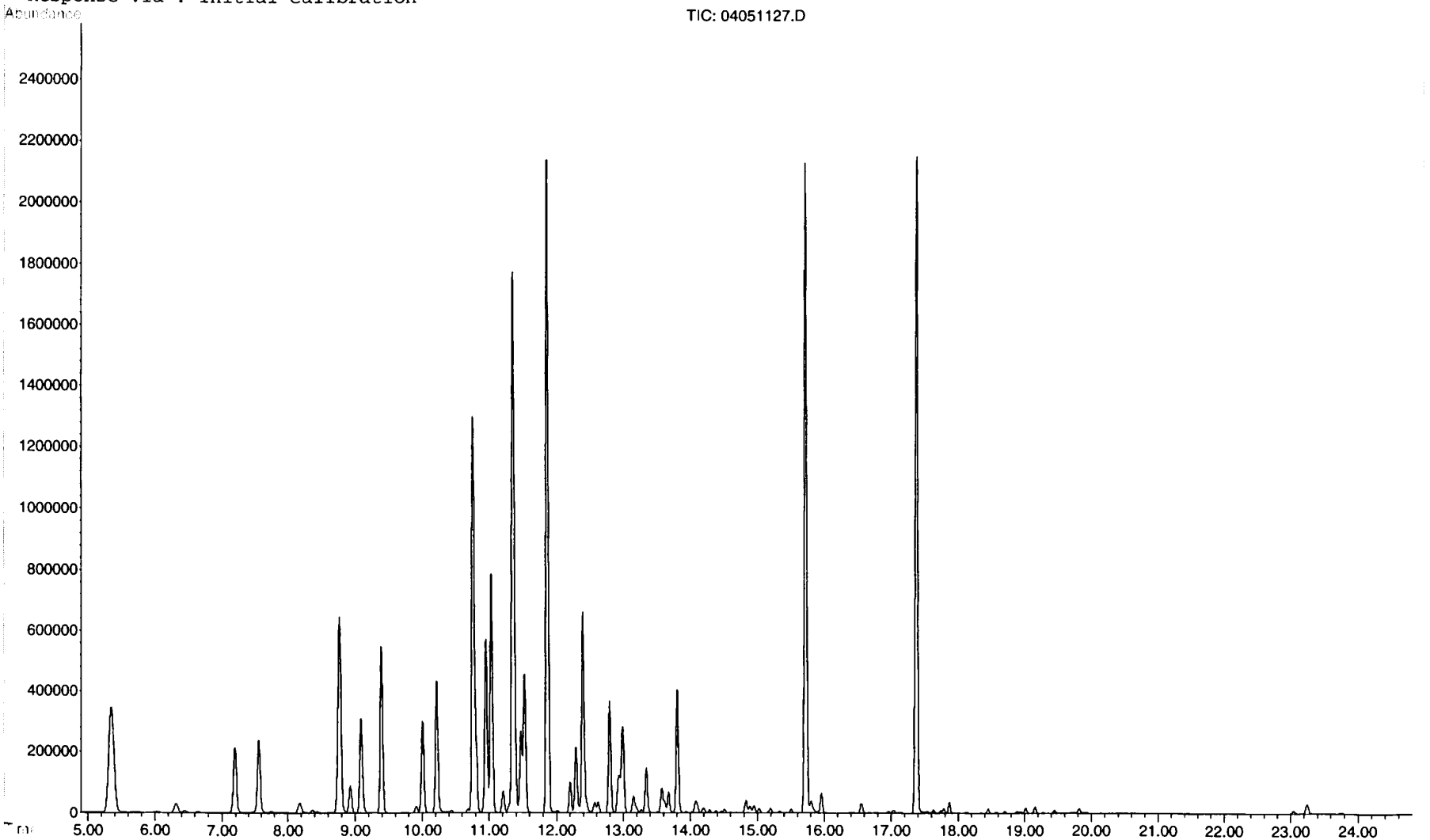
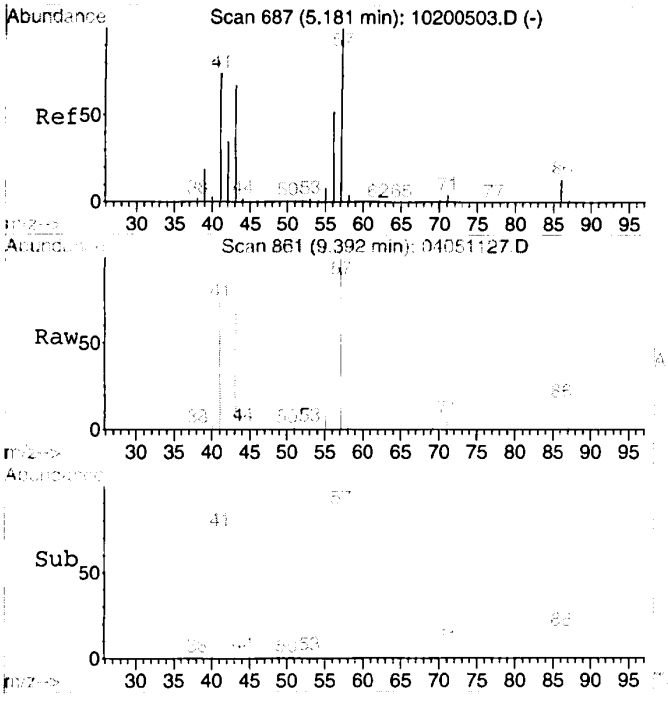
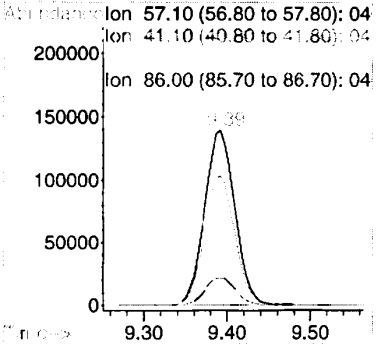


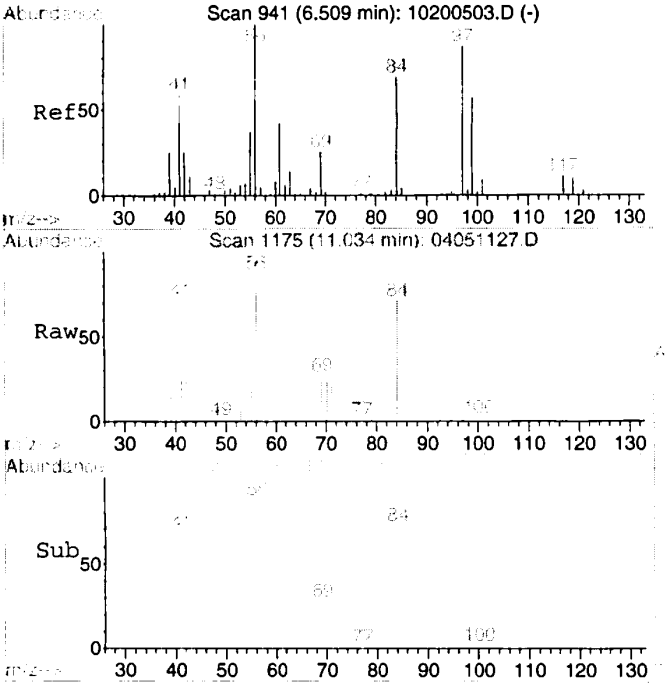


#20
n-Hexane
Concen: 3.86 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051127.D
Acq: 6 Apr 2011 4:18 am

Tgt Ion: 57 Resp: 352667

Ion	Ratio	Lower	Upper
57	100		
41	75.8	57.2	85.8
53	2.5	1.8	2.8
86	15.6	13.4	20.0

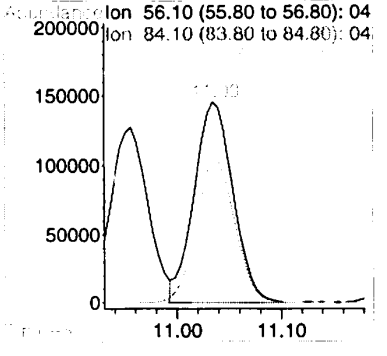


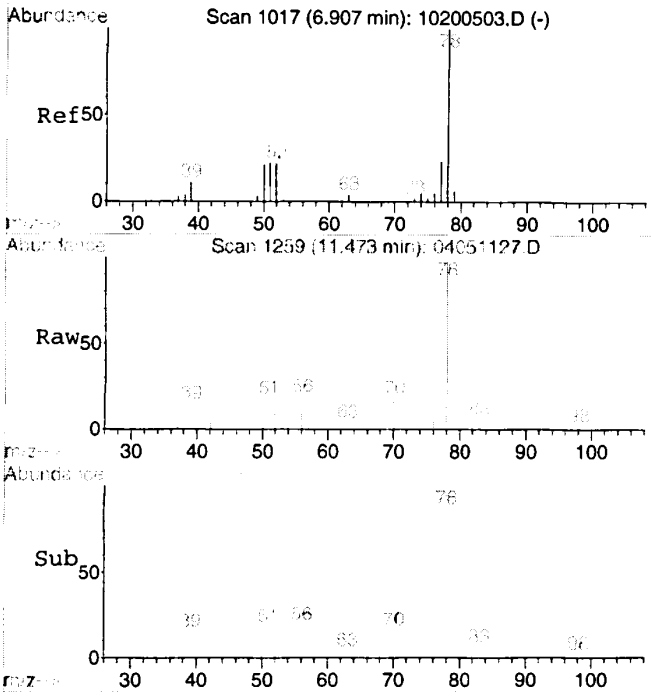


#29
Cyclohexane
Concen: 4.13 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051127.D
Acq: 6 Apr 2011 4:18 am

Tgt Ion: 56 Resp: 382384

Ion	Ratio	Lower	Upper
56	100		
84	71.4	72.4	108.6#
41	69.5	43.8	65.8#

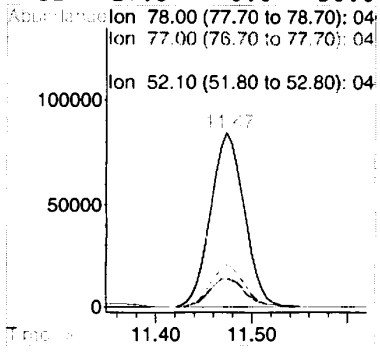


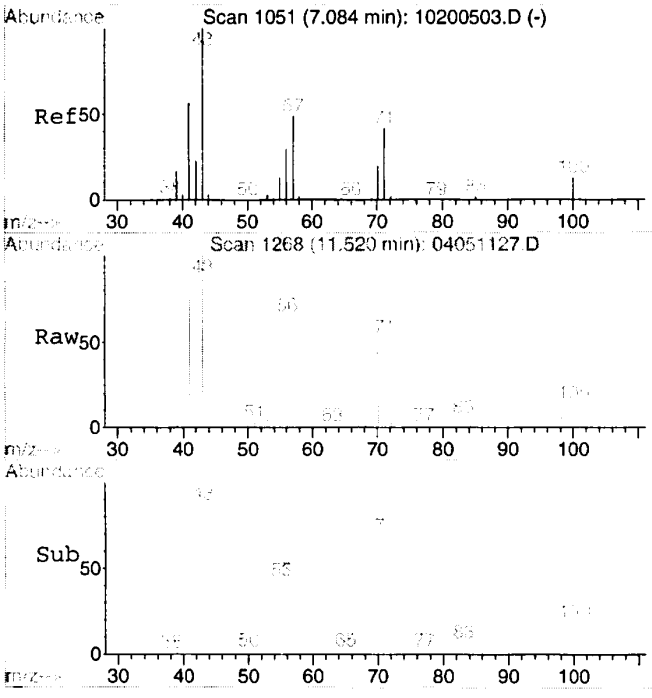


#31
Benzene
Concen: 1.34 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051127.D
Acq: 6 Apr 2011 4:18 am

Tgt Ion: 78 Resp: 206771

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.7	43.7
51	20.4	0.0	36.1
52	17.5	0.0	36.0

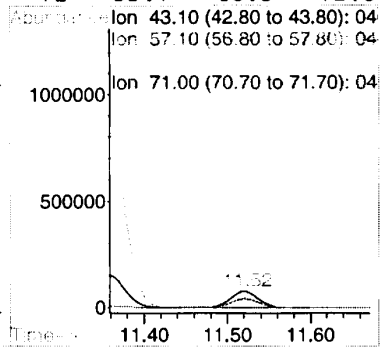


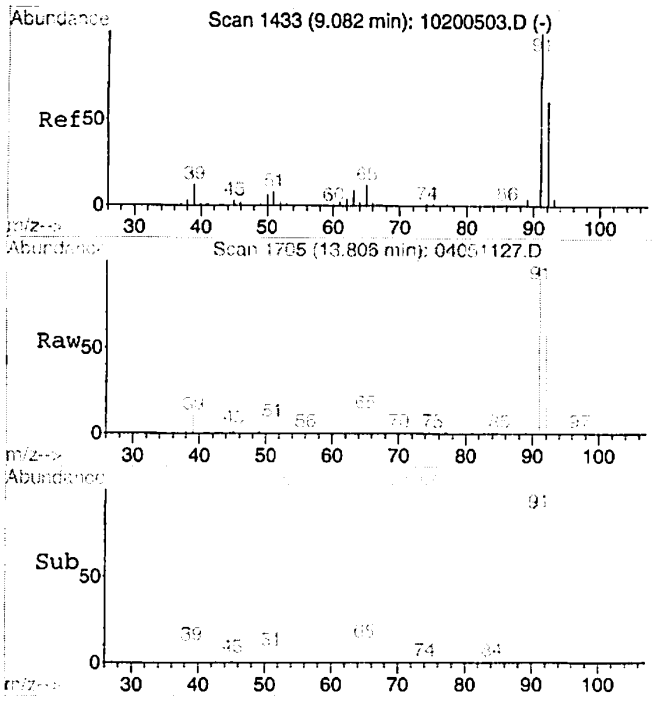


#34
Heptane
Concen: 1.66 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051127.D
Acq: 6 Apr 2011 4:18 am

Tgt Ion: 43 Resp: 183015

Ion	Ratio	Lower	Upper
43	100		
57	53.5	42.2	63.4
100	14.6	17.3	25.9#
71	53.7	48.3	72.5

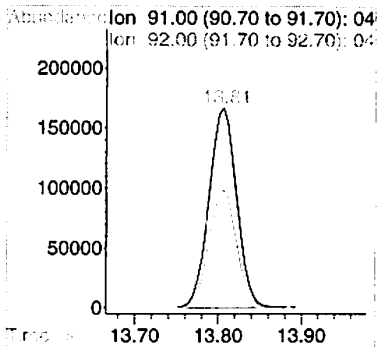




#41
Toluene
Concen: 2.25 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051127.D
Acq: 6 Apr 2011 4:18 am

Tgt Ion: 91 Resp: 386225

Ion	Ratio	Lower	Upper
91	100		
92	59.2	40.5	80.5
65	11.4	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051127.D
Acq On : 6 Apr 2011 4:18 am
Sample : 1103609-001A
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 4
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.344	60	87	127	rBV	346808	1933428	38.21%	4.114%
2	6.311	259	272	273	rBV2	32131	72352	1.43%	0.154%
3	7.190	426	440	455	rBV2	214286	720597	14.24%	1.533%
4	7.561	497	511	527	rVB2	237475	731158	14.45%	1.556%
5	8.178	617	629	640	rBV5	34563	117465	2.32%	0.250%
6	8.769	725	742	761	rBV2	644998	2083283	41.18%	4.433%
7	8.926	761	772	785	rVB2	90243	256038	5.06%	0.545%
8	9.088	790	803	821	rBV	310931	884299	17.48%	1.882%
9	9.392	849	861	878	rBB	549805	1404132	27.75%	2.988%
10	9.915	952	961	968	rBV3	23314	61709	1.22%	0.131%
11	10.004	968	978	994	rVB	302487	812949	16.07%	1.730%
12	10.213	1007	1018	1037	rBV	434600	1175922	23.24%	2.502%
13	10.762	1112	1123	1144	rVV2	1302985	3842824	75.95%	8.178%
14	10.956	1148	1160	1167	rVV	574036	1489624	29.44%	3.170%
15	11.034	1167	1175	1191	rVB2	790445	2036037	40.24%	4.333%
16	11.207	1199	1208	1218	rBV2	72516	190757	3.77%	0.406%
17	11.358	1218	1237	1250	rVV	1777012	4964664	98.13%	10.565%
18	11.473	1250	1259	1263	rVV2	269161	694214	13.72%	1.477%
19	11.520	1263	1268	1285	rVB3	455577	1152924	22.79%	2.453%
20	11.866	1322	1334	1352	rBV	2141762	5059377	100.00%	10.766%
21	12.200	1387	1398	1405	rBV2	101539	240245	4.75%	0.511%
22	12.284	1405	1414	1424	rVV	216704	558834	11.05%	1.189%
23	12.394	1425	1435	1460	rVV	663100	1750830	34.61%	3.726%
24	12.572	1460	1469	1474	rVV5	36345	96553	1.91%	0.205%
25	12.624	1474	1479	1488	rVB2	37072	84354	1.67%	0.180%
26	12.797	1501	1512	1527	rBV	368152	932032	18.42%	1.983%
27	12.938	1527	1539	1541	rVV2	123970	325032	6.42%	0.692%
28	12.990	1542	1549	1562	rVB	284186	789532	15.61%	1.680%
29	13.152	1570	1580	1596	rBV4	56704	184695	3.65%	0.393%
30	13.341	1607	1616	1633	rVB	148671	369474	7.30%	0.786%
31	13.571	1653	1660	1668	rBV2	79237	219577	4.34%	0.467%
32	13.675	1674	1680	1694	rVB2	69024	152551	3.02%	0.325%
33	13.806	1694	1705	1720	rVB	406032	975889	19.29%	2.077%
34	14.078	1748	1757	1769	rVB5	40073	126893	2.51%	0.270%
35	14.831	1890	1901	1907	rBV3	42665	107443	2.12%	0.229%
36	14.889	1907	1912	1918	rVV3	21815	54290	1.07%	0.116%
37	14.946	1918	1923	1931	rVV5	23837	55366	1.09%	0.118%
38	15.720	2059	2071	2082	rBV	2131697	4886964	96.59%	10.400%
39	15.804	2082	2087	2101	rVB2	40443	113910	2.25%	0.242%
40	15.956	2108	2116	2126	rVB	65523	152191	3.01%	0.324%
41	16.557	2222	2231	2242	rBB3	31690	85211	1.68%	0.181%
42	17.373	2376	2387	2406	rBV	2153930	4883814	96.53%	10.393%
43	17.865	2474	2481	2489	rVB2	35884	73285	1.45%	0.156%

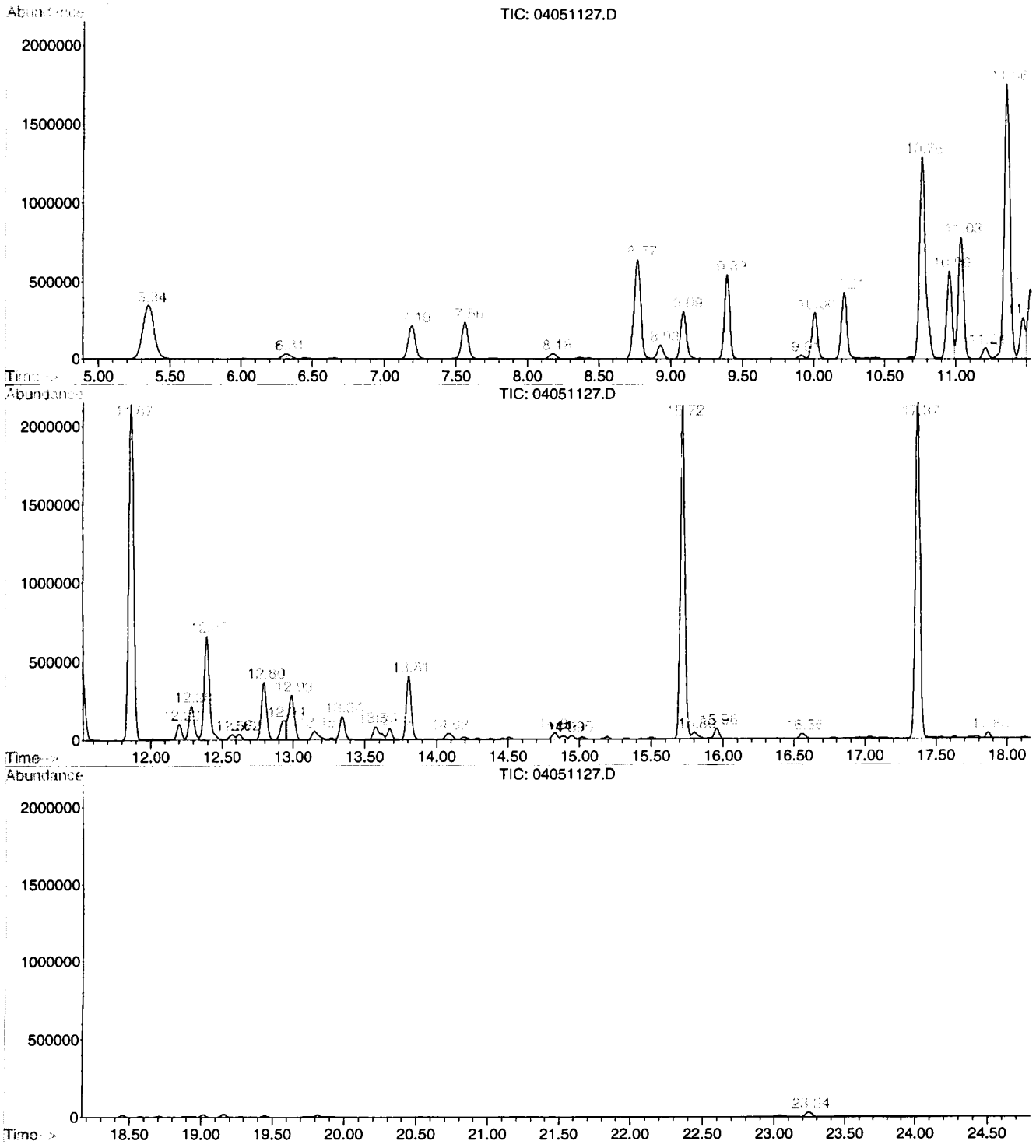
44	23.241	3499	3509	3520	rBV3	30912	89198	1.76%	0.190%

Sum of corrected areas: 46991916

04051127.D 031611V1.M Thu Apr 14 12:44:44 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051127.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 4:18 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-001A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 4
Quant File :031611V1.RES (RTE Integrator)



04051127.D 031611V1.M Thu Apr 14 12:44:45 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.34	6.29 ppbv	1933430	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	2.34 ppbv	720597	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol	72	C4H8O	000627-27-0	9
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	2.38 ppbv	731158	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	64
4	Butane, 2-methyl-	72	C5H12	000078-78-4	39
5	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	36

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2-methyl- $$ Isohexan Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	6.78 ppbv	2083280	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

****

Peak Number 5 Cyclopentane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	0.83 ppbv	256038	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	38
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	30
3	1-Pentene	70	C5H10	000109-67-1	12
4	1-Pentene	70	C5H10	000109-67-1	12
5	1-Pentene	70	C5H10	000109-67-1	9

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	2.88 ppbv	884299	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	78
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	2.64 ppbv	812949	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	50
5	2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	47

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	3.83 ppbv	1175920	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	50

****

Peak Number 9 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	4.85 ppbv	1489620	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

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Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	0.62 ppbv	190757	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	86
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	72
3	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	45
4	1-Hexene, 3-methyl- $$ 3-Methyl-1-h	98	C7H14	003404-61-3	38
5	1-Hexene, 3,3,5-trimethyl-	126	C9H18	013427-43-5	37

****

Peak Number 11 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	12.27 ppbv	4964660	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
5	Pentane, 2,2,4-trimethyl- $$ Isobut	114	C8H18	000540-84-1	64

****

Peak Number 12 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	0.59 ppbv	240245	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	70
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	35

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	1.38 ppbv	558834	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	70
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
4	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
5	Ether, heptyl hexyl	200	C13H28O	007289-40-9	50

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	4.33 ppbv	1750830	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 15 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	2.30 ppbv	932032	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	78
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Octane, 4,5-dimethyl- $$ 4,5-D Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	0.80 ppbv	325032	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4,5-dimethyl- $$ 4,5-Dimeth	142	C10H22	015869-96-2	72
2	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	72
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	59
4	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	56
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	53

****

Peak Number 17 Pentane, 2,3,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	1.95 ppbv	789532	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	53
2	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	50
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	40
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	40

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	0.46 ppbv	184695	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	72
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	64
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	59
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	45
5	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	43

Data File : C:\HPCHEM\1\DATA\040511\04051127.D Vial: 4
Acq On : 6 Apr 2011 4:18 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	0.91 ppbv	369474	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	74
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72

****

Peak Number 20 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.54 ppbv	219577	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	91
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 4:18 am
Data File: C:\HPCHEM\1\DATA\040511\04051127.D
Name: 1103609-001A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.34	6.3	ppbv	1933430	ISTD01	10.77	3842820	12.5
Butane, 2-methyl-	7.19	2.3	ppbv	720597	ISTD01	10.77	3842820	12.5
Pentane $$ n-Pentane	7.56	2.4	ppbv	731158	ISTD01	10.77	3842820	12.5
Pentane, 2-methyl- $	8.77	6.8	ppbv	2083280	ISTD01	10.77	3842820	12.5
Cyclopentane	8.93	0.8	ppbv	256038	ISTD01	10.77	3842820	12.5
Pentane, 3-methyl-	9.09	2.9	ppbv	884299	ISTD01	10.77	3842820	12.5
Pentane, 2,4-dimethy	10.00	2.6	ppbv	812949	ISTD01	10.77	3842820	12.5
Cyclopentane, methyl	10.21	3.8	ppbv	1175920	ISTD01	10.77	3842820	12.5
Pentane, 2,3-dimethy	10.96	4.8	ppbv	1489620	ISTD01	10.77	3842820	12.5
Cyclopentane, 1,1-di	11.21	0.6	ppbv	190757	ISTD01	10.77	3842820	12.5
Hexane, 2,2-dimethyl	11.36	12.3	ppbv	4964660	ISTD02	11.87	5059380	12.5
Hexane, 2,5-dimethyl	12.20	0.6	ppbv	240245	ISTD02	11.87	5059380	12.5
Hexane, 2,4-dimethyl	12.28	1.4	ppbv	558834	ISTD02	11.87	5059380	12.5
Cyclohexane, methyl-	12.39	4.3	ppbv	1750830	ISTD02	11.87	5059380	12.5
Pentane, 2,3,4-trime	12.80	2.3	ppbv	932032	ISTD02	11.87	5059380	12.5
Octane, 4,5-dimethyl	12.94	0.8	ppbv	325032	ISTD02	11.87	5059380	12.5
Pentane, 2,3,4-trime	12.99	2.0	ppbv	789532	ISTD02	11.87	5059380	12.5
Heptane, 3-methyl-	13.15	0.5	ppbv	184695	ISTD02	11.87	5059380	12.5
Hexane, 2,2,5-trimet	13.34	0.9	ppbv	369474	ISTD02	11.87	5059380	12.5
Cyclohexane, 1,3-dim	13.57	0.5	ppbv	219577	ISTD02	11.87	5059380	12.5

04051127.D 031611V1.M Thu Apr 14 12:44:46 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

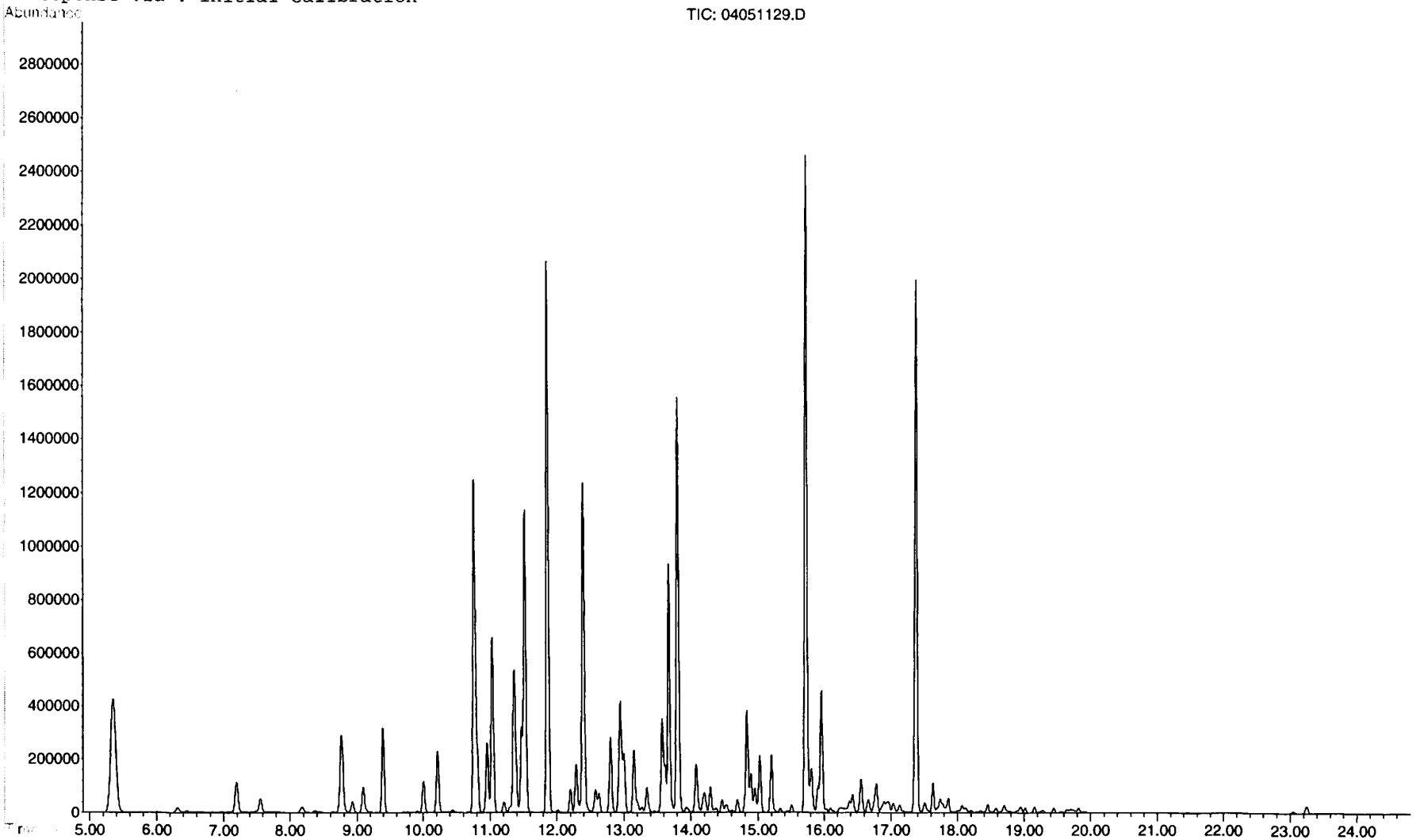
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	576030	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2135677	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1524842	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	951876	12.45	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.60%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	203111	2.41	ppbv		94
29) Cyclohexane	11.04	56	304725	3.58	ppbv	#	76
31) Benzene	11.48	78	255762	1.80	ppbv		94
34) Heptane	11.52	43	551408	5.35	ppbv	#	94
41) Toluene	13.80	91	1440022	8.95	ppbv		99
50) Ethylbenzene	15.80	91	141508	0.80	ppbv		94
51) m,p-Xylene	15.95	91	334387	2.44	ppbv		93
52) o-Xylene	16.55	91	96693	0.72	ppbv	#	88

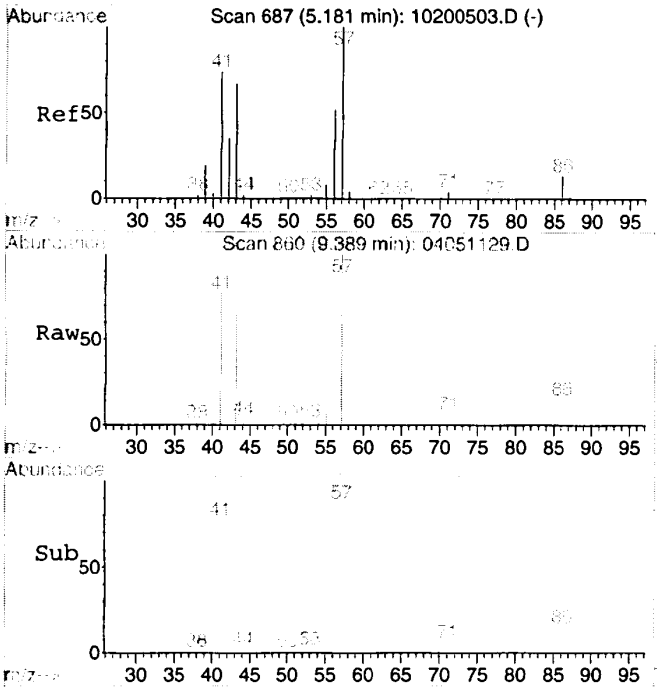
(#) = qualifier out of range (m) = manual integration
04051129.D 031611V1.M Thu Apr 14 12:44:53 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:05 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

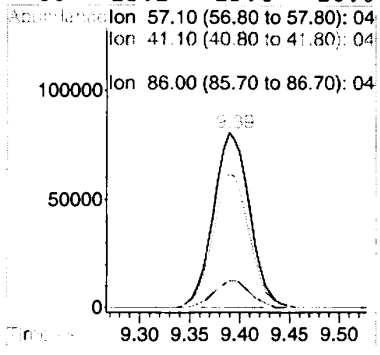


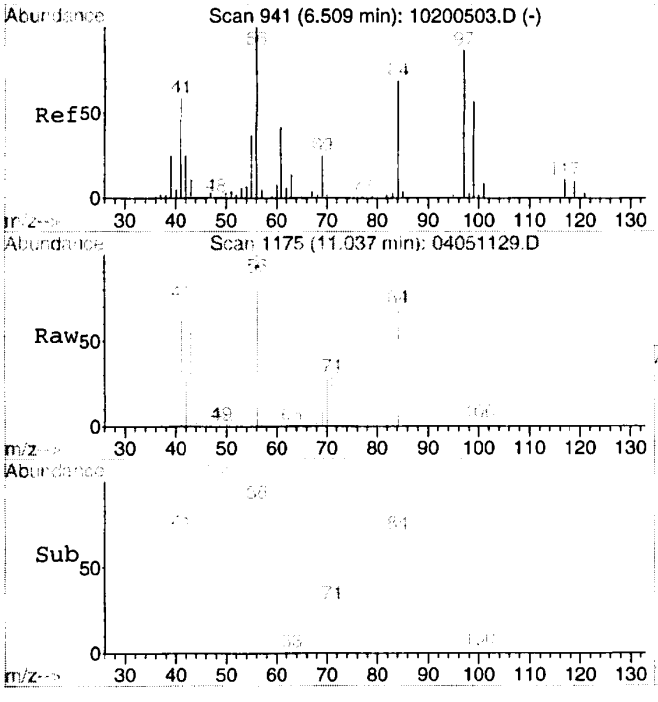


#20
n-Hexane
Concen: 2.41 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 57 Resp: 203111

Ion	Ratio	Lower	Upper
57	100		
41	77.1	57.2	85.8
53	2.4	1.8	2.8
86	15.2	13.4	20.0

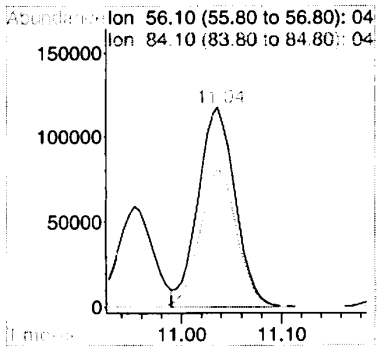


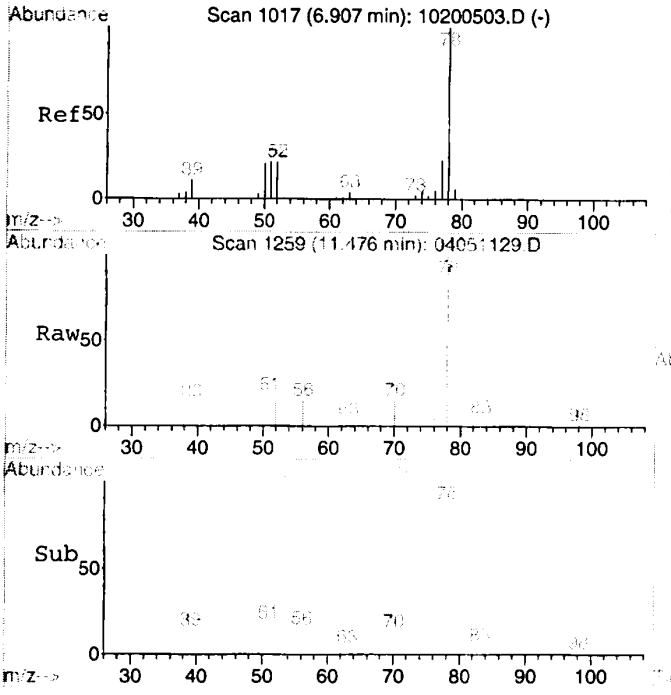


#29
Cyclohexane
Concen: 3.58 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 56 Resp: 304725

Ion	Ratio	Lower	Upper
56	100		
84	68.1	72.4	108.6#
41	72.9	43.8	65.8#

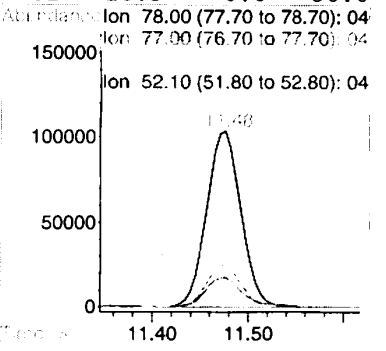


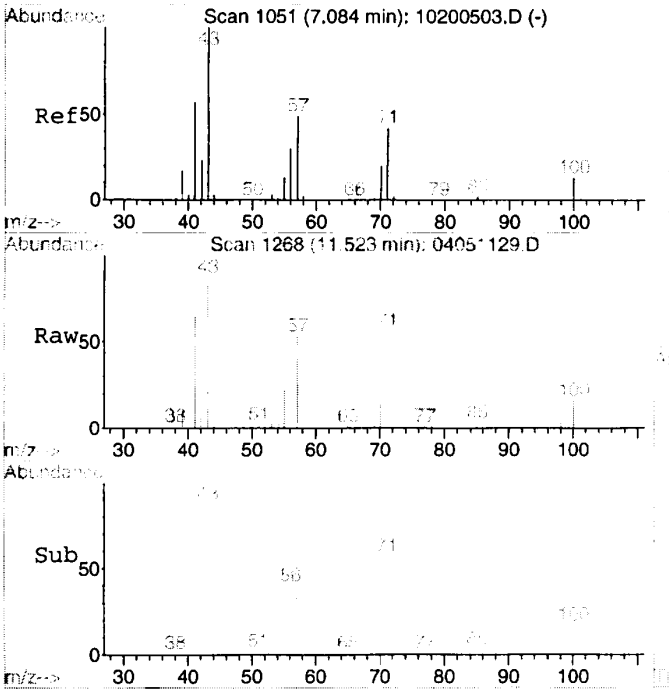


#31
Benzene
Concen: 1.80 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 78 Resp: 255762

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	21.2	0.0	36.1
52	18.3	0.0	36.0

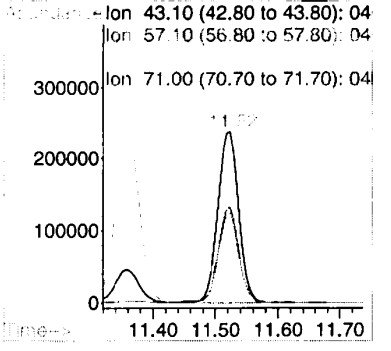


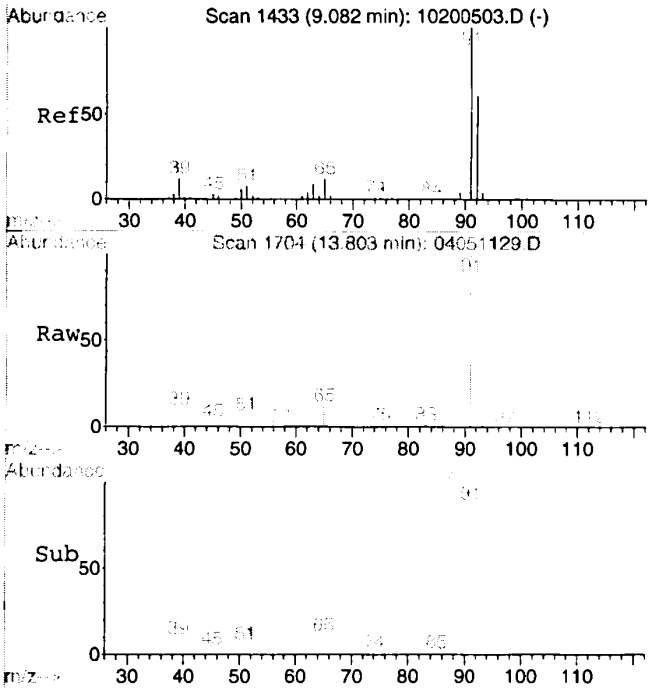


#34
Heptane
Concen: 5.35 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. 0.00 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 43 Resp: 551408

Ion	Ratio	Lower	Upper
43	100		
57	52.9	42.2	63.4
100	15.3	17.3	25.9#
71	54.4	48.3	72.5

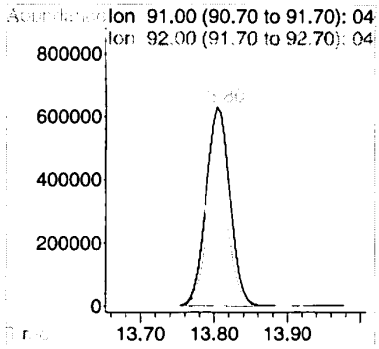


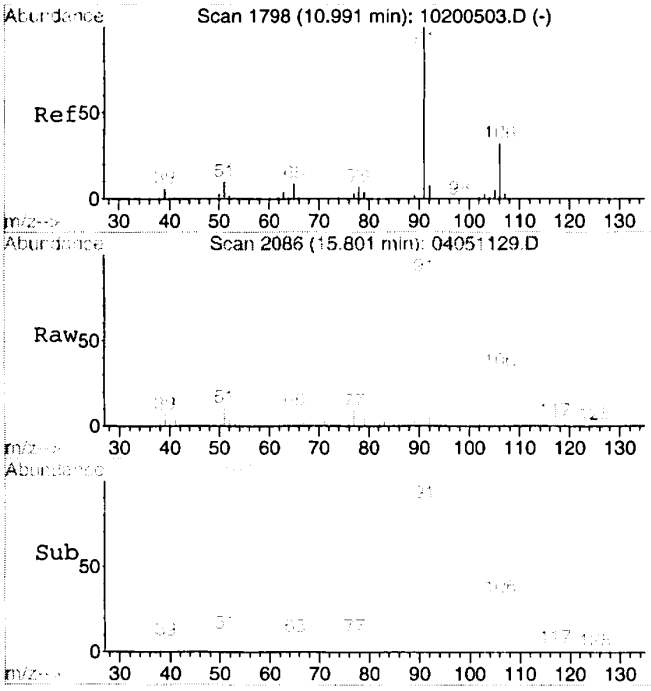


#41
Toluene
Concen: 8.95 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 91 Resp: 1440022

Ion	Ratio	Lower	Upper
91	100		
92	59.7	40.5	80.5
65	11.6	0.0	31.2

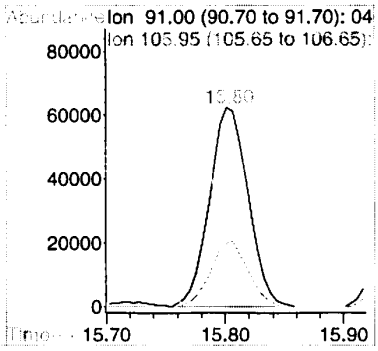


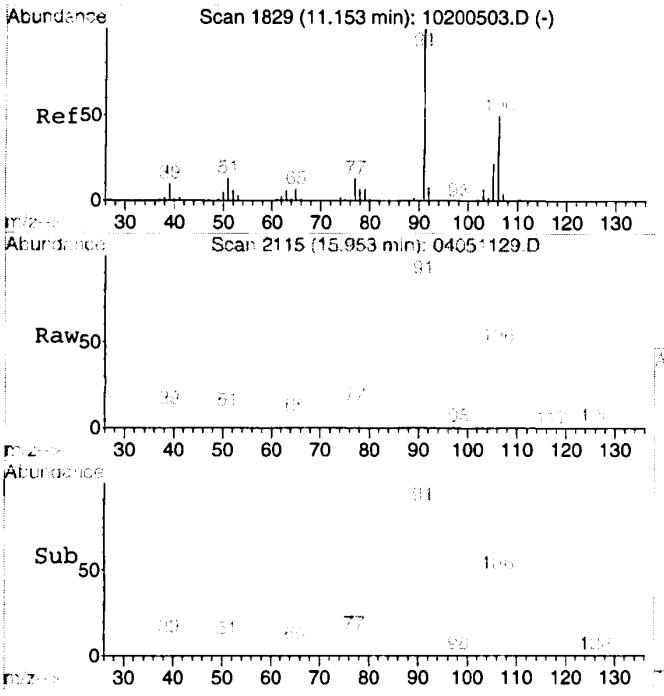


#50
Ethylbenzene
Concen: 0.80 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 91 Resp: 141508

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	10.3	0.0	33.1

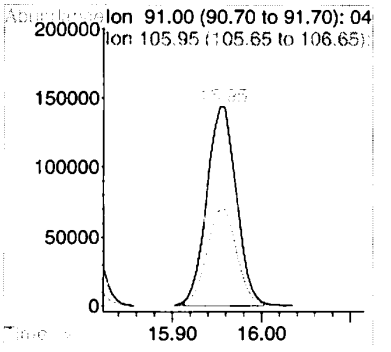


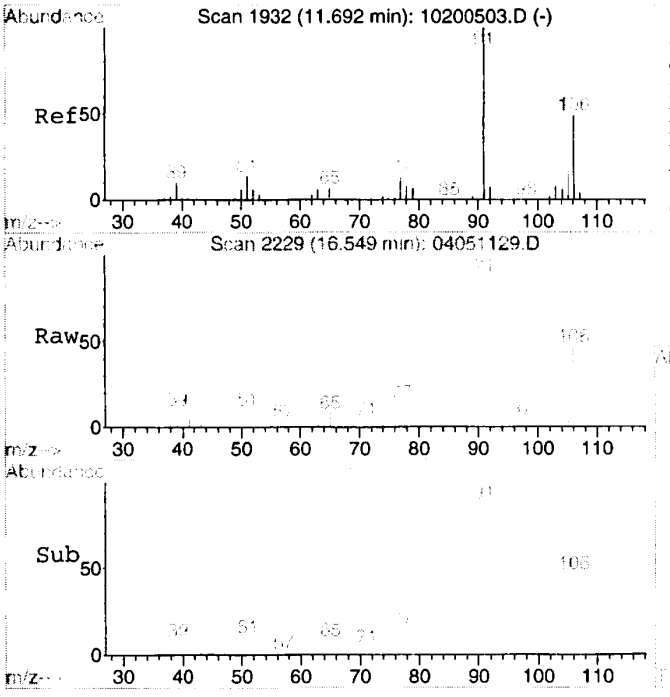


#51
m,p-Xylene
Concen: 2.44 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 91 Resp: 334387

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.4	0.0	29.6

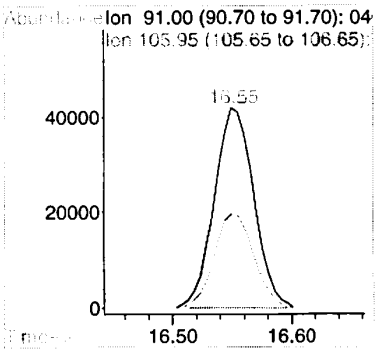




#52
o-Xylene
Concen: 0.72 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. 0.00 min
Lab File: 04051129.D
Acq: 6 Apr 2011 5:46 am

Tgt Ion: 91 Resp: 96693

Ion	Ratio	Lower	Upper
91	100		
106	46.9	41.0	61.6
51	12.3	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.352	63	88	131	rVB	426625	2364342	41.05%	4.367%
2	6.303	258	270	286	rBV4	20199	75371	1.31%	0.139%
3	7.193	425	440	458	rBV3	114308	383138	6.65%	0.708%
4	7.564	500	511	524	rVB2	52788	167238	2.90%	0.309%
5	8.176	618	628	639	rBV4	23515	79827	1.39%	0.147%
6	8.762	723	740	762	rBV2	290825	979289	17.00%	1.809%
7	8.929	762	772	784	rVB4	43415	120664	2.10%	0.223%
8	9.091	792	803	820	rBV3	97102	291561	5.06%	0.539%
9	9.389	850	860	873	rVB	320245	810496	14.07%	1.497%
10	10.006	968	978	991	rBB2	119029	311121	5.40%	0.575%
11	10.216	1006	1018	1030	rBV2	231856	613905	10.66%	1.134%
12	10.765	1111	1123	1142	rBV2	1251483	3593229	62.39%	6.637%
13	10.953	1148	1159	1166	rBV	262302	671070	11.65%	1.240%
14	11.037	1166	1175	1190	rVB2	661341	1704674	29.60%	3.149%
15	11.204	1199	1207	1217	rBV5	40787	108221	1.88%	0.200%
16	11.361	1217	1237	1249	rVV	537740	1685397	29.26%	3.113%
17	11.471	1249	1258	1261	rVV3	325008	734547	12.75%	1.357%
18	11.523	1261	1268	1282	rVB	1137342	2744674	47.65%	5.070%
19	11.863	1321	1333	1349	rBV	2071650	4764961	82.73%	8.802%
20	12.198	1388	1397	1405	rBV2	88059	205230	3.56%	0.379%
21	12.287	1405	1414	1423	rVV2	181321	483426	8.39%	0.893%
22	12.391	1424	1434	1454	rVV	1241160	3144089	54.59%	5.808%
23	12.574	1458	1469	1474	rVV6	88133	240210	4.17%	0.444%
24	12.621	1474	1478	1488	rVB	73952	167060	2.90%	0.309%
25	12.799	1500	1512	1526	rBV2	284220	726775	12.62%	1.342%
26	12.946	1526	1540	1546	rBV4	419775	1229569	21.35%	2.271%
27	13.150	1568	1579	1596	rBV2	234845	693018	12.03%	1.280%
28	13.343	1607	1616	1631	rVB	95937	255135	4.43%	0.471%
29	13.573	1643	1660	1666	rBV	354700	944954	16.41%	1.745%
30	13.673	1672	1679	1693	rVB	924182	2000924	34.74%	3.696%
31	13.803	1693	1704	1721	rVB	1557903	3741210	64.96%	6.911%
32	13.929	1721	1728	1741	rVB7	18848	63004	1.09%	0.116%
33	14.075	1746	1756	1768	rBV3	180518	490388	8.51%	0.906%
34	14.201	1769	1780	1789	rBV5	67634	205183	3.56%	0.379%
35	14.285	1789	1796	1806	rVV2	92759	201216	3.49%	0.372%
36	14.462	1821	1830	1835	rBV	50921	111764	1.94%	0.206%
37	14.520	1835	1841	1850	rVB6	28263	76751	1.33%	0.142%
38	14.682	1865	1872	1885	rBB2	50556	120574	2.09%	0.223%
39	14.829	1885	1900	1907	rBV	384786	1013203	17.59%	1.872%
40	14.886	1907	1911	1917	rVV	147388	337085	5.85%	0.623%
41	14.949	1918	1923	1929	rVV4	92059	224337	3.90%	0.414%
42	15.022	1929	1937	1952	rVB2	215919	535479	9.30%	0.989%
43	15.195	1959	1970	1988	rBV	217618	518063	8.99%	0.957%

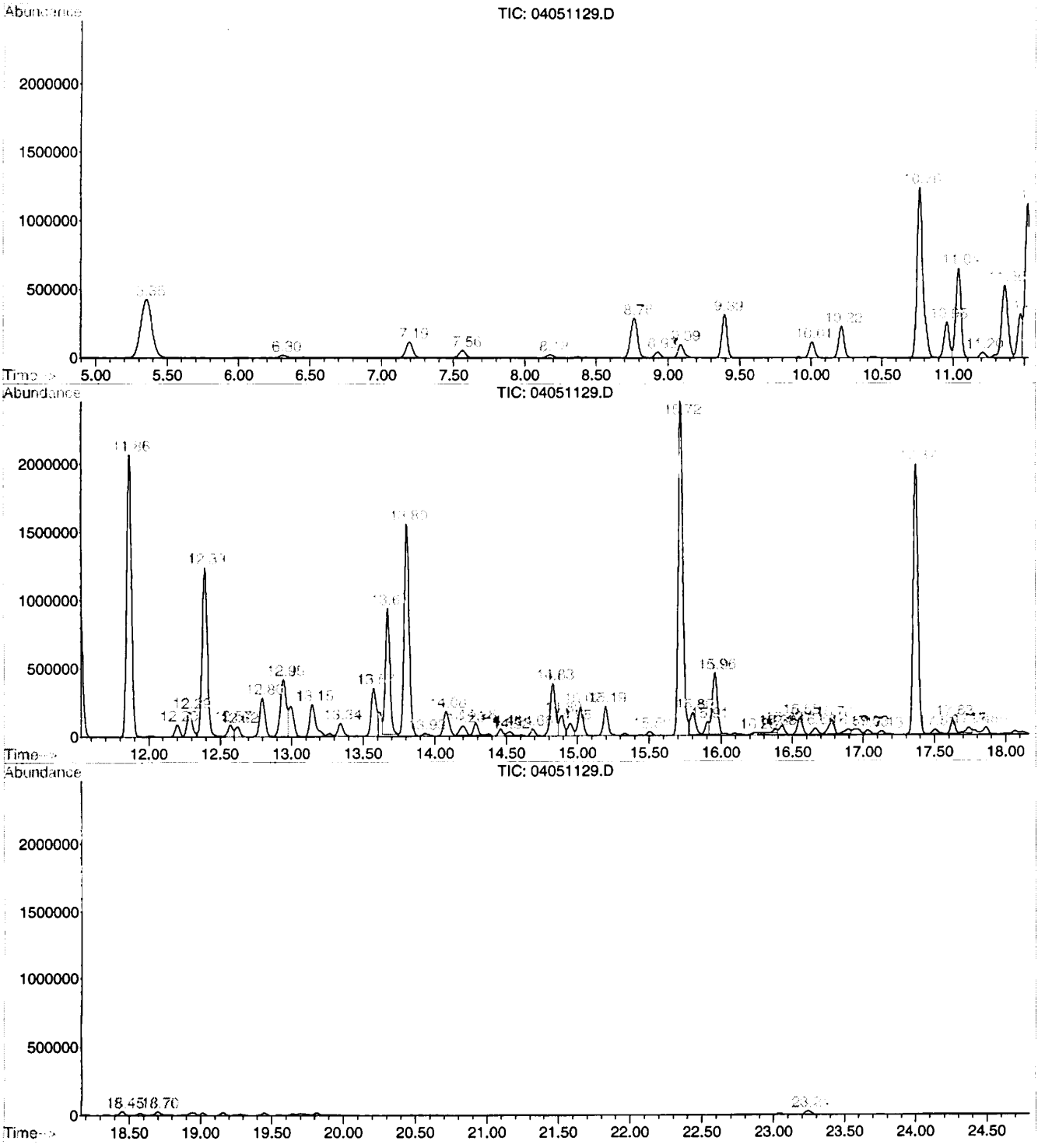
44	15.503	2021	2029	2038	rVB3	28182	66060	1.15%	0.122%
45	15.718	2057	2070	2081	rBV	2466050	5759582	100.00%	10.639%
46	15.801	2082	2086	2098	rVV	161646	392609	6.82%	0.725%
47	15.906	2098	2106	2108	rVV	94583	178138	3.09%	0.329%
48	15.958	2108	2116	2127	rVB	449113	1117701	19.41%	2.065%
49	16.246	2158	2171	2174	rBV4	19546	59553	1.03%	0.110%
50	16.382	2190	2197	2200	rBV2	30587	60271	1.05%	0.111%
51	16.429	2200	2206	2218	rVB	66848	166379	2.89%	0.307%
52	16.549	2218	2229	2240	rBV	124671	316888	5.50%	0.585%
53	16.659	2240	2250	2259	rBV3	48354	129741	2.25%	0.240%
54	16.779	2259	2273	2281	rVB6	104482	309713	5.38%	0.572%
55	16.889	2281	2294	2299	rBV7	37204	117170	2.03%	0.216%
56	17.030	2315	2321	2331	rVB6	30448	74027	1.29%	0.137%
57	17.130	2331	2340	2348	rBV4	23956	59014	1.02%	0.109%
58	17.370	2371	2386	2402	rBV	1997085	4579106	79.50%	8.458%
59	17.506	2404	2412	2426	rVB5	33912	89541	1.55%	0.165%
60	17.627	2426	2435	2443	rBV2	108144	232093	4.03%	0.429%
61	17.742	2443	2457	2461	rBV4	43275	119657	2.08%	0.221%
62	17.862	2471	2480	2489	rVB4	53969	140670	2.44%	0.260%
63	18.453	2580	2593	2602	rBV	31408	79708	1.38%	0.147%
64	18.699	2628	2640	2652	rBV8	26186	76881	1.33%	0.142%
65	23.244	3495	3509	3520	rVB4	27177	80525	1.40%	0.149%

Sum of corrected areas: 54137399

04051129.D 031611V1.M Thu Apr 14 12:44:58 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051129.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 5:46 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-006A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 7
Quant File :031611V1.RES (RTE Integrator)



04051129.D 031611V1.M Thu Apr 14 12:44:58 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	8.22 ppbv	2364340	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	1.33 ppbv	383138	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol	72	C4H8O	000627-27-0	47
5	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	38

****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	3.41 ppbv	979289	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	78
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	1.01 ppbv	291561	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 5 Pentane, 2,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	1.08 ppbv	311121	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	83
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	72
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	2.14 ppbv	613905	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	53

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	2.33 ppbv	671070	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	68

****

Peak Number 8 Pentane, 2,2,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	4.42 ppbv	1685400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	64

****

Peak Number 9 Hexane, 2,4-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	1.27 ppbv	483426	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	68
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	45
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43
5	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	42

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	8.25 ppbv	3144090	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 11 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	1.91 ppbv	726775	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	59
2	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	53
3	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	50
4	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	50
5	Cyclopentane, 1,2,3-trimethyl-, (1.	112	C8H16	002613-69-6	47

****

Peak Number 12 Heptane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	3.23 ppbv	1229570	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	80
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	72
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.82 ppbv	693018	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	53
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53

****

Peak Number 14 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	2.48 ppbv	944954	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 15 Octane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	5.25 ppbv	2000920	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Octane	114	C8H18	000111-65-9	68

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	1.06 ppbv	490388	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	93
3	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	90
4	Cyclohexane, 1,4-dimethyl-, cis- $$	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 17 Cyclohexane, ethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	2.20 ppbv	1013200	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	81

****

Peak Number 18 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	0.73 ppbv	337085	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	36
2	Cyclopentane, 1-butyl-2-ethyl-	154	C11H22	072993-32-9	35
3	Cyclohexane, 1-ethyl-2,4-dimethyl-	140	C10H20	061142-69-6	23
4	Cyclohexane, 1,3,5-trimethyl-, (1.a	126	C9H18	001795-26-2	17
5	Cyclohexane, 1-ethyl-1,4-dimethyl-,	140	C10H20	062238-32-8	12

Data File : C:\HPCHEM\1\DATA\040511\04051129.D Vial: 7
Acq On : 6 Apr 2011 5:46 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane, 4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	1.16 ppbv	535479	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	74
2	Octane	114	C8H18	000111-65-9	64
3	Octane, 2-methyl-	128	C9H20	003221-61-2	59
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	59
5	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	59

****

Peak Number 20 Octane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	1.12 ppbv	518063	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	58
2	Heptane, 2,5-dimethyl- $$ 2,5-Dimet	128	C9H20	002216-30-0	49
3	Octane, 3-methyl- $$ 3-Methyloctane	128	C9H20	002216-33-3	47
4	Hexane, 3-ethyl-4-methyl- $$ 3-Ethy	128	C9H20	003074-77-9	43
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	43

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 5:46 am
Data File: C:\HPCHEM\1\DATA\040511\04051129.D
Name: 1103609-006A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	8.2	ppbv	2364340	ISTD01	10.76	3593230	12.5
Butane, 2-methyl-	7.19	1.3	ppbv	383138	ISTD01	10.76	3593230	12.5
Pentane, 2-methyl-	8.76	3.4	ppbv	979289	ISTD01	10.76	3593230	12.5
Pentane, 3-methyl-	9.09	1.0	ppbv	291561	ISTD01	10.76	3593230	12.5
Pentane, 2,4-dimethy	10.01	1.1	ppbv	311121	ISTD01	10.76	3593230	12.5
Cyclopentane, methyl	10.22	2.1	ppbv	613905	ISTD01	10.76	3593230	12.5
Pentane, 2,3-dimethy	10.95	2.3	ppbv	671070	ISTD01	10.76	3593230	12.5
Pentane, 2,2,4-trime	11.36	4.4	ppbv	1685400	ISTD02	11.86	4764960	12.5
Hexane, 2,4-dimethyl	12.29	1.3	ppbv	483426	ISTD02	11.86	4764960	12.5
Cyclohexane, methyl-	12.39	8.2	ppbv	3144090	ISTD02	11.86	4764960	12.5
Pentane, 2,3,4-trime	12.80	1.9	ppbv	726775	ISTD02	11.86	4764960	12.5
Heptane, 2-methyl-	12.95	3.2	ppbv	1229570	ISTD02	11.86	4764960	12.5
Heptane, 3-methyl-	13.15	1.8	ppbv	693018	ISTD02	11.86	4764960	12.5
Cyclohexane, 1,3-dim	13.57	2.5	ppbv	944954	ISTD02	11.86	4764960	12.5
Octane	13.67	5.2	ppbv	2000920	ISTD02	11.86	4764960	12.5
Cyclohexane, 1,2-dim	14.08	1.1	ppbv	490388	ISTD03	15.72	5759580	12.5
Cyclohexane, ethyl-	14.83	2.2	ppbv	1013200	ISTD03	15.72	5759580	12.5
Cyclohexane, 1,1,3-t	14.89	0.7	ppbv	337085	ISTD03	15.72	5759580	12.5
Octane, 4-methyl-	15.02	1.2	ppbv	535479	ISTD03	15.72	5759580	12.5
Octane, 3-methyl-	15.19	1.1	ppbv	518063	ISTD03	15.72	5759580	12.5

04051129.D 031611V1.M Thu Apr 14 12:44:59 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

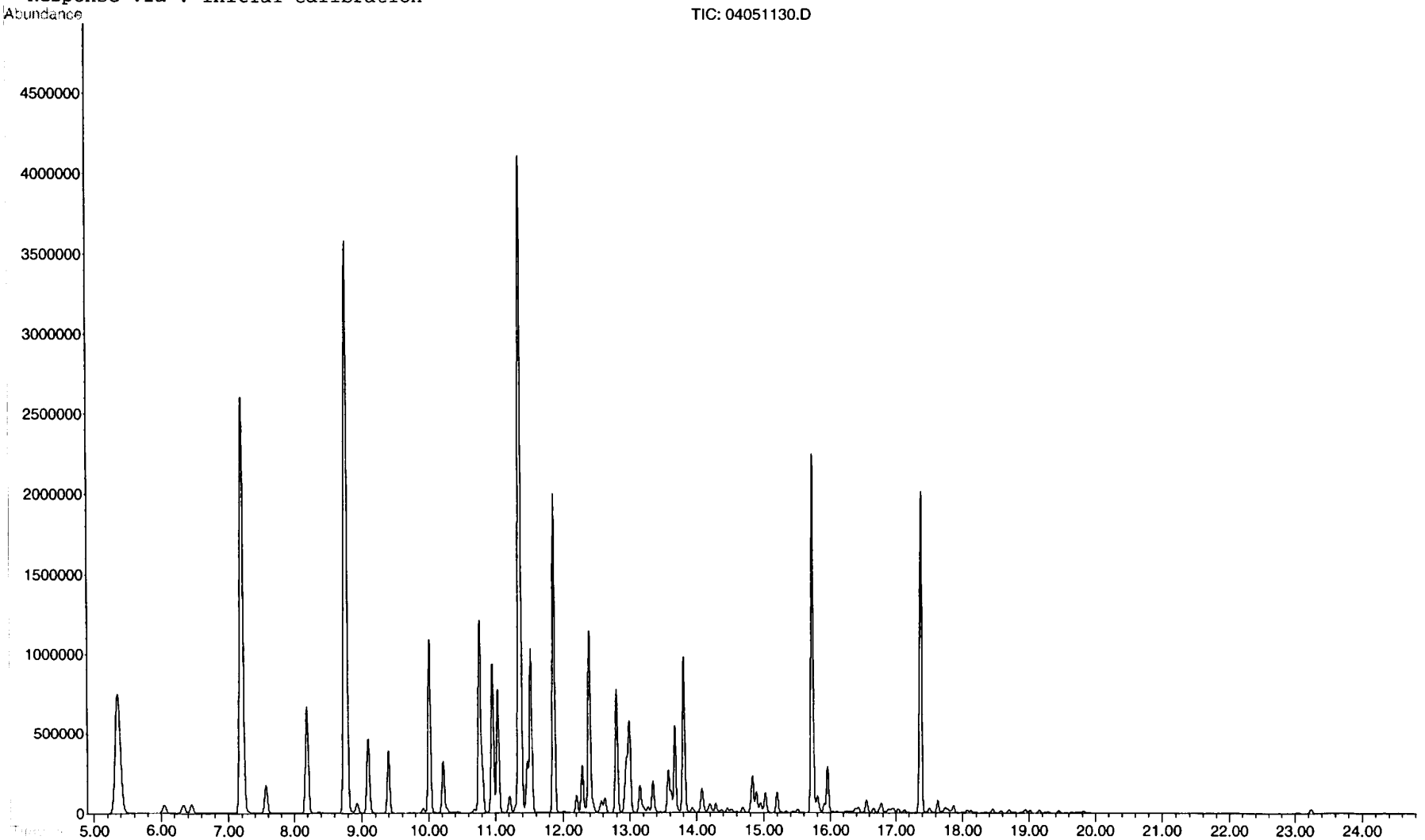
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	556894	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2071074	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1505627	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	945750	12.53	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.24%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	247080	3.04	ppbv		94
29) Cyclohexane	11.04	56	354558	4.31	ppbv	#	76
31) Benzene	11.48	78	231376	1.68	ppbv		95
34) Heptane	11.52	43	458968	4.59	ppbv	#	93
41) Toluene	13.80	91	916676	5.87	ppbv		98
50) Ethylbenzene	15.80	91	92389	0.53	ppbv		95
51) m,p-Xylene	15.96	91	213138	1.57	ppbv		93

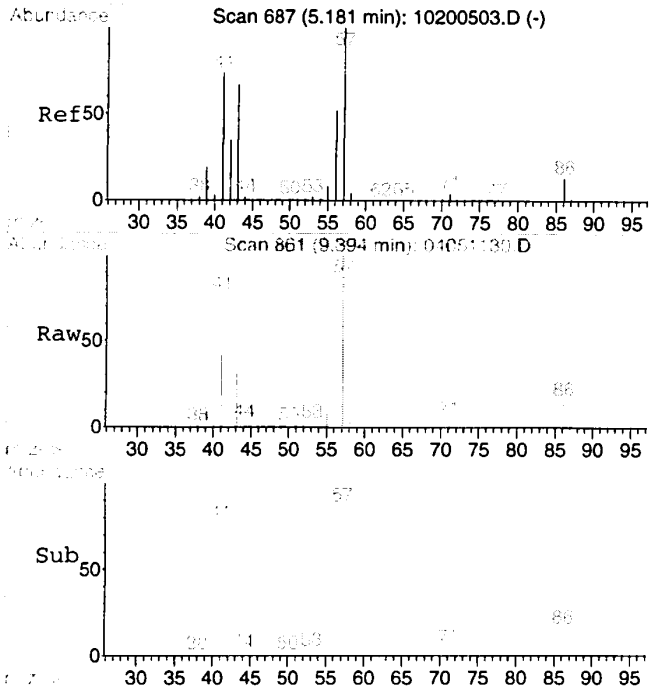
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:05 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

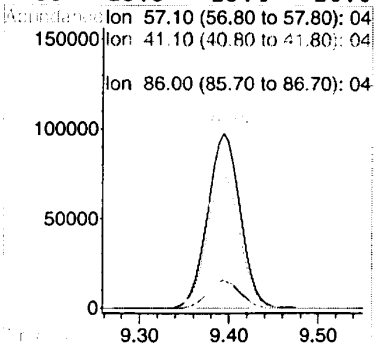


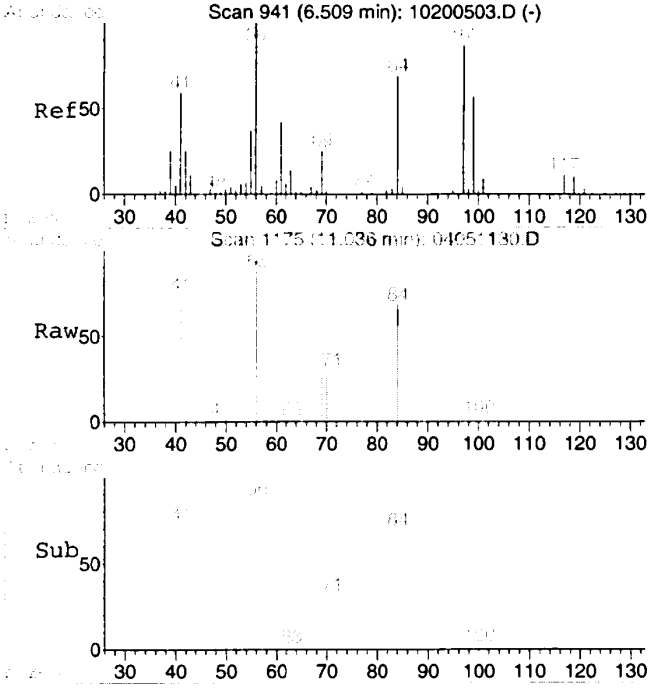


#20
n-Hexane
Concen: 3.04 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 57 Resp: 247080

Ion	Ratio	Lower	Upper
57	100		
41	77.3	57.2	85.8
53	2.3	1.8	2.8
86	15.3	13.4	20.0

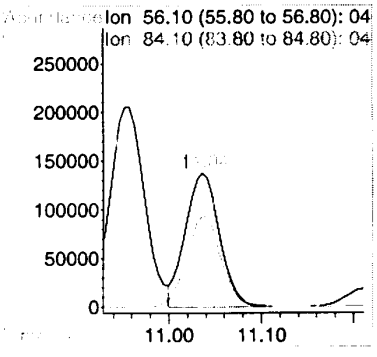


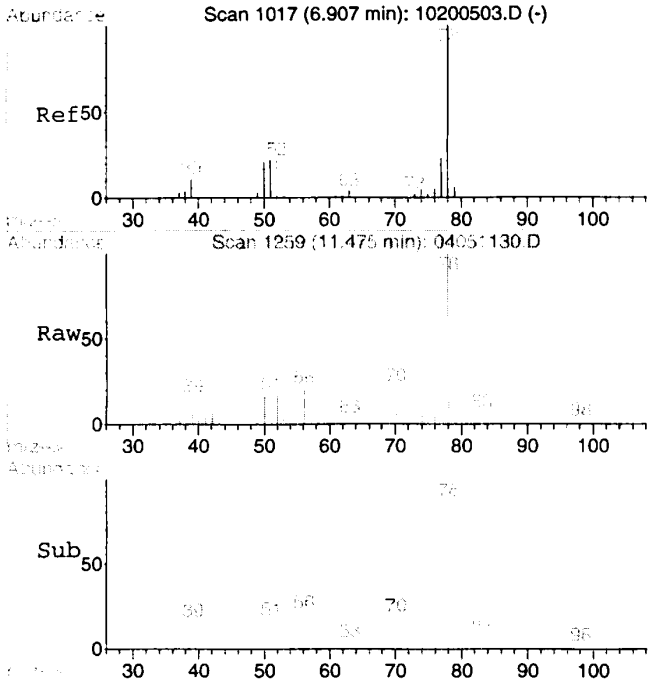


#29
Cyclohexane
Concen: 4.31 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 56 Resp: 354558

Ion	Ratio	Lower	Upper
56	100		
84	68.7	72.4	108.6#
41	73.2	43.8	65.8#

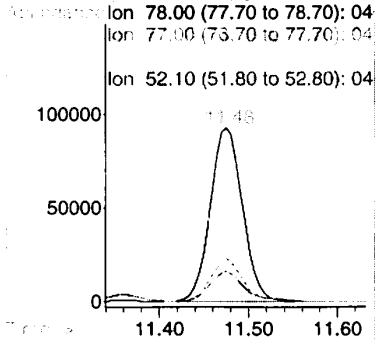


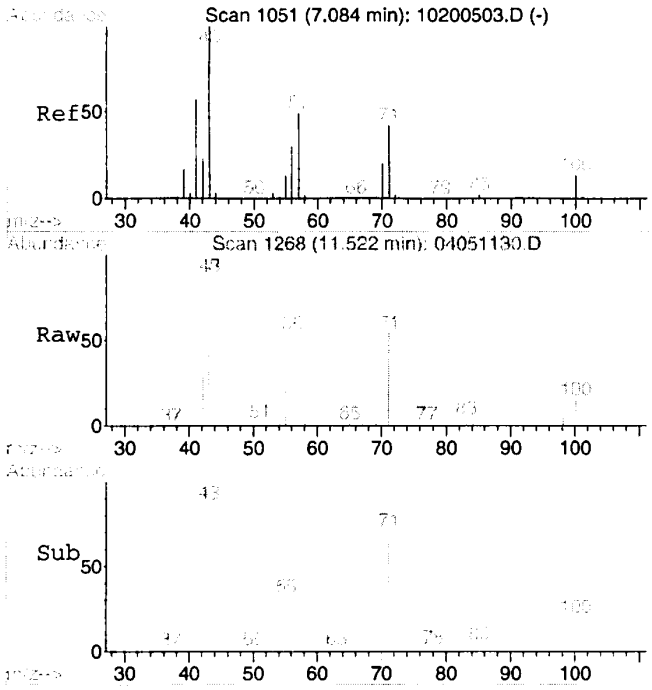


#31
Benzene
Concen: 1.68 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 78 Resp: 231376

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	19.1	0.0	36.1
52	18.6	0.0	36.0

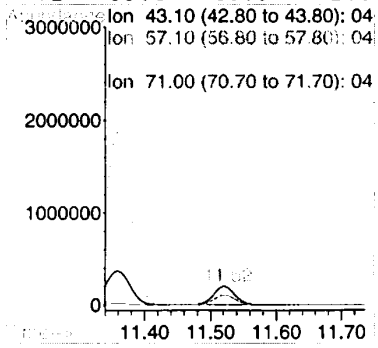


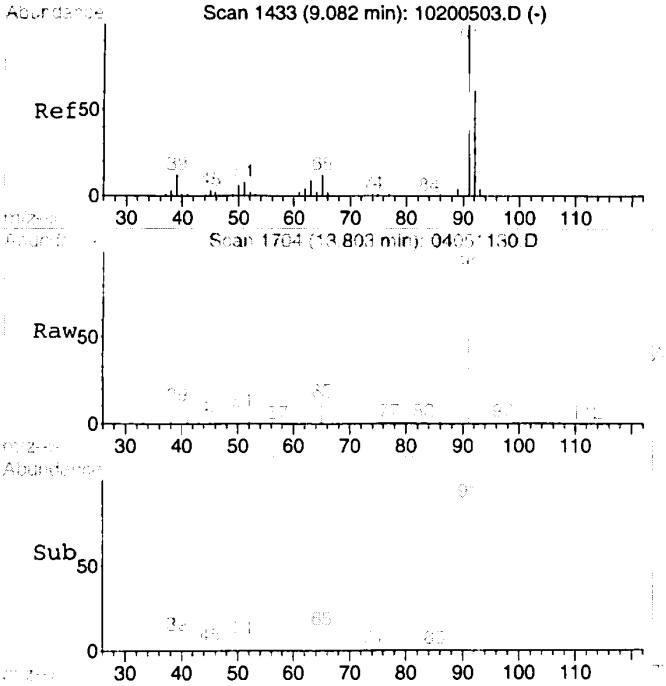


#34
Heptane
Concen: 4.59 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 43 Resp: 458968

Ion	Ratio	Lower	Upper
43	100		
57	54.3	42.2	63.4
100	14.9	17.3	25.9#
71	53.8	48.3	72.5

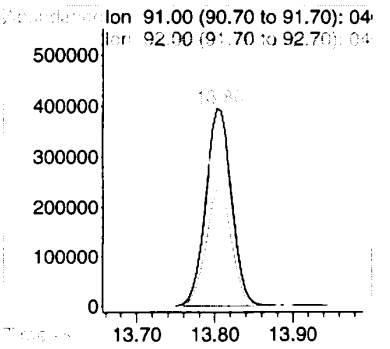


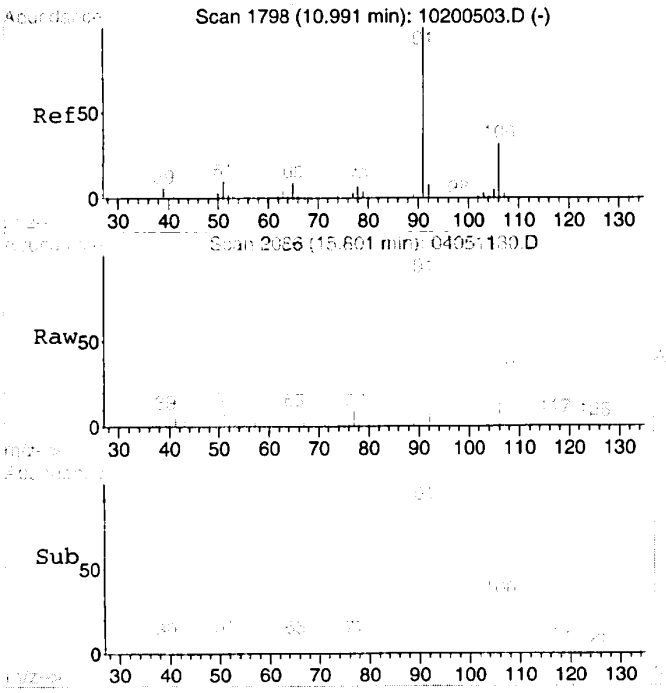


#41
Toluene
Concen: 5.87 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 91 Resp: 916676

Ion	Ratio	Lower	Upper
91	100		
92	59.1	40.5	80.5
65	11.5	0.0	31.2

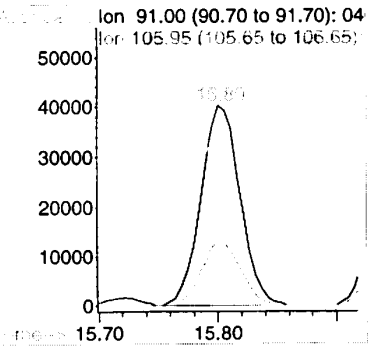


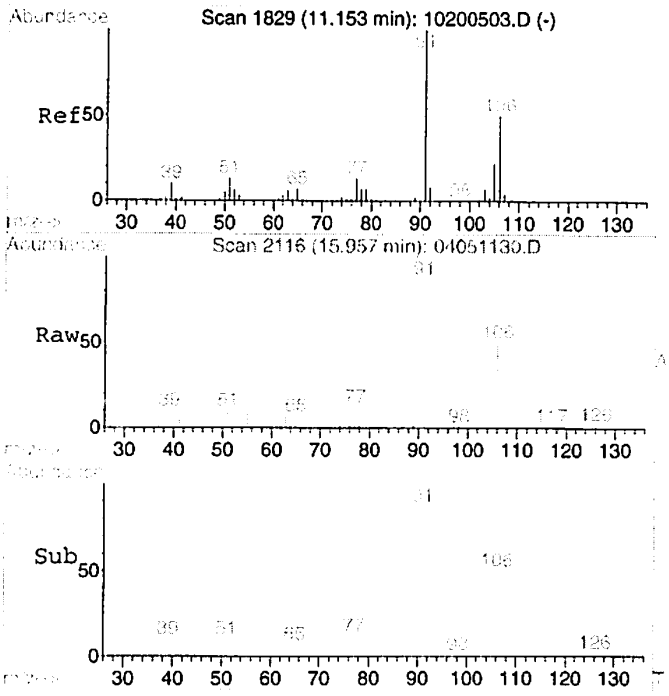


#50
Ethylbenzene
Concen: 0.53 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 91 Resp: 92389

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	11.0	0.0	33.1

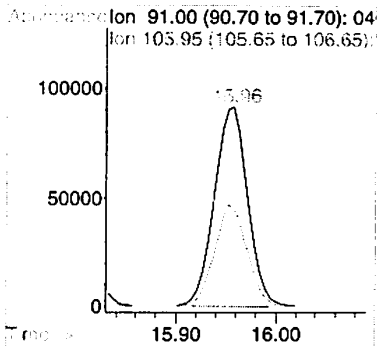




#51
m,p-Xylene
Concen: 1.57 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051130.D
Acq: 6 Apr 2011 6:31 am

Tgt Ion: 91 Resp: 213138

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.1	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.356	60	89	127	rBV	750576	4177692	35.91%	4.592%
2	6.046	206	221	237	rBB2	53440	212615	1.83%	0.234%
3	6.339	260	277	288	rBV3	53507	223695	1.92%	0.246%
4	6.454	288	299	314	rVB	57484	204734	1.76%	0.225%
5	7.192	422	440	470	rBV	2607438	9214708	79.20%	10.129%
6	7.568	499	512	531	rVB	174622	558728	4.80%	0.614%
7	8.185	615	630	653	rVB	672280	2165763	18.62%	2.381%
8	8.761	723	740	763	rBV	3586330	11571488	99.46%	12.720%
9	8.933	763	773	785	rVV3	64749	197521	1.70%	0.217%
10	9.090	788	803	820	rVB	466073	1324122	11.38%	1.456%
11	9.394	849	861	879	rBB	394994	992161	8.53%	1.091%
12	10.006	967	978	998	rVB	1094109	2914139	25.05%	3.203%
13	10.215	1005	1018	1040	rBV	326327	950695	8.17%	1.045%
14	10.764	1113	1123	1144	rVV2	1216128	3589337	30.85%	3.945%
15	10.957	1147	1160	1167	rVV	935747	2444678	21.01%	2.687%
16	11.036	1167	1175	1190	rVB2	777676	2000028	17.19%	2.198%
17	11.208	1196	1208	1217	rBV	106455	283384	2.44%	0.312%
18	11.360	1217	1237	1250	rVV	4116509	11634241	100.00%	12.789%
19	11.470	1250	1258	1261	rVV2	324026	721696	6.20%	0.793%
20	11.522	1261	1268	1283	rVB2	1032930	2606857	22.41%	2.866%
21	11.862	1322	1333	1352	rBV	2007954	4637006	39.86%	5.097%
22	12.197	1388	1397	1405	rBV	111319	268570	2.31%	0.295%
23	12.286	1405	1414	1423	rVV2	298907	768902	6.61%	0.845%
24	12.390	1424	1434	1457	rVV	1147780	3053053	26.24%	3.356%
25	12.574	1457	1469	1473	rVV5	77569	212269	1.82%	0.233%
26	12.626	1473	1479	1488	rVB	97248	241979	2.08%	0.266%
27	12.798	1499	1512	1526	rBV2	776026	1981071	17.03%	2.178%
28	12.950	1526	1541	1542	rVV2	352457	813393	6.99%	0.894%
29	12.992	1543	1549	1564	rVB2	578198	1582298	13.60%	1.739%
30	13.149	1569	1579	1595	rVV2	173032	549141	4.72%	0.604%
31	13.342	1608	1616	1631	rVB2	200433	527510	4.53%	0.580%
32	13.572	1644	1660	1666	rBV2	268435	725670	6.24%	0.798%
33	13.672	1672	1679	1693	rVB	543455	1208515	10.39%	1.328%
34	13.808	1693	1705	1721	rVB	981083	2462917	21.17%	2.707%
35	14.075	1741	1756	1768	rBV4	153144	448183	3.85%	0.493%
36	14.200	1769	1780	1789	rVV8	52078	164156	1.41%	0.180%
37	14.284	1789	1796	1805	rVV2	58444	131078	1.13%	0.144%
38	14.828	1887	1900	1906	rVV	234920	620482	5.33%	0.682%
39	14.885	1906	1911	1918	rVV2	135897	337476	2.90%	0.371%
40	14.948	1918	1923	1929	rVV3	64718	163056	1.40%	0.179%
41	15.021	1929	1937	1952	rVB3	128453	334594	2.88%	0.368%
42	15.194	1959	1970	1987	rBB	130334	328813	2.83%	0.361%
43	15.717	2059	2070	2081	rBV	2251886	5237255	45.02%	5.757%

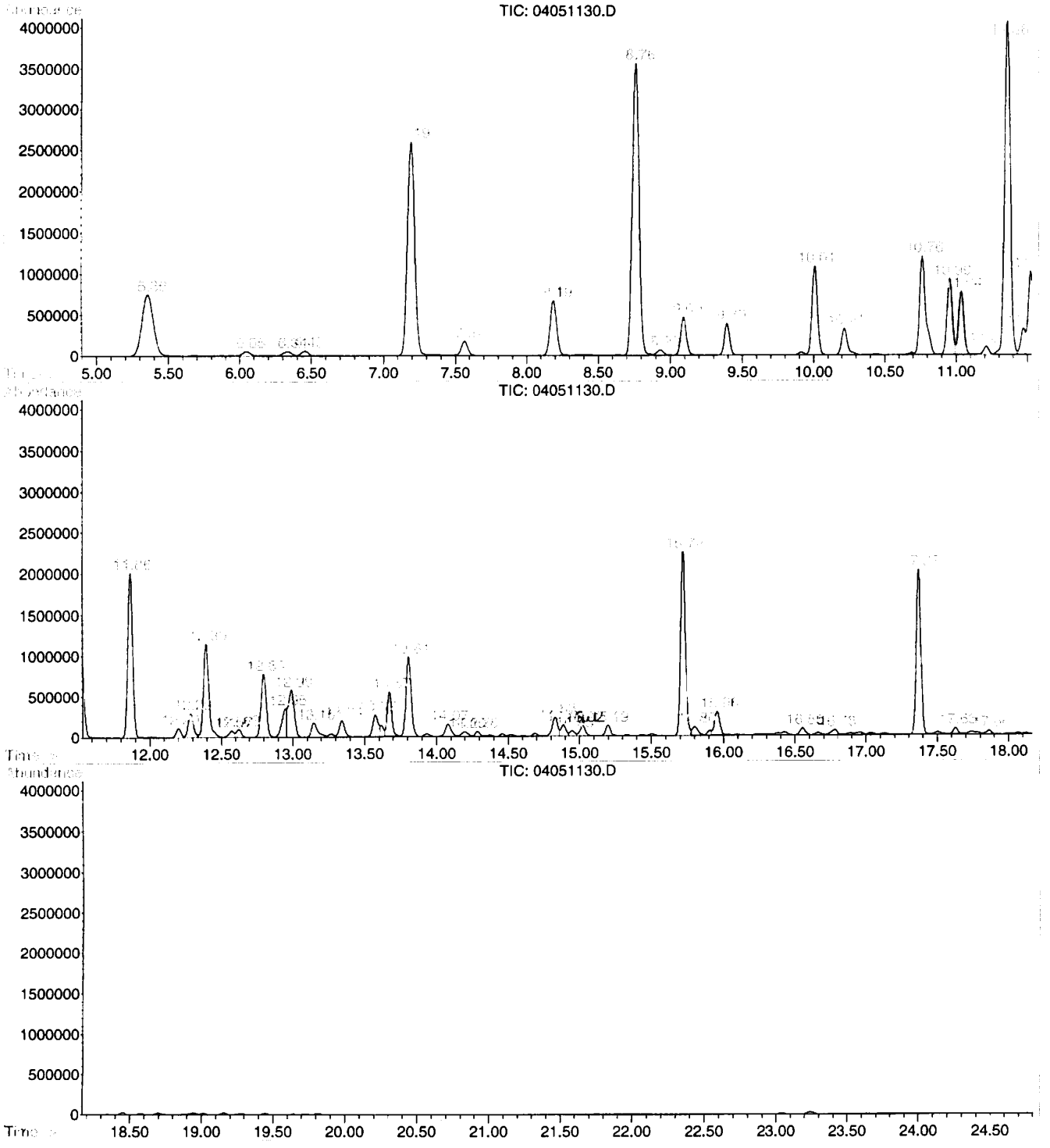
44	15.801	2082	2086	2099	rVV	107022	273205	2.35%	0.300%
45	15.957	2108	2116	2127	rVB	284426	704939	6.06%	0.775%
46	16.554	2218	2230	2241	rVB2	84474	219026	1.88%	0.241%
47	16.779	2260	2273	2282	rBV6	60359	178725	1.54%	0.196%
48	17.370	2373	2386	2400	rBV	2019374	4530205	38.94%	4.980%
49	17.626	2427	2435	2443	rBV2	78717	163658	1.41%	0.180%
50	17.861	2470	2480	2488	rVB5	46394	117863	1.01%	0.130%

Sum of corrected areas: 90973290

04051130.D 031611V1.M Thu Apr 14 12:45:10 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051130.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 6:31 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-007A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 8
Quant File :031611V1.RES (RTE Integrator)



04051130.D 031611V1.M Thu Apr 14 12:45:10 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	14.55 ppbv	4177690	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	32.09 ppbv	9214710	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9
5	1-Butene	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	1.95 ppbv	558728	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	64
4	Butane, 2-methyl-	72	C5H12	000078-78-4	45
5	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	7.54 ppbv	2165760	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 5 Butane, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	40.30 ppbv	11571500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	50

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	4.61 ppbv	1324120	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	86
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	56
5	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	10.15 ppbv	2914140	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	47

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	3.31 ppbv	950695	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	50

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	8.51 ppbv	2444680	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Butane, 2,2,3,3-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	31.36 ppbv	11634200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

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Peak Number 11 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	2.07 ppbv	768902	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	60
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
4	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	38
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	38

****

Peak Number 12 Cyclohexane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	8.23 ppbv	3053050	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Pentane, 2,3,4-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	5.34 ppbv	1981070	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	80
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	59

****

Peak Number 14 Heptane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	2.19 ppbv	813393	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	72
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	72
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	52

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	4.27 ppbv	1582300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	59
4	3-Buten-2-ol, 2-methyl-	86	C5H10O	000115-18-4	37
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	36

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.48 ppbv	549141	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	50

****

Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	1.42 ppbv	527510	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	74

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	1.96 ppbv	725670	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

Data File : C:\HPCHEM\1\DATA\040511\04051130.D Vial: 8
Acq On : 6 Apr 2011 6:31 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.26 ppbv	1208520	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.48 ppbv	620482	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	76

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 6:31 am
Data File: C:\HPCHEM\1\DATA\040511\04051130.D
Name: 1103609-007A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	14.5	ppbv	4177690	ISTD01	10.76	3589340	12.5
Butane, 2-methyl-	7.19	32.1	ppbv	9214710	ISTD01	10.76	3589340	12.5
Pentane $$ n-Pentane	7.57	1.9	ppbv	558728	ISTD01	10.76	3589340	12.5
Butane, 2,2-dimethyl	8.19	7.5	ppbv	2165760	ISTD01	10.76	3589340	12.5
Butane, 2,3-dimethyl	8.76	40.3	ppbv	11571500	ISTD01	10.76	3589340	12.5
Pentane, 3-methyl-	9.09	4.6	ppbv	1324120	ISTD01	10.76	3589340	12.5
Pentane, 2,4-dimethy	10.01	10.1	ppbv	2914140	ISTD01	10.76	3589340	12.5
Cyclopentane, methyl	10.21	3.3	ppbv	950695	ISTD01	10.76	3589340	12.5
Pentane, 2,3-dimethy	10.96	8.5	ppbv	2444680	ISTD01	10.76	3589340	12.5
Butane, 2,2,3,3-tetr	11.36	31.4	ppbv	11634200	ISTD02	11.86	4637010	12.5
Hexane, 2,4-dimethyl	12.29	2.1	ppbv	768902	ISTD02	11.86	4637010	12.5
Cyclohexane, methyl-	12.39	8.2	ppbv	3053050	ISTD02	11.86	4637010	12.5
Pentane, 2,3,4-trime	12.80	5.3	ppbv	1981070	ISTD02	11.86	4637010	12.5
Heptane, 2-methyl-	12.95	2.2	ppbv	813393	ISTD02	11.86	4637010	12.5
Pentane, 2,3,4-trime	12.99	4.3	ppbv	1582300	ISTD02	11.86	4637010	12.5
Heptane, 3-methyl-	13.15	1.5	ppbv	549141	ISTD02	11.86	4637010	12.5
Hexane, 2,2,5-trimet	13.34	1.4	ppbv	527510	ISTD02	11.86	4637010	12.5
Cyclohexane, 1,3-dim	13.57	2.0	ppbv	725670	ISTD02	11.86	4637010	12.5
Octane	13.67	3.3	ppbv	1208520	ISTD02	11.86	4637010	12.5
Cyclohexane, ethyl-	14.83	1.5	ppbv	620482	ISTD03	15.72	5237260	12.5

04051130.D 031611V1.M Thu Apr 14 12:45:11 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	531030	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1897326	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1522474	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	961292	12.60	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.80%				
Target Compounds							Qvalue
2) Propylene*	5.67	41	123188	3.09	ppbv	#	74
20) n-Hexane	9.39	57	4821960	62.18	ppbv		99
29) Cyclohexane	11.04	56	4723859	60.16	ppbv		84
31) Benzene	11.48	78	6330991	48.23	ppbv		95
34) Heptane	11.52	43	1918903	20.94	ppbv	#	92
41) Toluene	13.81	91	3213514	22.47	ppbv		99
50) Ethylbenzene*	15.80	91	166668	0.94	ppbv		94
51) m,p-Xylene*	15.96	91	354028	2.58	ppbv		92
52) o-Xylene *	16.55	91	142467	1.07	ppbv	#	88

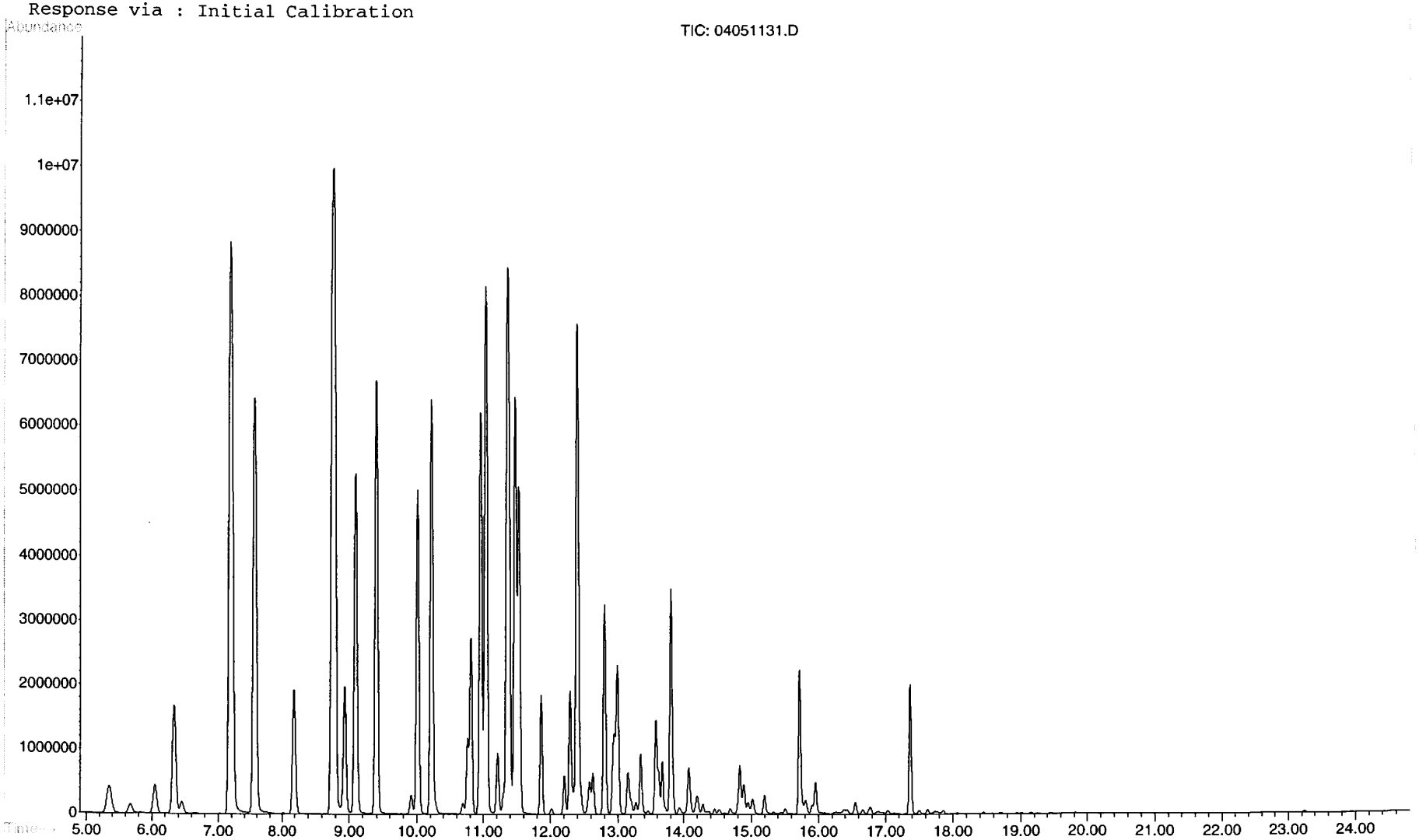
* = reported only 4/15/11 AP

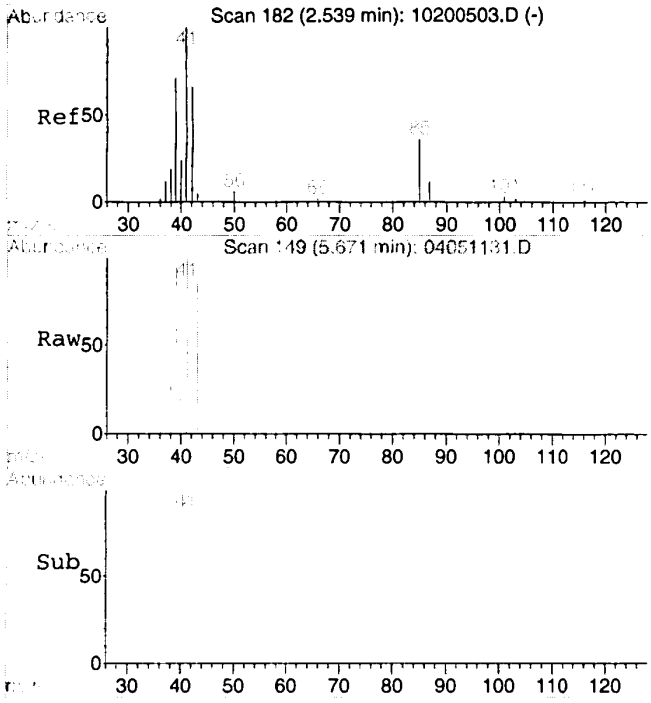
(#) = qualifier out of range (m) = manual integration
04051131.D 031611V1.M Thu Apr 14 12:45:17 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:05 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

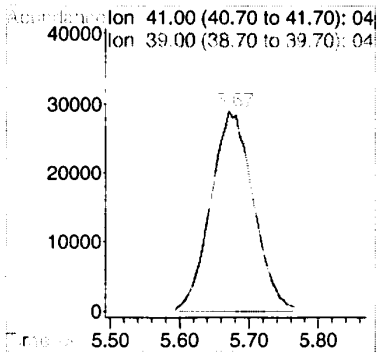


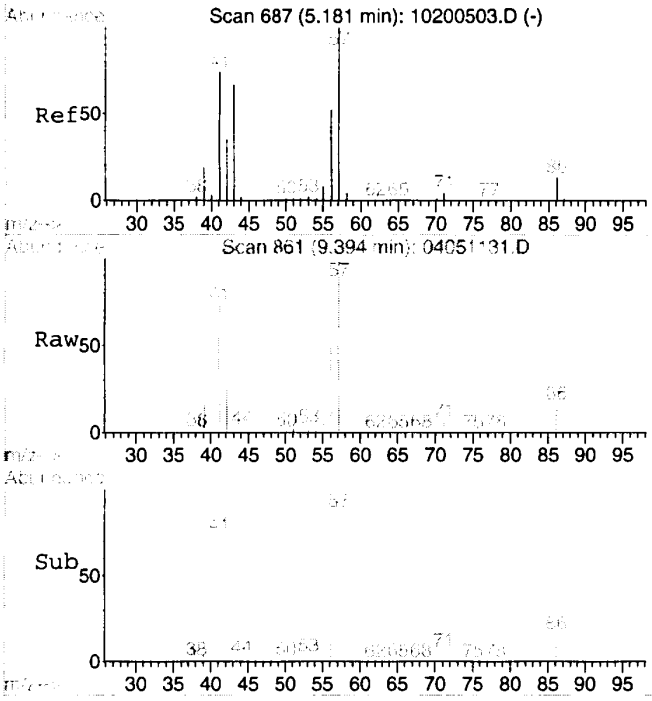


#2
Propylene
Concen: 3.09 ppbv
RT: 5.67 min Scan# 149
Delta R.T. -0.01 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 41 Resp: 123188

Ion	Ratio	Lower	Upper
41	100		
39	98.5	57.6	86.4#
42	51.5	54.0	81.0#

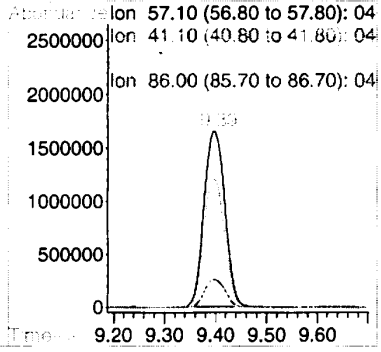


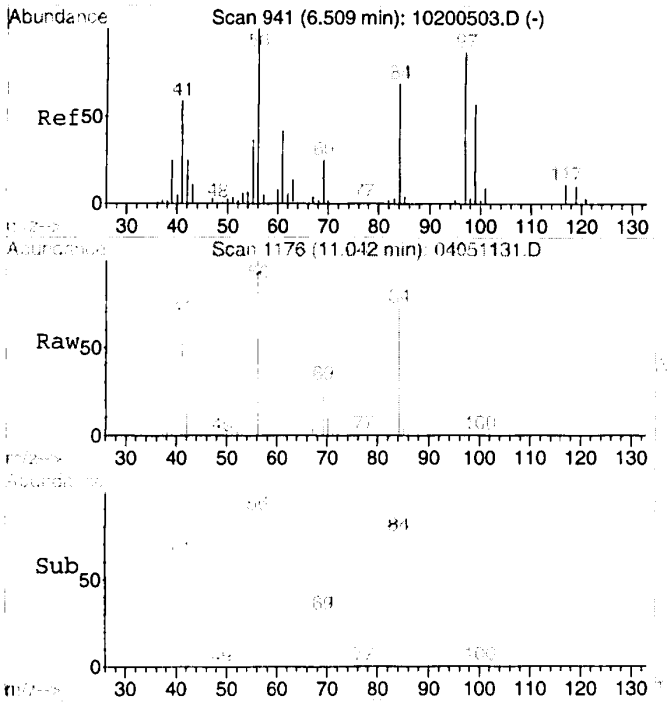


#20
n-Hexane
Concen: 62.18 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 57 Resp: 4821960

Ion	Ratio	Lower	Upper
57	100		
41	72.6	57.2	85.8
53	2.6	1.8	2.8
86	15.8	13.4	20.0

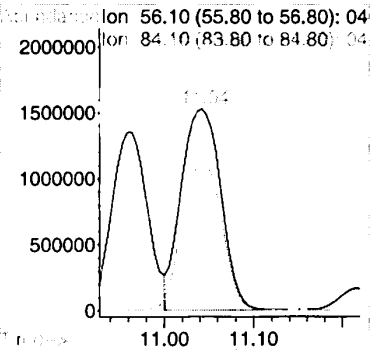


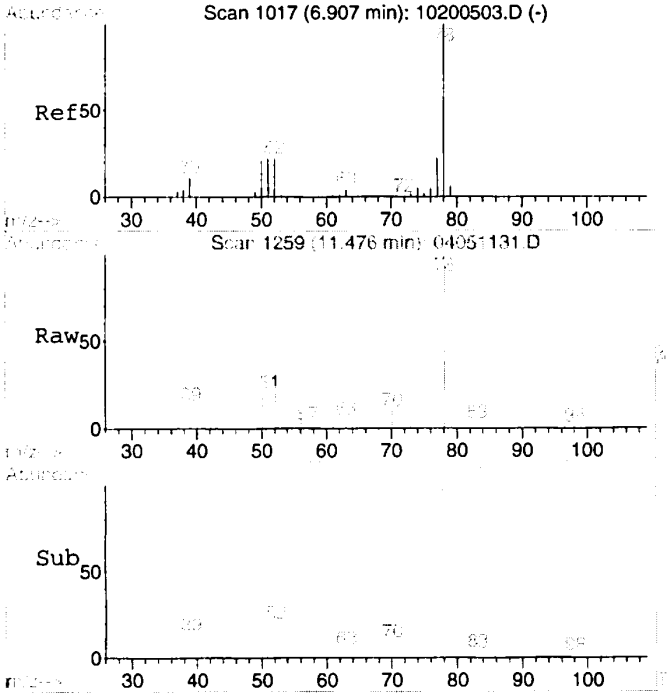


#29
Cyclohexane
Concen: 60.16 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.01 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 56 Resp: 4723859

Ion	Ratio	Lower	Upper
56	100		
84	75.1	72.4	108.6
41	65.7	43.8	65.8

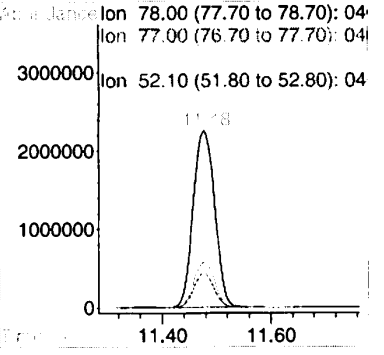


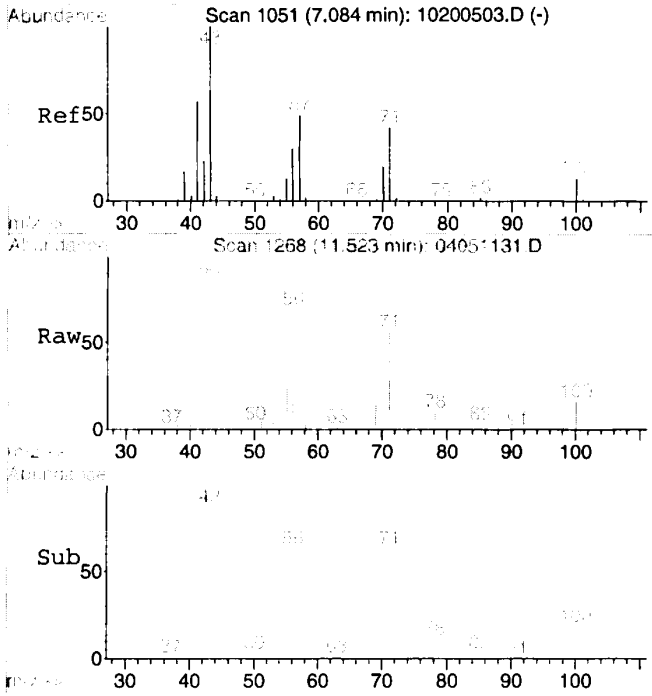


#31
Benzene
Concen: 48.23 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 78 Resp: 6330991

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	19.2	0.0	36.1
52	18.6	0.0	36.0

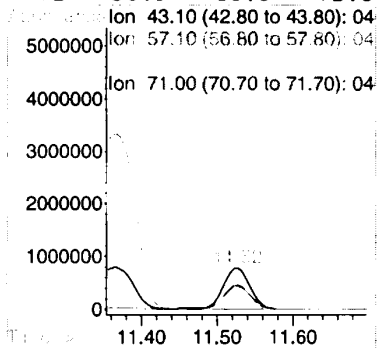


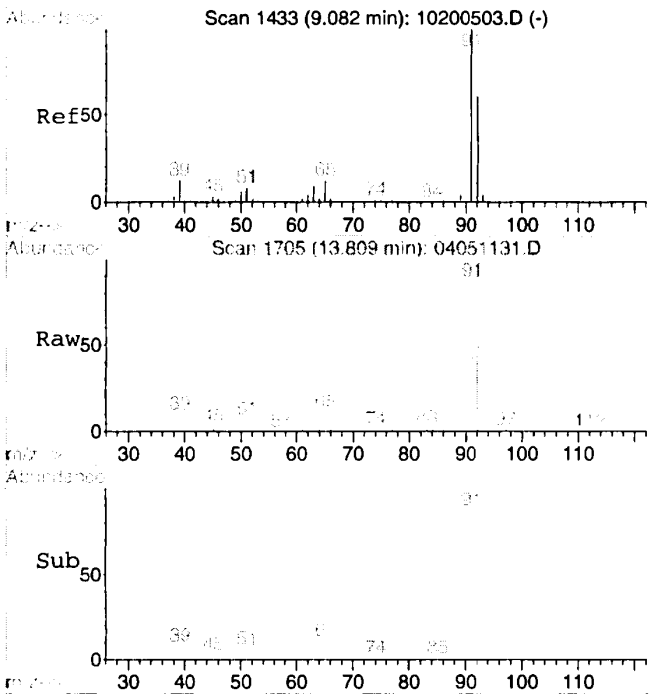


#34
Heptane
Concen: 20.94 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. 0.00 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 43 Resp: 1918903

Ion	Ratio	Lower	Upper
43	100		
57	59.7	42.2	63.4
100	15.0	17.3	25.9#
71	56.9	48.3	72.5

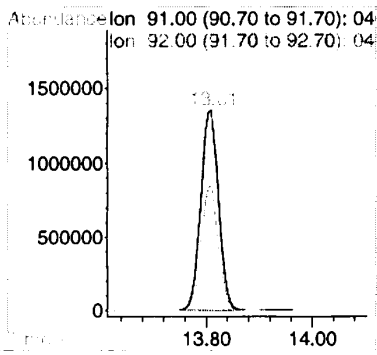


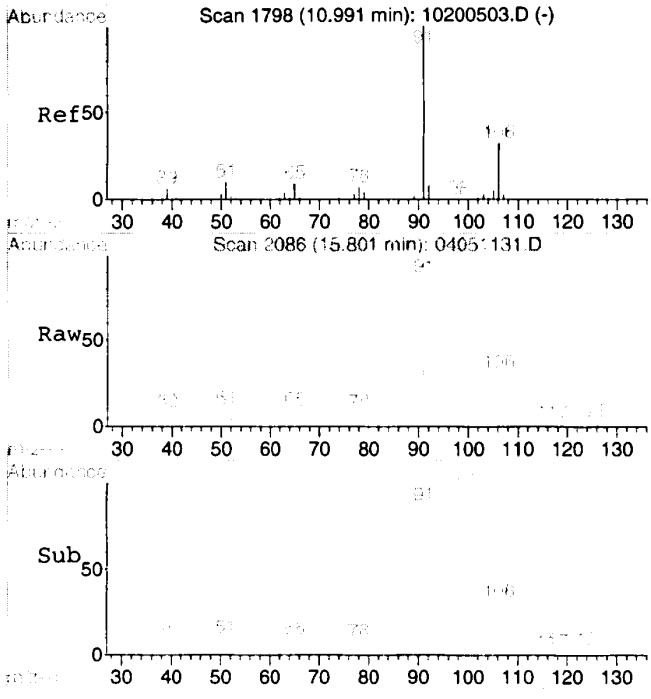


#41
Toluene
Concen: 22.47 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.01 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 91 Resp: 3213514

Ion	Ratio	Lower	Upper
91	100		
92	61.4	40.5	80.5
65	11.7	0.0	31.2

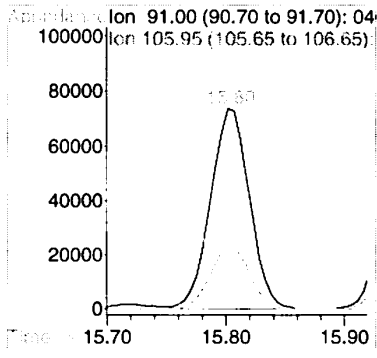


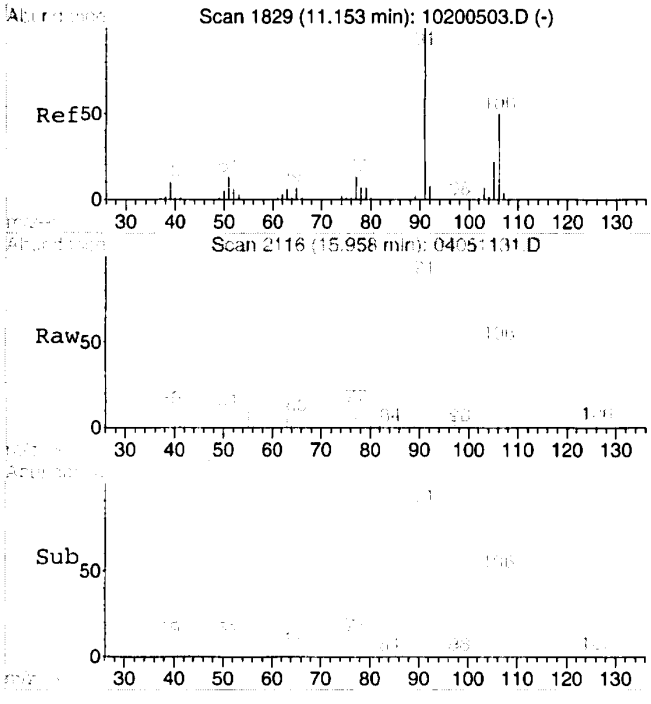


#50
Ethylbenzene
Concen: 0.94 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 91 Resp: 166668

Ion	Ratio	Lower	Upper
91	100		
106	31.3	14.9	54.9
51	10.7	0.0	33.1

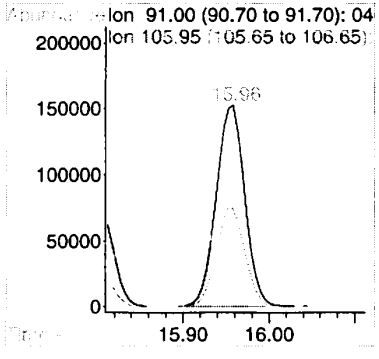


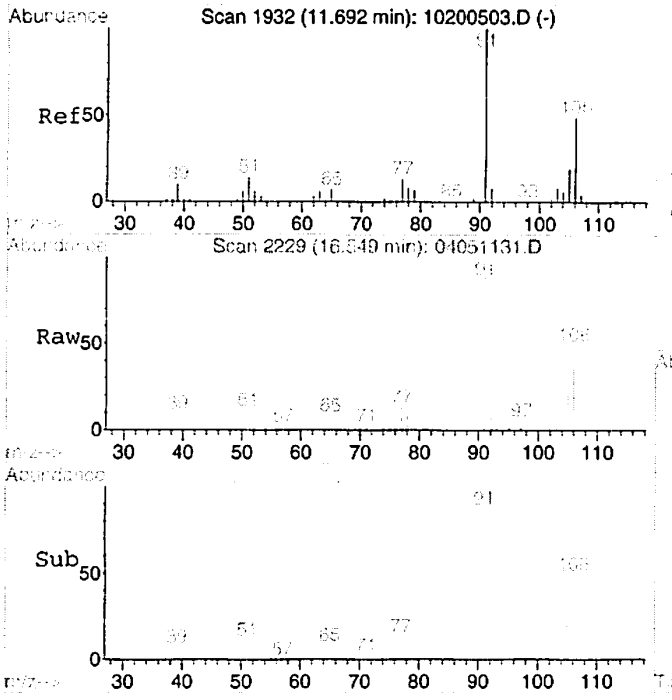


#51
m,p-Xylene
Concen: 2.58 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 91 Resp: 354028

Ion	Ratio	Lower	Upper
91	100		
106	49.4	35.6	75.6
51	10.4	0.0	29.6

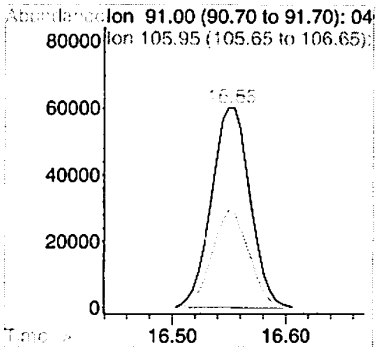




#52
o-Xylene
Concen: 1.07 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04051131.D
Acq: 6 Apr 2011 7:15 am

Tgt Ion: 91 Resp: 142467

Ion	Ratio	Lower	Upper
91	100		
106	46.8	41.0	61.6
51	12.1	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.346	62	87	131	rBV	427354	2321577	5.15%	0.567%
2	5.676	134	150	171	rVB2	143409	613508	1.36%	0.150%
3	6.047	204	221	245	rBV2	451527	1751927	3.89%	0.428%
4	6.340	256	277	290	rBV	1686107	6345484	14.07%	1.550%
5	6.455	291	299	322	rVB	186513	673847	1.49%	0.165%
6	7.187	418	439	486	rBV	8850633	37937882	84.15%	9.270%
7	7.564	495	511	546	rBV	6416982	24212745	53.70%	5.916%
8	8.191	612	631	656	rBV	1921663	6231355	13.82%	1.523%
9	8.767	723	741	761	rBV3	9992092	45086056	100.00%	11.016%
10	8.934	762	773	790	rVV	1975245	5953547	13.20%	1.455%
11	9.096	790	804	836	rVB	5265054	15941277	35.36%	3.895%
12	9.394	848	861	894	rVB	6703450	19245431	42.69%	4.702%
13	9.917	947	961	968	rBV	291119	801732	1.78%	0.196%
14	10.012	968	979	1002	rVV	5022860	14039305	31.14%	3.430%
15	10.221	1004	1019	1045	rVV	6414929	18688372	41.45%	4.566%
16	10.765	1114	1123	1126	rVV	1180723	2689188	5.96%	0.657%
17	10.812	1126	1132	1147	rVV	2738898	7025459	15.58%	1.717%
18	10.958	1147	1160	1168	rVV	6220292	17421458	38.64%	4.257%
19	11.037	1168	1175	1198	rVV2	8166474	24763596	54.93%	6.051%
20	11.214	1198	1209	1218	rVV	946168	2546272	5.65%	0.622%
21	11.366	1218	1238	1250	rVV	8462915	30953296	68.65%	7.563%
22	11.476	1250	1259	1265	rVV	6458980	18498876	41.03%	4.520%
23	11.528	1265	1269	1306	rVB4	5075933	12558326	27.85%	3.068%
24	11.863	1321	1333	1351	rBV	1847851	4257435	9.44%	1.040%
25	12.203	1385	1398	1405	rBV	605389	1421549	3.15%	0.347%
26	12.292	1405	1415	1424	rVV	1917403	5214515	11.57%	1.274%
27	12.397	1425	1435	1456	rVV	7596780	22008505	48.81%	5.378%
28	12.574	1457	1469	1474	rVV2	507892	1431038	3.17%	0.350%
29	12.627	1474	1479	1495	rVB	643812	1522974	3.38%	0.372%
30	12.799	1498	1512	1525	rBV2	3253325	8420606	18.68%	2.057%
31	12.946	1526	1540	1542	rVV5	1245881	3379488	7.50%	0.826%
32	12.993	1543	1549	1564	rVB	2308358	6344294	14.07%	1.550%
33	13.150	1569	1579	1596	rBV2	642102	2220556	4.93%	0.543%
34	13.343	1608	1616	1631	rVB	927022	2355267	5.22%	0.575%
35	13.579	1648	1661	1667	rBV	1448012	3970994	8.81%	0.970%
36	13.673	1674	1679	1693	rVB	777198	1730355	3.84%	0.423%
37	13.809	1693	1705	1721	rVB	3495098	9028764	20.03%	2.206%
38	14.081	1741	1757	1770	rBV3	717412	2033251	4.51%	0.497%
39	14.201	1770	1780	1790	rVB5	258020	725911	1.61%	0.177%
40	14.829	1887	1900	1906	rVV	761238	2065296	4.58%	0.505%
41	14.886	1906	1911	1919	rVV	464910	1200552	2.66%	0.293%
42	15.017	1930	1936	1956	rVB3	236859	677435	1.50%	0.166%
43	15.195	1958	1970	1988	rBV	294528	766937	1.70%	0.187%

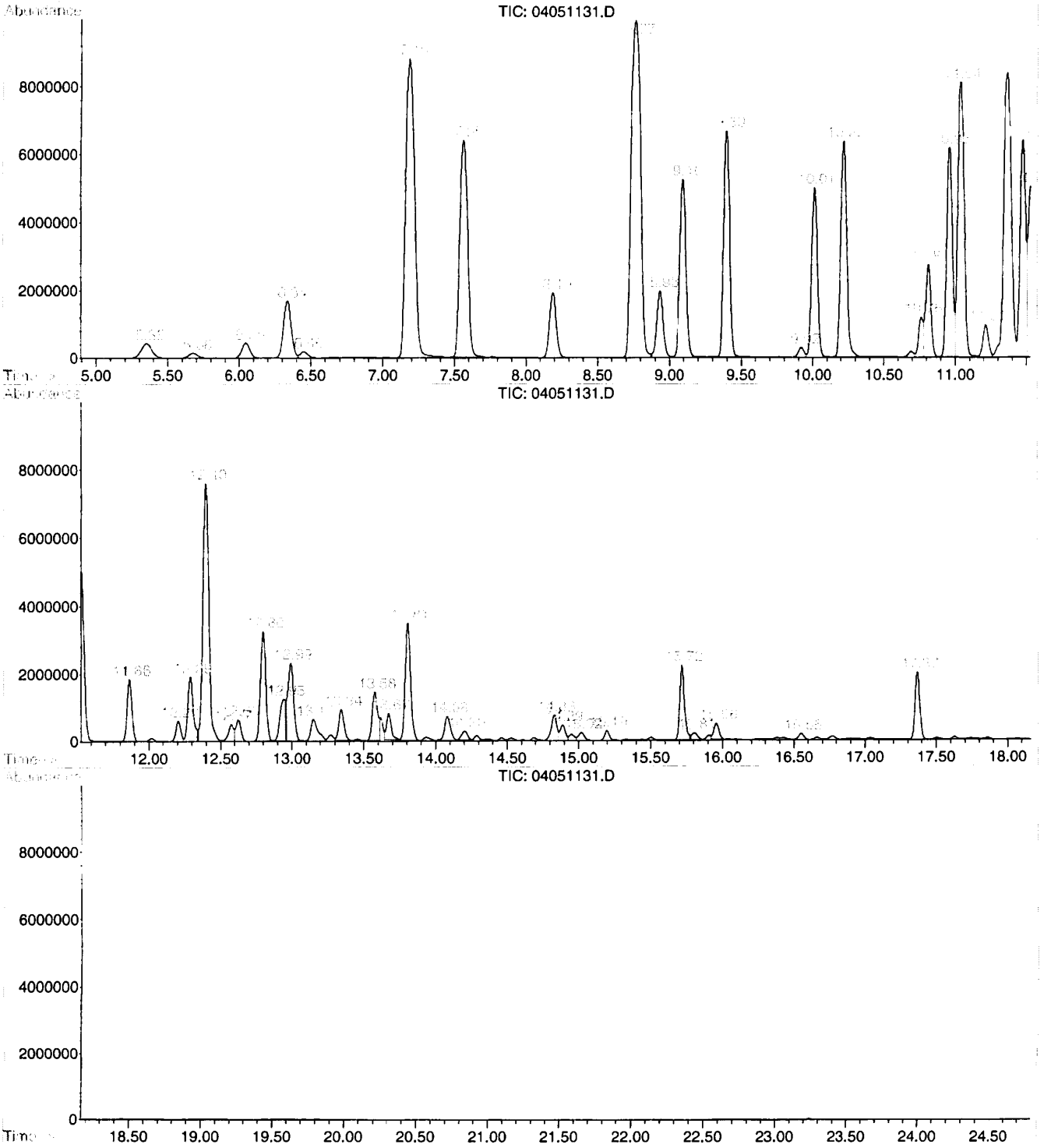
44	15.718	2060	2070	2081	rBV	2236616	5399019	11.97%	1.319%
45	15.807	2082	2087	2098	rVB2	204895	541242	1.20%	0.132%
46	15.958	2109	2116	2127	rVB	476078	1173444	2.60%	0.287%
47	16.549	2219	2229	2241	rVB	183301	481168	1.07%	0.118%
48	17.370	2375	2386	2402	rVB	2009753	4595999	10.19%	1.123%

Sum of corrected areas: 409267110

04051131.D 031611V1.M Thu Apr 14 12:45:22 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051131.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 7:15 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-008A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 9
Quant File :031611V1.RES (RTE Integrator)



04051131.D 031611V1.M Thu Apr 14 12:45:22 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	10.79 ppbv	2321580	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Isobutane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.05	8.14 ppbv	1751930	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	72
2	Isobutane	58	C4H10	000075-28-5	64
3	Isobutane $$ Propane, 2-methyl- $$	58	C4H10	000075-28-5	38
4	Cyclobutylamine $$ Aminocyclobutane	71	C4H9N	002516-34-9	9
5	Cyclobutylamine	71	C4H9N	002516-34-9	9

****

Peak Number 3 Butane $$ n-Butane $$ Diethyl Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	29.50 ppbv	6345480	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	72
3	Isobutane $$ Propane, 2-methyl- $$	58	C4H10	000075-28-5	9
4	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9
5	Isobutane	58	C4H10	000075-28-5	9

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	176.35 ppbv	37937900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	33
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25

****

Peak Number 5 Pentane $$ n-Pentane $$ Skelly Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	112.55 ppbv	24212700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	86
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	58
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

****

Peak Number 6 Butane, 2,2-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	28.96 ppbv	6231360	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2-iodo-3-methyl-	198	C5H11I	000000-00-0	33

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	209.57 ppbv	45086100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
4	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	59
5	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	53

****

Peak Number 8 Cyclopentane $$ Pentamethylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	27.67 ppbv	5953550	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	80
2	Cyclopentane	70	C5H10	000287-92-3	72
3	Cyclobutanone	70	C4H6O	001191-95-3	50
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	43
5	1-Pentene	70	C5H10	000109-67-1	39

****

Peak Number 9 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	74.10 ppbv	15941300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	39

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	65.26 ppbv	14039300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 11 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	86.87 ppbv	18688400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
5	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64

****

Peak Number 12 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	80.98 ppbv	17421500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclopentane, 1,1-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	11.84 ppbv	2546270	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
3	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	35
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	32

****

Peak Number 14 Hexane, 2,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	90.88 ppbv	30953300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72

****

Peak Number 15 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	15.31 ppbv	5214520	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
4	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
5	Octane, 3,4-dimethyl- $$ 3,4-Dimeth	142	C10H22	015869-92-8	38

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Cyclohexane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	64.62 ppbv	22008500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 17 Pentane, 2,3,4-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	24.72 ppbv	8420610	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64

****

Peak Number 18 Heptane, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	9.92 ppbv	3379490	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	64
2	Heptane, 4-methyl-	114	C8H18	000589-53-7	53
3	Pyrrolidine $$ Azacyclopentane $$ A	71	C4H9N	000123-75-1	53
4	Pyrrolidine	71	C4H9N	000123-75-1	50
5	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	50

Data File : C:\HPCHEM\1\DATA\040511\04051131.D Vial: 9
Acq On : 6 Apr 2011 7:15 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	18.63 ppbv	6344290	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	45
2	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	45
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	40
5	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	39

****

Peak Number 20 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	11.66 ppbv	3970990	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 7:15 am
Data File: C:\HPCHEM\1\DATA\040511\04051131.D
Name: 1103609-008A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	10.8	ppbv	2321580	ISTD01	10.76	2689190	12.5
Isobutane	6.05	8.1	ppbv	1751930	ISTD01	10.76	2689190	12.5
Butane $$ n-Butane $	6.34	29.5	ppbv	6345480	ISTD01	10.76	2689190	12.5
Butane, 2-methyl-	7.19	176.3	ppbv	37937900	ISTD01	10.76	2689190	12.5
Pentane $$ n-Pentane	7.56	112.5	ppbv	24212700	ISTD01	10.76	2689190	12.5
Butane, 2,2-dimethyl	8.19	29.0	ppbv	6231360	ISTD01	10.76	2689190	12.5
Pentane, 2-methyl-	8.77	209.6	ppbv	45086100	ISTD01	10.76	2689190	12.5
Cyclopentane $$ Pent	8.93	27.7	ppbv	5953550	ISTD01	10.76	2689190	12.5
Pentane, 3-methyl-	9.10	74.1	ppbv	15941300	ISTD01	10.76	2689190	12.5
Pentane, 2,4-dimethy	10.01	65.3	ppbv	14039300	ISTD01	10.76	2689190	12.5
Cyclopentane, methyl	10.22	86.9	ppbv	18688400	ISTD01	10.76	2689190	12.5
Pentane, 2,3-dimethy	10.96	81.0	ppbv	17421500	ISTD01	10.76	2689190	12.5
Cyclopentane, 1,1-di	11.21	11.8	ppbv	2546270	ISTD01	10.76	2689190	12.5
Hexane, 2,2-dimethyl	11.37	90.9	ppbv	30953300	ISTD02	11.86	4257440	12.5
Hexane, 2,4-dimethyl	12.29	15.3	ppbv	5214520	ISTD02	11.86	4257440	12.5
Cyclohexane, methyl-	12.40	64.6	ppbv	22008500	ISTD02	11.86	4257440	12.5
Pentane, 2,3,4-trime	12.80	24.7	ppbv	8420610	ISTD02	11.86	4257440	12.5
Heptane, 2-methyl-	12.95	9.9	ppbv	3379490	ISTD02	11.86	4257440	12.5
Decane, 3,3,4-trimet	12.99	18.6	ppbv	6344290	ISTD02	11.86	4257440	12.5
Cyclohexane, 1,3-dim	13.58	11.7	ppbv	3970990	ISTD02	11.86	4257440	12.5

04051131.D 031611V1.M Thu Apr 14 12:45:23 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:06 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	545943	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1941202	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1540754	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	973180	12.60	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.80%				
Target Compounds							Qvalue
2) Propylene*	5.67	41	172391	4.21	ppbv	#	83
14) Acetone*	8.37	43	87656	1.30	ppbv	#	98
20) n-Hexane	9.40	57	4339940	54.44	ppbv		100
29) Cyclohexane	11.04	56	4144779	51.35	ppbv	#	83
31) Benzene	11.47	78	4467309	33.10	ppbv		96
34) Heptane	11.53	43	2218200	23.66	ppbv	#	91
41) Toluene	13.81	91	7074077	48.35	ppbv		94
50) Ethylbenzene*	15.80	91	325668	1.82	ppbv		94
51) m,p-Xylene*	15.96	91	493995	3.56	ppbv		92
52) o-Xylene*	16.55	91	151002	1.12	ppbv	#	87

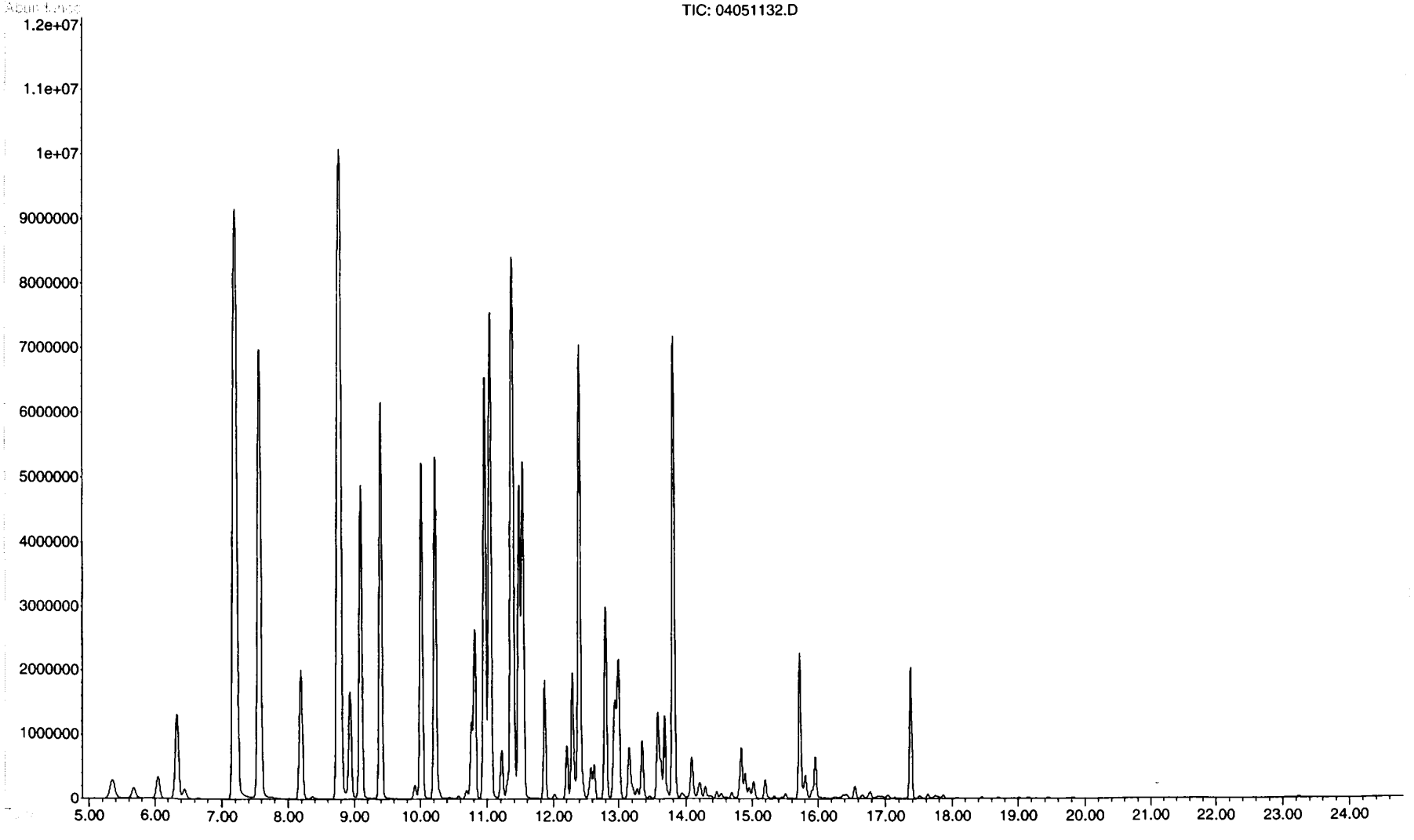
* = reported only 4/15/11 AP

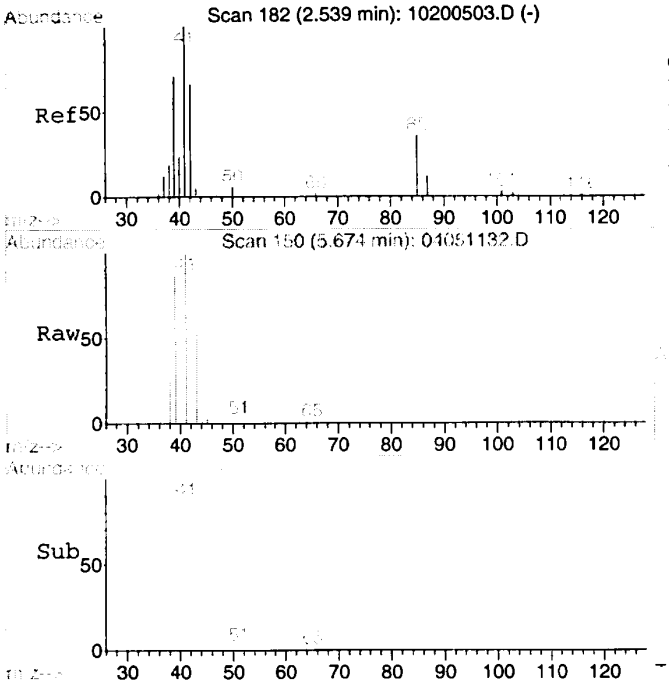
(#) = qualifier out of range (m) = manual integration
04051132.D 031611V1.M Thu Apr 14 12:45:27 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 6 10:06 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

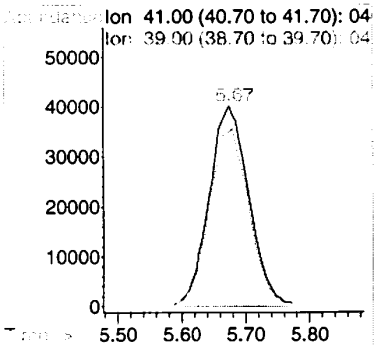


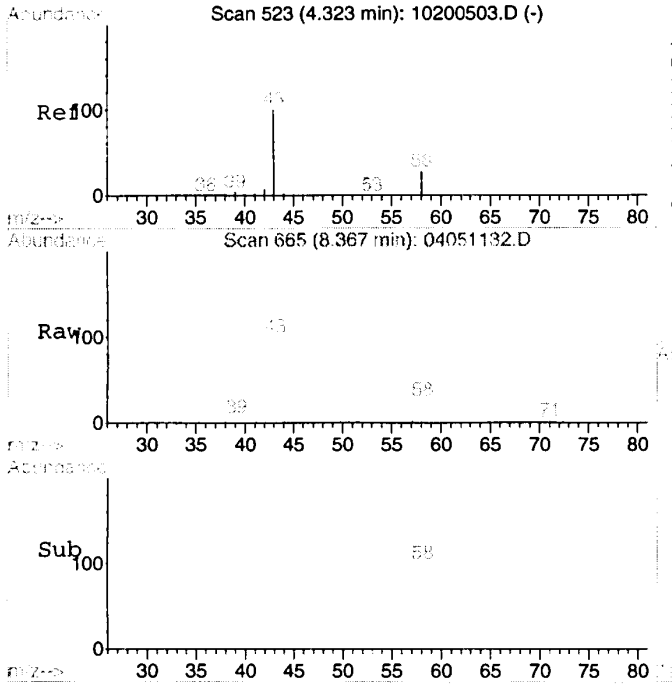


#2
Propylene
Concen: 4.21 ppbv
RT: 5.67 min Scan# 150
Delta R.T. -0.01 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 41 Resp: 172391

Ion	Ratio	Lower	Upper
41	100		
39	88.8	57.6	86.4#
42	57.0	54.0	81.0

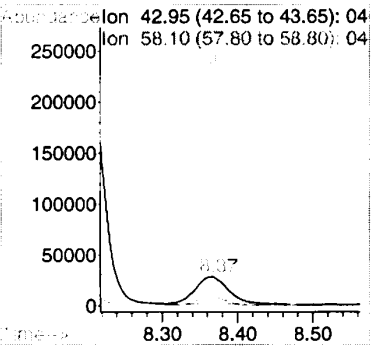


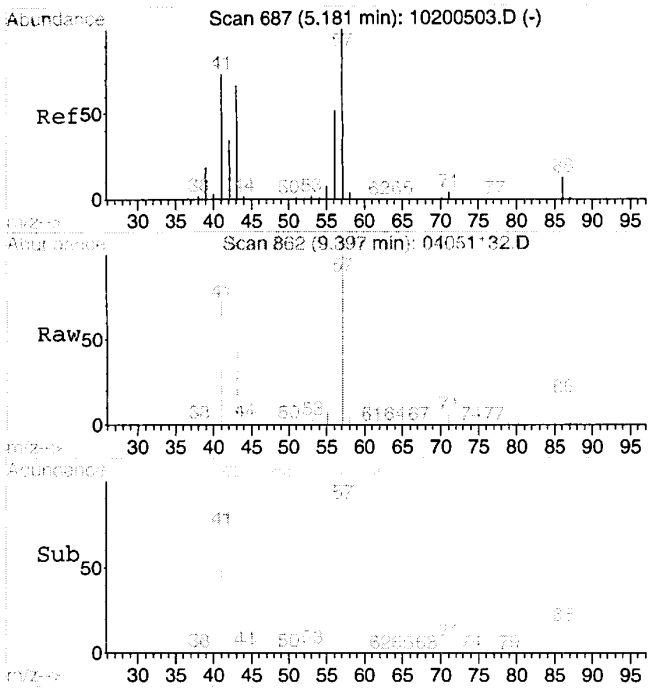


#14
Acetone
Concen: 1.30 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 43 Resp: 87656

Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.0	33.0
39	5.7	6.5	9.7#

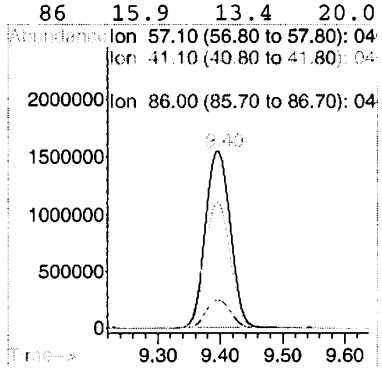


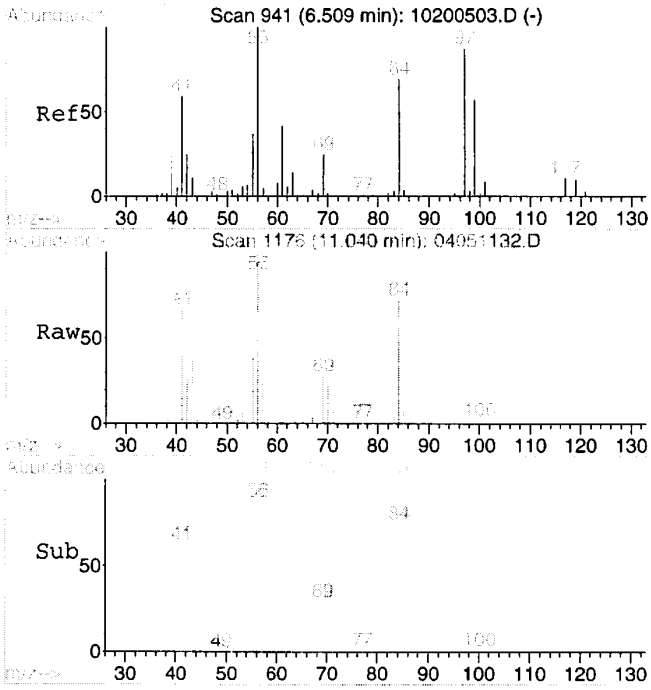


#20
n-Hexane
Concen: 54.44 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 57 Resp: 4339940

Ion	Ratio	Lower	Upper
57	100		
41	71.5	57.2	85.8
53	2.5	1.8	2.8
86	15.9	13.4	20.0

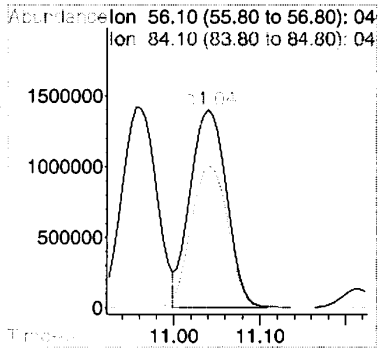


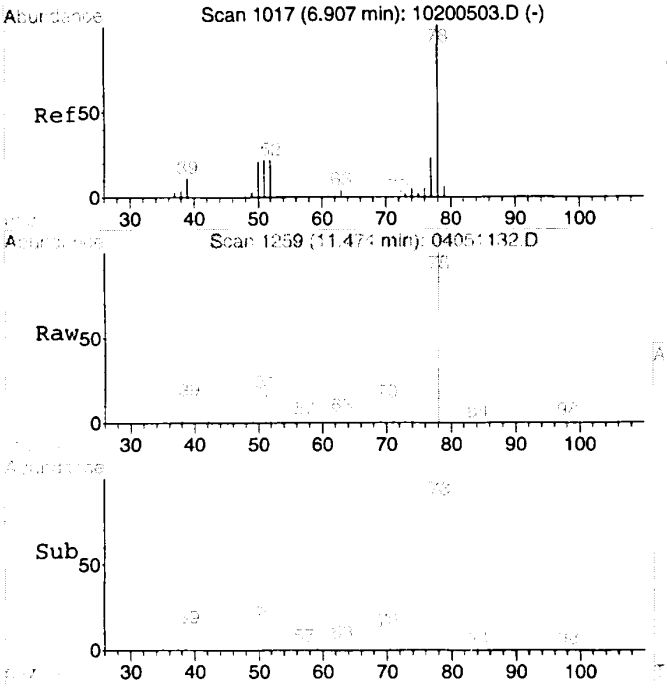


#29
Cyclohexane
Concen: 51.35 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 56 Resp: 4144779

Ion	Ratio	Lower	Upper
56	100		
84	73.7	72.4	108.6
41	66.2	43.8	65.8#

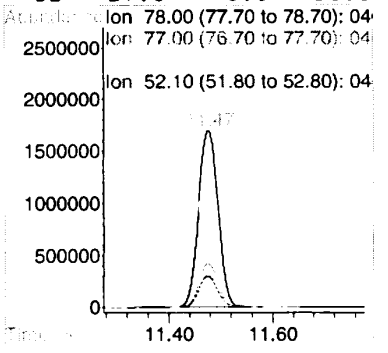


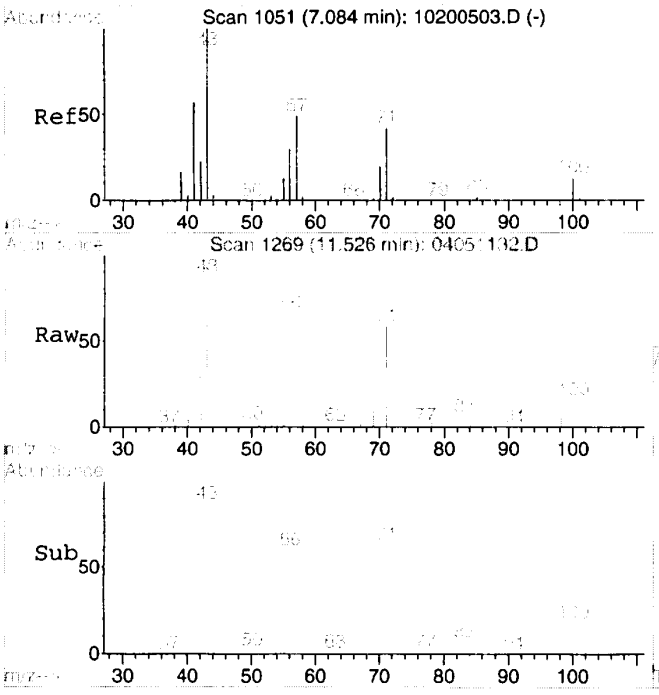


#31
Benzene
Concen: 33.10 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 78 Resp: 4467309

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	18.6	0.0	36.1
52	17.8	0.0	36.0

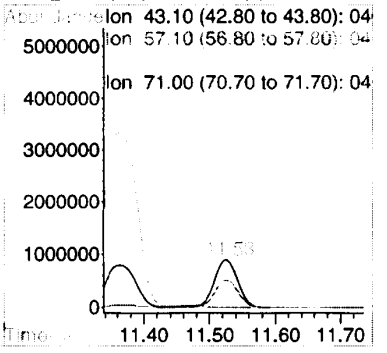


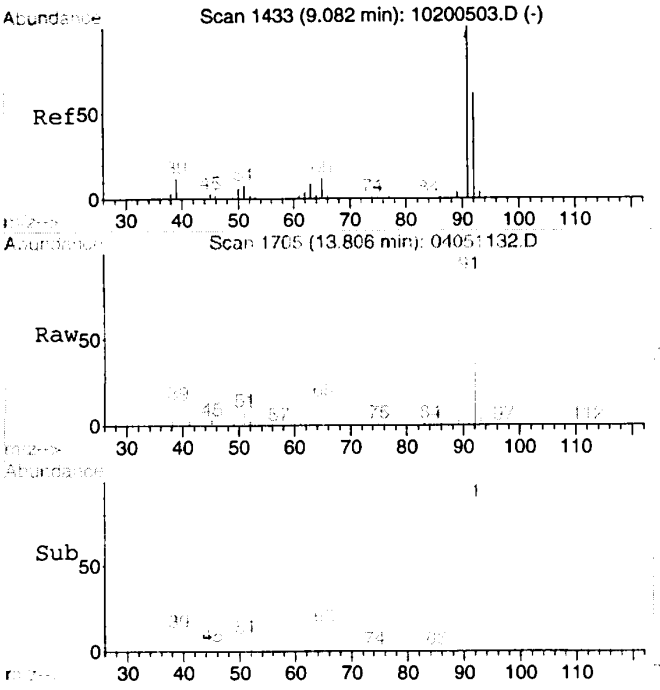


#34
Heptane
Concen: 23.66 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 43 Resp: 2218200

Ion	Ratio	Lower	Upper
43	100		
57	61.2	42.2	63.4
100	15.4	17.3	25.9#
71	57.2	48.3	72.5

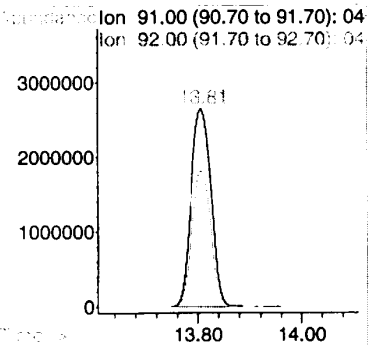


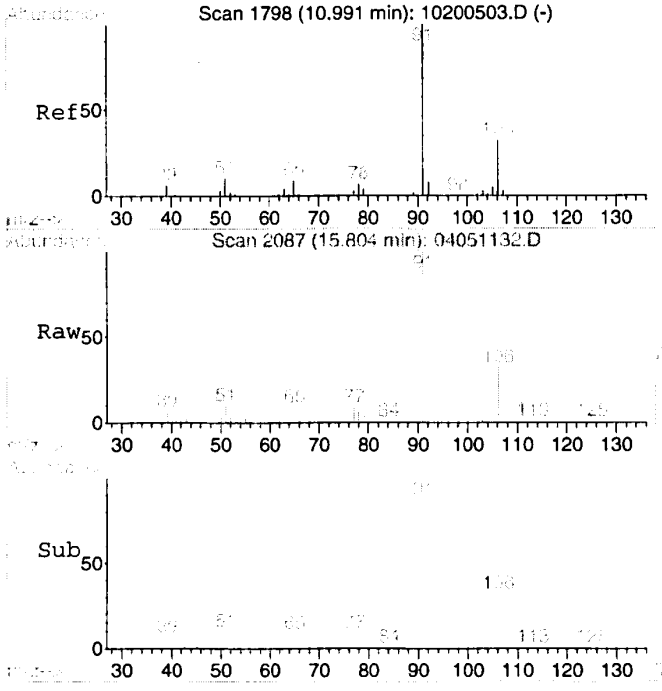


#41
Toluene
Concen: 48.35 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 91 Resp: 7074077

Ion	Ratio	Lower	Upper
91	100		
92	65.4	40.5	80.5
65	12.9	0.0	31.2

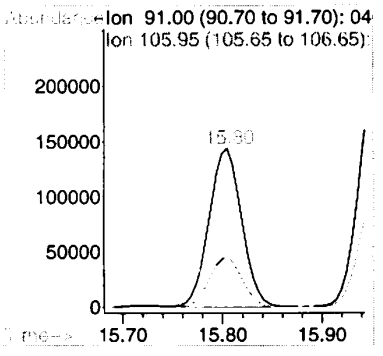


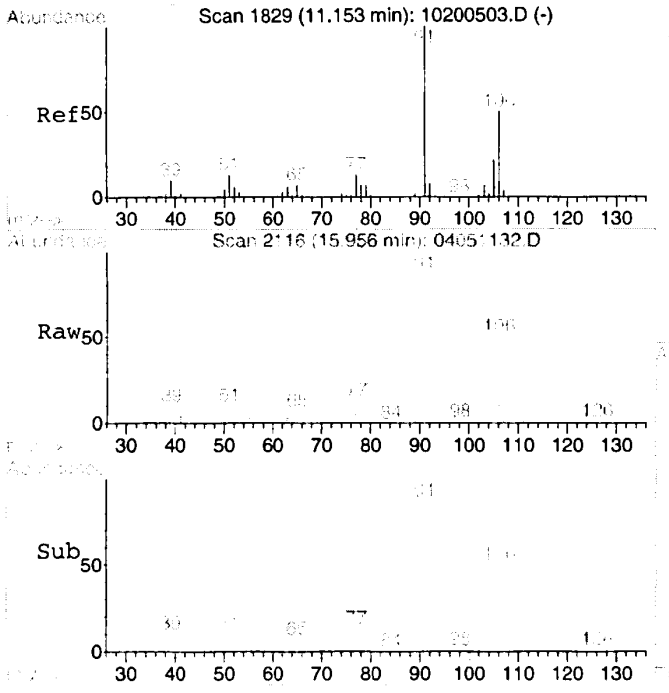


#50
Ethylbenzene
Concen: 1.82 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 91 Resp: 325668

Ion	Ratio	Lower	Upper
91	100		
106	31.4	14.9	54.9
51	10.6	0.0	33.1

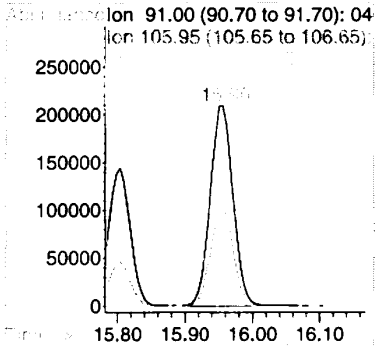


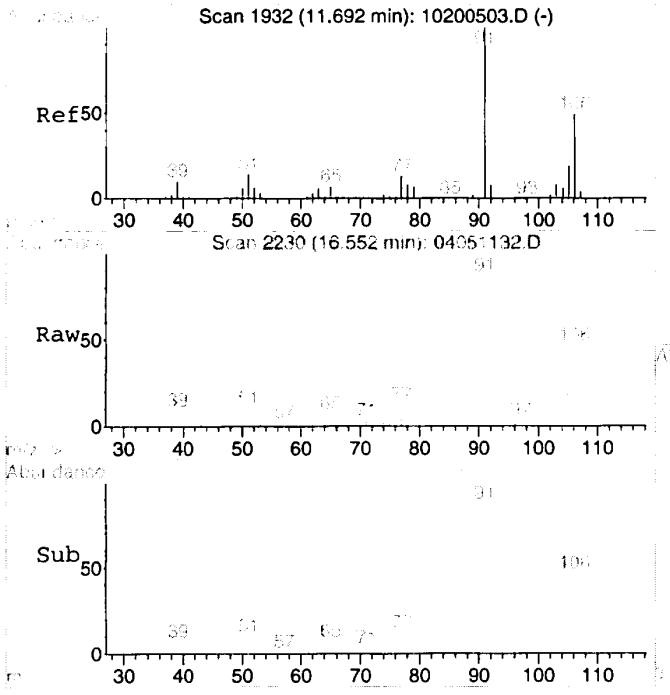


#51
m,p-Xylene
Concen: 3.56 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 91 Resp: 493995

Ion	Ratio	Lower	Upper
91	100		
106	49.3	35.6	75.6
51	10.3	0.0	29.6

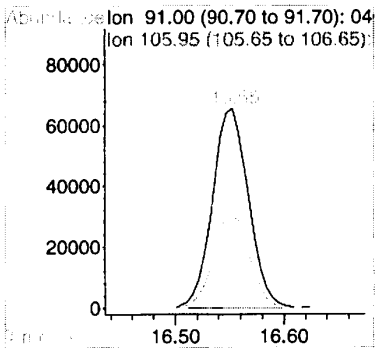




#52
o-Xylene
Concen: 1.12 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04051132.D
Acq: 6 Apr 2011 7:59 am

Tgt Ion: 91 Resp: 151002

Ion	Ratio	Lower	Upper
91	100		
106	47.0	41.0	61.6
51	11.7	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.344	61	87	119	rBV	297654	1585903	3.48%	0.391%
2	5.674	133	150	173	rVB3	172107	740855	1.62%	0.182%
3	6.045	203	221	240	rBV2	347194	1351830	2.96%	0.333%
4	6.338	255	277	290	rBV	1324502	4965975	10.89%	1.223%
5	6.448	291	298	316	rVB	156137	562988	1.23%	0.139%
6	7.185	421	439	487	rBV	9169929	40309935	88.41%	9.928%
7	7.562	496	511	541	rVB	6957218	26043185	57.12%	6.414%
8	8.189	615	631	652	rBV	2014996	6482153	14.22%	1.597%
9	8.765	723	741	761	rBV3	10096131	45593619	100.00%	11.229%
10	8.932	762	773	790	rVV	1667847	5046463	11.07%	1.243%
11	9.094	790	804	834	rVB	4883763	14468966	31.73%	3.564%
12	9.397	849	862	893	rVB	6162567	17235340	37.80%	4.245%
13	9.915	941	961	968	rBV	219248	609311	1.34%	0.150%
14	10.009	968	979	1003	rVV	5230420	14734526	32.32%	3.629%
15	10.219	1005	1019	1046	rVV	5321925	15121097	33.16%	3.724%
16	10.768	1114	1124	1126	rVV	1206108	2676200	5.87%	0.659%
17	10.810	1127	1132	1147	rVV	2648533	6509768	14.28%	1.603%
18	10.956	1147	1160	1168	rVV	6553465	18363851	40.28%	4.523%
19	11.040	1168	1176	1197	rVV2	7564336	22025997	48.31%	5.425%
20	11.212	1198	1209	1218	rVV	754088	2015300	4.42%	0.496%
21	11.364	1218	1238	1251	rVV	8421395	30327890	66.52%	7.470%
22	11.474	1251	1259	1264	rVV	4880478	12683611	27.82%	3.124%
23	11.526	1264	1269	1290	rVB3	5236636	13659345	29.96%	3.364%
24	11.861	1322	1333	1351	rVV	1850340	4344054	9.53%	1.070%
25	12.201	1387	1398	1406	rBV	831730	1970032	4.32%	0.485%
26	12.290	1406	1415	1425	rVV	1970951	5279865	11.58%	1.300%
27	12.394	1425	1435	1456	rVV	7059483	20101403	44.09%	4.951%
28	12.577	1457	1470	1474	rVV3	492687	1346217	2.95%	0.332%
29	12.624	1475	1479	1493	rVB	536635	1203706	2.64%	0.296%
30	12.797	1498	1512	1526	rBV2	3000029	7840554	17.20%	1.931%
31	12.949	1526	1541	1544	rVV4	1542363	4756019	10.43%	1.171%
32	12.990	1545	1549	1567	rVV2	2171121	5440308	11.93%	1.340%
33	13.153	1569	1580	1596	rVV2	793987	2584430	5.67%	0.637%
34	13.346	1608	1617	1631	rVB	895779	2282733	5.01%	0.562%
35	13.576	1647	1661	1668	rBV	1349580	3792875	8.32%	0.934%
36	13.676	1674	1680	1694	rVB	1246889	2703153	5.93%	0.666%
37	13.806	1694	1705	1721	rVB	7182808	18969454	41.61%	4.672%
38	14.078	1742	1757	1770	rBV3	642455	1824100	4.00%	0.449%
39	14.199	1770	1780	1790	rVB4	227115	657403	1.44%	0.162%
40	14.826	1886	1900	1907	rVV	791353	2139916	4.69%	0.527%
41	14.889	1907	1912	1919	rVV	395672	969479	2.13%	0.239%
42	15.020	1930	1937	1957	rVB3	277014	770129	1.69%	0.190%
43	15.198	1959	1971	1988	rBV	302498	782468	1.72%	0.193%

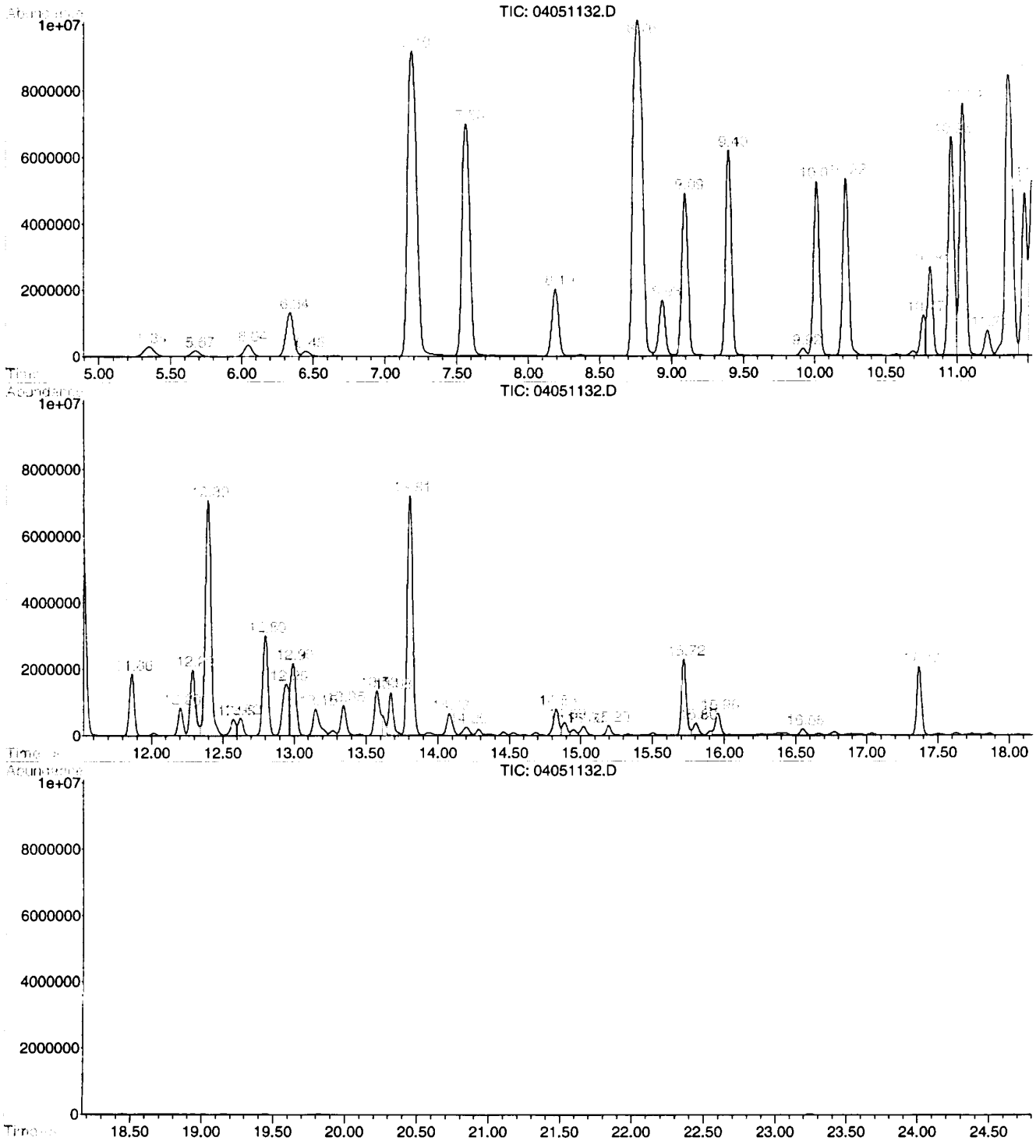
44	15.721	2059	2071	2081	rBV	2280274	5514147	12.09%	1.358%
45	15.804	2081	2087	2098	rVV	360943	930848	2.04%	0.229%
46	15.956	2109	2116	2128	rVB	641466	1583874	3.47%	0.390%
47	16.552	2219	2230	2241	rVB	189979	492166	1.08%	0.121%
48	17.368	2373	2386	2400	rBV	2047116	4628481	10.15%	1.140%

Sum of corrected areas: 406021922

04051132.D 031611V1.M Thu Apr 14 12:45:32 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040511\04051132.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 7:59 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-009A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 10
Quant File :031611V1.RES (RTE Integrator)



04051132.D 031611V1.M Thu Apr 14 12:45:32 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Butane $$ n-Butane $$ Diethyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	23.20 ppbv	4965980	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	72
3	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9
4	Isobutane $$ Propane, 2-methyl- $$	58	C4H10	000075-28-5	9
5	Isobutane	58	C4H10	000075-28-5	9

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	188.28 ppbv	40309900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	33
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25

****

Peak Number 3 Pentane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	121.64 ppbv	26043200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	30.28 ppbv	6482150	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Butane, 2-bromo-2-methyl-	150	C5H11Br	000507-36-8	36

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	212.96 ppbv	45593600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	86
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	64

****

Peak Number 6 Cyclopentane $$ Pentamethylene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	23.57 ppbv	5046460	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	80
2	Cyclopentane	70	C5H10	000287-92-3	72
3	Cyclobutanone	70	C4H6O	001191-95-3	50
4	1-Pentene	70	C5H10	000109-67-1	39
5	Cyclobutane, methyl-	70	C5H10	000598-61-8	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	67.58 ppbv	14469000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 8 Pentane, 2,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	68.82 ppbv	14734500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 9 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	70.63 ppbv	15121100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclohexane	84	C6H12	000110-82-7	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	85.77 ppbv	18363900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 11 Cyclopentane, 1,1-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	9.41 ppbv	2015300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	83
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
3	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	35
4	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	32

****

Peak Number 12 Butane, 2,2,3,3-tetramethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	87.27 ppbv	30327900	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	74
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 1-(hexyloxy)-5-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	15.19 ppbv	5279870	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	53
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43
5	1-Octanol, 3,7-dimethyl-	158	C10H22O	000106-21-8	38

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	57.84 ppbv	20101400	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	22.56 ppbv	7840550	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	13.69 ppbv	4756020	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	52
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	50

****

Peak Number 17 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	15.65 ppbv	5440310	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	45
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
3	1-Butanol, 2,2-dimethyl-	102	C6H14O	001185-33-7	40
4	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	36
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	36

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	7.44 ppbv	2584430	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	81
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	72
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	58
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

Data File : C:\HPCHEM\1\DATA\040511\04051132.D Vial: 10
Acq On : 6 Apr 2011 7:59 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	10.91 ppbv	3792880	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 20 Octane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	7.78 ppbv	2703150	1,4-Difluorobenzene	11.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 7:59 am
Data File: C:\HPCHEM\1\DATA\040511\04051132.D
Name: 1103609-009A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Butane $$ n-Butane $	6.34	23.2	ppbv	4965980	ISTD01	10.76	2676200	12.5
Butane, 2-methyl-	7.19	188.3	ppbv	40309900	ISTD01	10.76	2676200	12.5
Pentane	7.56	121.6	ppbv	26043200	ISTD01	10.76	2676200	12.5
Butane, 2,2-dimethyl	8.19	30.3	ppbv	6482150	ISTD01	10.76	2676200	12.5
Pentane, 2-methyl-	8.76	213.0	ppbv	45593600	ISTD01	10.76	2676200	12.5
Cyclopentane $$ Pent	8.93	23.6	ppbv	5046460	ISTD01	10.76	2676200	12.5
Pentane, 3-methyl-	9.09	67.6	ppbv	14469000	ISTD01	10.76	2676200	12.5
Pentane, 2,4-dimethy	10.01	68.8	ppbv	14734500	ISTD01	10.76	2676200	12.5
Cyclopentane, methyl	10.22	70.6	ppbv	15121100	ISTD01	10.76	2676200	12.5
Pentane, 2,3-dimethy	10.96	85.8	ppbv	18363900	ISTD01	10.76	2676200	12.5
Cyclopentane, 1,1-di	11.21	9.4	ppbv	2015300	ISTD01	10.76	2676200	12.5
Butane, 2,2,3,3-tetr	11.36	87.3	ppbv	30327900	ISTD02	11.87	4344050	12.5
Hexane, 1-(hexyloxy)	12.29	15.2	ppbv	5279870	ISTD02	11.87	4344050	12.5
Cyclohexane, methyl-	12.39	57.8	ppbv	20101400	ISTD02	11.87	4344050	12.5
Pentane, 2,3,4-trime	12.80	22.6	ppbv	7840550	ISTD02	11.87	4344050	12.5
Heptane, 2-methyl-	12.95	13.7	ppbv	4756020	ISTD02	11.87	4344050	12.5
Decane, 3,3,4-trimet	12.99	15.7	ppbv	5440310	ISTD02	11.87	4344050	12.5
Heptane, 3-methyl-	13.15	7.4	ppbv	2584430	ISTD02	11.87	4344050	12.5
Cyclohexane, 1,3-dim	13.58	10.9	ppbv	3792880	ISTD02	11.87	4344050	12.5
Octane	13.68	7.8	ppbv	2703150	ISTD02	11.87	4344050	12.5

04051132.D 031611V1.M Thu Apr 14 12:45:33 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051133.D Vial: 2
Acq On : 6 Apr 2011 9:31 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	593261	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2204699	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1558731	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	989834	12.67	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.36%				
Target Compounds							Qvalue
2) Propylene	5.68	41	55826	1.26	ppbv		97
3) Dichlorodifluoromethane	5.76	85	148145	1.01	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	111781	1.04	ppbv		94
5) Chloromethane	6.18	50	55367	1.10	ppbv	#	95
6) Vinyl chloride	6.38	62	61031	1.07	ppbv	#	98
7) 1,3-Butadiene	6.44	39	50754	1.13	ppbv		94
8) Bromomethane	7.02	94	53332	1.02	ppbv		99
9) Chloroethane	7.17	64	31642	1.04	ppbv	#	72
10) Trichlorofluoromethane	7.51	101	147534	1.06	ppbv		98
11) Ethanol	7.74	45	8050	0.82	ppbv	#	80
12) Freon113	8.16	101	114617	1.02	ppbv		96
13) 1,1-Dichloroethene	8.27	61	91616	1.12	ppbv		94
14) Acetone	8.37	43	80304	1.10	ppbv	#	95
15) Carbon disulfide	8.64	76	154749	1.06	ppbv	#	99
16) 2-Propanol	8.41	45	42692	0.81	ppbv	#	1
17) Methylene chloride	8.93	49	72179	1.21	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	123862	0.91	ppbv	#	1
19) trans-1,2-Dichloroethene	9.21	61	79142	1.02	ppbv		93
20) n-Hexane	9.40	57	284835	3.29	ppbv		95
21) 1,1-Dichloroethane	9.77	63	88815	0.93	ppbv		99
22) Vinyl acetate	9.71	43	74286	0.76	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	50803	0.93	ppbv		93
24) 2-Butanone	10.42	43	67184	0.89	ppbv		93
25) Ethyl acetate	10.38	43	72395	0.77	ppbv	#	99
26) Tetrahydrofuran	10.77	42	69837	1.41	ppbv	#	72
27) Chloroform	10.78	83	101303	0.98	ppbv	#	67
28) 1,1,1-Trichloroethane	11.03	97	102739	0.96	ppbv		98
29) Cyclohexane	11.03	56	276214	3.15	ppbv		85
30) Carbon tetrachloride	11.19	117	101705	0.95	ppbv		98
31) Benzene	11.47	78	299152	2.04	ppbv		97
32) 1,2-Dichloroethane	11.55	62	55182	0.93	ppbv	#	93
34) Heptane	11.52	43	209573	1.97	ppbv	#	94
35) Trichloroethene	12.20	130	69047	0.92	ppbv		98
36) 1,2-Dichloropropane	12.56	63	45329	0.85	ppbv		99
37) 1,4-Dioxane	12.65	88	13888	0.66	ppbv	#	91
38) Bromodichloromethane	12.84	83	90062	0.87	ppbv		96
39) cis-1,3-Dichloropropene	13.40	75	65733	0.81	ppbv		97
40) 4-Methyl-2-pentanone	13.51	58	15330	0.63	ppbv		96
41) Toluene	13.80	91	428164	2.58	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	50382	0.75	ppbv	#	95
43) 1,1,2-Trichloroethane	14.38	97	46722	0.86	ppbv		98
44) Tetrachloroethene	14.50	166	88057	0.96	ppbv		98
45) 2-Hexanone	14.59	43	23186	0.65	ppbv		97
46) Chlorodibromomethane	14.93	129	77079	0.85	ppbv		99
47) 1,2-Dibromoethane	15.17	107	68058	0.86	ppbv		98
49) Chlorobenzene	15.76	112	99710	0.91	ppbv	#	78
50) Ethylbenzene	15.80	91	175284	0.97	ppbv		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040511\04051133.D Vial: 2
Acq On : 6 Apr 2011 9:31 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

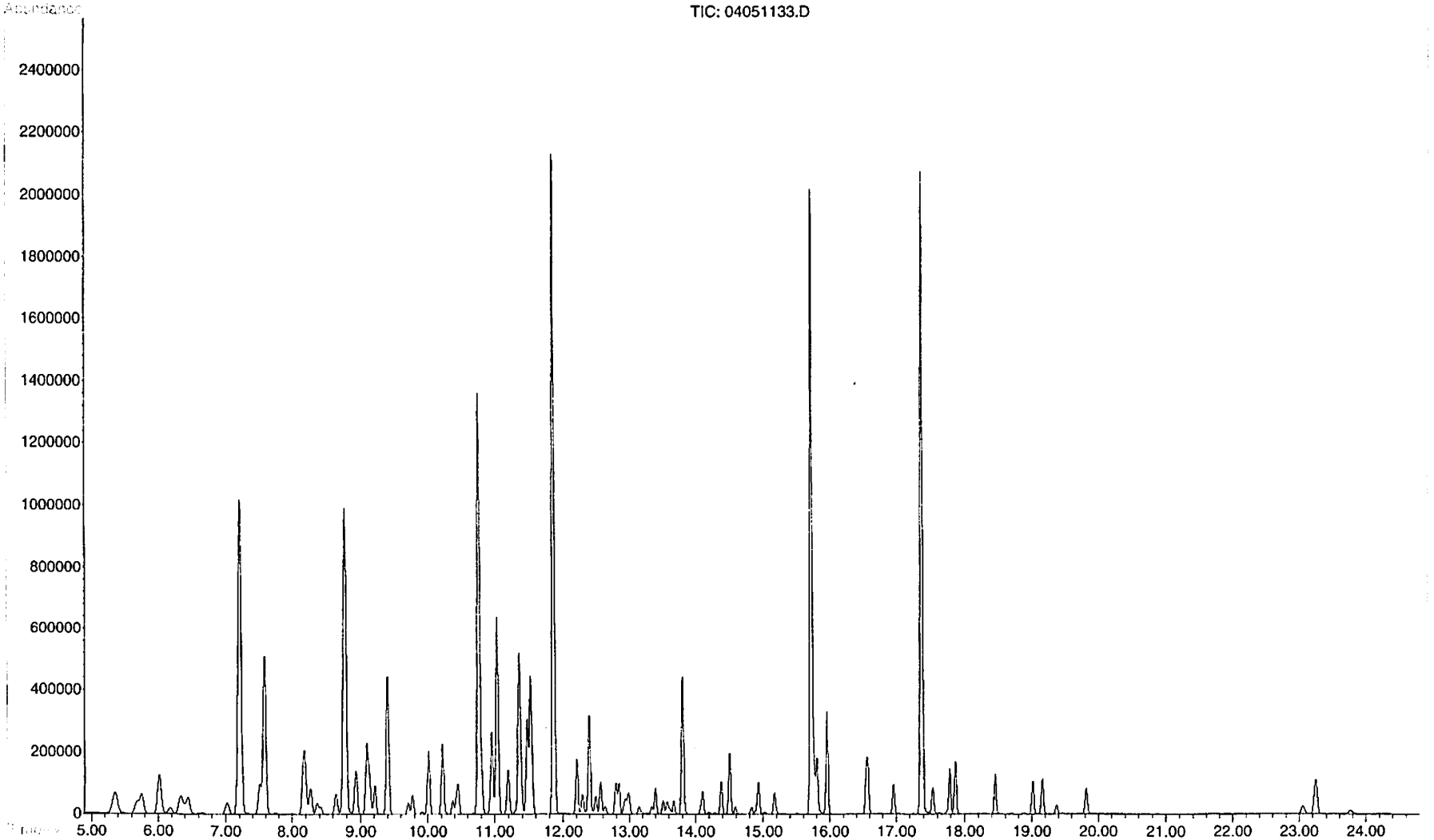
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	270666	1.93	ppbv		93
52) o-Xylene	16.55	91	131193	0.96	ppbv		97
53) Styrene	16.57	104	83266	0.89	ppbv		97
54) Bromoform	16.96	173	68811	0.88	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	62924	0.81	ppbv		97
57) 4-Ethyltoluene	17.78	105	150627	0.92	ppbv		97
58) 1,3,5-Trimethylbenzene	17.86	105	126901	0.94	ppbv		92
59) 1,2,4-Trimethylbenzene	18.45	105	108871	0.91	ppbv		98
60) 1,3-Dichlorobenzene	19.01	146	77571	0.93	ppbv		97
61) 1,4-Dichlorobenzene	19.16	146	76007	0.95	ppbv		98
62) Benzyl chloride	19.38	91	41017	0.78	ppbv		98
63) 1,2-Dichlorobenzene	19.82	146	65530	0.91	ppbv		97
64) 1,2,4-Trichlorobenzene	23.05	180	29453	0.71	ppbv		97
65) Hexachlorobutadiene	23.25	225	60868	0.84	ppbv		98
66) Naphthalene	23.76	128	35032	0.70	ppbv	#	84

(#) = qualifier out of range (m) = manual integration
04051133.D 031611V1.M Thu Apr 14 12:45:41 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040511\04051133.D Vial: 2
Acq On : 6 Apr 2011 9:31 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 9:56 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



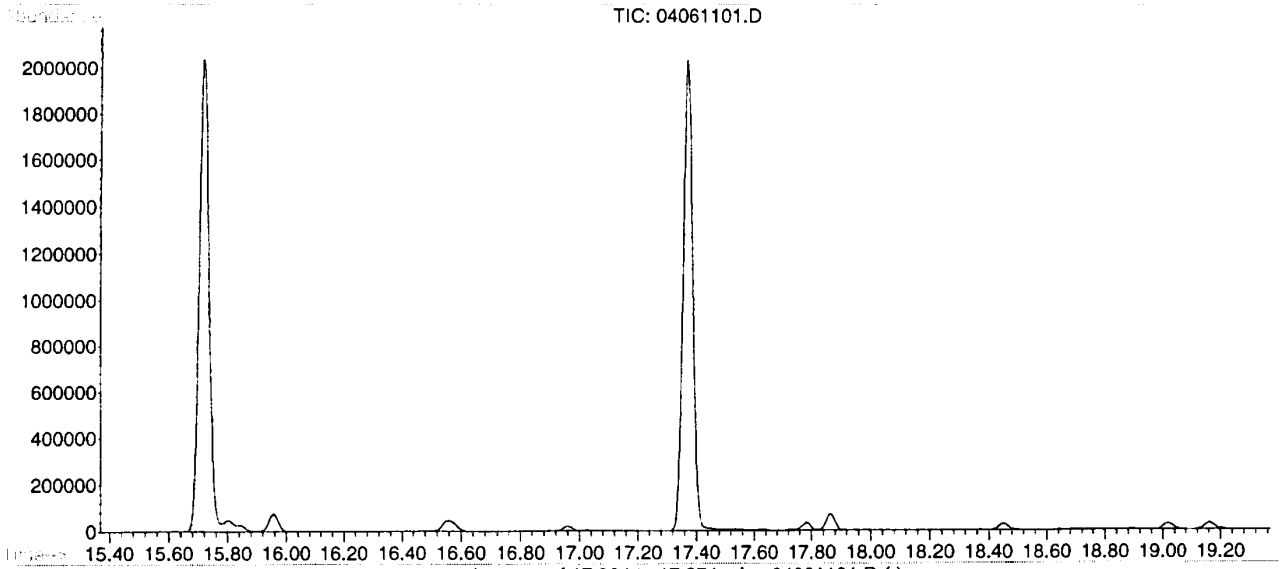
Injection Log

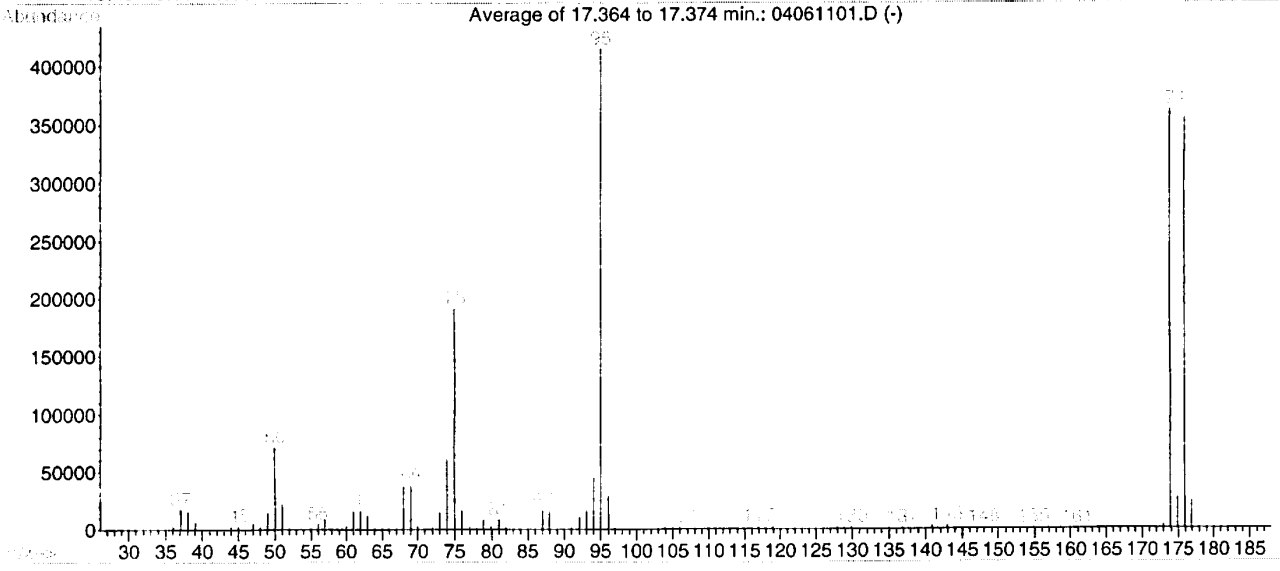
Directory: C:\HPCHEM\1\DATA\040611

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04061101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	6 Apr 2011 10:17
2	2	04061102.d	1.	TO15 CCV 400cc voa010711a	CCV EPA_TO15-UG/M3	6 Apr 2011 11:09
3	2	04061103.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	6 Apr 2011 11:53
4	2	04061104.d	1.	MBLK	MBLK EPA_TO15-UG/M3	6 Apr 2011 13:20
5	3	04061105.d	1.	tedlar bag blank 200cc	MBLK EPA_METH18	6 Apr 2011 14:22
6	4	04061106.d	1.	digital diluter blank		6 Apr 2011 15:08
7	5	04061107.d	2000.	1104113-001A	SAMP EPA_METH18	6 Apr 2011 15:46
8	6	04061108.d	8000.	1103389-018B	SAMP EPA_TO15-UG/M3	6 Apr 2011 16:27
9	5	04061109.d	4000.	1104113-001A	SAMP EPA_METH18	6 Apr 2011 17:07
10	1	04061110.d	8000.	1103389-019B	SAMP EPA_TO15-UG/M3	6 Apr 2011 17:50
11	1	04061111.d	8000.	1103389-019BDUP	DUP EPA_TO15-UG/M3	6 Apr 2011 18:33
12	2	04061112.d	8000.	1103389-020B	SAMP EPA_TO15-UG/M3	6 Apr 2011 19:15
13	3	04061113.d	160000.	1103389-021B	SAMP EPA_TO15-UG/M3	6 Apr 2011 19:58
14	4	04061114.d	40000.	1103389-021B – DATA NOT used EHC 4/15/11	SAMP EPA_TO15-UG/M3	6 Apr 2011 20:41
15	6	04061115.d	40000.	1103389-022B	SAMP EPA_TO15-UG/M3	6 Apr 2011 21:23
16	7	04061116.d	80000.	1103389-023B	SAMP EPA_TO15-UG/M3	6 Apr 2011 22:06
17	8	04061117.d	160000.	1103389-025B	SAMP EPA_TO15-UG/M3	6 Apr 2011 22:48
18	9	04061118.d	160000.	1103389-026B	SAMP EPA_TO15-UG/M3	6 Apr 2011 23:31
19	10	04061119.d	80000.	1103389-027B	SAMP EPA_TO15-UG/M3	7 Apr 2011 00:13
20	11	04061120.d	4000.	1103609-017A	SAMP EPA_TO15-UG/M3	7 Apr 2011 00:56
21	12	04061121.d	80000.	1103609-008A	SAMP EPA_TO15-UG/M3	7 Apr 2011 01:39
22	13	04061122.d	80000.	1103609-009A	SAMP EPA_TO15-UG/M3	7 Apr 2011 02:21
23	14	04061123.d	8000.	1103609-002A – DATA NOT used EHC 4/15/11	SAMP EPA_TO15-UG/M3	7 Apr 2011 03:04
24	15	04061124.d	8000.	1103609-003A – DATA NOT used EHC 4/15/11	SAMP EPA_TO15-UG/M3	7 Apr 2011 03:47
25	16	04061125.d	8000.	1103609-004A – DATA NOT used EHC 4/15/11	SAMP EPA_TO15-UG/M3	7 Apr 2011 04:29
26	17	04061126.d	8000.	1103609-005A	SAMP EPA_TO15-UG/M3	7 Apr 2011 05:12
27	18	04061127.d	8000.	1103609-010A	SAMP EPA_TO15-UG/M3	7 Apr 2011 09:32
28	2	04061128.d	1.	TO15 RLVS 40cc voa031111a	RLVS EPA_TO15-UG/M3	7 Apr 2011 10:15
29	3	04061129.d	1.	CLEAN CHECK BOTTLE VAC 65		7 Apr 2011 11:05
30	3	04071103.d	1.	TO15 ICAL 40cc voa101910d	CCV EPA_TO15-UG/M3	7 Apr 2011 13:16

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040611\04061101.D Vial: 1
Acq On : 6 Apr 2011 10:17 am Operator: Michael Truchan/Rachel Hill
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : TUNE BFB_TUNE Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv





Spectrum Information: Average of 17.364 to 17.374 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	71299	PASS
75	95	30	60	46.0	190549	PASS
95	95	100	100	100.0	414080	PASS
96	95	5	9	7.0	28971	PASS
173	174	0.00	2	0.6	2246	PASS
174	95	50	120	87.2	360960	PASS
175	174	4	9	7.3	26437	PASS
176	174	93	101	98.1	354240	PASS
177	176	5	9	6.7	23651	PASS

04061101.D 031611V1.M Thu Apr 14 13:11:35 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.00
2	T	Propylene	0.937	0.921	1.7	83	0.00
3	T	Dichlorodifluoromethane	3.080	2.889	6.2	79	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.084	8.0	78	0.00
5	T	Chloromethane	1.061	1.245	-17.3	100	0.00
6	T	Vinyl chloride	1.201	1.135	5.5	77	0.00
7	T	1,3-Butadiene	0.945	0.871	7.8	77	0.00
8	T	Bromomethane	1.100	0.606	44.9#	46#	0.00
9	T	Chloroethane	0.640	0.504	21.3	66	0.00
10	T	Trichlorofluoromethane	2.939	2.762	6.0	79	0.00
11	T	Ethanol	0.208	0.226	-8.7	96	0.00
12	T	Freon113	2.361	2.170	8.1	76	0.00
13	T	1,1-Dichloroethene	1.731	1.465	15.4	71	0.00
14	T	Acetone	1.541	1.194	22.5	70	0.00
15	T	Carbon disulfide	3.087	2.686	13.0	73	0.00
16	T	2-Propanol	1.109	1.050	5.3	81	0.00
17	T	Methylene chloride	1.259	1.051	16.5	71	0.00
18	T	tert-Butyl Methyl Ether	2.858	2.130	25.5	68	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.433	12.1	74	0.00
20	T	n-Hexane	1.825	1.473	19.3	68	0.00
21	T	1,1-Dichloroethane	2.005	1.825	9.0	77	0.00
22	T	Vinyl acetate	2.051	1.365	33.4#	59	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.023	10.7	75	0.00
24	T	2-Butanone	1.589	1.289	18.9	75	0.00
25	T	Ethyl acetate	1.982	1.618	18.4	74	0.00
26	T	Tetrahydrofuran	1.042	0.945	9.3	78	0.00
27	T	Chloroform	2.179	1.912	12.3	74	0.00
28	T	1,1,1-Trichloroethane	2.251	2.001	11.1	75	0.00
29	T	Cyclohexane	1.848	1.618	12.4	74	0.00
30	T	Carbon tetrachloride	2.254	2.052	9.0	76	0.00
31	T	Benzene	3.090	2.547	17.6	73	0.00
32	T	1,2-Dichloroethane	1.244	1.051	15.5	73	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
34	T	Heptane	0.604	0.544	9.9	74	0.00
35	T	Trichloroethene	0.426	0.654	-53.5#	127	0.00
36	T	1,2-Dichloropropane	0.301	0.249	17.3	69	0.00
37	T	1,4-Dioxane	0.120	0.099	17.5	69	0.00
38	T	Bromodichloromethane	0.589	0.528	10.4	74	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.376	18.8	68	0.00
40	T	4-Methyl-2-pentanone	0.138	0.131	5.1	78	0.00
41	T	Toluene	0.942	0.817	13.3	75	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.299	21.9	65	0.00
43	T	1,1,2-Trichloroethane	0.307	0.245	20.2	67	0.00
44	T	Tetrachloroethene	0.522	0.484	7.3	76	0.00
45	T	2-Hexanone	0.201	0.256	-27.4	97	0.00
46	T	Chlorodibromomethane	0.515	0.437	15.1	70	0.00
47	T	1,2-Dibromoethane	0.447	0.313	30.0	58	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00
49	T	Chlorobenzene	0.879	0.699	20.5	69	0.00
50	T	Ethylbenzene	1.453	1.240	14.7	77	0.00
51	T	m,p-Xylene	1.125	0.933	17.1	73	0.00
52	T	o-Xylene	1.096	0.912	16.8	74	0.00
53	T	Styrene	0.752	0.663	11.8	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.524	17.0	71	0.00
55	S	4-Bromofluorobenzene	0.627	0.631	-0.6	79	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.086	86.2#	12#	0.00
57	T	4-Ethyltoluene	1.309	1.009	22.9	70	0.00
58	T	1,3,5-Trimethylbenzene	1.080	0.867	19.7	73	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.769	20.3	70	0.00
60	T	1,3-Dichlorobenzene	0.671	0.553	17.6	73	0.00
61	T	1,4-Dichlorobenzene	0.642	0.536	16.5	73	0.00
62	T	Benzyl chloride	0.420	0.102	75.7#	21#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.472	18.6	72	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.263	20.3	64	0.00
65	T	Hexachlorobutadiene	0.578	0.359	37.9#	54	0.00
66		Naphthalene	0.402	0.339	15.7	69	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 11:33 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	606643	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2059428	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1488864	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	939526	12.59	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.72%				
Target Compounds							Qvalue
2) Propylene	5.68	41	455985	10.03	ppbv		100
3) Dichlorodifluoromethane	5.75	85	1290119	8.63	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	960791	8.74	ppbv		94
5) Chloromethane	6.17	50	573975	11.14	ppbv		100
6) Vinyl chloride	6.38	62	517581	8.88	ppbv		100
7) 1,3-Butadiene	6.44	39	414322	9.03	ppbv		100
8) Bromomethane	7.02	94	273426	5.12	ppbv		99
9) Chloroethane	7.17	64	225234	7.25	ppbv		99
10) Trichlorofluoromethane	7.51	101	1286759	9.02	ppbv		99
11) Ethanol	7.74	45	101110	10.03	ppbv		99
12) Freon113	8.17	101	1031933	9.01	ppbv		96
13) 1,1-Dichloroethene	8.27	61	703925	8.38	ppbv		95
14) Acetone	8.36	43	579300	7.75	ppbv		96
15) Carbon disulfide	8.64	76	1264536	8.44	ppbv	#	100
16) 2-Propanol	8.41	45	514804	9.56	ppbv		88
17) Methylene chloride	8.93	49	510238	8.35	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	1023607	7.38	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	681601	8.62	ppbv		93
20) n-Hexane	9.40	57	721864	8.15	ppbv	#	96
21) 1,1-Dichloroethane	9.77	63	859022	8.83	ppbv		99
22) Vinyl acetate	9.70	43	655769	6.59	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	486546	8.75	ppbv		94
24) 2-Butanone	10.42	43	619359	8.03	ppbv		96
25) Ethyl acetate	10.37	43	769400	8.00	ppbv	#	100
26) Tetrahydrofuran	10.76	42	458554	9.07	ppbv		96
27) Chloroform	10.78	83	909401	8.60	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	932351	8.53	ppbv		99
29) Cyclohexane	11.04	56	769555	8.58	ppbv		95
30) Carbon tetrachloride	11.19	117	946141	8.65	ppbv		99
31) Benzene	11.47	78	1186651	7.91	ppbv		99
32) 1,2-Dichloroethane	11.55	62	494628	8.19	ppbv		99
34) Heptane	11.52	43	887274	8.92	ppbv		95
35) Trichloroethene	12.20	130	1034234	14.73	ppbv		97
36) 1,2-Dichloropropane	12.56	63	402203	8.12	ppbv		100
37) 1,4-Dioxane	12.64	88	157062	7.96	ppbv		97
38) Bromodichloromethane	12.84	83	834394	8.60	ppbv		99
39) cis-1,3-Dichloropropene	13.40	75	587907	7.71	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	216197	9.54	ppbv		97
41) Toluene	13.81	91	1318726	8.50	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	448208	7.10	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	395263	7.82	ppbv		98
44) Tetrachloroethene	14.51	166	765501	8.90	ppbv		100
45) 2-Hexanone	14.58	43	413765	12.47	ppbv		98
46) Chlorodibromomethane	14.93	129	705047	8.31	ppbv		100
47) 1,2-Dibromoethane	15.16	107	495625	6.73	ppbv		99
49) Chlorobenzene	15.76	112	823804	7.87	ppbv	#	94
50) Ethylbenzene	15.80	91	1447862	8.36	ppbv		96

(#) = qualifier out of range (m) = manual integration
04061102.D 031611V1.M Thu Apr 14 13:13:15 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 11:33 2011 Quant Results File: 031611V1.RES

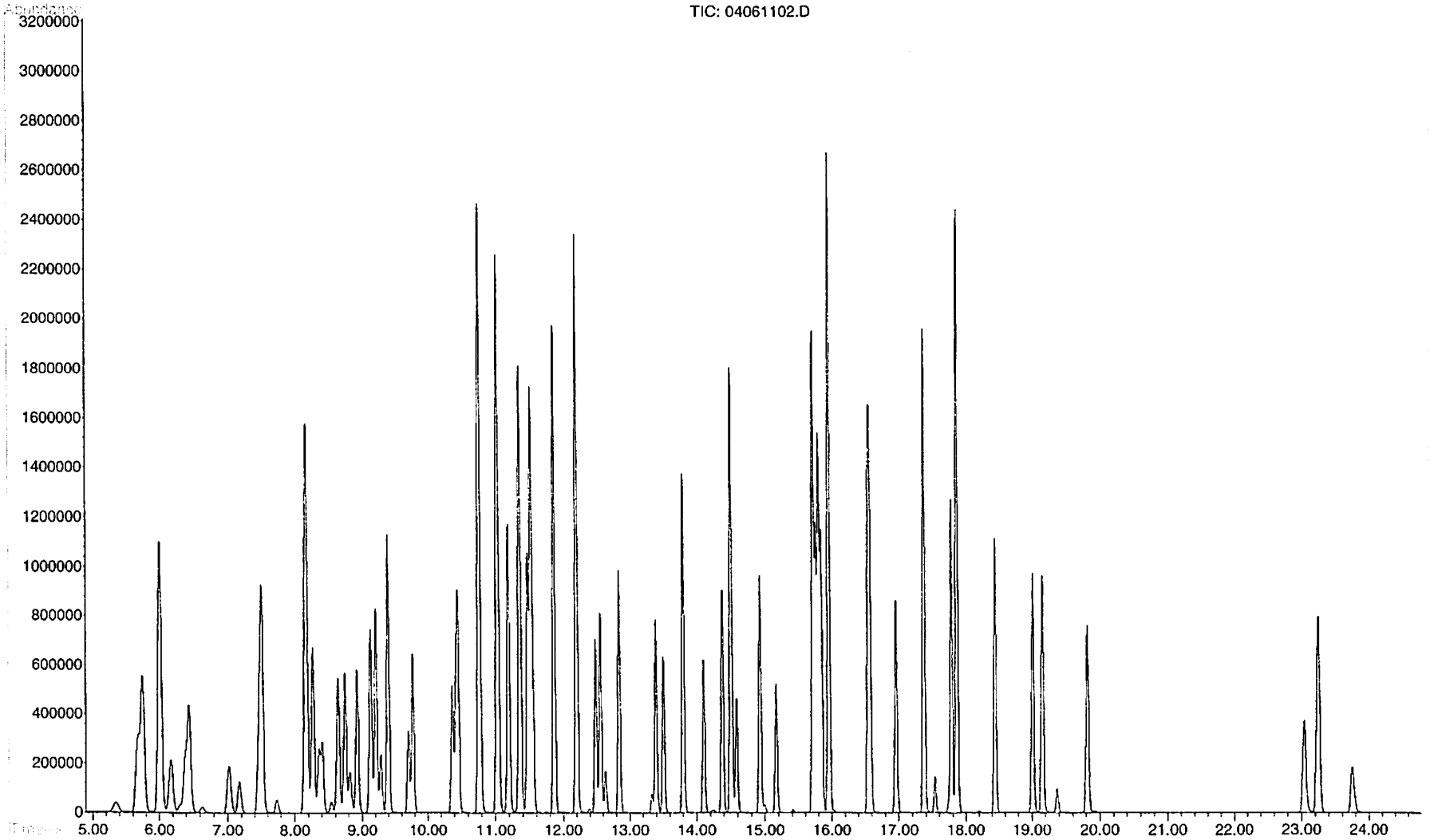
Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	2134594	15.93	ppbv		95
52)	o-Xylene	16.55	91	1085895	8.32	ppbv		95
53)	Styrene	16.58	104	774233	8.64	ppbv		98
54)	Bromoform	16.96	173	599357	7.98	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	101977	1.38	ppbv		99
57)	4-Ethyltoluene	17.78	105	1177328	7.55	ppbv		98
58)	1,3,5-Trimethylbenzene	17.86	105	1001160	7.78	ppbv	#	55
59)	1,2,4-Trimethylbenzene	18.45	105	897728	7.81	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	639425	8.00	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	613242	8.02	ppbv		99
62)	Benzyl chloride	19.37	91	117293	2.35	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	545132	7.90	ppbv		98
64)	1,2,4-Trichlorobenzene	23.04	180	285432	7.25	ppbv		99
65)	Hexachlorobutadiene	23.25	225	402245	5.84	ppbv		99
66)	Naphthalene	23.75	128	371015	7.75	ppbv		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040611\04061102.D Vial: 2
Acq On : 6 Apr 2011 11:09 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 400cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 11:33 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061103.D Vial: 2
Acq On : 6 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 12:18 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	599834	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2138885	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1500764	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	945912	12.58	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.64%				
Target Compounds							Qvalue
2) Propylene	5.68	41	50589	1.13	ppbv		98
3) Dichlorodifluoromethane	5.75	85	147140	1.00	ppbv	#	96
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	110873	1.02	ppbv		95
5) Chloromethane	6.18	50	53506	1.05	ppbv	#	95
6) Vinyl chloride	6.39	62	60249	1.05	ppbv	#	97
7) 1,3-Butadiene	6.44	39	50272	1.11	ppbv		98
8) Bromomethane	7.02	94	53346	1.01	ppbv		99
9) Chloroethane	7.18	64	29836	0.97	ppbv	#	98
10) Trichlorofluoromethane	7.51	101	147392	1.05	ppbv		98
11) Ethanol	7.75	45	10268	1.03	ppbv	#	93
12) Freon113	8.17	101	112746	1.00	ppbv		98
13) 1,1-Dichloroethene	8.27	61	90792	1.09	ppbv		94
14) Acetone	8.36	43	75861	1.03	ppbv	#	94
15) Carbon disulfide	8.64	76	152752	1.03	ppbv	#	98
16) 2-Propanol	8.42	45	45853	0.86	ppbv	#	1
17) Methylene chloride	8.92	49	67728	1.12	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	138321	1.01	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	80343	1.03	ppbv		94
20) n-Hexane	9.39	57	91787	1.05	ppbv		94
21) 1,1-Dichloroethane	9.77	63	94081	0.98	ppbv		98
22) Vinyl acetate	9.70	43	84338	0.86	ppbv	#	97
23) cis-1,2-Dichloroethene	10.46	96	54016	0.98	ppbv		94
24) 2-Butanone	10.42	43	76437	1.00	ppbv	#	91
25) Ethyl acetate	10.37	43	77758	0.82	ppbv	#	100
26) Tetrahydrofuran	10.77	42	46968	0.94	ppbv		94
27) Chloroform	10.77	83	108342	1.04	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	110115	1.02	ppbv		98
29) Cyclohexane	11.04	56	91510	1.03	ppbv		95
30) Carbon tetrachloride	11.19	117	107444	0.99	ppbv		99
31) Benzene	11.47	78	143406	0.97	ppbv		98
32) 1,2-Dichloroethane	11.55	62	62164	1.04	ppbv		96
34) Heptane	11.52	43	111166	1.08	ppbv		93
35) Trichloroethene	12.20	130	73001	1.00	ppbv		98
36) 1,2-Dichloropropane	12.56	63	50343	0.98	ppbv		99
37) 1,4-Dioxane	12.65	88	20550	1.00	ppbv		98
38) Bromodichloromethane	12.85	83	98010	0.97	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	73553	0.93	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	16512	0.70	ppbv		96
41) Toluene	13.80	91	167363	1.04	ppbv		97
42) trans-1,3-Dichloropropene	14.10	75	56370	0.86	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	52199	0.99	ppbv		98
44) Tetrachloroethene	14.51	166	96093	1.08	ppbv		99
45) 2-Hexanone	14.59	43	27326	0.79	ppbv		96
46) Chlorodibromomethane	14.93	129	86201	0.98	ppbv		99
47) 1,2-Dibromoethane	15.16	107	74674	0.98	ppbv		99
49) Chlorobenzene	15.76	112	110056	1.04	ppbv	#	83
50) Ethylbenzene	15.80	91	184376	1.06	ppbv		94

(#) = qualifier out of range (m) = manual integration
04061103.D 031611V1.M Thu Apr 14 13:13:26 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061103.D Vial: 2
Acq On : 6 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 12:18 2011 Quant Results File: 031611V1.RES

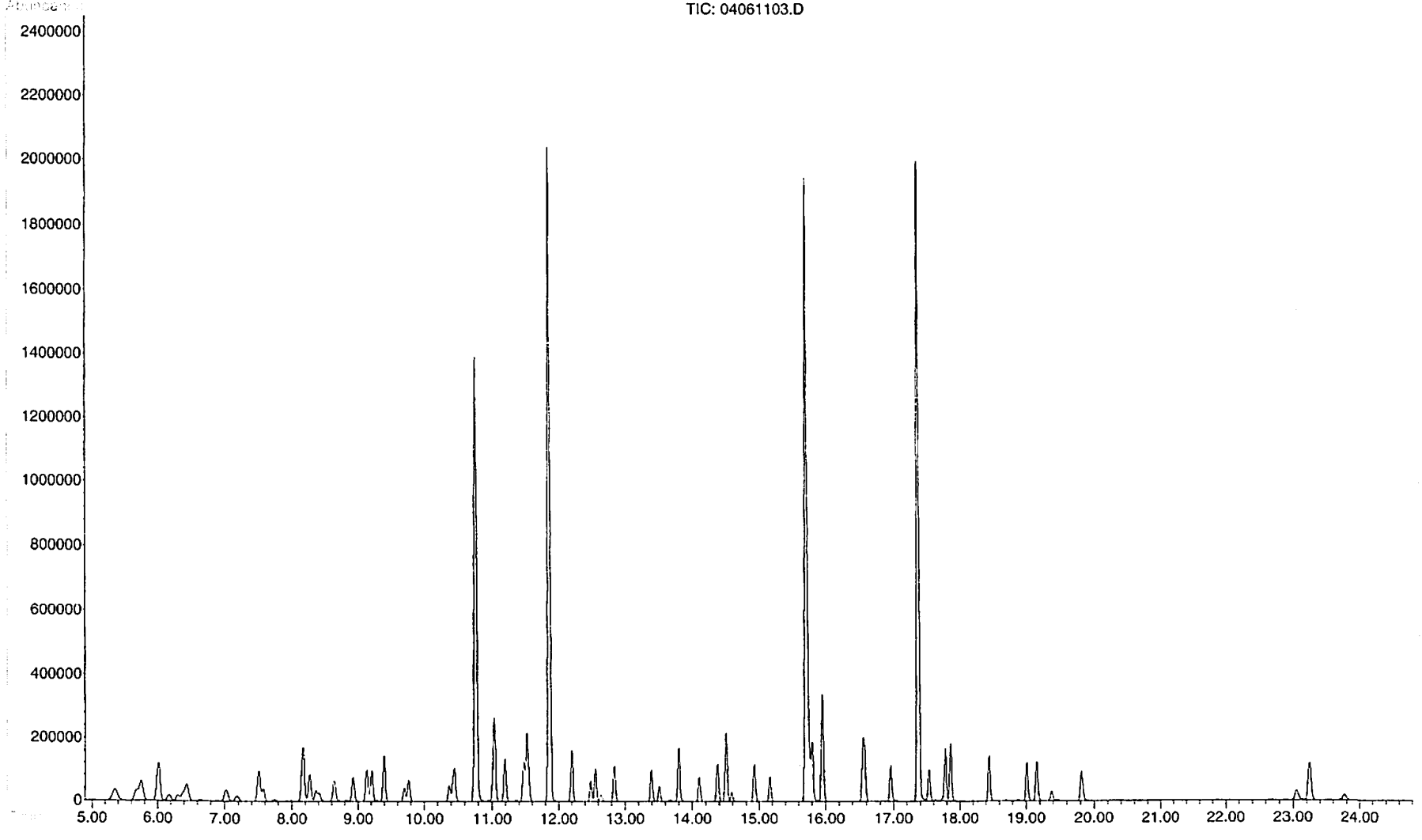
Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51) m,p-Xylene	15.96	91	283114	2.10 ppbv	93
52) o-Xylene	16.55	91	141049	1.07 ppbv	97
53) Styrene	16.58	104	92515	1.02 ppbv	98
54) Bromoform	16.96	173	77552	1.02 ppbv	98
56) 1,1,2,2-Tetrachloroethane	17.53	83	71217	0.95 ppbv	98
57) 4-Ethyltoluene	17.78	105	168103	1.07 ppbv	96
58) 1,3,5-Trimethylbenzene	17.86	105	141384	1.09 ppbv	94
59) 1,2,4-Trimethylbenzene	18.45	105	121584	1.05 ppbv	97
60) 1,3-Dichlorobenzene	19.01	146	86084	1.07 ppbv	97
61) 1,4-Dichlorobenzene	19.16	146	85245	1.11 ppbv	97
62) Benzyl chloride	19.38	91	45836	0.91 ppbv	97
63) 1,2-Dichlorobenzene	19.82	146	72885	1.05 ppbv	97
64) 1,2,4-Trichlorobenzene	23.06	180	34159	0.86 ppbv	96
65) Hexachlorobutadiene	23.24	225	62872	0.91 ppbv	99
66) Naphthalene	23.77	128	47607	0.99 ppbv #	84

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040611\04061103.D Vial: 2
Acq On : 6 Apr 2011 11:53 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 12:18 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061104.D Vial: 2
Acq On : 6 Apr 2011 1:20 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 13:44 2011 Quant Results File: 031611V1.RES

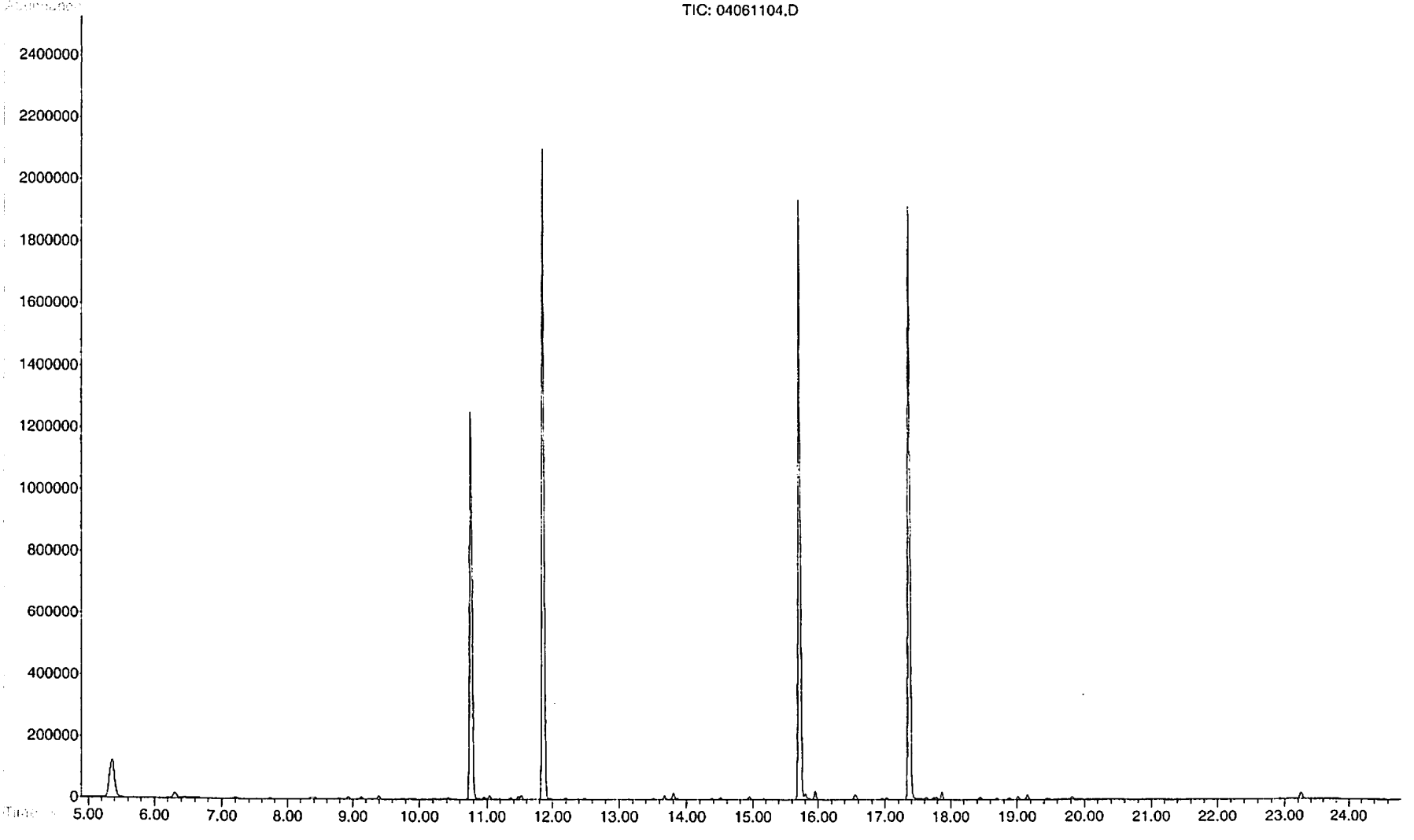
Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	584673	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2147567	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.71	117	1485705	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	907842	12.19	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.52%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
04061104.D 031611V1.M Thu Apr 14 13:13:33 2011 Page 1

Data File : C:\HPCHEM\1\DATA\040611\04061104.D Vial: 2
Acq On : 6 Apr 2011 1:20 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK Inst : GC/MS Ins
Misc : MBLK EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 6 13:44 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

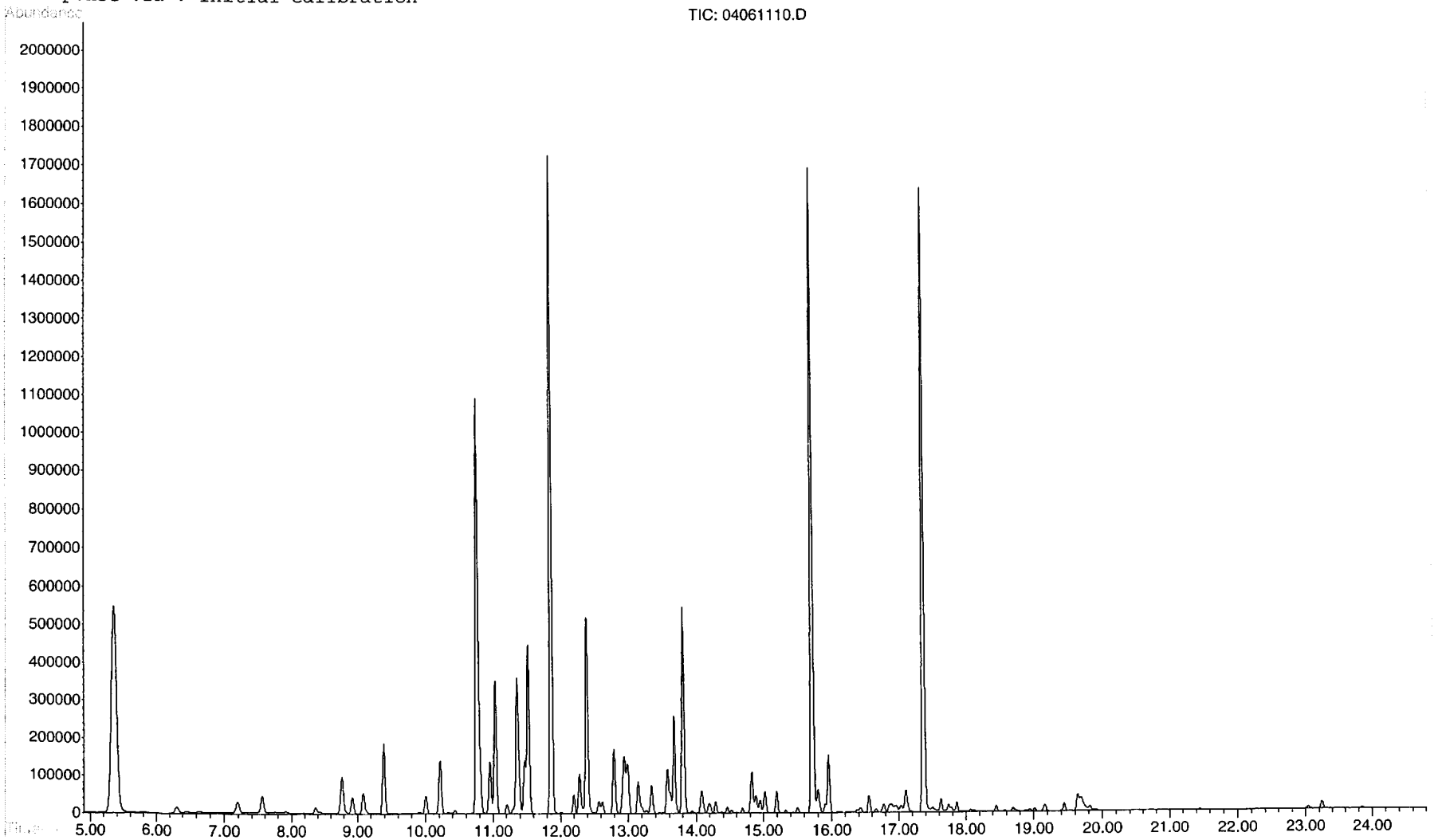
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	490678	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1746666	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1202987	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	756220	12.54	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.32%				
Target Compounds							Qvalue
14) Acetone	8.37	43	34410	0.57	ppbv	#	94
17) Methylene chloride	8.92	49	26757	0.54	ppbv		93
20) n-Hexane	9.39	57	117489	1.64	ppbv		95
29) Cyclohexane	11.04	56	162228	2.24	ppbv	#	76
31) Benzene	11.47	78	103442	0.85	ppbv		94
34) Heptane	11.52	43	208150	2.47	ppbv	#	93
41) Toluene	13.80	91	505184	3.84	ppbv		98
51) m,p-Xylene	15.95	91	116968	1.08	ppbv		93

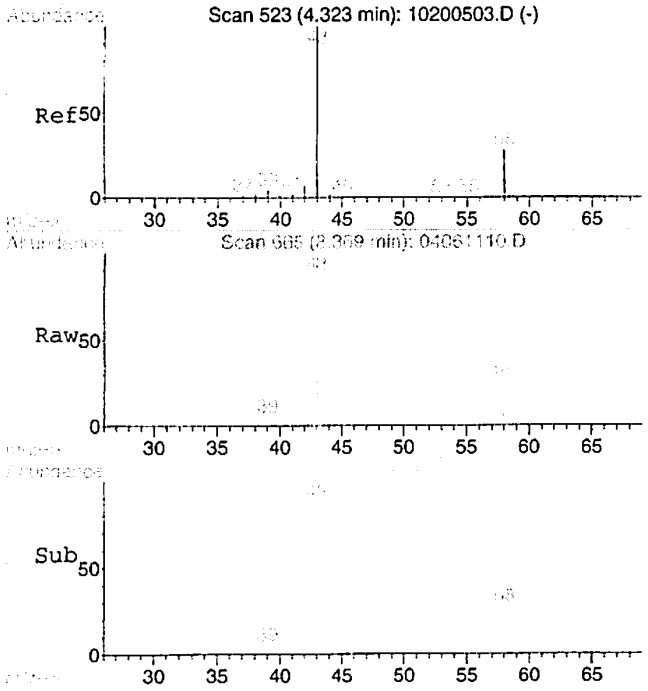
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

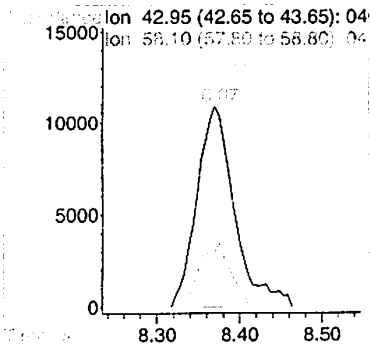


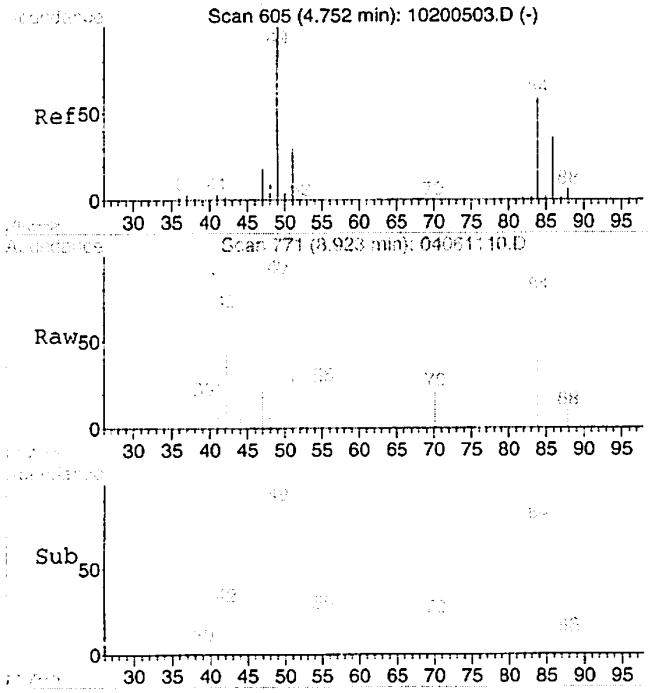


#14
Acetone
Concen: 0.57 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 43 Resp: 34410

Ion	Ratio	Lower	Upper
43	100		
58	26.4	22.0	33.0
39	1.6	6.5	9.7#

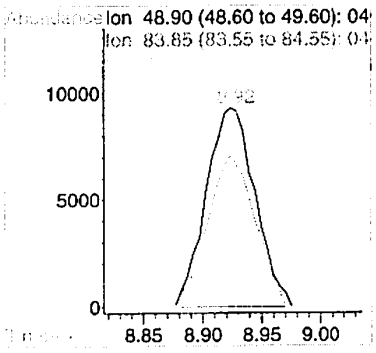


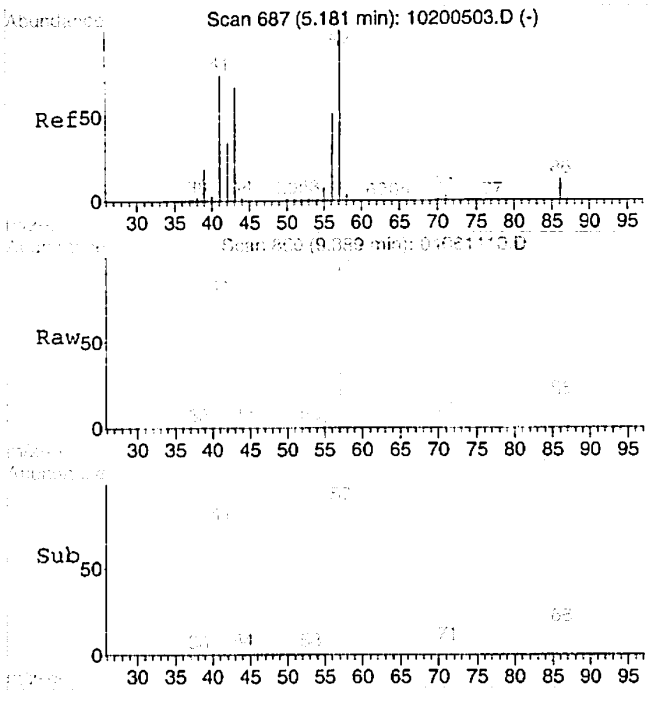


#17
Methylene chloride
Concen: 0.54 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 49 Resp: 26757

Ion	Ratio	Lower	Upper
49	100		
84	74.2	65.4	98.2
86	48.8	42.3	63.5

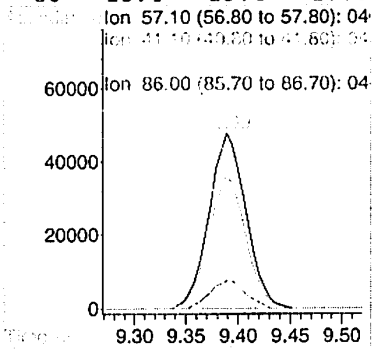


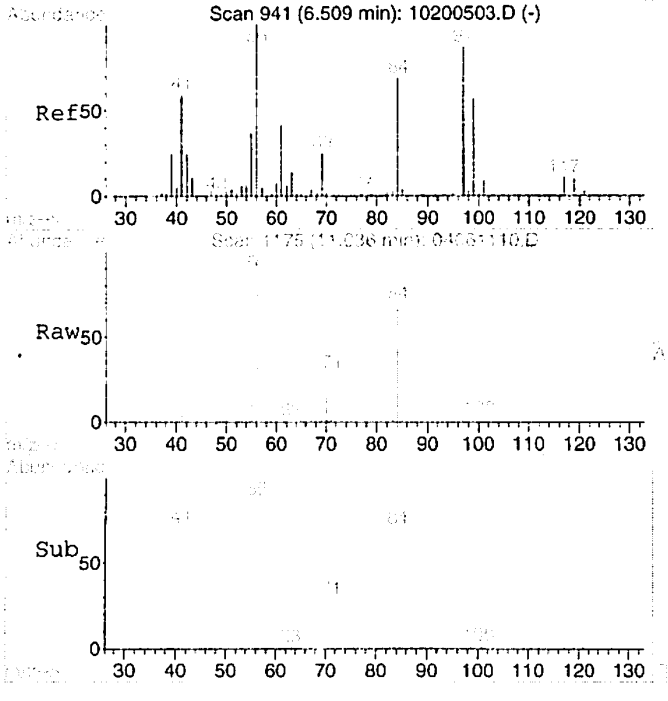


#20
n-Hexane
Concen: 1.64 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 57 Resp: 117489

Ion	Ratio	Lower	Upper
57	100		
41	76.4	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

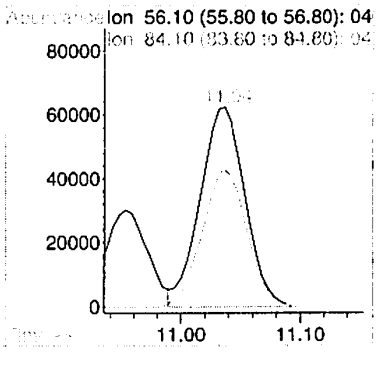


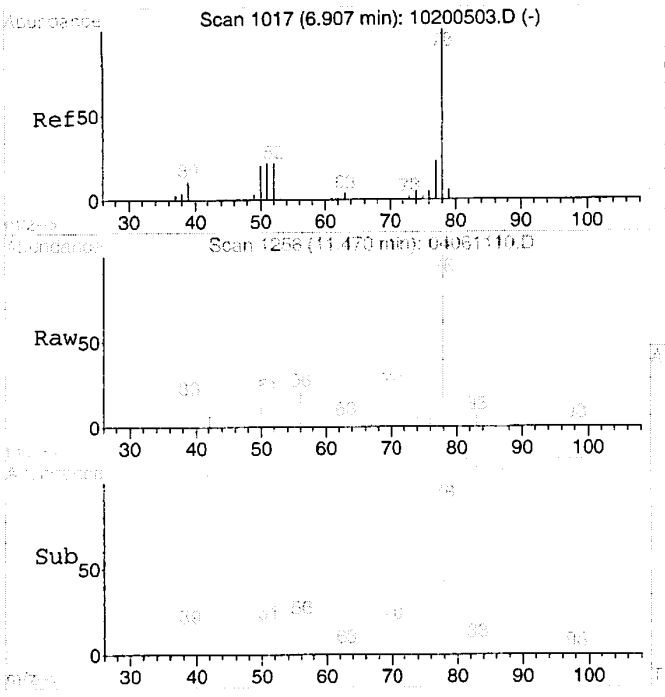


#29
Cyclohexane
Concen: 2.24 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 56 Resp: 162228

Ion	Ratio	Lower	Upper
56	100		
84	68.3	72.4	108.6#
41	72.9	43.8	65.8#

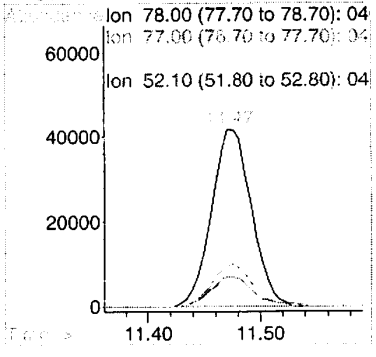


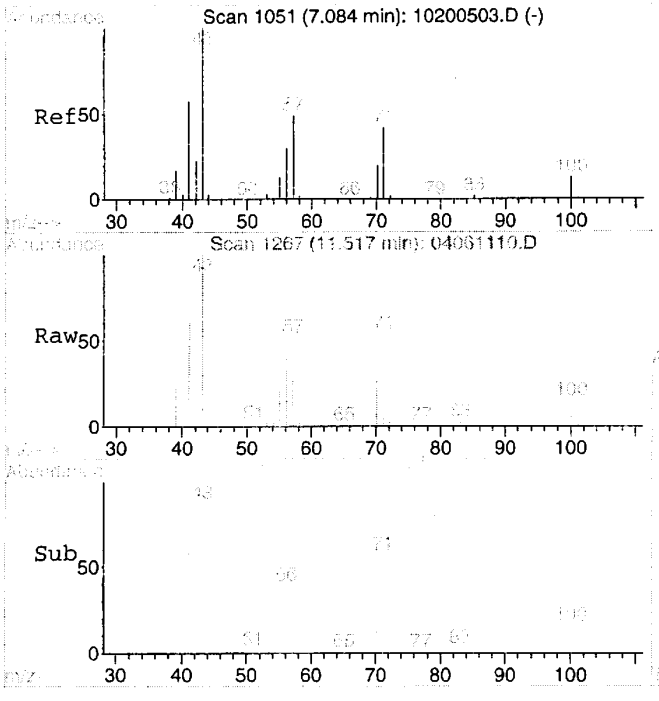


#31
Benzene
Concen: 0.85 ppbv
RT: 11.47 min Scan# 1258
Delta R.T. 0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 78 Resp: 103442

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	21.9	0.0	36.1
52	18.3	0.0	36.0

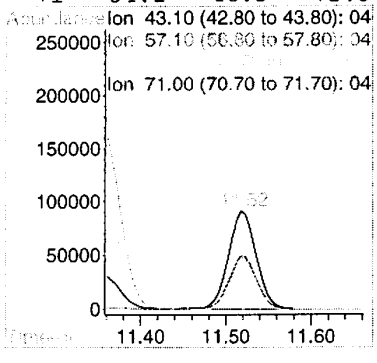


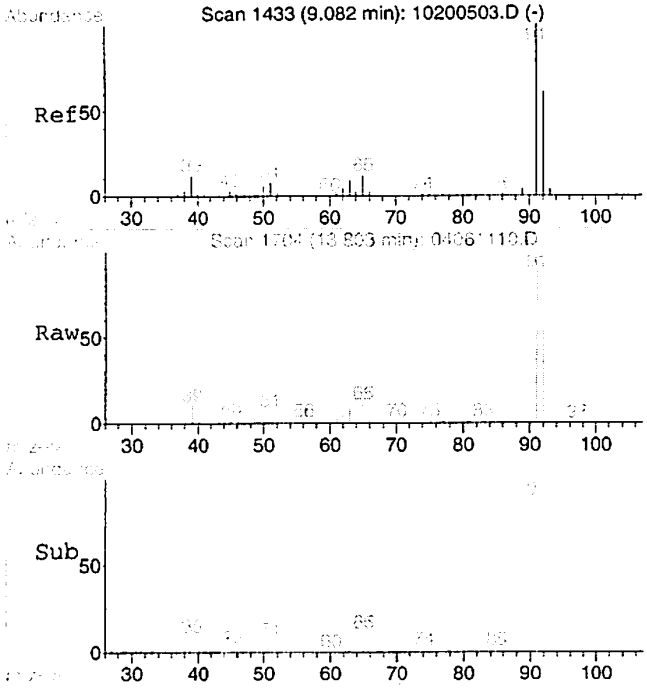


#34
Heptane
Concen: 2.47 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 43 Resp: 208150

Ion	Ratio	Lower	Upper
43	100		
57	54.1	42.2	63.4
100	15.2	17.3	25.9#
71	54.1	48.3	72.5

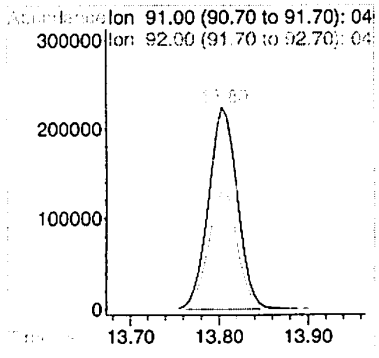


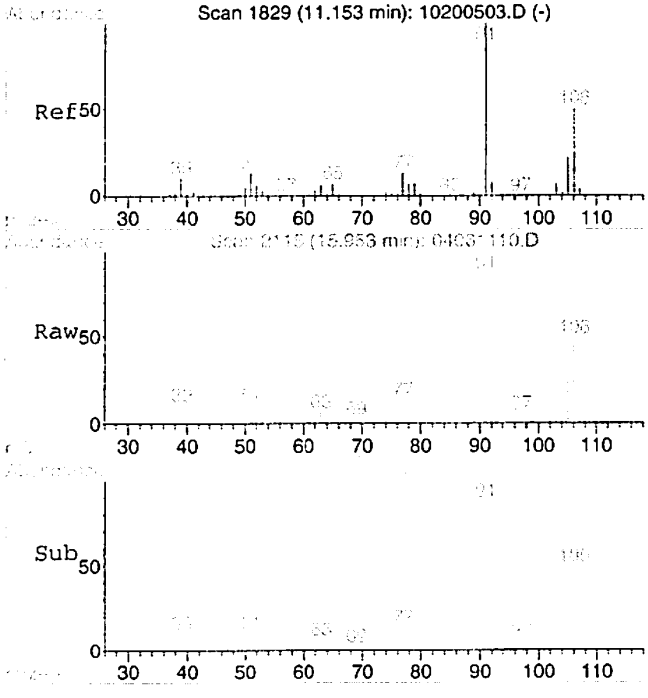


#41
Toluene
Concen: 3.84 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 91 Resp: 505184

Ion	Ratio	Lower	Upper
91	100		
92	58.6	40.5	80.5
65	11.2	0.0	31.2

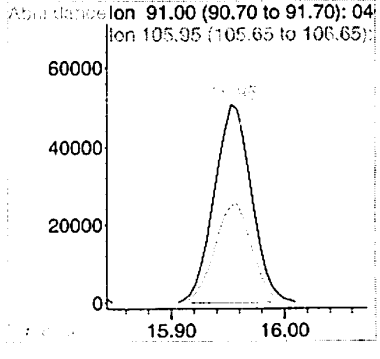




#51
m,p-Xylene
Concen: 1.08 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04061110.D
Acq: 6 Apr 2011 5:50 pm

Tgt Ion: 91 Resp: 116968

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.2	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.351	59	88	130	rBV	549180	3038471	77.61%	9.860%
2	6.308	259	271	283	rBV4	16893	60322	1.54%	0.196%
3	7.187	428	439	453	rVB2	27180	90685	2.32%	0.294%
4	7.564	497	511	523	rBV3	43526	134854	3.44%	0.438%
5	8.374	655	666	673	rBV2	15679	45948	1.17%	0.149%
6	8.766	726	741	761	rVV3	97667	316788	8.09%	1.028%
7	8.929	761	772	785	rVB3	43401	118106	3.02%	0.383%
8	9.085	793	802	821	rVB2	53289	158424	4.05%	0.514%
9	9.389	850	860	873	rBV	186857	464192	11.86%	1.506%
10	10.006	968	978	988	rVB	45667	120240	3.07%	0.390%
11	10.215	1007	1018	1032	rVB	140097	364830	9.32%	1.184%
12	10.764	1111	1123	1141	rVB	1092191	2922430	74.65%	9.484%
13	10.953	1147	1159	1166	rBV	136905	350286	8.95%	1.137%
14	11.036	1166	1175	1187	rVB	351720	899438	22.97%	2.919%
15	11.209	1200	1208	1216	rBB2	24354	61701	1.58%	0.200%
16	11.361	1217	1237	1250	rBV	359912	1093673	27.93%	3.549%
17	11.470	1250	1258	1261	rVV2	140763	320117	8.18%	1.039%
18	11.523	1261	1268	1280	rVB2	447802	1106452	28.26%	3.591%
19	11.863	1322	1333	1347	rBV	1729006	3915101	100.00%	12.705%
20	12.197	1389	1397	1405	rBV4	49670	115236	2.94%	0.374%
21	12.286	1405	1414	1423	rVV2	103851	268295	6.85%	0.871%
22	12.391	1424	1434	1451	rVB2	517514	1300462	33.22%	4.220%
23	12.574	1458	1469	1474	rBV4	32521	87712	2.24%	0.285%
24	12.626	1474	1479	1487	rVB2	31307	65972	1.69%	0.214%
25	12.794	1501	1511	1525	rBB2	170728	431913	11.03%	1.402%
26	12.945	1526	1540	1544	rBV5	150782	444726	11.36%	1.443%
27	13.149	1570	1579	1595	rBV	83490	248017	6.33%	0.805%
28	13.338	1607	1615	1628	rVB2	73145	180454	4.61%	0.586%
29	13.573	1650	1660	1666	rBV2	115409	296397	7.57%	0.962%
30	13.672	1672	1679	1694	rVB	256938	564006	14.41%	1.830%
31	13.803	1694	1704	1721	rVB	545635	1289309	32.93%	4.184%
32	14.075	1748	1756	1769	rVB6	57508	163107	4.17%	0.529%
33	14.195	1769	1779	1788	rBV6	24374	77144	1.97%	0.250%
34	14.284	1788	1796	1804	rBV2	29775	62464	1.60%	0.203%
35	14.828	1888	1900	1906	rBV2	108448	273942	7.00%	0.889%
36	14.891	1907	1912	1917	rVV2	45615	102782	2.63%	0.334%
37	14.948	1917	1923	1930	rVV3	33253	86143	2.20%	0.280%
38	15.022	1930	1937	1946	rVB3	57505	140455	3.59%	0.456%
39	15.200	1960	1971	1980	rBV3	56710	133105	3.40%	0.432%
40	15.717	2059	2070	2081	rBV	1695626	3852340	98.40%	12.501%
41	15.801	2081	2086	2098	rVV2	61332	158448	4.05%	0.514%
42	15.906	2098	2106	2108	rVV3	23282	43634	1.11%	0.142%
43	15.958	2108	2116	2126	rVB	152430	363624	9.29%	1.180%

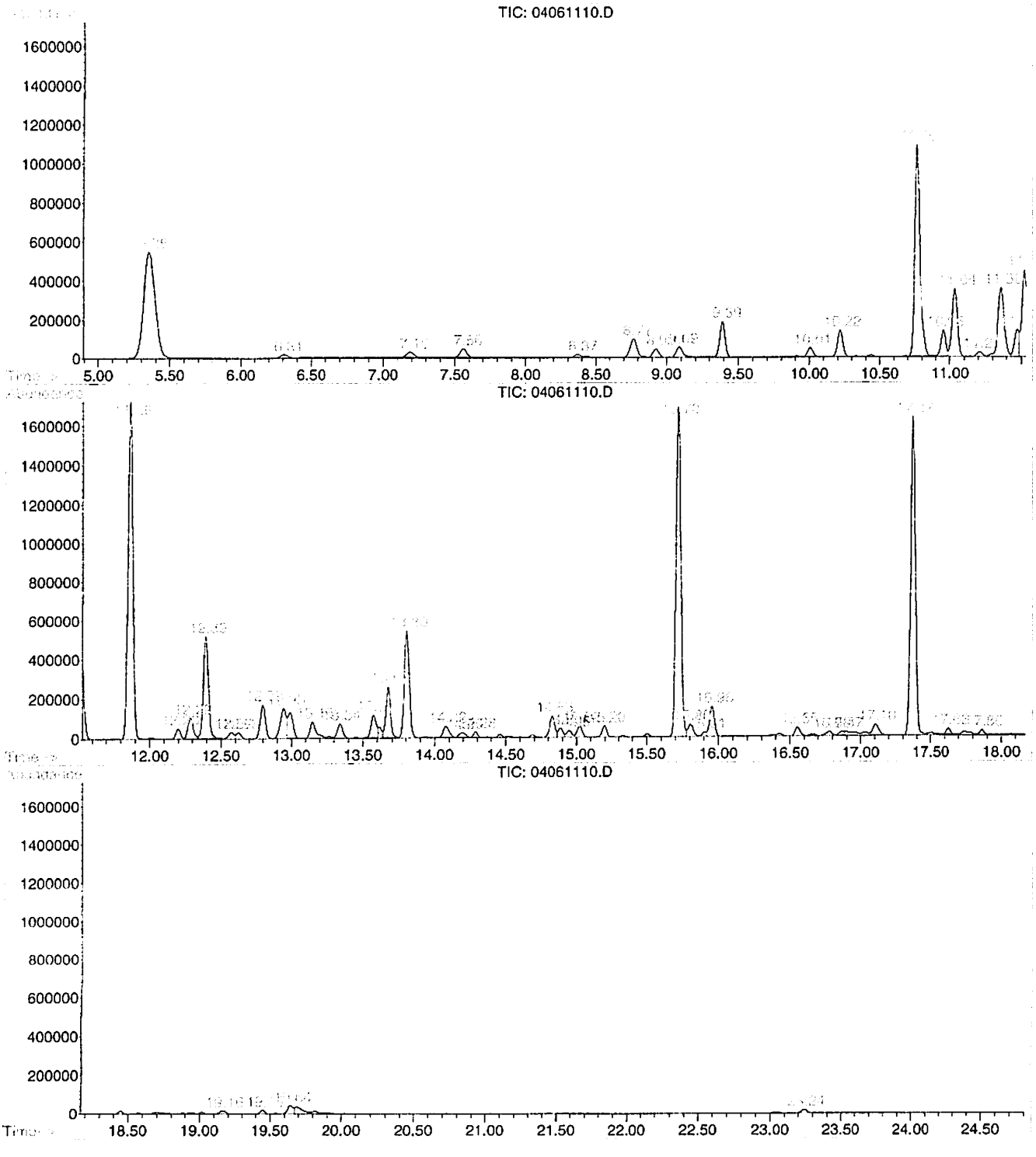
44	16.549	2221	2229	2240	rBB2	44060	106014	2.71%	0.344%
45	16.779	2261	2273	2280	rBV7	21360	61187	1.56%	0.199%
46	16.868	2280	2290	2293	rBV5	20486	53969	1.38%	0.175%
47	17.103	2327	2335	2351	rVB	55867	162748	4.16%	0.528%
48	17.370	2374	2386	2406	rBV	1642798	3709775	94.76%	12.039%
49	17.626	2428	2435	2443	rVB2	31422	63236	1.62%	0.205%
50	17.862	2472	2480	2489	rVB2	25501	52985	1.35%	0.172%
51	19.159	2719	2728	2739	rBV7	17159	50029	1.28%	0.162%
52	19.446	2776	2783	2792	rVB2	20701	43906	1.12%	0.142%
53	19.640	2810	2820	2826	rBV2	44073	129055	3.30%	0.419%
54	23.238	3499	3508	3518	rBB3	18984	51244	1.31%	0.166%

Sum of corrected areas: 30815893

04061110.D 031611V1.M Thu Apr 14 13:14:16 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061110.D
Operator : Michael Truchan/Rachel Hill
Acquired : 6 Apr 2011 5:50 pm using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103389-019B
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 1
Quant File :031611V1.RES (RTE Integrator)



04061110.D 031611V1.M Thu Apr 14 13:14:17 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	13.00 ppbv	3038470	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane $$ n-Pentane $$ Skelly Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	0.58 ppbv	134854	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	56
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	9
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	7

****

Peak Number 3 Pentane, 2-methyl- $$ Isohexan Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	1.35 ppbv	316788	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	0.68 ppbv	158424	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	83
2	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	83
3	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	43
4	Propanedioic acid, oxo-, bis(2-meth	230	C11H18O5	092778-43-3	12
5	Diazene, bis(1,1-dimethylethyl)- $$	142	C8H18N2	000927-83-3	9

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	0.51 ppbv	120240	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	50
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	45

****

Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	1.56 ppbv	364830	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	1.50 ppbv	350286	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 8 Butane, 2,2,3,3-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	3.49 ppbv	1093670	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 9 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	0.86 ppbv	268295	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	50
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	38
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	37
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	37
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	32

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	4.15 ppbv	1300460	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
4	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59
5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	58

****

Peak Number 11 Pentane, 2,3,4-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	1.38 ppbv	431913	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
2	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	64
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59

****

Peak Number 12 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	1.42 ppbv	444726	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	80
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	74
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	72
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D Vial: 1
Acq On : 6 Apr 2011 5:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019B Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	0.79 ppbv	248017	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	64
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	64
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47
5	Heptane, 4-ethyl- $$ 4-Ethylheptane	128	C9H20	002216-32-2	47

****

Peak Number 14 Hexane, 2,2,5-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	0.58 ppbv	180454	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
3	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 15 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.95 ppbv	296397	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	87
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	86

Data File : C:\HPCHEM\1\DATA\040611\04061110.D
Acq On : 6 Apr 2011 5:50 pm
Sample : 1103389-019B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.80 ppbv	564006	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
3	Octane	114	C8H18	000111-65-9	64
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	56
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	50

****

Peak Number 17 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.07	0.53 ppbv	163107	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	95
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87

****

Peak Number 18 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.89 ppbv	273942	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061110.D
Acq On : 6 Apr 2011 5:50 pm
Sample : 1103389-019B
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Ethylbenzene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	0.51 ppbv	158448	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	91
2	Ethylbenzene $$ Benzene, ethyl- $$	106	C8H10	000100-41-4	90
3	Ethylbenzene	106	C8H10	000100-41-4	80
4	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	53
5	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	53

****

Peak Number 20 Acetamide, N,N-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.10	0.53 ppbv	162748	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, N,N-dimethyl-	87	C4H9NO	000127-19-5	90
2	Acetamide, N,N-dimethyl-	87	C4H9NO	000127-19-5	83
3	2-Propanone, O-methyloxime $$ Aceto	87	C4H9NO	003376-35-0	25
4	Acetamide, N,N-dimethyl- $$ Acetdim	87	C4H9NO	000127-19-5	17
5	Hexanal $$ n-Caproaldehyde $$ n-Hex	100	C6H12O	000066-25-1	9

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 6 Apr 2011 5:50 pm
Data File: C:\HPCHEM\1\DATA\040611\04061110.D
Name: 1103389-019B
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	13.0	ppbv	3038470	ISTD01	10.76	2922430	12.5
Pentane $$ n-Pentane	7.56	0.6	ppbv	134854	ISTD01	10.76	2922430	12.5
Pentane, 2-methyl- $	8.77	1.4	ppbv	316788	ISTD01	10.76	2922430	12.5
Pentane, 3-methyl-	9.09	0.7	ppbv	158424	ISTD01	10.76	2922430	12.5
Pentane, 2,4-dimethy	10.01	0.5	ppbv	120240	ISTD01	10.76	2922430	12.5
Cyclopentane, methyl	10.22	1.6	ppbv	364830	ISTD01	10.76	2922430	12.5
Pentane, 2,3-dimethy	10.95	1.5	ppbv	350286	ISTD01	10.76	2922430	12.5
Butane, 2,2,3,3-tetr	11.36	3.5	ppbv	1093670	ISTD02	11.86	3915100	12.5
Hexane, 2,4-dimethyl	12.29	0.9	ppbv	268295	ISTD02	11.86	3915100	12.5
Cyclohexane, methyl-	12.39	4.2	ppbv	1300460	ISTD02	11.86	3915100	12.5
Pentane, 2,3,4-trime	12.79	1.4	ppbv	431913	ISTD02	11.86	3915100	12.5
Heptane, 2-methyl-	12.95	1.4	ppbv	444726	ISTD02	11.86	3915100	12.5
Heptane, 3-methyl-	13.15	0.8	ppbv	248017	ISTD02	11.86	3915100	12.5
Hexane, 2,2,5-trimet	13.34	0.6	ppbv	180454	ISTD02	11.86	3915100	12.5
Cyclohexane, 1,3-dim	13.57	0.9	ppbv	296397	ISTD02	11.86	3915100	12.5
Octane	13.67	1.8	ppbv	564006	ISTD02	11.86	3915100	12.5
Cyclohexane, 1,2-dim	14.07	0.5	ppbv	163107	ISTD03	15.72	3852340	12.5
Cyclohexane, ethyl-	14.83	0.9	ppbv	273942	ISTD03	15.72	3852340	12.5
Ethylbenzene	15.80	0.5	ppbv	158448	ISTD03	15.72	3852340	12.5
Acetamide, N,N-dimet	17.10	0.5	ppbv	162748	ISTD03	15.72	3852340	12.5

04061110.D 031611V1.M Thu Apr 14 13:14:17 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061111.D
Acq On : 6 Apr 2011 6:33 pm
Sample : 1103389-019BDUP
Misc : DUP EPA_TO15-UG/M3
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00
Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

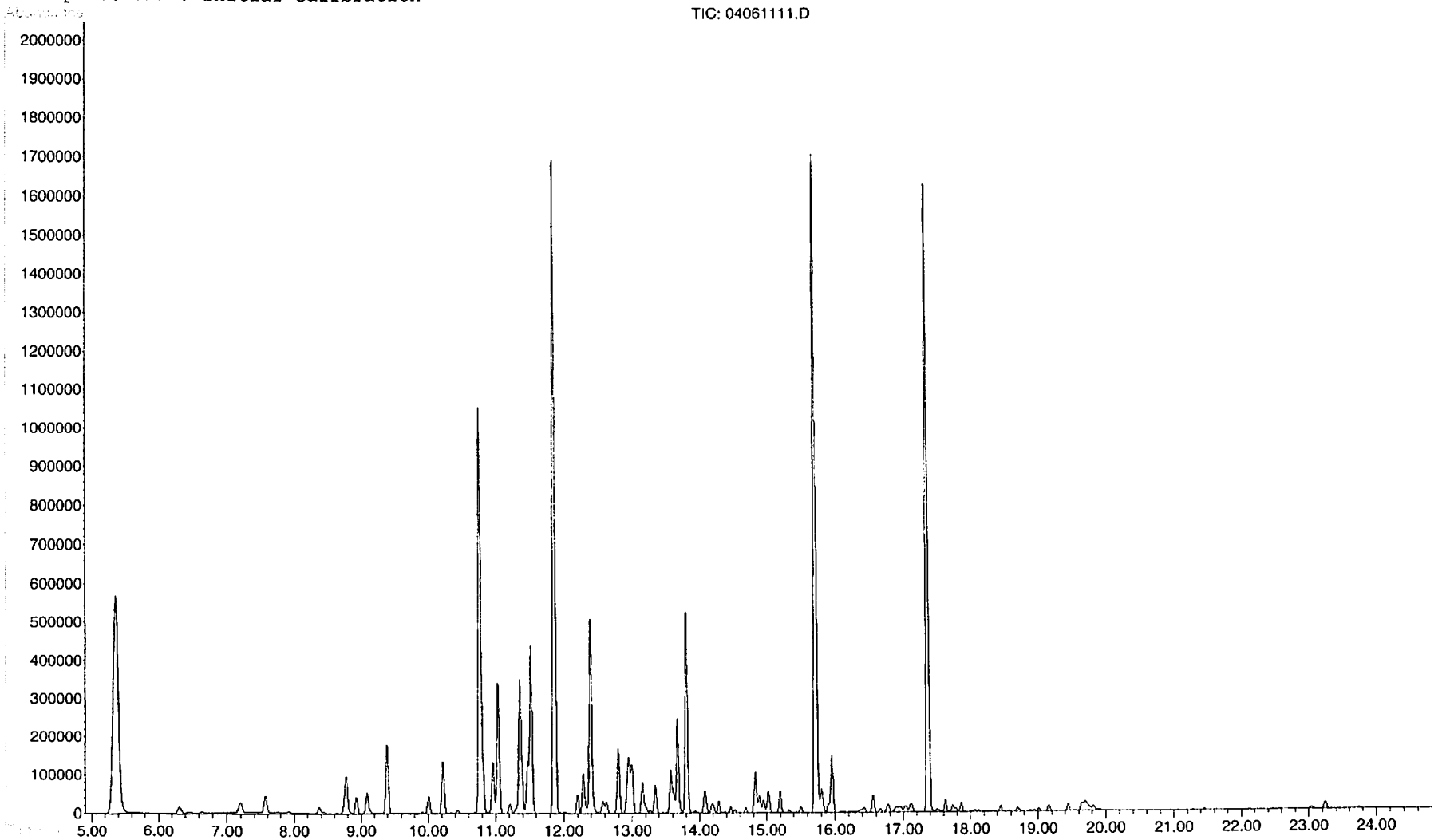
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	486908	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1742841	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1217097	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	757235	12.41	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.28%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	26062	0.53	ppbv		90
20) n-Hexane	9.39	57	115078	1.62	ppbv		95
29) Cyclohexane	11.03	56	155805	2.16	ppbv	#	76
31) Benzene	11.47	78	101777	0.85	ppbv		93
34) Heptane	11.52	43	203954	2.42	ppbv	#	93
41) Toluene	13.81	91	498976	3.80	ppbv		98
51) m,p-Xylene	15.96	91	116066	1.06	ppbv		93

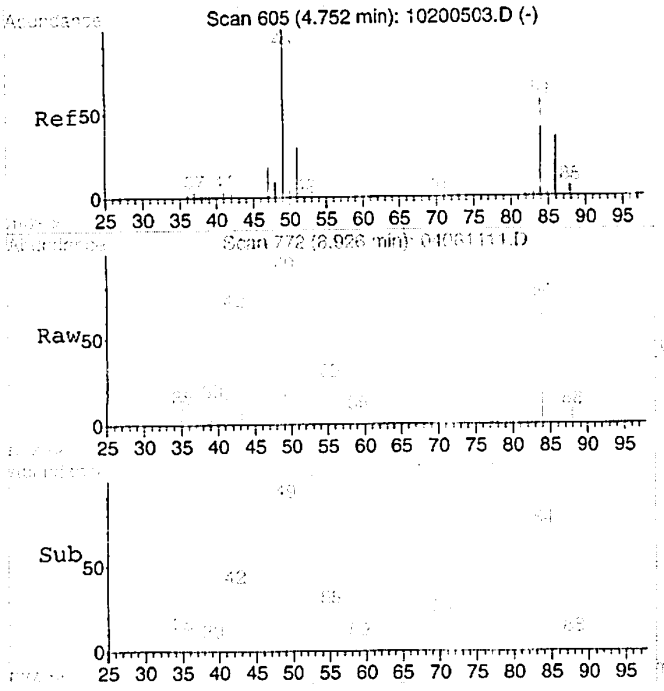
(#) = qualifier out of range (m) = manual integration
04061111.D 031611V1.M Thu Apr 14 13:14:21 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061111.D Vial: 1
Acq On : 6 Apr 2011 6:33 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103389-019BDUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:51 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

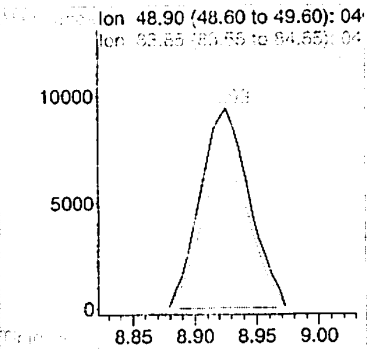


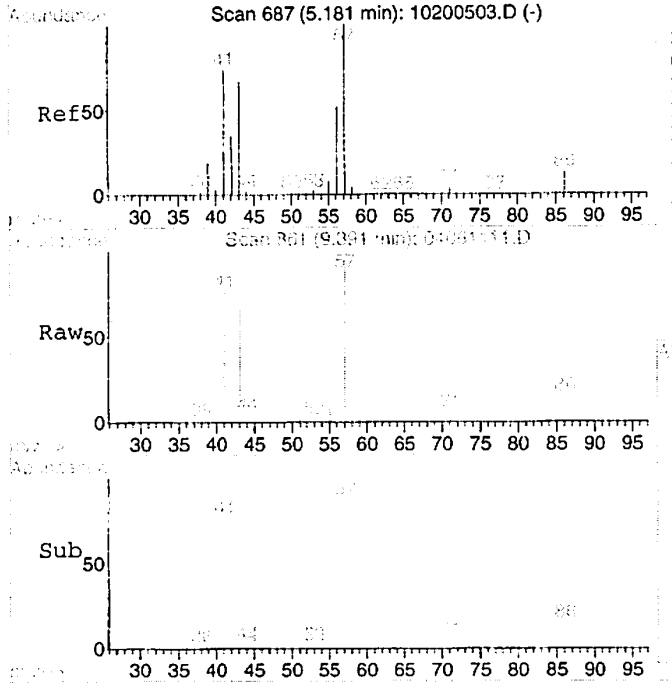


#17
Methylene chloride
Concen: 0.53 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 49 Resp: 26062

Ion	Ratio	Lower	Upper
49	100		
84	73.7	65.4	98.2
86	45.3	42.3	63.5

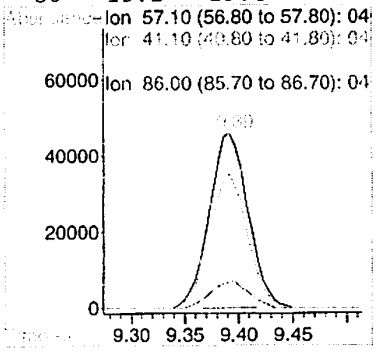


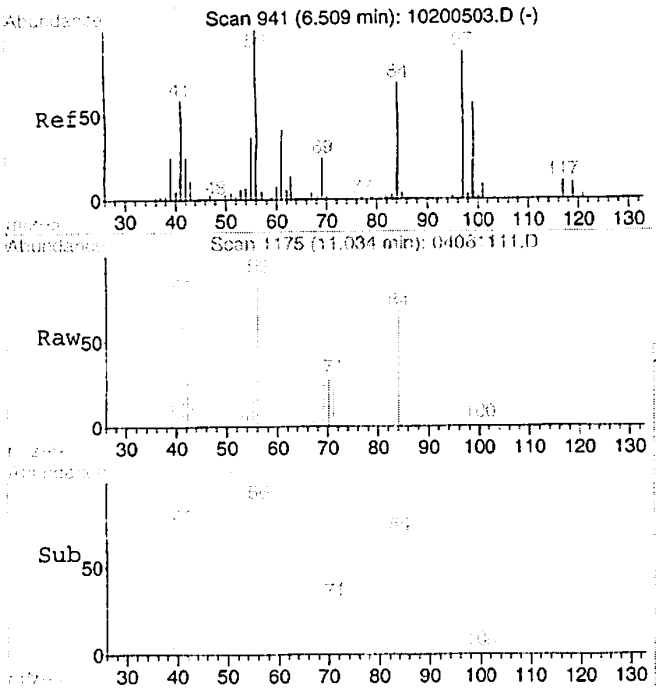


#20
n-Hexane
Concen: 1.62 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 57 Resp: 115078

Ion	Ratio	Lower	Upper
57	100		
41	75.6	57.2	85.8
53	2.1	1.8	2.8
86	15.1	13.4	20.0

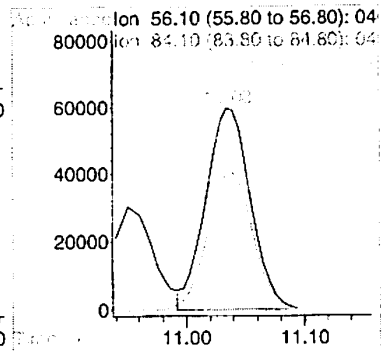


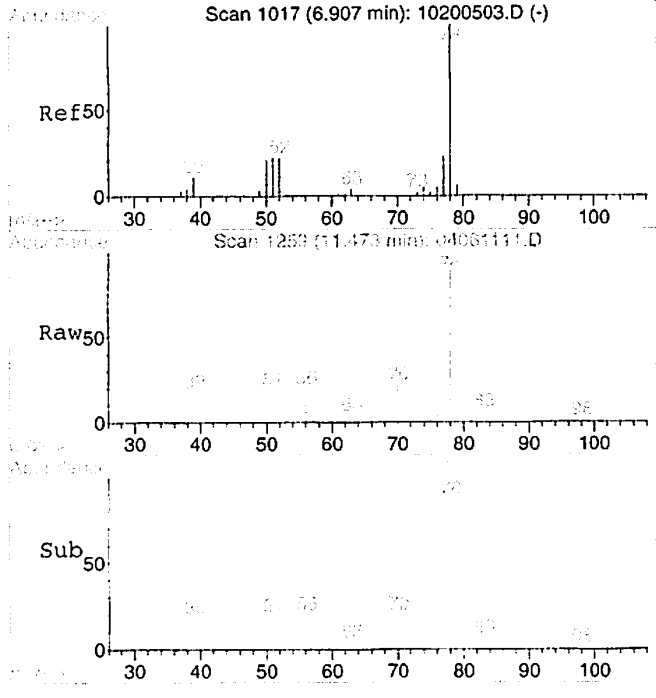


#29
Cyclohexane
Concen: 2.16 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 56 Resp: 155805

Ion	Ratio	Lower	Upper
56	100		
84	68.7	72.4	108.6#
41	74.1	43.8	65.8#

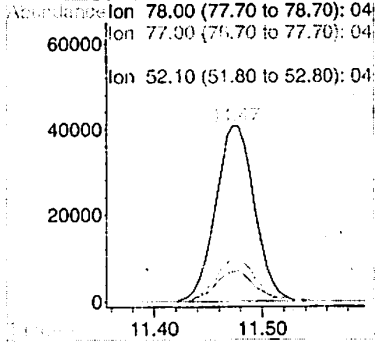


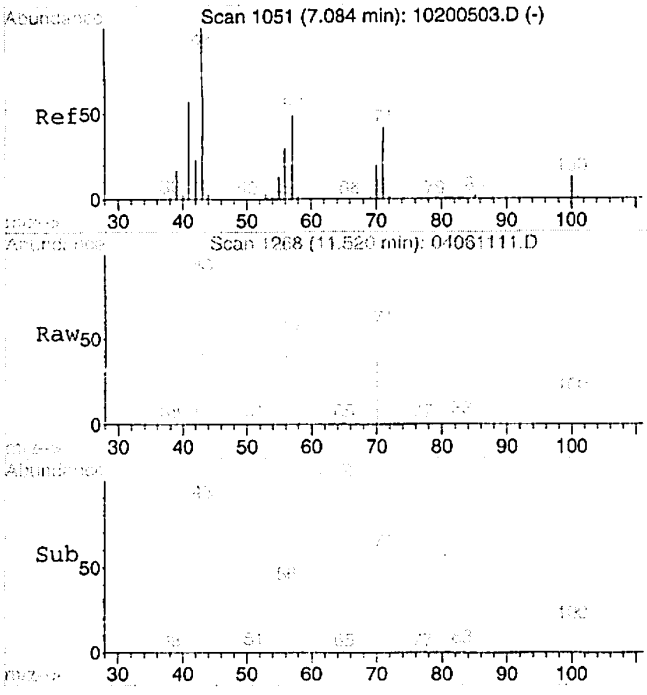


#31
Benzene
Concen: 0.85 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 78 Resp: 101777

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	22.3	0.0	36.1
52	18.0	0.0	36.0

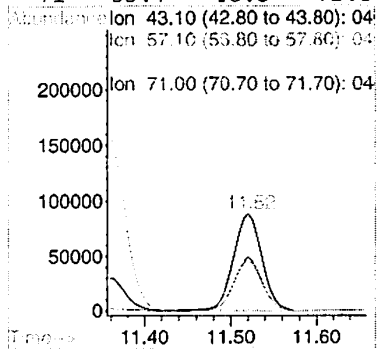


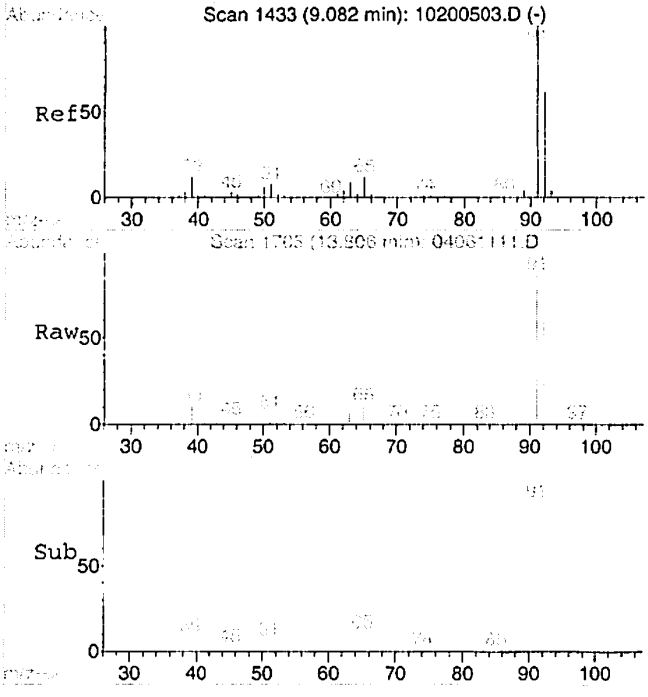


#34
Heptane
Concen: 2.42 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 43 Resp: 203954

Ion	Ratio	Lower	Upper
43	100		
57	53.8	42.2	63.4
100	15.0	17.3	25.9#
71	53.7	48.3	72.5

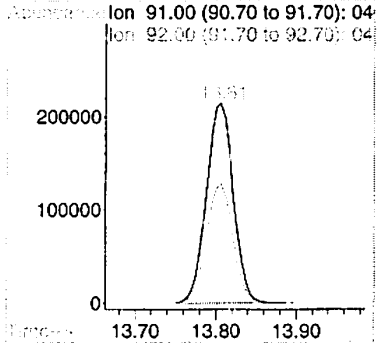


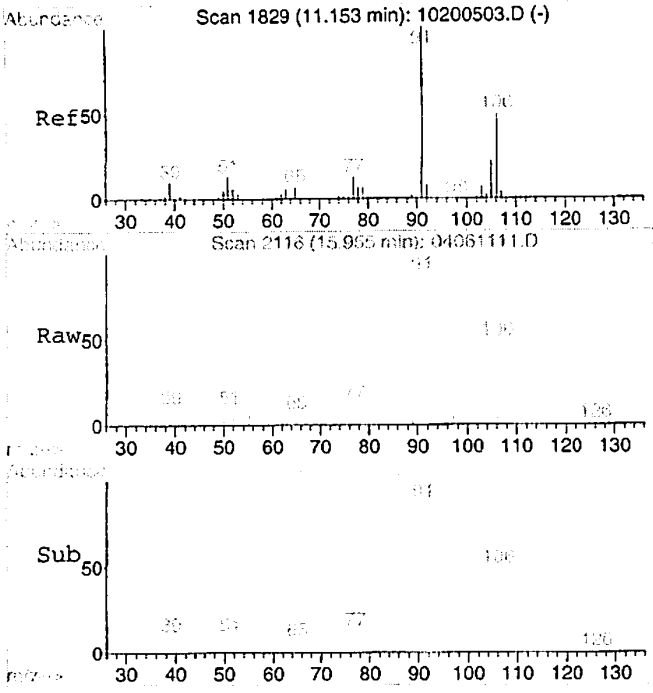


#41
Toluene
Concen: 3.80 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 91 Resp: 498976

Ion	Ratio	Lower	Upper
91	100		
92	58.9	40.5	80.5
65	11.1	0.0	31.2

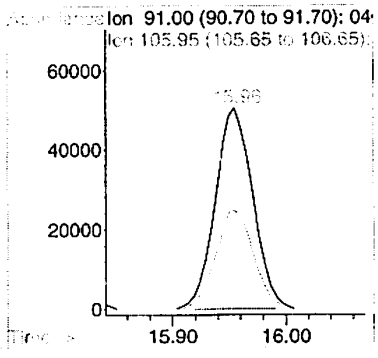




#51
m,p-Xylene
Concen: 1.06 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061111.D
Acq: 6 Apr 2011 6:33 pm

Tgt Ion: 91 Resp: 116066

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:55 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

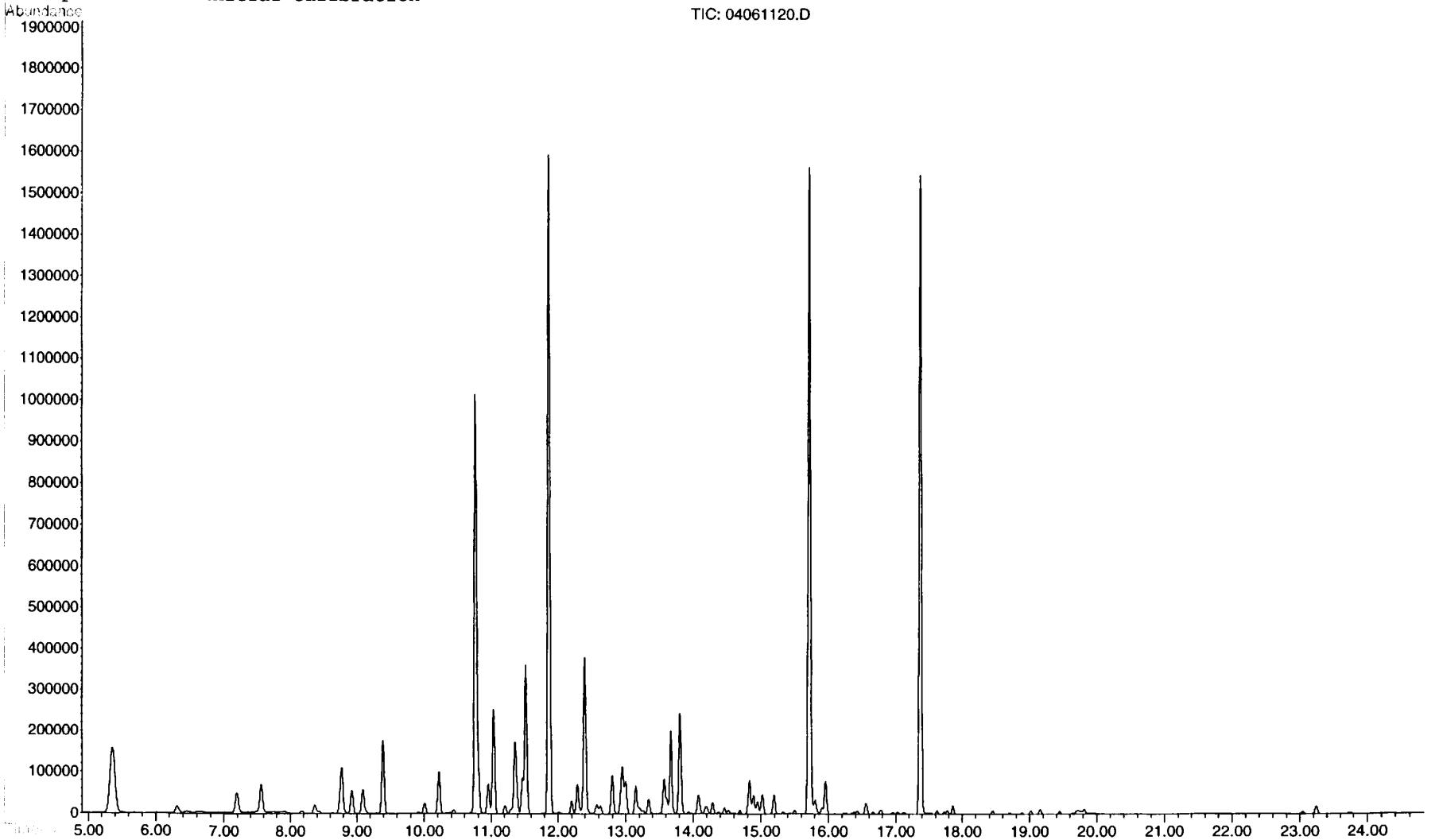
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	459824	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1636131	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1146646	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	712946	12.41	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.28%				
Target Compounds							Qvalue
14) Acetone	8.37	43	45627	0.81	ppbv	#	96
17) Methylene chloride	8.92	49	38293	0.83	ppbv		93
20) n-Hexane	9.39	57	113335	1.69	ppbv		95
29) Cyclohexane	11.03	56	112565	1.66	ppbv	#	74
31) Benzene	11.47	78	64531	0.57	ppbv		94
34) Heptane	11.52	43	168179	2.13	ppbv	#	94
41) Toluene	13.80	91	228011	1.85	ppbv		97
51) m,p-Xylene	15.95	91	63355	0.61	ppbv		93

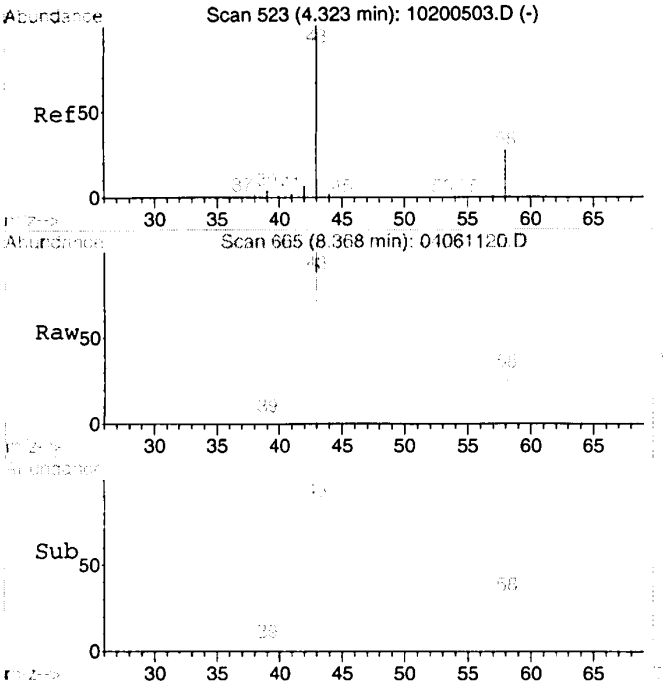
(#) = qualifier out of range (m) = manual integration
04061120.D 031611V1.M Thu Apr 14 13:23:15 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:55 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

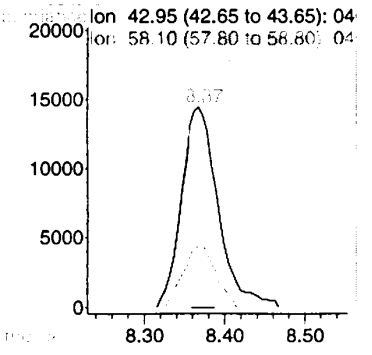


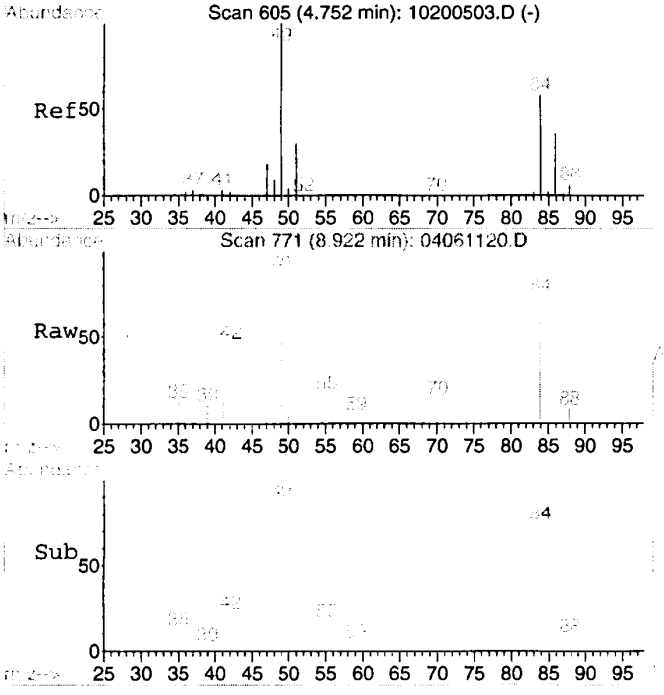


#14
Acetone
Concen: 0.81 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 43 Resp: 45627

Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.0	33.0
39	2.2	6.5	9.7#

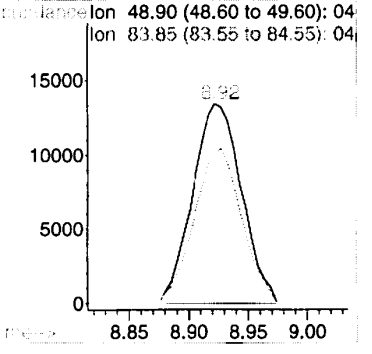


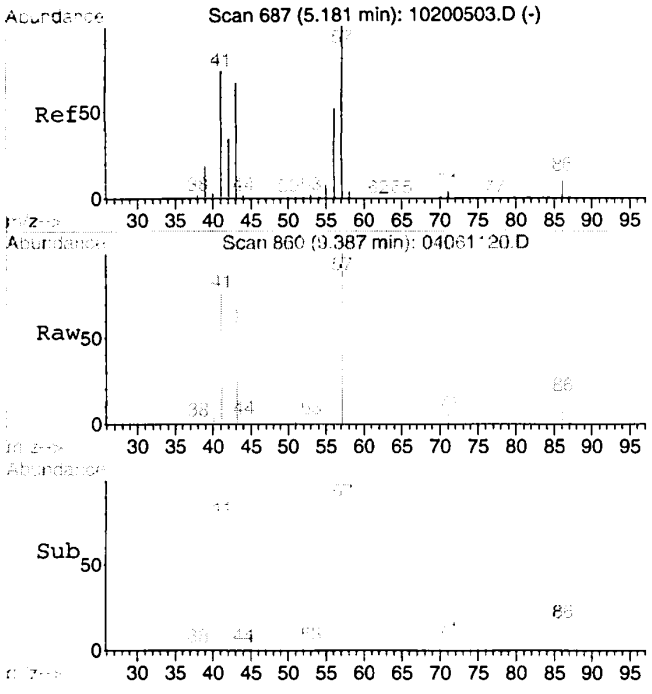


#17
Methylene chloride
Concen: 0.83 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 49 Resp: 38293

Ion	Ratio	Lower	Upper
49	100		
84	75.2	65.4	98.2
86	47.7	42.3	63.5

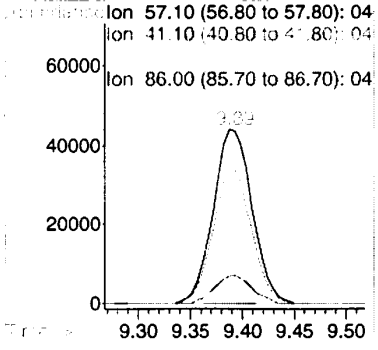


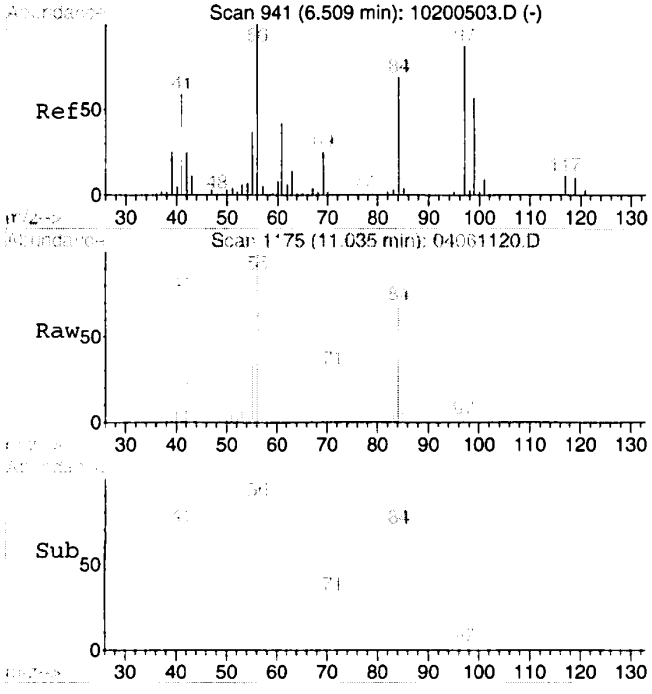


#20
n-Hexane
Concen: 1.69 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 57 Resp: 113335

Ion	Ratio	Lower	Upper
57	100		
41	75.6	57.2	85.8
53	2.3	1.8	2.8
86	15.3	13.4	20.0

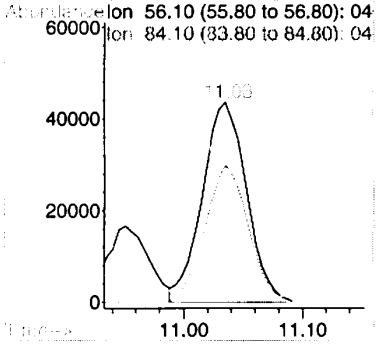


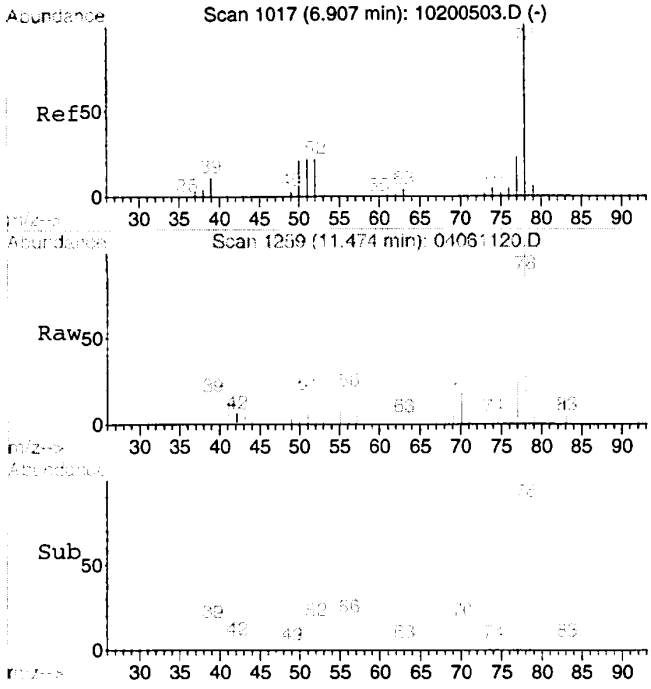


#29
Cyclohexane
Concen: 1.66 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 56 Resp: 112565

Ion	Ratio	Lower	Upper
56	100		
84	67.3	72.4	108.6#
41	76.2	43.8	65.8#

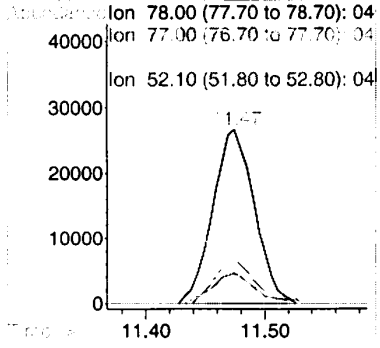


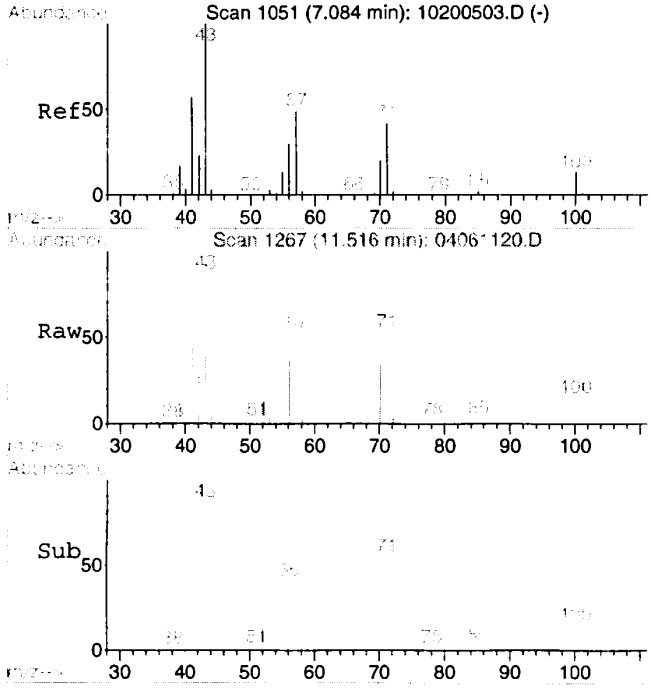


#31
Benzene
Concen: 0.57 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 78 Resp: 64531

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	22.9	0.0	36.1
52	17.5	0.0	36.0

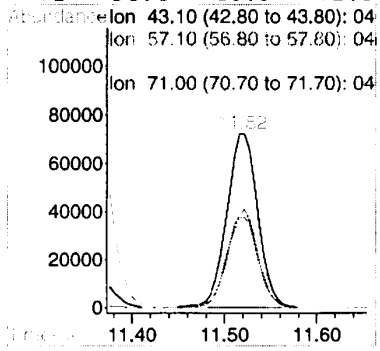


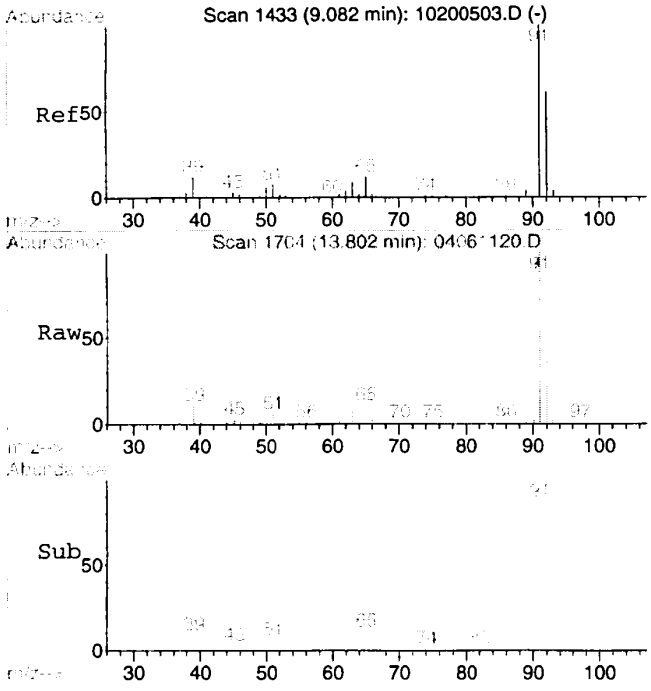


#34
Heptane
Concen: 2.13 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 43 Resp: 168179

Ion	Ratio	Lower	Upper
43	100		
57	53.7	42.2	63.4
100	15.4	17.3	25.9#
71	54.4	48.3	72.5

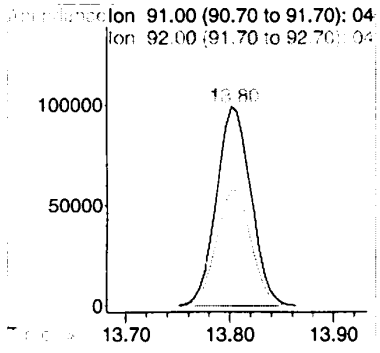


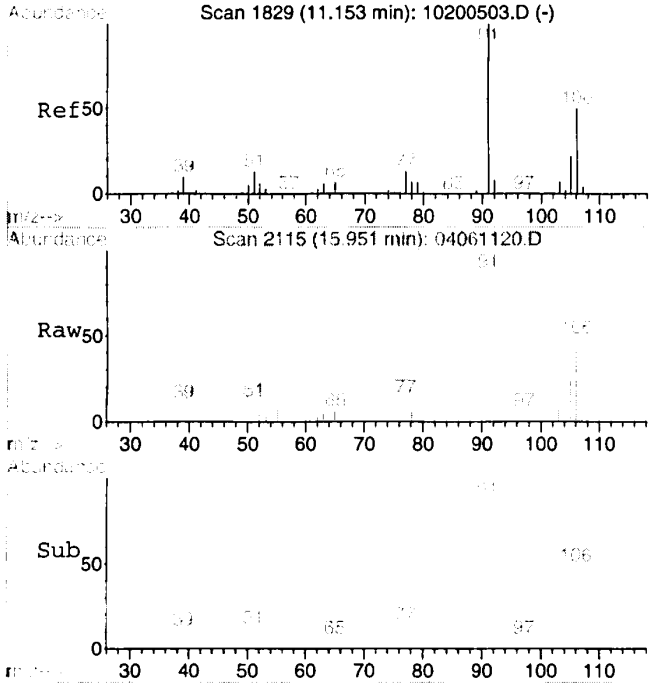


#41
Toluene
Concen: 1.85 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 91 Resp: 228011

Ion	Ratio	Lower	Upper
91	100		
92	58.2	40.5	80.5
65	11.1	0.0	31.2

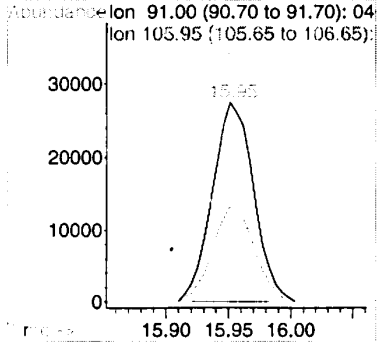




#51
m,p-Xylene
Concen: 0.61 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04061120.D
Acq: 7 Apr 2011 12:56 am

Tgt Ion: 91 Resp: 63355

Ion	Ratio	Lower	Upper
91	100		
106	49.4	35.6	75.6
51	10.0	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061120.D
Acq On : 7 Apr 2011 12:56 am
Sample : 1103609-017A
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 11
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 4000.00

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Filtering: 5
Sampling : 1
Min Area: 1 % of largest Peak
Start Thrs: 0.2
Max Peaks: 100
Stop Thrs : 0
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.355	65	89	117	rBV	156515	855604	23.46%	3.645%
2	6.312	259	272	286	rBV5	17199	66614	1.83%	0.284%
3	7.191	429	440	455	rBV2	48643	161392	4.43%	0.687%
4	7.562	499	511	524	rVB2	67883	209457	5.74%	0.892%
5	8.362	654	664	674	rBV2	20733	63088	1.73%	0.269%
6	8.770	727	742	762	rVB2	112104	360342	9.88%	1.535%
7	8.922	762	771	783	rVB2	57222	158290	4.34%	0.674%
8	9.089	793	803	820	rBV3	59474	172698	4.74%	0.736%
9	9.393	850	861	872	rVB	177806	449201	12.32%	1.913%
10	10.005	968	978	987	rBV2	25701	65087	1.78%	0.277%
11	10.214	1008	1018	1032	rBB2	103115	267078	7.32%	1.138%
12	10.763	1111	1123	1142	rBV	1016385	2669552	73.21%	11.371%
13	10.951	1148	1159	1166	rBV2	72904	184346	5.06%	0.785%
14	11.035	1166	1175	1187	rVB2	254849	649375	17.81%	2.766%
15	11.208	1200	1208	1216	rBB5	20555	51972	1.43%	0.221%
16	11.354	1227	1236	1250	rVV	173832	535466	14.68%	2.281%
17	11.474	1250	1259	1261	rVV4	88160	193327	5.30%	0.824%
18	11.521	1261	1268	1280	rVB2	361469	881994	24.19%	3.757%
19	11.861	1322	1333	1346	rBV	1596807	3646505	100.00%	15.533%
20	12.196	1390	1397	1405	rBV2	31554	71445	1.96%	0.304%
21	12.285	1405	1414	1423	rVV	71541	183548	5.03%	0.782%
22	12.390	1424	1434	1451	rVB	379373	944110	25.89%	4.022%
23	12.567	1460	1468	1474	rBV6	24250	63372	1.74%	0.270%
24	12.620	1474	1478	1486	rVB3	20607	44814	1.23%	0.191%
25	12.797	1502	1512	1525	rBB2	93526	241193	6.61%	1.027%
26	12.944	1526	1540	1546	rBV3	115113	353987	9.71%	1.508%
27	13.148	1570	1579	1587	rBV2	68504	176733	4.85%	0.753%
28	13.341	1607	1616	1629	rVB3	36228	92607	2.54%	0.394%
29	13.572	1651	1660	1672	rBV2	84857	273057	7.49%	1.163%
30	13.671	1672	1679	1692	rVV	202440	445452	12.22%	1.897%
31	13.802	1694	1704	1719	rVB	245277	604019	16.56%	2.573%
32	14.079	1747	1757	1769	rBB6	46026	126641	3.47%	0.539%
33	14.189	1769	1778	1789	rBV6	18714	56829	1.56%	0.242%
34	14.283	1789	1796	1805	rVV2	27860	60456	1.66%	0.258%
35	14.827	1889	1900	1906	rBV2	82400	209397	5.74%	0.892%
36	14.884	1906	1911	1918	rVV2	46045	114206	3.13%	0.486%
37	14.947	1918	1923	1929	rVV3	30478	70671	1.94%	0.301%
38	15.020	1929	1937	1946	rVB3	47467	120934	3.32%	0.515%
39	15.193	1960	1970	1979	rBB3	46591	106921	2.93%	0.455%
40	15.716	2059	2070	2082	rBV	1568536	3580938	98.20%	15.254%
41	15.805	2082	2087	2099	rVV	34948	87942	2.41%	0.375%
42	15.951	2109	2115	2126	rVB2	79571	191106	5.24%	0.814%
43	16.547	2222	2229	2240	rBB2	27163	65050	1.78%	0.277%

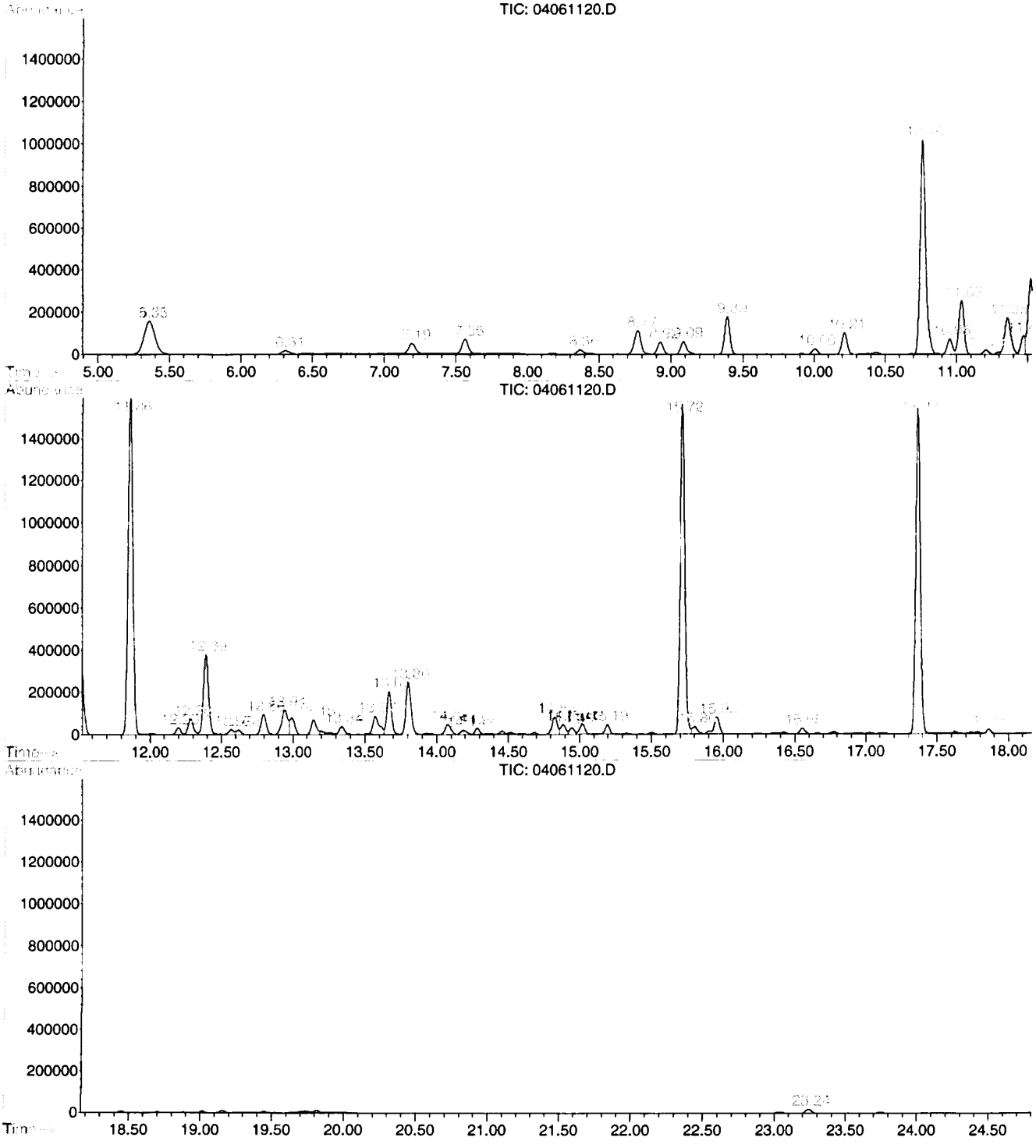
44	17.369	2375	2386	2404	rBV	1549133	3460024	94.89%	14.739%
45	17.860	2473	2480	2488	rBB2	20890	40022	1.10%	0.170%
46	23.242	3500	3509	3518	rBB4	18702	49068	1.35%	0.209%

Sum of corrected areas: 23475930

04061120.D 031611V1.M Thu Apr 14 13:23:19 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061120.D
Operator : Michael Truchan/Rachel Hill
Acquired : 7 Apr 2011 12:56 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-017A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 11
Quant File :031611V1.RES (RTE Integrator)



04061120.D 031611V1.M Thu Apr 14 13:23:20 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	4.01 ppbv	855604	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	0.76 ppbv	161392	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	10
4	Methane, isocyanato- $$ Isocyanic a	57	C2H3NO	000624-83-9	9
5	Aziridine, 1-methyl-	57	C3H7N	001072-44-2	7

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	0.98 ppbv	209457	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	56
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	9
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	9

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- $$ Isohexan Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	1.69 ppbv	360342	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	40
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	38

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	0.81 ppbv	172698	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	43
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	43

****

Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	1.25 ppbv	267078	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	87
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	0.86 ppbv	184346	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	83
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83

****

Peak Number 8 Butane, 2,2,3,3-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	1.84 ppbv	535466	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	78
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	78
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	72

****

Peak Number 9 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	0.63 ppbv	183548	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	28
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	28
4	2,4,6,8-Tetramethyl-1-undecene	210	C15H30	059920-26-2	25
5	Cyclobutane, 1,2-diethyl-	112	C8H16	061141-83-1	25

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclohexane, methyl- $$ Cycloh Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	3.24 ppbv	944110	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 11 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	0.83 ppbv	241193	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
2	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	50
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	47
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	45
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	40

****

Peak Number 12 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	1.21 ppbv	353987	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	91
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	80
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	72
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	0.61 ppbv	176733	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	72
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
4	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	50
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	47

****

Peak Number 14 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.94 ppbv	273057	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 15 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.53 ppbv	445452	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	0.44 ppbv	126641	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
3	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	87
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	80
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	80

****

Peak Number 17 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.73 ppbv	209397	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

****

Peak Number 18 Cyclopentane, propyl- $$ n-Pro Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.88	0.40 ppbv	114206	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, propyl- $$ n-Propylcy	112	C8H16	002040-96-2	9
2	Cyclopentane, propyl-	112	C8H16	002040-96-2	9
3	Cyclohexane, 1,1,3-trimethyl- $$ Cy	126	C9H18	003073-66-3	9
4	1-Hexene, 3,3-dimethyl- $$ 3,3-Dime	112	C8H16	003404-77-1	7
5	Heptane, 4-methylene- $$ 1-Pentene,	112	C8H16	015918-08-8	7

Data File : C:\HPCHEM\1\DATA\040611\04061120.D Vial: 11
Acq On : 7 Apr 2011 12:56 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	0.42 ppbv	120934	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	42
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	42
3	Octane, 4-methyl-	128	C9H20	002216-34-4	40
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	39
5	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	36

****

Peak Number 20 Undecane, 5,6-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	0.37 ppbv	106921	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,6-dimethyl-	184	C13H28	017615-91-7	42
2	Hexane, 1-(hexyloxy)-4-methyl-	200	C13H28O	074421-20-8	40
3	Octane, 3-methyl-	128	C9H20	002216-33-3	40
4	Undecane, 6-methyl- $$ 6-Methylunde	170	C12H26	017302-33-9	38
5	3-Undecene, 6-methyl-, (E)-	168	C12H24	074630-52-7	36

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 7 Apr 2011 12:56 am
Data File: C:\HPCHEM\1\DATA\040611\04061120.D
Name: 1103609-017A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	4.0	ppbv	855604	ISTD01	10.76	2669550	12.5
Butane, 2-methyl-	7.19	0.8	ppbv	161392	ISTD01	10.76	2669550	12.5
Pentane $$ n-Pentane	7.56	1.0	ppbv	209457	ISTD01	10.76	2669550	12.5
Pentane, 2-methyl- $	8.77	1.7	ppbv	360342	ISTD01	10.76	2669550	12.5
Pentane, 3-methyl-	9.09	0.8	ppbv	172698	ISTD01	10.76	2669550	12.5
Cyclopentane, methyl	10.21	1.3	ppbv	267078	ISTD01	10.76	2669550	12.5
Pentane, 2,3-dimethy	10.95	0.9	ppbv	184346	ISTD01	10.76	2669550	12.5
Butane, 2,2,3,3-tetr	11.35	1.8	ppbv	535466	ISTD02	11.86	3646510	12.5
Hexane, 2,4-dimethyl	12.28	0.6	ppbv	183548	ISTD02	11.86	3646510	12.5
Cyclohexane, methyl-	12.39	3.2	ppbv	944110	ISTD02	11.86	3646510	12.5
Pentane, 2,3,4-trime	12.80	0.8	ppbv	241193	ISTD02	11.86	3646510	12.5
Heptane, 2-methyl-	12.94	1.2	ppbv	353987	ISTD02	11.86	3646510	12.5
Heptane, 3-methyl-	13.15	0.6	ppbv	176733	ISTD02	11.86	3646510	12.5
Cyclohexane, 1,3-dim	13.57	0.9	ppbv	273057	ISTD02	11.86	3646510	12.5
Octane	13.67	1.5	ppbv	445452	ISTD02	11.86	3646510	12.5
Cyclohexane, 1,2-dim	14.08	0.4	ppbv	126641	ISTD03	15.72	3580940	12.5
Cyclohexane, ethyl-	14.83	0.7	ppbv	209397	ISTD03	15.72	3580940	12.5
Cyclopentane, propyl	14.88	0.4	ppbv	114206	ISTD03	15.72	3580940	12.5
Octane, 4-methyl-	15.02	0.4	ppbv	120934	ISTD03	15.72	3580940	12.5
Undecane, 5,6-dimeth	15.19	0.4	ppbv	106921	ISTD03	15.72	3580940	12.5

04061120.D 031611V1.M Thu Apr 14 13:23:21 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061121.D Vial: 12
Acq On : 7 Apr 2011 1:39 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	453323	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1634998	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1162655	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	725685	12.45	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.60%				
Target Compounds							Qvalue
11) Ethanol	7.76	45	3782	0.50	ppbv	#	49
17) Methylene chloride	8.92	49	62682	1.37	ppbv		92
20) n-Hexane *	9.39	57	516644	7.80	ppbv		95
29) Cyclohexane *	11.03	56	491296	7.33	ppbv	#	82
31) Benzene *	11.47	78	626203	5.59	ppbv		98
34) Heptane *	11.52	43	186296	2.36	ppbv	#	92
41) Toluene *	13.81	91	259329	2.10	ppbv		98

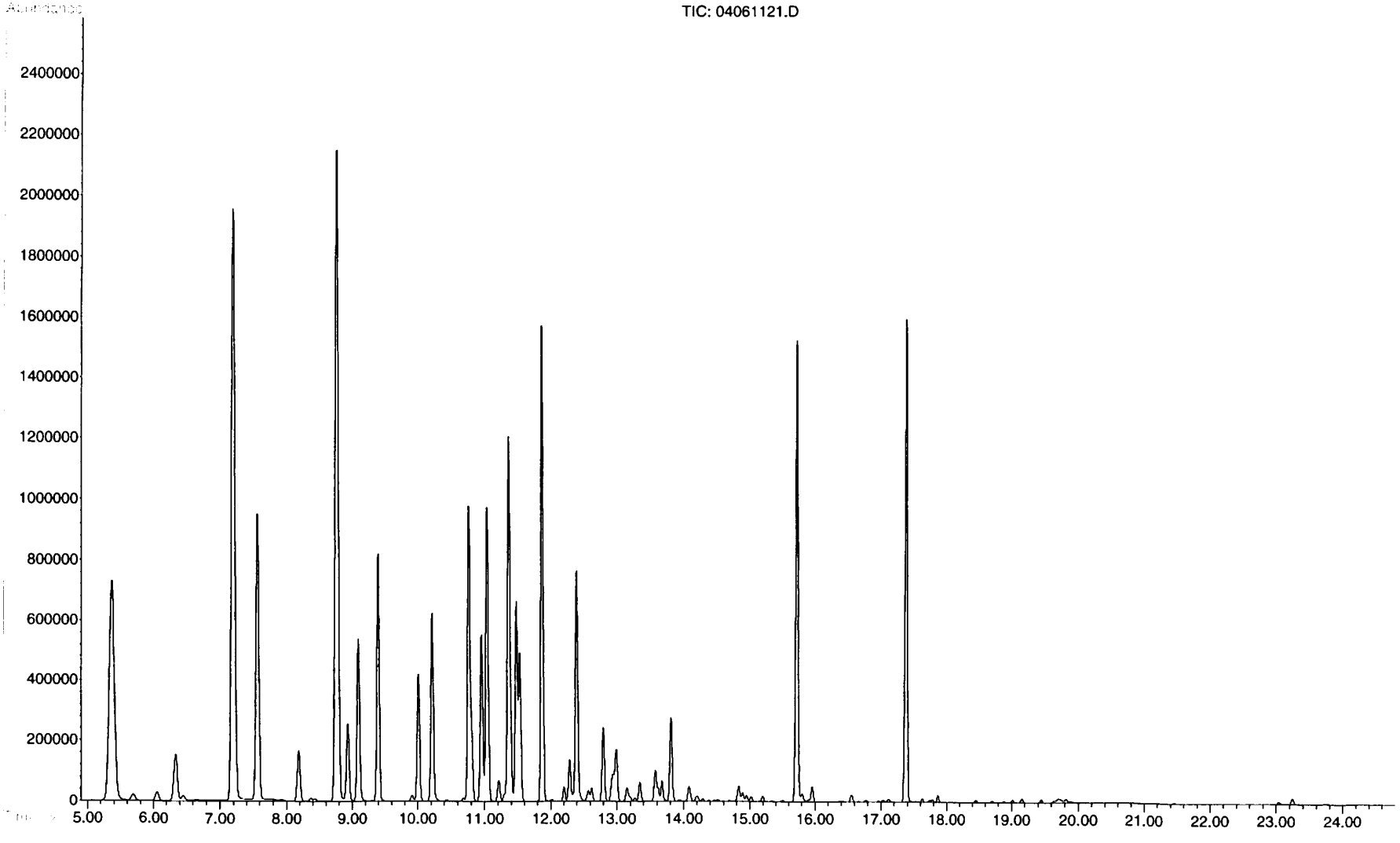
*=reported only CL 4/15/11

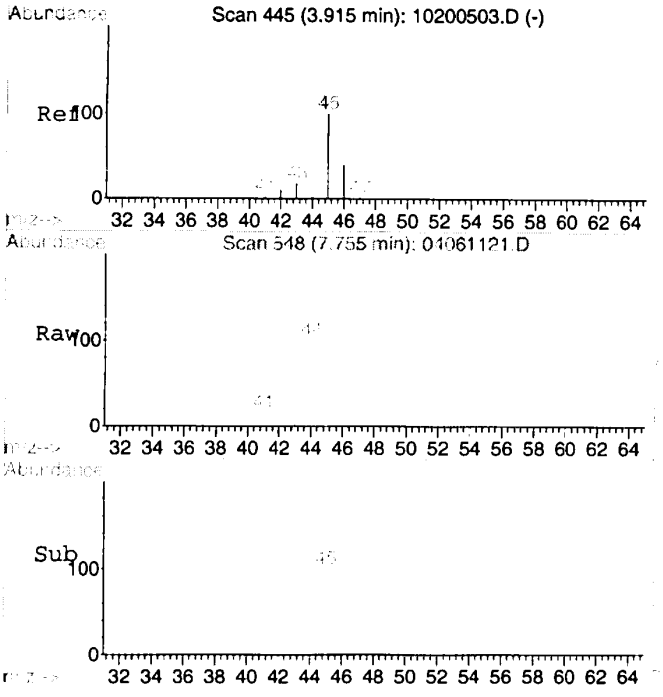
(#) = qualifier out of range (m) = manual integration
04061121.D 031611V1.M Thu Apr 14 13:23:31 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061121.D Vial: 12
Acq On : 7 Apr 2011 1:39 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:56 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

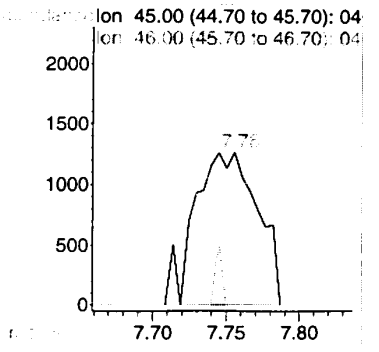


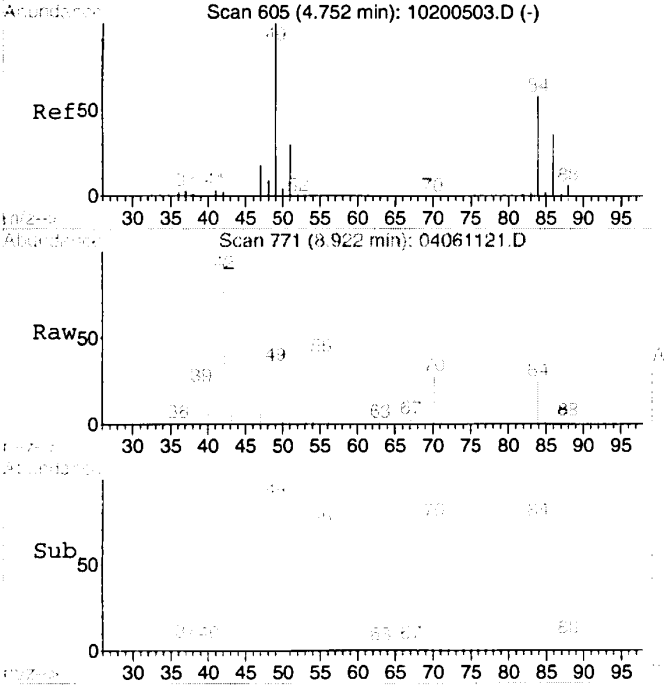


#11
Ethanol
Concen: 0.50 ppbv
RT: 7.76 min Scan# 548
Delta R.T. 0.02 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 45 Resp: 3782

Ion	Ratio	Lower	Upper
45	100		
46	4.3	30.2	45.4#
43	0.0	15.8	23.6#

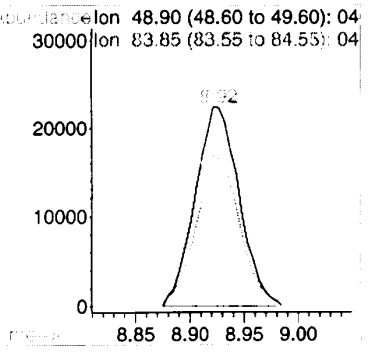


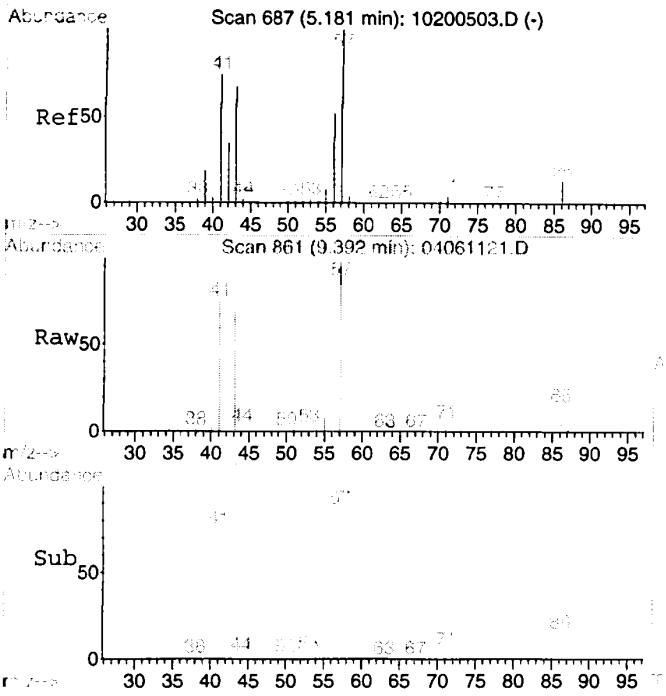


#17
Methylene chloride
Concen: 1.37 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 49 Resp: 62682

Ion	Ratio	Lower	Upper
49	100		
84	75.1	65.4	98.2
86	47.4	42.3	63.5

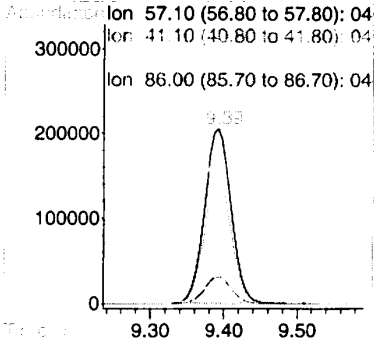


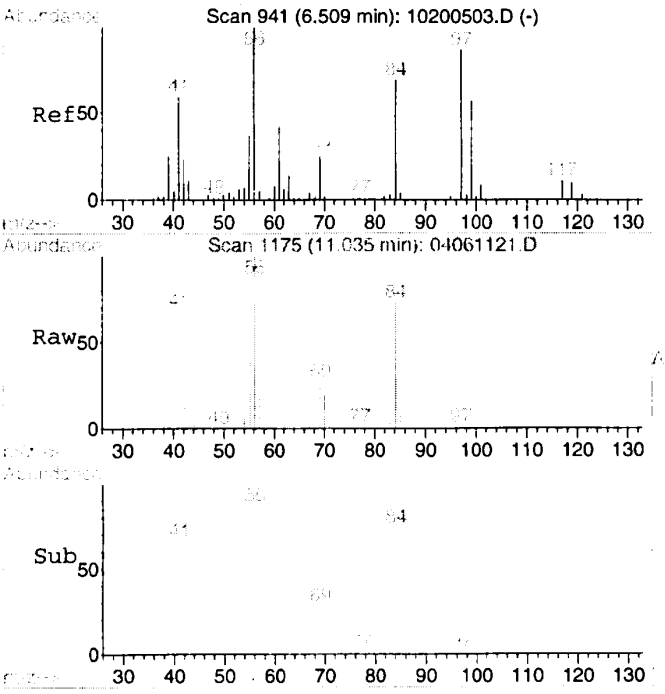


#20
n-Hexane
Concen: 7.80 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 57 Resp: 516644

Ion	Ratio	Lower	Upper
57	100		
41	75.7	57.2	85.8
53	2.5	1.8	2.8
86	15.3	13.4	20.0

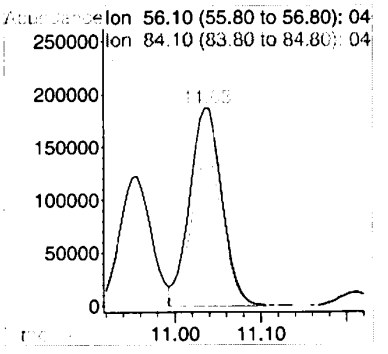


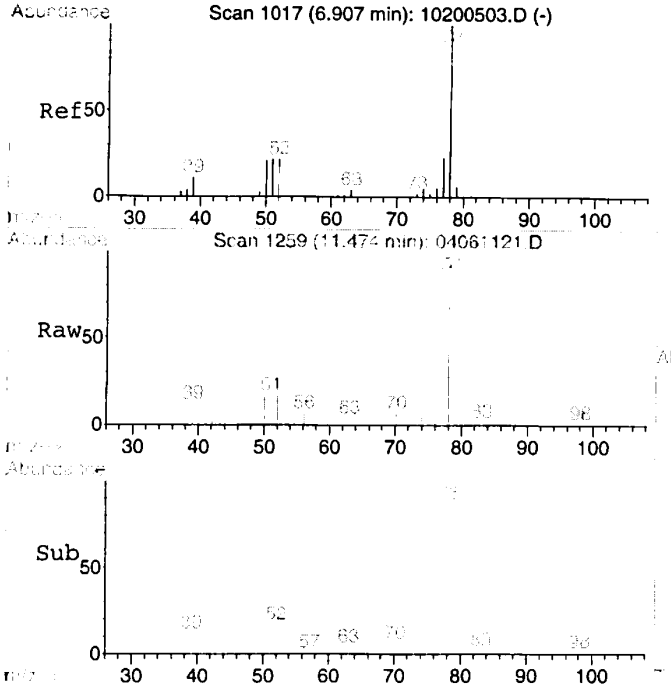


#29
Cyclohexane
Concen: 7.33 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 56 Resp: 491296

Ion	Ratio	Lower	Upper
56	100		
84	74.3	72.4	108.6
41	67.9	43.8	65.8#

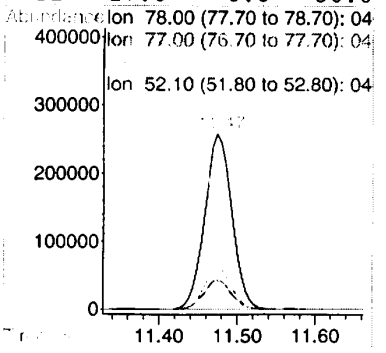


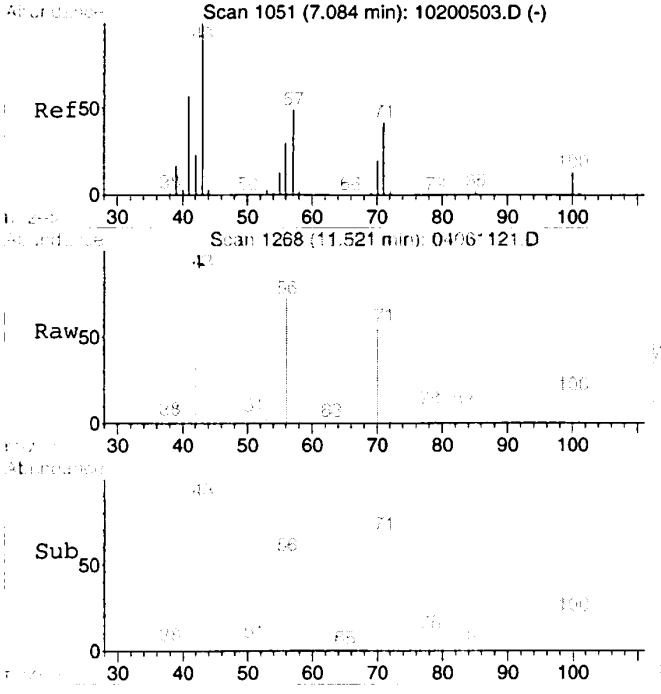


#31
Benzene
Concen: 5.59 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 78 Resp: 626203

Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.7	43.7
51	18.2	0.0	36.1
52	17.0	0.0	36.0

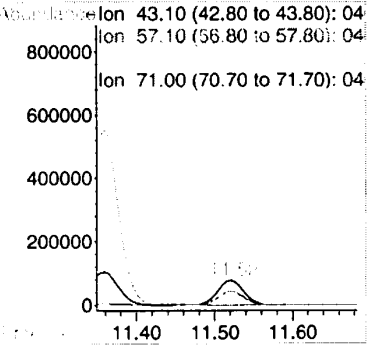


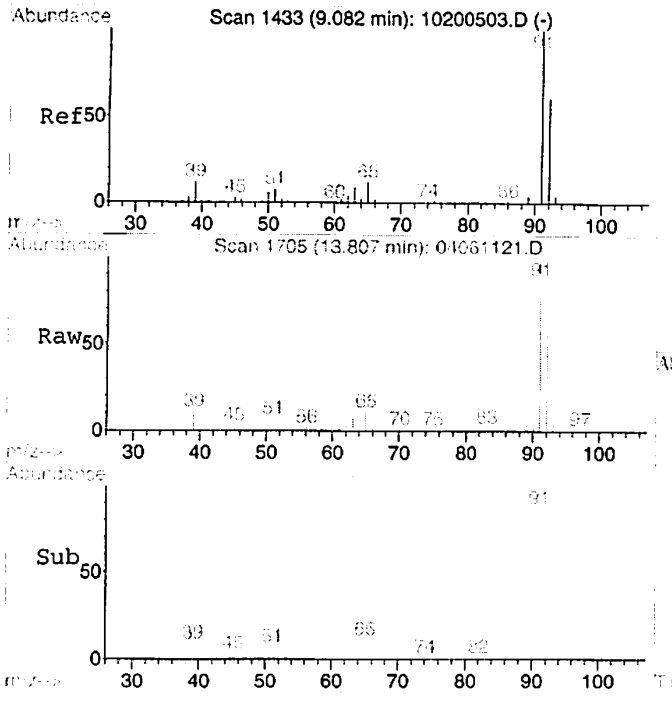


#34
Heptane
Concen: 2.36 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 43 Resp: 186296

Ion	Ratio	Lower	Upper
43	100		
57	56.0	42.2	63.4
100	14.9	17.3	25.9#
71	54.4	48.3	72.5

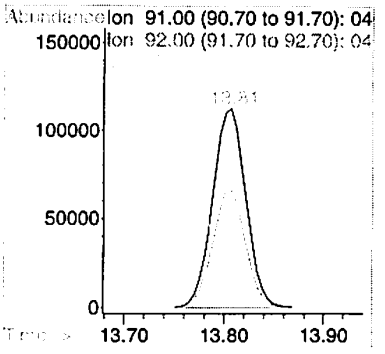




#41
Toluene
Concen: 2.10 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061121.D
Acq: 7 Apr 2011 1:39 am

Tgt Ion: 91 Resp: 259329

Ion	Ratio	Lower	Upper
91	100		
92	58.5	40.5	80.5
65	11.0	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061122.D Vial: 13
Acq On : 7 Apr 2011 2:21 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:56 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	448310	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	1601609	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1133738	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	681032	11.99	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.92%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	26909	0.60	ppbv		92
20) n-Hexane *	9.39	57	466627	7.13	ppbv		96
29) Cyclohexane *	11.03	56	459699	6.94	ppbv	#	81
31) Benzene *	11.47	78	456821	4.12	ppbv		97
34) Heptane *	11.52	43	236986	3.06	ppbv	#	91
41) Toluene *	13.81	91	774348	6.42	ppbv		98
51) m,p-Xylene	15.96	91	55984	0.55	ppbv		95

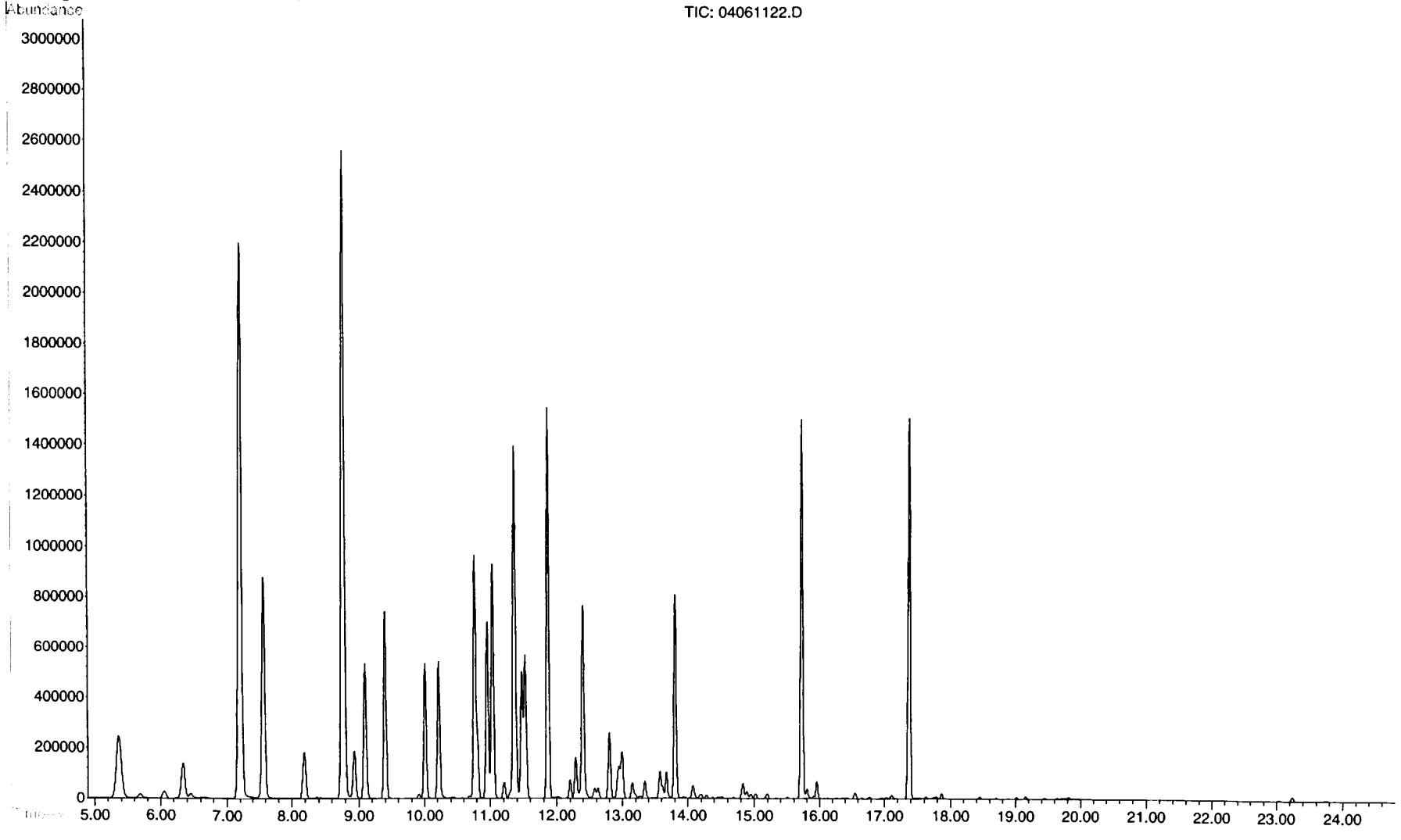
* = reported only ch 4/15/11

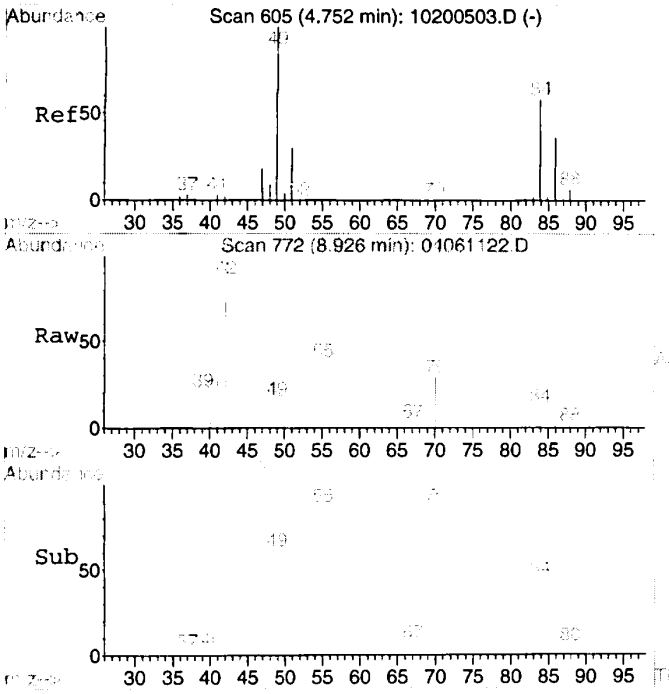
(#) = qualifier out of range (m) = manual integration
04061122.D 031611V1.M Thu Apr 14 13:23:44 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061122.D Vial: 13
Acq On : 7 Apr 2011 2:21 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:56 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

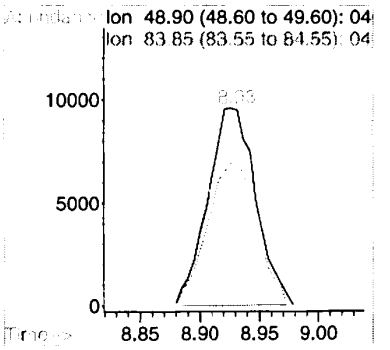


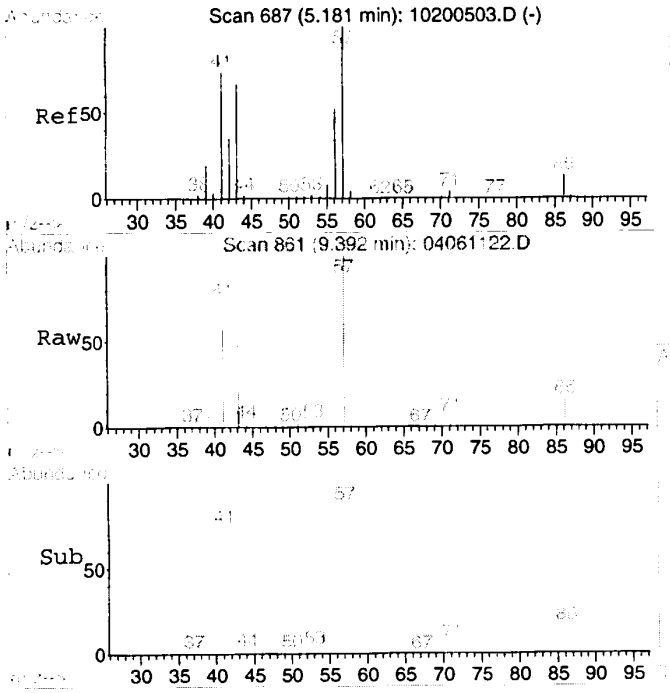


#17
Methylene chloride
Concen: 0.60 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 49 Resp: 26909

Ion	Ratio	Lower	Upper
49	100		
84	74.8	65.4	98.2
86	47.4	42.3	63.5

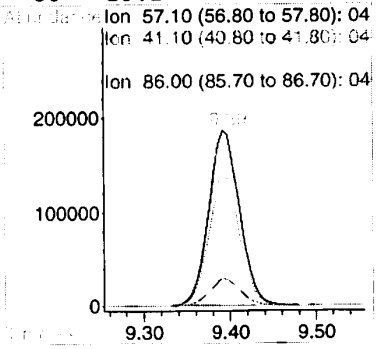


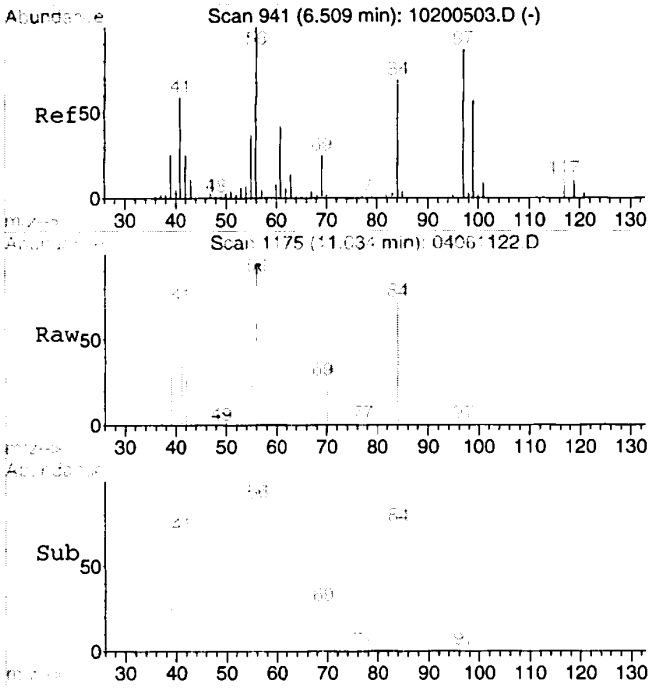


#20
n-Hexane
Concen: 7.13 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 57 Resp: 466627

Ion	Ratio	Lower	Upper
57	100		
41	75.0	57.2	85.8
53	2.5	1.8	2.8
86	15.2	13.4	20.0

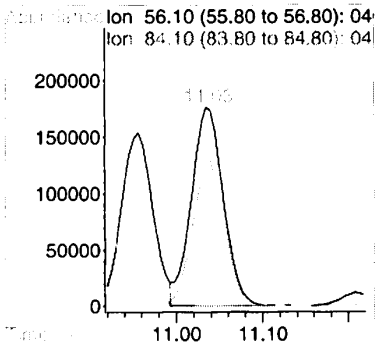


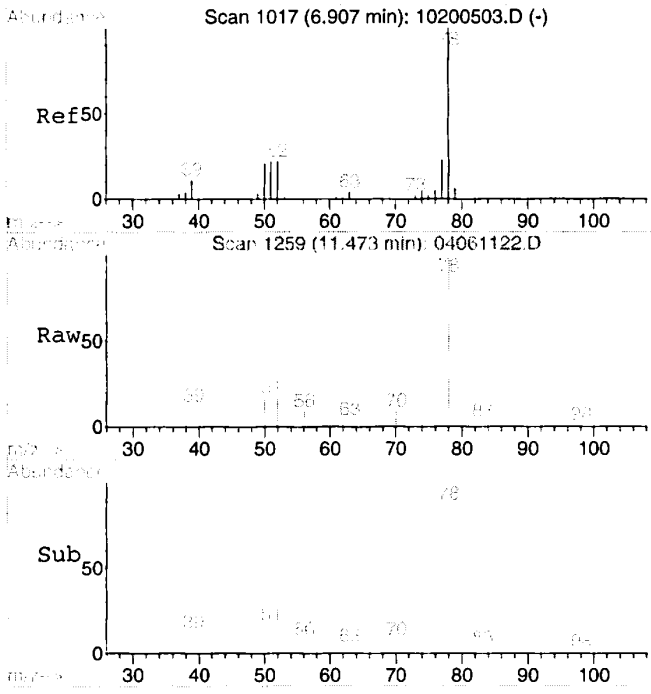


#29
Cyclohexane
Concen: 6.94 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 56 Resp: 459699

Ion	Ratio	Lower	Upper
56	100		
84	73.1	72.4	108.6
41	69.4	43.8	65.8#

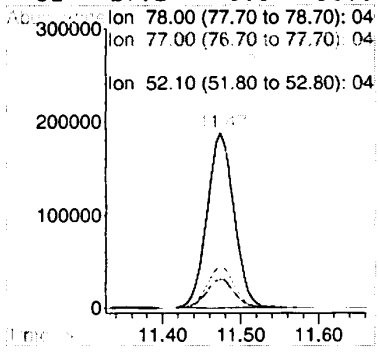


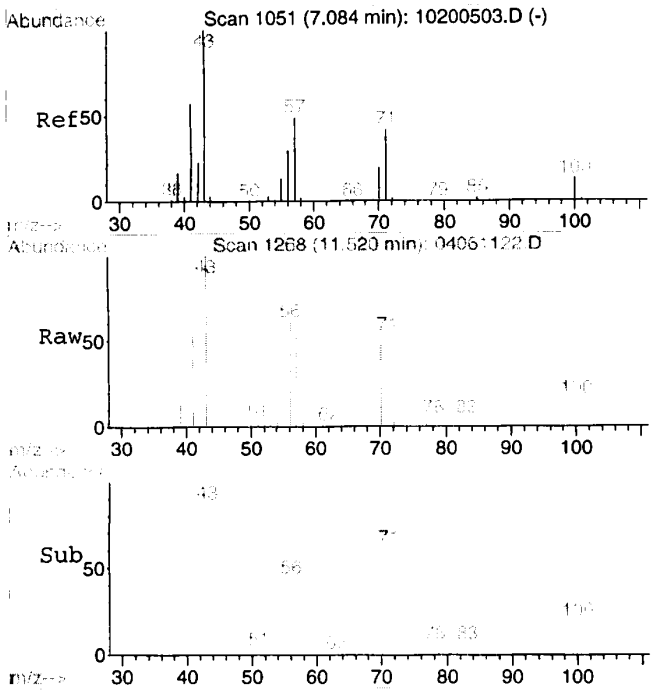


#31
Benzene
Concen: 4.12 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 78 Resp: 456821

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	19.0	0.0	36.1
52	17.1	0.0	36.0

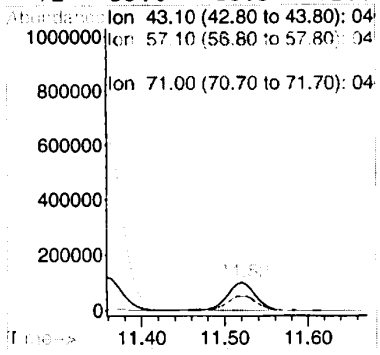


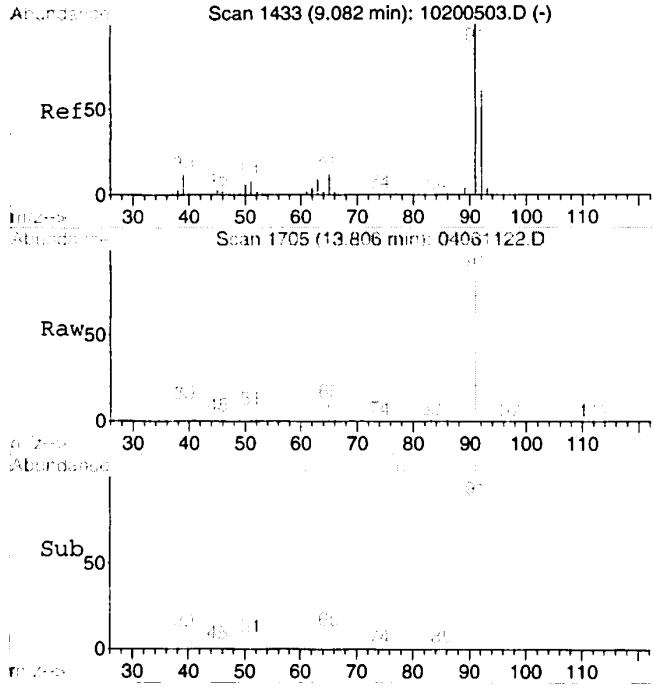


#34
Heptane
Concen: 3.06 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 43 Resp: 236986

Ion	Ratio	Lower	Upper
43	100		
57	57.7	42.2	63.4
100	14.5	17.3	25.9#
71	53.6	48.3	72.5

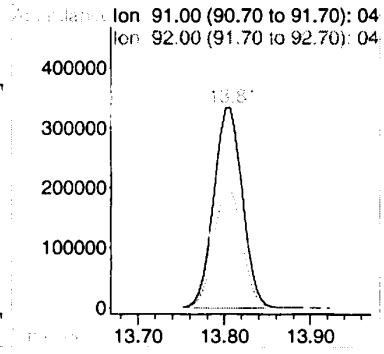


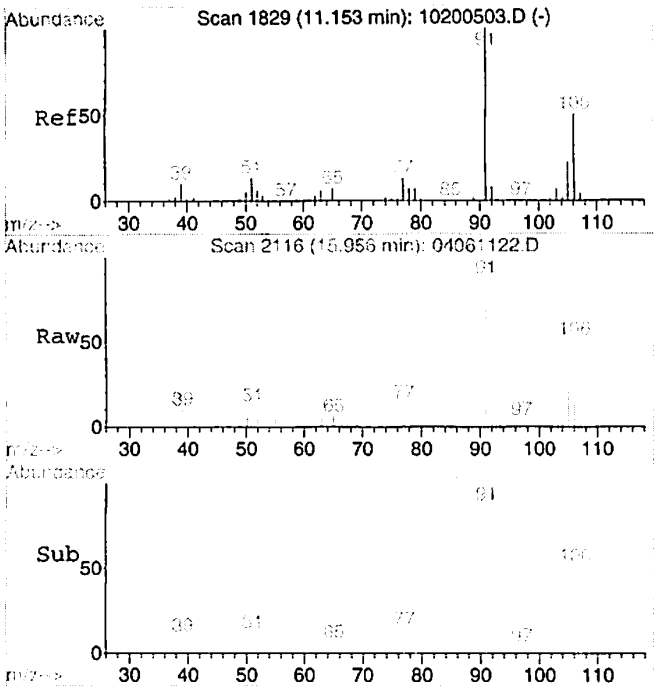


#41
Toluene
Concen: 6.42 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 91 Resp: 774348

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.0	0.0	31.2

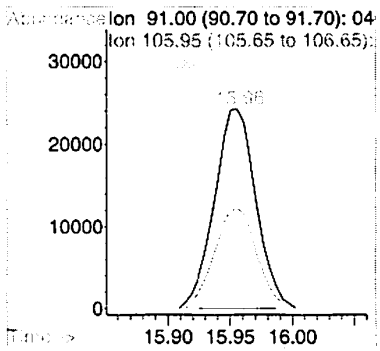




#51
m,p-Xylene
Concen: 0.55 ppbv
RT: 15.96 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061122.D
Acq: 7 Apr 2011 2:21 am

Tgt Ion: 91 Resp: 55984

Ion	Ratio	Lower	Upper
91	100		
106	51.2	35.6	75.6
51	10.1	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:59 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	461078	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1621683	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1264660	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	800836	12.63	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.04%				
Target Compounds							Qvalue
2) Propylene *	5.69	41	26961	0.78	ppbv		89
20) n-Hexane	9.39	57	2687093	39.91	ppbv		99
29) Cyclohexane	11.04	56	3568942	52.35	ppbv	#	75
31) Benzene *	11.48	78	1575946	13.83	ppbv		95
34) Heptane	11.52	43	3671565	46.88	ppbv	#	92
41) Toluene	13.81	91	2708138	22.16	ppbv		99
50) Ethylbenzene *	15.80	91	294195	2.00	ppbv		95
51) m,p-Xylene *	15.95	91	558641	4.91	ppbv		92
52) o-Xylene *	16.55	91	154792	1.40	ppbv	#	87

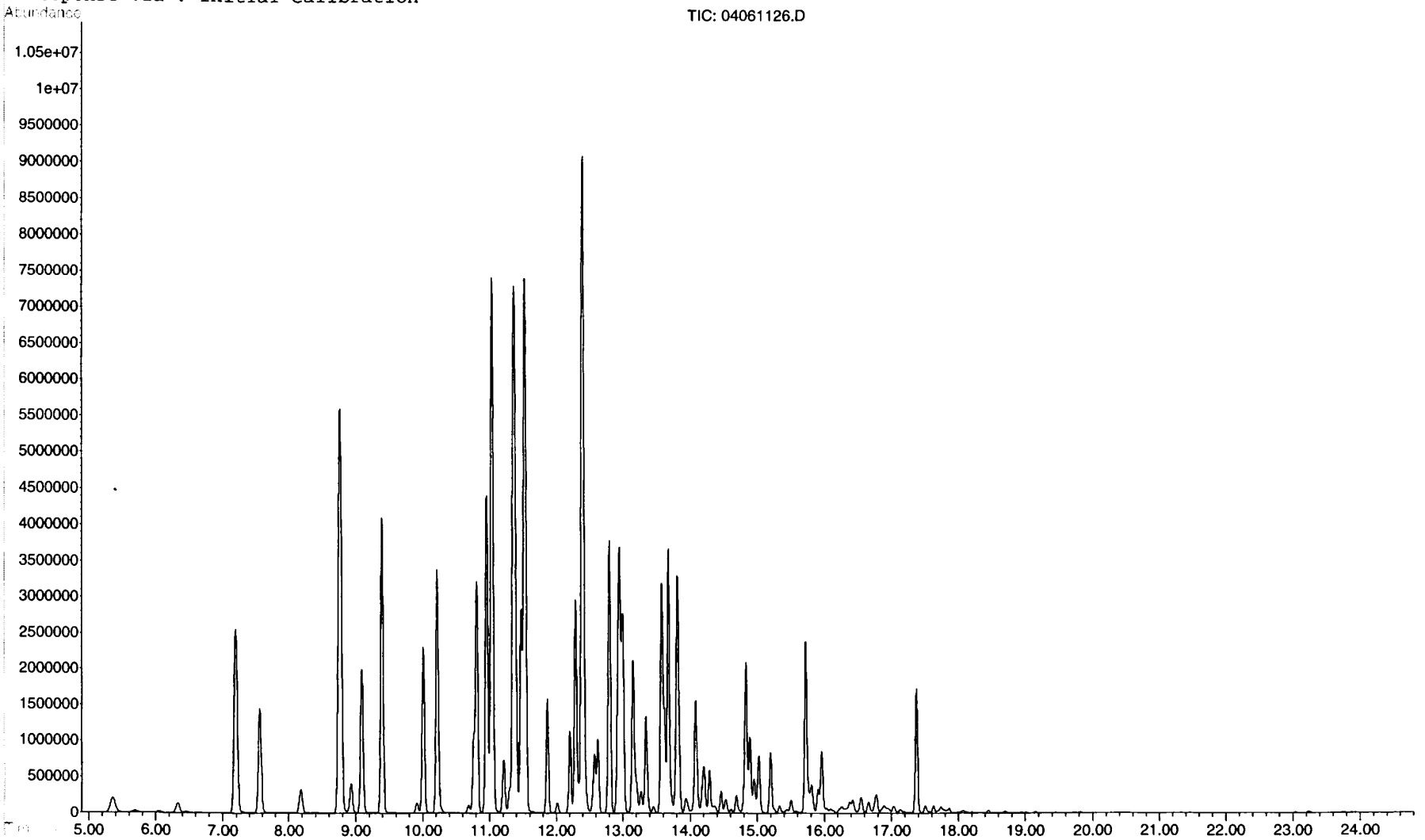
* = reported only ch 4/15/11

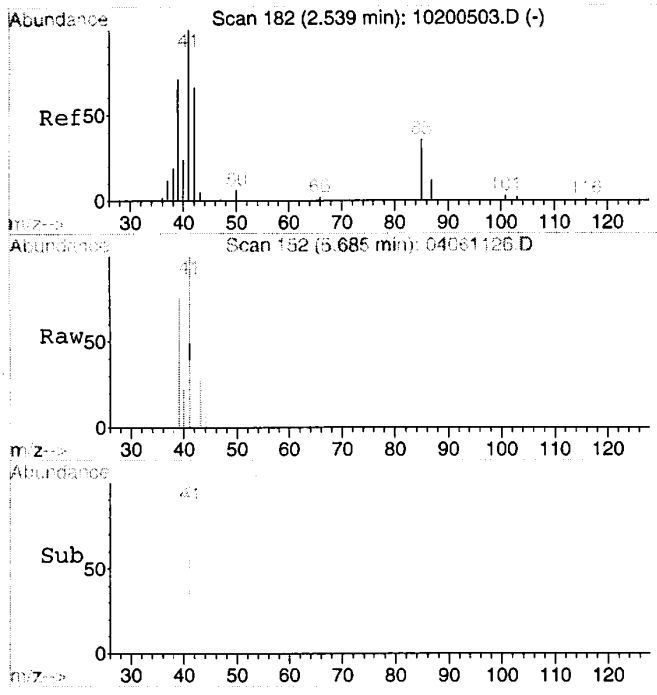
(#) = qualifier out of range (m) = manual integration
04061126.D 031611V1.M Thu Apr 14 13:23:55 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:59 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

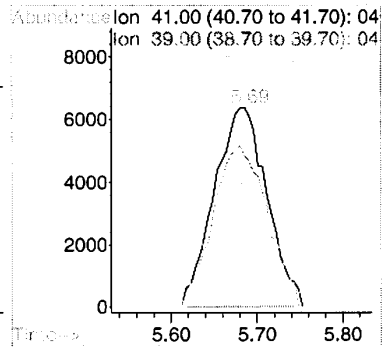


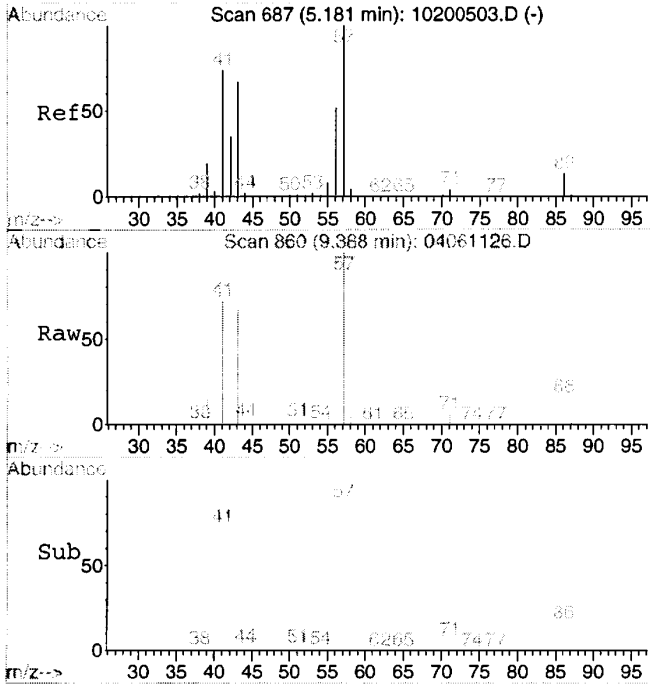


#2
Propylene
Concen: 0.78 ppbv
RT: 5.69 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 41 Resp: 26961

Ion	Ratio	Lower	Upper
41	100		
39	83.2	57.6	86.4
42	60.7	54.0	81.0

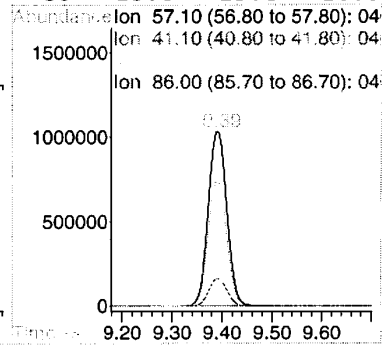


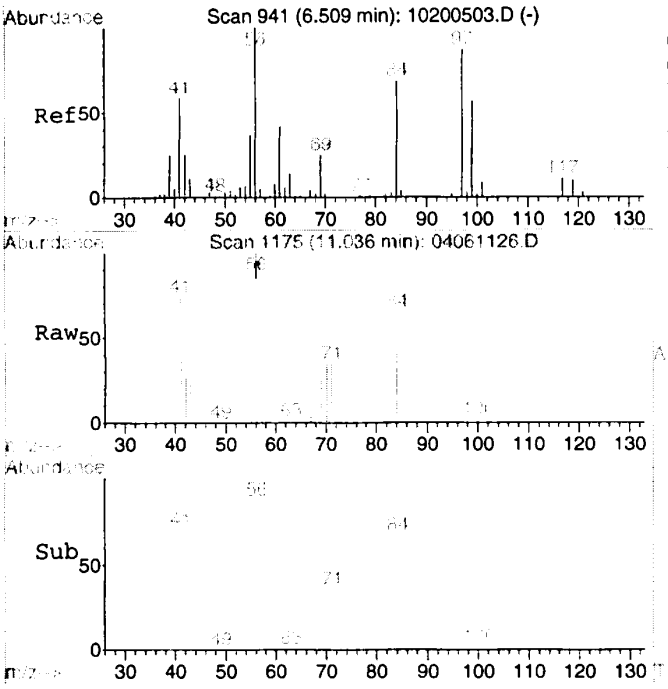


#20
n-Hexane
Concen: 39.91 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 57 Resp: 2687093

Ion	Ratio	Lower	Upper
57	100		
41	72.0	57.2	85.8
53	2.3	1.8	2.8
86	15.8	13.4	20.0

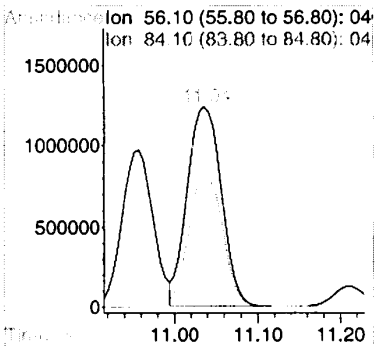


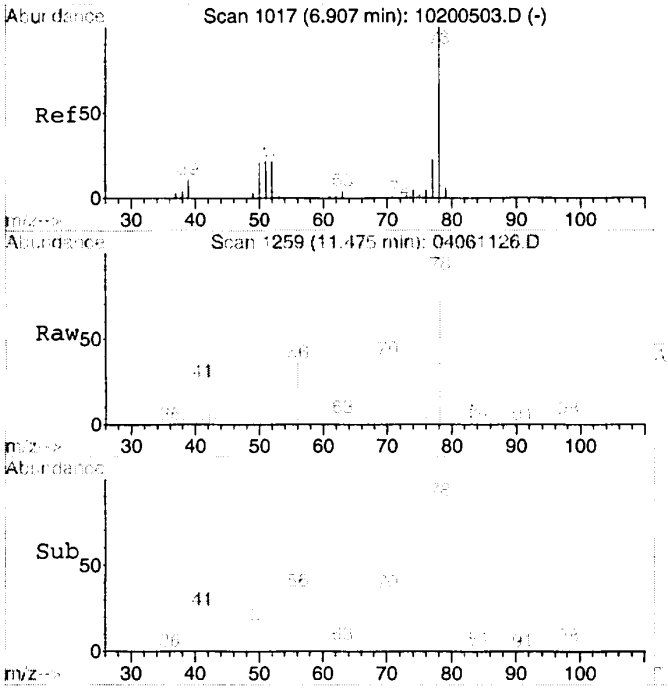


#29
Cyclohexane
Concen: 52.35 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 56 Resp: 3568942

Ion	Ratio	Lower	Upper
56	100		
84	66.7	72.4	108.6#
41	72.2	43.8	65.8#

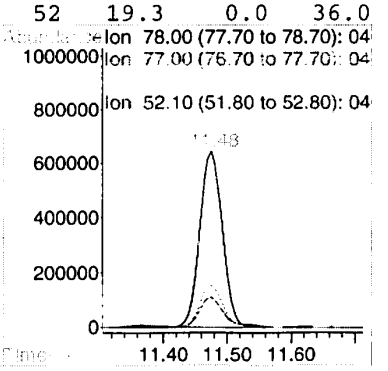


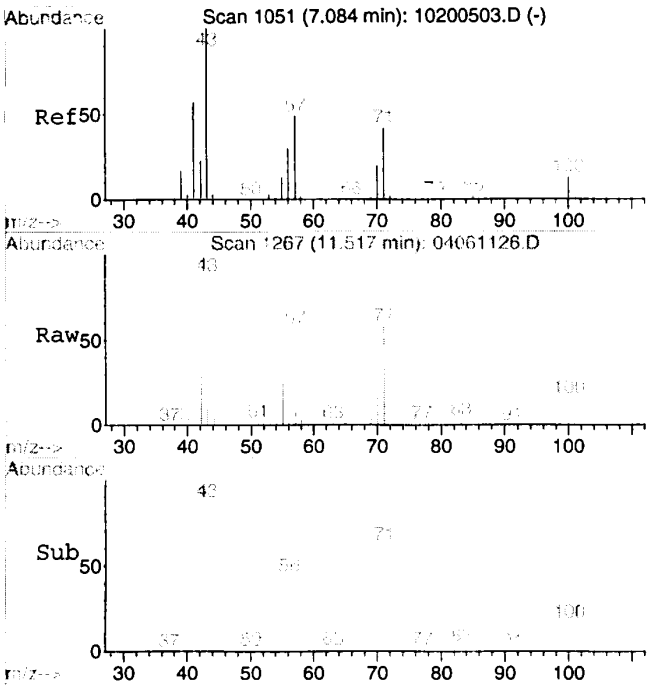


#31
Benzene
Concen: 13.83 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.01 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 78 Resp: 1575946

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.7	43.7
51	18.1	0.0	36.1
52	19.3	0.0	36.0

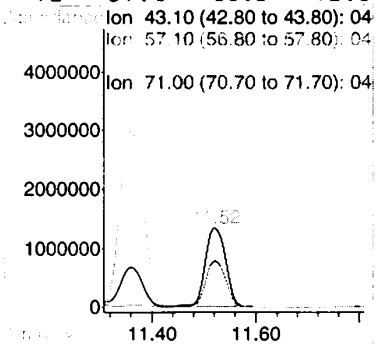


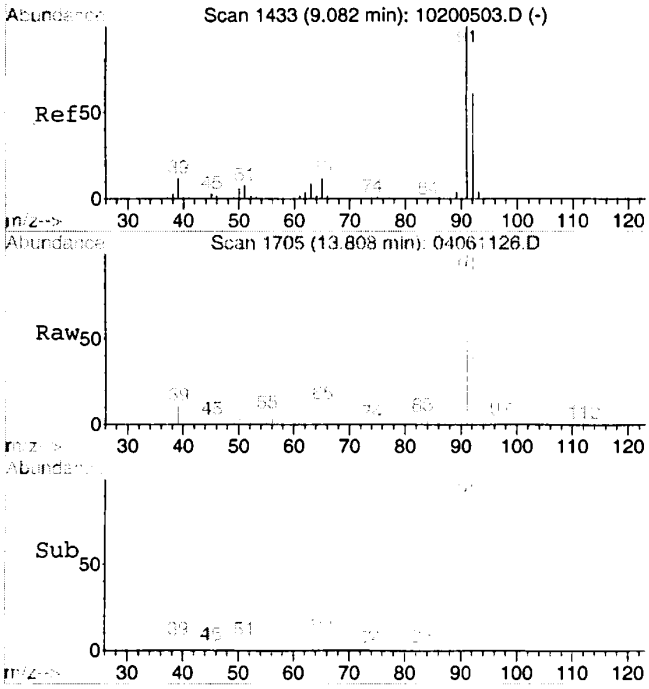


#34
Heptane
Concen: 46.88 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 43 Resp: 3671565

Ion	Ratio	Lower	Upper
43	100		
57	59.6	42.2	63.4
100	15.4	17.3	25.9#
71	57.4	48.3	72.5

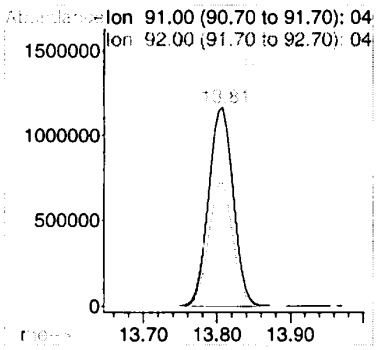


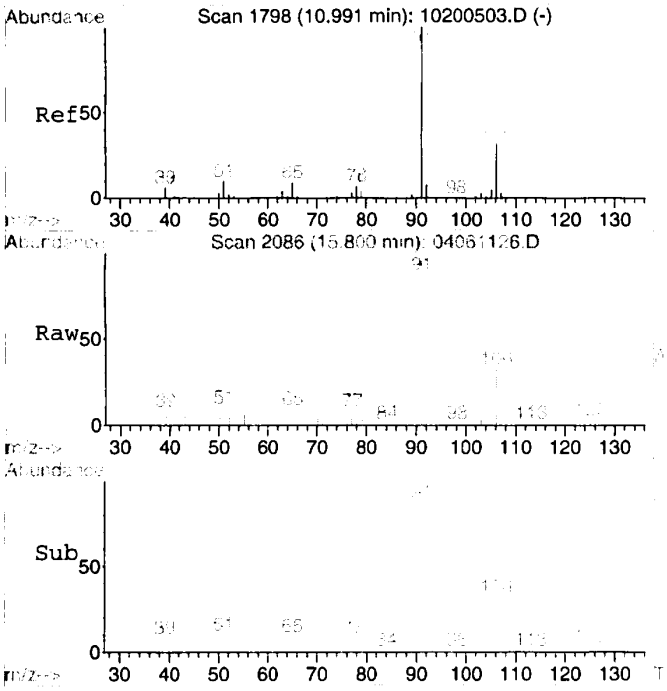


#41
Toluene
Concen: 22.16 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 91 Resp: 2708138

Ion	Ratio	Lower	Upper
91	100		
92	61.0	40.5	80.5
65	11.9	0.0	31.2

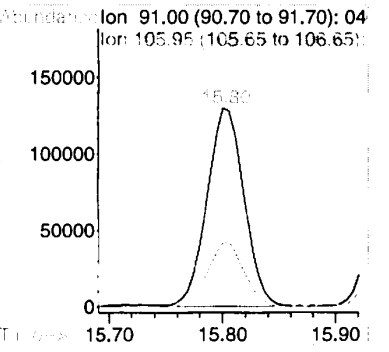


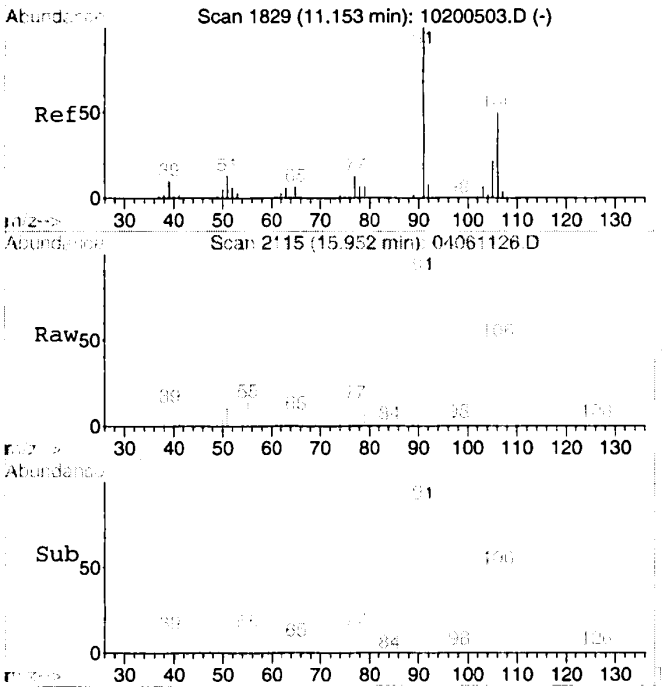


#50
Ethylbenzene
Concen: 2.00 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 91 Resp: 294195

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	11.0	0.0	33.1

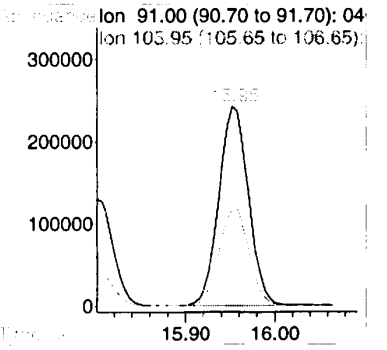


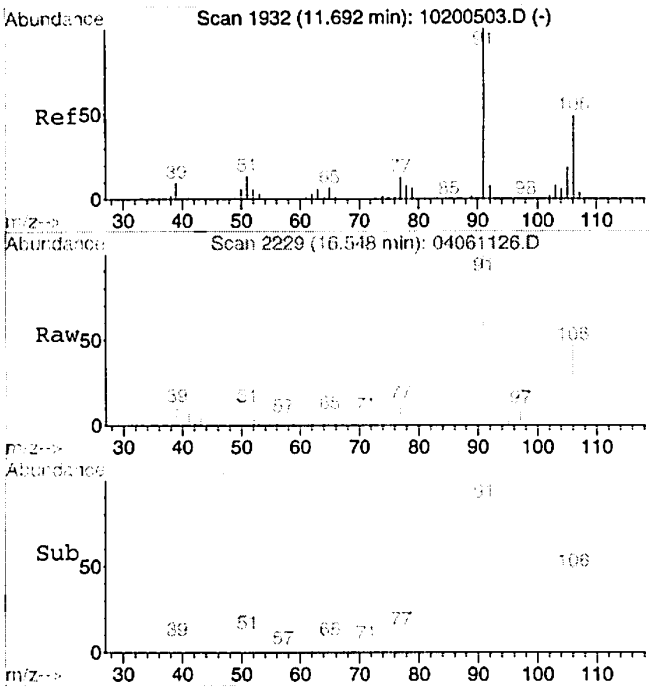


#51
m,p-Xylene
Concen: 4.91 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 91 Resp: 558641

Ion	Ratio	Lower	Upper
91	100		
106	49.4	35.6	75.6
51	11.2	0.0	29.6

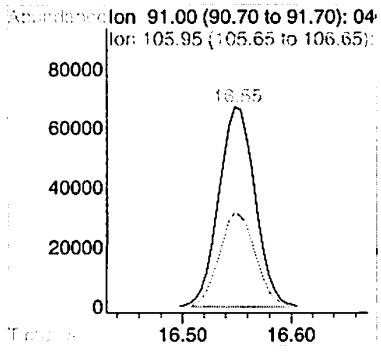




#52
o-Xylene
Concen: 1.40 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04061126.D
Acq: 7 Apr 2011 5:12 am

Tgt Ion: 91 Resp: 154792

Ion	Ratio	Lower	Upper
91	100		
106	46.7	41.0	61.6
51	12.0	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.356	64	89	117	rBV	208737	1129875	4.03%	0.362%
2	6.334	257	276	290	rBV3	143533	572287	2.04%	0.183%
3	7.192	423	440	478	rBV	2556957	9000659	32.11%	2.885%
4	7.558	494	510	538	rVB	1446659	4588347	16.37%	1.471%
5	8.185	615	630	649	rVB	332064	1068803	3.81%	0.343%
6	8.766	722	741	761	rBV3	5600899	19635913	70.06%	6.295%
7	8.928	761	772	789	rVB	411297	1212847	4.33%	0.389%
8	9.090	789	803	822	rBV	1998864	5491076	19.59%	1.760%
9	9.388	848	860	883	rBV	4095116	10573366	37.72%	3.390%
10	9.911	948	960	967	rBV	147802	404155	1.44%	0.130%
11	10.005	967	978	1004	rVV	2310493	6055114	21.60%	1.941%
12	10.215	1004	1018	1044	rVV	3388081	9055082	32.31%	2.903%
13	10.691	1097	1109	1114	rBV	108603	292033	1.04%	0.094%
14	10.811	1114	1132	1146	rVV2	3221550	10401485	37.11%	3.335%
15	10.957	1146	1160	1167	rVV	4408023	11706435	41.77%	3.753%
16	11.036	1167	1175	1197	rVV2	7419110	20941292	74.71%	6.713%
17	11.208	1197	1208	1217	rVV	732851	1955594	6.98%	0.627%
18	11.360	1217	1237	1250	rVV	7303193	25615261	91.39%	8.212%
19	11.470	1250	1258	1262	rVV2	2831967	6938467	24.75%	2.224%
20	11.522	1262	1268	1293	rVB2	7407436	20889890	74.53%	6.697%
21	11.862	1322	1333	1350	rBV	1589728	3647334	13.01%	1.169%
22	12.014	1352	1362	1376	rVB	144857	365333	1.30%	0.117%
23	12.202	1385	1398	1405	rBV	1137003	2629861	9.38%	0.843%
24	12.286	1405	1414	1424	rVV	2976518	7832875	27.95%	2.511%
25	12.396	1425	1435	1456	rVV	9103688	28028902	100.00%	8.986%
26	12.573	1456	1469	1474	rVV3	823759	2368604	8.45%	0.759%
27	12.626	1474	1479	1493	rVB	1024487	2365630	8.44%	0.758%
28	12.798	1499	1512	1525	rBV2	3788348	9676706	34.52%	3.102%
29	12.945	1525	1540	1546	rBV2	3688153	11671972	41.64%	3.742%
30	13.149	1567	1579	1596	rBV2	2116471	6345019	22.64%	2.034%
31	13.269	1596	1602	1608	rBV	197418	384033	1.37%	0.123%
32	13.342	1608	1616	1631	rVB	1330763	3418818	12.20%	1.096%
33	13.578	1647	1661	1667	rBV	3200256	8732998	31.16%	2.800%
34	13.677	1673	1680	1694	rVB	3576577	8036476	28.67%	2.576%
35	13.808	1694	1705	1721	rVB	3293813	9371120	33.43%	3.004%
36	13.933	1721	1729	1742	rBV4	192232	581797	2.08%	0.187%
37	14.080	1742	1757	1769	rBV2	1548459	4229736	15.09%	1.356%
38	14.200	1769	1780	1790	rBV4	583326	1744821	6.23%	0.559%
39	14.289	1790	1797	1805	rBV	512448	1039890	3.71%	0.333%
40	14.461	1821	1830	1836	rBV	300075	669601	2.39%	0.215%
41	14.529	1836	1843	1852	rVV4	190245	482174	1.72%	0.155%
42	14.686	1865	1873	1886	rBV	243931	602494	2.15%	0.193%
43	14.828	1886	1900	1907	rVV	2084805	5607078	20.00%	1.798%

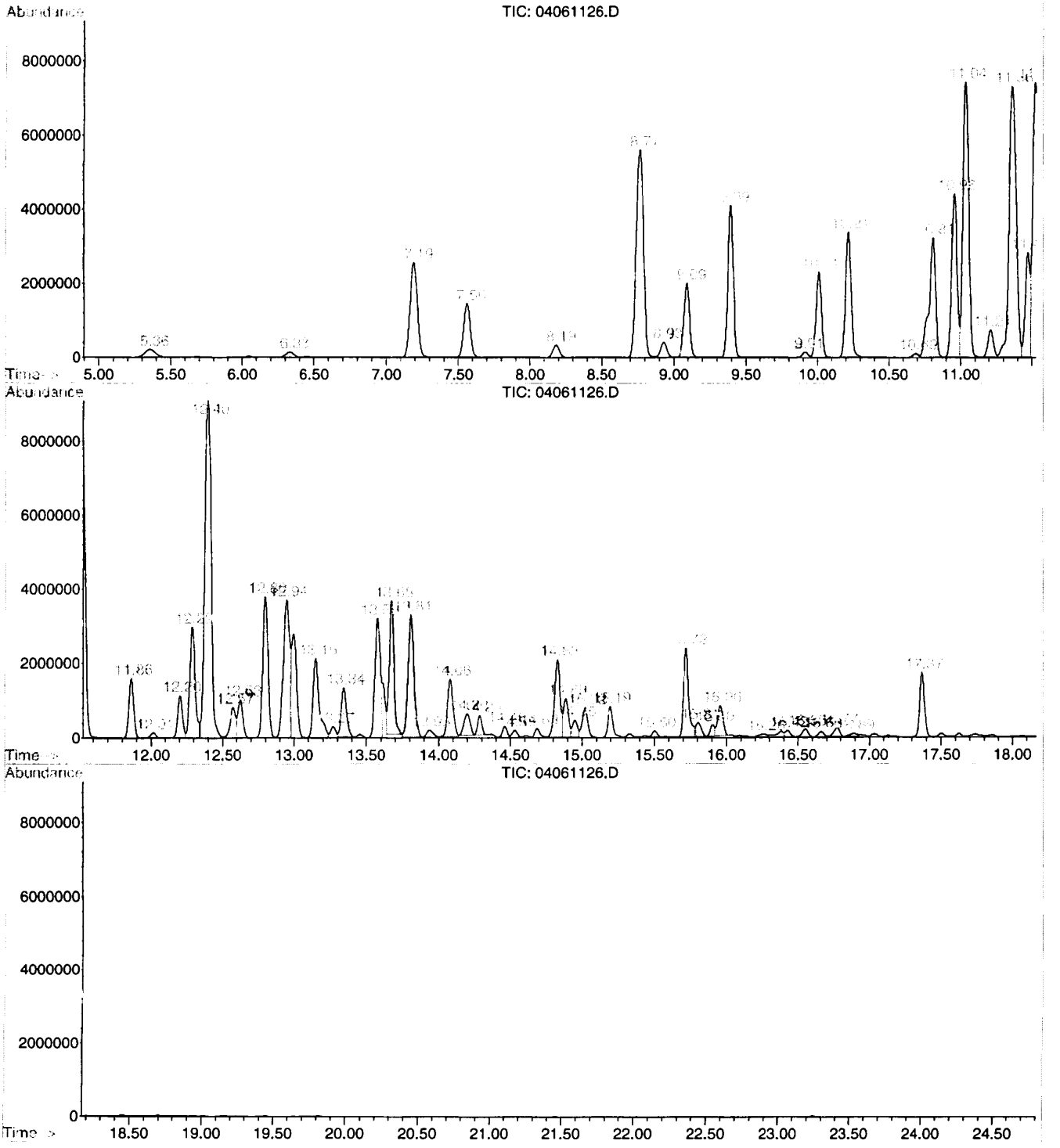
44	14.885	1907	1911	1918	rVV	1044269	2428729	8.67%	0.779%
45	14.948	1918	1923	1929	rVV3	466200	1152327	4.11%	0.369%
46	15.021	1929	1937	1958	rVB2	803290	2178544	7.77%	0.698%
47	15.194	1958	1970	1988	rBV	843863	2098412	7.49%	0.673%
48	15.502	2022	2029	2039	rVB	165879	377471	1.35%	0.121%
49	15.717	2059	2070	2082	rBV	2387510	6057936	21.61%	1.942%
50	15.806	2084	2087	2097	rVB2	372886	810903	2.89%	0.260%
51	15.905	2097	2106	2109	rBV	309220	656990	2.34%	0.211%
52	15.957	2109	2116	2127	rVB	808782	2065650	7.37%	0.662%
53	16.261	2158	2174	2180	rBV4	82222	330236	1.18%	0.106%
54	16.423	2201	2205	2217	rVB	163504	392362	1.40%	0.126%
55	16.548	2219	2229	2240	rVB2	217586	597913	2.13%	0.192%
56	16.658	2240	2250	2260	rBV3	145018	400163	1.43%	0.128%
57	16.773	2260	2272	2282	rVB5	242315	727479	2.60%	0.233%
58	16.888	2282	2294	2301	rBV8	85330	307966	1.10%	0.099%
59	17.369	2364	2386	2401	rBV	1730863	3990235	14.24%	1.279%

Sum of corrected areas: 311934569

04061126.D 031611V1.M Thu Apr 14 13:24:00 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061126.D
Operator : Michael Truchan/Rachel Hill
Acquired : 7 Apr 2011 5:12 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-005A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 17
Quant File :031611V1.RES (RTE Integrator)



04061126.D 031611V1.M Thu Apr 14 13:24:01 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	10.82 ppbv	9000660	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	23.60 ppbv	19635900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
4	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	64
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	6.60 ppbv	5491080	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	7.28 ppbv	6055110	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	10.88 ppbv	9055080	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	58
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	14.07 ppbv	11706400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	87.79 ppbv	25615300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	64
5	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	64

****

Peak Number 8 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	9.01 ppbv	2629860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	47

****

Peak Number 9 Hexane, 1-(hexyloxy)-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	26.84 ppbv	7832880	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
3	1-Pentanol, 2,2-dimethyl-	116	C7H16O	002370-12-9	42
4	Octane, 3,4-dimethyl- $$ 3,4-Dimeth	142	C10H22	015869-92-8	38
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	38

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- $$ Cycloh Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	96.06 ppbv	28028900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 11 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	8.12 ppbv	2368600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	90
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	78
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43

****

Peak Number 12 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	8.11 ppbv	2365630	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	86
2	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	72
3	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	64
4	Cyclobutane, 2-ethyl-1-methyl-3-pro	140	C10H20	061233-72-5	50
5	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	016883-48-0	47

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 1-Heptene, 4-methyl- $$ 4-Meth Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	33.16 ppbv	9676710	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	72
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
3	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56
4	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	53
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50

****

Peak Number 14 Heptane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	40.00 ppbv	11672000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	74
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	21.75 ppbv	6345020	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	11.72 ppbv	3418820	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	74
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	72

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	29.93 ppbv	8733000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 18 Octane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	27.54 ppbv	8036480	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane	114	C8H18	000111-65-9	87
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72
5	Octane	114	C8H18	000111-65-9	72

Data File : C:\HPCHEM\1\DATA\040611\04061126.D Vial: 17
Acq On : 7 Apr 2011 5:12 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	8.73 ppbv	4229740	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	11.57 ppbv	5607080	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	81

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 7 Apr 2011 5:12 am
Data File: C:\HPCHEM\1\DATA\040611\04061126.D
Name: 1103609-005A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Butane, 2-methyl-	7.19	10.8	ppbv	9000660	ISTD01	10.76	10401500	12.5
Pentane, 2-methyl-	8.77	23.6	ppbv	19635900	ISTD01	10.76	10401500	12.5
Pentane, 3-methyl-	9.09	6.6	ppbv	5491080	ISTD01	10.76	10401500	12.5
Pentane, 2,4-dimethy	10.01	7.3	ppbv	6055110	ISTD01	10.76	10401500	12.5
Cyclopentane, methyl	10.21	10.9	ppbv	9055080	ISTD01	10.76	10401500	12.5
Pentane, 2,3-dimethy	10.96	14.1	ppbv	11706400	ISTD01	10.76	10401500	12.5
Pentane, 2,2,4-trime	11.36	87.8	ppbv	25615300	ISTD02	11.86	3647330	12.5
Hexane, 2,5-dimethyl	12.20	9.0	ppbv	2629860	ISTD02	11.86	3647330	12.5
Hexane, 1-(hexyloxy)	12.29	26.8	ppbv	7832880	ISTD02	11.86	3647330	12.5
Cyclohexane, methyl-	12.40	96.1	ppbv	28028900	ISTD02	11.86	3647330	12.5
Cyclopentane, ethyl-	12.57	8.1	ppbv	2368600	ISTD02	11.86	3647330	12.5
Cyclopentane, 1,2,4-	12.63	8.1	ppbv	2365630	ISTD02	11.86	3647330	12.5
1-Heptene, 4-methyl-	12.80	33.2	ppbv	9676710	ISTD02	11.86	3647330	12.5
Heptane, 2-methyl-	12.94	40.0	ppbv	11672000	ISTD02	11.86	3647330	12.5
Heptane, 3-methyl-	13.15	21.7	ppbv	6345020	ISTD02	11.86	3647330	12.5
Hexane, 2,2,5-trimet	13.34	11.7	ppbv	3418820	ISTD02	11.86	3647330	12.5
Cyclohexane, 1,3-dim	13.58	29.9	ppbv	8733000	ISTD02	11.86	3647330	12.5
Octane	13.68	27.5	ppbv	8036480	ISTD02	11.86	3647330	12.5
Cyclohexane, 1,2-dim	14.08	8.7	ppbv	4229740	ISTD03	15.72	6057940	12.5
Cyclohexane, ethyl-	14.83	11.6	ppbv	5607080	ISTD03	15.72	6057940	12.5

04061126.D 031611V1.M Thu Apr 14 13:24:02 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:59 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	464599	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1601510	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1305601	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	844366	12.90	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 103.20%				
Target Compounds							Qvalue
2) Propylene *	5.68	41	100524	2.89	ppbv		92
~20) n-Hexane	9.39	57	5622353	82.87	ppbv		98
~29) Cyclohexane	11.03	56	5064095	73.72	ppbv	#	81
-31) Benzene	11.47	78	3419127	29.77	ppbv		94
-34) Heptane	11.52	43	2726165	35.25	ppbv	#	92
-41) Toluene	13.81	91	4153149	34.41	ppbv		98
50) Ethylbenzene *	15.80	91	381072	2.51	ppbv		94
51) m,p-Xylene *	15.95	91	612393	5.21	ppbv		92
52) o-Xylene *	16.55	91	198204	1.73	ppbv	#	87
57) 4-Ethyltoluene *	17.73	105	82974	0.61	ppbv		98
58) 1,3,5-Trimethylbenzene *	17.73	105	82974	0.74	ppbv		77
59) 1,2,4-Trimethylbenzene *	18.44	105	63738	0.63	ppbv		96

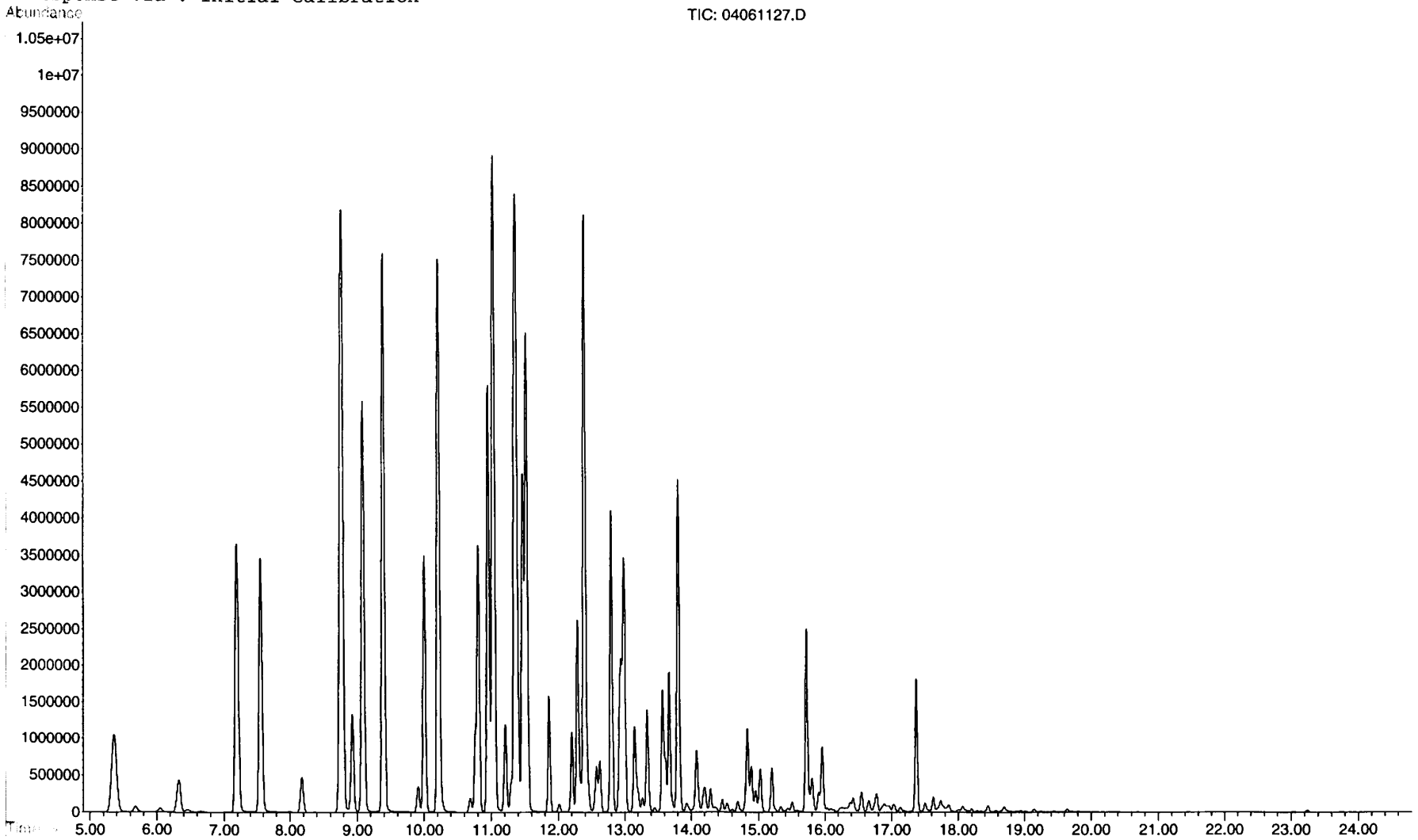
* = reported only ch 4/15/11

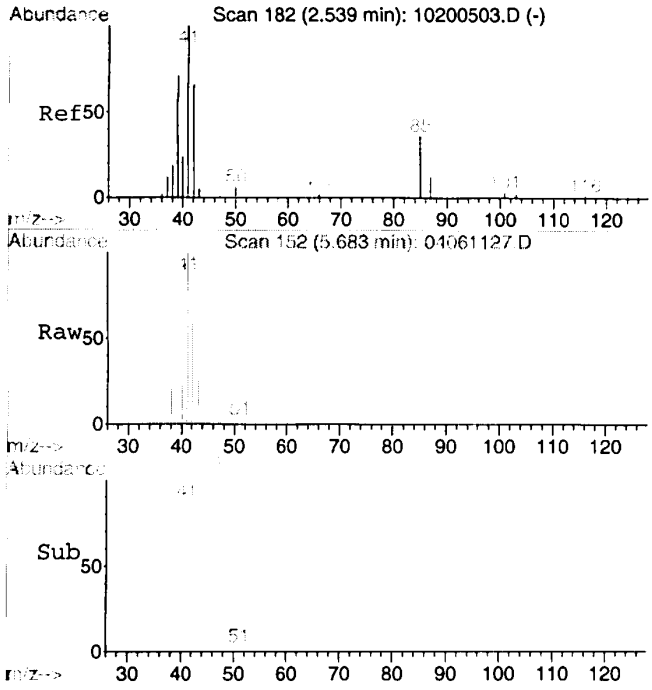
(#) = qualifier out of range (m) = manual integration
04061127.D 031611V1.M Thu Apr 14 13:24:07 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 7 9:59 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

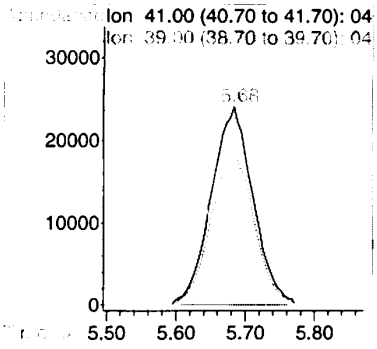


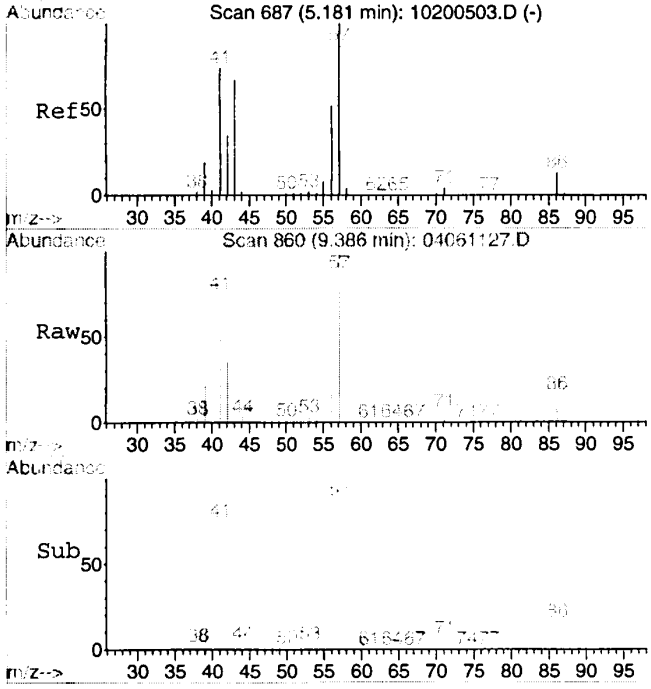


#2
Propylene
Concen: 2.89 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 41 Resp: 100524

Ion	Ratio	Lower	Upper
41	100		
39	79.6	57.6	86.4
42	61.7	54.0	81.0

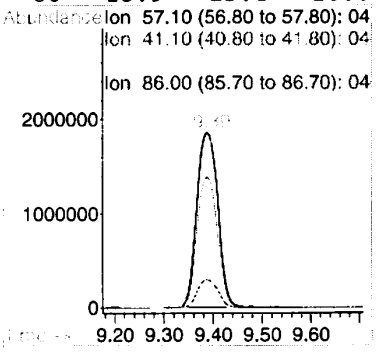


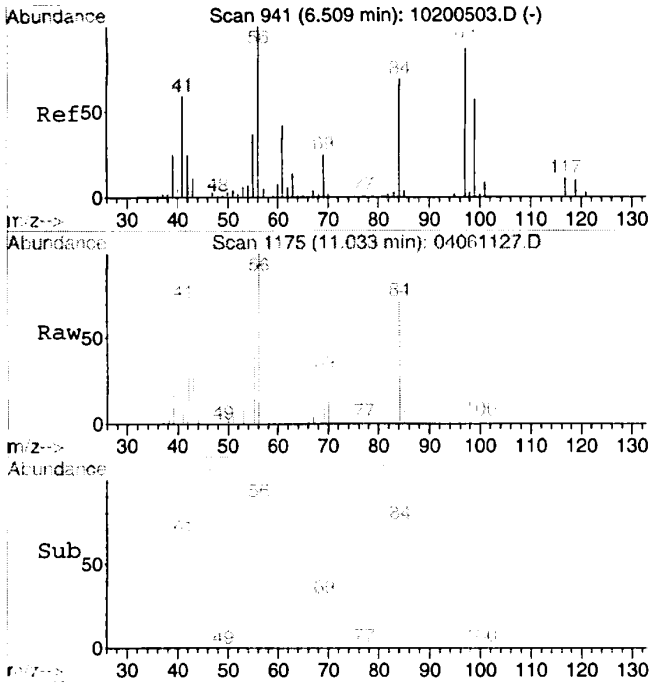


#20
n-Hexane
Concen: 82.87 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 57 Resp: 5622353

Ion	Ratio	Lower	Upper
57	100		
41	73.4	57.2	85.8
53	2.7	1.8	2.8
86	15.9	13.4	20.0

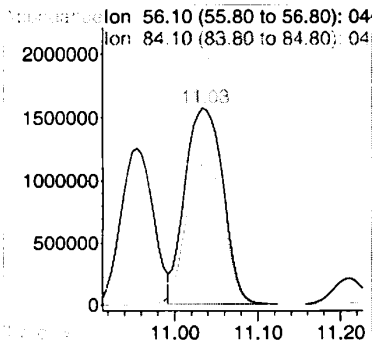


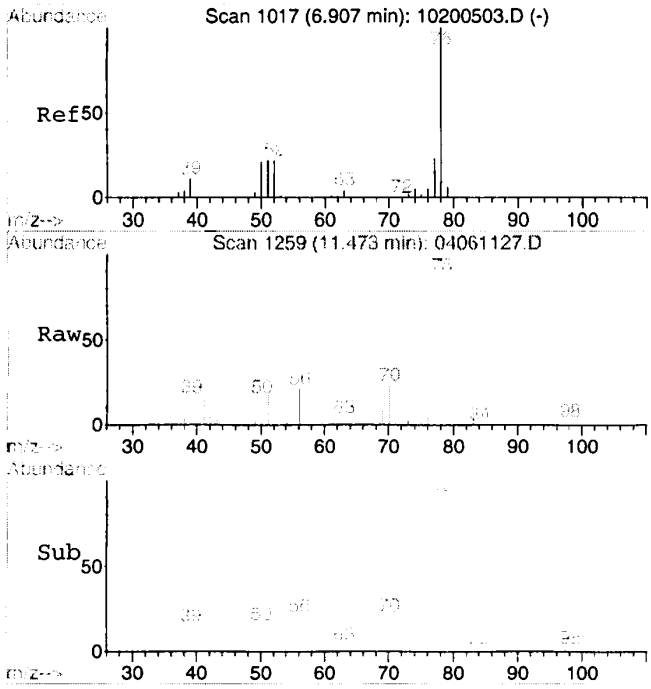


#29
Cyclohexane
Concen: 73.72 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 56 Resp: 5064095

Ion	Ratio	Lower	Upper
56	100		
84	72.7	72.4	108.6
41	68.9	43.8	65.8#

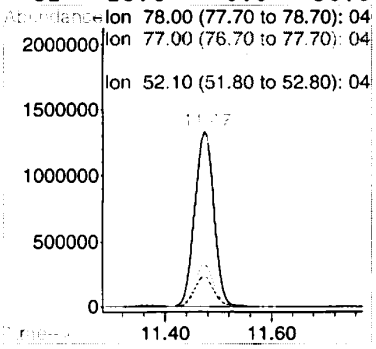


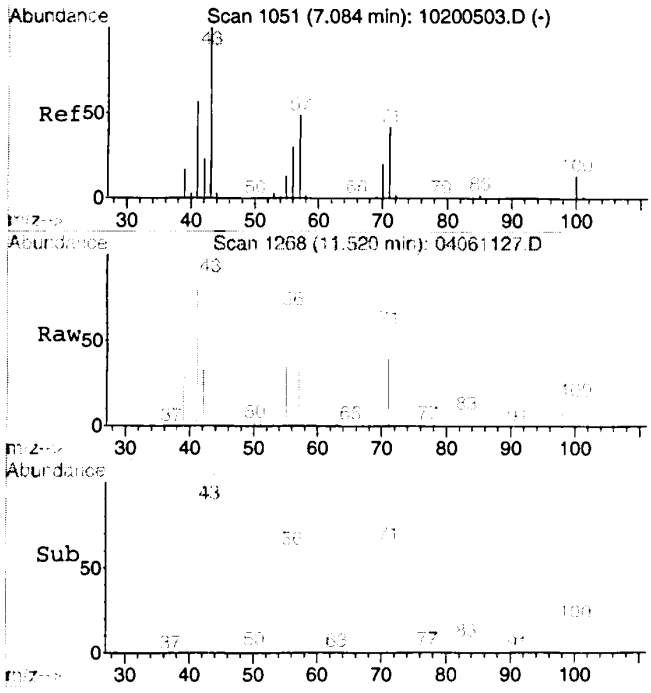


#31
Benzene
Concen: 29.77 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 78 Resp: 3419127

Ion	Ratio	Lower	Upper
78	100		
77	25.3	3.7	43.7
51	20.2	0.0	36.1
52	18.4	0.0	36.0

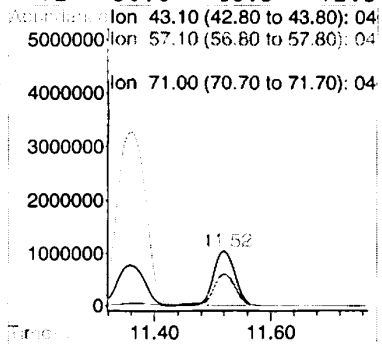


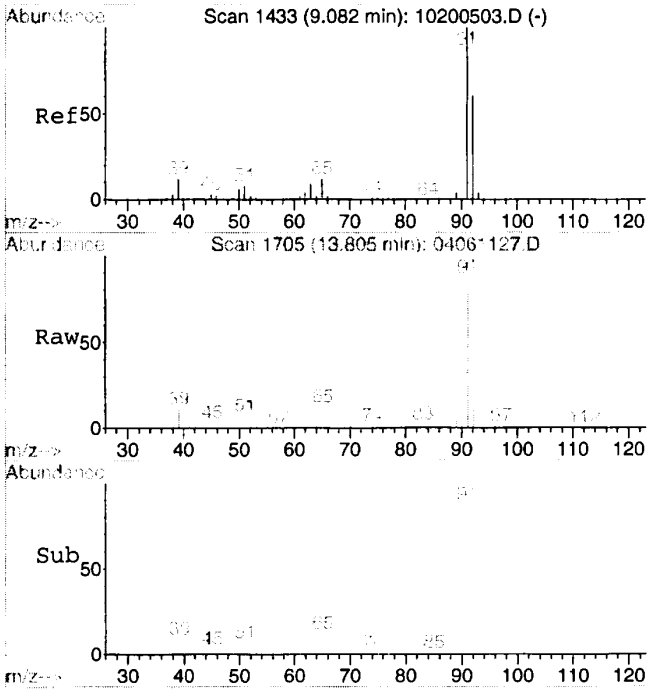


#34
Heptane
Concen: 35.25 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 43 Resp: 2726165

Ion	Ratio	Lower	Upper
43	100		
57	58.6	42.2	63.4
100	14.6	17.3	25.9#
71	56.6	48.3	72.5

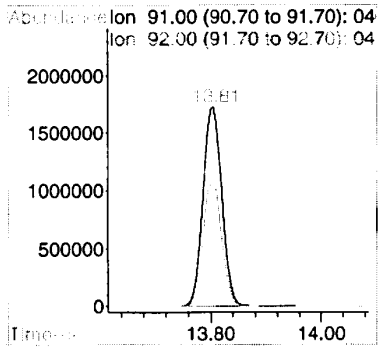


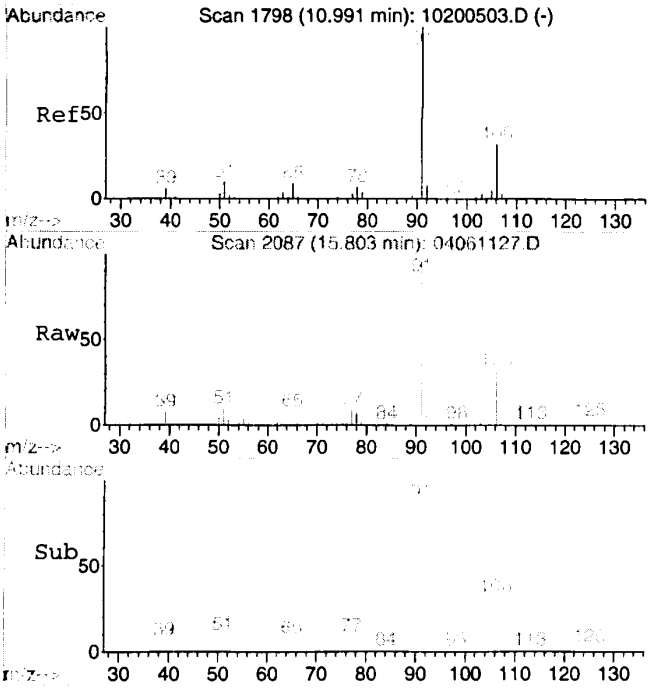


#41
Toluene
Concen: 34.41 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 91 Resp: 4153149

Ion	Ratio	Lower	Upper
91	100		
92	62.1	40.5	80.5
65	11.8	0.0	31.2

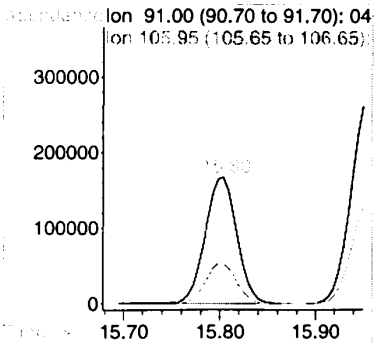


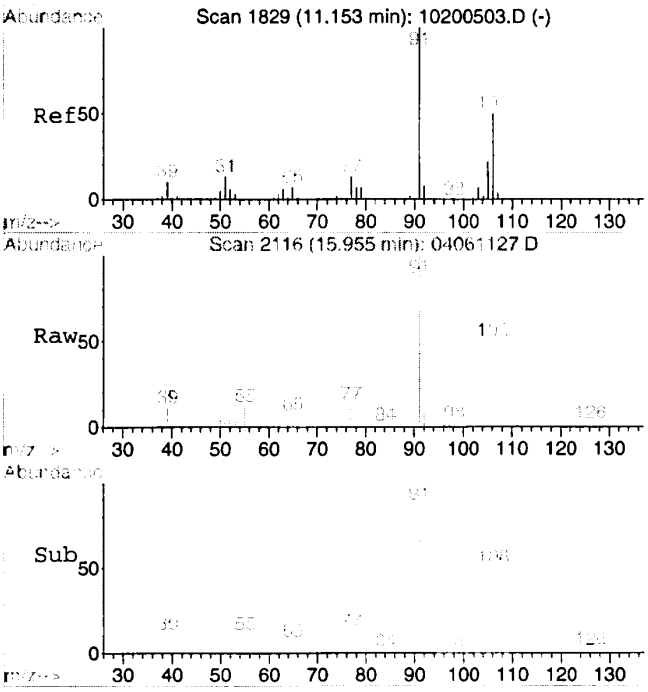


#50
Ethylbenzene
Concen: 2.51 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 91 Resp: 381072

Ion	Ratio	Lower	Upper
91	100		
106	31.8	14.9	54.9
51	10.7	0.0	33.1

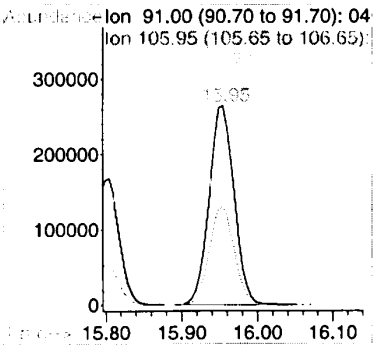


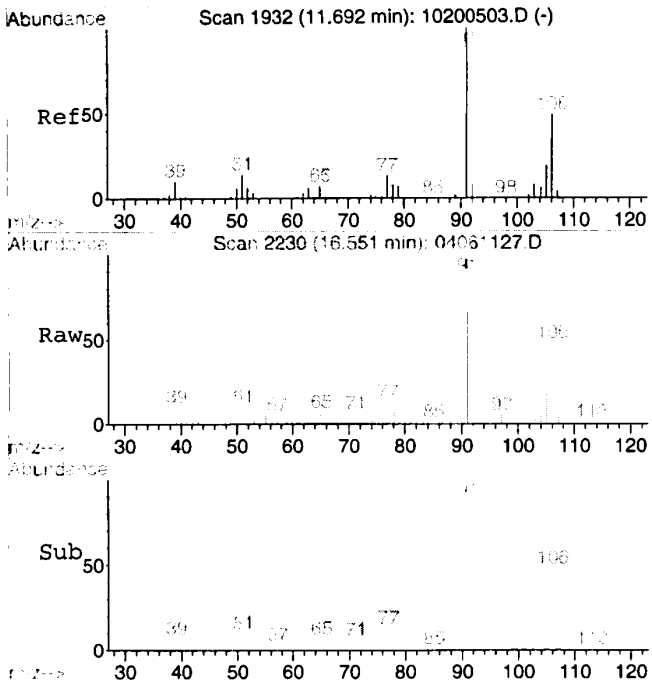


#51
m,p-Xylene
Concen: 5.21 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 91 Resp: 612393

Ion	Ratio	Lower	Upper
91	100		
106	49.3	35.6	75.6
51	10.8	0.0	29.6

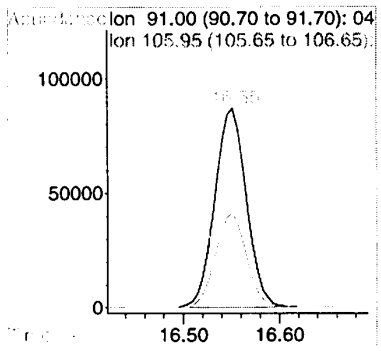


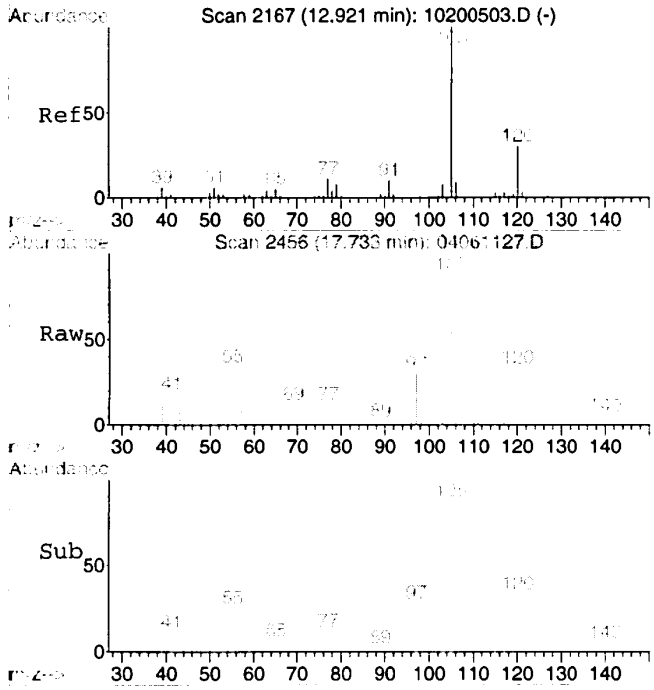


#52
o-Xylene
Concen: 1.73 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion: 91 Resp: 198204

Ion	Ratio	Lower	Upper
91	100		
106	47.1	41.0	61.6
51	11.5	19.7	29.5#

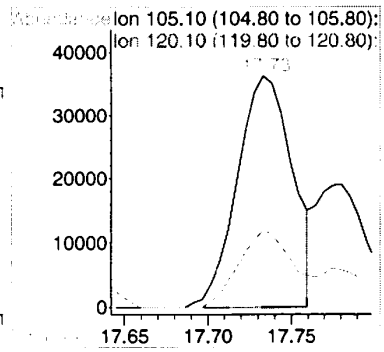


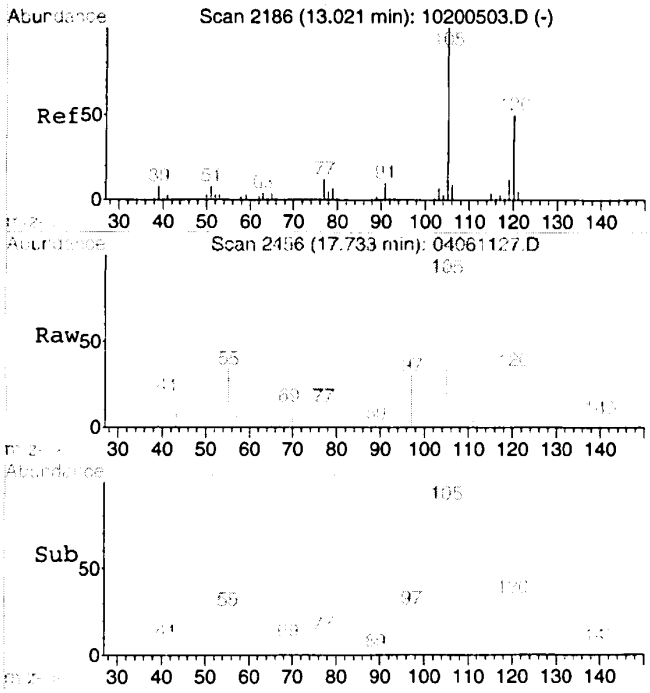


#57
4-Ethyltoluene
Concen: 0.61 ppbv
RT: 17.73 min Scan# 2456
Delta R.T. -0.05 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion:105 Resp: 82974

Ion	Ratio	Lower	Upper
105	100		
120	33.5	26.0	39.0

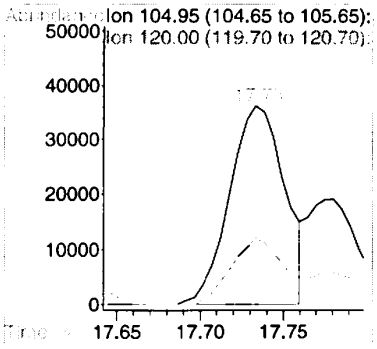


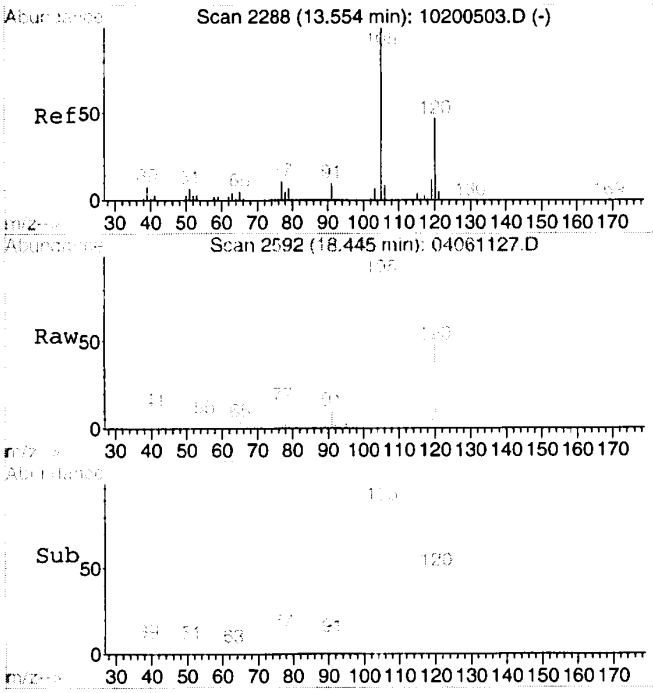


#58
1,3,5-Trimethylbenzene
Concen: 0.74 ppbv
RT: 17.73 min Scan# 2456
Delta R.T. -0.13 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion:105 Resp: 82974

Ion	Ratio	Lower	Upper
105	100		
120	33.5	32.1	72.1
91	12.9	0.0	30.4

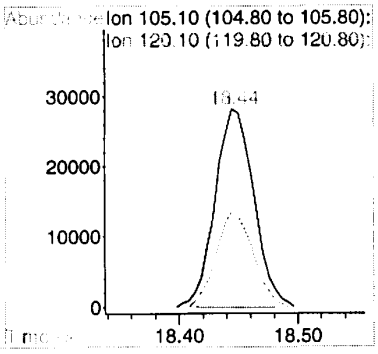




#59
1,2,4-Trimethylbenzene
Concen: 0.63 ppbv
RT: 18.44 min Scan# 2592
Delta R.T. -0.00 min
Lab File: 04061127.D
Acq: 7 Apr 2011 9:32 am

Tgt Ion:105 Resp: 63738

Ion	Ratio	Lower	Upper
105	100		
120	45.8	38.9	58.3
91	11.0	8.2	12.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040611\04061127.D
Acq On : 7 Apr 2011 9:32 am
Sample : 1103609-010A
Misc : SAMP EPA_TO15-UG/M3
MS Integration Params: LSCINT.P

Vial: 18
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.353	62	89	133	rBV	1053724	5726298	18.13%	1.474%
2	5.683	135	152	173	rVB3	84137	367603	1.16%	0.095%
3	6.326	256	275	291	rBV3	446085	1838451	5.82%	0.473%
4	7.189	422	440	472	rBV	3669402	13196856	41.77%	3.398%
5	7.561	492	511	539	rBV	3476712	11474627	36.32%	2.954%
6	8.178	613	629	653	rVB	487594	1568677	4.97%	0.404%
7	8.764	723	741	760	rBV3	8200825	30808465	97.52%	7.932%
8	8.926	761	772	788	rVV	1342421	3884245	12.30%	1.000%
9	9.088	788	803	831	rVB	5590319	16663602	52.75%	4.290%
10	9.386	847	860	885	rVB	7599063	22584421	71.49%	5.815%
11	9.909	947	960	968	rBV	352623	984497	3.12%	0.253%
12	10.003	968	978	1000	rVB	3505783	9463993	29.96%	2.437%
13	10.212	1003	1018	1045	rBV	7534423	22402176	70.91%	5.768%
14	10.688	1096	1109	1115	rBV	198337	553099	1.75%	0.142%
15	10.809	1115	1132	1146	rVV2	3646183	11622983	36.79%	2.993%
16	10.955	1146	1160	1167	rVV	5812089	15829609	50.11%	4.076%
17	11.033	1167	1175	1197	rVV2	8935949	27860101	88.19%	7.173%
18	11.211	1197	1209	1218	rVV	1196632	3217224	10.18%	0.828%
19	11.363	1218	1238	1250	rVV	8419725	31590558	100.00%	8.134%
20	11.467	1250	1258	1263	rVV2	4611964	11965792	37.88%	3.081%
21	11.525	1263	1269	1299	rVB4	6529460	18155797	57.47%	4.675%
22	11.860	1322	1333	1346	rBV	1585461	3608957	11.42%	0.929%
23	12.200	1386	1398	1406	rBV	1093403	2558424	8.10%	0.659%
24	12.283	1406	1414	1424	rVV	2622667	6933457	21.95%	1.785%
25	12.393	1425	1435	1456	rVV	8127284	24241079	76.74%	6.241%
26	12.571	1457	1469	1474	rVV3	615545	1714039	5.43%	0.441%
27	12.623	1474	1479	1494	rVB	704133	1651806	5.23%	0.425%
28	12.796	1498	1512	1525	rBV2	4118486	10579590	33.49%	2.724%
29	12.942	1525	1540	1543	rBV4	2080840	5989856	18.96%	1.542%
30	12.989	1544	1549	1567	rVB	3477329	9020160	28.55%	2.322%
31	13.146	1568	1579	1596	rBV2	1165427	3736020	11.83%	0.962%
32	13.267	1596	1602	1608	rVV	166953	406487	1.29%	0.105%
33	13.340	1608	1616	1631	rVB	1388395	3437253	10.88%	0.885%
34	13.575	1647	1661	1673	rBV	1667309	5563120	17.61%	1.432%
35	13.669	1673	1679	1694	rVV	1867473	4266150	13.50%	1.098%
36	13.805	1694	1705	1720	rVB	4529451	11686265	36.99%	3.009%
37	13.931	1720	1729	1741	rBV4	114611	334427	1.06%	0.086%
38	14.077	1741	1757	1769	rBV5	828622	2387234	7.56%	0.615%
39	14.198	1770	1780	1790	rVB5	297480	887113	2.81%	0.228%
40	14.281	1790	1796	1804	rBV	272829	562092	1.78%	0.145%
41	14.459	1821	1830	1836	rBV	175721	390749	1.24%	0.101%
42	14.684	1864	1873	1887	rBV2	143482	374620	1.19%	0.096%
43	14.825	1887	1900	1907	rVV	1142017	3128114	9.90%	0.805%

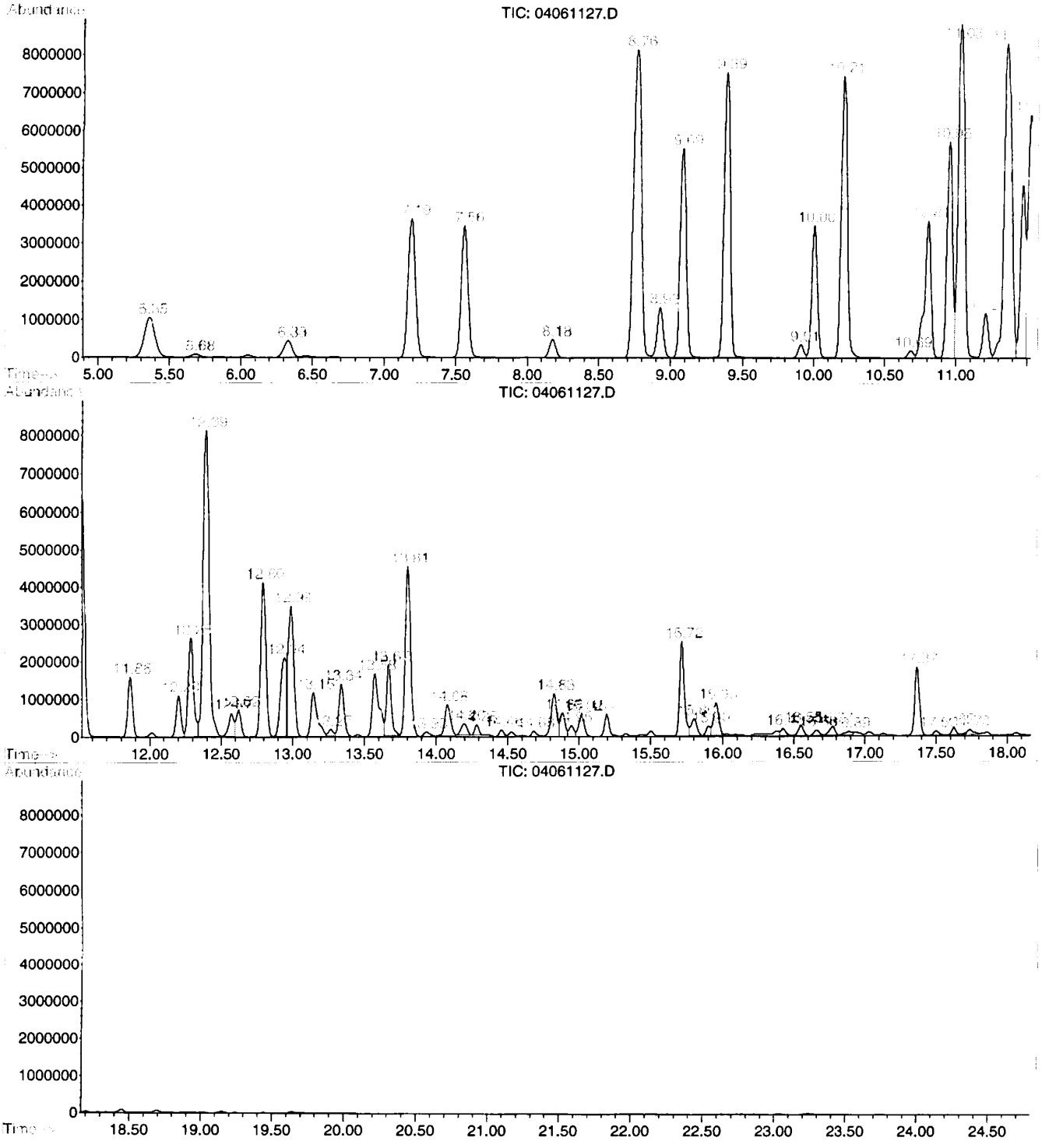
44	14.883	1907	1911	1918	rVV	622310	1464615	4.64%	0.377%
45	14.946	1918	1923	1929	rVV2	290903	722870	2.29%	0.186%
46	15.019	1929	1937	1952	rVB2	589673	1579252	5.00%	0.407%
47	15.197	1958	1971	1988	rBV2	606099	1510991	4.78%	0.389%
48	15.720	2059	2071	2081	rBV	2506932	6069636	19.21%	1.563%
49	15.803	2081	2087	2098	rVB2	446235	1191598	3.77%	0.307%
50	15.903	2098	2106	2109	rBV2	250929	533219	1.69%	0.137%
51	15.955	2109	2116	2127	rVB	849023	2122573	6.72%	0.547%
52	16.426	2201	2206	2217	rVB	182815	431594	1.37%	0.111%
53	16.551	2219	2230	2241	rVB	264963	689695	2.18%	0.178%
54	16.656	2241	2250	2260	rBV4	149101	421622	1.33%	0.109%
55	16.771	2260	2272	2281	rVB4	237290	704943	2.23%	0.182%
56	16.891	2281	2295	2300	rBV7	100927	351166	1.11%	0.090%
57	17.367	2374	2386	2400	rVB	1815695	4183066	13.24%	1.077%
58	17.503	2400	2412	2426	rBV2	125398	349165	1.11%	0.090%
59	17.623	2427	2435	2442	rBV2	195266	410195	1.30%	0.106%
60	17.733	2443	2456	2469	rBV2	128006	434699	1.38%	0.112%

Sum of corrected areas: 388386985

04061127.D 031611V1.M Thu Apr 14 13:24:12 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040611\04061127.D
Operator : Michael Truchan/Rachel Hill
Acquired : 7 Apr 2011 9:32 am using AcqMethod 031611V1
Instrument : GC/MS Ins
Sample Name: 1103609-010A
Misc Info : SAMP EPA_TO15-UG/M3
Vial Number: 18
Quant File :031611V1.RES (RTE Integrator)



04061127.D 031611V1.M Thu Apr 14 13:24:12 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.35	6.16 ppbv	5726300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	14.19 ppbv	13196900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	87
2	Butane, 2-methyl-	72	C5H12	000078-78-4	80
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	36
5	1-Butene $$ .alpha.-Butene $$ .alph	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	12.34 ppbv	11474600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- $$ Isohexan Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	33.13 ppbv	30808500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	74
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	47

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	17.92 ppbv	16663600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	45
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	43

****

Peak Number 6 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	10.18 ppbv	9463990	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	24.09 ppbv	22402200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclobutane	56	C4H8	000287-23-0	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	50

****

Peak Number 8 Pentane, 2,3-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	17.02 ppbv	15829600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 9 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	109.42 ppbv	31590600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
2	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	64

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	8.86 ppbv	2558420	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	47

****

Peak Number 11 Hexane, 2,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	24.01 ppbv	6933460	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
3	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	45
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	38
5	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38

****

Peak Number 12 Cyclohexane, methyl- $$ Cycloh Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	83.96 ppbv	24241100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	36.64 ppbv	10579600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
4	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

****

Peak Number 14 Heptane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	20.75 ppbv	5989860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	52
3	Heptane, 4-methyl-	114	C8H18	000589-53-7	50
4	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	49
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

****

Peak Number 15 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	31.24 ppbv	9020160	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	42
4	Pentane, 3-ethyl-	100	C7H16	000617-78-7	40
5	1-Butanol, 2,2-dimethyl-	102	C6H14O	001185-33-7	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	12.94 ppbv	3736020	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	72
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Pentane, 2,2-dimethyl- $$ 2,2-Dimet	100	C7H16	000590-35-2	53

****

Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	11.91 ppbv	3437250	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	19.27 ppbv	5563120	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

Data File : C:\HPCHEM\1\DATA\040611\04061127.D Vial: 18
Acq On : 7 Apr 2011 9:32 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-UG/M3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane $$ n-Octane $$ n-C8H18 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	14.78 ppbv	4266150	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	6.44 ppbv	3128110	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 7 Apr 2011 9:32 am
Data File: C:\HPCHEM\1\DATA\040611\04061127.D
Name: 1103609-010A
Misc: SAMP EPA_TO15-UG/M3
Method: C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.35	6.2	ppbv	5726300	ISTD01	10.76	11623000	12.5
Butane, 2-methyl-	7.19	14.2	ppbv	13196900	ISTD01	10.76	11623000	12.5
Pentane	7.56	12.3	ppbv	11474600	ISTD01	10.76	11623000	12.5
Pentane, 2-methyl- $	8.76	33.1	ppbv	30808500	ISTD01	10.76	11623000	12.5
Pentane, 3-methyl-	9.09	17.9	ppbv	16663600	ISTD01	10.76	11623000	12.5
Pentane, 2,4-dimethy	10.00	10.2	ppbv	9463990	ISTD01	10.76	11623000	12.5
Cyclopentane, methyl	10.21	24.1	ppbv	22402200	ISTD01	10.76	11623000	12.5
Pentane, 2,3-dimethy	10.96	17.0	ppbv	15829600	ISTD01	10.76	11623000	12.5
Hexane, 2,2-dimethyl	11.36	109.4	ppbv	31590600	ISTD02	11.86	3608960	12.5
Hexane, 2,5-dimethyl	12.20	8.9	ppbv	2558420	ISTD02	11.86	3608960	12.5
Hexane, 2,4-dimethyl	12.28	24.0	ppbv	6933460	ISTD02	11.86	3608960	12.5
Cyclohexane, methyl-	12.39	84.0	ppbv	24241100	ISTD02	11.86	3608960	12.5
Pentane, 2,3,4-trime	12.80	36.6	ppbv	10579600	ISTD02	11.86	3608960	12.5
Heptane, 2-methyl-	12.94	20.7	ppbv	5989860	ISTD02	11.86	3608960	12.5
Decane, 3,3,4-trimet	12.99	31.2	ppbv	9020160	ISTD02	11.86	3608960	12.5
Heptane, 3-methyl-	13.15	12.9	ppbv	3736020	ISTD02	11.86	3608960	12.5
Hexane, 2,2,5-trimet	13.34	11.9	ppbv	3437250	ISTD02	11.86	3608960	12.5
Cyclohexane, 1,3-dim	13.58	19.3	ppbv	5563120	ISTD02	11.86	3608960	12.5
Octane $$ n-Octane $	13.67	14.8	ppbv	4266150	ISTD02	11.86	3608960	12.5
Cyclohexane, ethyl-	14.83	6.4	ppbv	3128110	ISTD03	15.72	6069640	12.5

04061127.D 031611V1.M Thu Apr 14 13:24:13 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061128.D Vial: 2
Acq On : 7 Apr 2011 10:15 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 10:40 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	470394	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	1736457	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1220964	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	765689	12.51	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.08%				
Target Compounds							Qvalue
2) Propylene	5.68	41	44278	1.26	ppbv		98
3) Dichlorodifluoromethane	5.75	85	115549	1.00	ppbv		98
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	89913	1.05	ppbv		96
5) Chloromethane	6.18	50	46125	1.15	ppbv	#	95
6) Vinyl chloride	6.38	62	50468	1.12	ppbv	#	97
7) 1,3-Butadiene	6.45	39	42011	1.18	ppbv		94
8) Bromomethane	7.02	94	43071	1.04	ppbv		99
9) Chloroethane	7.17	64	24163	1.00	ppbv	#	88
10) Trichlorofluoromethane	7.50	101	118574	1.07	ppbv		98
11) Ethanol	7.74	45	6632	0.85	ppbv	#	74
12) Freon113	8.17	101	86168	0.97	ppbv		98
13) 1,1-Dichloroethene	8.27	61	69856	1.07	ppbv		96
14) Acetone	8.36	43	56733	0.98	ppbv	#	94
15) Carbon disulfide	8.64	76	123368	1.06	ppbv	#	98
16) 2-Propanol	8.42	45	33271	0.80	ppbv	#	1
17) Methylene chloride	8.93	49	51987	1.10	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	98184	0.91	ppbv	#	1
19) trans-1,2-Dichloroethene	9.21	61	60269	0.98	ppbv		93
20) n-Hexane	9.39	57	508044	7.40	ppbv		95
21) 1,1-Dichloroethane	9.77	63	68538	0.91	ppbv		98
22) Vinyl acetate	9.70	43	57900	0.75	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	40130	0.93	ppbv		96
24) 2-Butanone	10.43	43	52779	0.88	ppbv		92
25) Ethyl acetate	10.37	43	58264	0.78	ppbv	#	100
26) Tetrahydrofuran	10.80	42	91677	2.34	ppbv	#	59
27) Chloroform	10.78	83	81626	1.00	ppbv	#	7
28) 1,1,1-Trichloroethane	11.03	97	82705	0.98	ppbv		98
29) Cyclohexane	11.04	56	495354	7.12	ppbv	#	82
30) Carbon tetrachloride	11.19	117	78707	0.93	ppbv		98
31) Benzene	11.47	78	290579	2.50	ppbv		96
32) 1,2-Dichloroethane	11.55	62	45048	0.96	ppbv	#	79
34) Heptane	11.52	43	290619	3.47	ppbv	#	92
35) Trichloroethene	12.20	130	55892	0.94	ppbv		98
36) 1,2-Dichloropropane	12.56	63	36431	0.87	ppbv		99
37) 1,4-Dioxane	12.64	88	10978	0.66	ppbv	#	88
38) Bromodichloromethane	12.84	83	73461	0.90	ppbv		94
39) cis-1,3-Dichloropropene	13.40	75	50946	0.79	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	12840	0.67	ppbv		93
41) Toluene	13.80	91	347524	2.66	ppbv		97
42) trans-1,3-Dichloropropene	14.11	75	39488	0.74	ppbv	#	89
43) 1,1,2-Trichloroethane	14.38	97	37805	0.89	ppbv		99
44) Tetrachloroethene	14.50	166	71515	0.99	ppbv		98
45) 2-Hexanone	14.58	43	19171	0.69	ppbv		93
46) Chlorodibromomethane	14.93	129	62008	0.87	ppbv		99
47) 1,2-Dibromoethane	15.16	107	53906	0.87	ppbv		98
49) Chlorobenzene	15.76	112	80846	0.94	ppbv	#	70
50) Ethylbenzene	15.80	91	150554	1.06	ppbv		94

(#) = qualifier out of range (m) = manual integration
04061128.D 031611V1.M Thu Apr 14 13:24:21 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040611\04061128.D Vial: 2
Acq On : 7 Apr 2011 10:15 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 10:40 2011 Quant Results File: 031611V1.RES

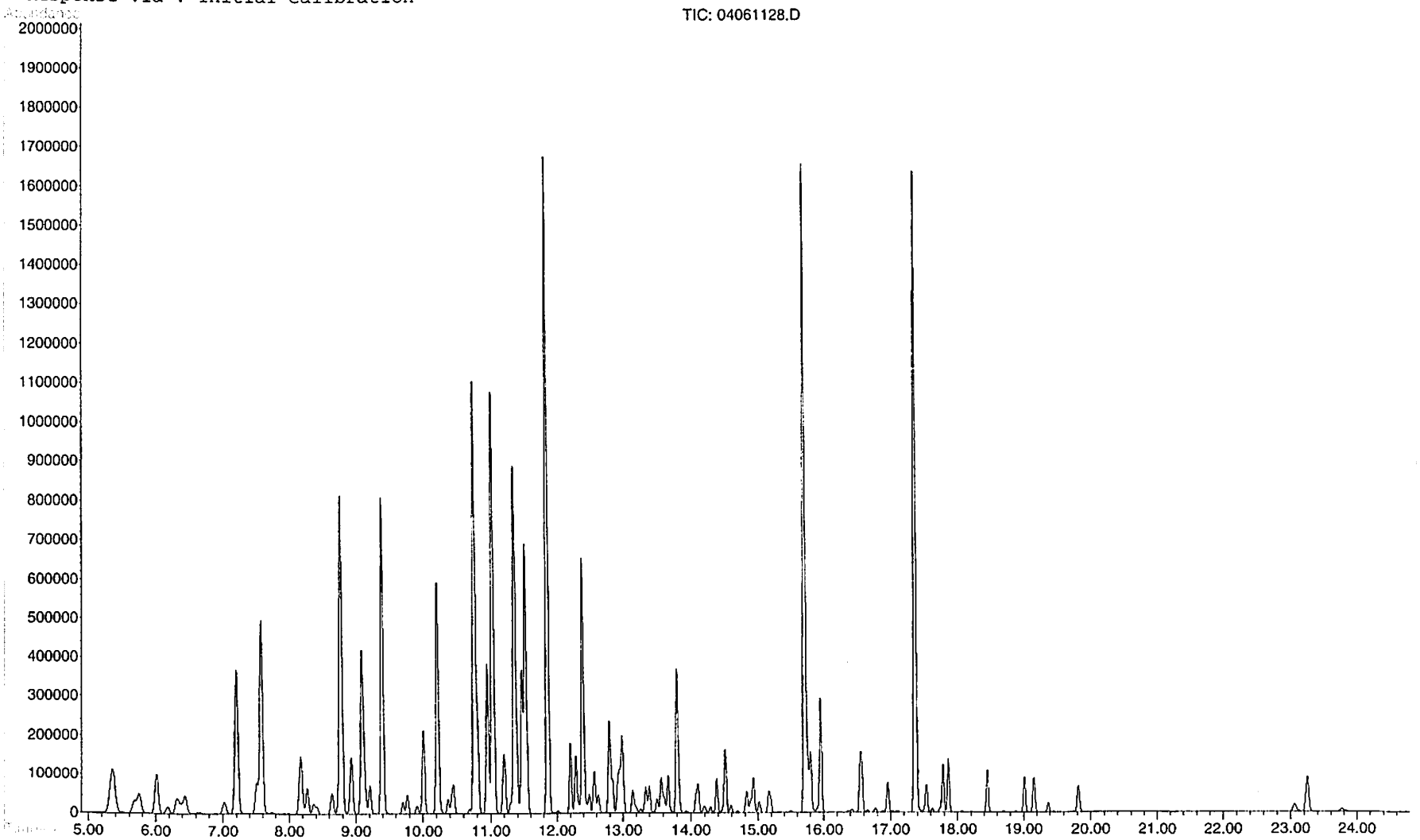
Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	236947	2.16	ppbv		93
52)	o-Xylene	16.55	91	110657	1.03	ppbv		97
53)	Styrene	16.58	104	66740	0.91	ppbv		97
54)	Bromoform	16.96	173	53444	0.87	ppbv		98
56)	1,1,2,2-Tetrachloroethane	17.53	83	49860	0.82	ppbv		98
57)	4-Ethyltoluene	17.78	105	125599	0.98	ppbv		96
58)	1,3,5-Trimethylbenzene	17.86	105	102278	0.97	ppbv		93
59)	1,2,4-Trimethylbenzene	18.45	105	91249	0.97	ppbv		97
60)	1,3-Dichlorobenzene	19.01	146	60908	0.93	ppbv		97
61)	1,4-Dichlorobenzene	19.16	146	58703	0.94	ppbv		99
62)	Benzyl chloride	19.37	91	31257	0.76	ppbv	#	96
63)	1,2-Dichlorobenzene	19.82	146	51403	0.91	ppbv		96
64)	1,2,4-Trichlorobenzene	23.05	180	22043	0.68	ppbv	#	61
65)	Hexachlorobutadiene	23.24	225	48029	0.85	ppbv		96
66)	Naphthalene	23.76	128	25347	0.65	ppbv	#	78

(#) = qualifier out of range (m) = manual integration
04061128.D 031611V1.M Thu Apr 14 13:24:21 2011 Page 2

Data File : C:\HPCHEM\1\DATA\040611\04061128.D Vial: 2
Acq On : 7 Apr 2011 10:15 am Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 40cc voa031111a Inst : GC/MS Ins
Misc : RLVS EPA_TO15-UG/M3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 10:40 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



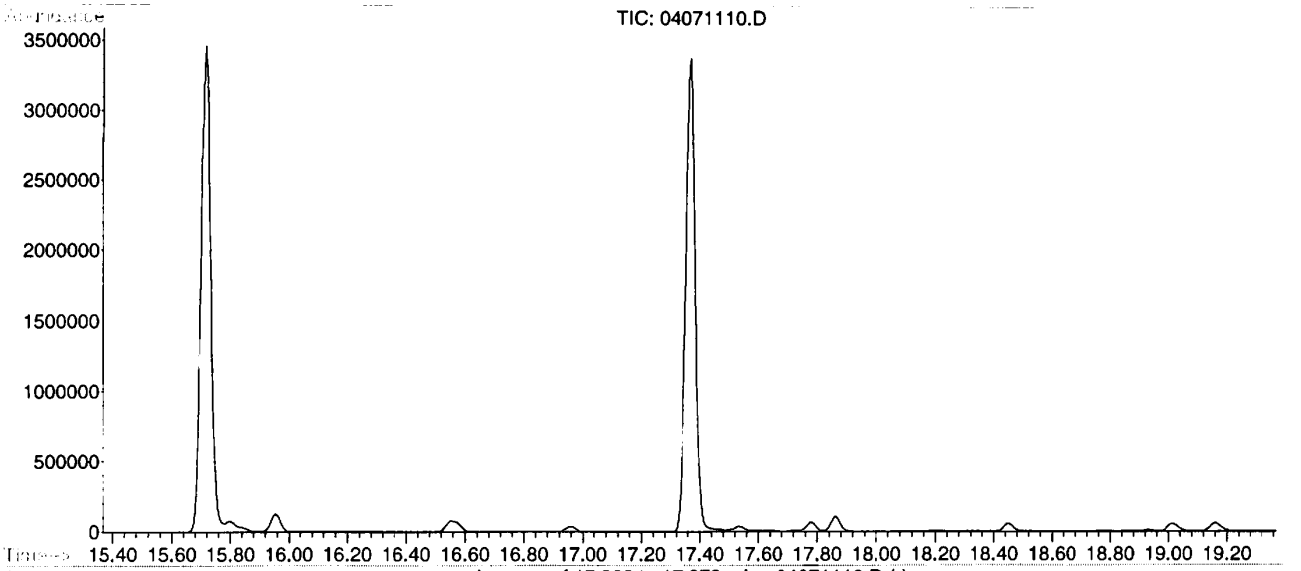
Injection Log

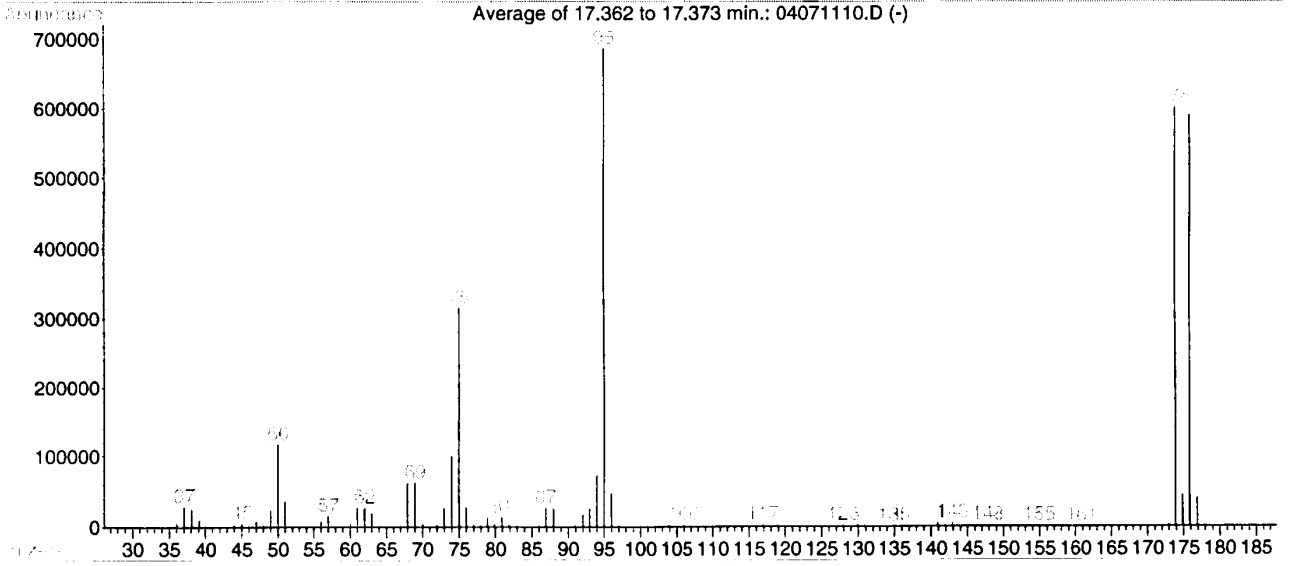
Directory: C:\HPCHEM\1\DATA\040711

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04071101.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	7 Apr 2011 11:47
2	2	04071102.d	1.	TO15 L2 40cc voa092310d	ICAL EPA_TO15	7 Apr 2011 14:20
3	3	04071103.d	1.	TO15 L3 20cc voa101910d	ICAL EPA_TO15	7 Apr 2011 15:01
4	4	04071104.d	1.	TO15 L4 40cc voa101910d	ICAL EPA_TO15	7 Apr 2011 15:42
5	5	04071105.d	1.	TO15 L5 48cc voa101910d	ICAL EPA_TO15	7 Apr 2011 16:23
6	6	04071106.d	1.	TO15 L6 60cc voa101910d	ICAL EPA_TO15	7 Apr 2011 17:04
7	7	04071107.d	1.	TO15 L7 80cc voa101910d	ICAL EPA_TO15	7 Apr 2011 17:45
8	8	04071108.d	1.	TO15 L8 120cc voa101910d	ICAL EPA_TO15-ug/m3	7 Apr 2011 18:26
9	9	04071109.d	1.	TO15 L9 200cc voa101910d	ICAL EPA_TO15-ug/m3	7 Apr 2011 19:07
10	9	04071110.d	1.	BFB 50cc voa020211c	TUNE BFB_TUNE	7 Apr 2011 19:47
11	10	04071111.d	1.	TO15 CCV 40cc voa010711a	CCV EPA_TO15-ug/m3	7 Apr 2011 20:27
12	11	04071112.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15-ug/m3	7 Apr 2011 21:07
13	12	04071113.d	1.	MBLK 040711	MBLK EPA_TO15-ug/m3	7 Apr 2011 21:50
14	13	04071114.d	8000.	1103609-011A	SAMP EPA_TO15-ug/m3	7 Apr 2011 22:30
15	14	04071115.d	8000.	1103609-011ADUP	DUP EPA_TO15-ug/m3	7 Apr 2011 23:10
16	15	04071116.d	8000.	1103609-012A	SAMP EPA_TO15-ug/m3	7 Apr 2011 23:49
17	16	04071117.d	8000.	1103609-013A	SAMP EPA_TO15-ug/m3	8 Apr 2011 00:29
18	17	04071118.d	8000.	1103609-014A	SAMP EPA_TO15-ug/m3	8 Apr 2011 01:09
19	18	04071119.d	8000.	1103609-015A	SAMP EPA_TO15-ug/m3	8 Apr 2011 01:50
20	19	04071120.d	8000.	1103609-016A	SAMP EPA_TO15-ug/m3	8 Apr 2011 02:30
21	20	04071121.d	8000.	1103609-018A	SAMP EPA_TO15-ug/m3	8 Apr 2011 03:10
22	21	04071122.d	8000.	1103609-019A	SAMP EPA_TO15-ug/m3	8 Apr 2011 03:50
23	22	04071123.d	8000.	1103609-020A	SAMP EPA_TO15-ug/m3	8 Apr 2011 04:30
24	23	04071124.d	8000.	1103609-021A	SAMP EPA_TO15-ug/m3	8 Apr 2011 05:11
25	24	04071125.d	8000.	1103609-022A	SAMP EPA_TO15-ug/m3	8 Apr 2011 05:51
26	25	04071126.d	8000.	1103609-023A -> data not used which 4/15/11	SAMP EPA_TO15-ug/m3	8 Apr 2011 06:32
27	26	04071127.d	8000.	1103609-024A ->	SAMP EPA_TO15-ug/m3	8 Apr 2011 07:12
28	27	04071128.d	8000.	1103609-025A	SAMP EPA_TO15-ug/m3	8 Apr 2011 09:28
29	28	04071129.d	8000.	1103609-026A	SAMP EPA_TO15-ug/m3	8 Apr 2011 10:08
30	29	04071130.d	8000.	1103609-027A	SAMP EPA_TO15-ug/m3	8 Apr 2011 10:49
31	30	04071131.d	1.	CLEANING BLANK	SAMP EPA_TO15-ug/m3	8 Apr 2011 11:32
32	31	04071132.d	1.	1103609-028A -> data not used which 4/15/11	SAMP EPA_TO15-ug/m3	8 Apr 2011 12:15
33	32	04071133.d	40.	1103609-002A ->	SAMP EPA_TO15-ug/m3	8 Apr 2011 12:55
34	33	04071134.d	4000.	1103609-023A	SAMP EPA_TO15-ug/m3	8 Apr 2011 13:36
35	34	04071135.d	40.	1103609-002A	SAMP EPA_TO15-ug/m3	8 Apr 2011 14:17
36	34	04071136.d	4000.	1103609-024A - data not used which 4/15/11	SAMP EPA_TO15-ug/m3	8 Apr 2011 14:58
37	11	04071137.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15-ug/m3	8 Apr 2011 15:39

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040711\04071110.D Vial: 9
Acq On : 7 Apr 2011 7:47 pm Operator: Michael Truchan/Rachel Hill
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : TUNE BFB_TUNE Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv





Spectrum Information: Average of 17.362 to 17.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.1	117707	PASS
75	95	30	60	45.9	315051	PASS
95	95	100	100	100.0	687083	PASS
96	95	5	9	6.8	46939	PASS
173	174	0.00	2	0.4	2632	PASS
174	95	50	120	87.5	601323	PASS
175	174	4	9	7.3	43875	PASS
176	174	93	101	98.3	590869	PASS
177	176	5	9	6.8	39923	PASS

04071110.D 040711V1.M Thu Apr 14 15:57:24 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040711\04071111.D Vial: 10
Acq On : 7 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2	T	Propylene	0.966	1.015	-5.1	108	0.00
3	T	Dichlorodifluoromethane	3.139	3.266	-4.0	106	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.263	2.305	-1.9	103	0.00
5	T	Chloromethane	1.136	1.412	-24.3	126	0.00
6	T	Vinyl chloride	1.239	1.303	-5.2	104	0.00
7	T	1,3-Butadiene	0.911	0.987	-8.3	105	0.00
8	T	Bromomethane	1.139	0.672	41.0#	60	0.00
9	T	Chloroethane	0.659	0.539	18.2	83	0.00
10	T	Trichlorofluoromethane	2.945	2.880	2.2	97	0.00
11	T	Ethanol	0.211	0.302	-43.1#	187#	0.00
12	T	Freon113	2.344	2.337	0.3	98	0.00
13	T	1,1-Dichloroethene	1.739	1.535	11.7	88	0.00
14	T	Acetone	1.424	1.613	-13.3	134	0.00
15	T	Carbon disulfide	3.103	2.853	8.1	92	0.00
16	T	2-Propanol	1.095	1.386	-26.6	154#	0.00
17	T	Methylene chloride	1.266	1.201	5.1	97	0.00
18	T	tert-Butyl Methyl Ether	2.545	2.922	-14.8	132	0.00
19	T	trans-1,2-Dichloroethene	1.639	1.652	-0.8	103	0.00
20	T	n-Hexane	1.760	1.708	3.0	101	0.00
21	T	1,1-Dichloroethane	1.963	2.183	-11.2	118	0.00
22	T	Vinyl acetate	1.832	1.872	-2.2	116	0.00
23	T	cis-1,2-Dichloroethene	1.130	1.236	-9.4	117	0.00
24	T	2-Butanone	1.507	1.809	-20.0	143	0.00
25	T	Ethyl acetate	1.865	2.198	-17.9	133	0.00
26	T	Tetrahydrofuran	1.010	1.235	-22.3	139	0.00
27	T	Chloroform	2.137	2.298	-7.5	111	0.00
28	T	1,1,1-Trichloroethane	2.203	2.372	-7.7	110	0.00
29	T	Cyclohexane	1.764	1.863	-5.6	106	0.00
30	T	Carbon tetrachloride	2.197	2.455	-11.7	116	0.00
31	T	Benzene	2.805	3.326	-18.6	132	0.00
32	T	1,2-Dichloroethane	1.201	1.350	-12.4	123	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
34	T	Heptane	0.570	0.626	-9.8	111	0.00
35	T	Trichloroethene	0.407	0.774	-90.2#	199#	0.00
36	T	1,2-Dichloropropane	0.290	0.324	-11.7	124	0.00
37	T	1,4-Dioxane	0.125	0.133	-6.4	130	0.00
38	T	Bromodichloromethane	0.574	0.657	-14.5	121	0.00
39	T	cis-1,3-Dichloropropene	0.449	0.488	-8.7	118	0.00
40	T	4-Methyl-2-pentanone	0.137	0.186	-35.8#	165#	0.00
41	T	Toluene	0.864	1.029	-19.1	129	0.00
42	T	trans-1,3-Dichloropropene	0.375	0.387	-3.2	113	0.00
43	T	1,1,2-Trichloroethane	0.302	0.312	-3.3	114	0.00
44	T	Tetrachloroethene	0.504	0.559	-10.9	113	0.00
45	T	2-Hexanone	0.227	0.357	-57.3#	186#	0.00
46	T	Chlorodibromomethane	0.501	0.541	-8.0	116	0.00
47	T	1,2-Dibromoethane	0.437	0.399	8.7	99	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
49	T	Chlorobenzene	0.831	0.877	-5.5	112	0.00
50	T	Ethylbenzene	1.304	1.548	-18.7	123	0.00
51	T	m,p-Xylene	0.997	1.138	-14.1	113	0.00
52	T	o-Xylene	1.001	1.141	-14.0	118	0.00
53	T	Styrene	0.733	0.847	-15.6	122	0.00

(#) = Out of Range
04071111.D 040711V1.M Thu Apr 14 15:58:08 2011 Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040711\04071111.D Vial: 10
Acq On : 7 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.606	0.644	-6.3	110	0.00
55	S	4-Bromofluorobenzene	0.628	0.626	0.3	100	0.00
56	T	1,1,2,2-Tetrachloroethane	0.611	0.110	82.0#	19#	0.00
57	T	4-Ethyltoluene	1.226	1.246	-1.6	106	0.00
58	T	1,3,5-Trimethylbenzene	1.006	1.059	-5.3	110	0.00
59	T	1,2,4-Trimethylbenzene	0.954	0.948	0.6	105	0.00
60	T	1,3-Dichlorobenzene	0.667	0.674	-1.0	107	0.00
61	T	1,4-Dichlorobenzene	0.645	0.652	-1.1	106	0.00
62	T	Benzyl chloride	0.411	0.137	66.7#	38#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.580	0.0	107	0.00
64	T	1,2,4-Trichlorobenzene	0.405	0.353	12.8	101	0.00
65	T	Hexachlorobutadiene	0.548	0.491	10.4	99	0.00
66		Naphthalene	0.511	0.439	14.1	104	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071111.D Vial: 10
Acq On : 7 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	1022375	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3533248	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2508678	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.36	95	1570365	12.46	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.68%				
Target Compounds							Qvalue
2) Propylene	5.68	41	847021	10.72	ppbv		100
3) Dichlorodifluoromethane	5.75	85	2457821	9.57	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	1790871	9.68	ppbv		94
5) Chloromethane	6.17	50	1097512	11.81	ppbv		99
6) Vinyl chloride	6.39	62	1001840	9.88	ppbv		100
7) 1,3-Butadiene	6.44	39	791163	10.62	ppbv		98
8) Bromomethane	7.02	94	511454	5.49	ppbv		99
9) Chloroethane	7.18	64	405854	7.53	ppbv		98
10) Trichlorofluoromethane	7.51	101	2261180	9.39	ppbv		99
11) Ethanol	7.73	45	227327	13.20	ppbv		99
12) Freon113	8.16	101	1873546	9.77	ppbv		96
13) 1,1-Dichloroethene	8.27	61	1242976	8.74	ppbv		95
14) Acetone	8.35	43	1319027	11.32	ppbv		98
15) Carbon disulfide	8.64	76	2263784	8.92	ppbv	#	100
16) 2-Propanol	8.40	45	1145273	12.79	ppbv		91
17) Methylene chloride	8.92	49	982503	9.49	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	2365929	11.37	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1324100	9.88	ppbv		95
20) n-Hexane	9.39	57	1411344	9.80	ppbv		98
21) 1,1-Dichloroethane	9.77	63	1732215	10.79	ppbv		99
22) Vinyl acetate	9.70	43	1515586	10.12	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	990805	10.72	ppbv		95
24) 2-Butanone	10.42	43	1464515	11.88	ppbv		95
25) Ethyl acetate	10.37	43	1761834	11.55	ppbv	#	100
26) Tetrahydrofuran	10.76	42	1010235	12.23	ppbv		97
27) Chloroform	10.77	83	1842343	10.54	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1862568	10.34	ppbv		99
29) Cyclohexane	11.04	56	1493350	10.35	ppbv		97
30) Carbon tetrachloride	11.19	117	1907504	10.62	ppbv		100
31) Benzene	11.47	78	2611255	11.38	ppbv		98
32) 1,2-Dichloroethane	11.55	62	1071207	10.91	ppbv		99
34) Heptane	11.52	43	1752578	10.88	ppbv		97
35) Trichloroethene	12.20	130	2099757	18.23	ppbv		97
36) 1,2-Dichloropropane	12.56	63	898876	10.95	ppbv		99
37) 1,4-Dioxane	12.63	88	359860	10.18	ppbv		97
38) Bromodichloromethane	12.84	83	1782550	10.98	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1309357	10.32	ppbv		98
40) 4-Methyl-2-pentanone	13.50	58	526524	13.64	ppbv		98
41) Toluene	13.80	91	2849739	11.67	ppbv		100
42) trans-1,3-Dichloropropene	14.10	75	995073	9.40	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	863004	10.12	ppbv		98
44) Tetrachloroethene	14.50	166	1515717	10.64	ppbv		100
45) 2-Hexanone	14.58	43	989841	15.46	ppbv		99
46) Chlorodibromomethane	14.93	129	1498796	10.57	ppbv		99
47) 1,2-Dibromoethane	15.16	107	1082001	8.76	ppbv		99
49) Chlorobenzene	15.76	112	1743157	10.45	ppbv		94
50) Ethylbenzene	15.80	91	3044243	11.63	ppbv		97

(#) = qualifier out of range (m) = manual integration
04071111.D 040711V1.M Thu Apr 14 15:58:03 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071111.D Vial: 10
Acq On : 7 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

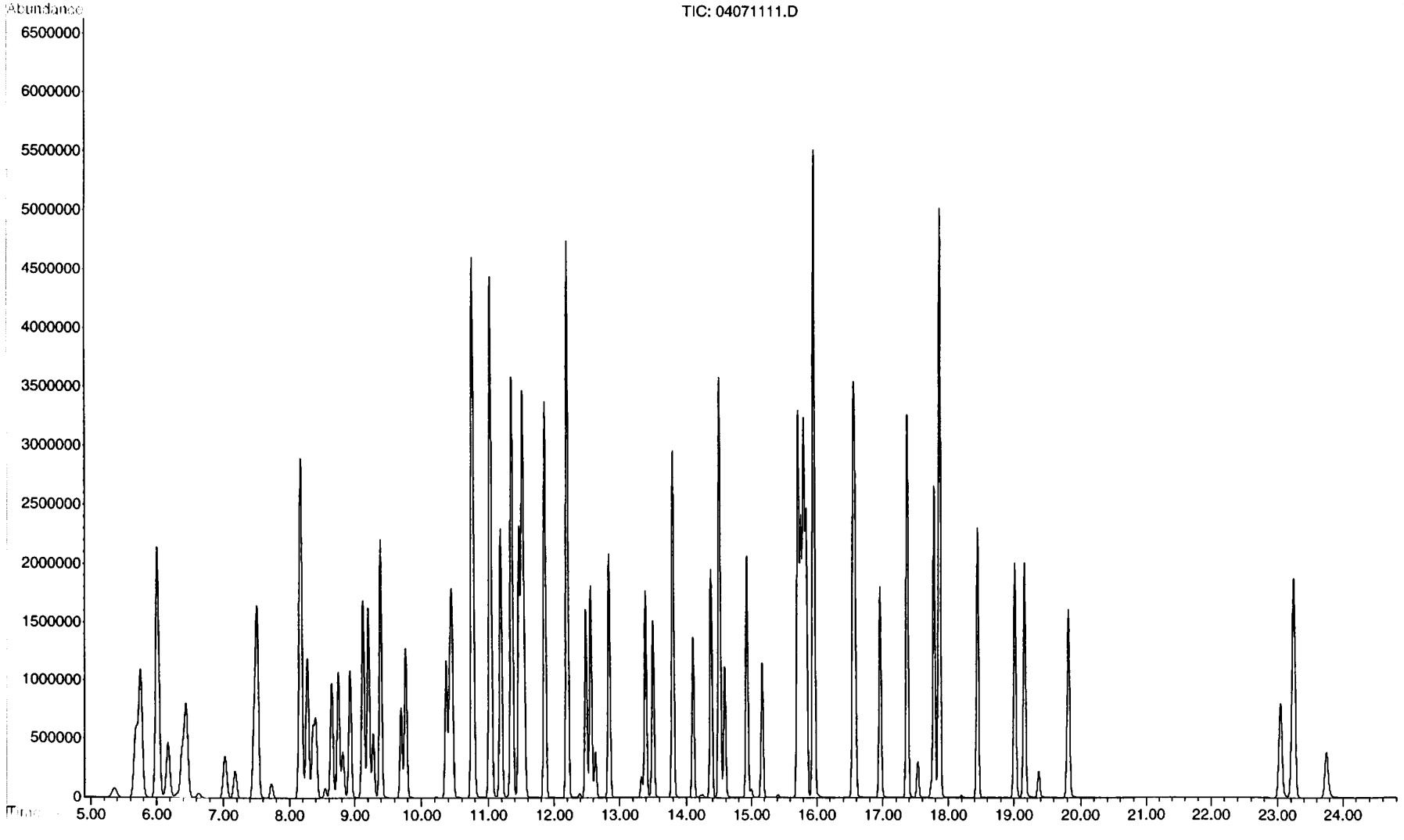
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	4385335	21.92	ppbv		97
52)	o-Xylene	16.55	91	2289628	11.39	ppbv		96
53)	Styrene	16.57	104	1666158	11.32	ppbv		98
54)	Bromoform	16.96	173	1241509	10.20	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	220095	1.79	ppbv		99
57)	4-Ethyltoluene	17.78	105	2451162	9.96	ppbv		98
58)	1,3,5-Trimethylbenzene	17.86	105	2060877	10.21	ppbv	#	56
59)	1,2,4-Trimethylbenzene	18.45	105	1864688	9.74	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	1312109	9.80	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	1255705	9.70	ppbv		99
62)	Benzyl chloride	19.37	91	266770	3.23	ppbv		99
63)	1,2-Dichlorobenzene	19.81	146	1129175	9.70	ppbv		99
64)	1,2,4-Trichlorobenzene	23.03	180	644780	7.94	ppbv		98
65)	Hexachlorobutadiene	23.24	225	926090	8.43	ppbv		100
66)	Naphthalene	23.75	128	811084	7.91	ppbv		100

(#) = qualifier out of range (m) = manual integration
04071111.D 040711V1.M Thu Apr 14 15:58:03 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071111.D Vial: 10
Acq On : 7 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071112.D Vial: 11
Acq On : 7 Apr 2011 9:07 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	1000719	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3579079	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	2505782	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1531844	12.17	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.36%				
Target Compounds							Qvalue
2) Propylene	5.68	41	97756	1.26	ppbv		99
3) Dichlorodifluoromethane	5.76	85	288962	1.15	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	218545	1.21	ppbv		94
5) Chloromethane	6.17	50	110865	1.22	ppbv	#	96
6) Vinyl chloride	6.38	62	120474	1.21	ppbv	#	99
7) 1,3-Butadiene	6.44	39	95395	1.31	ppbv		96
8) Bromomethane	7.03	94	102332	1.12	ppbv		99
9) Chloroethane	7.17	64	58918	1.12	ppbv		99
10) Trichlorofluoromethane	7.51	101	291653	1.24	ppbv		99
11) Ethanol	7.73	45	26456	1.57	ppbv		99
12) Freon113	8.17	101	233830	1.25	ppbv		97
13) 1,1-Dichloroethene	8.27	61	176960	1.27	ppbv		95
14) Acetone	8.36	43	177085	1.55	ppbv		98
15) Carbon disulfide	8.64	76	306233	1.23	ppbv	#	99
16) 2-Propanol	8.40	45	120424	1.37	ppbv	#	1
17) Methylene chloride	8.93	49	134803	1.33	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	311546	1.53	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	163933	1.25	ppbv		95
20) n-Hexane	9.40	57	182584	1.30	ppbv		95
21) 1,1-Dichloroethane	9.77	63	203854	1.30	ppbv		98
22) Vinyl acetate	9.70	43	203742	1.39	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	114531	1.27	ppbv		94
24) 2-Butanone	10.42	43	181088	1.50	ppbv		94
25) Ethyl acetate	10.37	43	207023	1.39	ppbv	#	100
26) Tetrahydrofuran	10.76	42	112547	1.39	ppbv		95
27) Chloroform	10.77	83	229703	1.34	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	229559	1.30	ppbv		98
29) Cyclohexane	11.04	56	181246	1.28	ppbv		95
30) Carbon tetrachloride	11.19	117	226990	1.29	ppbv		98
31) Benzene	11.47	78	313250	1.39	ppbv		98
32) 1,2-Dichloroethane	11.55	62	139439	1.45	ppbv		97
34) Heptane	11.52	43	223296	1.37	ppbv		94
35) Trichloroethene	12.20	130	163463	1.40	ppbv		97
36) 1,2-Dichloropropane	12.56	63	114041	1.37	ppbv		99
37) 1,4-Dioxane	12.63	88	51084	1.43	ppbv		98
38) Bromodichloromethane	12.84	83	215947	1.31	ppbv		98
39) cis-1,3-Dichloropropene	13.39	75	164989	1.28	ppbv		99
40) 4-Methyl-2-pentanone	13.51	58	46848	1.20	ppbv		96
41) Toluene	13.80	91	357218	1.44	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	130023	1.21	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	117012	1.36	ppbv		98
44) Tetrachloroethene	14.50	166	198884	1.38	ppbv		98
45) 2-Hexanone	14.58	43	75606	1.17	ppbv		97
46) Chlorodibromomethane	14.92	129	187387	1.31	ppbv		99
47) 1,2-Dibromoethane	15.17	107	166742	1.33	ppbv		99
49) Chlorobenzene	15.76	112	241337	1.45	ppbv	#	90
50) Ethylbenzene	15.80	91	393984	1.51	ppbv		94

(#) = qualifier out of range (m) = manual integration
04071112.D 040711V1.M Thu Apr 14 15:58:15 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071112.D Vial: 11
Acq On : 7 Apr 2011 9:07 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

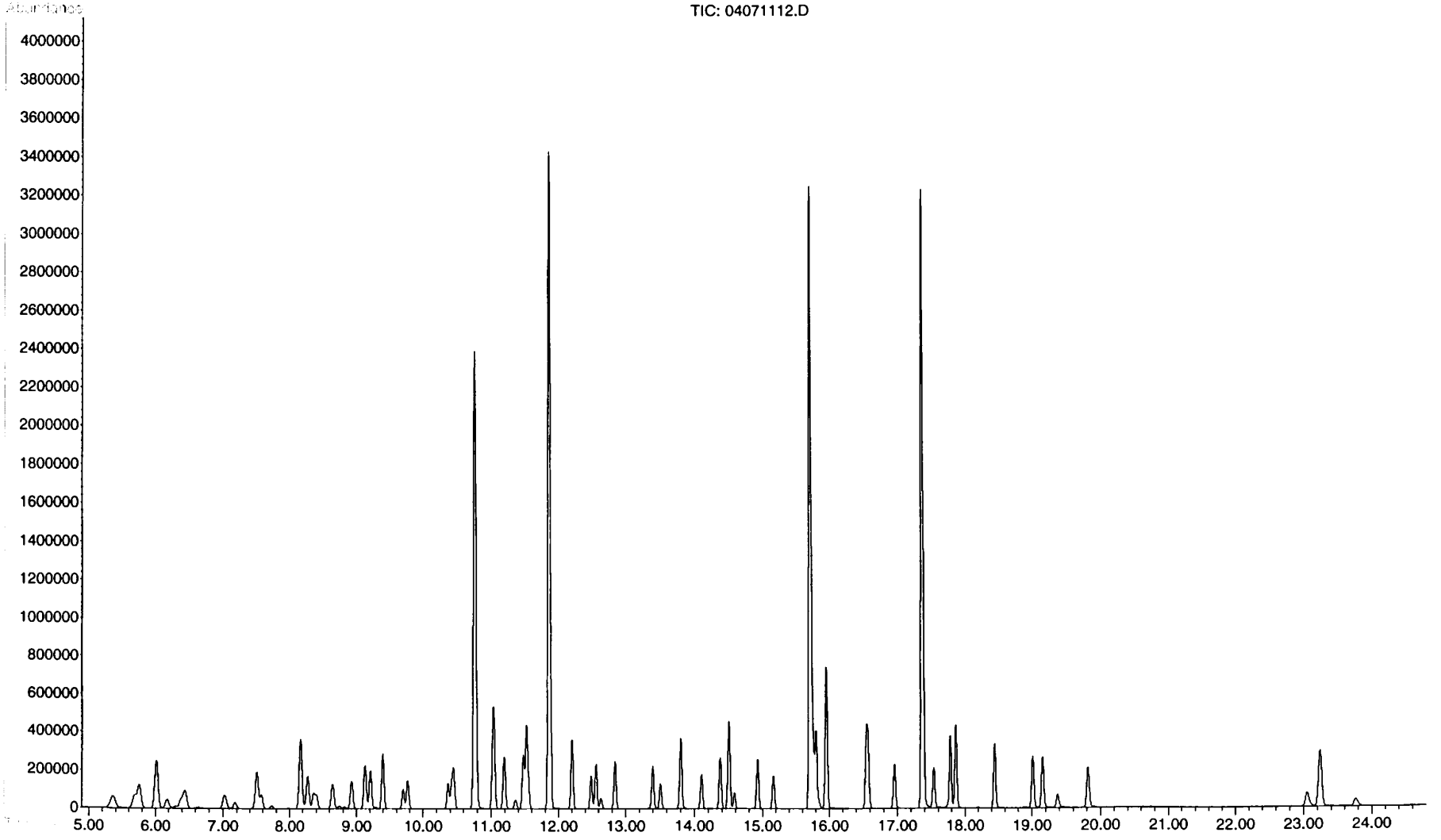
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	615972	3.08	ppbv		93
52) o-Xylene	16.55	91	301246	1.50	ppbv		97
53) Styrene	16.57	104	205131	1.40	ppbv		98
54) Bromoform	16.96	173	165418	1.36	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	153652	1.25	ppbv		97
57) 4-Ethyltoluene	17.78	105	362656	1.48	ppbv		98
58) 1,3,5-Trimethylbenzene	17.86	105	310832	1.54	ppbv		92
59) 1,2,4-Trimethylbenzene	18.44	105	281531	1.47	ppbv		98
60) 1,3-Dichlorobenzene	19.01	146	191056	1.43	ppbv		98
61) 1,4-Dichlorobenzene	19.16	146	178735	1.38	ppbv		99
62) Benzyl chloride	19.38	91	104860	1.27	ppbv		98
63) 1,2-Dichlorobenzene	19.82	146	168824	1.45	ppbv		97
64) 1,2,4-Trichlorobenzene	23.05	180	73386	0.91	ppbv		97
65) Hexachlorobutadiene	23.24	225	153583	1.40	ppbv		99
66) Naphthalene	23.77	128	110960	1.08	ppbv	#	92

(#) = qualifier out of range (m) = manual integration
04071112.D 040711V1.M Thu Apr 14 15:58:15 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071112.D Vial: 11
Acq On : 7 Apr 2011 9:07 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071113.D Vial: 12
Acq On : 7 Apr 2011 9:50 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK 040711 Inst : GC/MS Ins
Misc : MBLK EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	1015179	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	3638460	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.71	117	2512213	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1501091	11.90	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.20%			
Target Compounds						Qvalue
2) Propylene	5.68	41	26804	N.D.		
3) Dichlorodifluoromethane	5.76	85	66349	N.D.		
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	48803	N.D.		
5) Chloromethane	6.17	50	31839	N.D.		
6) Vinyl chloride	6.38	62	25245	N.D.		
7) 1,3-Butadiene	6.44	39	27099	N.D.		
8) Bromomethane	7.02	94	13904	N.D.		
9) Chloroethane	7.17	64	10945	N.D.		
10) Trichlorofluoromethane	7.50	101	65207	N.D.		
11) Ethanol	7.74	45	13081	N.D.		
12) Freon113	8.16	101	53951	N.D.		
13) 1,1-Dichloroethene	8.27	61	36937	N.D.		
14) Acetone	8.36	43	65133	N.D.		
15) Carbon disulfide	8.64	76	66196	N.D.		
16) 2-Propanol	8.40	45	46106	N.D.		
17) Methylene chloride	8.92	49	38986	N.D.		
18) tert-Butyl Methyl Ether	9.13	73	84834	N.D.		
19) trans-1,2-Dichloroethene	9.21	61	37853	N.D.		
20) n-Hexane	9.40	57	68999	N.D.		
21) 1,1-Dichloroethane	9.77	63	50372	N.D.		
22) Vinyl acetate	9.70	43	40289	N.D.		
23) cis-1,2-Dichloroethene	10.45	96	28272	N.D.		
24) 2-Butanone	10.42	43	57158	N.D.		
25) Ethyl acetate	10.37	43	54196	N.D.		
26) Tetrahydrofuran	10.76	42	41046	N.D.		
27) Chloroform	10.77	83	55288	N.D.		
28) 1,1,1-Trichloroethane	11.03	97	52576	N.D.		
29) Cyclohexane	11.03	56	73934	N.D.		
30) Carbon tetrachloride	11.19	117	51598	N.D.		
31) Benzene	11.47	78	110279	N.D.		
32) 1,2-Dichloroethane	11.55	62	34793	N.D.		
34) Heptane	11.52	43	72826	N.D.		
35) Trichloroethene	12.20	130	62225	N.D.		
36) 1,2-Dichloropropane	12.56	63	27291	N.D.		
37) 1,4-Dioxane	12.64	88	16684	N.D.		
38) Bromodichloromethane	12.84	83	49434	N.D.		
39) cis-1,3-Dichloropropene	13.40	75	34898	N.D.		
40) 4-Methyl-2-pentanone	13.50	58	13318	N.D.		
41) Toluene	13.80	91	137519	N.D.		
42) trans-1,3-Dichloropropene	14.11	75	25499	N.D.		
43) 1,1,2-Trichloroethane	14.37	97	26813	N.D.		
44) Tetrachloroethene	14.51	166	48356	N.D.		
45) 2-Hexanone	14.58	43	30012	N.D.		
46) Chlorodibromomethane	14.92	129	40619	N.D.		
47) 1,2-Dibromoethane	15.16	107	34158	N.D.		
49) Chlorobenzene	15.76	112	56545	N.D.		
50) Ethylbenzene	15.80	91	115876	N.D.		

(#) = qualifier out of range (m) = manual integration
04071113.D 040711V1.M Thu Apr 14 15:58:24 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071113.D Vial: 12
Acq On : 7 Apr 2011 9:50 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK 040711 Inst : GC/MS Ins
Misc : MBLK EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

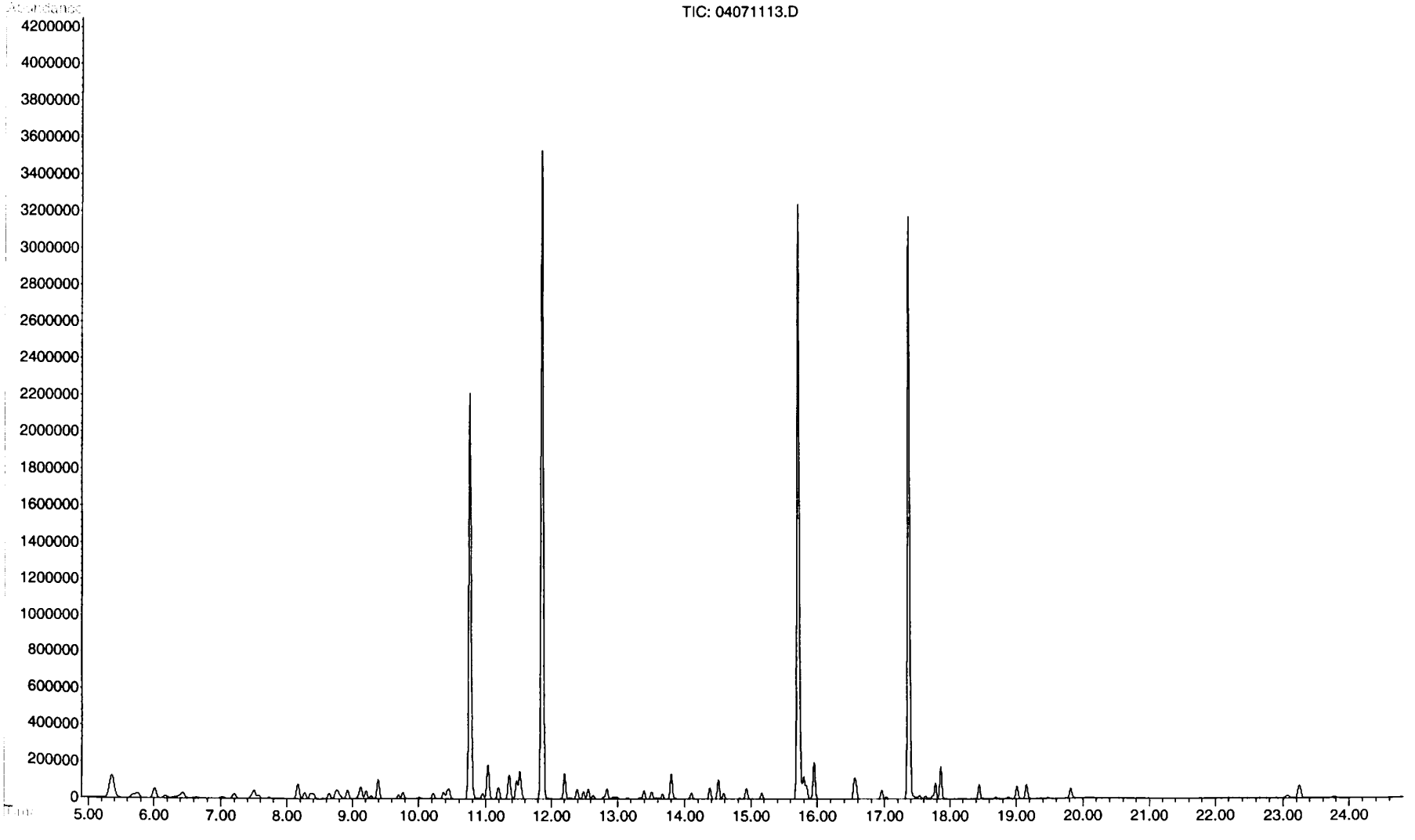
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51) m,p-Xylene	15.95	91	166919	N.D.	
52) o-Xylene	16.55	91	87365	N.D.	
53) Styrene	16.58	104	47675	N.D.	
54) Bromoform	16.95	173	36032	N.D.	
56) 1,1,2,2-Tetrachloroethane	17.53	83	12550	N.D.	
57) 4-Ethyltoluene	17.78	105	100321	N.D.	
58) 1,3,5-Trimethylbenzene	17.86	105	86098	N.D.	
59) 1,2,4-Trimethylbenzene	18.44	105	69895	N.D.	
60) 1,3-Dichlorobenzene	19.01	146	51984	N.D.	
61) 1,4-Dichlorobenzene	19.16	146	51424	N.D.	
62) Benzyl chloride	19.37	91	8424	N.D.	
63) 1,2-Dichlorobenzene	19.81	146	43644	N.D.	
64) 1,2,4-Trichlorobenzene	23.06	180	18547	N.D.	
65) Hexachlorobutadiene	23.24	225	39831	N.D.	
66) Naphthalene	23.78	128	31983	N.D.	

(#) = qualifier out of range (m) = manual integration
04071113.D 040711V1.M Thu Apr 14 15:58:25 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071113.D Vial: 12
Acq On : 7 Apr 2011 9:50 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK 040711 Inst : GC/MS Ins
Misc : MBLK EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:00 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:07 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

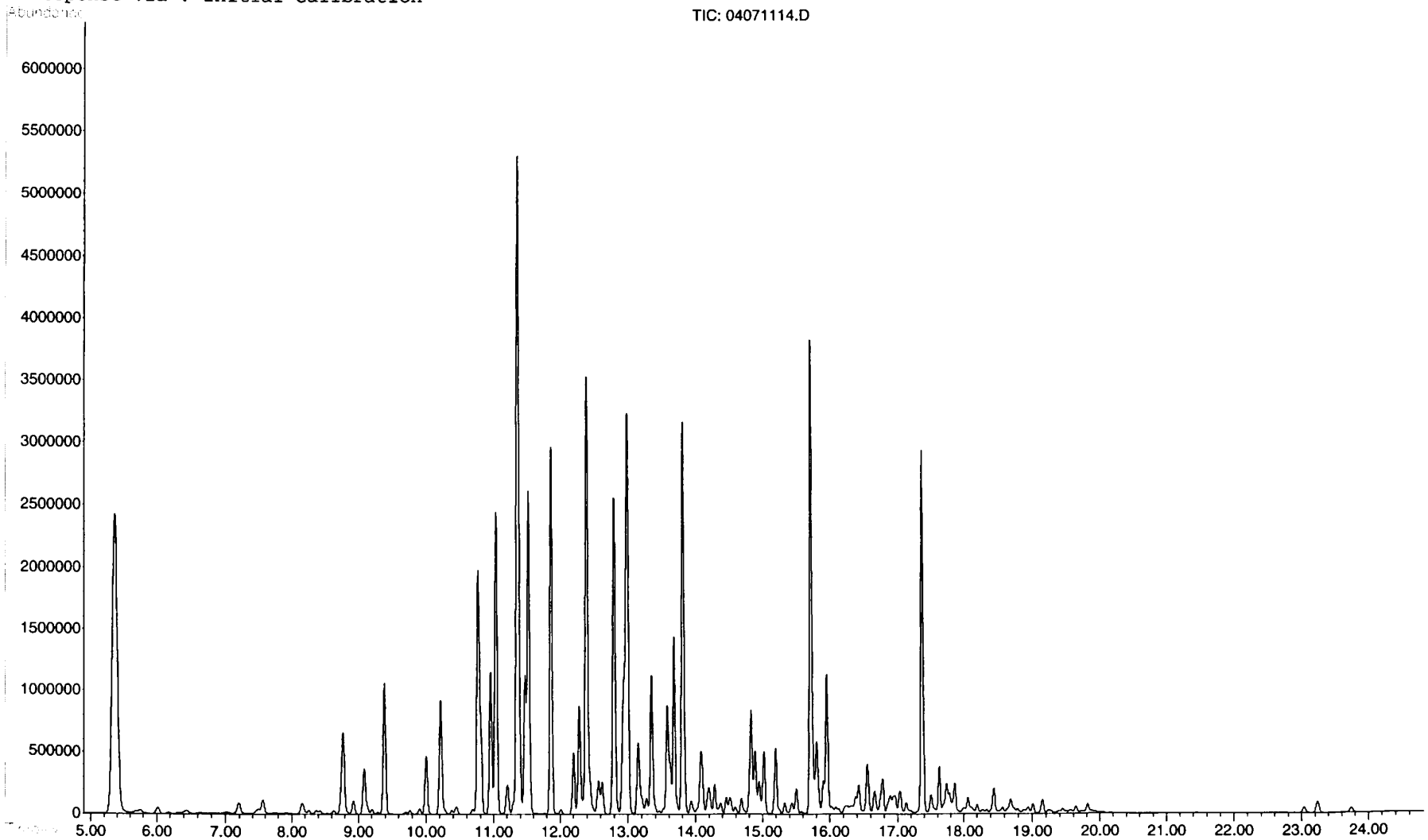
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	877657	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3027658	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2181448	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1359115	12.41	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.28%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	682348	5.52	ppbv		97
29) Cyclohexane	11.03	56	1112041	8.98	ppbv	#	79
31) Benzene	11.47	78	885176	4.49	ppbv		95
34) Heptane	11.52	43	1139532	8.26	ppbv	#	93
41) Toluene	13.80	91	2897034	13.84	ppbv		100
50) Ethylbenzene	15.80	91	464989	2.04	ppbv		95
51) m,p-Xylene	15.95	91	815187	4.69	ppbv		93
52) o-Xylene	16.55	91	292745	1.68	ppbv	#	89

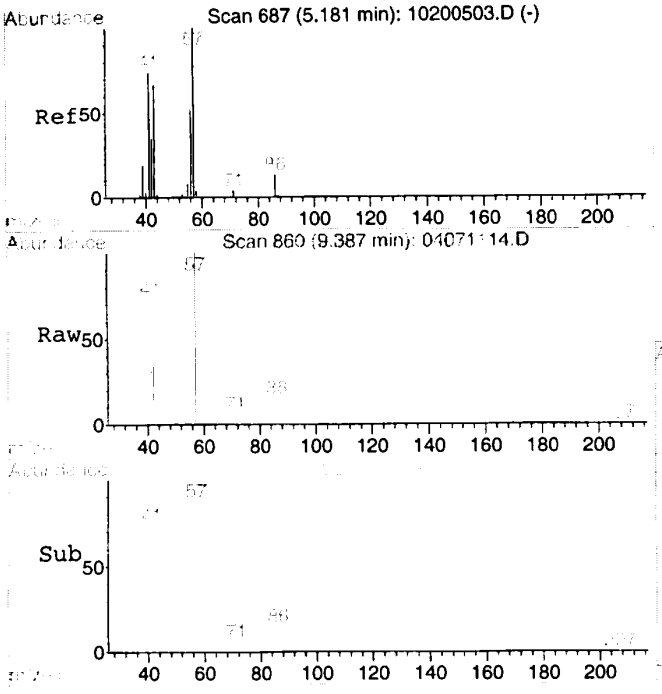
(#) = qualifier out of range (m) = manual integration
04071114.D 040711V1.M Thu Apr 14 15:59:19 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:07 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

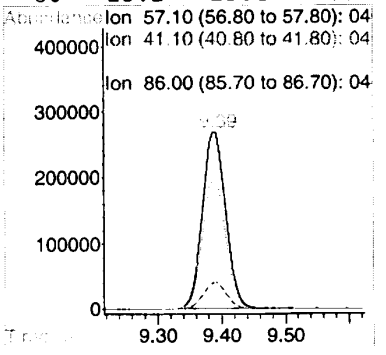


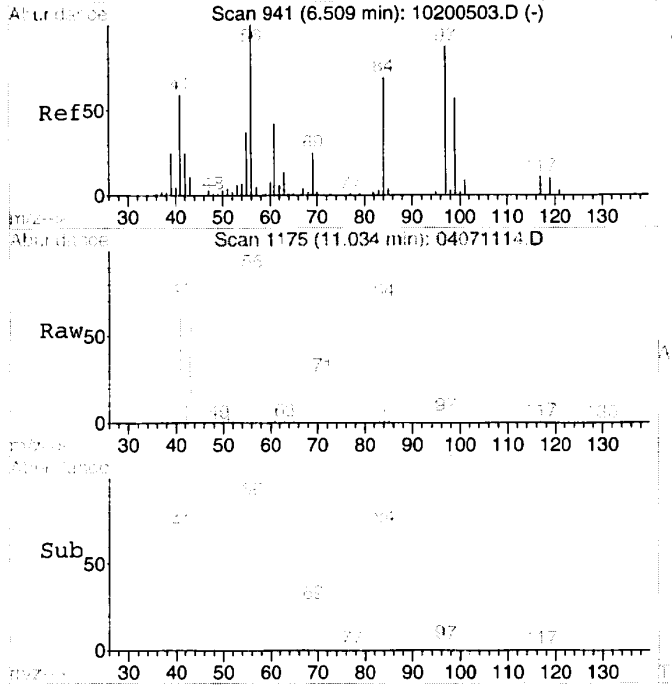


#20
n-Hexane
Concen: 5.52 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 57 Resp: 682348

Ion	Ratio	Lower	Upper
57	100		
41	74.5	57.2	85.8
53	2.4	1.8	2.8
86	15.2	13.4	20.0

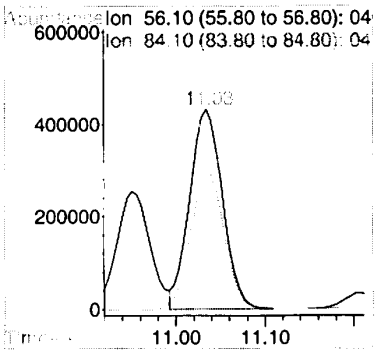


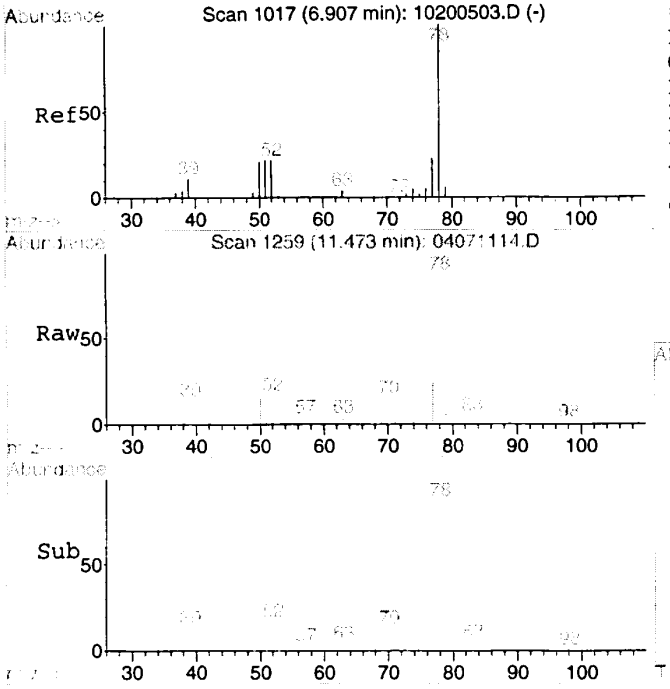


#29
Cyclohexane
Concen: 8.98 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 56 Resp: 1112041

Ion	Ratio	Lower	Upper
56	100		
84	71.1	72.4	108.6#
41	70.5	43.8	65.8#

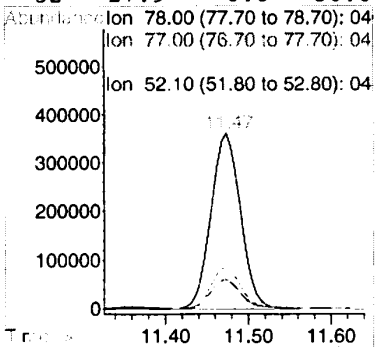


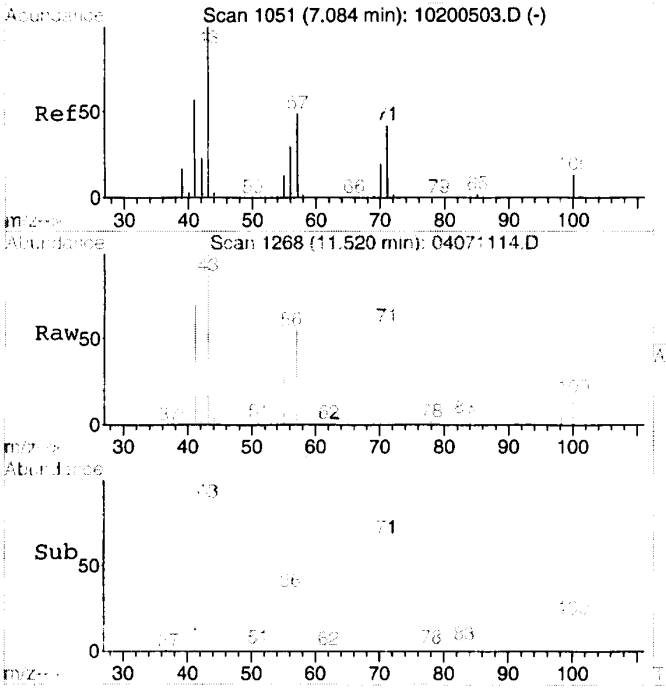


#31
Benzene
Concen: 4.49 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 78 Resp: 885176

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	20.6	0.0	36.1
52	17.9	0.0	36.0

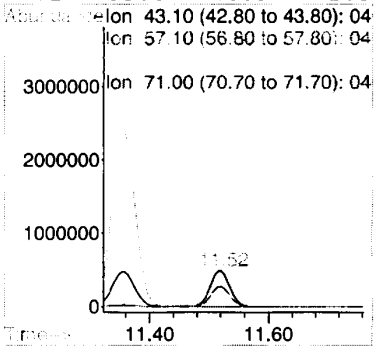


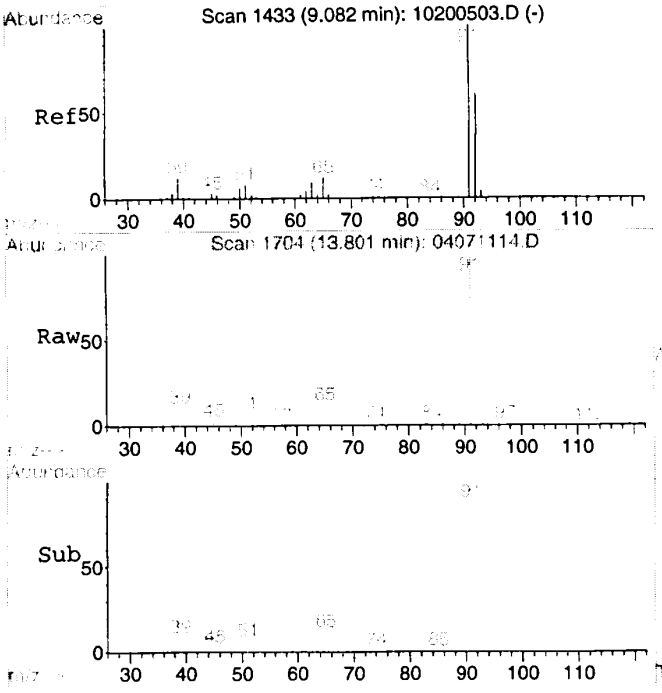


#34
Heptane
Concen: 8.26 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 43 Resp: 1139532

Ion	Ratio	Lower	Upper
43	100		
57	56.6	42.2	63.4
100	15.4	17.3	25.9#
71	55.6	48.3	72.5

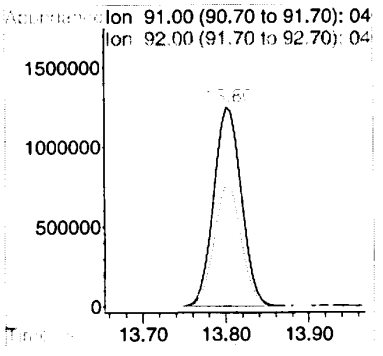


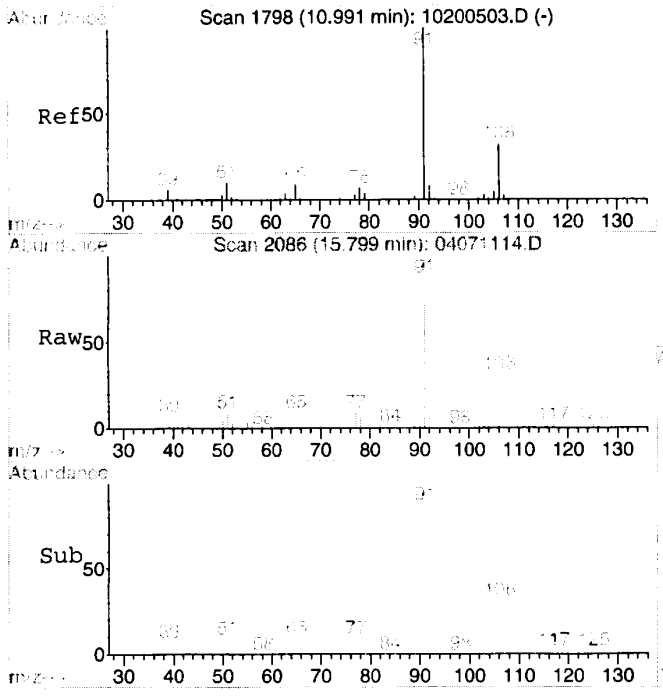


#41
Toluene
Concen: 13.84 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 91 Resp: 2897034

Ion	Ratio	Lower	Upper
91	100		
92	60.5	40.5	80.5
65	11.7	0.0	31.2

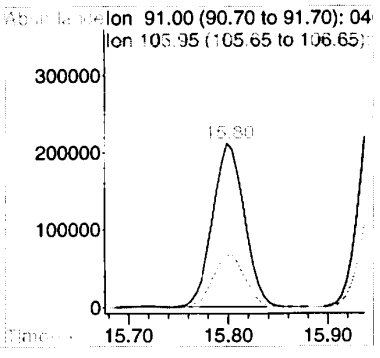


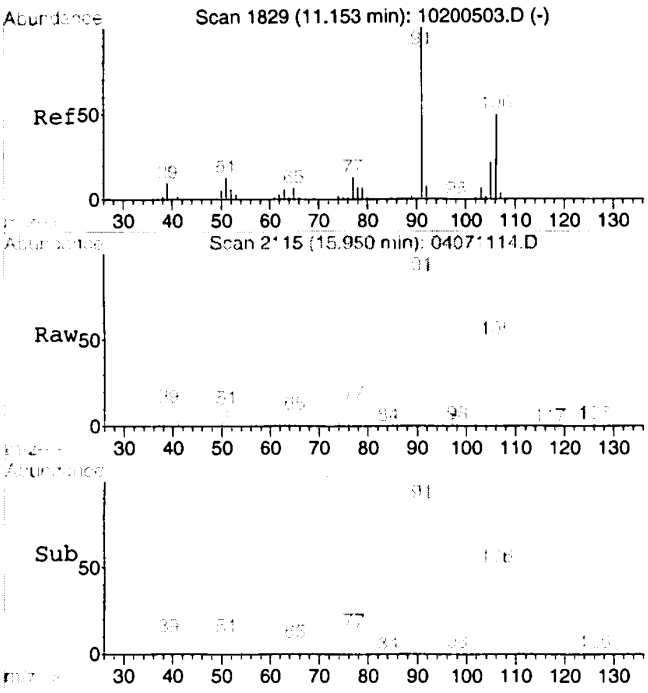


#50
Ethylbenzene
Concen: 2.04 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 91 Resp: 464989

Ion	Ratio	Lower	Upper
91	100		
106	32.5	14.9	54.9
51	10.8	0.0	33.1

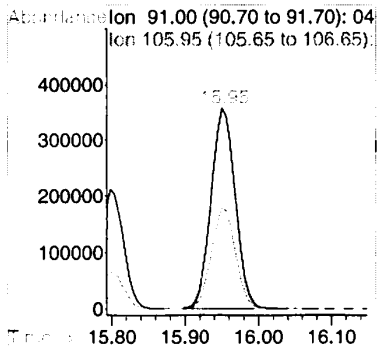


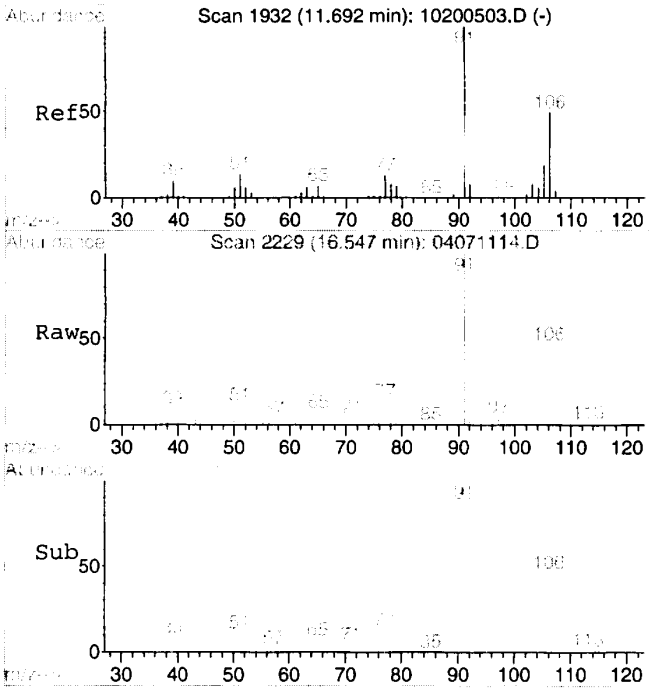


#51
m,p-Xylene
Concen: 4.69 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 91 Resp: 815187

Ion	Ratio	Lower	Upper
91	100		
106	50.1	35.6	75.6
51	10.7	0.0	29.6

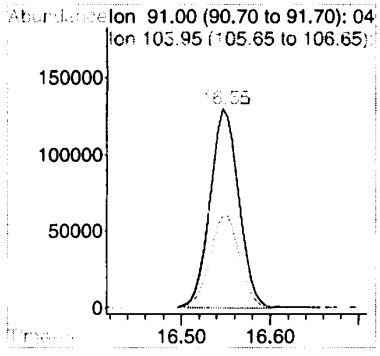




#52
o-Xylene
Concen: 1.68 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04071114.D
Acq: 7 Apr 2011 10:30 pm

Tgt Ion: 91 Resp: 292745

Ion	Ratio	Lower	Upper
91	100		
106	47.5	41.0	61.6
51	13.8	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071114.D
Acq On : 7 Apr 2011 10:30 pm
Sample : 1103609-011A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 13
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	61	90	128	rBV	2422927	13658645	88.68%	8.341%
2	6.013	201	215	230	rVB3	51432	179378	1.16%	0.110%
3	7.185	427	439	454	rBV3	83190	285888	1.86%	0.175%
4	7.561	503	511	524	rVB	111795	342373	2.22%	0.209%
5	8.157	613	625	636	rBV4	84622	307397	2.00%	0.188%
6	8.769	726	742	760	rVV2	658215	2154890	13.99%	1.316%
7	8.926	762	772	782	rVB2	107492	291254	1.89%	0.178%
8	9.088	790	803	819	rBV2	367794	1163117	7.55%	0.710%
9	9.387	849	860	877	rVB	1058460	2674919	17.37%	1.633%
10	10.004	967	978	992	rVB	472570	1241848	8.06%	0.758%
11	10.213	1003	1018	1040	rBV	922326	2550926	16.56%	1.558%
12	10.443	1055	1062	1073	rVB3	59268	167609	1.09%	0.102%
13	10.762	1113	1123	1146	rVV2	1980458	6559244	42.59%	4.005%
14	10.950	1146	1159	1166	rVV	1149963	2973590	19.31%	1.816%
15	11.034	1166	1175	1196	rVB2	2444313	6329122	41.09%	3.865%
16	11.207	1196	1208	1217	rBV3	237509	663578	4.31%	0.405%
17	11.358	1217	1237	1250	rVV	5310251	15402002	100.00%	9.405%
18	11.468	1250	1258	1262	rVV2	1121174	2744492	17.82%	1.676%
19	11.520	1262	1268	1285	rVB2	2610834	6453055	41.90%	3.941%
20	11.860	1322	1333	1353	rBV	2967603	6828121	44.33%	4.170%
21	12.200	1386	1398	1405	rBV2	495441	1180758	7.67%	0.721%
22	12.284	1405	1414	1424	rVV	876834	2337930	15.18%	1.428%
23	12.389	1424	1434	1458	rVV2	3536047	9617413	62.44%	5.873%
24	12.566	1458	1468	1474	rVV4	273453	798834	5.19%	0.488%
25	12.624	1474	1479	1490	rVB2	263983	627954	4.08%	0.383%
26	12.791	1495	1511	1527	rBV	2559521	6622987	43.00%	4.044%
27	12.985	1527	1548	1568	rVB	3236338	11628187	75.50%	7.101%
28	13.147	1568	1579	1596	rBV2	573843	1844222	11.97%	1.126%
29	13.267	1596	1602	1607	rVV2	115862	278898	1.81%	0.170%
30	13.341	1607	1616	1632	rVB	1114086	2848151	18.49%	1.739%
31	13.571	1650	1660	1666	rBV2	842756	2182039	14.17%	1.332%
32	13.670	1673	1679	1693	rVB	1409336	3036193	19.71%	1.854%
33	13.801	1693	1704	1720	rVB	3160518	7880651	51.17%	4.812%
34	13.932	1720	1729	1740	rBV5	97508	274755	1.78%	0.168%
35	14.078	1747	1757	1769	rVB3	478738	1475748	9.58%	0.901%
36	14.198	1769	1780	1789	rVV6	186941	588800	3.82%	0.360%
37	14.282	1789	1796	1805	rVV	214914	470216	3.05%	0.287%
38	14.371	1808	1813	1822	rVB7	80696	191935	1.25%	0.117%
39	14.460	1822	1830	1834	rBV2	130790	294803	1.91%	0.180%
40	14.512	1834	1840	1849	rVB5	113824	307257	1.99%	0.188%
41	14.685	1864	1873	1886	rBV3	123317	334219	2.17%	0.204%
42	14.826	1886	1900	1906	rBV	831952	2203575	14.31%	1.346%
43	14.883	1906	1911	1918	rVV	492471	1241742	8.06%	0.758%

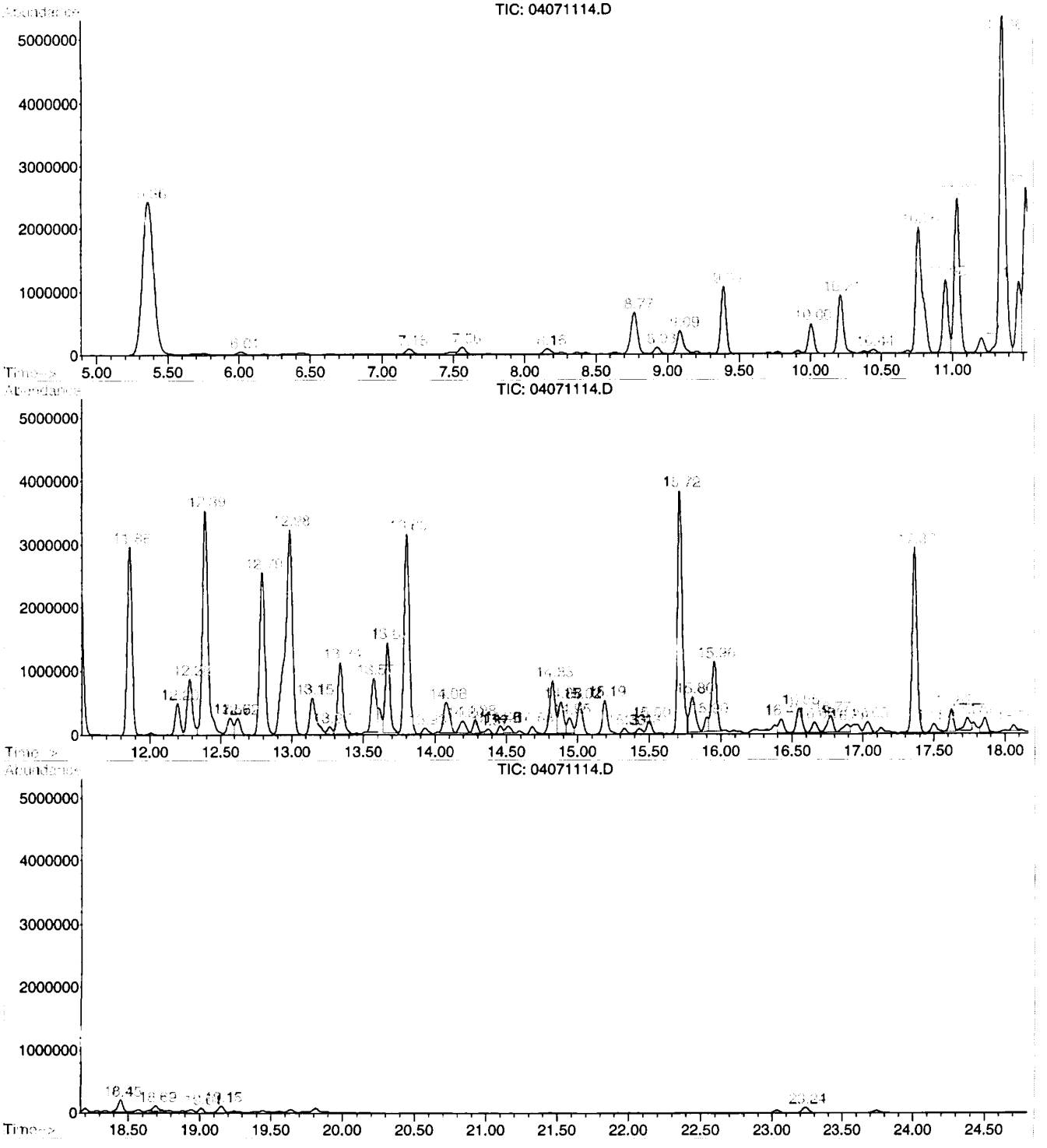
44	14.946	1918	1923	1929	rVV3	248243	600710	3.90%	0.367%
45	15.019	1929	1937	1953	rVB2	510604	1349297	8.76%	0.824%
46	15.192	1953	1970	1988	rBV	534854	1391255	9.03%	0.850%
47	15.328	1988	1996	2004	rBV2	86941	202788	1.32%	0.124%
48	15.433	2008	2016	2022	rVV3	80179	202035	1.31%	0.123%
49	15.501	2022	2029	2038	rVB	199945	472568	3.07%	0.289%
50	15.715	2056	2070	2080	rBV	3823979	9038124	58.68%	5.519%
51	15.804	2081	2087	2099	rVV2	559172	1555292	10.10%	0.950%
52	15.903	2099	2106	2108	rVV	234059	442214	2.87%	0.270%
53	15.956	2108	2116	2127	rVB	1082070	2715349	17.63%	1.658%
54	16.426	2200	2206	2216	rVB	215291	529674	3.44%	0.323%
55	16.547	2219	2229	2240	rBV2	382834	1009325	6.55%	0.616%
56	16.656	2241	2250	2260	rBV3	166452	435433	2.83%	0.266%
57	16.772	2260	2272	2281	rVB7	263124	799393	5.19%	0.488%
58	16.892	2281	2295	2299	rBV8	127485	435176	2.83%	0.266%
59	17.033	2314	2322	2332	rVB4	167690	457570	2.97%	0.279%
60	17.368	2368	2386	2401	rBV	2922953	6748267	43.81%	4.121%
61	17.499	2403	2411	2425	rBV4	140868	408758	2.65%	0.250%
62	17.624	2427	2435	2442	rBV	353163	714013	4.64%	0.436%
63	17.734	2442	2456	2462	rBV3	202045	598323	3.88%	0.365%
64	17.859	2473	2480	2495	rVB2	239278	609955	3.96%	0.372%
65	18.058	2512	2518	2527	rBV3	92393	208162	1.35%	0.127%
66	18.445	2579	2592	2602	rBV	195803	503037	3.27%	0.307%
67	18.691	2630	2639	2654	rVV6	91749	290095	1.88%	0.177%
68	19.010	2694	2700	2711	rVB3	77366	182630	1.19%	0.112%
69	19.151	2711	2727	2736	rBV4	112307	324495	2.11%	0.198%
70	23.236	3496	3508	3522	rVB3	91292	297906	1.93%	0.182%

Sum of corrected areas: 163760559

04071114.D 040711V1.M Thu Apr 14 15:59:29 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071114.D
Operator : Michael Truchan/Rachel Hill
Acquired : 7 Apr 2011 10:30 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-011A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 13
Quant File :040711V1.RES (RTE Integrator)



04071114.D 040711V1.M Thu Apr 14 15:59:30 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	26.03 ppbv	13658600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	4.11 ppbv	2154890	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	83
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

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Peak Number 3 Pentane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	2.22 ppbv	1163120	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	74
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071114.D
Acq On : 7 Apr 2011 10:30 pm
Sample : 1103609-011A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 13
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	2.37 ppbv	1241850	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

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Peak Number 5 Cyclopentane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	4.86 ppbv	2550930	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	49
5	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	47

****

Peak Number 6 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	5.67 ppbv	2973590	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	28.20 ppbv	15402000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64

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Peak Number 8 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	2.16 ppbv	1180760	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	86
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	46
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	25
4	1-Pyrrolidinecarboxaldehyde $$ N-Fo	99	C5H9NO	003760-54-1	22
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	18

****

Peak Number 9 Hexane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	4.28 ppbv	2337930	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	40
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	38

Data File : C:\HPCHEM\1\DATA\040711\04071114.D
Acq On : 7 Apr 2011 10:30 pm
Sample : 1103609-011A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 13
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclohexane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	17.61 ppbv	9617410	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	3-Penten-2-one, 4-methyl- $$ Aceton	98	C6H10O	000141-79-7	58

****

Peak Number 11 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	12.12 ppbv	6622990	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64

****

Peak Number 12 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	21.29 ppbv	11628200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	90
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	59
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	59
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
5	Hexane, 3,3-dimethyl- $$ 3,3-Dimeth	114	C8H18	000563-16-6	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.38 ppbv	1844220	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	43

****

Peak Number 14 Hexane, 2,2,5-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	5.21 ppbv	2848150	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64

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Peak Number 15 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	3.99 ppbv	2182040	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Octane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	5.56 ppbv	3036190	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	58
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	56

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Peak Number 17 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	2.04 ppbv	1475750	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
2	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	92
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87

****

Peak Number 18 Cyclohexane, ethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	3.05 ppbv	2203580	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	81

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071114.D Vial: 13
Acq On : 7 Apr 2011 10:30 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	1.87 ppbv	1349300	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	72
2	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	62
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	62
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59
5	Octane	114	C8H18	000111-65-9	59

****

Peak Number 20 Octane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	1.92 ppbv	1391260	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	49
2	Heptane, 3-ethyl-2-methyl- $$ 2-Met	142	C10H22	014676-29-0	40
3	Heptane, 3-ethyl- $$ 3-Ethylheptane	128	C9H20	015869-80-4	38
4	Heptane, 3-ethyl-	128	C9H20	015869-80-4	38
5	Hexane, 4-ethyl-2-methyl- $$ 4-Ethy	128	C9H20	003074-75-7	38

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 7 Apr 2011 10:30 pm
Data File: C:\HPCHEM\1\DATA\040711\04071114.D
Name: 1103609-011A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	26.0	ppbv	13658600	ISTD01	10.76	6559240	12.5
Pentane, 2-methyl-	8.77	4.1	ppbv	2154890	ISTD01	10.76	6559240	12.5
Pentane, 3-methyl-	9.09	2.2	ppbv	1163120	ISTD01	10.76	6559240	12.5
Pentane, 2,4-dimethy	10.00	2.4	ppbv	1241850	ISTD01	10.76	6559240	12.5
Cyclopentane, methyl	10.21	4.9	ppbv	2550930	ISTD01	10.76	6559240	12.5
Pentane, 2,3-dimethy	10.95	5.7	ppbv	2973590	ISTD01	10.76	6559240	12.5
Hexane, 2,2-dimethyl	11.36	28.2	ppbv	15402000	ISTD02	11.86	6828120	12.5
Hexane, 2,5-dimethyl	12.20	2.2	ppbv	1180760	ISTD02	11.86	6828120	12.5
Hexane, 2,4-dimethyl	12.28	4.3	ppbv	2337930	ISTD02	11.86	6828120	12.5
Cyclohexane, methyl-	12.39	17.6	ppbv	9617410	ISTD02	11.86	6828120	12.5
Pentane, 2,3,4-trime	12.79	12.1	ppbv	6622990	ISTD02	11.86	6828120	12.5
Pentane, 2,3,3-trime	12.98	21.3	ppbv	11628200	ISTD02	11.86	6828120	12.5
Heptane, 3-methyl-	13.15	3.4	ppbv	1844220	ISTD02	11.86	6828120	12.5
Hexane, 2,2,5-trimet	13.34	5.2	ppbv	2848150	ISTD02	11.86	6828120	12.5
Cyclohexane, 1,3-dim	13.57	4.0	ppbv	2182040	ISTD02	11.86	6828120	12.5
Octane	13.67	5.6	ppbv	3036190	ISTD02	11.86	6828120	12.5
Cyclohexane, 1,2-dim	14.08	2.0	ppbv	1475750	ISTD03	15.72	9038120	12.5
Cyclohexane, ethyl-	14.83	3.0	ppbv	2203580	ISTD03	15.72	9038120	12.5
Octane, 4-methyl-	15.02	1.9	ppbv	1349300	ISTD03	15.72	9038120	12.5
Octane, 3-methyl-	15.19	1.9	ppbv	1391260	ISTD03	15.72	9038120	12.5

04071114.D 040711V1.M Thu Apr 14 15:59:31 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071115.D Vial: 14
Acq On : 7 Apr 2011 11:10 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011ADUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:37 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

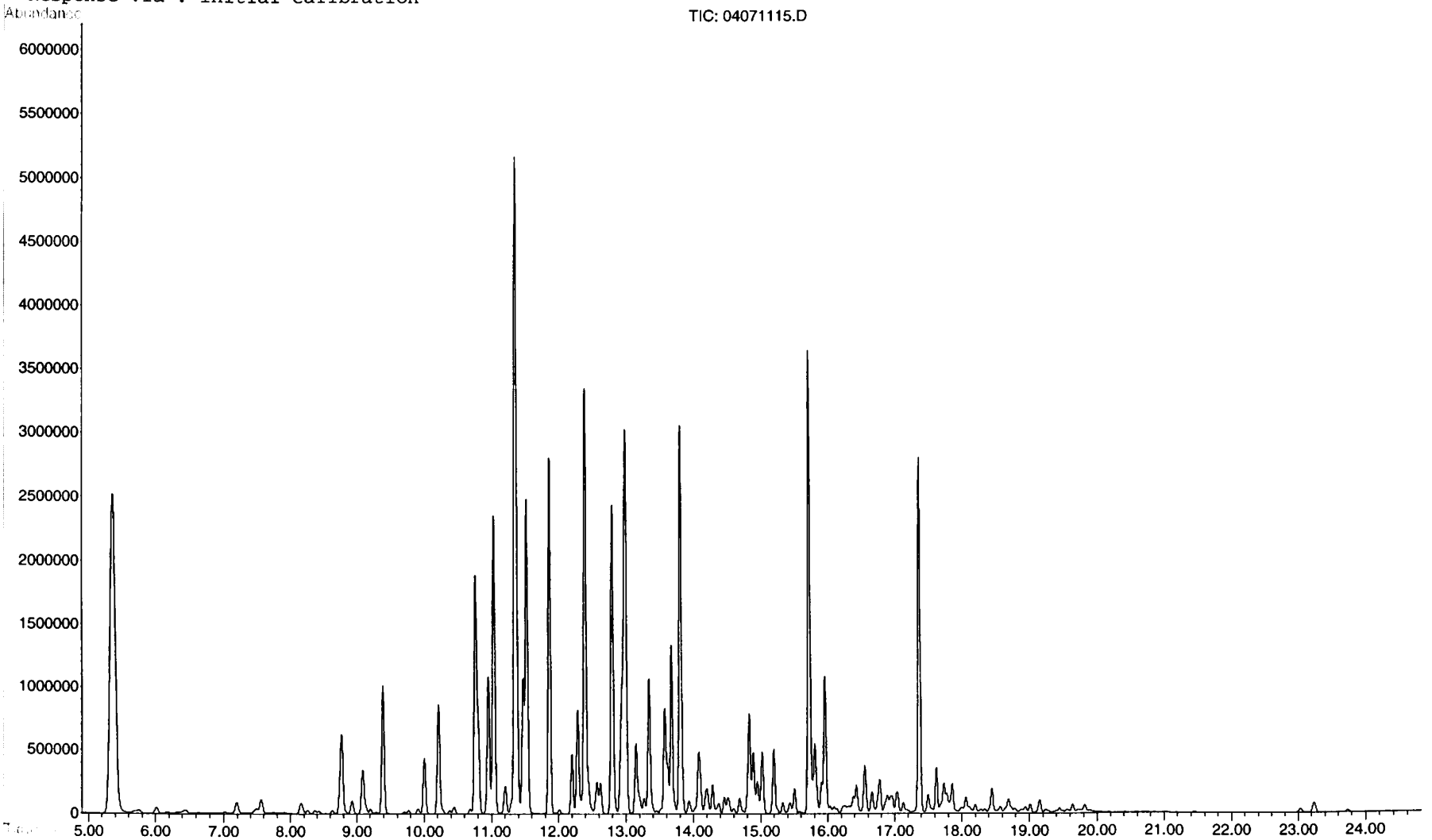
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	831234	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2887905	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	2079508	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1299726	12.45	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.60%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	641806	5.48	ppbv		96
29) Cyclohexane	11.03	56	1066987	9.10	ppbv	#	79
31) Benzene	11.47	78	841293	4.51	ppbv		95
34) Heptane	11.52	43	1079483	8.20	ppbv	#	94
41) Toluene	13.81	91	2765345	13.85	ppbv		99
50) Ethylbenzene	15.80	91	444080	2.05	ppbv		96
51) m,p-Xylene	15.95	91	779365	4.70	ppbv		92
52) o-Xylene	16.55	91	279816	1.68	ppbv	#	89

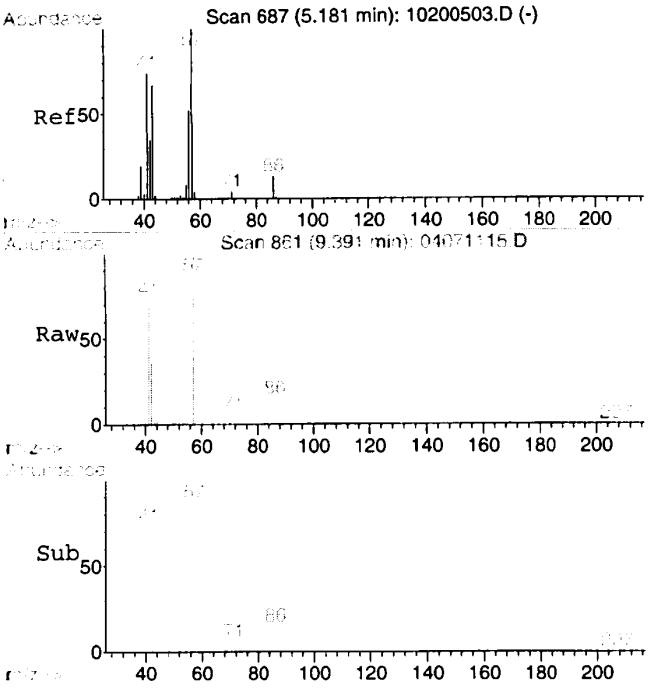
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071115.D Vial: 14
Acq On : 7 Apr 2011 11:10 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-011ADUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:37 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

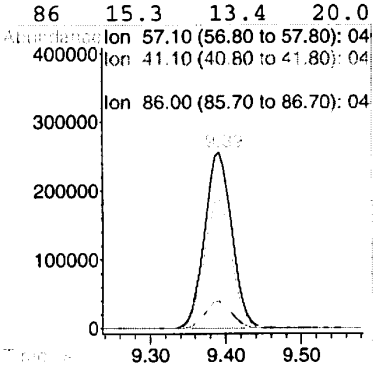


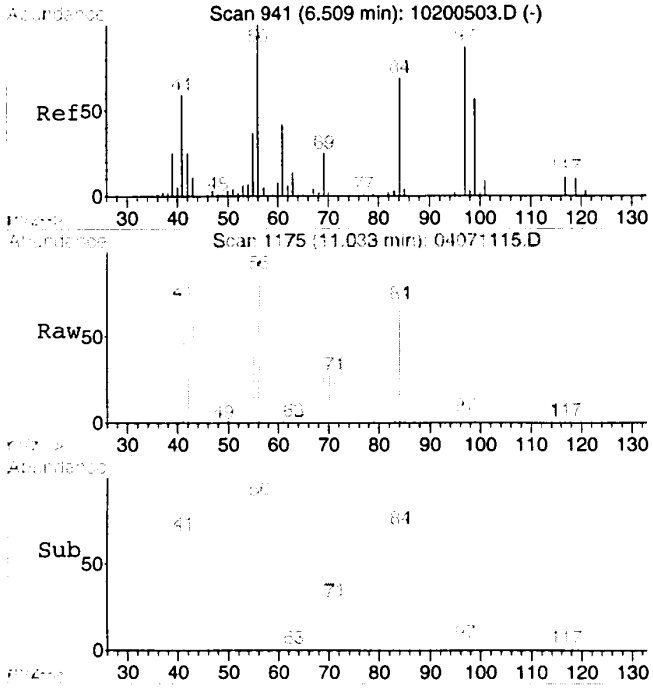


#20
n-Hexane
Concen: 5.48 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 57 Resp: 641806

Ion	Ratio	Lower	Upper
57	100		
41	74.9	57.2	85.8
53	2.4	1.8	2.8
86	15.3	13.4	20.0

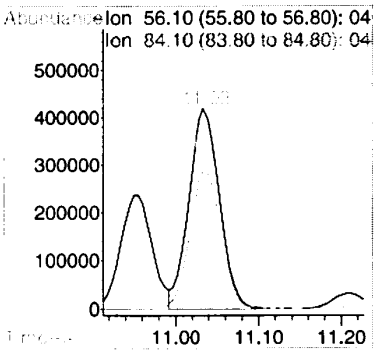


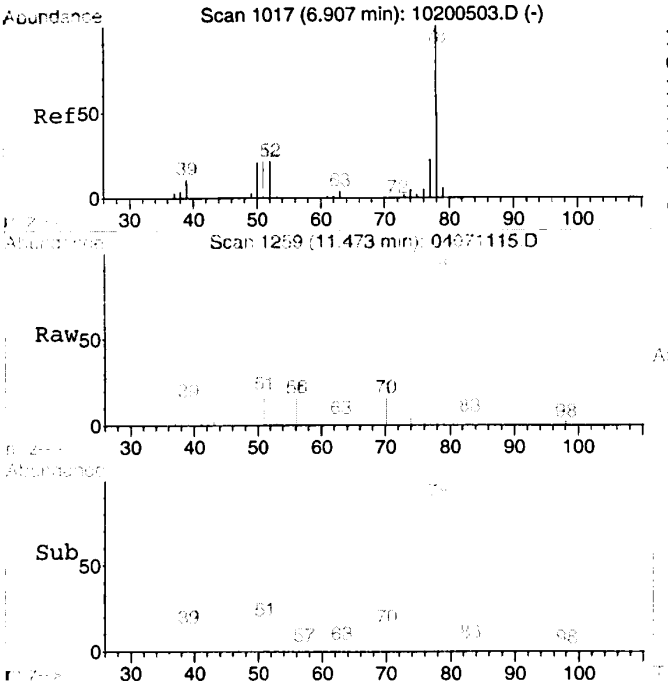


#29
Cyclohexane
Concen: 9.10 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 56 Resp: 1066987

Ion	Ratio	Lower	Upper
56	100		
84	70.1	72.4	108.6#
41	70.0	43.8	65.8#

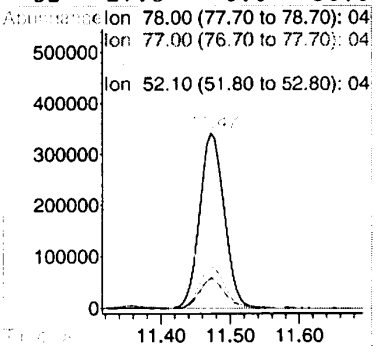


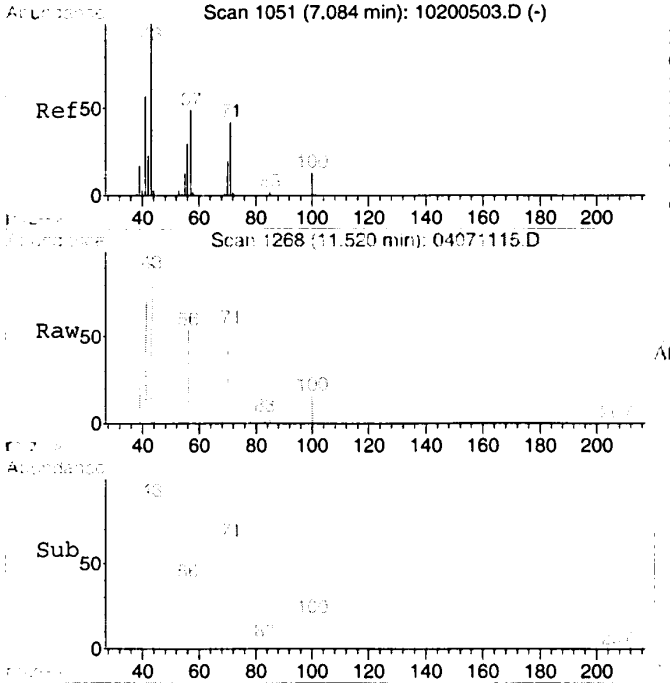


#31
Benzene
Concen: 4.51 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 78 Resp: 841293

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	20.6	0.0	36.1
52	17.8	0.0	36.0

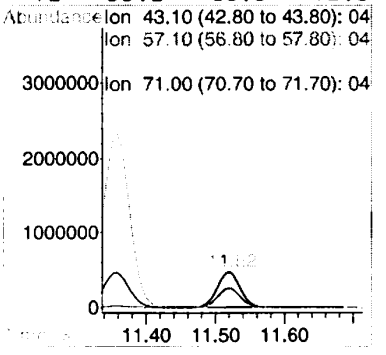


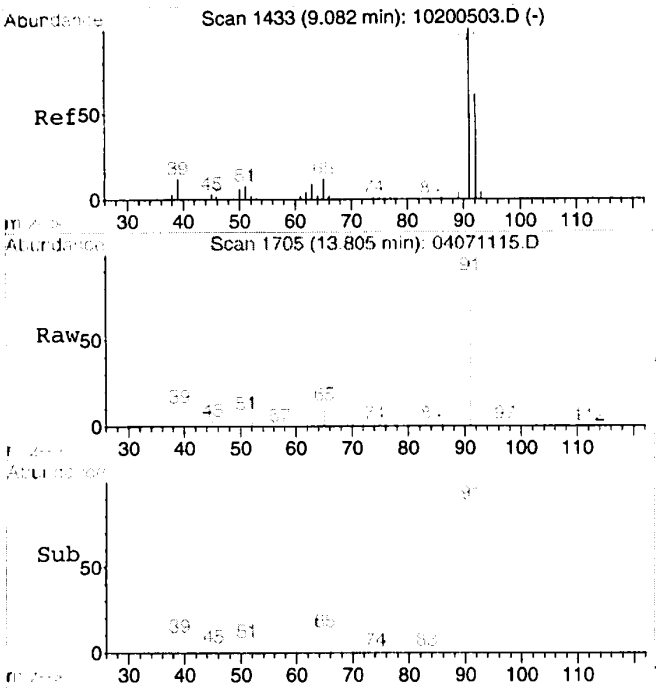


#34
Heptane
Concen: 8.20 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 43 Resp: 1079483

Ion	Ratio	Lower	Upper
43	100		
57	54.0	42.2	63.4
100	15.2	17.3	25.9#
71	55.2	48.3	72.5

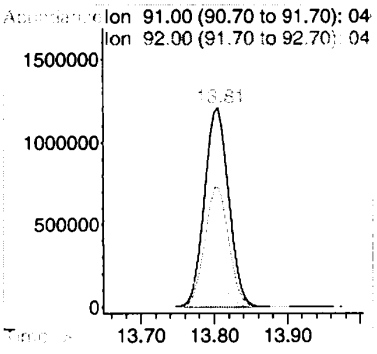


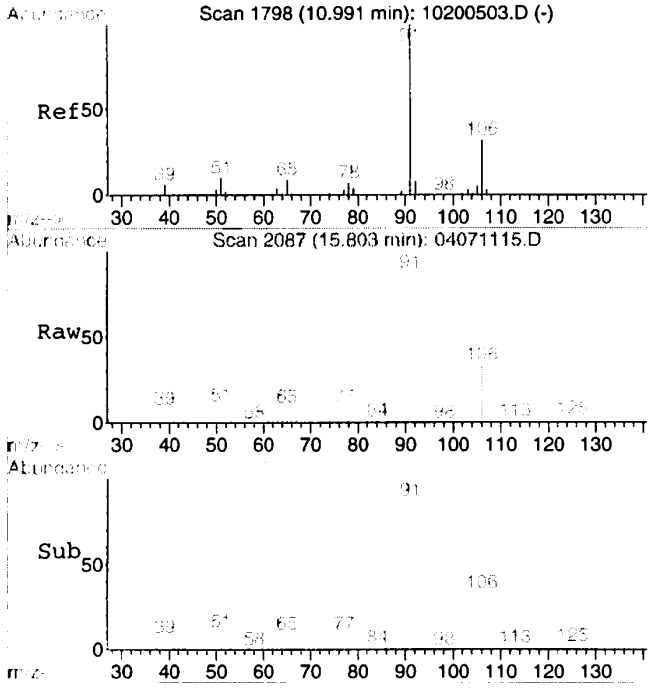


#41
Toluene
Concen: 13.85 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 91 Resp: 2765345

Ion	Ratio	Lower	Upper
91	100		
92	60.2	40.5	80.5
65	11.8	0.0	31.2

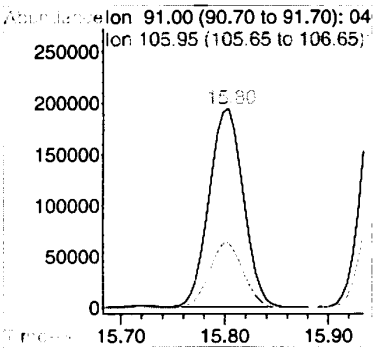


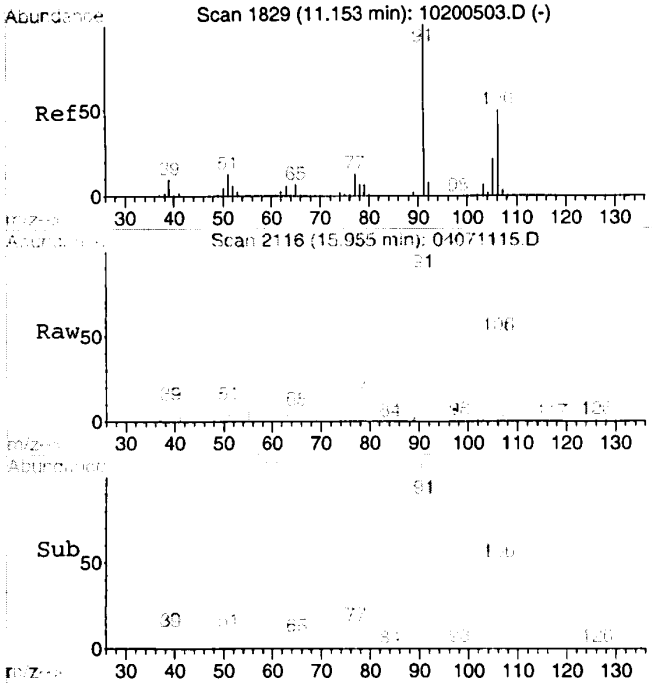


#50
Ethylbenzene
Concen: 2.05 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 91 Resp: 444080

Ion	Ratio	Lower	Upper
91	100		
106	32.4	14.9	54.9
51	11.6	0.0	33.1

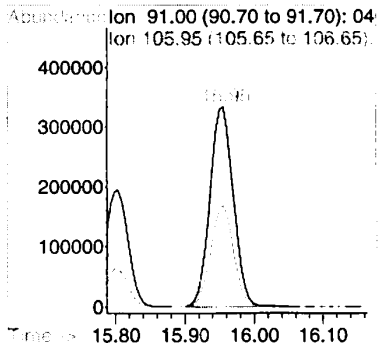


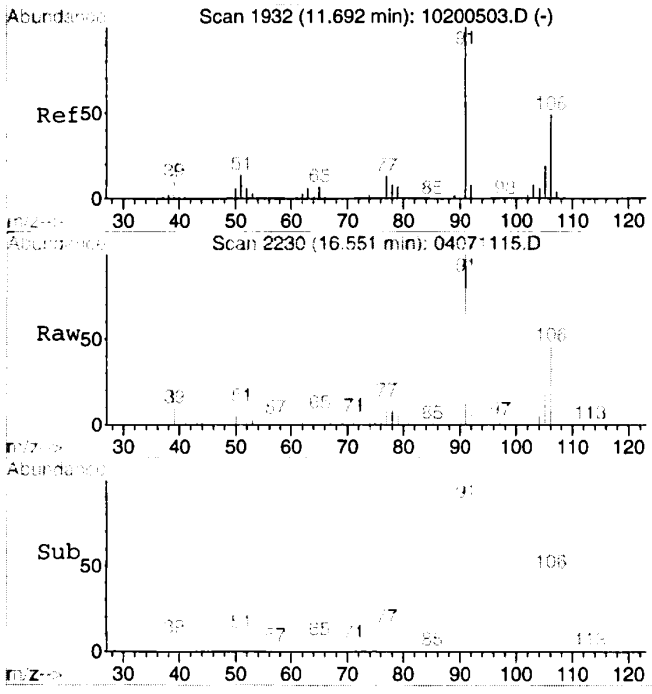


#51
m,p-Xylene
Concen: 4.70 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 91 Resp: 779365

Ion	Ratio	Lower	Upper
91	100		
106	49.6	35.6	75.6
51	10.7	0.0	29.6

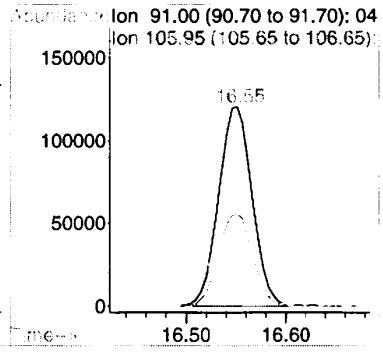




#52
o-Xylene
Concen: 1.68 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04071115.D
Acq: 7 Apr 2011 11:10 pm

Tgt Ion: 91 Resp: 279816

Ion	Ratio	Lower	Upper
91	100		
106	47.1	41.0	61.6
51	14.0	19.7	29.5#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071116.D Vial: 15
Acq On : 7 Apr 2011 11:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:37 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

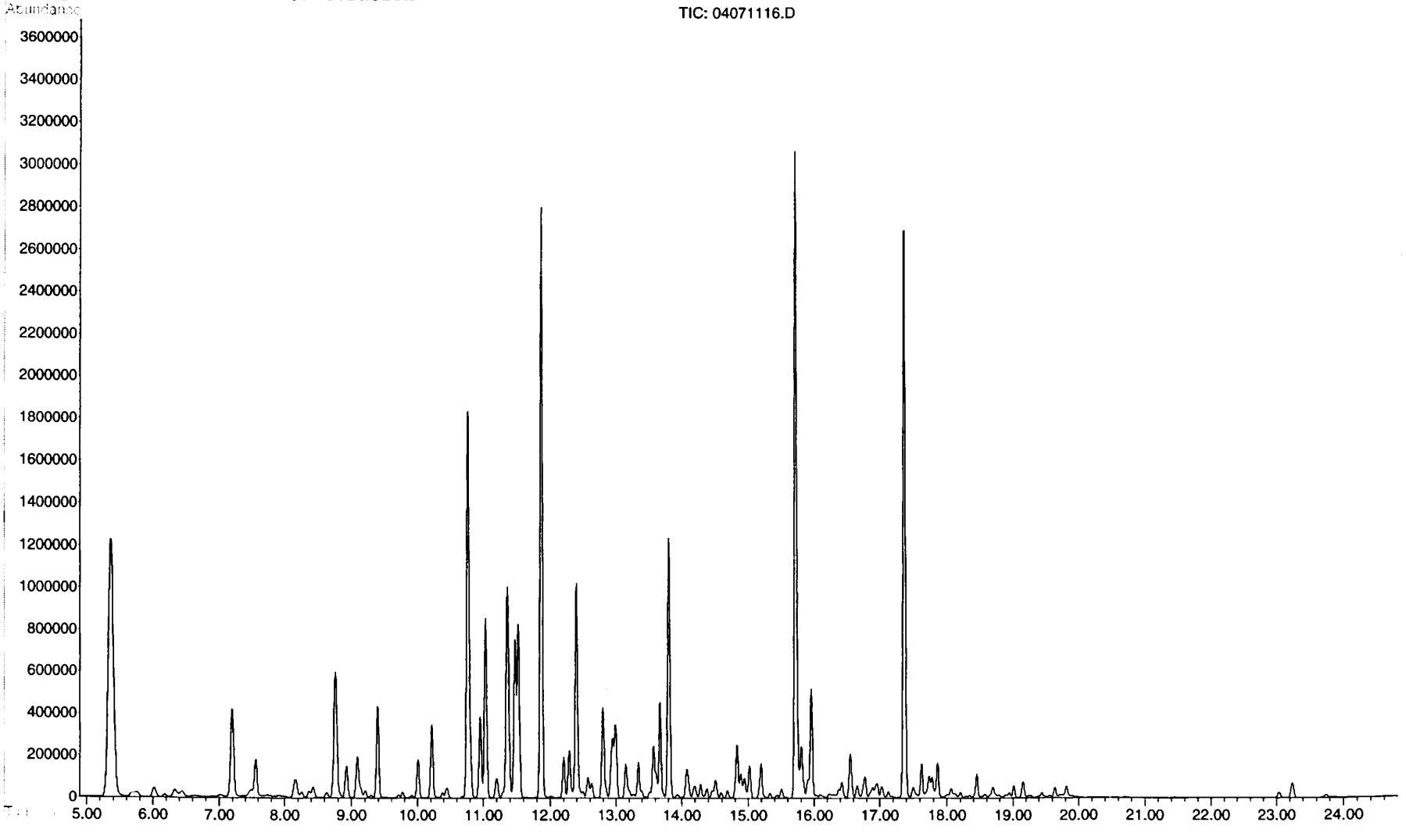
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	810575	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2845154	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2031838	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.36	95	1260258	12.35	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.80%				
Target Compounds							Qvalue
16) 2-Propanol	8.43	45	96634	1.36	ppbv	#	1
17) Methylene chloride	8.92	49	92789	1.13	ppbv		92
20) n-Hexane	9.39	57	275881	2.42	ppbv		95
29) Cyclohexane	11.03	56	393916	3.44	ppbv	#	80
31) Benzene	11.47	78	721635	3.97	ppbv		97
34) Heptane	11.52	43	370218	2.86	ppbv	#	93
41) Toluene	13.80	91	1153646	5.86	ppbv		99
50) Ethylbenzene	15.80	91	214483	1.01	ppbv		95
51) m,p-Xylene	15.95	91	391421	2.42	ppbv		93

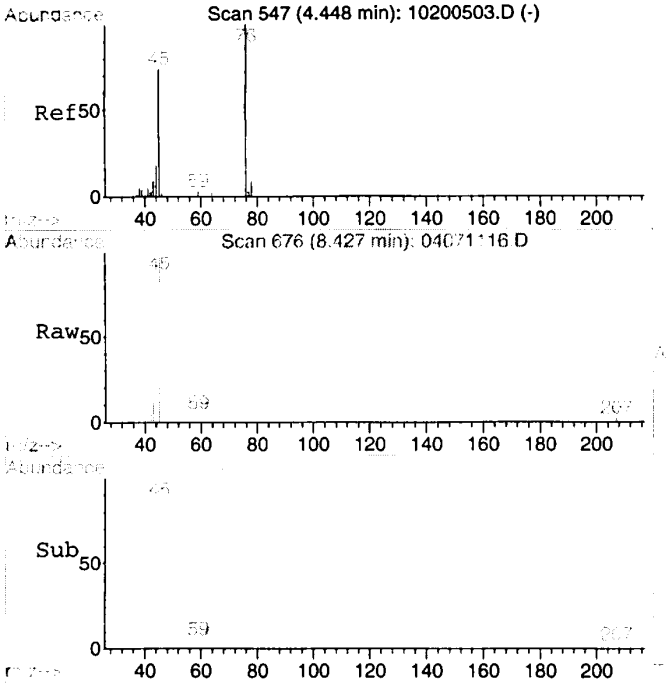
(#) = qualifier out of range (m) = manual integration
04071116.D 040711V1.M Thu Apr 14 15:59:55 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071116.D Vial: 15
Acq On : 7 Apr 2011 11:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:37 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

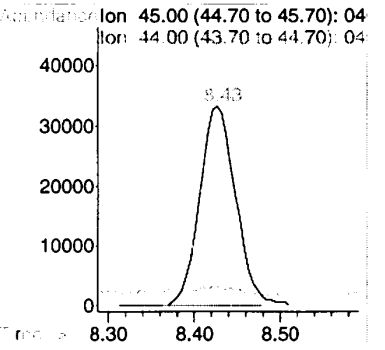


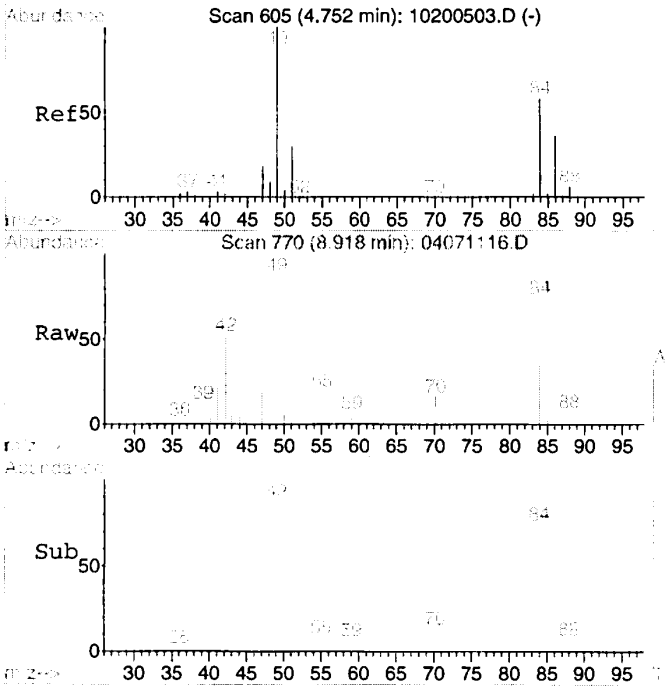


#16
2-Propanol
Concen: 1.36 ppbv
RT: 8.43 min Scan# 676
Delta R.T. 0.02 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 45 Resp: 96634

Ion	Ratio	Lower	Upper
45	100		
44	4.0	5.2	7.8#
43	0.0	101.1	151.7#

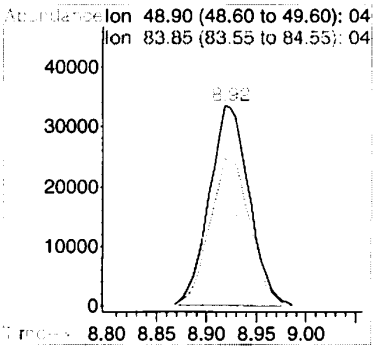


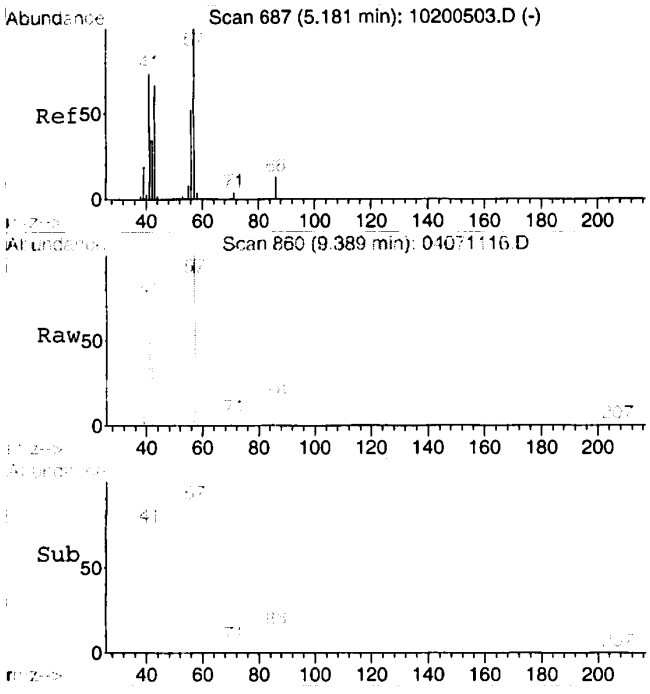


#17
Methylene chloride
Concen: 1.13 ppbv
RT: 8.92 min Scan# 770
Delta R.T. -0.01 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 49 Resp: 92789

Ion	Ratio	Lower	Upper
49	100		
84	74.6	65.4	98.2
86	47.7	42.3	63.5

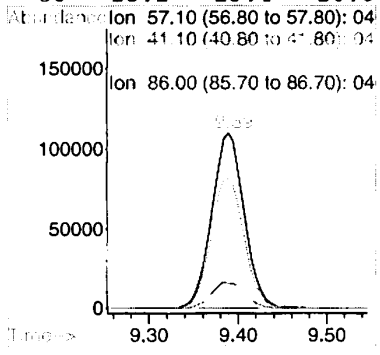


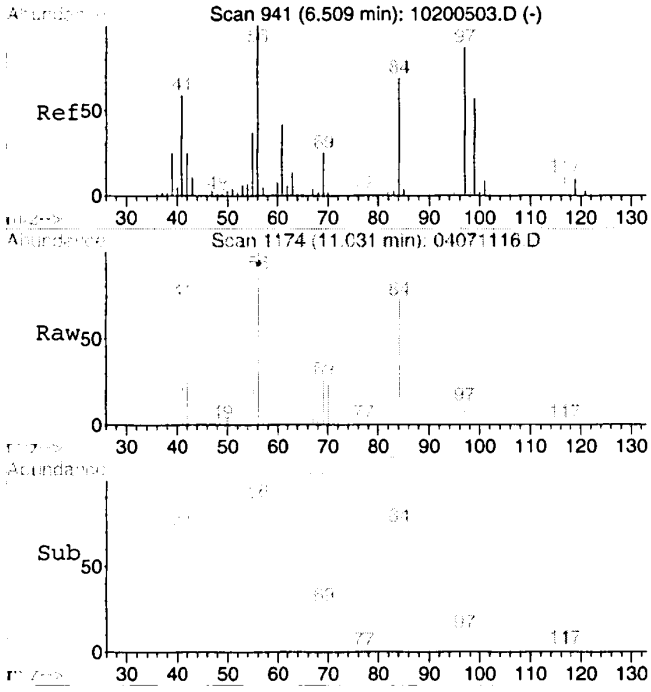


#20
n-Hexane
Concen: 2.42 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 57 Resp: 275881

Ion	Ratio	Lower	Upper
57	100		
41	76.1	57.2	85.8
53	2.5	1.8	2.8
86	15.1	13.4	20.0

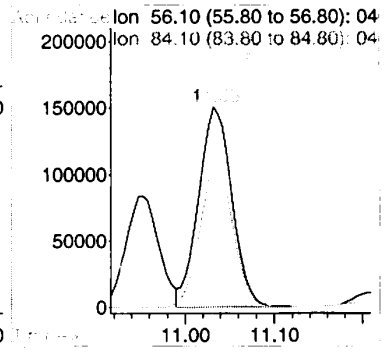


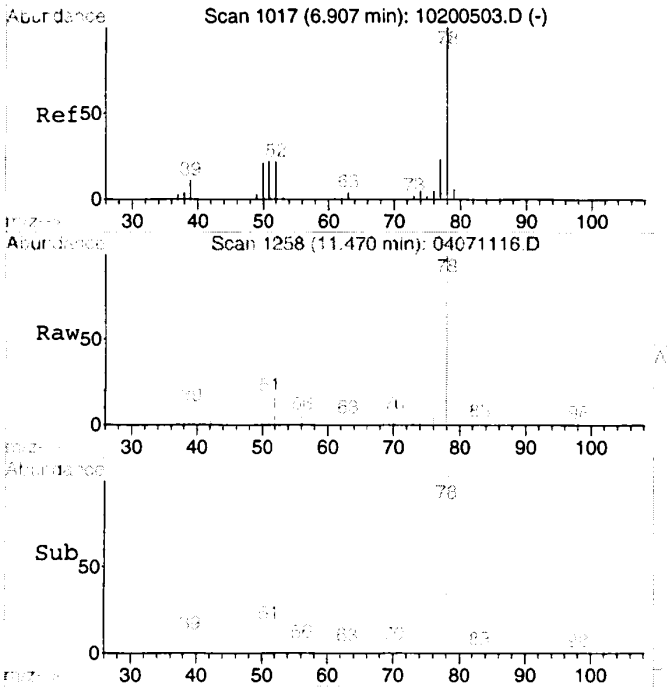


#29
Cyclohexane
Concen: 3.44 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 56 Resp: 393916

Ion	Ratio	Lower	Upper
56	100		
84	72.2	72.4	108.6#
41	70.4	43.8	65.8#

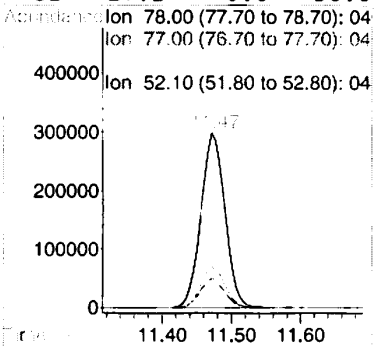


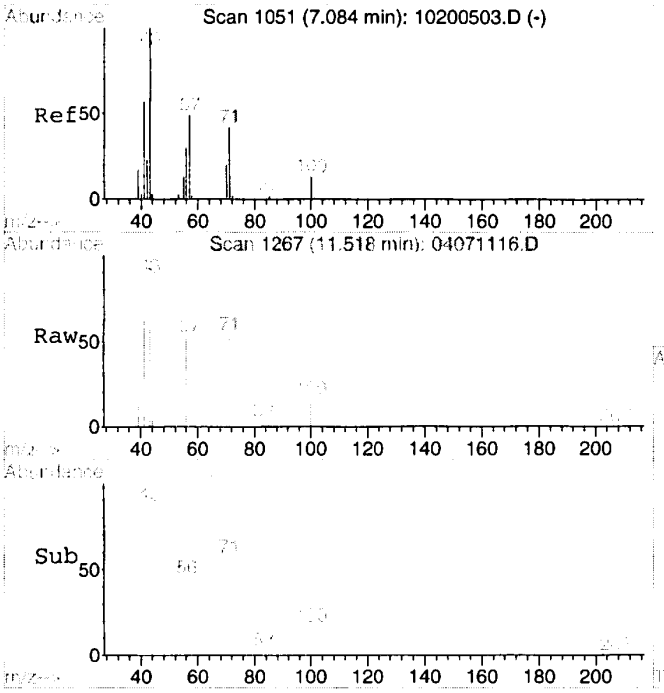


#31
Benzene
Concen: 3.97 ppbv
RT: 11.47 min Scan# 1258
Delta R.T. -0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 78 Resp: 721635

Ion	Ratio	Lower	Upper
78	100		
77	24.2	3.7	43.7
51	18.9	0.0	36.1
52	17.2	0.0	36.0

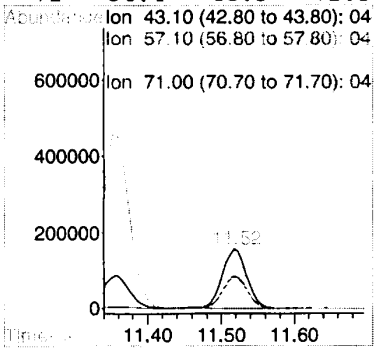


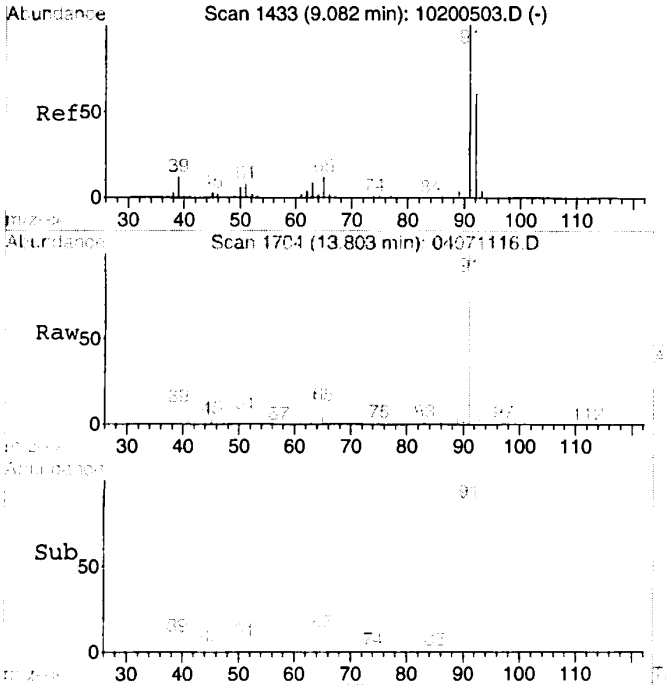


#34
Heptane
Concen: 2.86 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 43 Resp: 370218

Ion	Ratio	Lower	Upper
43	100		
57	55.7	42.2	63.4
100	15.5	17.3	25.9#
71	54.4	48.3	72.5

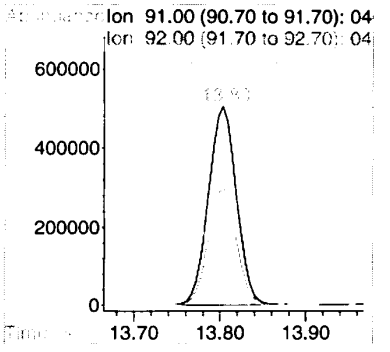


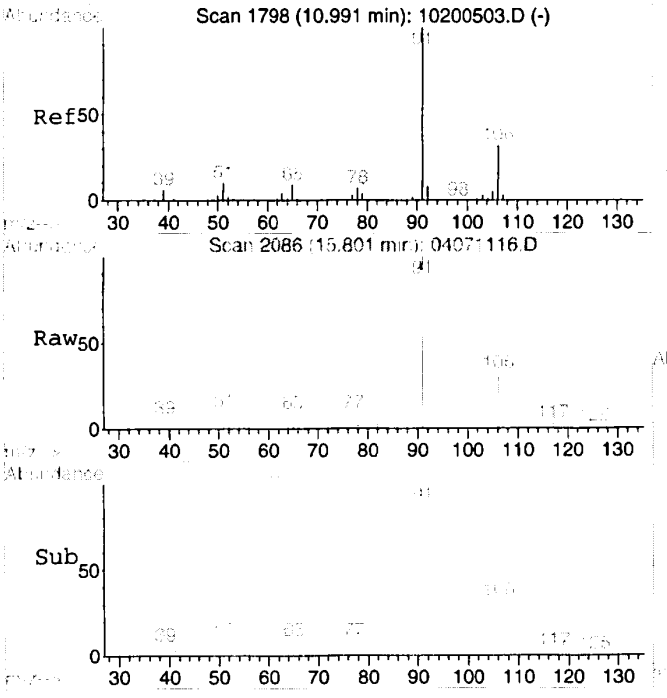


#41
Toluene
Concen: 5.86 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 91 Resp: 1153646

Ion	Ratio	Lower	Upper
91	100		
92	59.5	40.5	80.5
65	11.3	0.0	31.2

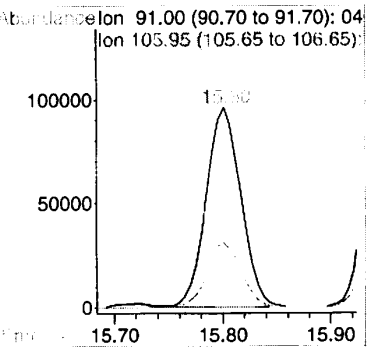


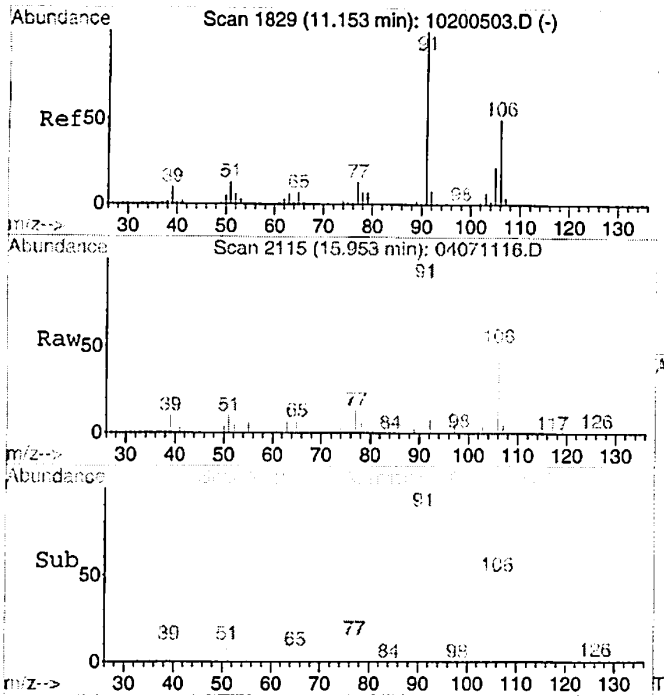


#50
Ethylbenzene
Concen: 1.01 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 91 Resp: 214483

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	10.7	0.0	33.1

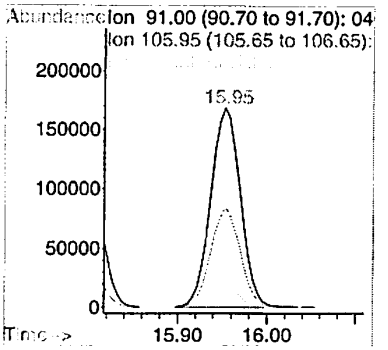




#51
m,p-Xylene
Concen: 2.42 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04071116.D
Acq: 7 Apr 2011 11:49 pm

Tgt Ion: 91 Resp: 391421

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.6	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071116.D
Acq On : 7 Apr 2011 11:49 pm
Sample : 1103609-012A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.362	64	90	125	rBV	1228049	6768863	95.30%	9.241%
2	6.015	200	215	234	rBV5	46457	187393	2.64%	0.256%
3	6.329	262	275	286	rBV4	35846	150924	2.12%	0.206%
4	7.192	425	440	455	rBV	416920	1413313	19.90%	1.929%
5	7.485	480	496	497	rBV5	34056	89025	1.25%	0.122%
6	7.564	502	511	524	rVB2	173234	526136	7.41%	0.718%
7	8.155	612	624	637	rBV4	87599	346816	4.88%	0.473%
8	8.369	654	665	669	rVV2	30410	82933	1.17%	0.113%
9	8.427	669	676	690	rVB	53031	151952	2.14%	0.207%
10	8.761	724	740	760	rVV3	598874	2054143	28.92%	2.804%
11	8.929	760	772	788	rVB2	151363	433837	6.11%	0.592%
12	9.086	788	802	819	rBV2	198049	668698	9.42%	0.913%
13	9.206	819	825	833	rVB3	35053	83062	1.17%	0.113%
14	9.389	849	860	872	rBV	435460	1087347	15.31%	1.484%
15	10.006	967	978	988	rVB2	183937	480759	6.77%	0.656%
16	10.215	1005	1018	1037	rBV	350104	929794	13.09%	1.269%
17	10.445	1055	1062	1072	rVB2	48819	139715	1.97%	0.191%
18	10.764	1111	1123	1145	rVB	1838729	5037753	70.93%	6.878%
19	10.953	1148	1159	1166	rBV	385101	996853	14.04%	1.361%
20	11.031	1166	1174	1186	rVB2	857077	2191805	30.86%	2.992%
21	11.199	1194	1206	1217	rBV6	95272	277160	3.90%	0.378%
22	11.355	1217	1236	1249	rVV	1007128	2981898	41.98%	4.071%
23	11.470	1249	1258	1263	rVV	754675	1931676	27.20%	2.637%
24	11.518	1263	1267	1283	rVB2	829354	1990442	28.03%	2.717%
25	11.863	1321	1333	1351	rBV	2808956	6442193	90.70%	8.795%
26	12.203	1387	1398	1405	rBV2	192476	457564	6.44%	0.625%
27	12.286	1405	1414	1423	rVV2	224982	591973	8.33%	0.808%
28	12.391	1423	1434	1449	rVV	1026009	2655982	37.40%	3.626%
29	12.569	1459	1468	1474	rVV4	99480	279589	3.94%	0.382%
30	12.626	1474	1479	1492	rVB5	71136	167410	2.36%	0.229%
31	12.794	1498	1511	1527	rBV2	431827	1183691	16.67%	1.616%
32	12.945	1527	1540	1543	rVV4	285432	856697	12.06%	1.170%
33	12.987	1544	1548	1563	rVB2	348581	865773	12.19%	1.182%
34	13.144	1568	1578	1596	rBV	164858	518517	7.30%	0.708%
35	13.338	1607	1615	1622	rBV	165045	391991	5.52%	0.535%
36	13.573	1651	1660	1666	rBV2	223463	568389	8.00%	0.776%
37	13.672	1672	1679	1693	rVB	451112	1002765	14.12%	1.369%
38	13.803	1693	1704	1721	rVB	1238416	2994753	42.17%	4.088%
39	14.075	1739	1756	1769	rBV5	140633	459610	6.47%	0.627%
40	14.190	1769	1778	1789	rVV5	52919	160135	2.25%	0.219%
41	14.284	1789	1796	1804	rVV3	62862	133975	1.89%	0.183%
42	14.378	1806	1814	1822	rVB3	43891	105018	1.48%	0.143%
43	14.457	1822	1829	1833	rBV2	36293	83996	1.18%	0.115%

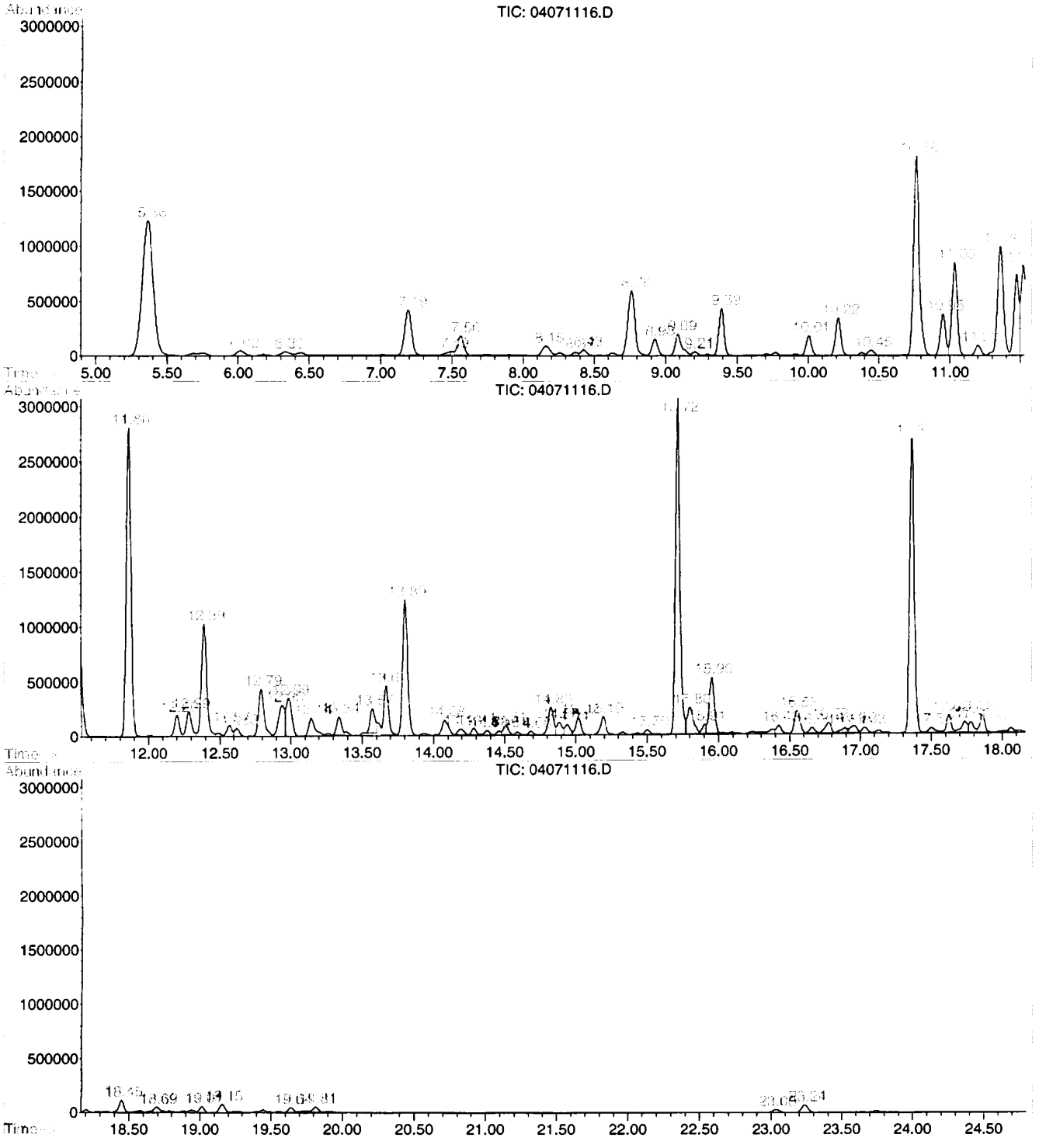
44	14.509	1833	1839	1848	rVB5	83232	204638	2.88%	0.279%
45	14.682	1865	1872	1880	rBV3	37194	86625	1.22%	0.118%
46	14.828	1886	1900	1906	rBV	253773	684418	9.64%	0.934%
47	14.881	1906	1910	1917	rVV3	118064	311109	4.38%	0.425%
48	14.943	1917	1922	1928	rVV2	97260	238234	3.35%	0.325%
49	15.017	1929	1936	1948	rVB2	156924	398356	5.61%	0.544%
50	15.189	1955	1969	1980	rBV3	165652	445174	6.27%	0.608%
51	15.503	2021	2029	2039	rVB	40898	99074	1.39%	0.135%
52	15.717	2058	2070	2080	rBV	3073753	7102377	100.00%	9.696%
53	15.801	2081	2086	2099	rVV	241948	694277	9.78%	0.948%
54	15.906	2099	2106	2107	rVV2	81591	142183	2.00%	0.194%
55	15.953	2108	2115	2125	rVB	509895	1228270	17.29%	1.677%
56	16.423	2200	2205	2219	rVB	78452	184296	2.59%	0.252%
57	16.549	2219	2229	2241	rBV2	210947	586071	8.25%	0.800%
58	16.659	2241	2250	2260	rBV3	53566	139006	1.96%	0.190%
59	16.774	2260	2272	2281	rVB5	97211	288984	4.07%	0.395%
60	16.889	2281	2294	2298	rBV6	45496	137146	1.93%	0.187%
61	16.957	2300	2307	2315	rVV6	62084	185453	2.61%	0.253%
62	17.030	2315	2321	2331	rVB7	49481	129936	1.83%	0.177%
63	17.370	2366	2386	2401	rBV	2698554	6183002	87.06%	8.441%
64	17.501	2403	2411	2425	rVV6	49604	164079	2.31%	0.224%
65	17.621	2426	2434	2443	rVV2	161227	370015	5.21%	0.505%
66	17.736	2443	2456	2460	rVV2	102931	308047	4.34%	0.421%
67	17.778	2461	2464	2472	rVV	97409	214734	3.02%	0.293%
68	17.856	2472	2479	2495	rVB	164824	407654	5.74%	0.557%
69	18.060	2511	2518	2527	rBV5	31382	72607	1.02%	0.099%
70	18.447	2578	2592	2603	rBV	115048	276460	3.89%	0.377%
71	18.693	2623	2639	2651	rBV9	46506	167813	2.36%	0.229%
72	19.012	2693	2700	2711	rVB3	58548	136641	1.92%	0.187%
73	19.154	2714	2727	2738	rBV3	77557	221052	3.11%	0.302%
74	19.640	2812	2820	2827	rBV3	45336	111859	1.57%	0.153%
75	19.813	2846	2853	2862	rVB	46333	110024	1.55%	0.150%
76	23.029	3458	3468	3480	rBV5	24360	75692	1.07%	0.103%
77	23.238	3494	3508	3520	rBV4	69121	222038	3.13%	0.303%

Sum of corrected areas: 73249662

04071116.D 040711V1.M Thu Apr 14 16:00:00 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071116.D
Operator : Michael Truchan/Rachel Hill
Acquired : 7 Apr 2011 11:49 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-012A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 15
Quant File :040711V1.RES (RTE Integrator)



04071116.D 040711V1.M Thu Apr 14 16:00:01 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071116.D
Acq On : 7 Apr 2011 11:49 pm
Sample : 1103609-012A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	16.80 ppbv	6768860	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Acetic acid, [(aminocarbonyl)amino]	132	C3H4N2O4	000585-05-7	3
5	Octodrine $$ 2-Heptanamine, 6-methy	129	C8H19N	000543-82-8	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	3.51 ppbv	1413310	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	38
5	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	12

****

Peak Number 3 Pentane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	1.31 ppbv	526136	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	86
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	59
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	2(3H)-Furanone, dihydro-4-methyl-	100	C5H8O2	001679-49-8	40

Data File : C:\HPCHEM\1\DATA\040711\04071116.D Vial: 15
Acq On : 7 Apr 2011 11:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	5.10 ppbv	2054140	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	86
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	80
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59

****

Peak Number 5 Pentane, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	1.66 ppbv	668698	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	40

****

Peak Number 6 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	1.19 ppbv	480759	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Data File : C:\HPCHEM\1\DATA\040711\04071116.D Vial: 15
Acq On : 7 Apr 2011 11:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	2.31 ppbv	929794	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	90
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	64

****

Peak Number 8 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	2.47 ppbv	996853	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 9 Pentane, 2,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	5.79 ppbv	2981900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	78
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	78

Data File : C:\HPCHEM\1\DATA\040711\04071116.D
Acq On : 7 Apr 2011 11:49 pm
Sample : 1103609-012A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Trichloroethylene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	0.89 ppbv	457564	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroethylene	130	C2HCl3	000079-01-6	98
2	Trichloroethylene $$ Ethene, trichl	130	C2HCl3	000079-01-6	98
3	Trichloroethylene	130	C2HCl3	000079-01-6	38
4	1H-Tetrazaborole, 5-chloro-4,5-dihy	132	C2H6BClN4	021960-49-6	27
5	Benzene, 1-chloro-4-fluoro-	130	C6H4ClF	000352-33-0	22

****

Peak Number 11 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	1.15 ppbv	591973	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	64
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
3	Ether, heptyl hexyl	200	C13H28O	007289-40-9	50
4	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	43
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	42

****

Peak Number 12 Cyclohexane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	5.15 ppbv	2655980	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Data File : C:\HPCHEM\1\DATA\040711\04071116.D Vial: 15
Acq On : 7 Apr 2011 11:49 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	2.30 ppbv	1183690	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	72
2	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	64
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
4	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	56
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	56

****

Peak Number 14 Heptane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	1.66 ppbv	856697	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	76
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	74
4	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	50

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	1.68 ppbv	865773	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	59
3	Ether, hexyl pentyl $$ Hexane, 1-(p	172	C11H24O	032357-83-8	38
4	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	36
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	36

Data File : C:\HPCHEM\1\DATA\040711\04071116.D
Acq On : 7 Apr 2011 11:49 pm
Sample : 1103609-012A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	1.01 ppbv	518517	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	59
3	Heptane, 3,4,5-trimethyl- $$ 3,4,5-	142	C10H22	020278-89-1	53
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	47

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	1.10 ppbv	568389	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

****

Peak Number 18 Octane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.95 ppbv	1002770	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
5	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	72

Data File : C:\HPCHEM\1\DATA\040711\04071116.D
Acq On : 7 Apr 2011 11:49 pm
Sample : 1103609-012A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, ethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.20 ppbv	684418	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	83

****

Peak Number 20 Benzene, 1,2-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.55	1.03 ppbv	586071	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	95
2	Benzene, 1,2-dimethyl-	106	C8H10	000095-47-6	94
3	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	94
4	Benzene, 1,2-dimethyl- $$ o-Dimethy	106	C8H10	000095-47-6	94
5	p-Xylene	106	C8H10	000106-42-3	94

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 7 Apr 2011 11:49 pm
Data File: C:\HPCHEM\1\DATA\040711\04071116.D
Name: 1103609-012A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	16.8	ppbv	6768860	ISTD01	10.76	5037750	12.5
Butane, 2-methyl-	7.19	3.5	ppbv	1413310	ISTD01	10.76	5037750	12.5
Pentane	7.56	1.3	ppbv	526136	ISTD01	10.76	5037750	12.5
Pentane, 2-methyl-	8.76	5.1	ppbv	2054140	ISTD01	10.76	5037750	12.5
Pentane, 3-methyl-	9.09	1.7	ppbv	668698	ISTD01	10.76	5037750	12.5
Pentane, 2,4-dimethy	10.01	1.2	ppbv	480759	ISTD01	10.76	5037750	12.5
Cyclopentane, methyl	10.22	2.3	ppbv	929794	ISTD01	10.76	5037750	12.5
Pentane, 2,3-dimethy	10.95	2.5	ppbv	996853	ISTD01	10.76	5037750	12.5
Pentane, 2,2,4-trime	11.36	5.8	ppbv	2981900	ISTD02	11.86	6442190	12.5
Trichloroethylene	12.20	0.9	ppbv	457564	ISTD02	11.86	6442190	12.5
Hexane, 2,4-dimethyl	12.29	1.1	ppbv	591973	ISTD02	11.86	6442190	12.5
Cyclohexane, methyl-	12.39	5.2	ppbv	2655980	ISTD02	11.86	6442190	12.5
Pentane, 2,3,4-trime	12.79	2.3	ppbv	1183690	ISTD02	11.86	6442190	12.5
Heptane, 2-methyl-	12.95	1.7	ppbv	856697	ISTD02	11.86	6442190	12.5
Pentane, 2,3,4-trime	12.99	1.7	ppbv	865773	ISTD02	11.86	6442190	12.5
Heptane, 3-methyl-	13.14	1.0	ppbv	518517	ISTD02	11.86	6442190	12.5
Cyclohexane, 1,3-dim	13.57	1.1	ppbv	568389	ISTD02	11.86	6442190	12.5
Octane	13.67	1.9	ppbv	1002770	ISTD02	11.86	6442190	12.5
Cyclohexane, ethyl-	14.83	1.2	ppbv	684418	ISTD03	15.72	7102380	12.5
Benzene, 1,2-dimethy	16.55	1.0	ppbv	586071	ISTD03	15.72	7102380	12.5

04071116.D 040711V1.M Thu Apr 14 16:00:01 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071117.D
Acq On : 8 Apr 2011 12:29 am
Sample : 1103609-013A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: CLME.P
Quant Time: Apr 8 10:38 2011

Vial: 16
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	783679	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2580164	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1964618	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1239696	12.57	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.56%				
Target Compounds							Qvalue
20) n-Hexane*	9.39	57	3715770	33.67	ppbv		100
29) Cyclohexane	11.04	56	6059841	54.81	ppbv	#	82
31) Benzene*	11.48	78	4028004	22.90	ppbv		95
34) Heptane*	11.52	43	3032687	25.79	ppbv	#	92
41) Toluene*	13.80	91	2238973	12.55	ppbv		99
50) Ethylbenzene*	15.80	91	229846	1.12	ppbv		94
51) m,p-Xylene *	15.95	91	378328	2.41	ppbv		93

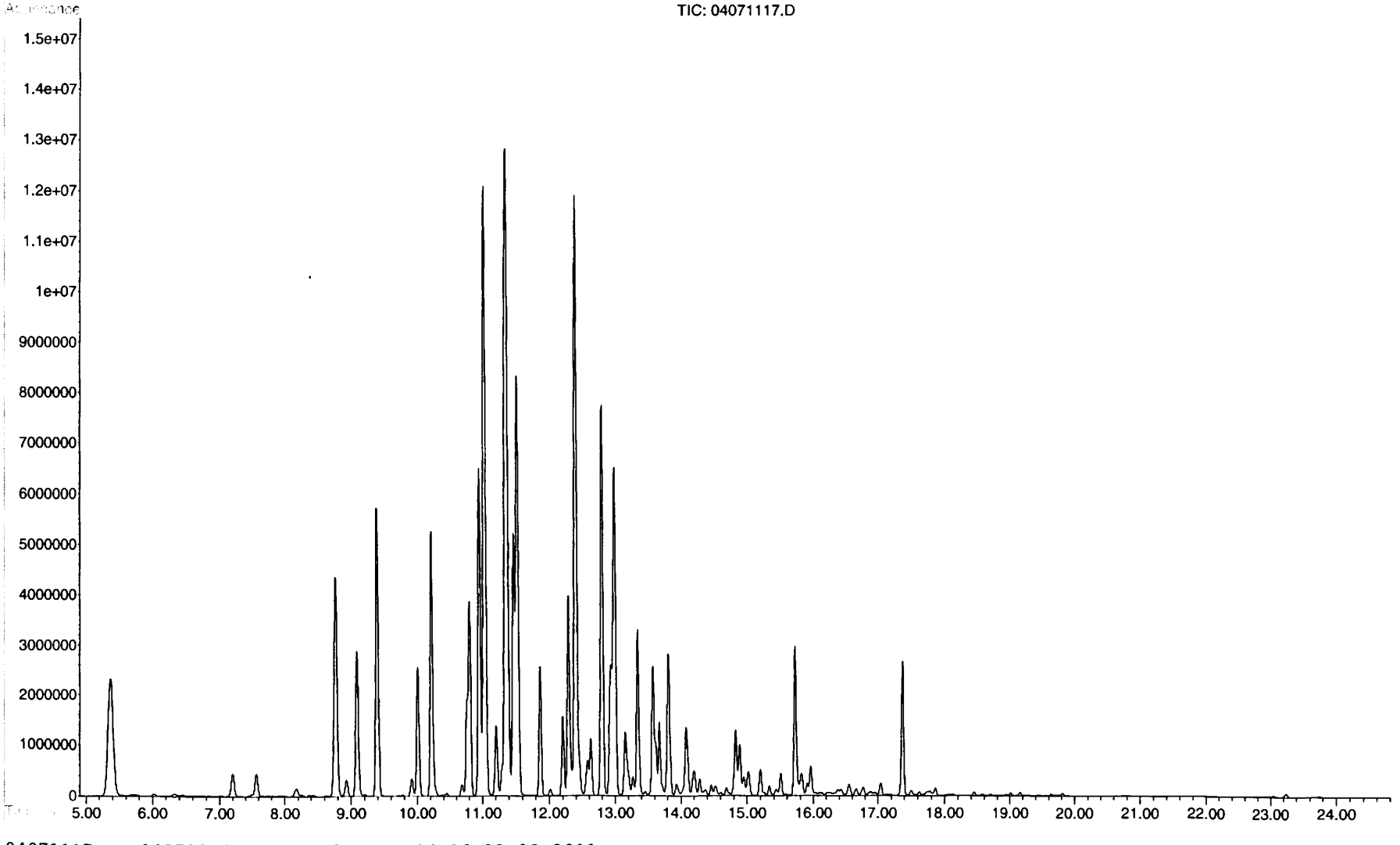
*= reported only 4/15/11 AP

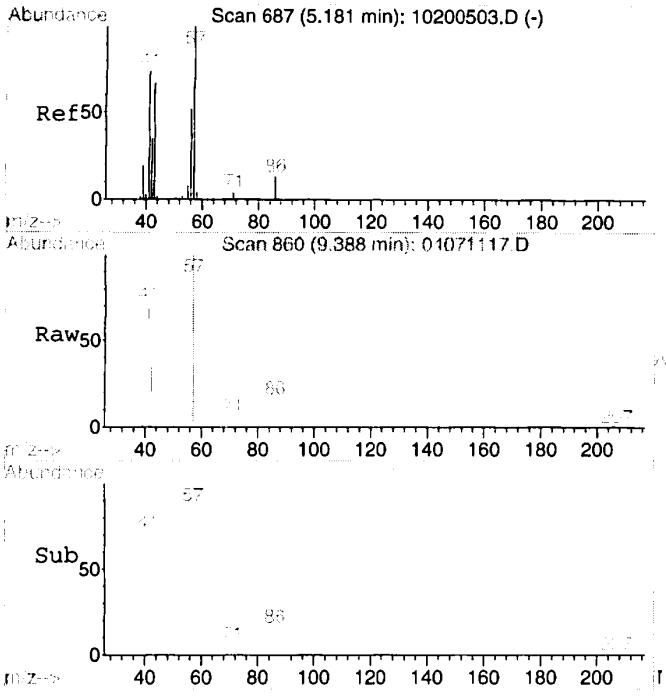
(#) = qualifier out of range (m) = manual integration
04071117.D 040711V1.M Thu Apr 14 16:00:07 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:38 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

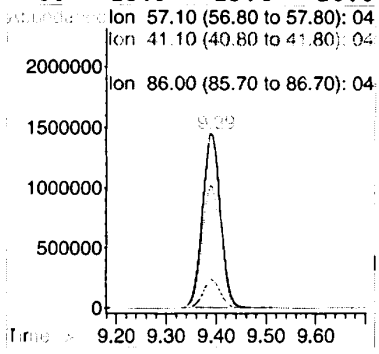


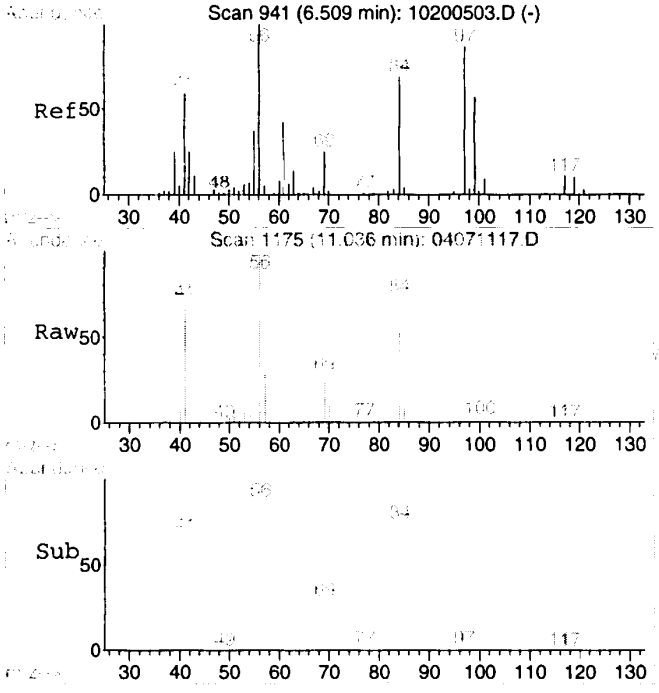


#20
n-Hexane
Concen: 33.67 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 57 Resp: 3715770

Ion	Ratio	Lower	Upper
57	100		
41	71.6	57.2	85.8
53	2.4	1.8	2.8
86	15.9	13.4	20.0

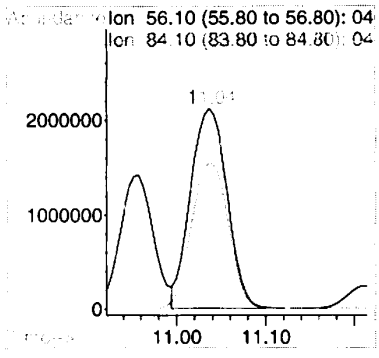


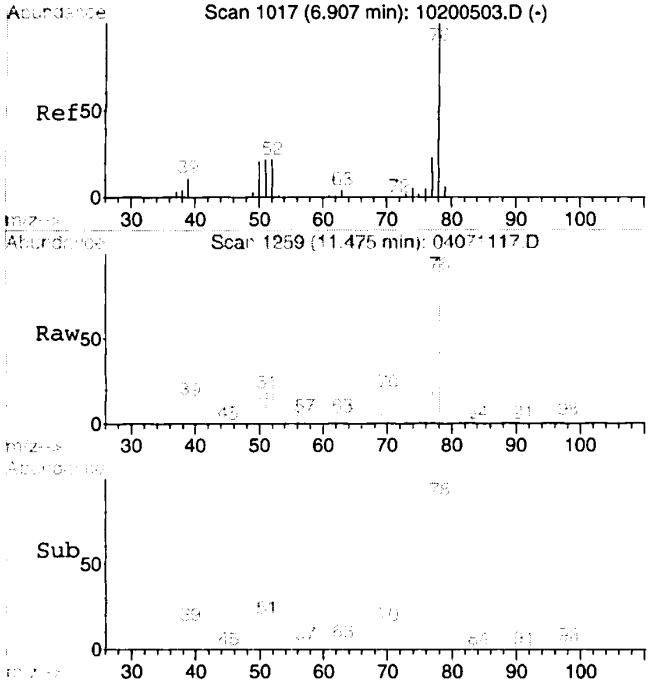


#29
Cyclohexane
Concen: 54.81 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 56 Resp: 6059841

Ion	Ratio	Lower	Upper
56	100		
84	74.1	72.4	108.6
41	68.4	43.8	65.8#

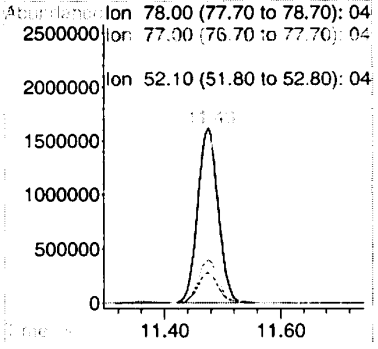


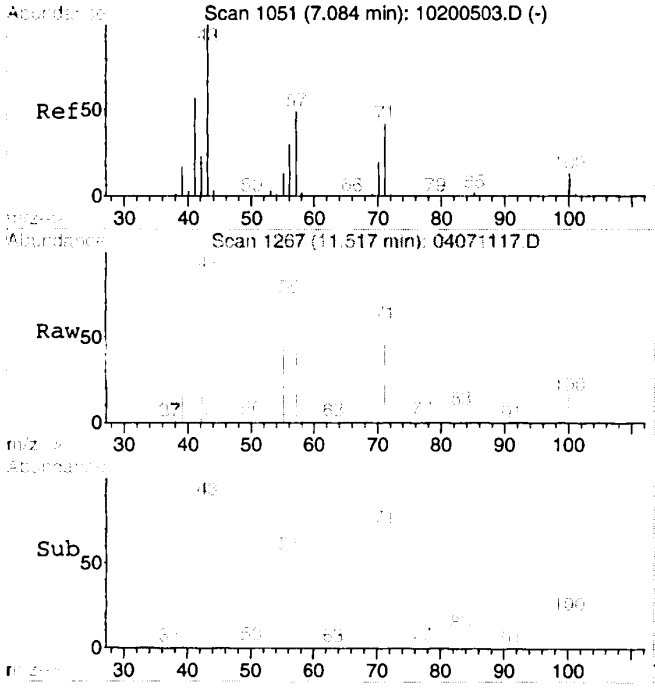


#31
Benzene
Concen: 22.90 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 78 Resp: 4028004

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	19.9	0.0	36.1
52	18.2	0.0	36.0

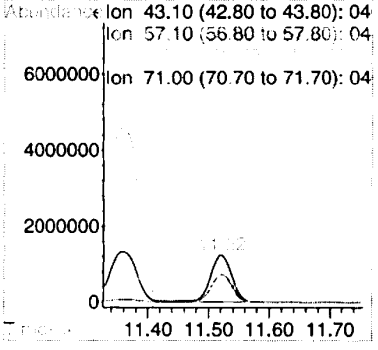


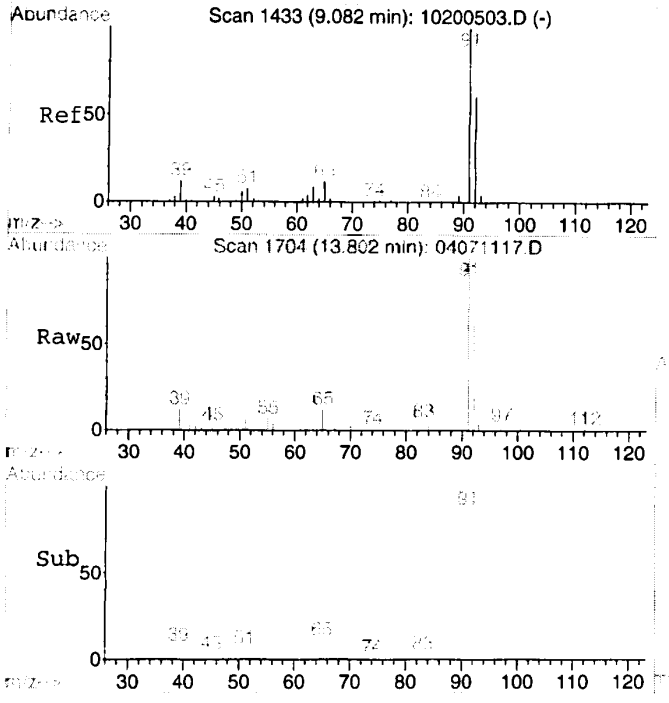


#34
Heptane
Concen: 25.79 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 43 Resp: 3032687

Ion	Ratio	Lower	Upper
43	100		
57	60.4	42.2	63.4
100	15.2	17.3	25.9#
71	57.5	48.3	72.5

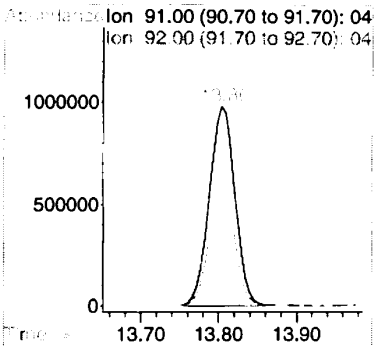


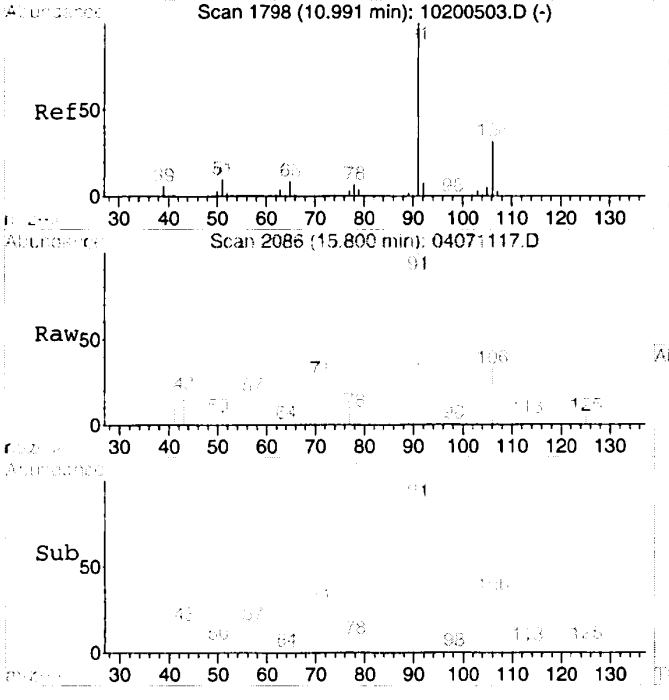


#41
Toluene
Concen: 12.55 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 91 Resp: 2238973

Ion	Ratio	Lower	Upper
91	100		
92	60.0	40.5	80.5
65	12.1	0.0	31.2

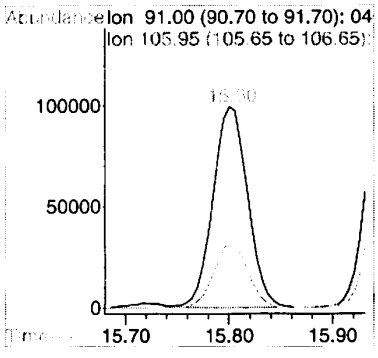


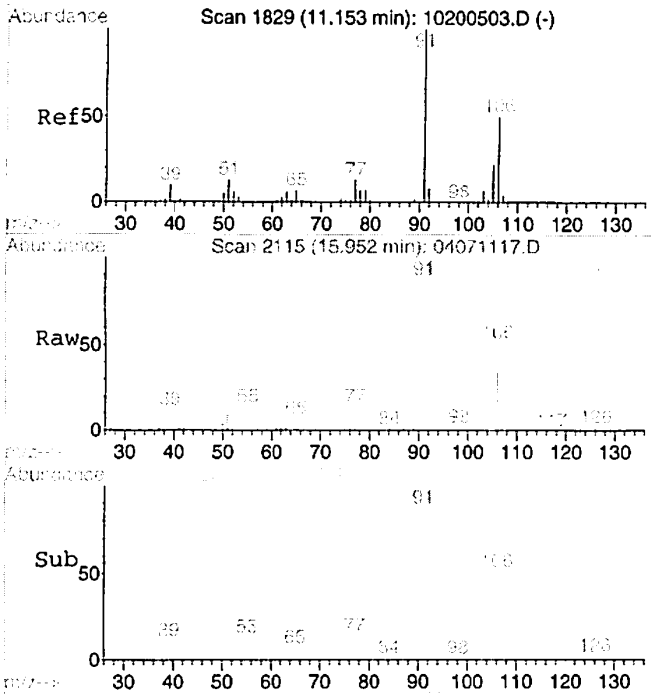


#50
Ethylbenzene
Concen: 1.12 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 91 Resp: 229846

Ion	Ratio	Lower	Upper
91	100		
106	31.3	14.9	54.9
51	11.5	0.0	33.1

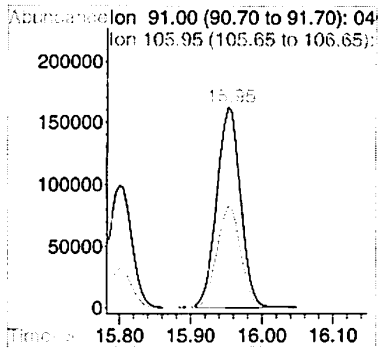




#51
m,p-Xylene
Concen: 2.41 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04071117.D
Acq: 8 Apr 2011 12:29 am

Tgt Ion: 91 Resp: 378328

Ion	Ratio	Lower	Upper
91	100		
106	50.3	35.6	75.6
51	11.4	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.366	62	91	136	rBV	2322588	12929226	28.20%	3.224%
2	7.192	426	440	456	rBV	447610	1488832	3.25%	0.371%
3	7.563	501	511	529	rVB2	444937	1399580	3.05%	0.349%
4	8.170	614	627	639	rBV6	151803	563186	1.23%	0.140%
5	8.771	724	742	761	rBV2	4366377	13407686	29.24%	3.343%
6	8.928	762	772	787	rVB2	324643	946524	2.06%	0.236%
7	9.090	788	803	819	rBV	2883912	8109422	17.68%	2.022%
8	9.388	848	860	883	rVB	5730433	14617527	31.88%	3.645%
9	9.911	946	960	968	rBV2	345503	954130	2.08%	0.238%
10	10.005	968	978	997	rVB	2569214	6788857	14.80%	1.693%
11	10.215	1004	1018	1042	rBV	5275039	14306235	31.20%	3.567%
12	10.685	1096	1108	1114	rBV	231082	617605	1.35%	0.154%
13	10.806	1114	1131	1145	rVV2	3889313	13776827	30.04%	3.435%
14	10.952	1146	1159	1166	rVV	6506522	16936119	36.93%	4.223%
15	11.036	1166	1175	1196	rVV2	12104349	34276405	74.75%	8.547%
16	11.208	1196	1208	1217	rVV	1389438	3760759	8.20%	0.938%
17	11.360	1217	1237	1250	rVV	12837513	45855304	100.00%	11.434%
18	11.470	1250	1258	1263	rVV2	5224924	13585021	29.63%	3.387%
19	11.522	1263	1268	1297	rVB4	8338400	21840323	47.63%	5.446%
20	11.862	1322	1333	1349	rVV	2573665	5854051	12.77%	1.460%
21	12.202	1386	1398	1405	rBV	1582793	3790996	8.27%	0.945%
22	12.286	1405	1414	1424	rVV	3993492	10400790	22.68%	2.593%
23	12.390	1424	1434	1457	rVV	11901642	34182763	74.54%	8.523%
24	12.573	1457	1469	1473	rVV2	692521	2013132	4.39%	0.502%
25	12.620	1473	1478	1490	rVB	1136049	2762365	6.02%	0.689%
26	12.798	1494	1512	1526	rBV2	7760212	20304598	44.28%	5.063%
27	12.934	1526	1538	1541	rVV4	2582182	6990822	15.25%	1.743%
28	12.987	1542	1548	1568	rVB	6521525	18004429	39.26%	4.489%
29	13.149	1568	1579	1595	rBV3	1253548	4459460	9.73%	1.112%
30	13.269	1595	1602	1607	rVV	346685	833074	1.82%	0.208%
31	13.342	1607	1616	1631	rVB	3284056	8164422	17.80%	2.036%
32	13.572	1644	1660	1673	rBV2	2562400	8411953	18.34%	2.097%
33	13.672	1673	1679	1693	rVV	1417299	3295439	7.19%	0.822%
34	13.808	1693	1705	1720	rVB2	2814977	8038243	17.53%	2.004%
35	13.928	1720	1728	1740	rBV4	219521	648008	1.41%	0.162%
36	14.080	1740	1757	1769	rBV4	1325035	4218878	9.20%	1.052%
37	14.200	1769	1780	1790	rVV3	435447	1313393	2.86%	0.327%
38	14.284	1790	1796	1803	rVV	274418	531459	1.16%	0.133%
39	14.456	1821	1829	1835	rBV	212171	486789	1.06%	0.121%
40	14.524	1835	1842	1850	rVV4	191754	555984	1.21%	0.139%
41	14.686	1864	1873	1886	rBV4	159585	467512	1.02%	0.117%
42	14.828	1886	1900	1906	rVV	1303431	3672122	8.01%	0.916%
43	14.885	1906	1911	1918	rVV2	1018541	2533125	5.52%	0.632%

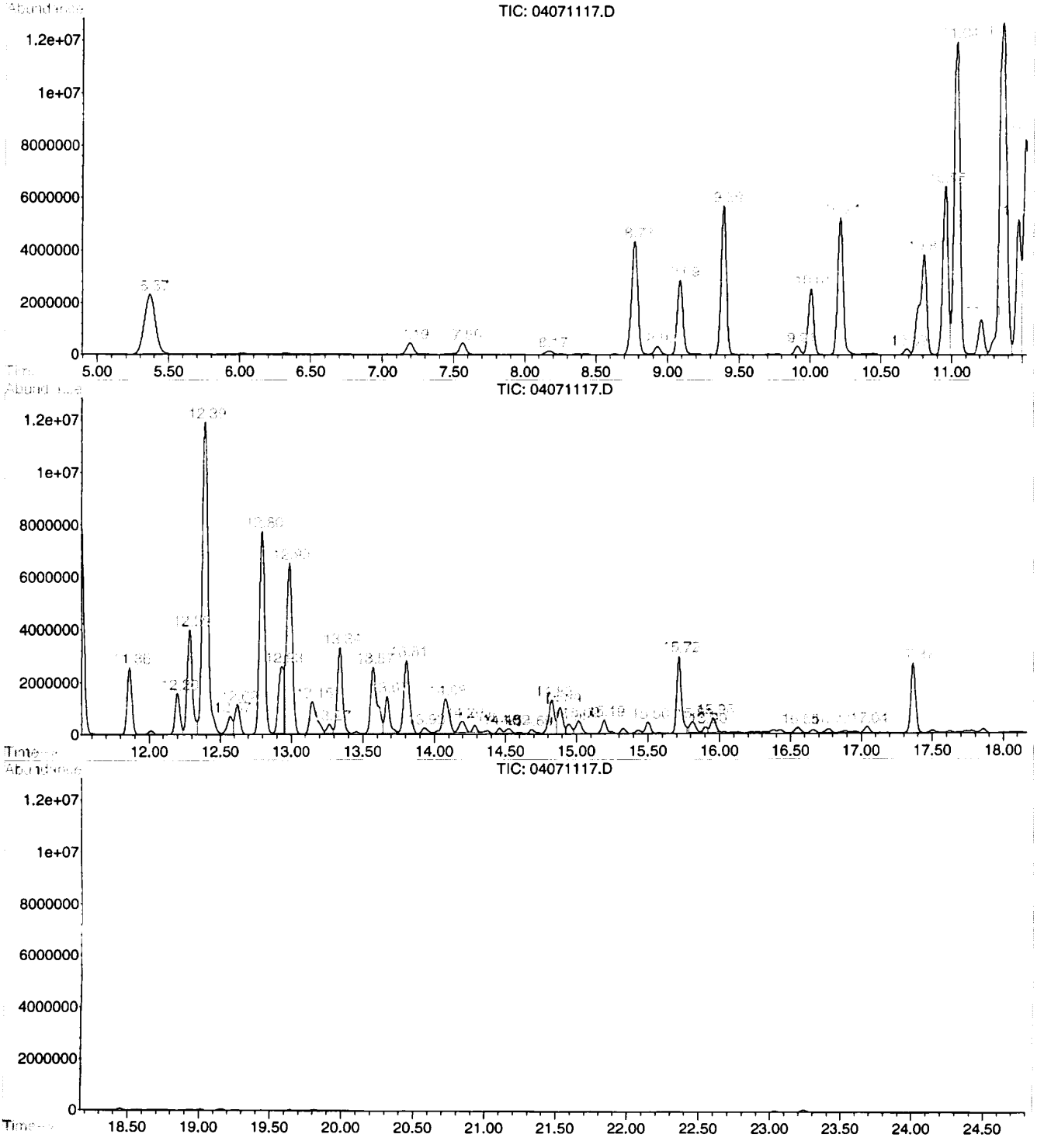
44	14.948	1919	1923	1929	rVV4	374041	894465	1.95%	0.223%
45	15.016	1929	1936	1952	rVB4	489686	1420971	3.10%	0.354%
46	15.194	1957	1970	1979	rBV2	534067	1353327	2.95%	0.337%
47	15.502	2021	2029	2038	rVB	434698	1029553	2.25%	0.257%
48	15.717	2058	2070	2081	rBV	2973078	7255800	15.82%	1.809%
49	15.811	2083	2088	2098	rVV3	425118	1187489	2.59%	0.296%
50	15.905	2098	2106	2109	rVV	214543	462485	1.01%	0.115%
51	15.957	2109	2116	2126	rVB	545037	1390786	3.03%	0.347%
52	16.554	2219	2230	2241	rVB3	214998	619036	1.35%	0.154%
53	16.773	2260	2272	2281	rVB4	158135	479292	1.05%	0.120%
54	17.040	2314	2323	2334	rVB2	247299	640576	1.40%	0.160%
55	17.369	2363	2386	2399	rBV	2679912	6223003	13.57%	1.552%

Sum of corrected areas: 401050158

04071117.D 040711V1.M Thu Apr 14 16:00:13 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071117.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 12:29 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-013A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 16
Quant File :040711V1.RES (RTE Integrator)



04071117.D 040711V1.M Thu Apr 14 16:00:14 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	11.73 ppbv	12929200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- $$ Isohexan Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	12.17 ppbv	13407700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	7.36 ppbv	8109420	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	6.16 ppbv	6788860	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 5 Cyclopentane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	12.98 ppbv	14306200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

****

Peak Number 6 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	15.37 ppbv	16936100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Hexane, 2,2-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	97.91 ppbv	45855300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64
5	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	64

****

Peak Number 8 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	8.09 ppbv	3791000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	93
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	76
3	1-Pyrrolidinecarboxaldehyde $$ N-Fo	99	C5H9NO	003760-54-1	47
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	46
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	46

****

Peak Number 9 Hexane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	22.21 ppbv	10400800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	46
3	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	43
4	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	40
5	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	37

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	72.99 ppbv	34182800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 11 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	5.90 ppbv	2762370	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	91
2	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	72
3	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	50
4	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	50
5	Cyclobutane, 2-ethyl-1-methyl-3-pro	140	C10H20	061233-72-5	50

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	43.36 ppbv	20304600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	14.93 ppbv	6990820	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
2	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	59
3	Pyrrolidine	71	C4H9N	000123-75-1	59
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	59
5	Heptane, 4-methyl-	114	C8H18	000589-53-7	59

****

Peak Number 14 Pentane, 2,3,3-trimethyl- $$ 2 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	38.44 ppbv	18004400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl- $$ 2,3,3-	114	C8H18	000560-21-4	72
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	59
3	Heptane, 3,3,4-trimethyl- $$ 3,3,4-	142	C10H22	020278-87-9	45
4	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	45
5	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	45

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	9.52 ppbv	4459460	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	81
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	72
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	58

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	17.43 ppbv	8164420	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	17.96 ppbv	8411950	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 18 Heptane, 2,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	7.04 ppbv	3295440	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	83
5	Octane	114	C8H18	000111-65-9	81

Data File : C:\HPCHEM\1\DATA\040711\04071117.D Vial: 16
Acq On : 8 Apr 2011 12:29 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	7.27 ppbv	4218880	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87

****

Peak Number 20 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	6.33 ppbv	3672120	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 12:29 am
Data File: C:\HPCHEM\1\DATA\040711\04071117.D
Name: 1103609-013A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.37	11.7	ppbv	12929200	ISTD01	10.76	13776800	12.5
Pentane, 2-methyl- $	8.77	12.2	ppbv	13407700	ISTD01	10.76	13776800	12.5
Pentane, 3-methyl-	9.09	7.4	ppbv	8109420	ISTD01	10.76	13776800	12.5
Pentane, 2,4-dimethy	10.01	6.2	ppbv	6788860	ISTD01	10.76	13776800	12.5
Cyclopentane, methyl	10.21	13.0	ppbv	14306200	ISTD01	10.76	13776800	12.5
Pentane, 2,3-dimethy	10.95	15.4	ppbv	16936100	ISTD01	10.76	13776800	12.5
Hexane, 2,2-dimethyl	11.36	97.9	ppbv	45855300	ISTD02	11.86	5854050	12.5
Hexane, 2,5-dimethyl	12.20	8.1	ppbv	3791000	ISTD02	11.86	5854050	12.5
Hexane, 2,4-dimethyl	12.29	22.2	ppbv	10400800	ISTD02	11.86	5854050	12.5
Cyclohexane, methyl-	12.39	73.0	ppbv	34182800	ISTD02	11.86	5854050	12.5
Cyclopentane, 1,2,4-	12.62	5.9	ppbv	2762370	ISTD02	11.86	5854050	12.5
Pentane, 2,3,4-trime	12.80	43.4	ppbv	20304600	ISTD02	11.86	5854050	12.5
Hexane, 2,3-dimethyl	12.93	14.9	ppbv	6990820	ISTD02	11.86	5854050	12.5
Pentane, 2,3,3-trime	12.99	38.4	ppbv	18004400	ISTD02	11.86	5854050	12.5
Heptane, 3-methyl-	13.15	9.5	ppbv	4459460	ISTD02	11.86	5854050	12.5
Hexane, 2,2,5-trimet	13.34	17.4	ppbv	8164420	ISTD02	11.86	5854050	12.5
Cyclohexane, 1,3-dim	13.57	18.0	ppbv	8411950	ISTD02	11.86	5854050	12.5
Heptane, 2,4-dimethy	13.67	7.0	ppbv	3295440	ISTD02	11.86	5854050	12.5
Cyclohexane, 1,2-dim	14.08	7.3	ppbv	4218880	ISTD03	15.72	7255800	12.5
Cyclohexane, ethyl-	14.83	6.3	ppbv	3672120	ISTD03	15.72	7255800	12.5

04071117.D 040711V1.M Thu Apr 14 16:00:15 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:40 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	716359	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2164284	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	2153703	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1437288	13.29	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 106.32%				
Target Compounds							Qvalue
2) Propylene*	5.68	41	254046	4.59	ppbv		94
20) n-Hexane	9.39	57	14472416	143.48	ppbv	#	95
29) Cyclohexane* AP	11.04	56	12352820	122.23	ppbv	#	86
31) Benzene	11.48	78	9089668	56.54	ppbv		92
34) Heptane	11.53	43	7332798	74.34	ppbv	#	88
41) Toluene	13.81	91	13091227	87.49	ppbv		86
50) Ethylbenzene*	15.80	91	990520	4.41	ppbv		95
51) m,p-Xylene *	15.95	91	1535694	8.94	ppbv		94
52) o-Xylene *	16.55	91	454009	2.63	ppbv	#	88

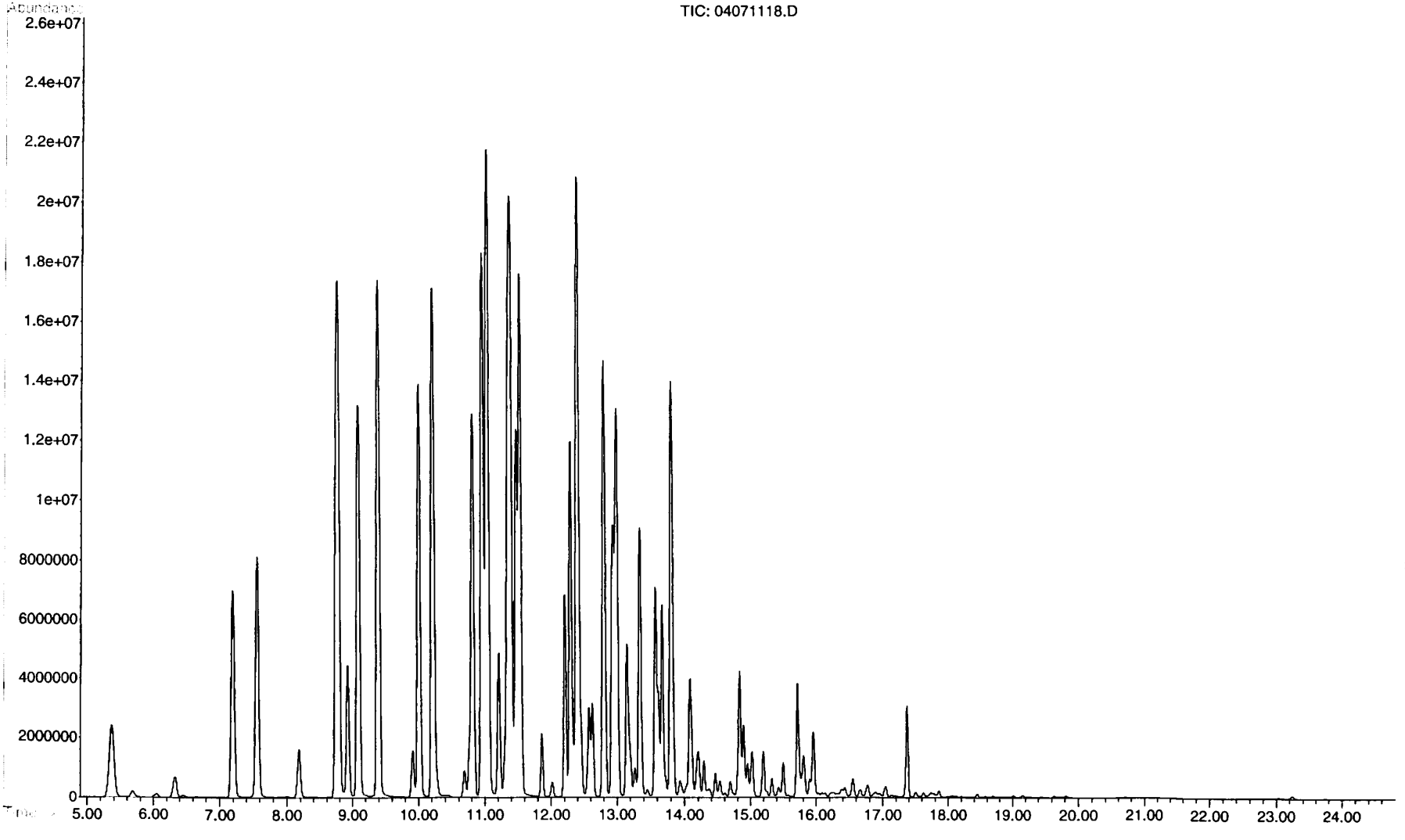
* = reported only 4/15/11 AP

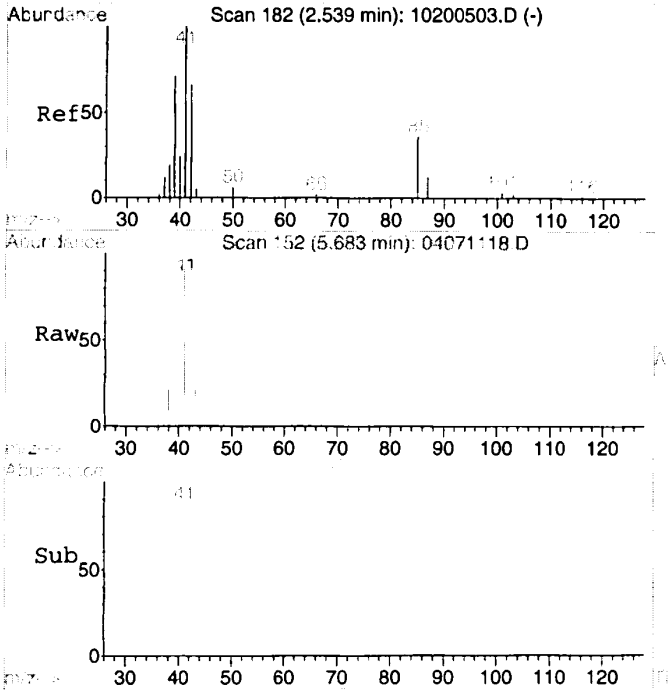
(#) = qualifier out of range (m) = manual integration
04071118.D 040711V1.M Thu Apr 14 16:00:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:40 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

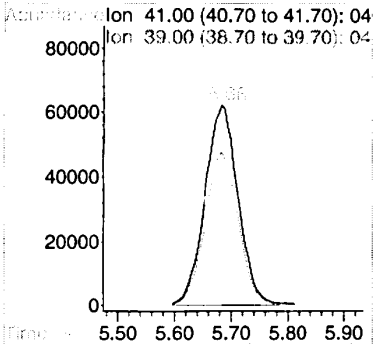


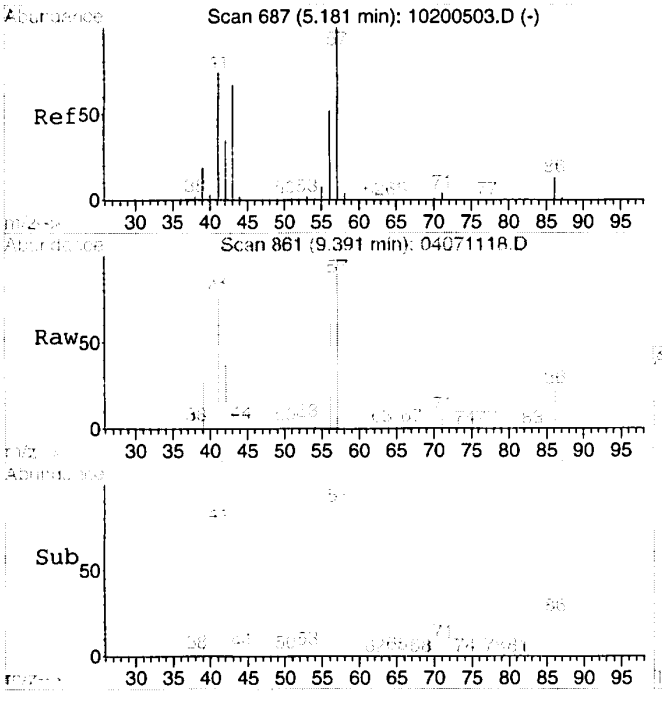


#2
Propylene
Concen: 4.59 ppbv
RT: 5.68 min Scan# 152
Delta R.T. -0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 41 Resp: 254046

Ion	Ratio	Lower	Upper
41	100		
39	76.7	57.6	86.4
42	62.4	54.0	81.0

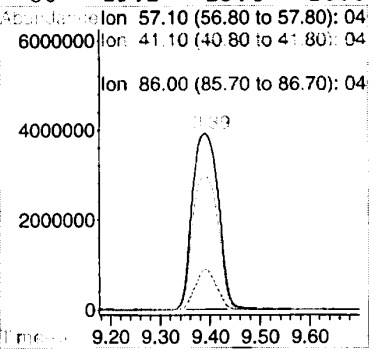


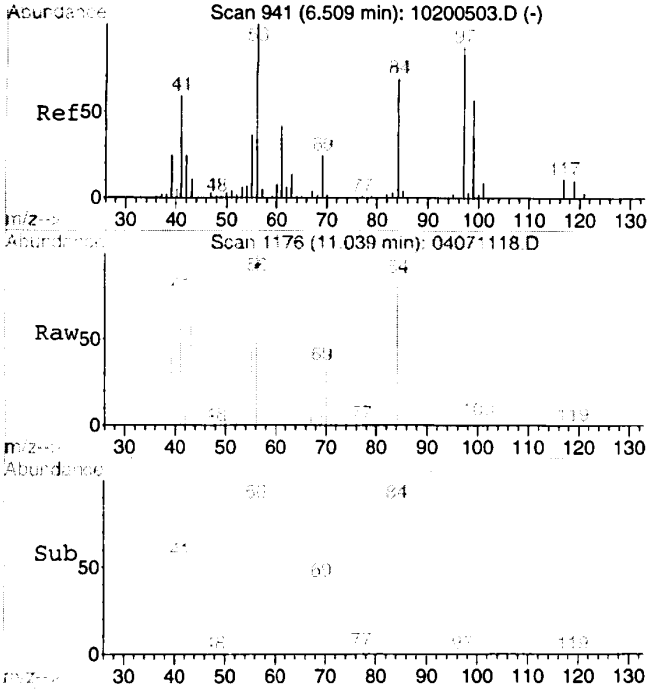


#20
n-Hexane
Concen: 143.48 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 57 Resp:14472416

Ion	Ratio	Lower	Upper
57	100		
41	75.2	57.2	85.8
53	3.5	1.8	2.8#
86	19.2	13.4	20.0

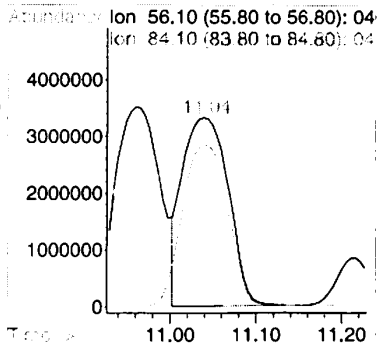


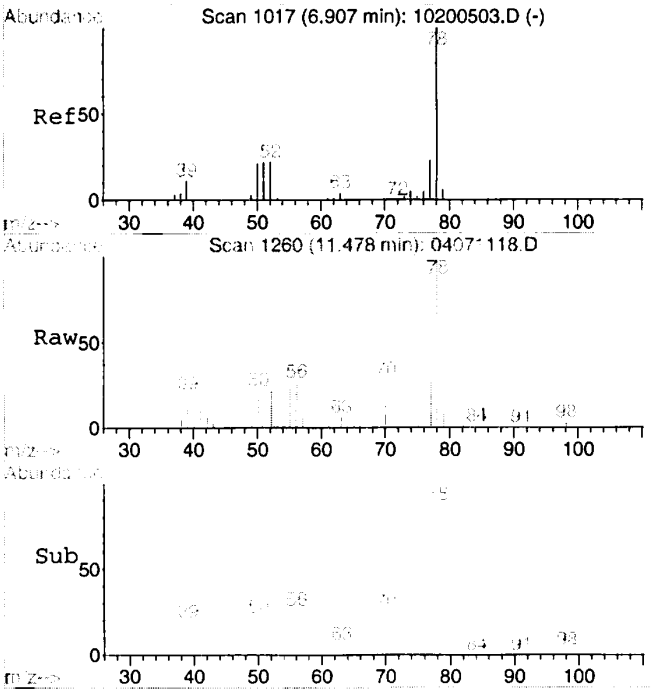


#29
Cyclohexane
Concen: 122.23 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 56 Resp:12352820

Ion	Ratio	Lower	Upper
56	100		
84	85.6	72.4	108.6
41	75.2	43.8	65.8#

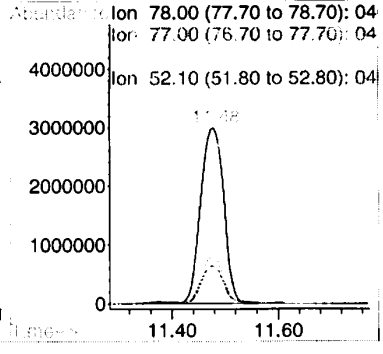


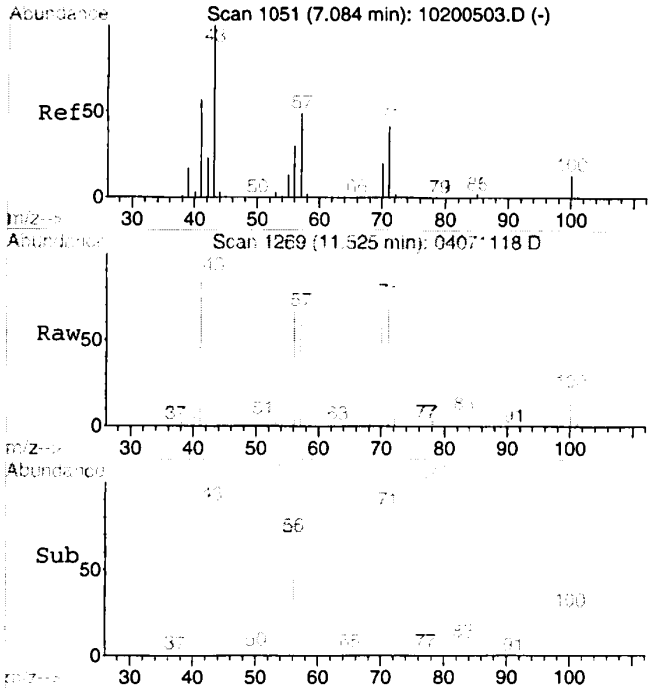


#31
Benzene
Concen: 56.54 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 78 Resp: 9089668

Ion	Ratio	Lower	Upper
78	100		
77	25.0	3.7	43.7
51	21.2	0.0	36.1
52	21.5	0.0	36.0

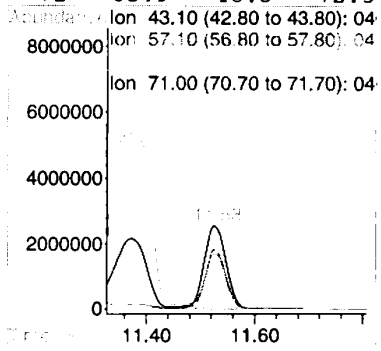


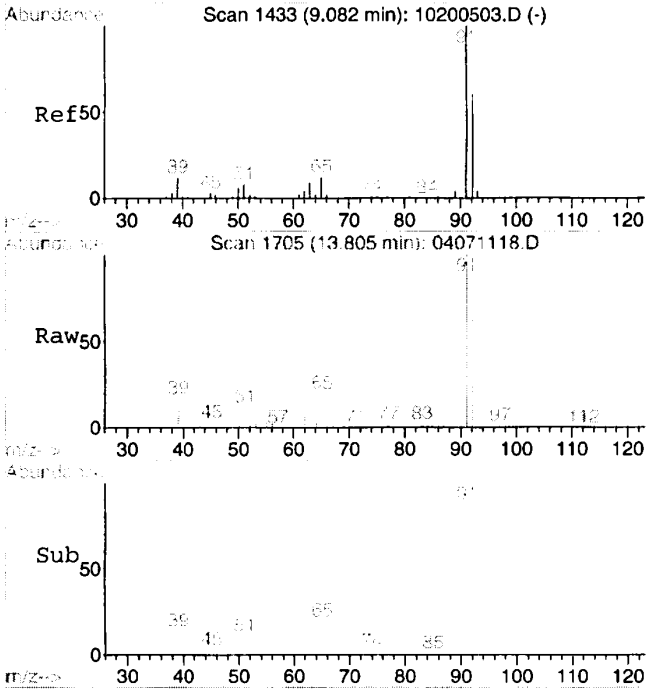


#34
Heptane
Concen: 74.34 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 43 Resp: 7332798

Ion	Ratio	Lower	Upper
43	100		
57	65.8	42.2	63.4#
100	17.8	17.3	25.9
71	65.9	48.3	72.5

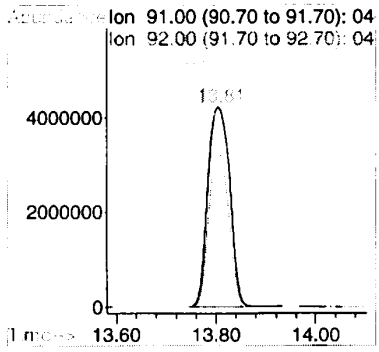


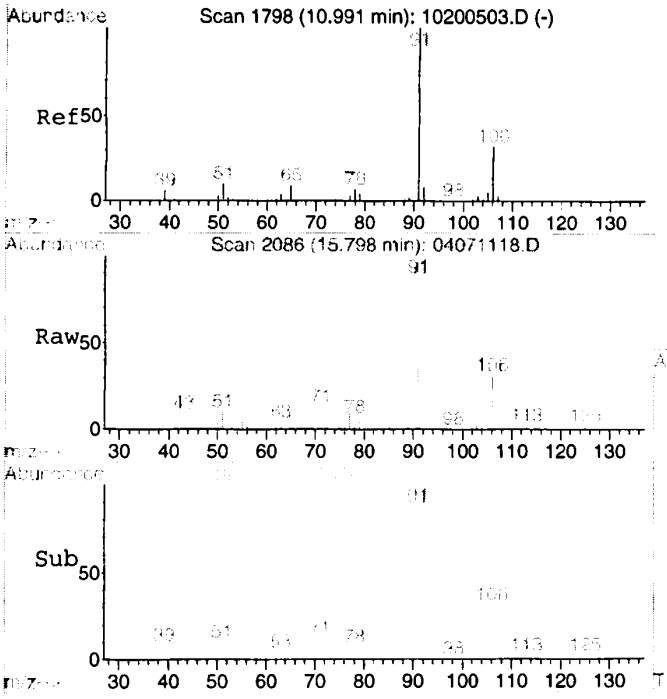


#41
Toluene
Concen: 87.49 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 91 Resp:13091227

Ion	Ratio	Lower	Upper
91	100		
92	71.1	40.5	80.5
65	16.6	0.0	31.2

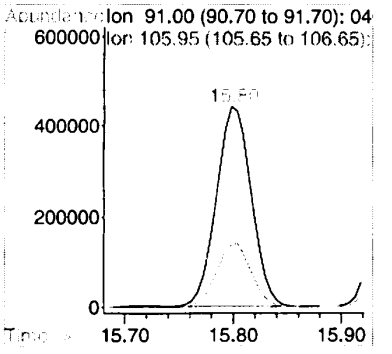


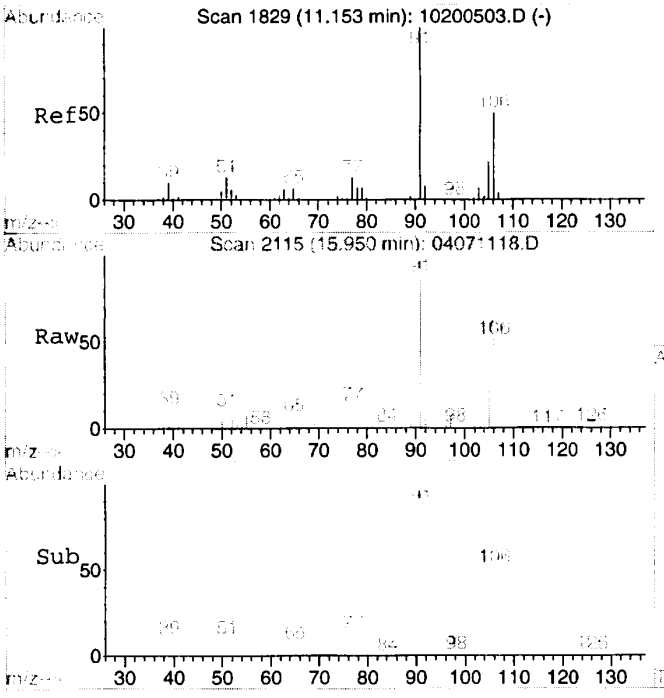


#50
Ethylbenzene
Concen: 4.41 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 91 Resp: 990520

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	11.0	0.0	33.1

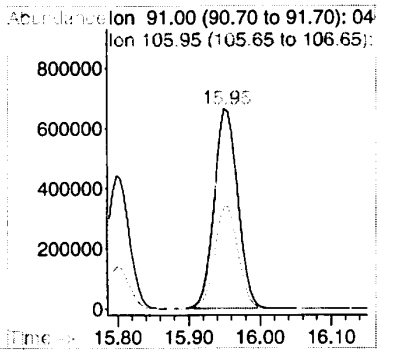


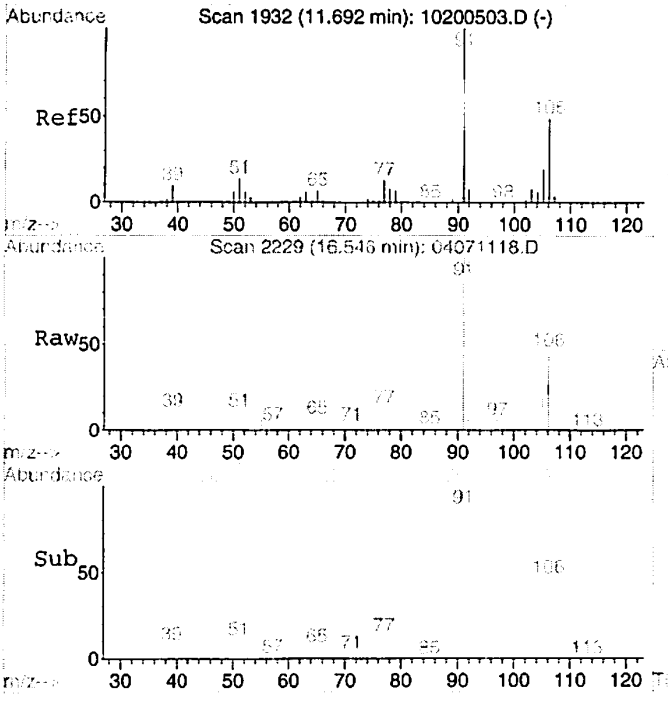


#51
m,p-Xylene
Concen: 8.94 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 91 Resp: 1535694

Ion	Ratio	Lower	Upper
91	100		
106	50.7	35.6	75.6
51	10.6	0.0	29.6

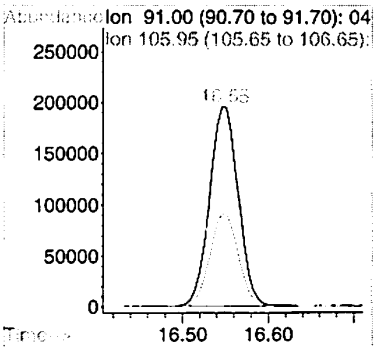




#52
o-Xylene
Concen: 2.63 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04071118.D
Acq: 8 Apr 2011 1:09 am

Tgt Ion: 91 Resp: 454009

Ion	Ratio	Lower	Upper
91	100		
106	46.9	41.0	61.6
51	13.4	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	62	91	134	rBV	2424486	12829092	13.45%	1.044%
2	5.683	135	152	181	rVB4	213624	985694	1.03%	0.080%
3	6.332	256	276	290	rBV4	703850	2920952	3.06%	0.238%
4	7.189	421	440	469	rBV	7015938	25034261	26.24%	2.038%
5	7.561	485	511	541	rBV	8137076	27574923	28.90%	2.244%
6	8.178	613	629	656	rBV	1644398	5385800	5.65%	0.438%
7	8.769	723	742	760	rBV4	17419452	77359334	81.08%	6.296%
8	8.926	761	772	788	rVB	4412389	13096508	13.73%	1.066%
9	9.088	789	803	822	rBV	13174642	45855519	48.06%	3.732%
10	9.391	847	861	895	rVB	17397619	61547086	64.51%	5.009%
11	9.914	947	961	968	rBV	1577304	4462489	4.68%	0.363%
12	10.008	968	979	1004	rVB	13912650	45953572	48.17%	3.740%
13	10.212	1004	1018	1044	rBV	17144971	60180586	63.08%	4.898%
14	10.688	1096	1109	1116	rBV	901515	2558855	2.68%	0.208%
15	10.814	1116	1133	1147	rVV	12939029	44145466	46.27%	3.593%
16	10.960	1147	1161	1168	rVV	18343129	61553165	64.52%	5.010%
17	11.039	1168	1176	1197	rVV2	21798406	78152360	81.92%	6.361%
18	11.216	1198	1210	1219	rVV	4851737	13320799	13.96%	1.084%
19	11.373	1219	1240	1252	rVV2	20227769	95406239	100.00%	7.765%
20	11.478	1252	1260	1264	rVV	12382064	34465228	36.12%	2.805%
21	11.530	1265	1270	1301	rVB4	17611608	49263420	51.64%	4.010%
22	11.860	1322	1333	1345	rVB	2146450	4903234	5.14%	0.399%
23	12.017	1352	1363	1376	rVB	513422	1324047	1.39%	0.108%
24	12.205	1387	1399	1407	rBV	6835107	16820399	17.63%	1.369%
25	12.294	1407	1416	1425	rVV2	11712898	33085337	34.68%	2.693%
26	12.398	1426	1436	1457	rVB2	20808856	75121705	78.74%	6.114%
27	12.576	1457	1470	1474	rBV3	2938346	7724988	8.10%	0.629%
28	12.623	1475	1479	1494	rVB	3166560	7247877	7.60%	0.590%
29	12.801	1498	1513	1526	rBV2	14699624	46143373	48.37%	3.756%
30	12.937	1526	1539	1543	rBV5	9094930	26857743	28.15%	2.186%
31	12.995	1544	1550	1568	rVB	13070778	39678858	41.59%	3.229%
32	13.152	1568	1580	1597	rBV2	5132891	17490042	18.33%	1.424%
33	13.272	1597	1603	1608	rBV	640503	1273930	1.34%	0.104%
34	13.345	1608	1617	1631	rVB	9018263	24870452	26.07%	2.024%
35	13.575	1649	1661	1668	rBV	7059442	20389872	21.37%	1.660%
36	13.675	1674	1680	1694	rVB	6240597	14327805	15.02%	1.166%
37	13.805	1694	1705	1721	rVB	13944775	43446052	45.54%	3.536%
38	13.931	1721	1729	1740	rBV3	480601	1448087	1.52%	0.118%
39	14.083	1748	1758	1770	rVV2	3762584	11037255	11.57%	0.898%
40	14.198	1770	1780	1790	rVB4	1339556	4145186	4.34%	0.337%
41	14.287	1790	1797	1805	rBV	1017758	2091825	2.19%	0.170%
42	14.459	1821	1830	1836	rBV	790218	1803384	1.89%	0.147%
43	14.527	1836	1843	1852	rVV3	501458	1273718	1.34%	0.104%

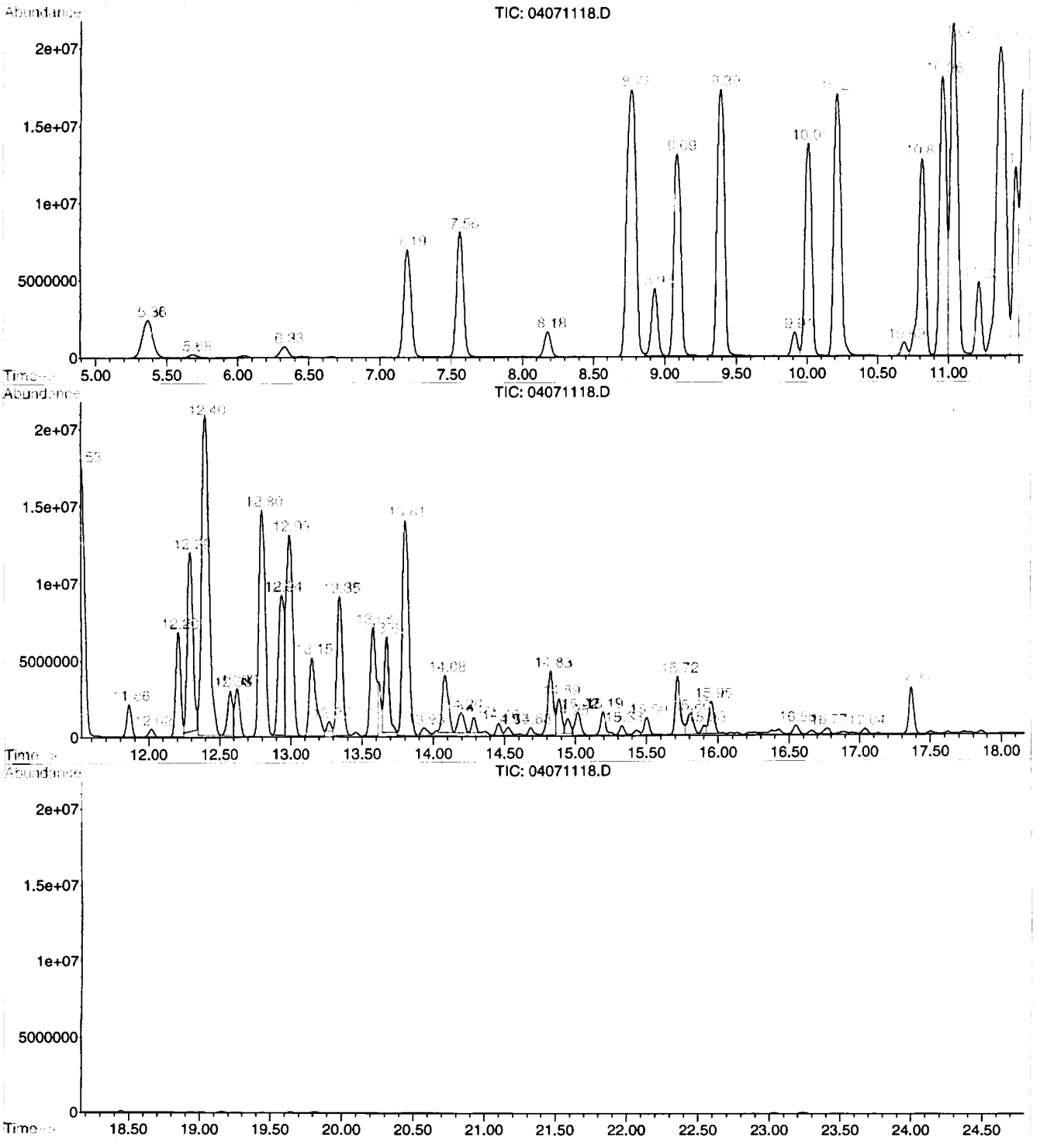
44	14.684	1865	1873	1887	rBV3	513841	1395721	1.46%	0.114%
45	14.830	1887	1901	1907	rBV	4178816	11487707	12.04%	0.935%
46	14.888	1907	1912	1918	rVV	2296524	5353044	5.61%	0.436%
47	14.946	1919	1923	1929	rVV3	995848	2206187	2.31%	0.180%
48	15.019	1930	1937	1954	rVB4	1527162	4211449	4.41%	0.343%
49	15.191	1956	1970	1979	rBV	1543983	3918208	4.11%	0.319%
50	15.327	1988	1996	2006	rBV	613507	1391003	1.46%	0.113%
51	15.500	2021	2029	2039	rVB	1139553	2706963	2.84%	0.220%
52	15.720	2058	2071	2081	rBV	3825200	10063843	10.55%	0.819%
53	15.803	2081	2087	2099	rVV2	1359354	4043386	4.24%	0.329%
54	15.903	2099	2106	2109	rVV2	546862	1147701	1.20%	0.093%
55	15.955	2109	2116	2127	rVB	2103108	5252570	5.51%	0.428%
56	16.546	2219	2229	2241	rVB	601696	1622748	1.70%	0.132%
57	16.766	2260	2271	2281	rVB5	390782	1184823	1.24%	0.096%
58	17.038	2314	2323	2334	rVB2	354888	957231	1.00%	0.078%
59	17.367	2373	2386	2403	rVB	3095336	7146594	7.49%	0.582%

Sum of corrected areas: 1228645695

04071118.D 040711V1.M Thu Apr 14 16:00:28 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071118.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 1:09 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-014A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 17
Quant File :040711V1.RES (RTE Integrator)



04071118.D 040711V1.M Thu Apr 14 16:00:28 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Pentane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	21.90 ppbv	77359300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	52
4	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	50
5	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	47

****

Peak Number 2 Pentane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	12.98 ppbv	45855500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 3 Pentane, 2,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	13.01 ppbv	45953600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	94
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
3	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	72
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Cyclopentane, methyl- $$ Methy Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	17.04 ppbv	60180600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	94
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	86

****

Peak Number 5 Pentane, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	17.43 ppbv	61553200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	72

****

Peak Number 6 Pentane, 2,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	243.22 ppbv	95406200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
2	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	64
3	Pentanal, 3-methyl- $$ Valeraldehyd	100	C6H12O	015877-57-3	53
4	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	50
5	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	47

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	42.88 ppbv	16820400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	78
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49

****

Peak Number 8 Hexane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	84.35 ppbv	33085300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
3	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
4	Ether, heptyl hexyl	200	C13H28O	007289-40-9	59
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50

****

Peak Number 9 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	191.51 ppbv	75121700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
2	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	80
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	72
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	19.69 ppbv	7724990	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	78
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43

****

Peak Number 11 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	18.48 ppbv	7247880	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	90
2	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	72
3	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	72
4	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	56
5	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	45

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	117.64 ppbv	46143400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Octane, 4,5-dimethyl- $$ 4,5-D Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	68.47 ppbv	26857700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4,5-dimethyl- $$ 4,5-Dimeth	142	C10H22	015869-96-2	78
2	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
3	Pyrrolidine	71	C4H9N	000123-75-1	64
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	59
5	Pentane, 3-ethyl- $$ 3-Ethylpentane	100	C7H16	000617-78-7	59

****

Peak Number 14 Hexane, 2,3,4-trimethyl- $$ 2, Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	101.16 ppbv	39678900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3,4-trimethyl- $$ 2,3,4-T	128	C9H20	000921-47-1	56
2	Octane, 4-methyl-	128	C9H20	002216-34-4	40
3	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	39
4	1-Octene, 3-ethyl-	140	C10H20	074630-08-3	37
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	36

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	44.59 ppbv	17490000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	63.40 ppbv	24870500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	78
4	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	72
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	51.98 ppbv	20389900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 18 Octane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	36.53 ppbv	14327800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72

Data File : C:\HPCHEM\1\DATA\040711\04071118.D Vial: 17
Acq On : 8 Apr 2011 1:09 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	13.71 ppbv	11037300	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	95
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	83
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	81

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	14.27 ppbv	11487700	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 1:09 am
Data File: C:\HPCHEM\1\DATA\040711\04071118.D
Name: 1103609-014A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Pentane, 2-methyl-	8.77	21.9	ppbv	77359300	ISTD01	10.76	44145500	12.5
Pentane, 3-methyl-	9.09	13.0	ppbv	45855500	ISTD01	10.76	44145500	12.5
Pentane, 2,4-dimethy	10.01	13.0	ppbv	45953600	ISTD01	10.76	44145500	12.5
Cyclopentane, methyl	10.21	17.0	ppbv	60180600	ISTD01	10.76	44145500	12.5
Pentane, 2,3-dimethy	10.96	17.4	ppbv	61553200	ISTD01	10.76	44145500	12.5
Pentane, 2,2,4-trime	11.37	243.2	ppbv	95406200	ISTD02	11.86	4903230	12.5
Hexane, 2,5-dimethyl	12.20	42.9	ppbv	16820400	ISTD02	11.86	4903230	12.5
Hexane, 2,4-dimethyl	12.29	84.3	ppbv	33085300	ISTD02	11.86	4903230	12.5
Cyclohexane, methyl-	12.40	191.5	ppbv	75121700	ISTD02	11.86	4903230	12.5
Cyclopentane, ethyl-	12.58	19.7	ppbv	7724990	ISTD02	11.86	4903230	12.5
Cyclopentane, 1,2,4-	12.62	18.5	ppbv	7247880	ISTD02	11.86	4903230	12.5
Pentane, 2,3,4-trime	12.80	117.6	ppbv	46143400	ISTD02	11.86	4903230	12.5
Octane, 4,5-dimethyl	12.94	68.5	ppbv	26857700	ISTD02	11.86	4903230	12.5
Hexane, 2,3,4-trimet	12.99	101.2	ppbv	39678900	ISTD02	11.86	4903230	12.5
Heptane, 3-methyl-	13.15	44.6	ppbv	17490000	ISTD02	11.86	4903230	12.5
Hexane, 2,2,5-trimet	13.35	63.4	ppbv	24870500	ISTD02	11.86	4903230	12.5
Cyclohexane, 1,3-dim	13.58	52.0	ppbv	20389900	ISTD02	11.86	4903230	12.5
Octane	13.67	36.5	ppbv	14327800	ISTD02	11.86	4903230	12.5
Cyclohexane, 1,2-dim	14.08	13.7	ppbv	11037300	ISTD03	15.71	10063800	12.5
Cyclohexane, ethyl-	14.83	14.3	ppbv	11487700	ISTD03	15.71	10063800	12.5

04071118.D 040711V1.M Thu Apr 14 16:00:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:41 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

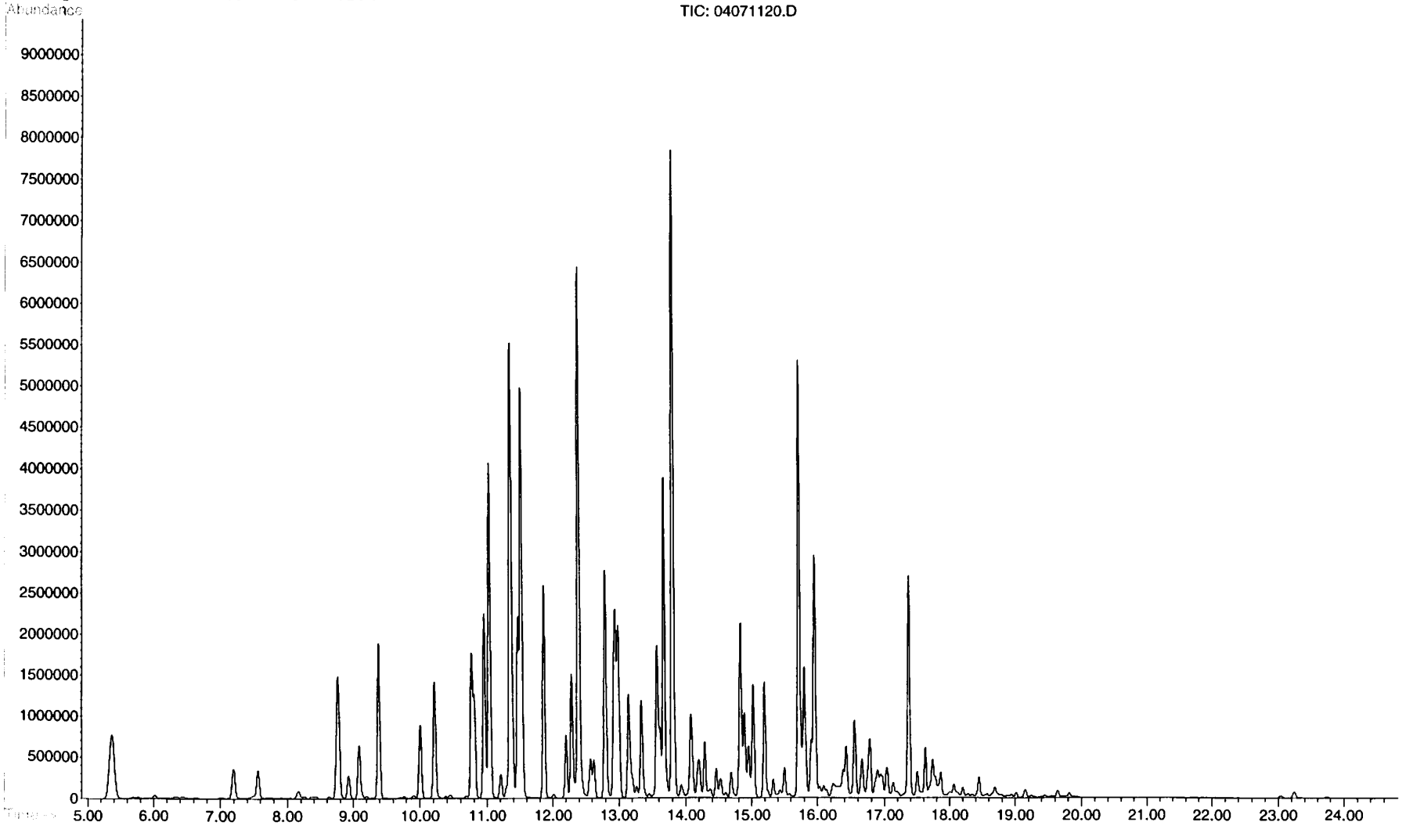
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	765524	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2664208	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2007712	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1243743	12.34	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.72%				
Target Compounds							Qvalue
17) Methylene chloride	8.92	49	130860	1.69	ppbv		92
20) n-Hexane	9.39	57	1209009	11.22	ppbv		97
29) Cyclohexane	11.03	56	1843393	17.07	ppbv	#	78
31) Benzene	11.47	78	1854229	10.79	ppbv		95
34) Heptane	11.52	43	2255705	18.58	ppbv	#	94
41) Toluene	13.80	91	7107671	38.59	ppbv		95
50) Ethylbenzene	15.80	91	1346476	6.43	ppbv		95
51) m,p-Xylene	15.95	91	2031639	12.69	ppbv		94
52) o-Xylene	16.55	91	679490	4.22	ppbv	#	88
59) 1,2,4-Trimethylbenzene	18.44	105	176981	1.15	ppbv		97

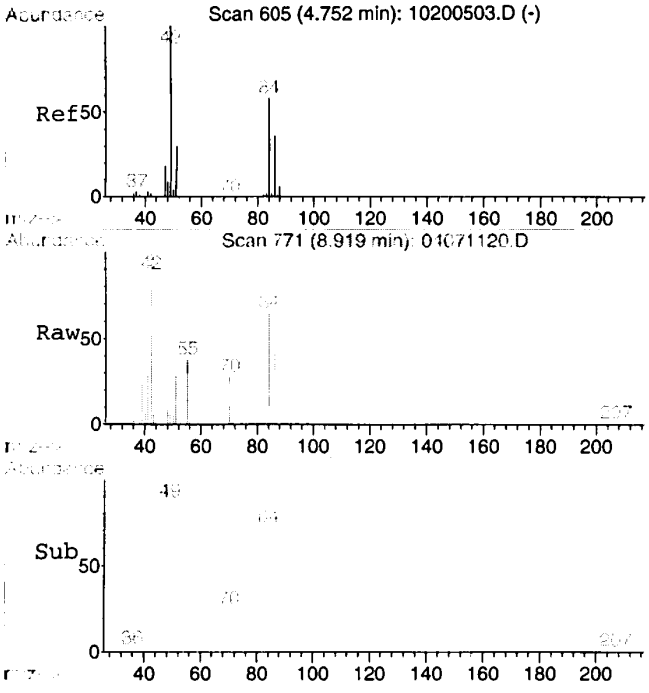
(#) = qualifier out of range (m) = manual integration
04071120.D 040711V1.M Thu Apr 14 16:00:39 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:41 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

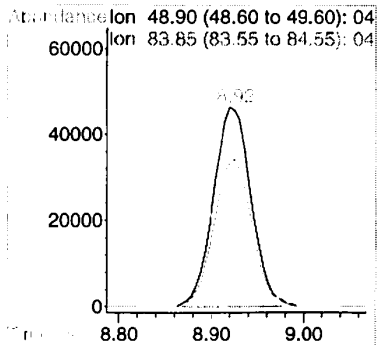


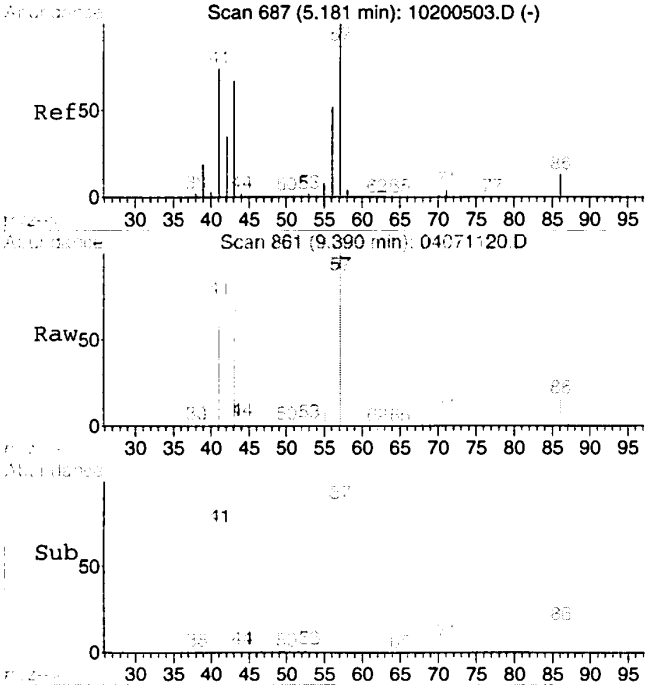


#17
Methylene chloride
Concen: 1.69 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.01 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 49 Resp: 130860

Ion	Ratio	Lower	Upper
49	100		
84	74.3	65.4	98.2
86	47.8	42.3	63.5

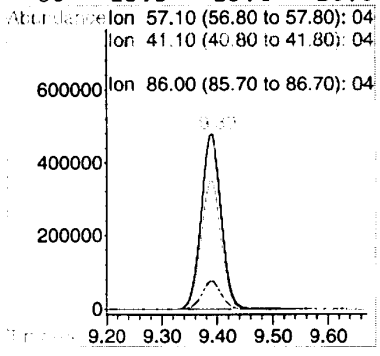


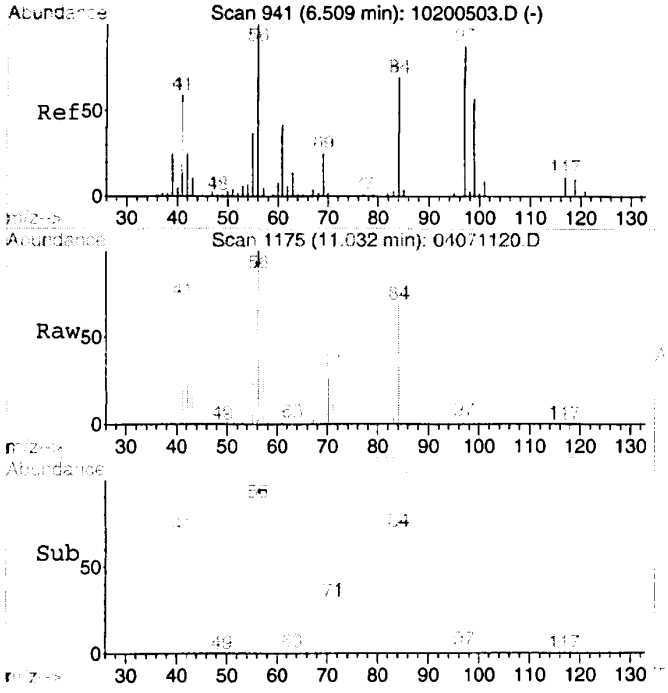


#20
n-Hexane
Concen: 11.22 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 57 Resp: 1209009

Ion	Ratio	Lower	Upper
57	100		
41	73.8	57.2	85.8
53	2.3	1.8	2.8
86	15.5	13.4	20.0

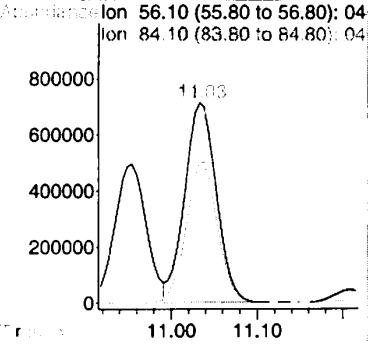


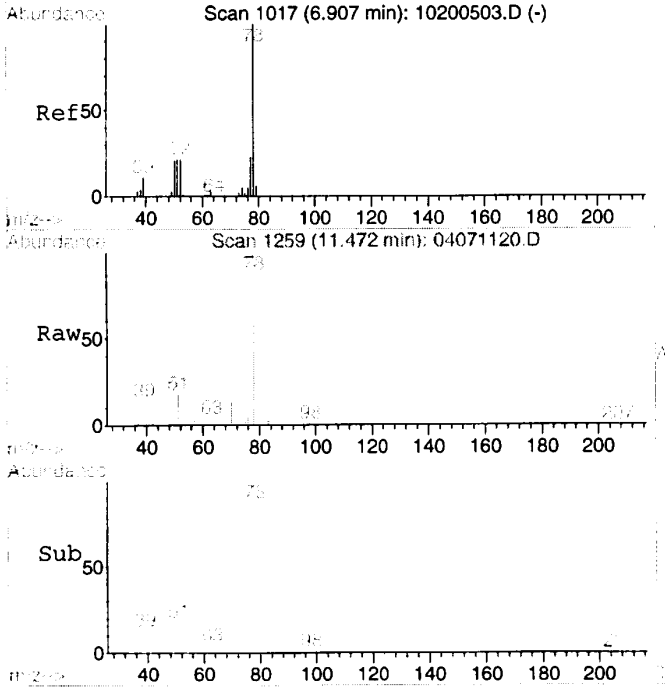


#29
Cyclohexane
Concen: 17.07 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 56 Resp: 1843393

Ion	Ratio	Lower	Upper
56	100		
84	69.7	72.4	108.6#
41	70.6	43.8	65.8#

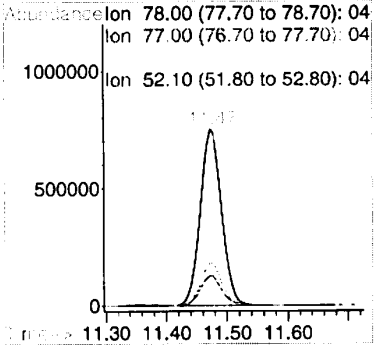


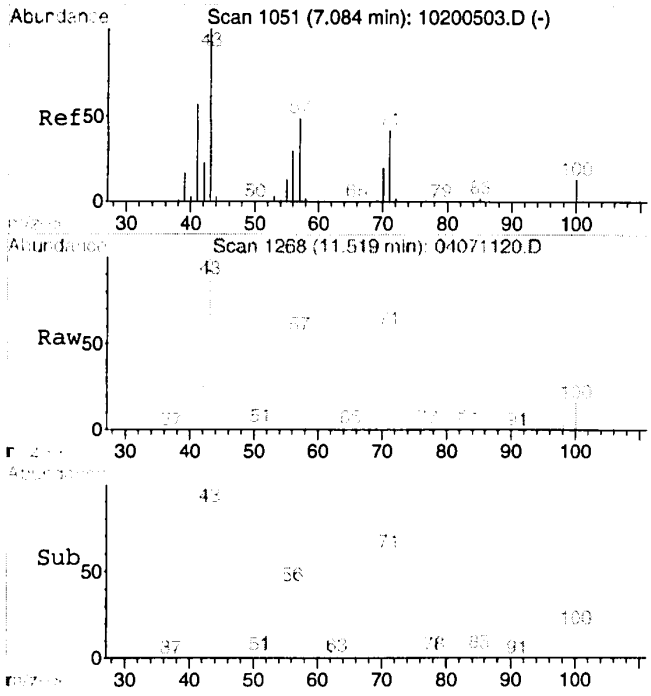


#31
Benzene
Concen: 10.79 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 78 Resp: 1854229

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	20.1	0.0	36.1
52	17.8	0.0	36.0

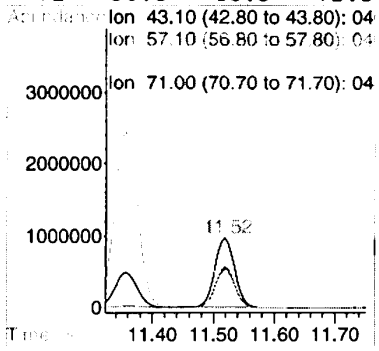


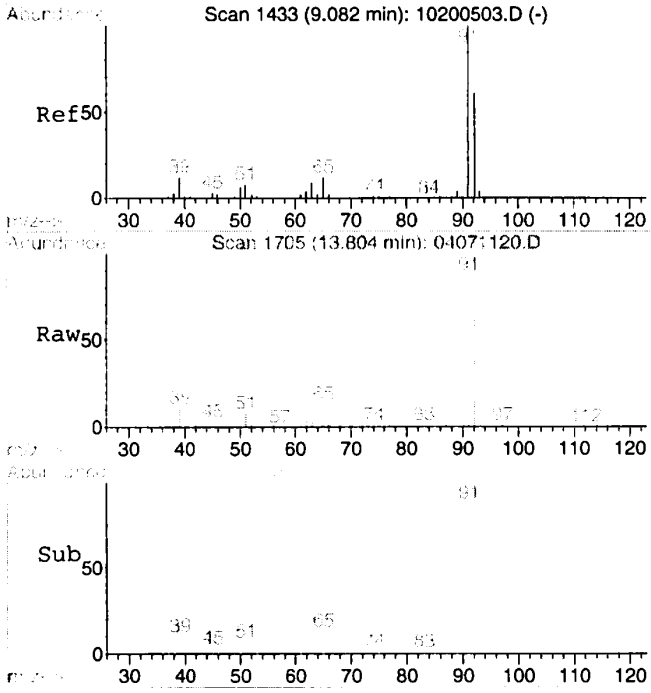


#34
Heptane
Concen: 18.58 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 43 Resp: 2255705

Ion	Ratio	Lower	Upper
43	100		
57	56.3	42.2	63.4
100	15.8	17.3	25.9#
71	56.5	48.3	72.5

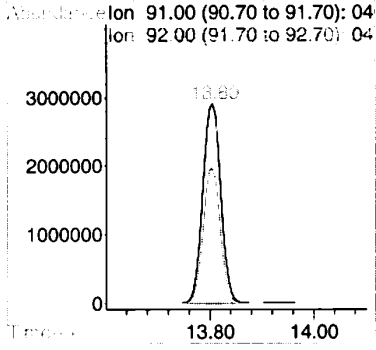


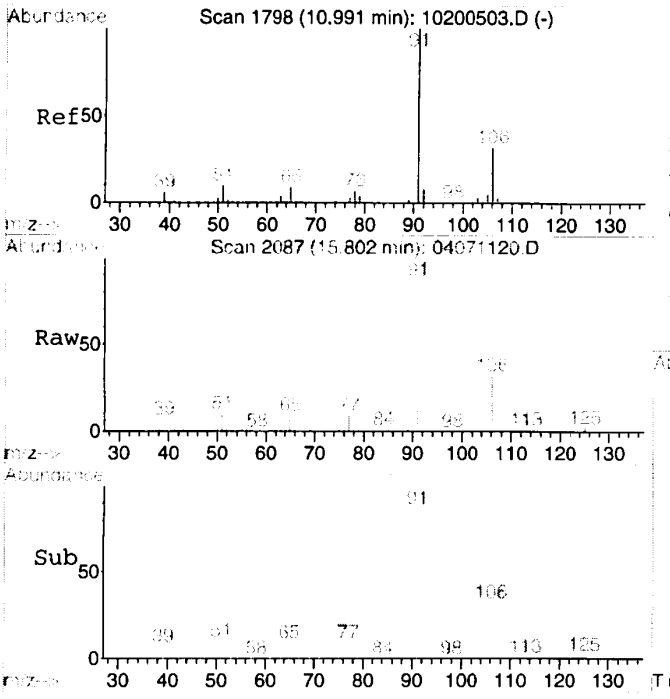


#41
Toluene
Concen: 38.59 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 91 Resp: 7107671

Ion	Ratio	Lower	Upper
91	100		
92	64.5	40.5	80.5
65	12.6	0.0	31.2

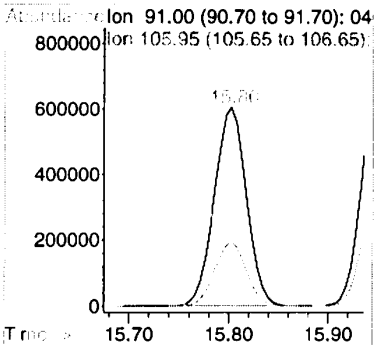


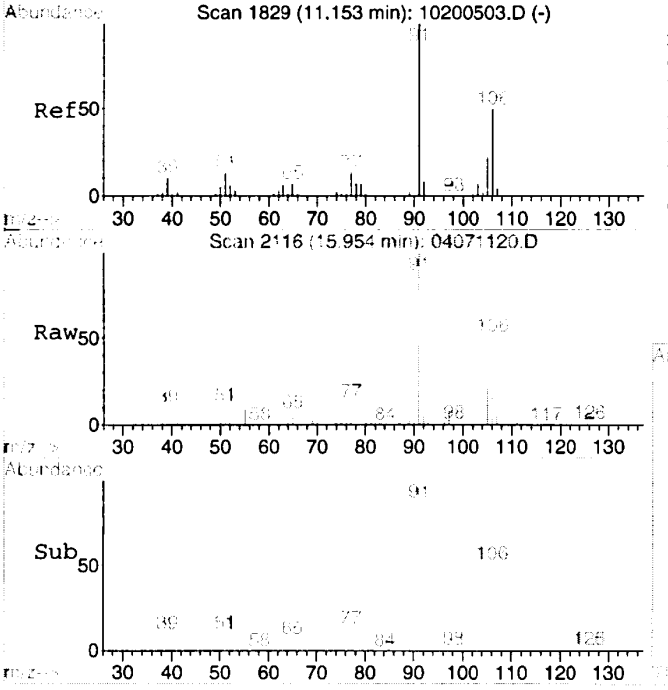


#50
Ethylbenzene
Concen: 6.43 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 91 Resp: 1346476

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.6	0.0	33.1

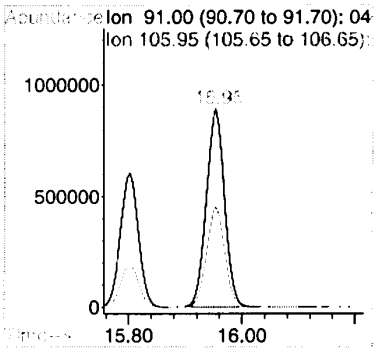


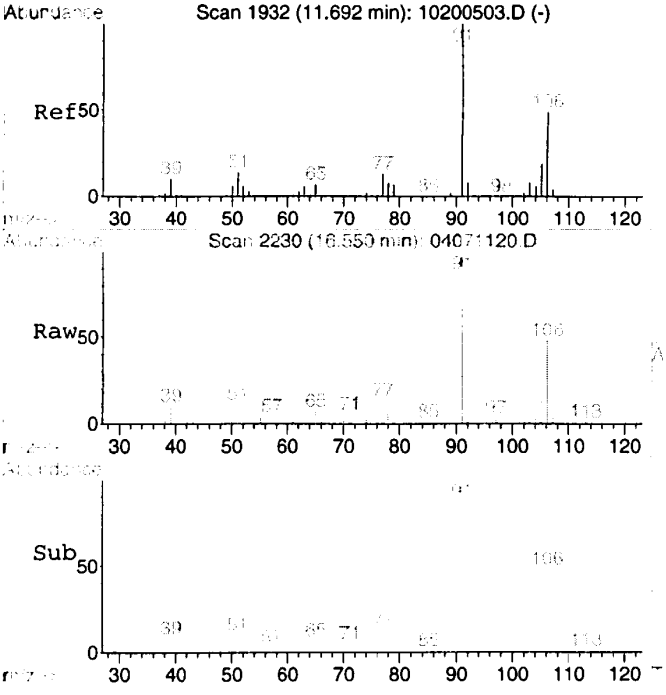


#51
m,p-Xylene
Concen: 12.69 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 91 Resp: 2031639

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	10.6	0.0	29.6

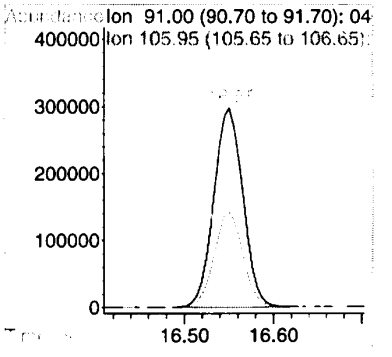


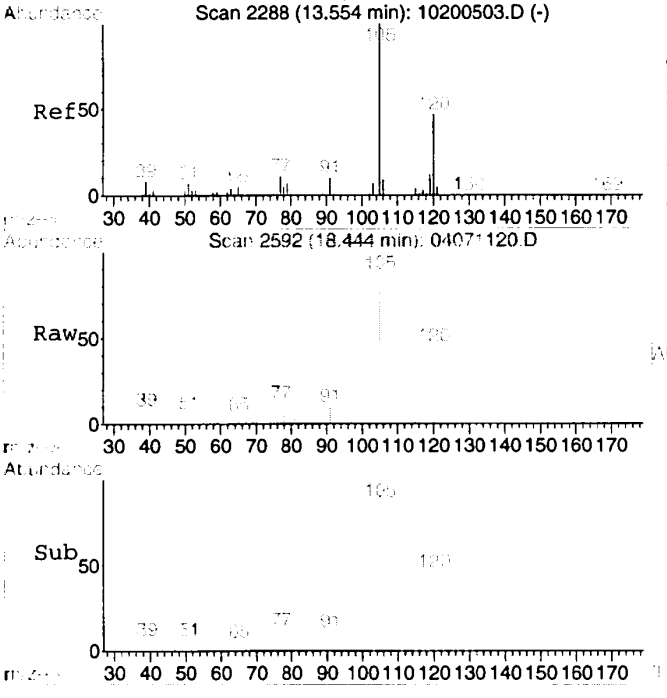


#52
o-Xylene
Concen: 4.22 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion: 91 Resp: 679490

Ion	Ratio	Lower	Upper
91	100		
106	47.7	41.0	61.6
51	11.9	19.7	29.5#

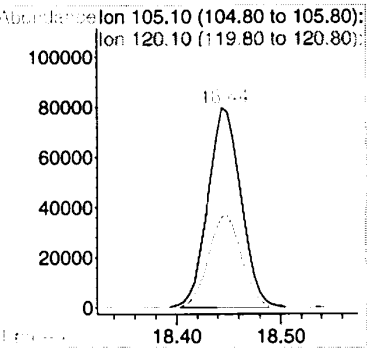




#59
1,2,4-Trimethylbenzene
Concen: 1.15 ppbv
RT: 18.44 min Scan# 2592
Delta R.T. -0.00 min
Lab File: 04071120.D
Acq: 8 Apr 2011 2:30 am

Tgt Ion:105 Resp: 176981

Ion	Ratio	Lower	Upper
105	100		
120	46.5	38.9	58.3
91	11.4	8.2	12.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.358	63	90	124	rBV	768489	4196062	21.31%	1.763%
2	7.188	424	440	460	rBV	357411	1209817	6.15%	0.508%
3	7.560	501	511	528	rVB	341411	1058011	5.37%	0.444%
4	8.161	613	626	638	rBV5	91449	356760	1.81%	0.150%
5	8.763	726	741	761	rBV2	1487321	4922885	25.01%	2.068%
6	8.925	761	772	789	rVB2	284060	816308	4.15%	0.343%
7	9.087	789	803	820	rBV	649602	1934064	9.82%	0.813%
8	9.390	847	861	879	rVB	1896855	4768503	24.22%	2.003%
9	10.002	967	978	992	rVB	894147	2366460	12.02%	0.994%
10	10.211	1006	1018	1039	rBV	1421874	3794671	19.27%	1.594%
11	10.766	1113	1124	1129	rBV	1753436	4801110	24.39%	2.017%
12	10.954	1147	1160	1167	rBV	2255051	5828868	29.61%	2.449%
13	11.032	1167	1175	1196	rVB2	4076763	10339634	52.52%	4.344%
14	11.205	1196	1208	1217	rBV2	289649	797970	4.05%	0.335%
15	11.357	1217	1237	1250	rVV	5525608	16273106	82.66%	6.836%
16	11.472	1250	1259	1262	rVV2	2212344	5104212	25.93%	2.144%
17	11.519	1262	1268	1288	rVB2	4981388	12430977	63.14%	5.222%
18	11.864	1321	1334	1351	rBV	2592446	6035289	30.66%	2.535%
19	12.199	1386	1398	1406	rBV	772176	1838817	9.34%	0.772%
20	12.282	1406	1414	1423	rBV2	1443907	3514064	17.85%	1.476%
21	12.392	1425	1435	1458	rVB	6420247	16273739	82.66%	6.837%
22	12.570	1458	1469	1474	rBV5	456127	1203137	6.11%	0.505%
23	12.622	1474	1479	1492	rVB	469874	1127183	5.73%	0.474%
24	12.795	1496	1512	1527	rBV2	2781285	7075007	35.94%	2.972%
25	12.941	1527	1540	1545	rBV3	2282029	7048816	35.80%	2.961%
26	13.145	1568	1579	1596	rBV	1262954	3889055	19.75%	1.634%
27	13.339	1607	1616	1632	rVB	1172332	3006121	15.27%	1.263%
28	13.574	1644	1661	1667	rBV	1837354	5054005	25.67%	2.123%
29	13.674	1673	1680	1693	rVB	3816304	8297630	42.15%	3.486%
30	13.804	1693	1705	1721	rVB	7840686	19687244	100.00%	8.271%
31	13.930	1721	1729	1741	rBV4	137063	388929	1.98%	0.163%
32	14.076	1741	1757	1769	rBV3	1001263	2995864	15.22%	1.259%
33	14.197	1769	1780	1789	rBV4	403234	1248202	6.34%	0.524%
34	14.286	1789	1797	1806	rBV	607208	1268327	6.44%	0.533%
35	14.458	1821	1830	1836	rBV	348441	800728	4.07%	0.336%
36	14.521	1836	1842	1851	rVV4	221147	610037	3.10%	0.256%
37	14.683	1865	1873	1886	rBV	301982	763773	3.88%	0.321%
38	14.830	1886	1901	1907	rVV	2112906	5669805	28.80%	2.382%
39	14.887	1907	1912	1918	rVV	1020838	2431665	12.35%	1.022%
40	14.945	1918	1923	1929	rVV	610093	1478604	7.51%	0.621%
41	15.018	1929	1937	1954	rVB	1382379	3595947	18.27%	1.511%
42	15.196	1957	1971	1988	rBV2	1411525	3502944	17.79%	1.472%
43	15.332	1988	1997	2005	rBV2	214884	504553	2.56%	0.212%

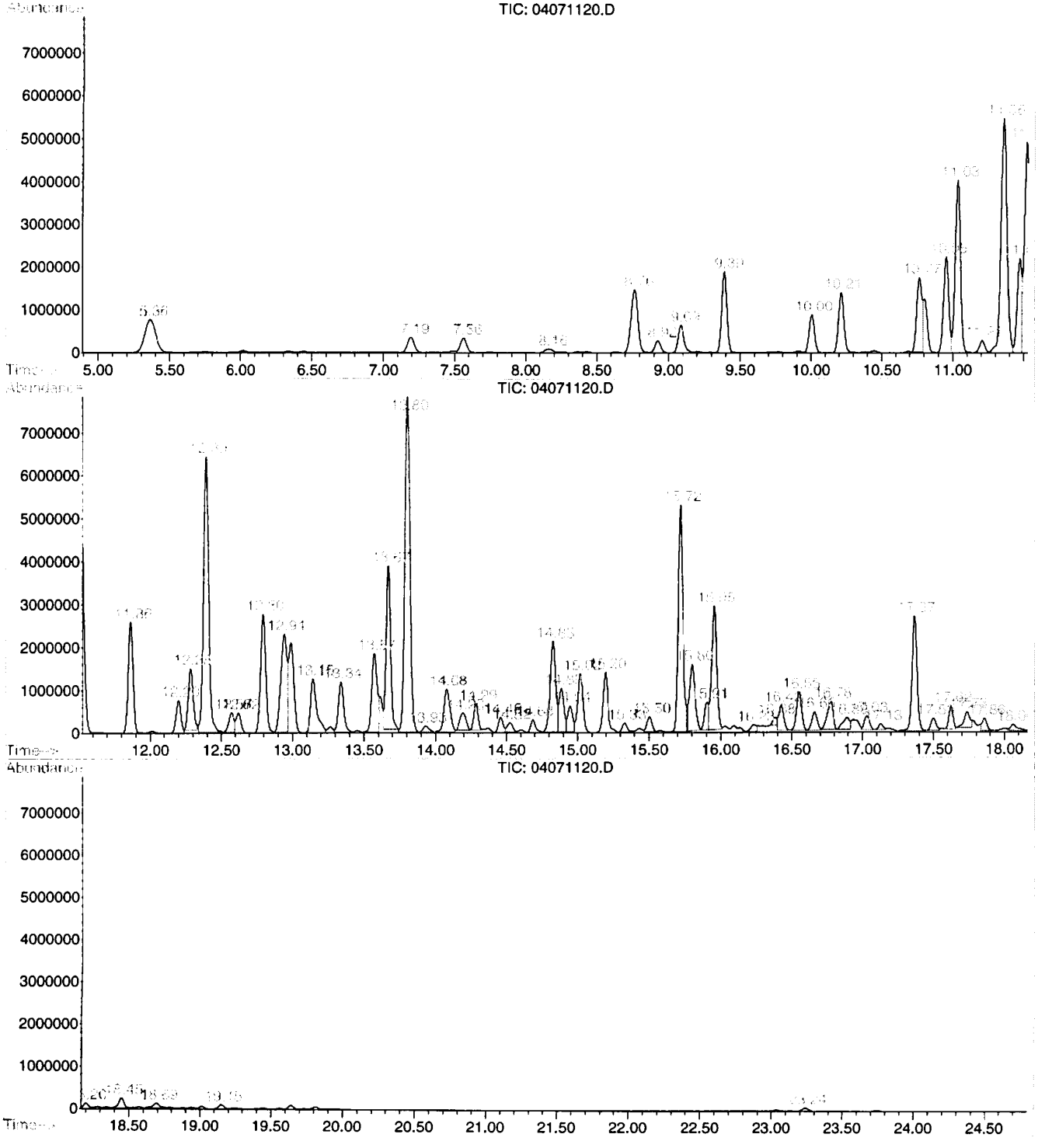
44	15.504	2022	2030	2039	rVB	341285	816428	4.15%	0.343%
45	15.719	2057	2071	2080	rBV	5296593	12378205	62.87%	5.200%
46	15.802	2081	2087	2098	rVV	1551896	4031222	20.48%	1.694%
47	15.907	2098	2107	2109	rVV	649313	1371368	6.97%	0.576%
48	15.954	2109	2116	2127	rVV	2885185	7030392	35.71%	2.953%
49	16.231	2158	2169	2173	rBV2	154234	449032	2.28%	0.189%
50	16.378	2191	2197	2200	rBV	185053	355032	1.80%	0.149%
51	16.425	2201	2206	2217	rVB2	580667	1345747	6.84%	0.565%
52	16.550	2219	2230	2241	rVB	899835	2256060	11.46%	0.948%
53	16.660	2241	2251	2260	rBV3	430167	1143897	5.81%	0.481%
54	16.775	2260	2273	2281	rVB6	656505	1958404	9.95%	0.823%
55	16.890	2281	2295	2300	rBV7	278258	990768	5.03%	0.416%
56	17.031	2315	2322	2332	rVB3	326883	860947	4.37%	0.362%
57	17.131	2332	2341	2347	rBV2	142646	331470	1.68%	0.139%
58	17.366	2363	2386	2401	rBV	2686412	6499274	33.01%	2.730%
59	17.502	2402	2412	2420	rBV3	290632	747106	3.79%	0.314%
60	17.622	2427	2435	2442	rBV	547190	1110316	5.64%	0.466%
61	17.732	2443	2456	2463	rBV3	372544	1089963	5.54%	0.458%
62	17.858	2475	2480	2495	rVB2	288857	693640	3.52%	0.291%
63	18.062	2512	2519	2538	rVV3	145188	494229	2.51%	0.208%
64	18.198	2538	2545	2554	rVB	107000	236316	1.20%	0.099%
65	18.449	2579	2593	2604	rBV	236159	609472	3.10%	0.256%
66	18.695	2624	2640	2653	rBV6	111807	397265	2.02%	0.167%
67	19.150	2712	2727	2737	rBV3	101100	292606	1.49%	0.123%
68	23.240	3497	3509	3524	rVB3	75840	238647	1.21%	0.100%

Sum of corrected areas: 238036709

04071120.D 040711V1.M Thu Apr 14 16:00:45 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071120.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 2:30 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-016A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 19
Quant File :040711V1.RES (RTE Integrator)



04071120.D 040711V1.M Thu Apr 14 16:00:45 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	10.92 ppbv	4196060	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	2-Heptanamine, 5-methyl-	129	C8H19N	053907-81-6	3
5	Octodrine $$ 2-Heptanamine, 6-methy	129	C8H19N	000543-82-8	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	3.15 ppbv	1209820	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	10
5	1-Butene	56	C4H8	000106-98-9	10

****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	12.82 ppbv	4922890	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Pentane	72	C5H12	000109-66-0	50

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	5.04 ppbv	1934060	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	56
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	40

****

Peak Number 5 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	6.16 ppbv	2366460	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 6 Cyclopentane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	9.88 ppbv	3794670	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
4	Cyclohexane	84	C6H12	000110-82-7	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	15.18 ppbv	5828870	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	33.70 ppbv	16273100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
4	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	3.81 ppbv	1838820	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	92
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	60
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	38
4	Hexanoic acid, 9-decen-1-yl ester	254	C16H30O2	000000-00-0	25
5	1-Pyrrolidinecarboxaldehyde $$ N-Fo	99	C5H9NO	003760-54-1	25

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	7.28 ppbv	3514060	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
3	Ether, heptyl hexyl	200	C13H28O	007289-40-9	59
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	33.71 ppbv	16273700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	14.65 ppbv	7075010	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64
4	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64
5	Hexane, 3,3,4-trimethyl- $$ 3,3,4-T	128	C9H20	016747-31-2	64

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	14.60 ppbv	7048820	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	50

****

Peak Number 14 Heptane, 3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	8.05 ppbv	3889060	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	62
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	50

****

Peak Number 15 Hexane, 2,2,5-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	6.23 ppbv	3006120	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	10.47 ppbv	5054010	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 17 Octane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	17.19 ppbv	8297630	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	87
3	Octane	114	C8H18	000111-65-9	87
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Octane	114	C8H18	000111-65-9	74

****

Peak Number 18 Cyclohexane, ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	5.73 ppbv	5669810	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	80

Data File : C:\HPCHEM\1\DATA\040711\04071120.D Vial: 19
Acq On : 8 Apr 2011 2:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	3.63 ppbv	3595950	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	68
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	62
3	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	52
4	Hydroxylamine, O-decyl- $$ O-Decylh	173	C10H23NO	029812-79-1	50
5	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	50

****

Peak Number 20 Octane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	3.54 ppbv	3502940	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	49
2	Octane, 3-methyl- $$ 3-Methyloctane	128	C9H20	002216-33-3	47
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	43
4	Heptane, 2,5-dimethyl- $$ 2,5-Dimet	128	C9H20	002216-30-0	43
5	Heptane, 3-ethyl-	128	C9H20	015869-80-4	38

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 2:30 am
Data File: C:\HPCHEM\1\DATA\040711\04071120.D
Name: 1103609-016A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	10.9	ppbv	4196060	ISTD01	10.77	4801110	12.5
Butane, 2-methyl-	7.19	3.1	ppbv	1209820	ISTD01	10.77	4801110	12.5
Pentane, 2-methyl-	8.76	12.8	ppbv	4922890	ISTD01	10.77	4801110	12.5
Pentane, 3-methyl-	9.09	5.0	ppbv	1934060	ISTD01	10.77	4801110	12.5
Pentane, 2,4-dimethy	10.00	6.2	ppbv	2366460	ISTD01	10.77	4801110	12.5
Cyclopentane, methyl	10.21	9.9	ppbv	3794670	ISTD01	10.77	4801110	12.5
Pentane, 2,3-dimethy	10.95	15.2	ppbv	5828870	ISTD01	10.77	4801110	12.5
Hexane, 2,2-dimethyl	11.36	33.7	ppbv	16273100	ISTD02	11.86	6035290	12.5
Hexane, 2,5-dimethyl	12.20	3.8	ppbv	1838820	ISTD02	11.86	6035290	12.5
Hexane, 2,4-dimethyl	12.28	7.3	ppbv	3514060	ISTD02	11.86	6035290	12.5
Cyclohexane, methyl-	12.39	33.7	ppbv	16273700	ISTD02	11.86	6035290	12.5
Pentane, 2,3,4-trime	12.80	14.7	ppbv	7075010	ISTD02	11.86	6035290	12.5
Heptane, 2-methyl-	12.94	14.6	ppbv	7048820	ISTD02	11.86	6035290	12.5
Heptane, 3-methyl-	13.15	8.1	ppbv	3889060	ISTD02	11.86	6035290	12.5
Hexane, 2,2,5-trimet	13.34	6.2	ppbv	3006120	ISTD02	11.86	6035290	12.5
Cyclohexane, 1,3-dim	13.57	10.5	ppbv	5054010	ISTD02	11.86	6035290	12.5
Octane	13.67	17.2	ppbv	8297630	ISTD02	11.86	6035290	12.5
Cyclohexane, ethyl-	14.83	5.7	ppbv	5669810	ISTD03	15.72	12378200	12.5
Octane, 4-methyl-	15.02	3.6	ppbv	3595950	ISTD03	15.72	12378200	12.5
Octane, 3-methyl-	15.20	3.5	ppbv	3502940	ISTD03	15.72	12378200	12.5

04071120.D 040711V1.M Thu Apr 14 16:00:46 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:42 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

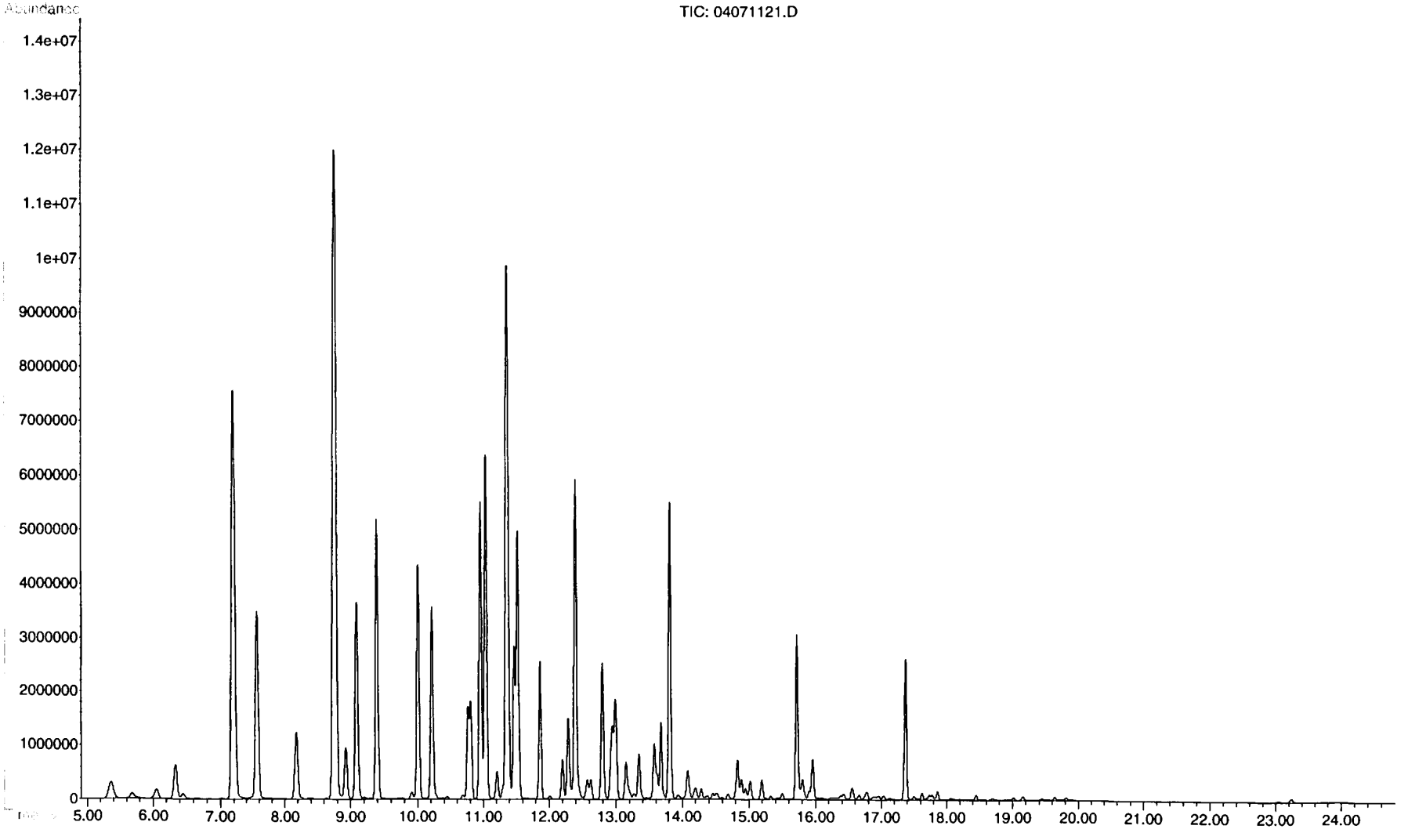
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	747919	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2584456	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1937321	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1208646	12.42	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.36%				
Target Compounds							Qvalue
2) Propylene	5.68	41	115686	2.00	ppbv		87
20) n-Hexane	9.39	57	3333409	31.65	ppbv		99
29) Cyclohexane	11.04	56	3067999	29.08	ppbv	#	82
31) Benzene	11.47	78	2355969	14.04	ppbv		95
34) Heptane	11.52	43	2106784	17.89	ppbv	#	92
41) Toluene	13.80	91	4969339	27.81	ppbv		98
50) Ethylbenzene	15.80	91	318964	1.58	ppbv		95
51) m,p-Xylene	15.95	91	553406	3.58	ppbv		92
52) o-Xylene	16.55	91	170524	1.10	ppbv	#	90

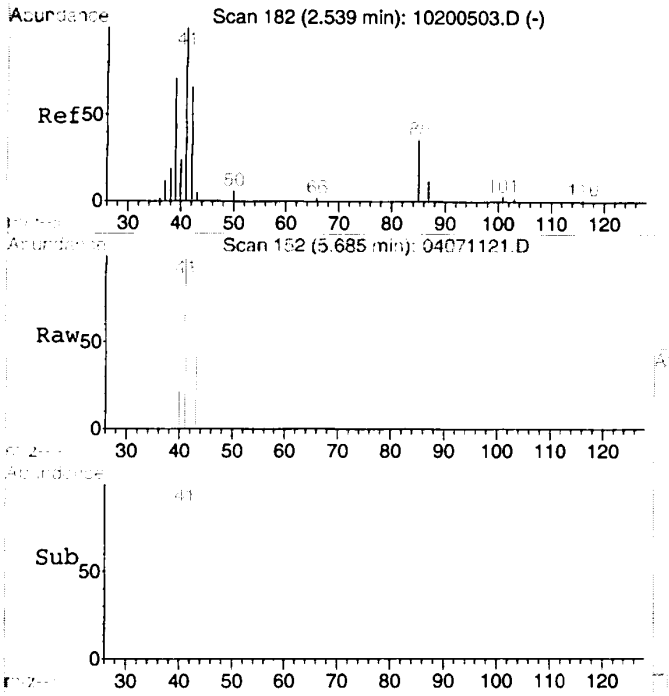
(#) = qualifier out of range (m) = manual integration
04071121.D 040711V1.M Thu Apr 14 16:00:53 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:42 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

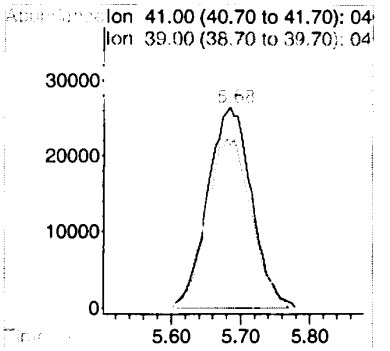


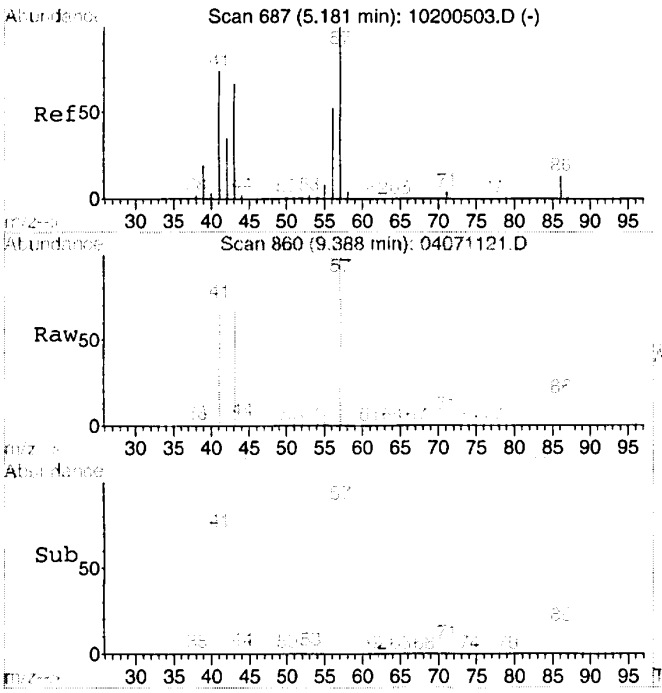


#2
Propylene
Concen: 2.00 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 41 Resp: 115686

Ion	Ratio	Lower	Upper
41	100		
39	84.2	57.6	86.4
42	58.9	54.0	81.0

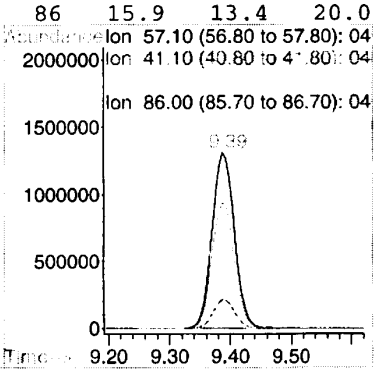


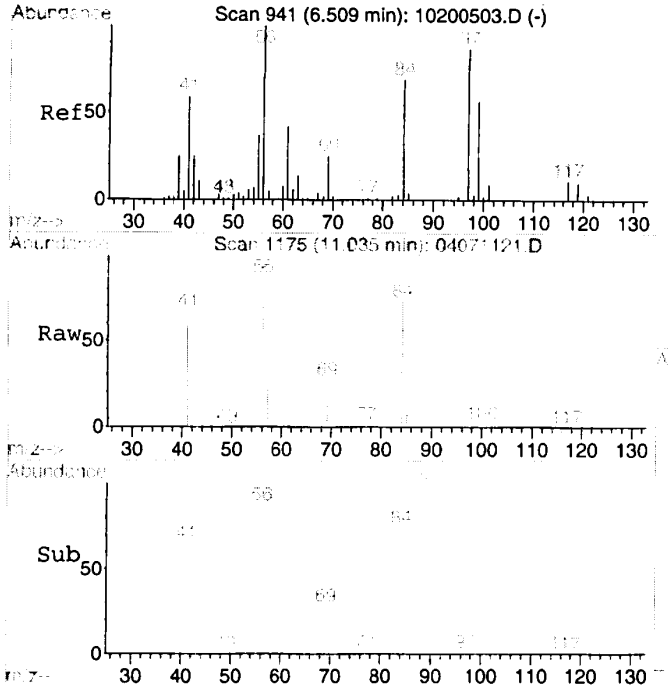


#20
n-Hexane
Concen: 31.65 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 57 Resp: 3333409

Ion	Ratio	Lower	Upper
57	100		
41	72.2	57.2	85.8
53	2.4	1.8	2.8
86	15.9	13.4	20.0

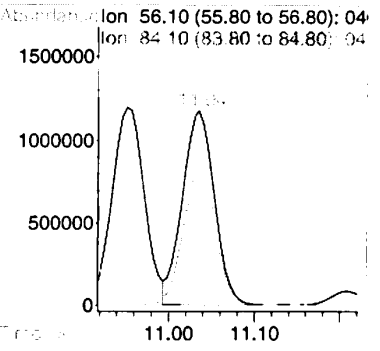


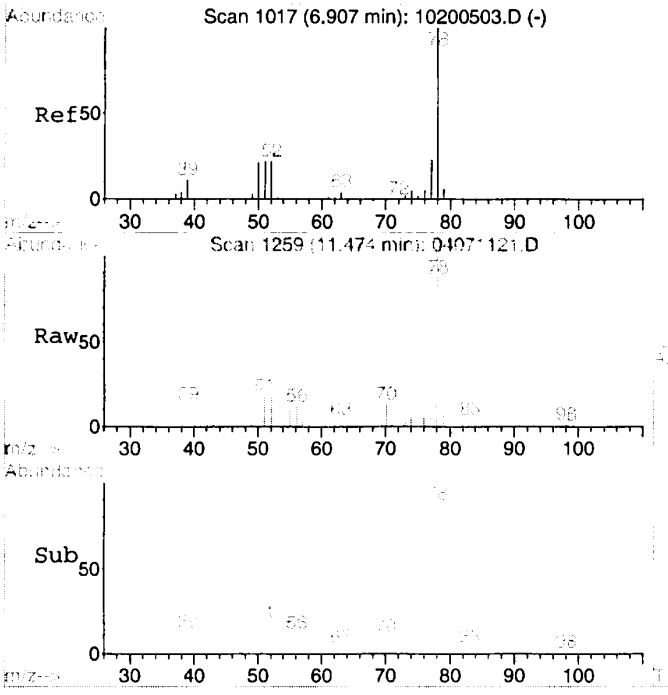


#29
Cyclohexane
Concen: 29.08 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 56 Resp: 3067999

Ion	Ratio	Lower	Upper
56	100		
84	72.8	72.4	108.6
41	67.5	43.8	65.8#

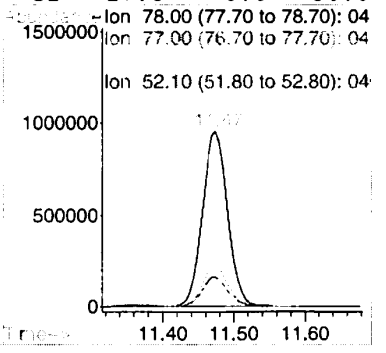


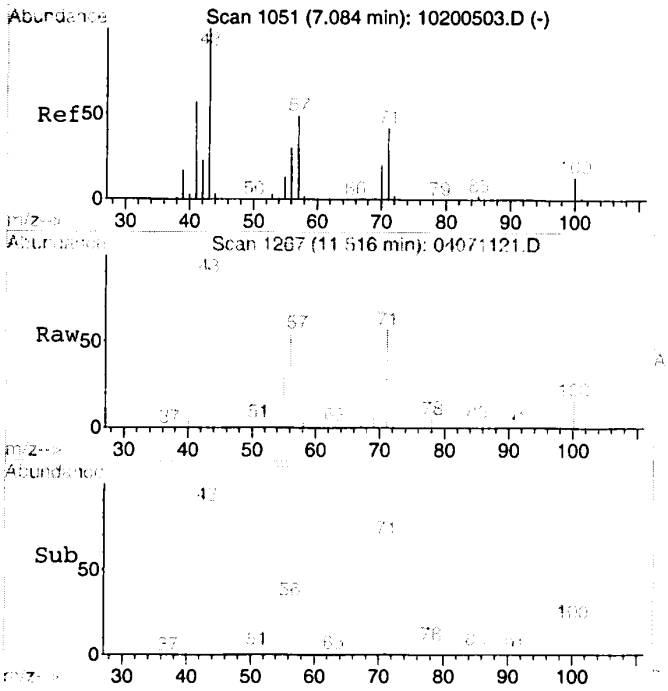


#31
Benzene
Concen: 14.04 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 78 Resp: 2355969

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	19.7	0.0	36.1
52	17.8	0.0	36.0

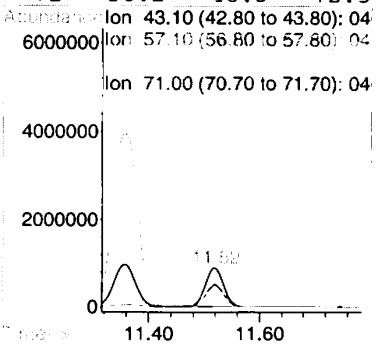


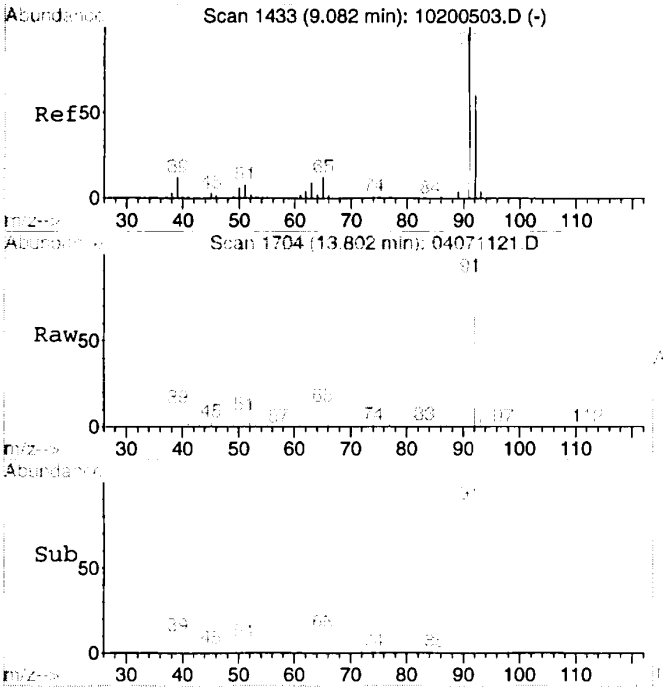


#34
Heptane
Concen: 17.89 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 43 Resp: 2106784

Ion	Ratio	Lower	Upper
43	100		
57	58.6	42.2	63.4
100	15.6	17.3	25.9#
71	56.2	48.3	72.5

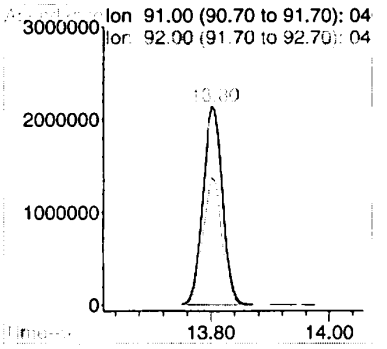


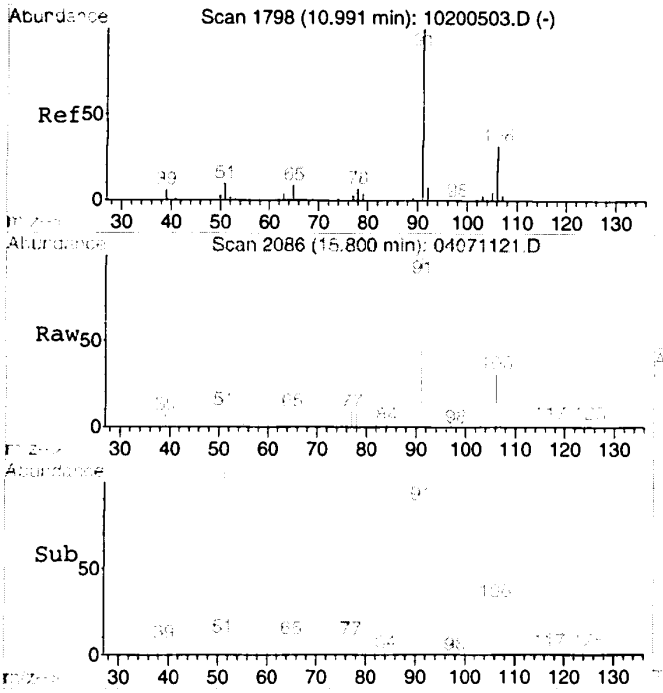


#41
Toluene
Concen: 27.81 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 91 Resp: 4969339

Ion	Ratio	Lower	Upper
91	100		
92	62.4	40.5	80.5
65	12.0	0.0	31.2

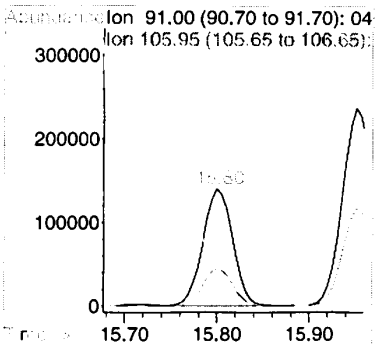


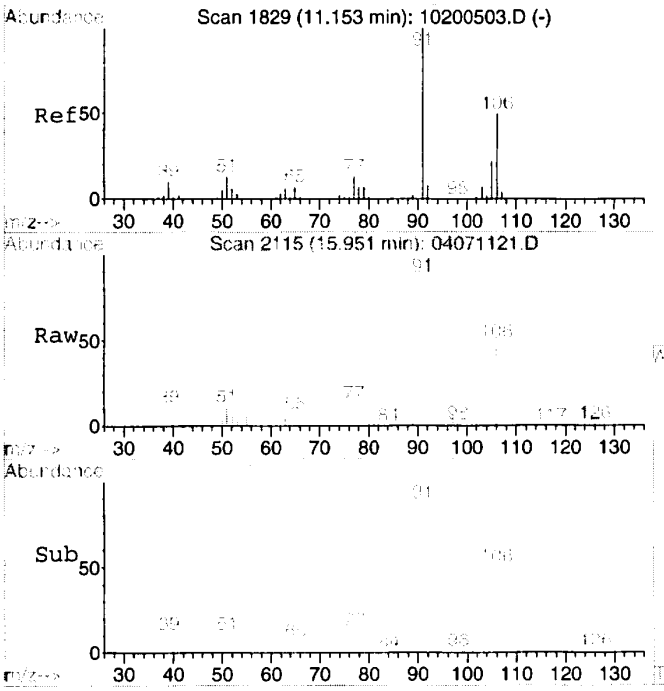


#50
Ethylbenzene
Concen: 1.58 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 91 Resp: 318964

Ion	Ratio	Lower	Upper
91	100		
106	31.6	14.9	54.9
51	11.6	0.0	33.1

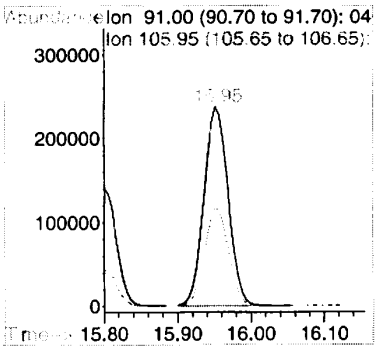


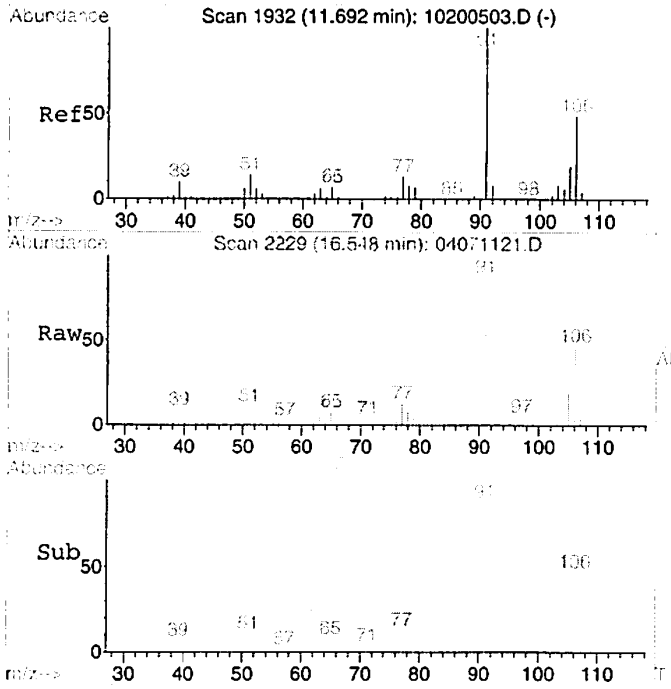


#51
m,p-Xylene
Concen: 3.58 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 91 Resp: 553406

Ion	Ratio	Lower	Upper
91	100		
106	49.4	35.6	75.6
51	10.7	0.0	29.6

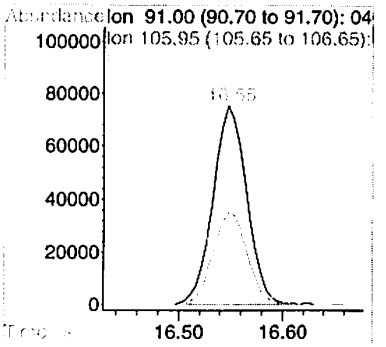




#52
o-Xylene
Concen: 1.10 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. 0.00 min
Lab File: 04071121.D
Acq: 8 Apr 2011 3:10 am

Tgt Ion: 91 Resp: 170524

Ion	Ratio	Lower	Upper
91	100		
106	47.5	41.0	61.6
51	15.3	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.360	62	90	118	rBV	309679	1668827	3.65%	0.519%
2	5.679	135	151	179	rVB5	102017	538235	1.18%	0.168%
3	6.051	201	222	238	rBV4	187072	810573	1.77%	0.252%
4	6.333	258	276	289	rBV	638873	2358676	5.16%	0.734%
5	7.191	421	440	473	rBV	7575559	28325086	61.98%	8.815%
6	7.562	496	511	536	rVB	3490326	11321962	24.78%	3.524%
7	8.174	613	628	655	rVB	1239223	4166073	9.12%	1.297%
8	8.755	723	739	761	rBV3	12018733	45698564	100.00%	14.222%
9	8.927	761	772	788	rVB	945882	2778785	6.08%	0.865%
10	9.084	789	802	820	rBV	3656808	10273497	22.48%	3.197%
11	9.388	848	860	883	rVB	5196357	13186537	28.86%	4.104%
12	10.005	967	978	1003	rVV	4368903	11443611	25.04%	3.562%
13	10.214	1004	1018	1042	rVV	3582761	9498380	20.78%	2.956%
14	10.763	1113	1123	1127	rBV	1698026	4214326	9.22%	1.312%
15	10.951	1145	1159	1167	rBV	5519268	14392984	31.50%	4.479%
16	11.035	1167	1175	1196	rVV2	6385101	16616246	36.36%	5.171%
17	11.208	1196	1208	1217	rVV3	511242	1387738	3.04%	0.432%
18	11.359	1217	1237	1250	rVV	9894766	30533853	66.82%	9.503%
19	11.469	1250	1258	1262	rVV2	2834749	6765267	14.80%	2.106%
20	11.521	1262	1268	1291	rVB2	4984990	12588831	27.55%	3.918%
21	11.861	1322	1333	1345	rBV	2569311	5854015	12.81%	1.822%
22	12.196	1382	1397	1405	rBV	743193	1769174	3.87%	0.551%
23	12.285	1405	1414	1423	rVV2	1517970	3947696	8.64%	1.229%
24	12.390	1424	1434	1457	rVV	5945377	15514130	33.95%	4.828%
25	12.573	1458	1469	1473	rVV4	371690	1025813	2.24%	0.319%
26	12.620	1474	1478	1493	rVB	375833	868388	1.90%	0.270%
27	12.792	1498	1511	1526	rBV2	2535329	6513632	14.25%	2.027%
28	12.939	1526	1539	1543	rVV5	1359154	4047585	8.86%	1.260%
29	12.986	1544	1548	1564	rVB	1864924	4646378	10.17%	1.446%
30	13.143	1568	1578	1595	rBV2	690619	2222812	4.86%	0.692%
31	13.342	1607	1616	1632	rVB	834127	2137297	4.68%	0.665%
32	13.572	1643	1660	1673	rBV	1030123	3585192	7.85%	1.116%
33	13.671	1673	1679	1693	rVV	1428518	3167922	6.93%	0.986%
34	13.802	1693	1704	1720	rVV	5506374	13162252	28.80%	4.096%
35	14.079	1741	1757	1769	rVV3	519688	1580453	3.46%	0.492%
36	14.199	1769	1780	1789	rVV4	205733	666790	1.46%	0.208%
37	14.827	1886	1900	1906	rVV	734585	1957164	4.28%	0.609%
38	14.884	1906	1911	1918	rVV2	374286	968165	2.12%	0.301%
39	14.947	1918	1923	1929	rVV5	204985	500736	1.10%	0.156%
40	15.020	1929	1937	1954	rVB2	348174	935080	2.05%	0.291%
41	15.193	1957	1970	1988	rBV3	374076	955336	2.09%	0.297%
42	15.716	2058	2070	2081	rBV	3069964	7244458	15.85%	2.255%
43	15.800	2081	2086	2099	rVV2	364148	1040375	2.28%	0.324%

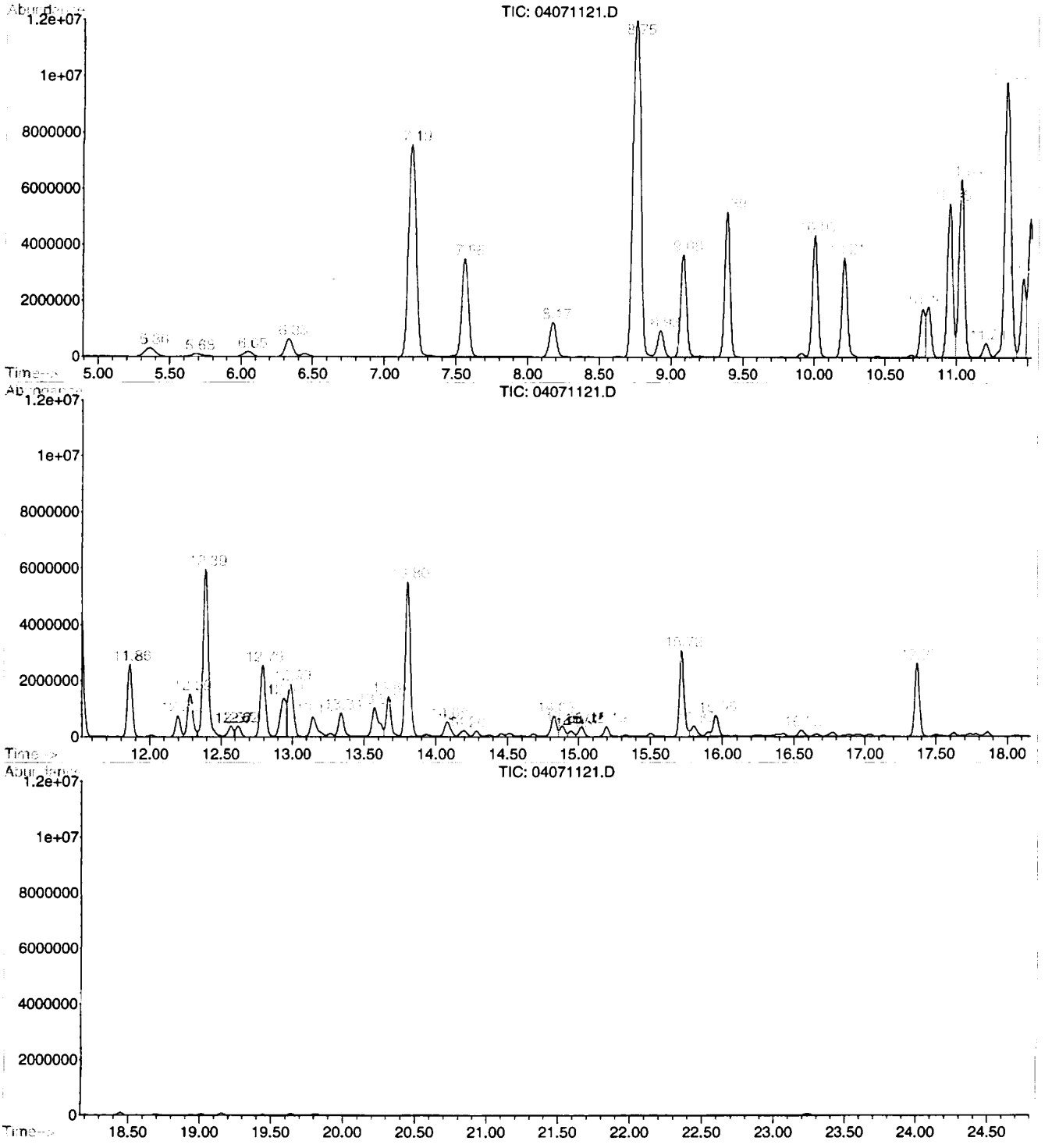
44	15.951	2108	2115	2126	rVB2	731595	1822219	3.99%	0.567%
45	16.548	2219	2229	2241	rVV2	223552	617746	1.35%	0.192%
46	17.369	2364	2386	2402	rBV	2621525	5994457	13.12%	1.866%

Sum of corrected areas: 321313316

04071121.D 040711V1.M Thu Apr 14 16:00:58 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071121.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 3:10 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-018A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 20
Quant File :040711V1.RES (RTE Integrator)



04071121.D 040711V1.M Thu Apr 14 16:00:58 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	4.95 ppbv	1668830	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane $$ n-Butane $$ Diethyl Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	7.00 ppbv	2358680	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	72
2	Butane	58	C4H10	000106-97-8	72
3	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9
4	Isobutane	58	C4H10	000075-28-5	9
5	Diazene, dimethyl-	58	C2H6N2	000503-28-6	4

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	84.01 ppbv	28325100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	33
5	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane $$ n-Pentane $$ Skelly Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	33.58 ppbv	11322000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	38
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	36

****

Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.17	12.36 ppbv	4166070	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	86
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	78
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	78
4	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 6 Butane, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	135.54 ppbv	45698600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
2	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	59
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	49
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	47
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D
Acq On : 8 Apr 2011 3:10 am
Sample : 1103609-018A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 20
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	8.24 ppbv	2778790	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	83
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	72
3	Cyclobutanone	70	C4H6O	001191-95-3	45
4	Cyclobutanone	70	C4H6O	001191-95-3	45
5	1-Pentene	70	C5H10	000109-67-1	45

****

Peak Number 8 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	30.47 ppbv	10273500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	64
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

****

Peak Number 9 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	33.94 ppbv	11443600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	28.17 ppbv	9498380	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	58
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 11 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	42.69 ppbv	14393000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 12 Hexane, 2,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	65.20 ppbv	30533900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
5	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 1-(hexyloxy)-5-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	8.43 ppbv	3947700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	64
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
3	Ether, heptyl hexyl	200	C13H28O	007289-40-9	59
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	50

****

Peak Number 14 Cyclohexane, methyl- $$ Cycloh Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	33.13 ppbv	15514100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	13.91 ppbv	6513630	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	80
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	59

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	8.64 ppbv	4047590	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	70
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
3	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	56
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	50
5	Heptane, 3,4-dimethyl- $$ 3,4-Dimet	128	C9H20	000922-28-1	50

****

Peak Number 17 Pentane, 2,3,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	9.92 ppbv	4646380	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	53
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	42
4	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	38
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	36

****

Peak Number 18 Heptane, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	4.75 ppbv	2222810	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	83
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

Data File : C:\HPCHEM\1\DATA\040711\04071121.D Vial: 20
Acq On : 8 Apr 2011 3:10 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	7.66 ppbv	3585190	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 20 Octane $$ n-Octane $$ n-C8H18 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	6.76 ppbv	3167920	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Hexane, 3-ethyl-	114	C8H18	000619-99-8	59
4	Octane	114	C8H18	000111-65-9	52
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	50

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 3:10 am
Data File: C:\HPCHEM\1\DATA\040711\04071121.D
Name: 1103609-018A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	4.9	ppbv	1668830	ISTD01	10.76	4214330	12.5
Butane $$ n-Butane $	6.33	7.0	ppbv	2358680	ISTD01	10.76	4214330	12.5
Butane, 2-methyl-	7.19	84.0	ppbv	28325100	ISTD01	10.76	4214330	12.5
Pentane $$ n-Pentane	7.56	33.6	ppbv	11322000	ISTD01	10.76	4214330	12.5
Butane, 2,2-dimethyl	8.17	12.4	ppbv	4166070	ISTD01	10.76	4214330	12.5
Butane, 2,3-dimethyl	8.75	135.5	ppbv	45698600	ISTD01	10.76	4214330	12.5
Cyclopentane	8.93	8.2	ppbv	2778790	ISTD01	10.76	4214330	12.5
Pentane, 3-methyl-	9.08	30.5	ppbv	10273500	ISTD01	10.76	4214330	12.5
Pentane, 2,4-dimethy	10.00	33.9	ppbv	11443600	ISTD01	10.76	4214330	12.5
Cyclopentane, methyl	10.21	28.2	ppbv	9498380	ISTD01	10.76	4214330	12.5
Pentane, 2,3-dimethy	10.95	42.7	ppbv	14393000	ISTD01	10.76	4214330	12.5
Hexane, 2,2-dimethyl	11.36	65.2	ppbv	30533900	ISTD02	11.86	5854020	12.5
Hexane, 1-(hexyloxy)	12.29	8.4	ppbv	3947700	ISTD02	11.86	5854020	12.5
Cyclohexane, methyl-	12.39	33.1	ppbv	15514100	ISTD02	11.86	5854020	12.5
Pentane, 2,3,4-trime	12.79	13.9	ppbv	6513630	ISTD02	11.86	5854020	12.5
Heptane, 2-methyl-	12.94	8.6	ppbv	4047590	ISTD02	11.86	5854020	12.5
Pentane, 2,3,4-trime	12.99	9.9	ppbv	4646380	ISTD02	11.86	5854020	12.5
Heptane, 3-methyl-	13.14	4.7	ppbv	2222810	ISTD02	11.86	5854020	12.5
Cyclohexane, 1,3-dim	13.57	7.7	ppbv	3585190	ISTD02	11.86	5854020	12.5
Octane $$ n-Octane $	13.67	6.8	ppbv	3167920	ISTD02	11.86	5854020	12.5

04071121.D 040711V1.M Thu Apr 14 16:00:59 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:43 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

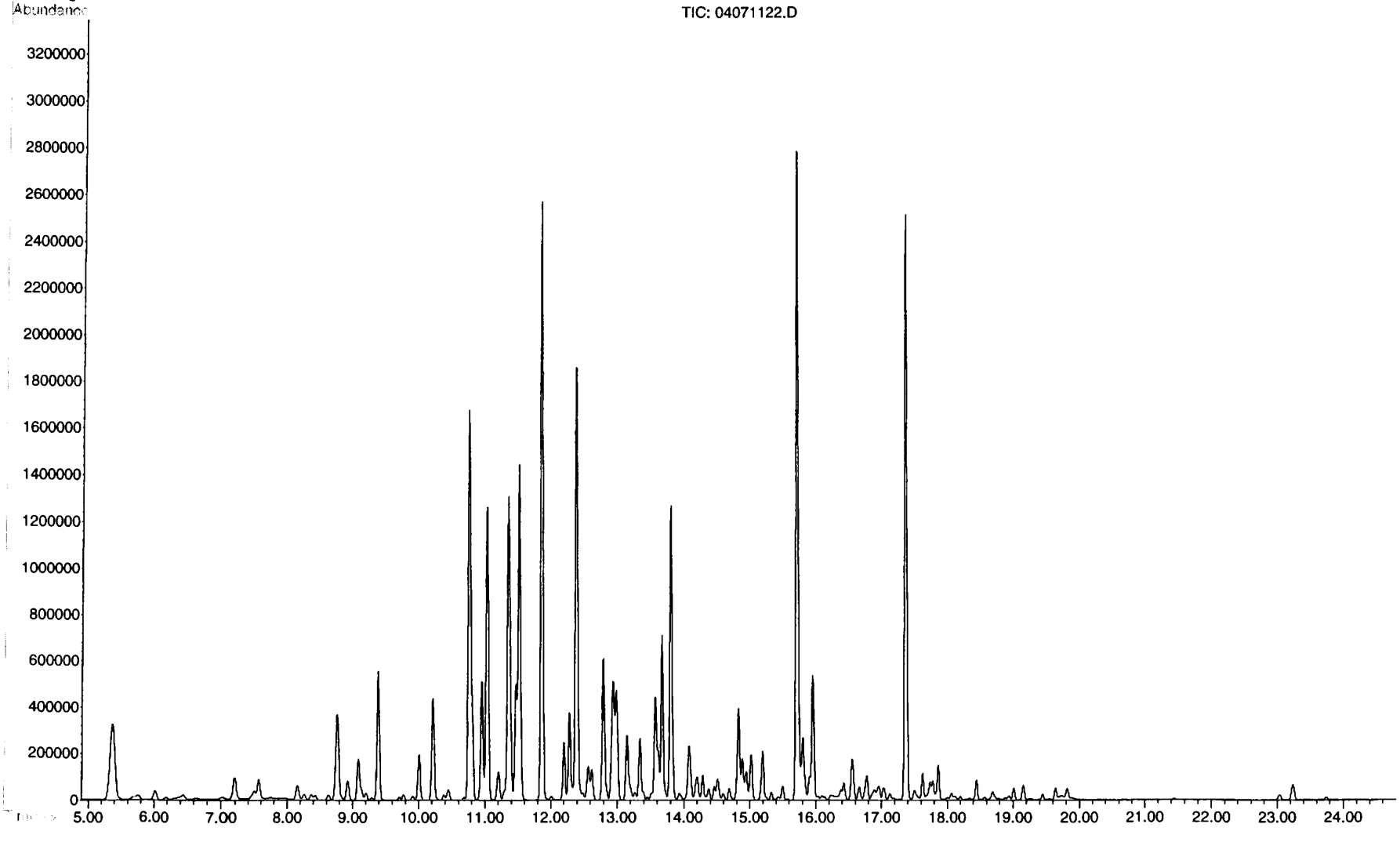
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	739101	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2623945	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1867025	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1149080	12.26	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.08%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	355139	3.41	ppbv		95
29) Cyclohexane	11.03	56	576685	5.53	ppbv	#	77
31) Benzene	11.47	78	366093	2.21	ppbv		93
34) Heptane	11.52	43	643955	5.38	ppbv	#	94
41) Toluene	13.80	91	1162327	6.41	ppbv		98
50) Ethylbenzene	15.80	91	226223	1.16	ppbv		96
51) m,p-Xylene	15.95	91	403131	2.71	ppbv		93

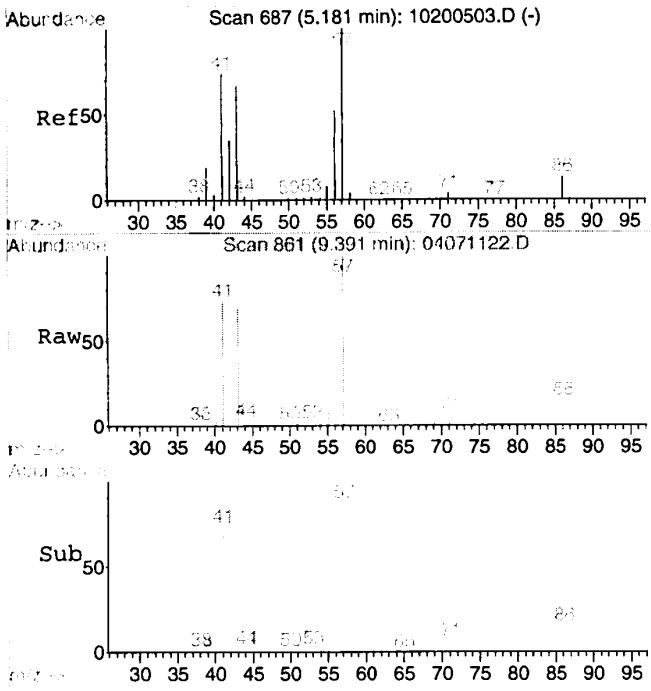
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:43 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

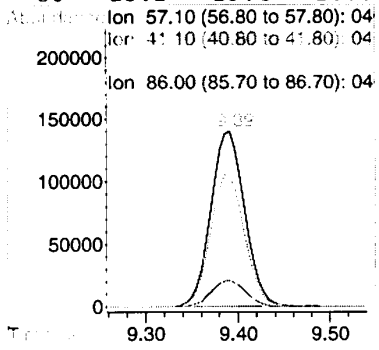


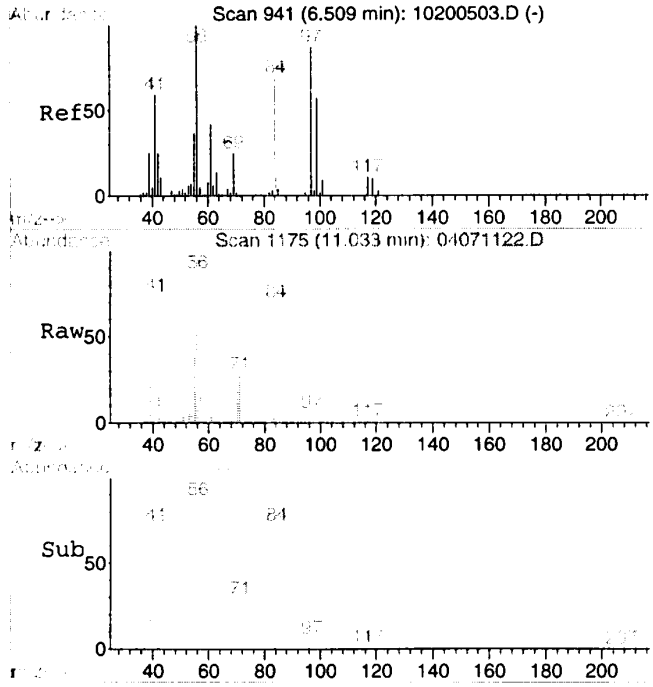


#20
n-Hexane
Concen: 3.41 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 57 Resp: 355139

Ion	Ratio	Lower	Upper
57	100		
41	76.3	57.2	85.8
53	2.6	1.8	2.8
86	15.2	13.4	20.0

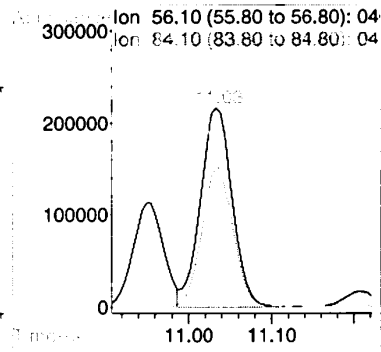


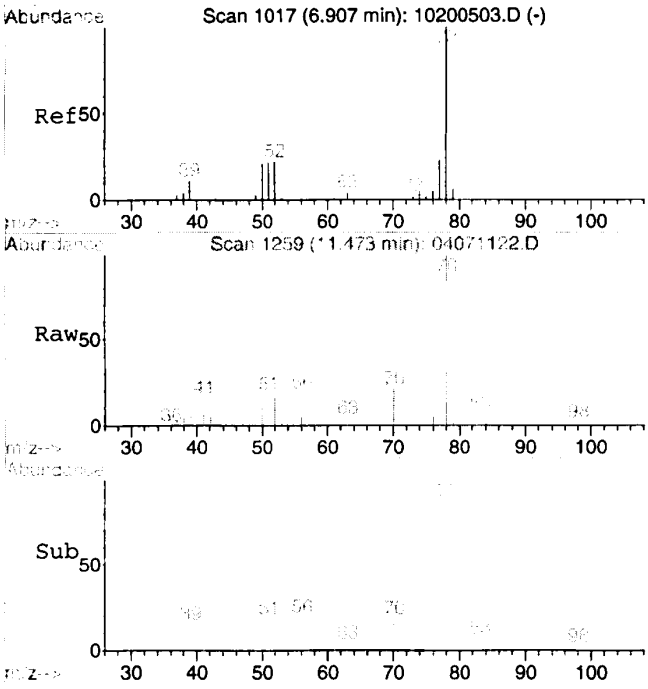


#29
Cyclohexane
Concen: 5.53 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 56 Resp: 576685

Ion	Ratio	Lower	Upper
56	100		
84	68.7	72.4	108.6#
41	71.7	43.8	65.8#

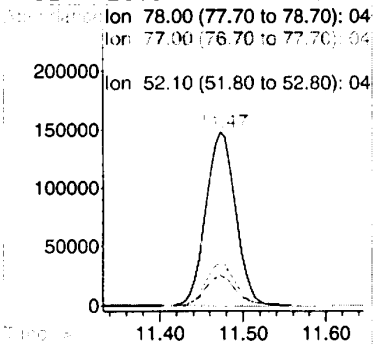


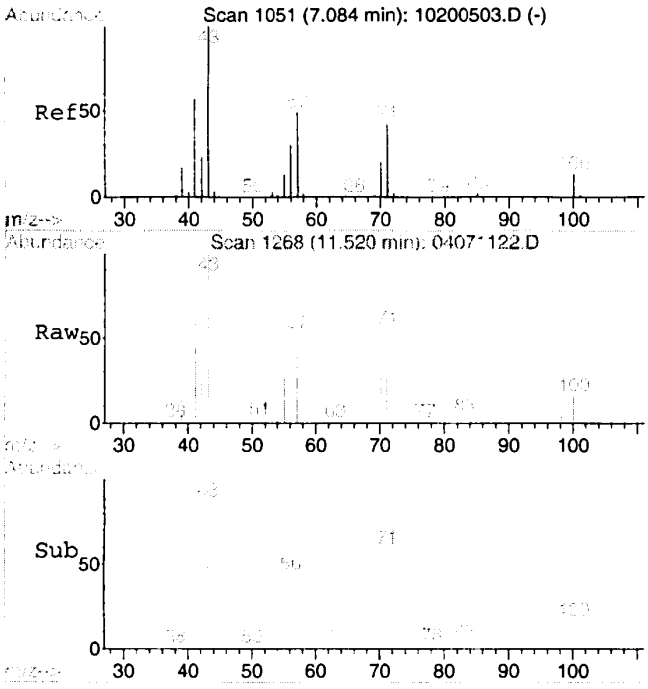


#31
Benzene
Concen: 2.21 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 78 Resp: 366093

Ion	Ratio	Lower	Upper
78	100		
77	24.9	3.7	43.7
51	22.5	0.0	36.1
52	18.3	0.0	36.0

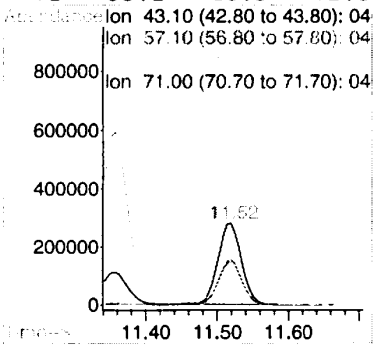


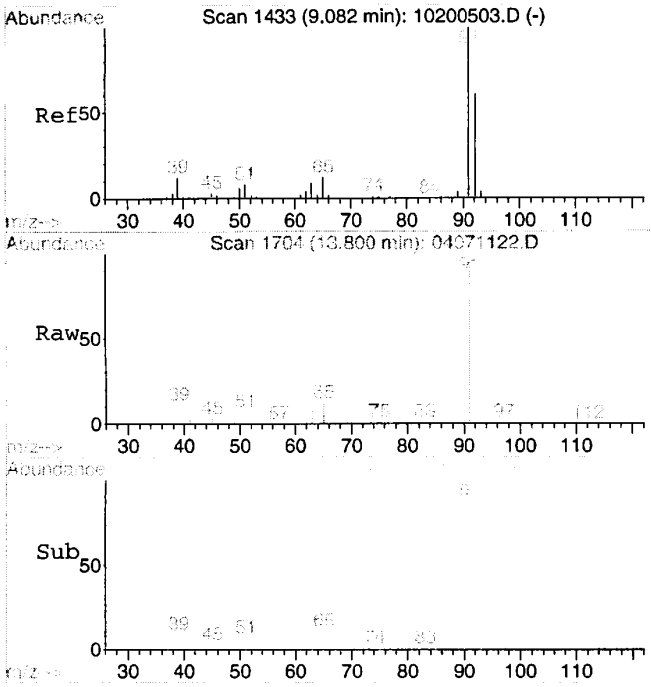


#34
Heptane
Concen: 5.38 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 43 Resp: 643955

Ion	Ratio	Lower	Upper
43	100		
57	54.9	42.2	63.4
100	15.6	17.3	25.9#
71	55.1	48.3	72.5

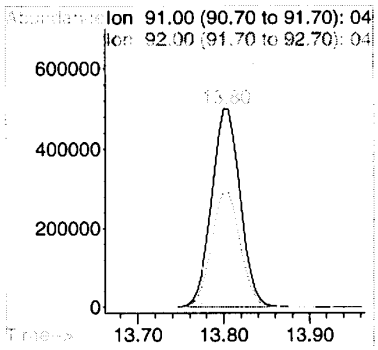


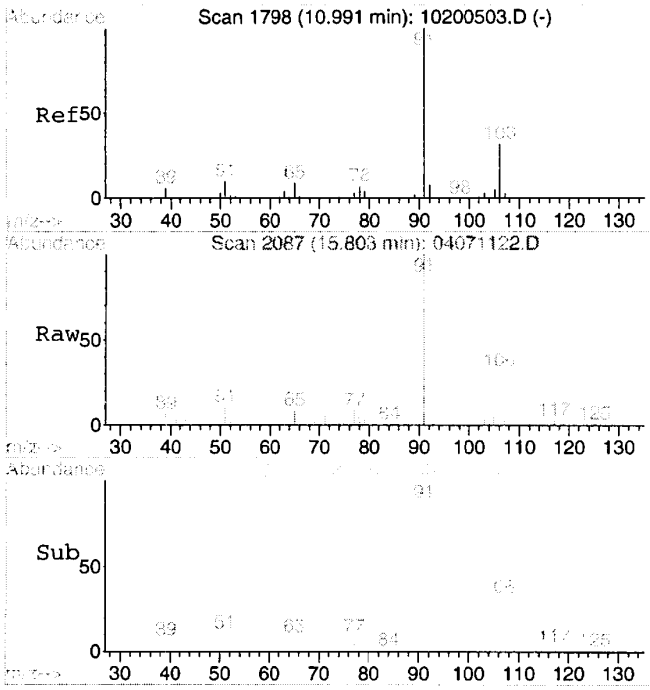


#41
Toluene
Concen: 6.41 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 91 Resp: 1162327

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.3	0.0	31.2

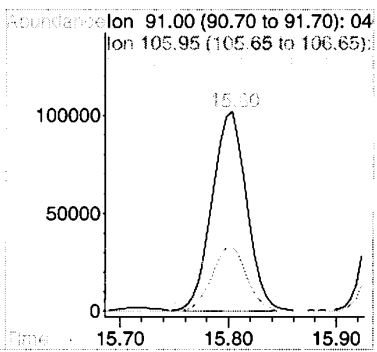


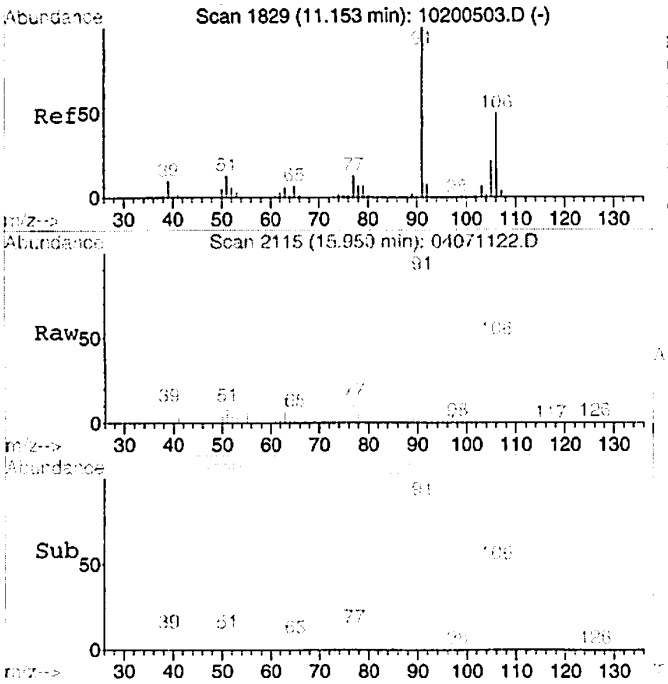


#50
Ethylbenzene
Concen: 1.16 ppbv
RT: 15.80 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 91 Resp: 226223

Ion	Ratio	Lower	Upper
91	100		
106	32.4	14.9	54.9
51	11.8	0.0	33.1

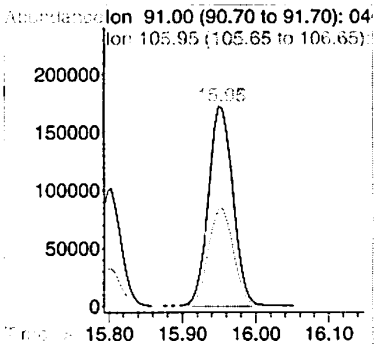




#51
m,p-Xylene
Concen: 2.71 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071122.D
Acq: 8 Apr 2011 3:50 am

Tgt Ion: 91 Resp: 403131

Ion	Ratio	Lower	Upper
91	100		
106	50.0	35.6	75.6
51	10.6	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.364	65	91	121	rBV	326197	1773688	26.80%	2.397%
2	5.756	159	166	182	rVB3	22530	86314	1.30%	0.117%
3	6.018	201	216	230	rBB2	42887	150839	2.28%	0.204%
4	7.194	428	441	455	rBV2	93346	318203	4.81%	0.430%
5	7.503	481	500	504	rBV3	34341	139666	2.11%	0.189%
6	7.560	504	511	529	rVB	85251	253213	3.83%	0.342%
7	8.157	611	625	636	rBV6	63326	209946	3.17%	0.284%
8	8.256	636	644	655	rVB2	26472	75452	1.14%	0.102%
9	8.366	655	665	671	rBV2	25008	69810	1.05%	0.094%
10	8.763	726	741	762	rVV2	370649	1270104	19.19%	1.716%
11	8.920	762	771	787	rVB2	84939	243582	3.68%	0.329%
12	9.088	791	803	820	rBV3	179987	612305	9.25%	0.827%
13	9.203	820	825	834	rVB3	31685	78486	1.19%	0.106%
14	9.391	849	861	877	rVB	556342	1418953	21.44%	1.917%
15	10.003	968	978	991	rVB2	198164	517307	7.82%	0.699%
16	10.212	1007	1018	1037	rBV	441027	1187025	17.94%	1.604%
17	10.447	1055	1063	1074	rVB3	45186	132047	2.00%	0.178%
18	10.761	1112	1123	1148	rVB2	1679159	5071108	76.62%	6.853%
19	10.950	1148	1159	1166	rVV	511184	1312328	19.83%	1.773%
20	11.033	1166	1175	1191	rVB2	1262893	3292364	49.75%	4.449%
21	11.201	1196	1207	1217	rBV3	122962	357757	5.41%	0.483%
22	11.358	1217	1237	1250	rVV	1310027	3984335	60.20%	5.384%
23	11.473	1250	1259	1261	rVV2	501750	1114194	16.83%	1.506%
24	11.520	1262	1268	1290	rVB2	1448751	3557895	53.76%	4.808%
25	11.860	1321	1333	1346	rBV	2576114	5914280	89.36%	7.992%
26	12.200	1388	1398	1406	rBV2	249788	596626	9.01%	0.806%
27	12.283	1406	1414	1423	rVV2	378564	996744	15.06%	1.347%
28	12.388	1424	1434	1449	rVV	1862147	4813973	72.74%	6.505%
29	12.571	1459	1469	1474	rVV4	147603	414770	6.27%	0.560%
30	12.623	1475	1479	1491	rVB3	134793	288970	4.37%	0.390%
31	12.796	1497	1512	1527	rBV	610594	1639421	24.77%	2.215%
32	12.942	1527	1540	1545	rBV4	506614	1583956	23.93%	2.140%
33	13.146	1567	1579	1596	rBV2	280685	875121	13.22%	1.183%
34	13.340	1607	1616	1625	rBV	252312	607431	9.18%	0.821%
35	13.570	1651	1660	1666	rBV	418855	1062267	16.05%	1.435%
36	13.669	1673	1679	1693	rVB	699516	1522539	23.00%	2.057%
37	13.805	1693	1705	1721	rVB	1268538	3189028	48.18%	4.309%
38	13.926	1721	1728	1741	rBV4	28309	82524	1.25%	0.112%
39	14.077	1741	1757	1769	rBV5	229112	713537	10.78%	0.964%
40	14.197	1769	1780	1789	rVV4	93456	288652	4.36%	0.390%
41	14.281	1789	1796	1804	rVV2	100250	218774	3.31%	0.296%
42	14.375	1806	1814	1822	rVB4	49519	116012	1.75%	0.157%
43	14.459	1822	1830	1834	rBV	58257	131463	1.99%	0.178%

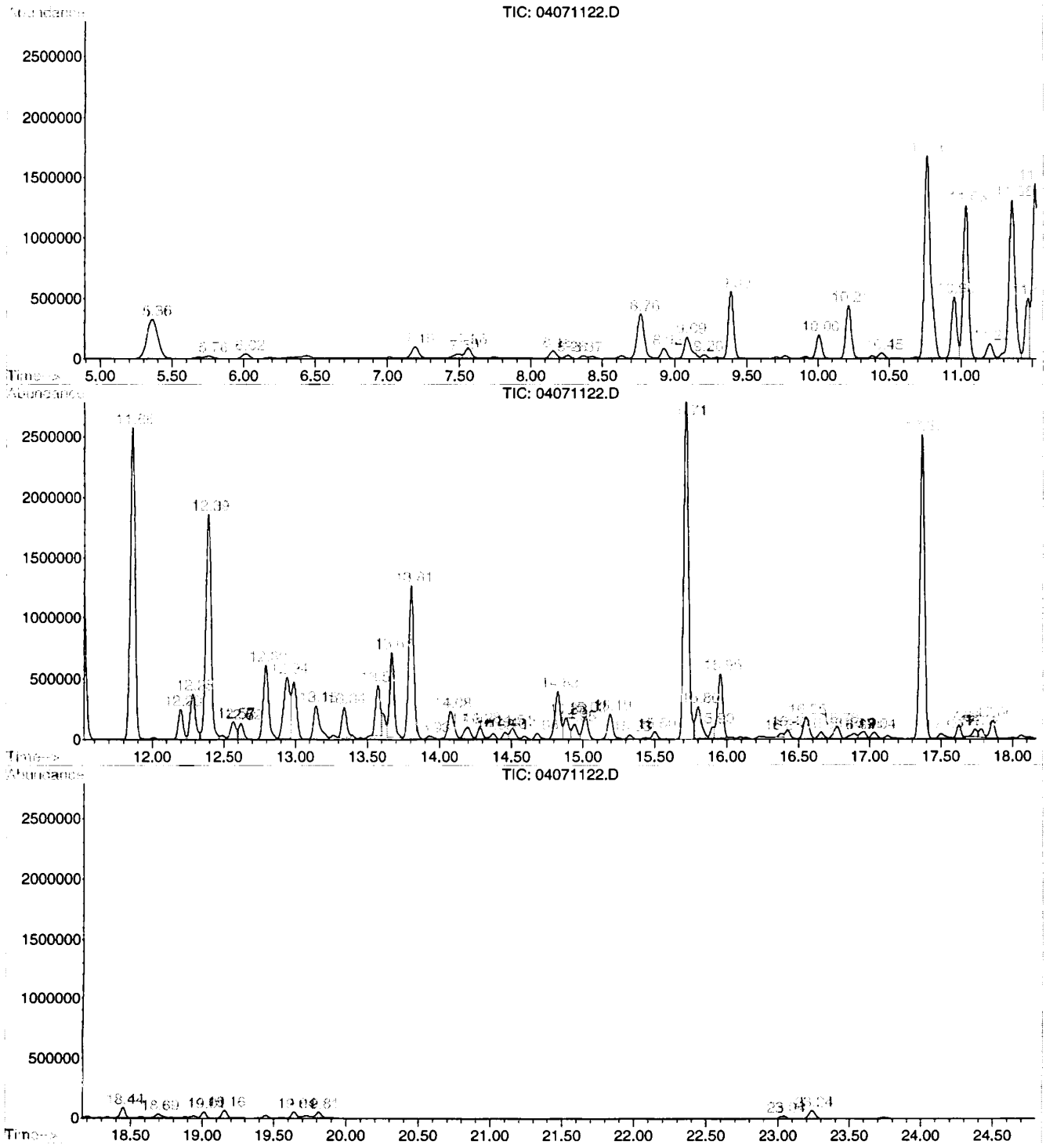
44	14.506	1834	1839	1849	rVV6	86682	224251	3.39%	0.303%
45	14.684	1864	1873	1887	rBV2	51978	135213	2.04%	0.183%
46	14.825	1887	1900	1907	rBV	397232	1052891	15.91%	1.423%
47	14.883	1907	1911	1918	rVV	178613	447635	6.76%	0.605%
48	14.945	1918	1923	1930	rVV4	123187	320097	4.84%	0.433%
49	15.019	1930	1937	1950	rVB3	196765	512594	7.74%	0.693%
50	15.191	1956	1970	1988	rBV2	213412	559819	8.46%	0.756%
51	15.327	1988	1996	2005	rVV3	35888	79923	1.21%	0.108%
52	15.500	2021	2029	2039	rVB2	63120	151581	2.29%	0.205%
53	15.714	2056	2070	2081	rBV	2792636	6618395	100.00%	8.944%
54	15.803	2082	2087	2100	rVV	265332	727126	10.99%	0.983%
55	15.902	2100	2106	2108	rVV2	93213	174724	2.64%	0.236%
56	15.955	2108	2116	2126	rVB	525217	1305905	19.73%	1.765%
57	16.378	2190	2197	2201	rBV2	30943	69527	1.05%	0.094%
58	16.426	2201	2206	2216	rVB2	72975	169510	2.56%	0.229%
59	16.546	2219	2229	2241	rBV4	175322	498440	7.53%	0.674%
60	16.661	2241	2251	2260	rBV3	55633	146196	2.21%	0.198%
61	16.776	2260	2273	2282	rVB6	101191	304282	4.60%	0.411%
62	16.891	2282	2295	2300	rBV9	43126	148212	2.24%	0.200%
63	16.959	2300	2308	2315	rVV6	52864	153774	2.32%	0.208%
64	17.037	2315	2323	2331	rVB5	50189	133927	2.02%	0.181%
65	17.367	2369	2386	2402	rBV	2518662	5668490	85.65%	7.660%
66	17.503	2402	2412	2426	rBV5	40774	131767	1.99%	0.178%
67	17.623	2426	2435	2443	rBV3	109145	224019	3.38%	0.303%
68	17.738	2449	2457	2460	rBV3	60461	136262	2.06%	0.184%
69	17.780	2461	2465	2472	rVV	70858	148240	2.24%	0.200%
70	17.859	2472	2480	2490	rVB2	148539	354322	5.35%	0.479%
71	18.444	2579	2592	2602	rBV	86737	204749	3.09%	0.277%
72	18.690	2625	2639	2646	rBV6	33417	98583	1.49%	0.133%
73	19.014	2693	2701	2710	rVB	53745	122920	1.86%	0.166%
74	19.156	2718	2728	2738	rBV5	67105	173795	2.63%	0.235%
75	19.642	2812	2821	2827	rBV	51173	125446	1.90%	0.170%
76	19.809	2846	2853	2863	rVB3	45919	111468	1.68%	0.151%
77	23.042	3460	3471	3480	rVB5	22637	71702	1.08%	0.097%
78	23.235	3495	3508	3519	rBV4	68323	213243	3.22%	0.288%

Sum of corrected areas: 74002037

04071122.D 040711V1.M Thu Apr 14 16:01:11 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071122.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 3:50 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-019A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 21
Quant File :040711V1.RES (RTE Integrator)



04071122.D 040711V1.M Thu Apr 14 16:01:11 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	4.37 ppbv	1773690	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- $$ Isohexan Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	3.13 ppbv	1270100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	1.51 ppbv	612305	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	3,4-Dimethyldihydrofuran-2,5-dione	128	C6H8O3	007475-92-5	42
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	1.28 ppbv	517307	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	2.93 ppbv	1187030	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	87
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
5	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	3.23 ppbv	1312330	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	83
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	8.42 ppbv	3984340	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	59

****

Peak Number 8 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	1.26 ppbv	596626	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	25
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	25
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	25
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	15
5	2-Hexen-1-ol, 2-ethyl- $$ 2-Ethyl-2	128	C8H16O	050639-00-4	9

****

Peak Number 9 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	2.11 ppbv	996744	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
3	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	43
4	Cyclobutane, 1,2-diethyl-	112	C8H16	061141-83-1	43
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	10.17 ppbv	4813970	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 11 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	3.46 ppbv	1639420	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64

****

Peak Number 12 Heptane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	3.35 ppbv	1583960	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	64
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	53
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	50

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.85 ppbv	875121	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	47

****

Peak Number 14 Hexane, 2,2,5-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	1.28 ppbv	607431	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83

****

Peak Number 15 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	2.25 ppbv	1062270	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Octane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.22 ppbv	1522540	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	90
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Octane	114	C8H18	000111-65-9	76

****

Peak Number 17 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	1.35 ppbv	713537	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 18 Cyclohexane, ethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.99 ppbv	1052890	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Data File : C:\HPCHEM\1\DATA\040711\04071122.D Vial: 21
Acq On : 8 Apr 2011 3:50 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	0.97 ppbv	512594	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	87
2	Octane	114	C8H18	000111-65-9	64
3	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	59
4	Nonane	128	C9H20	000111-84-2	52
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	50

****

Peak Number 20 Octane, 3-methyl- $$ 3-Methylo Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	1.06 ppbv	559819	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl- $$ 3-Methyloctane	128	C9H20	002216-33-3	38
2	Heptane, 3-ethyl-2-methyl- $$ 2-Met	142	C10H22	014676-29-0	37
3	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	35
4	Hexane, 3-ethyl-4-methyl- $$ 3-Ethy	128	C9H20	003074-77-9	35
5	Hexane, 4-ethyl-2-methyl- $$ 4-Ethy	128	C9H20	003074-75-7	35

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 3:50 am
Data File: C:\HPCHEM\1\DATA\040711\04071122.D
Name: 1103609-019A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	4.4	ppbv	1773690	ISTD01	10.76	5071110	12.5
Pentane, 2-methyl- $	8.76	3.1	ppbv	1270100	ISTD01	10.76	5071110	12.5
Pentane, 3-methyl-	9.09	1.5	ppbv	612305	ISTD01	10.76	5071110	12.5
Pentane, 2,4-dimethy	10.00	1.3	ppbv	517307	ISTD01	10.76	5071110	12.5
Cyclopentane, methyl	10.21	2.9	ppbv	1187030	ISTD01	10.76	5071110	12.5
Pentane, 2,3-dimethy	10.95	3.2	ppbv	1312330	ISTD01	10.76	5071110	12.5
Pentane, 2,2,4-trime	11.36	8.4	ppbv	3984340	ISTD02	11.86	5914280	12.5
Hexane, 2,5-dimethyl	12.20	1.3	ppbv	596626	ISTD02	11.86	5914280	12.5
Hexane, 1-(hexyloxy)	12.28	2.1	ppbv	996744	ISTD02	11.86	5914280	12.5
Cyclohexane, methyl-	12.39	10.2	ppbv	4813970	ISTD02	11.86	5914280	12.5
Pentane, 2,3,4-trime	12.80	3.5	ppbv	1639420	ISTD02	11.86	5914280	12.5
Heptane, 2-methyl-	12.94	3.3	ppbv	1583960	ISTD02	11.86	5914280	12.5
Heptane, 3-methyl-	13.15	1.8	ppbv	875121	ISTD02	11.86	5914280	12.5
Hexane, 2,2,5-trimet	13.34	1.3	ppbv	607431	ISTD02	11.86	5914280	12.5
Cyclohexane, 1,3-dim	13.57	2.2	ppbv	1062270	ISTD02	11.86	5914280	12.5
Octane	13.67	3.2	ppbv	1522540	ISTD02	11.86	5914280	12.5
Cyclohexane, 1,2-dim	14.08	1.3	ppbv	713537	ISTD03	15.71	6618400	12.5
Cyclohexane, ethyl-	14.83	2.0	ppbv	1052890	ISTD03	15.71	6618400	12.5
Octane, 4-methyl-	15.02	1.0	ppbv	512594	ISTD03	15.71	6618400	12.5
Octane, 3-methyl- $$	15.19	1.1	ppbv	559819	ISTD03	15.71	6618400	12.5

04071122.D 040711V1.M Thu Apr 14 16:01:12 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:44 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

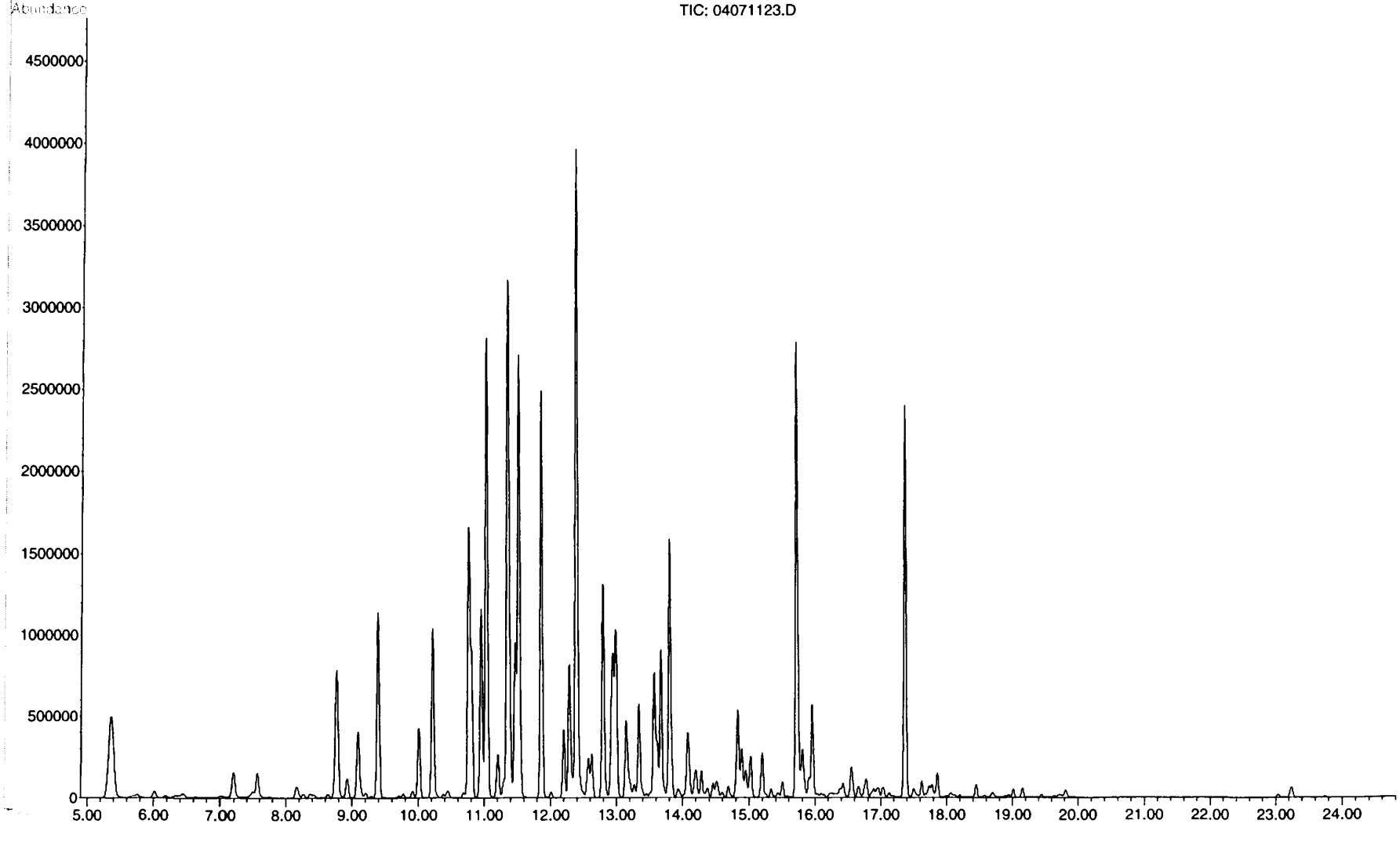
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	725433	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2548277	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1818631	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1106799	12.12	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.96%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	722002	7.07	ppbv		96
29) Cyclohexane	11.03	56	1286151	12.57	ppbv	#	78
31) Benzene	11.48	78	617697	3.79	ppbv		96
34) Heptane	11.52	43	1157366	9.97	ppbv	#	92
41) Toluene	13.80	91	1419888	8.06	ppbv		98
50) Ethylbenzene	15.80	91	249228	1.31	ppbv		95
51) m,p-Xylene	15.95	91	416079	2.87	ppbv		93

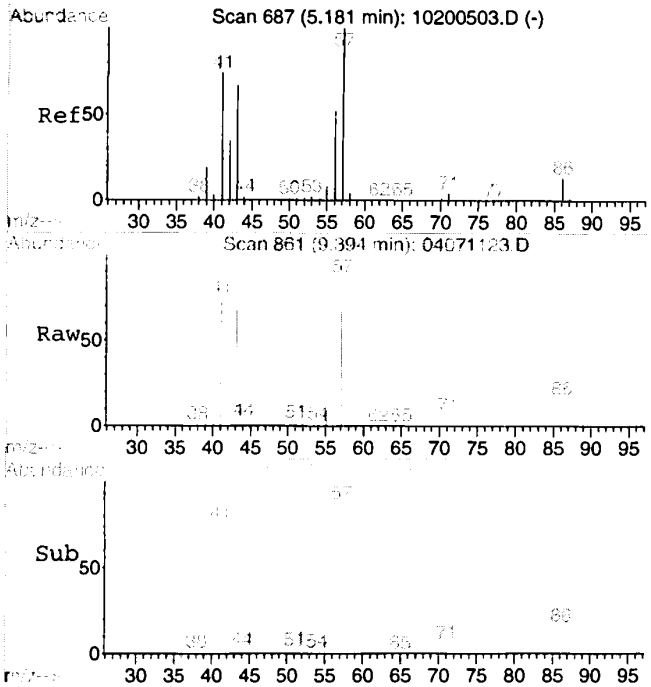
(#) = qualifier out of range (m) = manual integration
04071123.D 040711V1.M Thu Apr 14 16:01:18 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:44 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

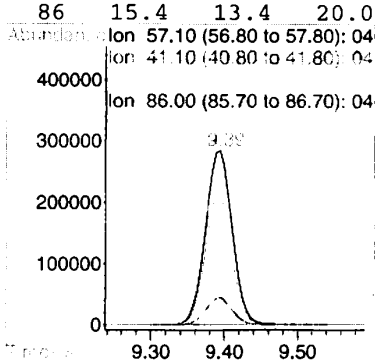


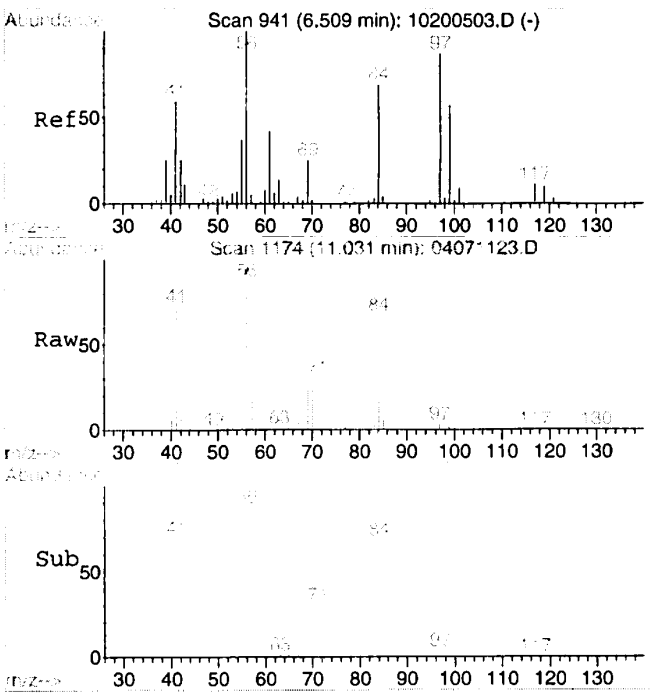


#20
n-Hexane
Concen: 7.07 ppbv
RT: 9.39 min Scan# 861
Delta R.T. 0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 57 Resp: 722002

Ion	Ratio	Lower	Upper
57	100		
41	75.5	57.2	85.8
53	2.5	1.8	2.8
86	15.4	13.4	20.0

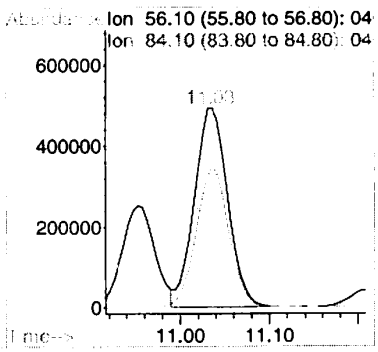


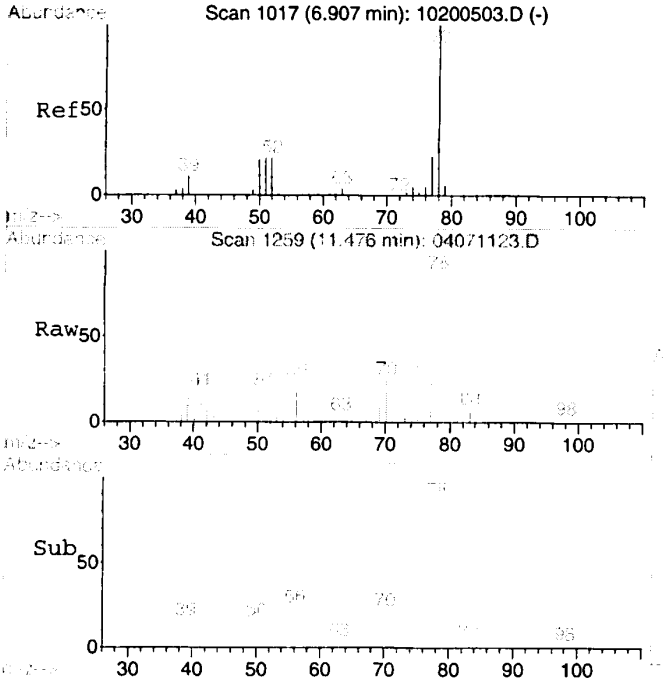


#29
Cyclohexane
Concen: 12.57 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 56 Resp: 1286151

Ion	Ratio	Lower	Upper
56	100		
84	69.8	72.4	108.6#
41	71.6	43.8	65.8#

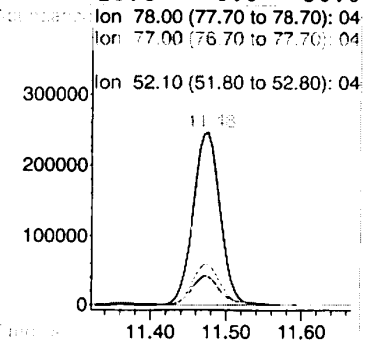


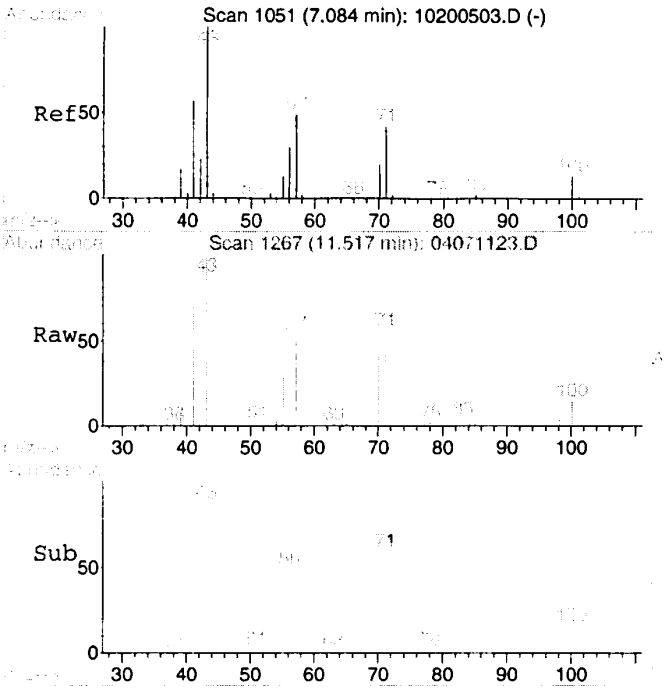


#31
Benzene
Concen: 3.79 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 78 Resp: 617697

Ion	Ratio	Lower	Upper
78	100		
77	25.4	3.7	43.7
51	17.9	0.0	36.1
52	18.4	0.0	36.0

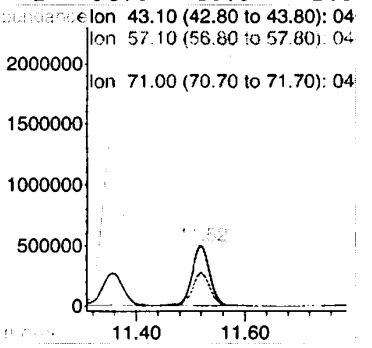


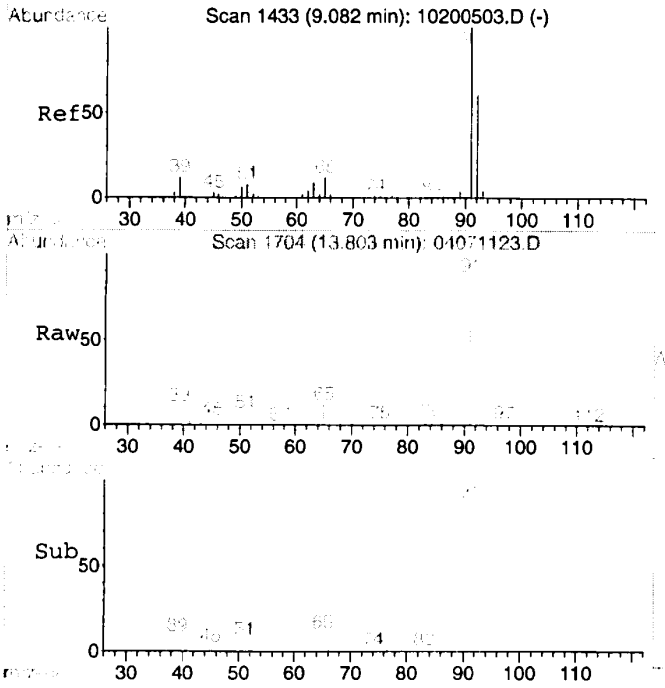


#34
Heptane
Concen: 9.97 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 43 Resp: 1157366

Ion	Ratio	Lower	Upper
43	100		
57	55.8	42.2	63.4
100	14.9	17.3	25.9#
71	54.0	48.3	72.5

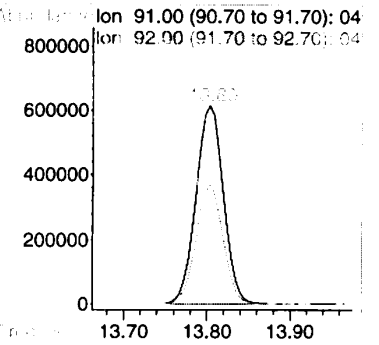


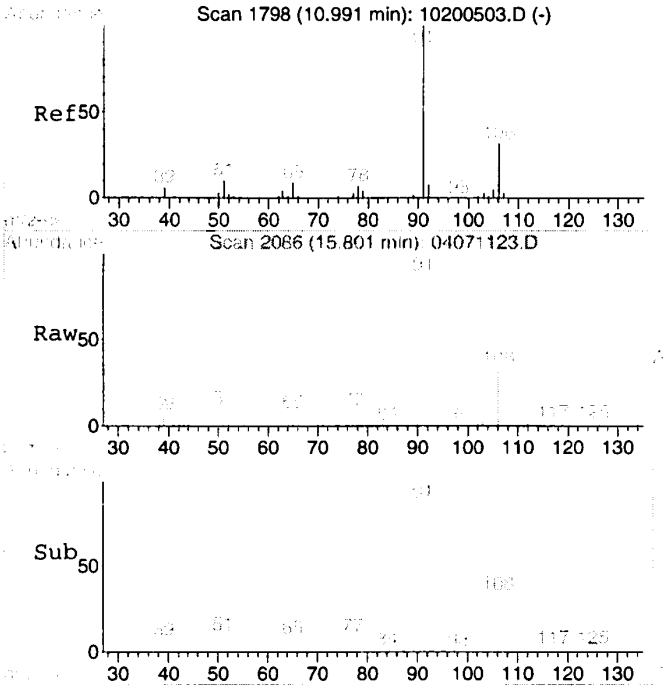


#41
Toluene
Concen: 8.06 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 91 Resp: 1419888

Ion	Ratio	Lower	Upper
91	100		
92	59.1	40.5	80.5
65	11.5	0.0	31.2

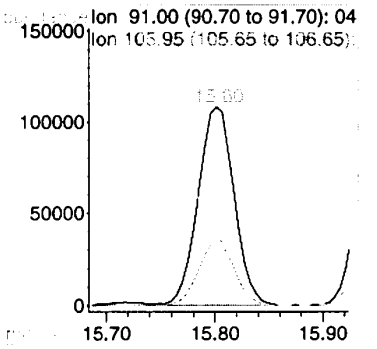


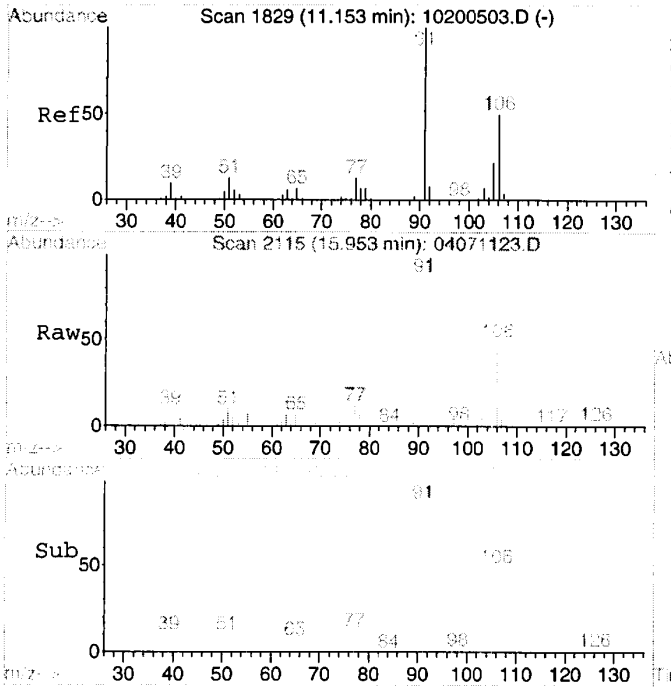


#50
Ethylbenzene
Concen: 1.31 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 91 Resp: 249228

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.1	0.0	33.1

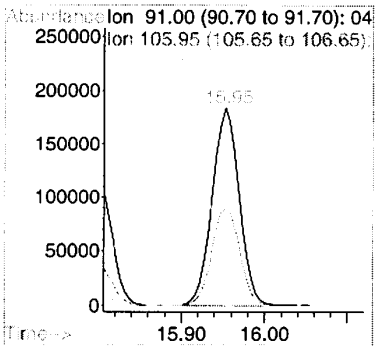




#51
m,p-Xylene
Concen: 2.87 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04071123.D
Acq: 8 Apr 2011 4:30 am

Tgt Ion: 91 Resp: 416079

Ion	Ratio	Lower	Upper
91	100		
106	50.2	35.6	75.6
51	10.5	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.362	65	90	124	rBV	499672	2731623	27.00%	2.359%
2	6.010	202	214	228	rBV4	43321	150939	1.49%	0.130%
3	7.192	424	440	454	rBV2	152583	516621	5.11%	0.446%
4	7.490	482	497	502	rBV2	34823	126712	1.25%	0.109%
5	7.563	502	511	530	rVB	151425	493246	4.88%	0.426%
6	8.165	614	626	637	rBV4	70728	251459	2.49%	0.217%
7	8.772	726	742	761	rVV2	785591	2546939	25.17%	2.199%
8	8.928	761	772	787	rVV2	121650	353809	3.50%	0.305%
9	9.091	790	803	819	rVV2	408231	1247474	12.33%	1.077%
10	9.394	849	861	882	rVB	1142754	2887614	28.54%	2.493%
11	9.912	949	960	967	rBV2	44014	117290	1.16%	0.101%
12	10.006	967	978	993	rVB	429145	1140128	11.27%	0.984%
13	10.215	1005	1018	1039	rBV	1046113	2778582	27.46%	2.399%
14	10.445	1054	1062	1073	rVB4	44018	133639	1.32%	0.115%
15	10.764	1112	1123	1147	rVB2	1662957	6079945	60.09%	5.250%
16	10.953	1147	1159	1166	rBV	1159011	2982918	29.48%	2.576%
17	11.031	1166	1174	1190	rVB2	2811869	7243962	71.60%	6.255%
18	11.204	1196	1207	1217	rBV3	262208	731536	7.23%	0.632%
19	11.355	1217	1236	1250	rVV	3168103	9566182	94.55%	8.260%
20	11.470	1250	1258	1261	rVV2	948982	2181407	21.56%	1.883%
21	11.523	1261	1268	1284	rVB2	2705155	6780605	67.02%	5.855%
22	11.863	1321	1333	1345	rBV	2495732	5759057	56.92%	4.973%
23	12.197	1384	1397	1405	rBV2	419314	1000381	9.89%	0.864%
24	12.286	1405	1414	1423	rVV2	819815	2196548	21.71%	1.897%
25	12.391	1424	1434	1458	rVV	3972522	10117427	100.00%	8.736%
26	12.569	1458	1468	1473	rVV6	244141	681350	6.73%	0.588%
27	12.621	1473	1478	1491	rVB	271146	663097	6.55%	0.573%
28	12.794	1499	1511	1526	rBV	1315682	3436522	33.97%	2.967%
29	12.945	1526	1540	1543	rVV3	886139	2581224	25.51%	2.229%
30	12.987	1545	1548	1565	rVB3	1035913	2326802	23.00%	2.009%
31	13.149	1567	1579	1595	rBV2	469861	1510997	14.93%	1.305%
32	13.264	1595	1601	1607	rVV4	72605	184614	1.82%	0.159%
33	13.338	1607	1615	1631	rVB	565476	1469616	14.53%	1.269%
34	13.573	1650	1660	1666	rBV2	737948	1926805	19.04%	1.664%
35	13.672	1672	1679	1693	rVB	887535	2005427	19.82%	1.732%
36	13.803	1693	1704	1720	rVB	1588651	4128922	40.81%	3.565%
37	13.929	1720	1728	1740	rBV4	54870	162742	1.61%	0.141%
38	14.080	1746	1757	1769	rBV3	378348	1097642	10.85%	0.948%
39	14.195	1769	1779	1789	rVV5	152373	457919	4.53%	0.395%
40	14.284	1789	1796	1804	rVV	148793	305859	3.02%	0.264%
41	14.373	1808	1813	1821	rVB6	60292	137912	1.36%	0.119%
42	14.457	1821	1829	1834	rBV2	89599	212809	2.10%	0.184%
43	14.509	1834	1839	1850	rVB5	89208	240170	2.37%	0.207%

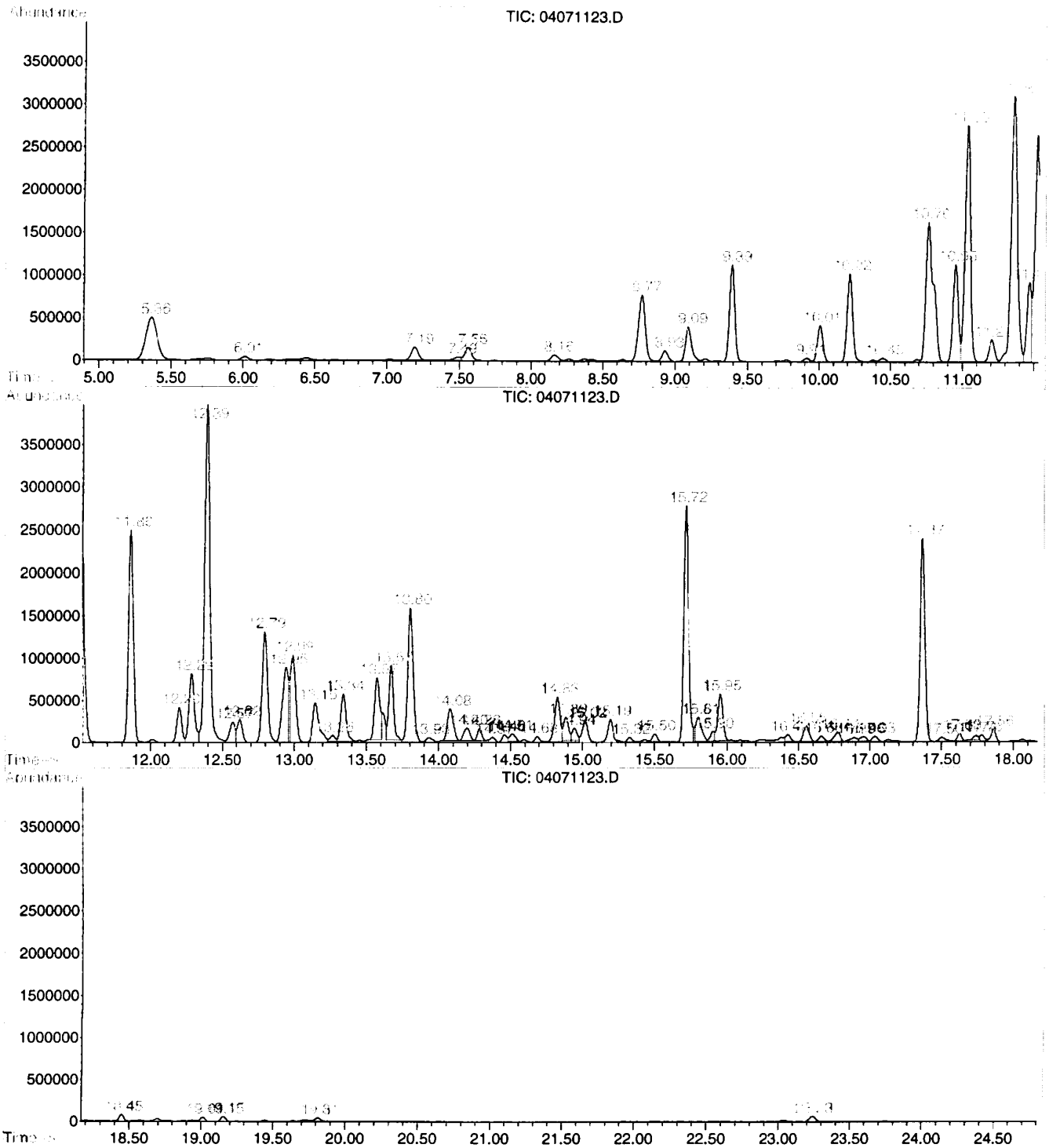
44	14.682	1864	1872	1886	rBV3	70376	180627	1.79%	0.156%
45	14.828	1886	1900	1906	rBV	535641	1437346	14.21%	1.241%
46	14.886	1906	1911	1918	rVV	280118	691186	6.83%	0.597%
47	14.943	1918	1922	1929	rVV3	148144	343399	3.39%	0.297%
48	15.022	1929	1937	1952	rVB2	253998	686796	6.79%	0.593%
49	15.194	1956	1970	1979	rBV2	277084	693943	6.86%	0.599%
50	15.325	1988	1995	2005	rBV3	53675	124233	1.23%	0.107%
51	15.498	2021	2028	2039	rVB	95392	225969	2.23%	0.195%
52	15.717	2058	2070	2080	rBV	2787088	6518458	64.43%	5.628%
53	15.806	2082	2087	2099	rVV2	287033	785511	7.76%	0.678%
54	15.900	2099	2105	2108	rVV2	111197	227797	2.25%	0.197%
55	15.953	2108	2115	2126	rVB	556586	1367935	13.52%	1.181%
56	16.423	2201	2205	2216	rVB	84939	192152	1.90%	0.166%
57	16.549	2216	2229	2241	rBV3	183734	515851	5.10%	0.445%
58	16.659	2241	2250	2259	rBV2	64489	169209	1.67%	0.146%
59	16.774	2259	2272	2281	rVB5	109475	331669	3.28%	0.286%
60	16.889	2281	2294	2300	rBV10	47593	164274	1.62%	0.142%
61	16.957	2300	2307	2314	rVB7	51013	145651	1.44%	0.126%
62	17.030	2314	2321	2333	rVB6	60449	163254	1.61%	0.141%
63	17.370	2372	2386	2400	rBV	2402024	5474176	54.11%	4.727%
64	17.501	2400	2411	2426	rBV5	49500	154404	1.53%	0.133%
65	17.626	2427	2435	2441	rVV4	90613	178773	1.77%	0.154%
66	17.736	2448	2456	2460	rBV3	53021	132269	1.31%	0.114%
67	17.778	2461	2464	2471	rVV	70539	134847	1.33%	0.116%
68	17.856	2472	2479	2491	rVB2	147787	353742	3.50%	0.305%
69	18.447	2578	2592	2602	rBV	81183	189573	1.87%	0.164%
70	19.012	2692	2700	2711	rVB	51694	122839	1.21%	0.106%
71	19.153	2719	2727	2736	rVB5	57963	144065	1.42%	0.124%
72	19.812	2845	2853	2864	rVB	44055	115934	1.15%	0.100%
73	23.233	3496	3507	3519	rBV6	64113	205164	2.03%	0.177%

Sum of corrected areas: 115817518

04071123.D 040711V1.M Thu Apr 14 16:01:24 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071123.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 4:30 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-020A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 22
Quant File :040711V1.RES (RTE Integrator)



04071123.D 040711V1.M Thu Apr 14 16:01:24 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	5.62 ppbv	2731620	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- $$ Isohexan Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	5.24 ppbv	2546940	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	58
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	2.56 ppbv	1247470	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071123.D
Acq On : 8 Apr 2011 4:30 am
Sample : 1103609-020A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 22
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	2.34 ppbv	1140130	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 5 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	5.71 ppbv	2778580	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 6 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	6.13 ppbv	2982920	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, 1,1-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	1.50 ppbv	731536	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	64
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	43
3	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	40
4	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	38
5	1-Hexene, 3,3,5-trimethyl-	126	C9H18	013427-43-5	25

****

Peak Number 8 Butane, 2,2,3,3-tetramethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	20.76 ppbv	9566180	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	2.17 ppbv	1000380	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	50
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	42
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	41
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	25
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	22

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 1-(hexyloxy)-5-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.77 ppbv	2196550	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
2	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
4	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	38
5	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	21.96 ppbv	10117400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	7.46 ppbv	3436520	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	58
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
5	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	50

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	5.60 ppbv	2581220	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	59
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58

****

Peak Number 14 Hexane, 2,3-dimethyl- $$ 2,3-D Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	5.05 ppbv	2326800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	50
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
3	Pentane, 3-ethyl-2-methyl- $$ 2-Met	114	C8H18	000609-26-7	39
4	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	39
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	38

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.28 ppbv	1511000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	50

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	3.19 ppbv	1469620	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.18 ppbv	1926810	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

****

Peak Number 18 Octane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	4.35 ppbv	2005430	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72

Data File : C:\HPCHEM\1\DATA\040711\04071123.D Vial: 22
Acq On : 8 Apr 2011 4:30 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	2.10 ppbv	1097640	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	94
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	83

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	2.76 ppbv	1437350	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94

Tentatively Identified Compound (LSC) summary

r ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 4:30 am
File: C:\HPCHEM\1\DATA\040711\04071123.D
Name: 1103609-020A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	5.6	ppbv	2731620	ISTD01	10.76	6079950	12.5
Pentane, 2-methyl- $	8.77	5.2	ppbv	2546940	ISTD01	10.76	6079950	12.5
Pentane, 3-methyl-	9.09	2.6	ppbv	1247470	ISTD01	10.76	6079950	12.5
Pentane, 2,4-dimethy	10.01	2.3	ppbv	1140130	ISTD01	10.76	6079950	12.5
Cyclopentane, methyl	10.22	5.7	ppbv	2778580	ISTD01	10.76	6079950	12.5
Pentane, 2,3-dimethy	10.95	6.1	ppbv	2982920	ISTD01	10.76	6079950	12.5
Cyclopentane, 1,1-di	11.20	1.5	ppbv	731536	ISTD01	10.76	6079950	12.5
Butane, 2,2,3,3-tetr	11.36	20.8	ppbv	9566180	ISTD02	11.86	5759060	12.5
Hexane, 2,5-dimethyl	12.20	2.2	ppbv	1000380	ISTD02	11.86	5759060	12.5
Hexane, 1-(hexyloxy)	12.29	4.8	ppbv	2196550	ISTD02	11.86	5759060	12.5
Cyclohexane, methyl-	12.39	22.0	ppbv	10117400	ISTD02	11.86	5759060	12.5
Pentane, 2,3,4-trime	12.79	7.5	ppbv	3436520	ISTD02	11.86	5759060	12.5
Heptane, 2-methyl-	12.95	5.6	ppbv	2581220	ISTD02	11.86	5759060	12.5
Hexane, 2,3-dimethyl	12.99	5.1	ppbv	2326800	ISTD02	11.86	5759060	12.5
Heptane, 3-methyl-	13.15	3.3	ppbv	1511000	ISTD02	11.86	5759060	12.5
Hexane, 2,2,5-trimet	13.34	3.2	ppbv	1469620	ISTD02	11.86	5759060	12.5
Cyclohexane, 1,3-dim	13.57	4.2	ppbv	1926810	ISTD02	11.86	5759060	12.5
Octane	13.67	4.4	ppbv	2005430	ISTD02	11.86	5759060	12.5
Cyclohexane, 1,2-dim	14.08	2.1	ppbv	1097640	ISTD03	15.72	6518460	12.5
Cyclohexane, ethyl-	14.83	2.8	ppbv	1437350	ISTD03	15.72	6518460	12.5

04071123.D 040711V1.M Thu Apr 14 16:01:25 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:44 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

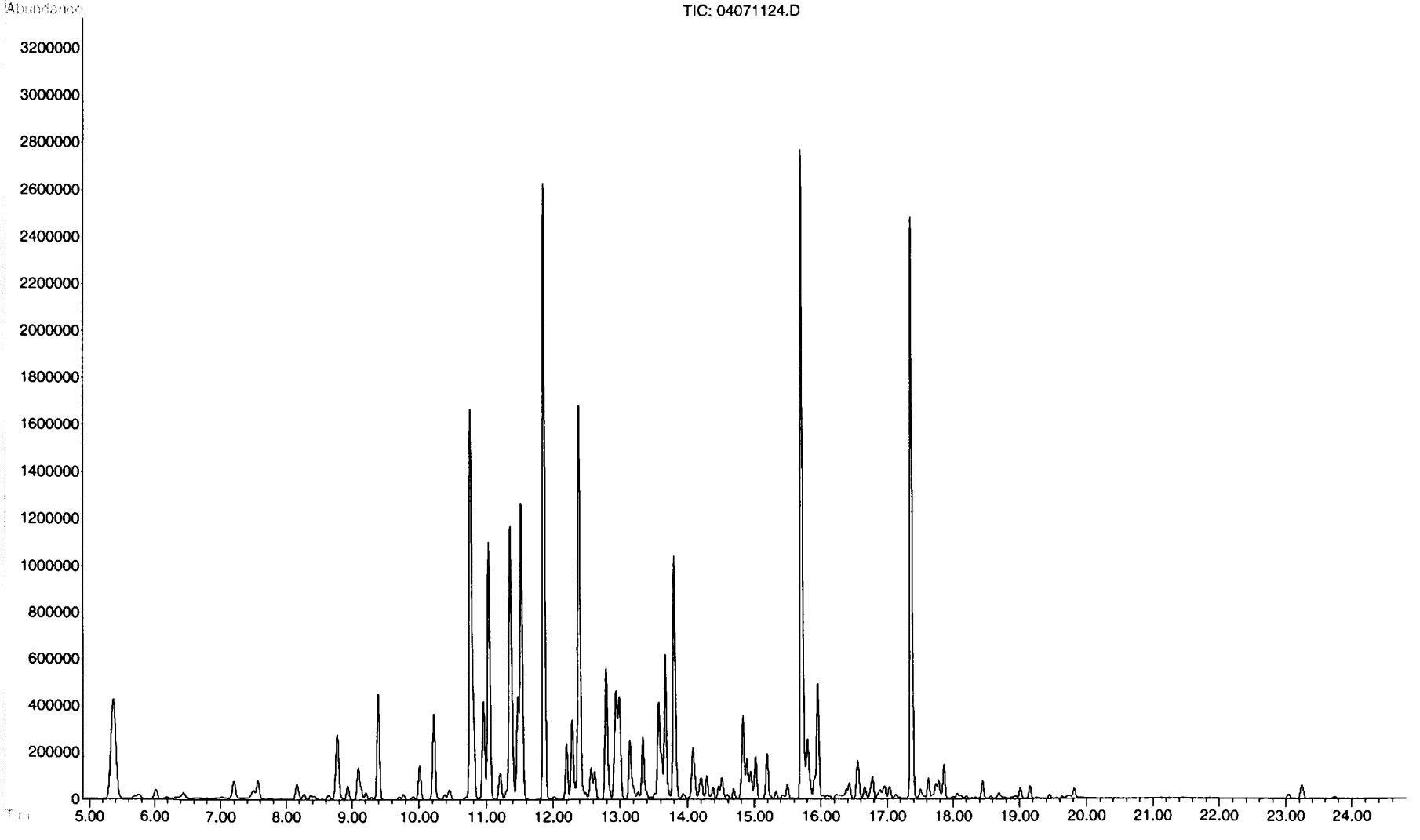
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	732883	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2660509	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1871720	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1130269	12.02	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.16%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	284049	2.75	ppbv		95
29) Cyclohexane	11.03	56	497174	4.81	ppbv	#	77
31) Benzene	11.47	78	319420	1.94	ppbv		96
34) Heptane	11.52	43	560941	4.63	ppbv	#	94
41) Toluene	13.80	91	955962	5.20	ppbv		98
50) Ethylbenzene	15.80	91	220063	1.13	ppbv		94
51) m,p-Xylene	15.95	91	366869	2.46	ppbv		93

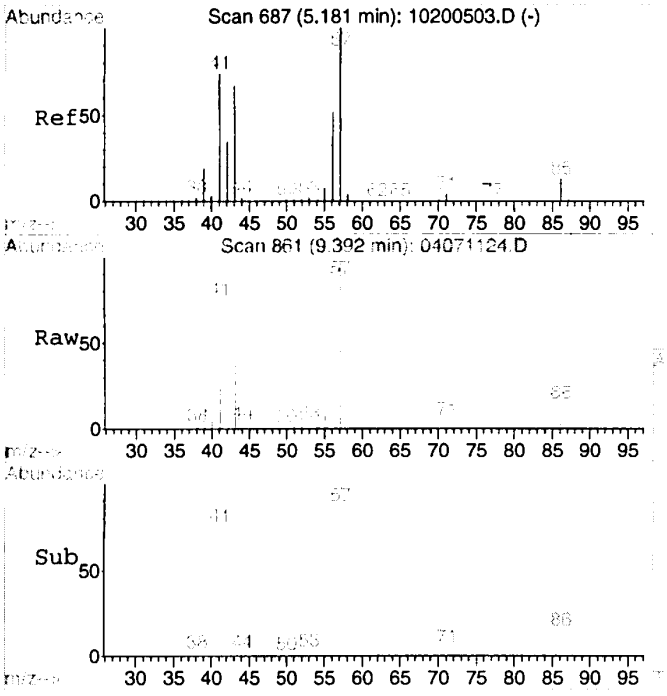
(#) = qualifier out of range (m) = manual integration
04071124.D 040711V1.M Thu Apr 14 16:01:32 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:44 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

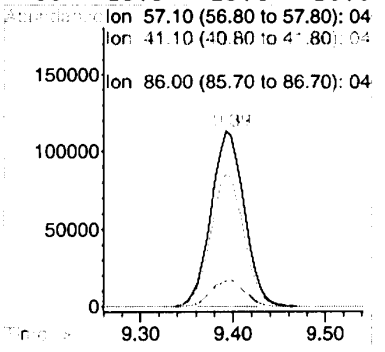


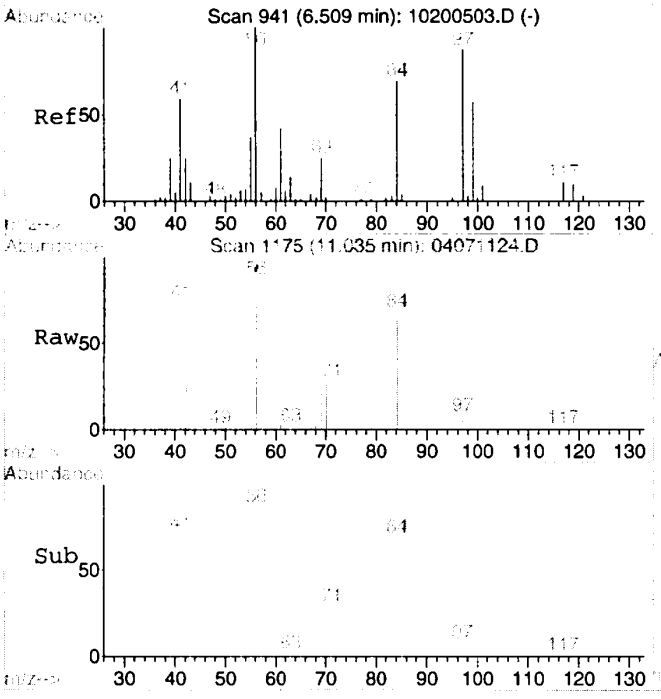


#20
n-Hexane
Concen: 2.75 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 57 Resp: 284049

Ion	Ratio	Lower	Upper
57	100		
41	76.3	57.2	85.8
53	2.5	1.8	2.8
86	15.3	13.4	20.0

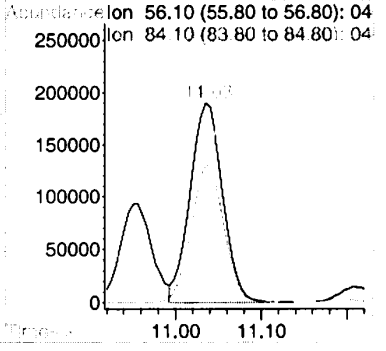


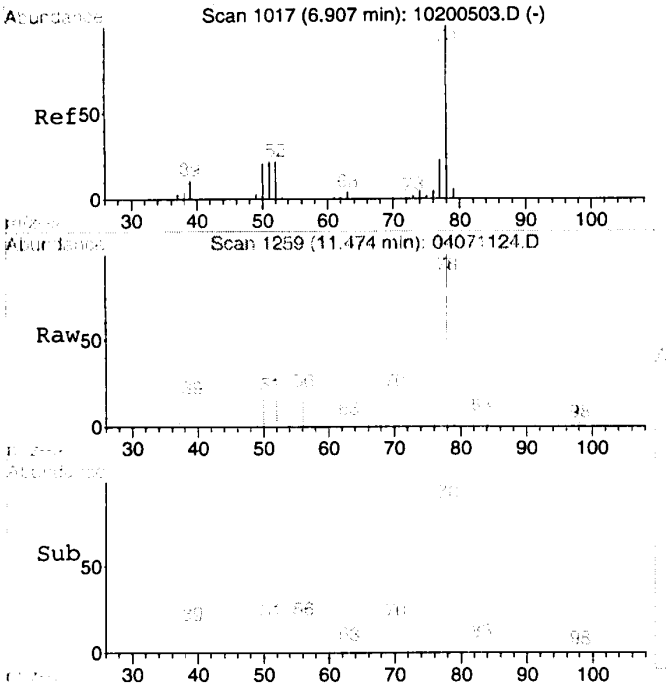


#29
Cyclohexane
Concen: 4.81 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 56 Resp: 497174

Ion	Ratio	Lower	Upper
56	100		
84	69.6	72.4	108.6#
41	72.4	43.8	65.8#

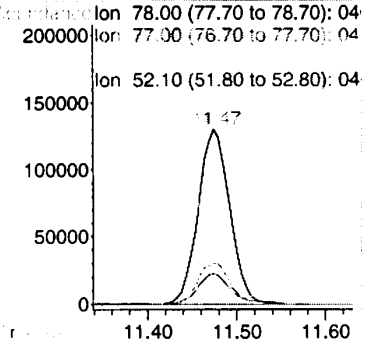


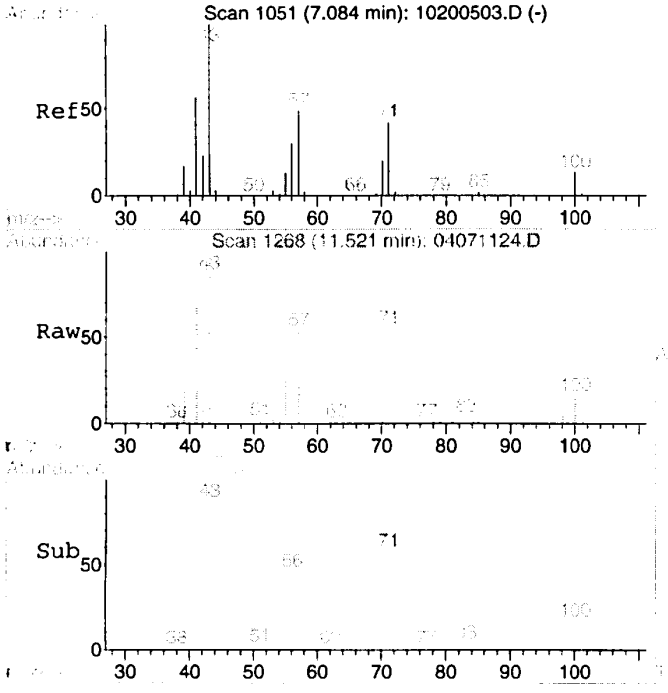


#31
Benzene
Concen: 1.94 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 78 Resp: 319420

Ion	Ratio	Lower	Upper
78	100		
77	24.7	3.7	43.7
51	18.5	0.0	36.1
52	18.4	0.0	36.0

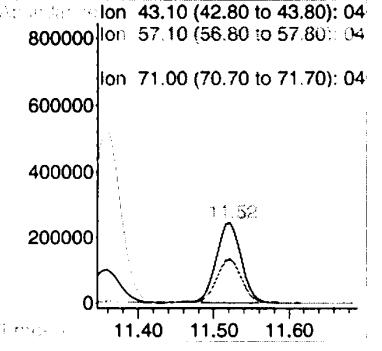


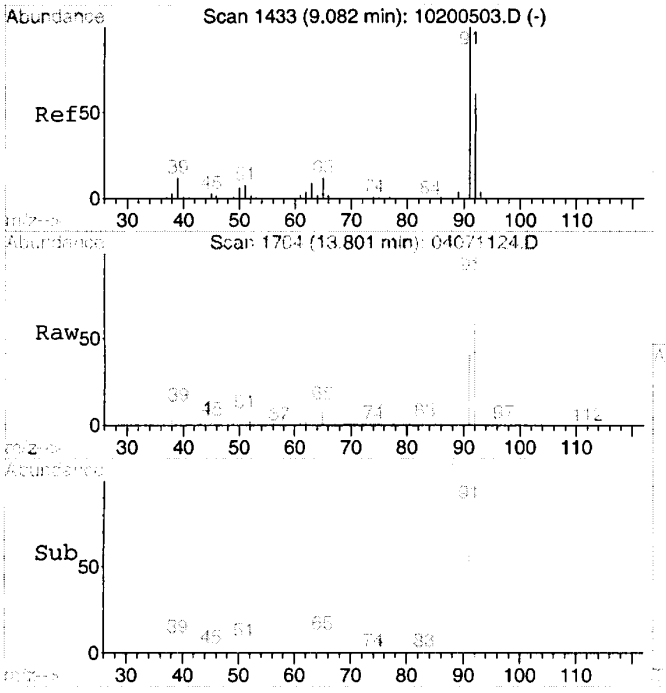


#34
Heptane
Concen: 4.63 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 43 Resp: 560941

Ion	Ratio	Lower	Upper
43	100		
57	54.0	42.2	63.4
100	15.7	17.3	25.9#
71	54.9	48.3	72.5

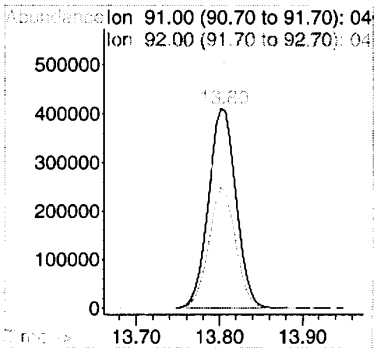


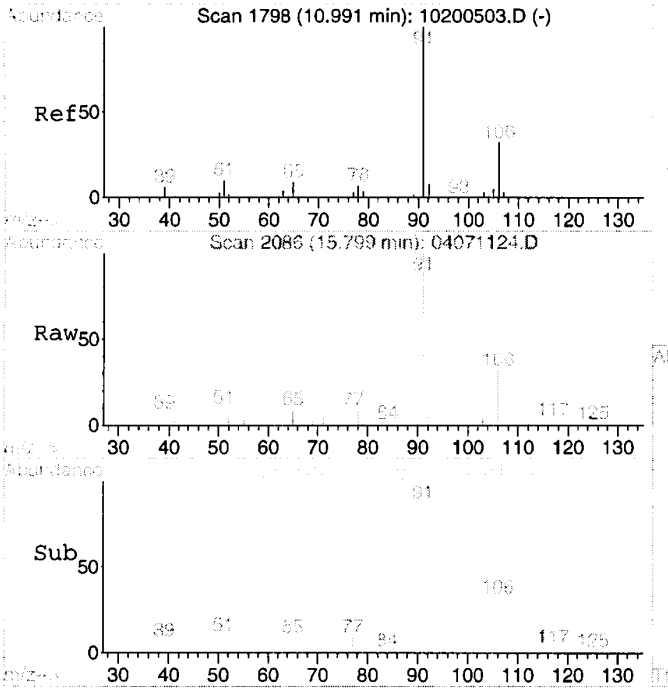


#41
Toluene
Concen: 5.20 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 91 Resp: 955962

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.3	0.0	31.2

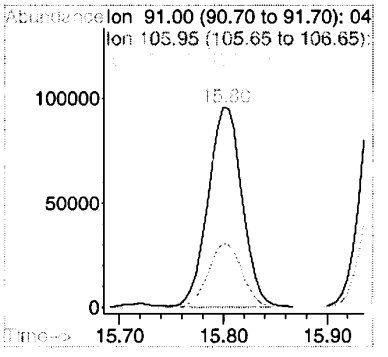


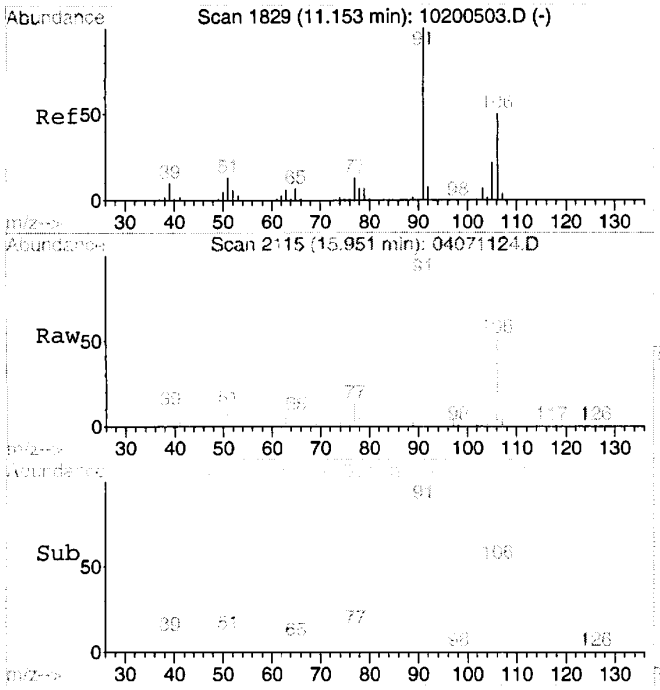


#50
Ethylbenzene
Concen: 1.13 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 91 Resp: 220063

Ion	Ratio	Lower	Upper
91	100		
106	31.4	14.9	54.9
51	10.9	0.0	33.1

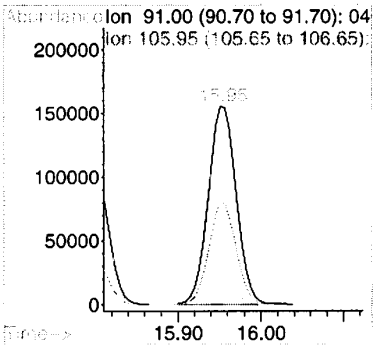




#51
m,p-Xylene
Concen: 2.46 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071124.D
Acq: 8 Apr 2011 5:11 am

Tgt Ion: 91 Resp: 366869

Ion	Ratio	Lower	Upper
91	100		
106	50.2	35.6	75.6
51	10.6	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.365	66	91	125	rBV	429384	2325055	35.74%	3.377%
2	5.757	159	166	183	rVB	22396	87003	1.34%	0.126%
3	6.019	203	216	229	rVB3	43839	155120	2.38%	0.225%
4	6.437	290	296	312	rVB5	26708	91781	1.41%	0.133%
5	7.190	427	440	456	rBV2	75946	263313	4.05%	0.383%
6	7.499	485	499	503	rBV3	34581	122273	1.88%	0.178%
7	7.562	504	511	525	rVB3	81768	253996	3.90%	0.369%
8	8.163	613	626	638	rBV4	68215	221527	3.40%	0.322%
9	8.268	638	646	655	rVB3	25364	73431	1.13%	0.107%
10	8.639	706	717	727	rBV2	22075	66361	1.02%	0.096%
11	8.770	727	742	762	rVV2	276532	963355	14.81%	1.399%
12	8.927	762	772	783	rVB4	61779	167599	2.58%	0.243%
13	9.094	792	804	820	rBV2	136289	493468	7.58%	0.717%
14	9.204	820	825	835	rVV	33839	83699	1.29%	0.122%
15	9.392	850	861	877	rVB	452335	1136093	17.46%	1.650%
16	10.010	968	979	992	rVB2	146576	391230	6.01%	0.568%
17	10.219	1007	1019	1036	rBV	369828	985950	15.15%	1.432%
18	10.444	1055	1062	1072	rVB3	43920	130180	2.00%	0.189%
19	10.763	1112	1123	1144	rVB2	1666586	4886520	75.10%	7.098%
20	10.956	1148	1160	1167	rBV	419622	1105694	16.99%	1.606%
21	11.035	1167	1175	1193	rVB2	1104508	2859165	43.94%	4.153%
22	11.207	1196	1208	1217	rBV5	113650	336535	5.17%	0.489%
23	11.359	1217	1237	1250	rVV	1167125	3541948	54.44%	5.145%
24	11.469	1250	1258	1262	rVV2	436600	1086437	16.70%	1.578%
25	11.521	1262	1268	1283	rVB2	1265905	3112149	47.83%	4.521%
26	11.861	1321	1333	1350	rBV	2635472	5991352	92.09%	8.703%
27	12.201	1386	1398	1405	rBV2	239093	559392	8.60%	0.813%
28	12.285	1405	1414	1423	rVV2	343077	910047	13.99%	1.322%
29	12.394	1424	1435	1450	rVV	1684630	4337591	66.67%	6.301%
30	12.572	1458	1469	1474	rVV8	137015	387235	5.95%	0.563%
31	12.619	1474	1478	1489	rVB2	121170	285105	4.38%	0.414%
32	12.797	1499	1512	1526	rBV2	562543	1526741	23.47%	2.218%
33	12.944	1526	1540	1544	rBV3	459808	1340858	20.61%	1.948%
34	13.148	1568	1579	1596	rBV2	252069	793223	12.19%	1.152%
35	13.341	1607	1616	1624	rBV	252429	603047	9.27%	0.876%
36	13.571	1651	1660	1667	rBV2	393266	1031473	15.85%	1.498%
37	13.671	1673	1679	1693	rVB	609916	1340498	20.60%	1.947%
38	13.801	1693	1704	1721	rVB	1044635	2662108	40.92%	3.867%
39	13.932	1721	1729	1740	rBV5	25904	75088	1.15%	0.109%
40	14.079	1740	1757	1769	rBV5	219599	686236	10.55%	0.997%
41	14.199	1769	1780	1789	rVV6	86451	272608	4.19%	0.396%
42	14.283	1789	1796	1806	rVV2	95556	214779	3.30%	0.312%
43	14.371	1806	1813	1822	rVB3	47590	115459	1.77%	0.168%

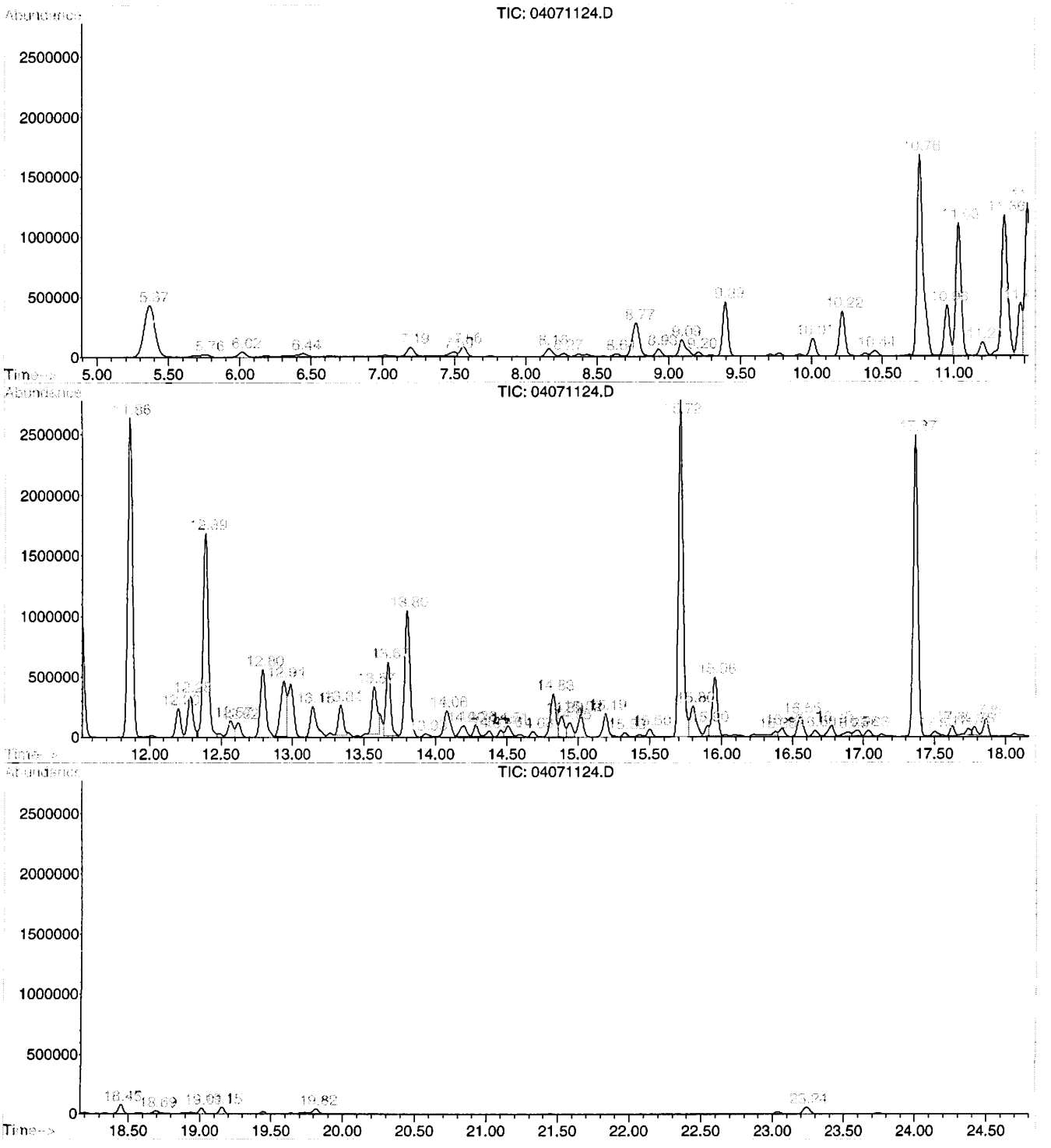
44	14.460	1822	1830	1833	rBV	54439	113569	1.75%	0.165%
45	14.507	1833	1839	1849	rVV4	88851	240636	3.70%	0.350%
46	14.680	1865	1872	1887	rBV4	47629	120474	1.85%	0.175%
47	14.826	1887	1900	1907	rBV	358698	972334	14.94%	1.412%
48	14.889	1907	1912	1918	rVV2	172082	433288	6.66%	0.629%
49	14.947	1918	1923	1929	rVV3	118920	294320	4.52%	0.428%
50	15.020	1929	1937	1950	rVB2	183998	481799	7.41%	0.700%
51	15.193	1957	1970	1979	rBV2	197081	503266	7.74%	0.731%
52	15.329	1988	1996	2005	rBV2	36288	82218	1.26%	0.119%
53	15.501	2022	2029	2039	rVB2	66443	150943	2.32%	0.219%
54	15.716	2058	2070	2081	rBV	2775432	6506325	100.00%	9.451%
55	15.805	2081	2087	2099	rVV	252257	748168	11.50%	1.087%
56	15.904	2099	2106	2108	rVV2	87720	172202	2.65%	0.250%
57	15.956	2108	2116	2127	rVB	484640	1188267	18.26%	1.726%
58	16.380	2186	2197	2200	rBV3	31517	70282	1.08%	0.102%
59	16.427	2200	2206	2215	rVB2	67860	170780	2.62%	0.248%
60	16.552	2218	2230	2241	rBV3	164437	476316	7.32%	0.692%
61	16.657	2241	2250	2259	rBV5	50364	124203	1.91%	0.180%
62	16.777	2259	2273	2280	rVB4	91231	263807	4.05%	0.383%
63	16.887	2282	2294	2300	rBV7	36353	128682	1.98%	0.187%
64	16.960	2300	2308	2315	rVV6	50141	141558	2.18%	0.206%
65	17.034	2315	2322	2333	rVB6	49711	128107	1.97%	0.186%
66	17.368	2371	2386	2401	rBV	2483343	5576096	85.70%	8.100%
67	17.504	2401	2412	2420	rBV6	38144	108266	1.66%	0.157%
68	17.625	2427	2435	2442	rBV2	84585	173825	2.67%	0.253%
69	17.734	2449	2456	2460	rBV2	49346	113258	1.74%	0.165%
70	17.776	2461	2464	2471	rVV	69947	136240	2.09%	0.198%
71	17.860	2473	2480	2493	rVB2	146303	336010	5.16%	0.488%
72	18.446	2581	2592	2603	rBV	77786	181470	2.79%	0.264%
73	18.692	2628	2639	2653	rBV8	24073	68753	1.06%	0.100%
74	19.011	2693	2700	2709	rVB3	51409	118462	1.82%	0.172%
75	19.152	2716	2727	2737	rBV4	57136	138337	2.13%	0.201%
76	19.816	2845	2854	2864	rVB3	41400	109541	1.68%	0.159%
77	23.237	3497	3508	3520	rVB4	60257	195133	3.00%	0.283%

Sum of corrected areas: 68839657

04071124.D 040711V1.M Thu Apr 14 16:01:38 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071124.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 5:11 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-021A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 23
Quant File :040711V1.RES (RTE Integrator)



04071124.D 040711V1.M Thu Apr 14 16:01:38 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	5.95 ppbv	2325060	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	2.46 ppbv	963355	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	1.26 ppbv	493468	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	1.00 ppbv	391230	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	86
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	2.52 ppbv	985950	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	94
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	72
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	52

****

Peak Number 6 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	2.83 ppbv	1105690	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Butane, 2,2,3,3-tetramethyl- $ Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	7.39 ppbv	3541950	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72

****

Peak Number 8 Trichloroethylene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	1.17 ppbv	559392	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroethylene	130	C2HCl3	000079-01-6	97
2	Trichloroethylene $$ Ethene, trichl	130	C2HCl3	000079-01-6	97
3	Trichloroethylene	130	C2HCl3	000079-01-6	27
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	000000-00-0	18
5	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	15

****

Peak Number 9 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	1.90 ppbv	910047	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	64
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	50
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	40
4	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	38
5	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	9.05 ppbv	4337590	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 11 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	3.19 ppbv	1526740	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64

****

Peak Number 12 Heptane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	2.80 ppbv	1340860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	83
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	74
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	72
5	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.65 ppbv	793223	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53
4	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	50
5	Hexane, 2-methyl-	100	C7H16	000591-76-4	50

****

Peak Number 14 Hexane, 2,2,5-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	1.26 ppbv	603047	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	74
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72

****

Peak Number 15 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	2.15 ppbv	1031470	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Octane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	2.80 ppbv	1340500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
4	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72
5	Octane	114	C8H18	000111-65-9	68

****

Peak Number 17 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	1.32 ppbv	686236	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	81

****

Peak Number 18 Cyclohexane, ethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	1.87 ppbv	972334	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	76

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071124.D Vial: 23
Acq On : 8 Apr 2011 5:11 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	0.93 ppbv	481799	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	64
2	Octane, 4-methyl-	128	C9H20	002216-34-4	58
3	Nonane	128	C9H20	000111-84-2	58
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	50
5	Heptane, 2,6-dimethyl- $$ 2,6-Dimet	128	C9H20	001072-05-5	50

****

Peak Number 20 Octane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	0.97 ppbv	503266	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	47
2	Undecane, 2,6-dimethyl- $$ 2,6-Dime	184	C13H28	017301-23-4	37
3	Undecane, 5,6-dimethyl-	184	C13H28	017615-91-7	32
4	Heptane, 2,5-dimethyl- $$ 2,5-Dimet	128	C9H20	002216-30-0	27
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	27

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 5:11 am
Data File: C:\HPCHEM\1\DATA\040711\04071124.D
Name: 1103609-021A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.37	5.9	ppbv	2325060	ISTD01	10.76	4886520	12.5
Pentane, 2-methyl-	8.77	2.5	ppbv	963355	ISTD01	10.76	4886520	12.5
Pentane, 3-methyl-	9.09	1.3	ppbv	493468	ISTD01	10.76	4886520	12.5
Pentane, 2,4-dimethy	10.01	1.0	ppbv	391230	ISTD01	10.76	4886520	12.5
Cyclopentane, methyl	10.22	2.5	ppbv	985950	ISTD01	10.76	4886520	12.5
Pentane, 2,3-dimethy	10.96	2.8	ppbv	1105690	ISTD01	10.76	4886520	12.5
Butane, 2,2,3,3-tetr	11.36	7.4	ppbv	3541950	ISTD02	11.86	5991350	12.5
Trichloroethylene	12.20	1.2	ppbv	559392	ISTD02	11.86	5991350	12.5
Hexane, 1-(hexyloxy)	12.28	1.9	ppbv	910047	ISTD02	11.86	5991350	12.5
Cyclohexane, methyl-	12.39	9.0	ppbv	4337590	ISTD02	11.86	5991350	12.5
Pentane, 2,3,4-trime	12.80	3.2	ppbv	1526740	ISTD02	11.86	5991350	12.5
Heptane, 2-methyl-	12.94	2.8	ppbv	1340860	ISTD02	11.86	5991350	12.5
Heptane, 3-methyl-	13.15	1.7	ppbv	793223	ISTD02	11.86	5991350	12.5
Hexane, 2,2,5-trimet	13.34	1.3	ppbv	603047	ISTD02	11.86	5991350	12.5
Cyclohexane, 1,3-dim	13.57	2.2	ppbv	1031470	ISTD02	11.86	5991350	12.5
Octane	13.67	2.8	ppbv	1340500	ISTD02	11.86	5991350	12.5
Cyclohexane, 1,2-dim	14.08	1.3	ppbv	686236	ISTD03	15.72	6506330	12.5
Cyclohexane, ethyl-	14.83	1.9	ppbv	972334	ISTD03	15.72	6506330	12.5
Octane	15.02	0.9	ppbv	481799	ISTD03	15.72	6506330	12.5
Octane, 3-methyl-	15.19	1.0	ppbv	503266	ISTD03	15.72	6506330	12.5

04071124.D 040711V1.M Thu Apr 14 16:01:39 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:45 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

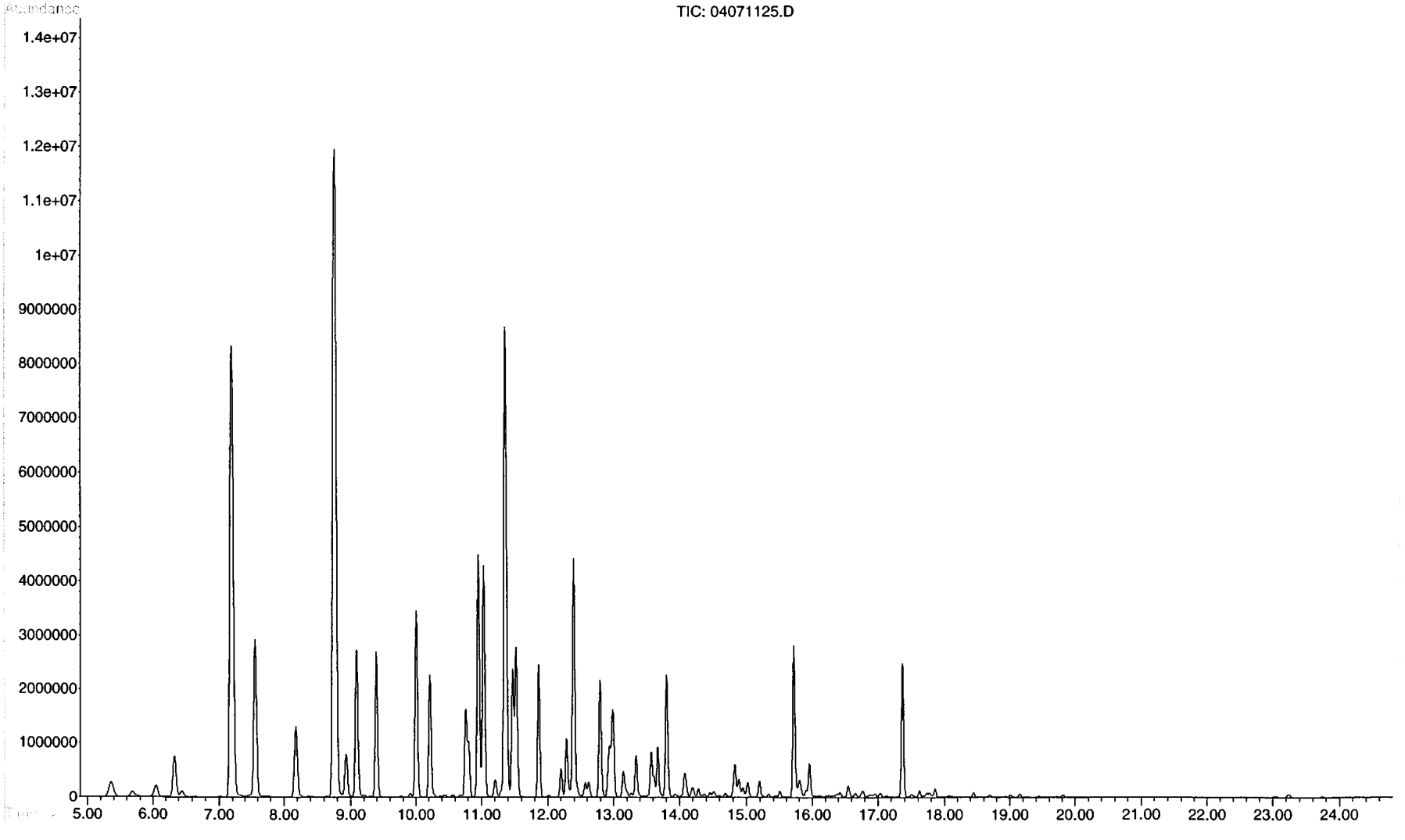
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	712678	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2519279	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1853633	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1124794	12.08	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.64%				
Target Compounds							Qvalue
2) Propylene	5.69	41	105917	1.92	ppbv	#	83
20) n-Hexane	9.39	57	1702891	16.97	ppbv		97
29) Cyclohexane	11.03	56	2064879	20.54	ppbv	#	83
31) Benzene	11.47	78	2115760	13.23	ppbv		96
34) Heptane	11.52	43	1106766	9.64	ppbv	#	91
41) Toluene	13.81	91	2042642	11.73	ppbv		98
50) Ethylbenzene	15.80	91	268897	1.39	ppbv		95
51) m,p-Xylene	15.95	91	462959	3.13	ppbv		93
52) o-Xylene	16.55	91	159552	1.07	ppbv	#	90

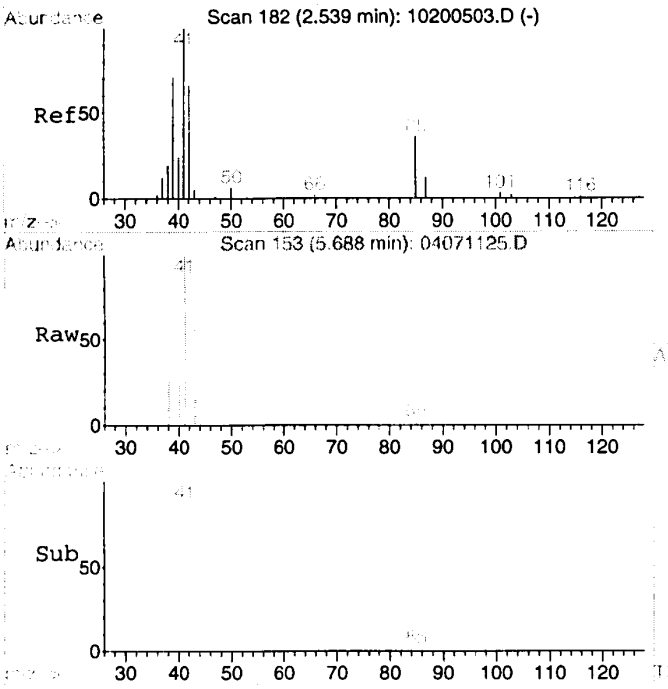
(#) = qualifier out of range (m) = manual integration
04071125.D 040711V1.M Thu Apr 14 16:01:46 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:45 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

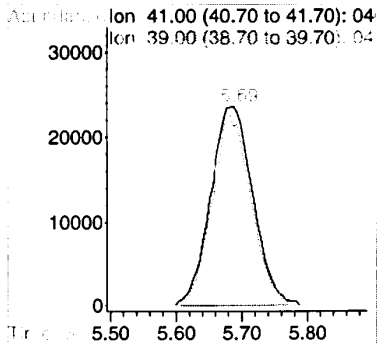


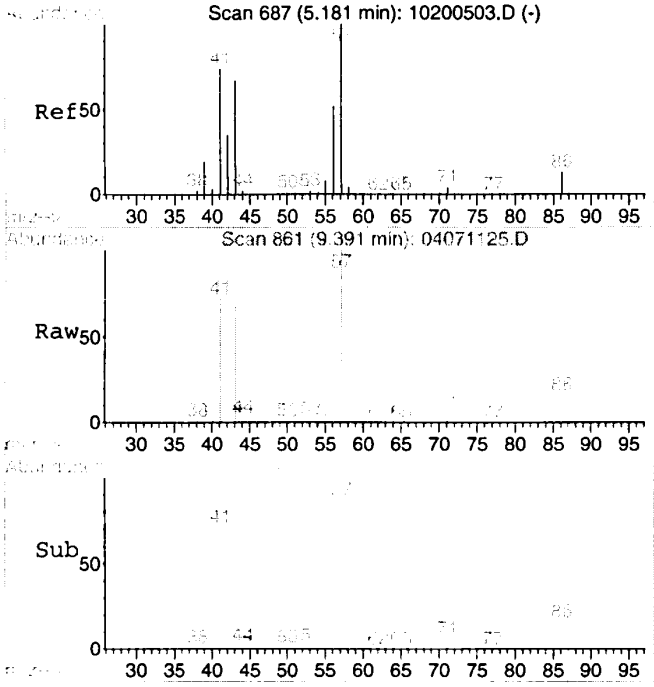


#2
Propylene
Concen: 1.92 ppbv
RT: 5.69 min Scan# 153
Delta R.T. 0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 41 Resp: 105917

Ion	Ratio	Lower	Upper
41	100		
39	89.5	57.6	86.4#
42	56.9	54.0	81.0

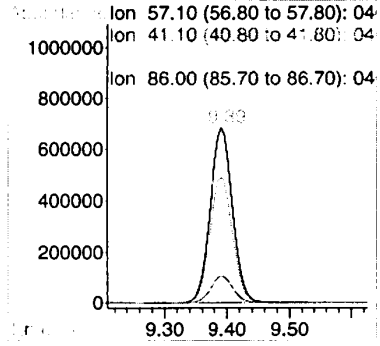


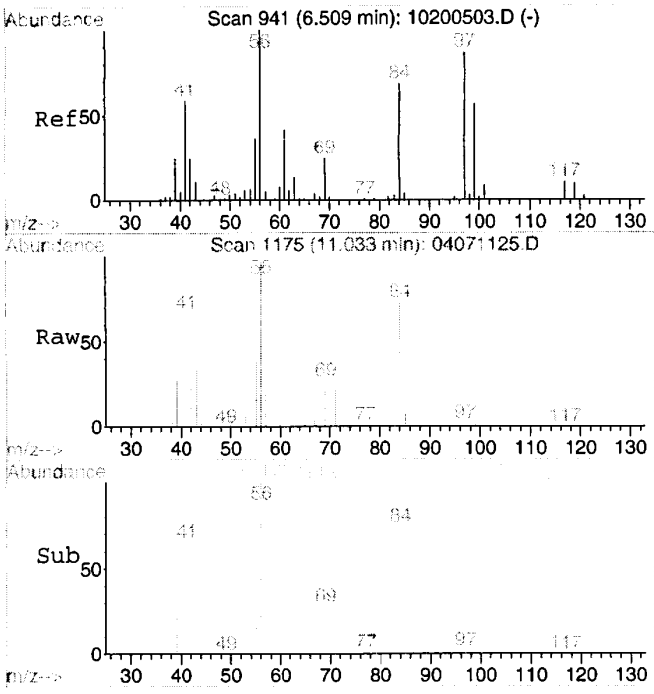


#20
n-Hexane
Concen: 16.97 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 57 Resp: 1702891

Ion	Ratio	Lower	Upper
57	100		
41	73.7	57.2	85.8
53	2.5	1.8	2.8
86	15.6	13.4	20.0

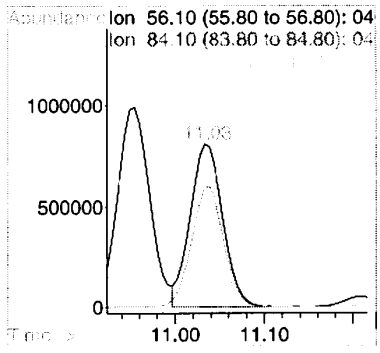


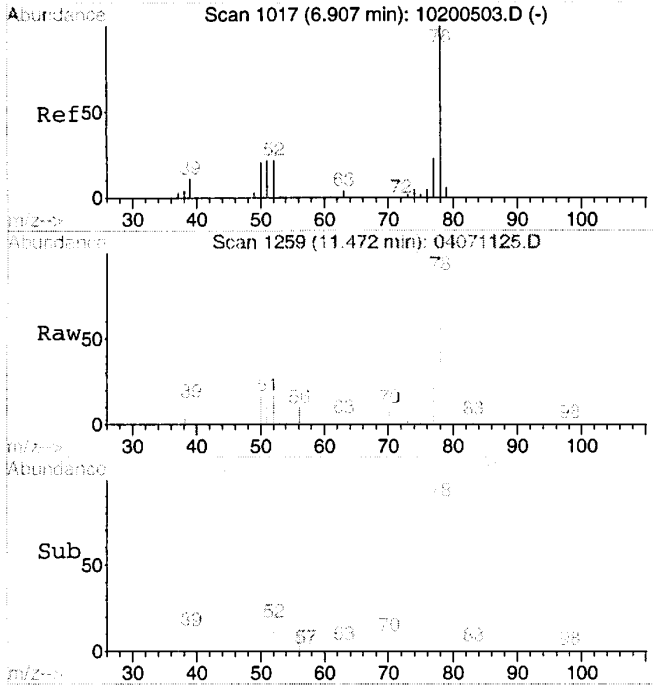


#29
Cyclohexane
Concen: 20.54 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 56 Resp: 2064879

Ion	Ratio	Lower	Upper
56	100		
84	74.3	72.4	108.6
41	66.9	43.8	65.8#

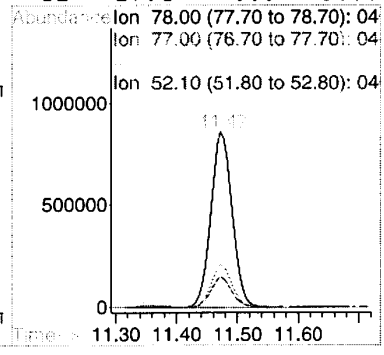


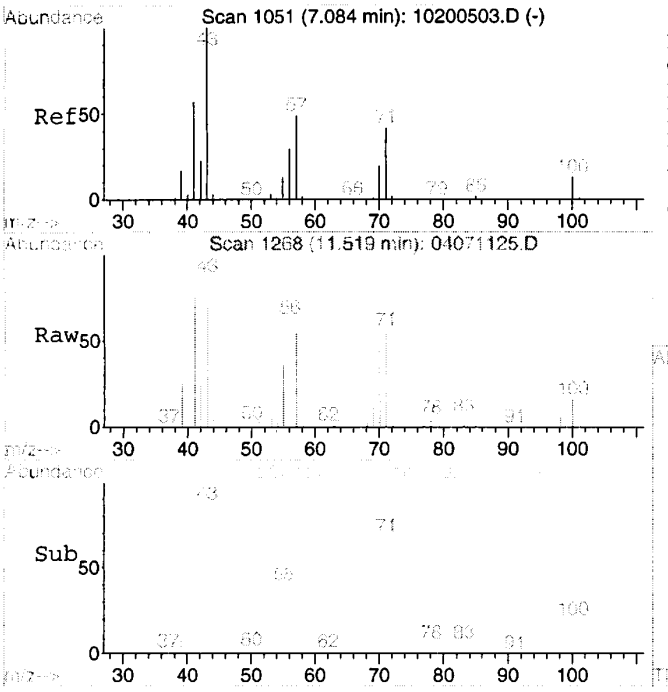


#31
Benzene
Concen: 13.23 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 78 Resp: 2115760

Ion	Ratio	Lower	Upper
78	100		
77	24.5	3.7	43.7
51	19.1	0.0	36.1
52	17.4	0.0	36.0

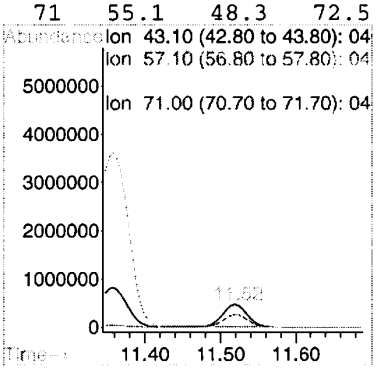


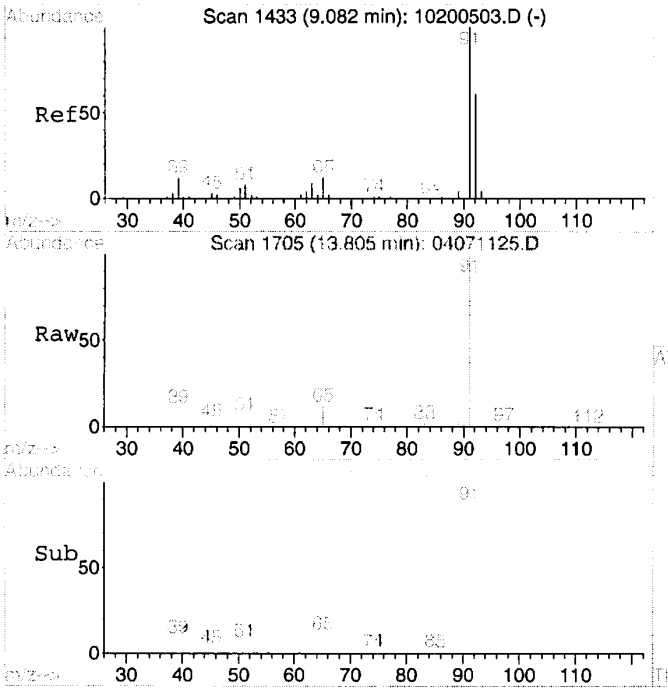


#34
Heptane
Concen: 9.64 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 43 Resp: 1106766

Ion	Ratio	Lower	Upper
43	100		
57	59.2	42.2	63.4
100	14.9	17.3	25.9#
71	55.1	48.3	72.5

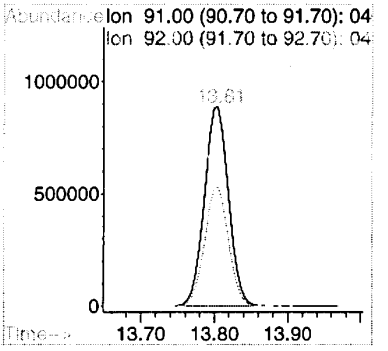


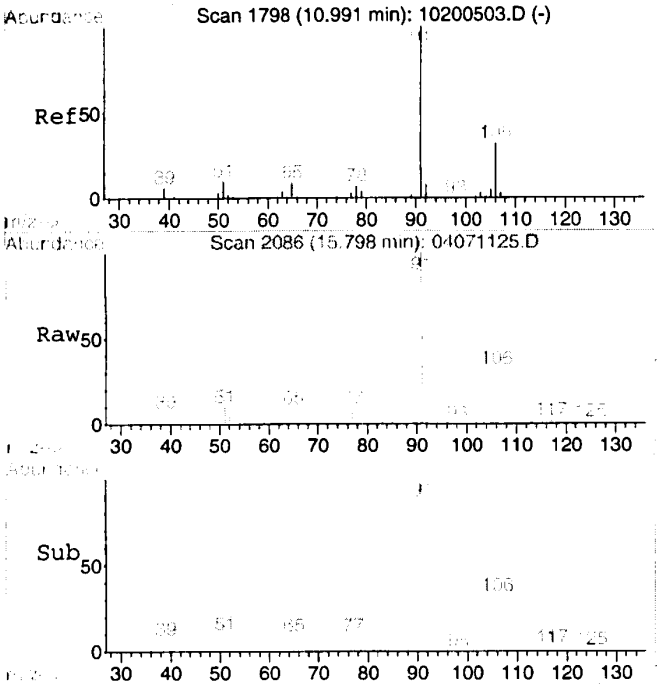


#41
Toluene
Concen: 11.73 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 91 Resp: 2042642

Ion	Ratio	Lower	Upper
91	100		
92	59.2	40.5	80.5
65	11.5	0.0	31.2

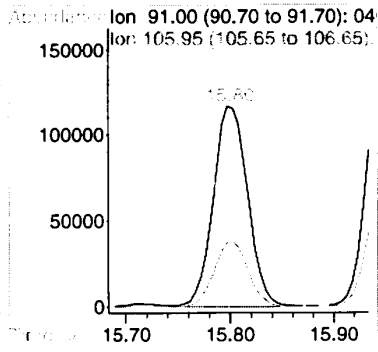


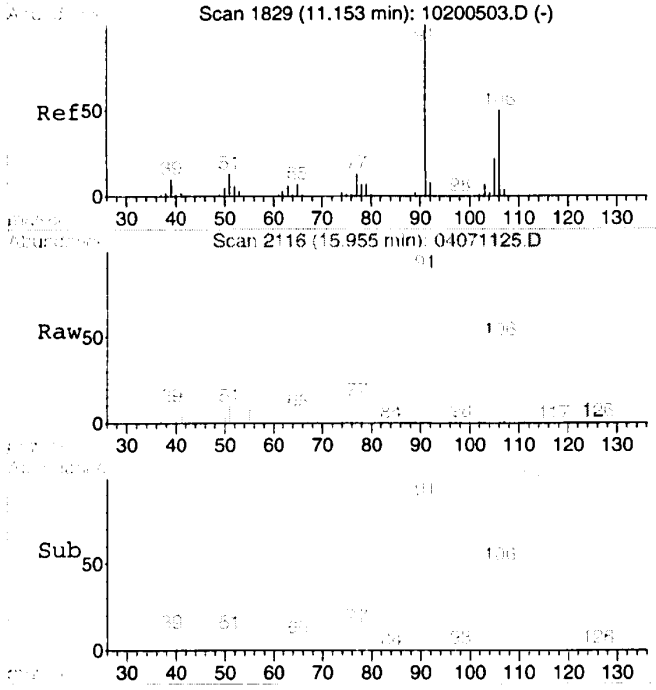


#50
Ethylbenzene
Concen: 1.39 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 91 Resp: 268897

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.9	0.0	33.1

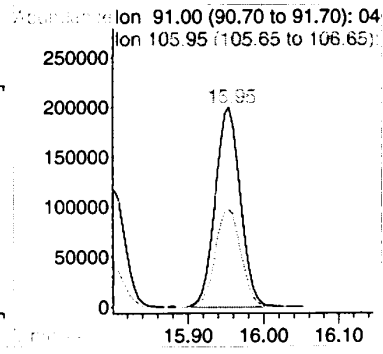


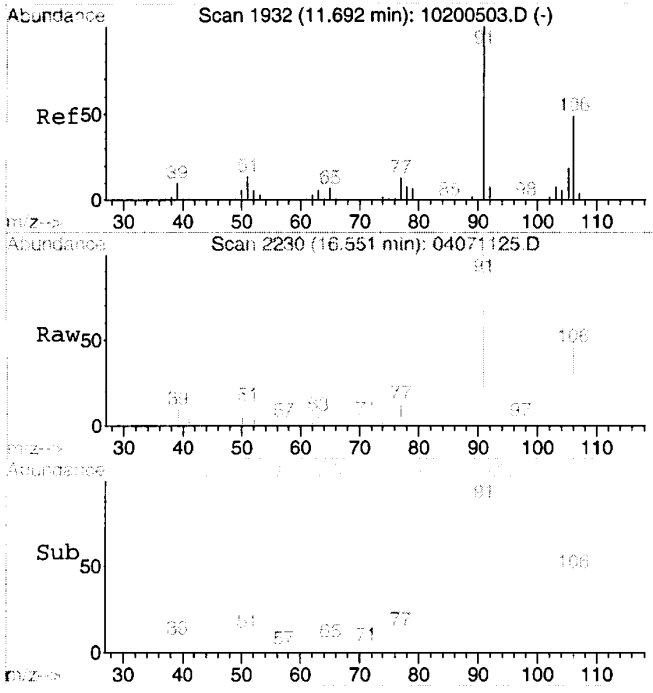


#51
m,p-Xylene
Concen: 3.13 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 91 Resp: 462959

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.5	0.0	29.6

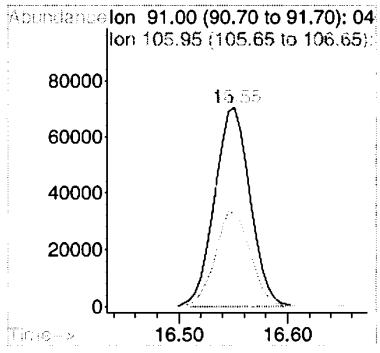




#52
o-Xylene
Concen: 1.07 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04071125.D
Acq: 8 Apr 2011 5:51 am

Tgt Ion: 91 Resp: 159552

Ion	Ratio	Lower	Upper
91	100		
106	46.9	41.0	61.6
51	16.0	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.358	68	90	121	rVB	277844	1489682	3.33%	0.565%
2	5.677	135	151	181	rVB5	103781	540509	1.21%	0.205%
3	6.054	202	223	240	rBV2	221666	957380	2.14%	0.363%
4	6.336	260	277	290	rBV	757308	2764818	6.18%	1.049%
5	7.189	422	440	477	rBV	8344799	31371562	70.16%	11.901%
6	7.560	490	511	533	rVB	2917519	9368161	20.95%	3.554%
7	8.183	614	630	655	rBV	1314260	4336163	9.70%	1.645%
8	8.758	724	740	762	rBV3	11969441	44713720	100.00%	16.962%
9	8.931	762	773	789	rVB	785052	2324005	5.20%	0.882%
10	9.087	789	803	819	rBV	2720520	7546518	16.88%	2.863%
11	9.391	849	861	885	rVB	2698655	6765448	15.13%	2.566%
12	10.008	967	979	1002	rVV	3470281	9144756	20.45%	3.469%
13	10.217	1006	1019	1043	rVV	2267683	6148788	13.75%	2.333%
14	10.761	1113	1123	1129	rBV	1612492	4338418	9.70%	1.646%
15	10.955	1146	1160	1167	rBV	4514285	11475082	25.66%	4.353%
16	11.033	1167	1175	1195	rVV2	4307995	11094625	24.81%	4.209%
17	11.206	1196	1208	1218	rVV3	327735	920579	2.06%	0.349%
18	11.357	1218	1237	1250	rVV	8707988	25575795	57.20%	9.702%
19	11.472	1250	1259	1263	rVV	2377606	5826262	13.03%	2.210%
20	11.519	1264	1268	1292	rVB3	2781179	6590641	14.74%	2.500%
21	11.859	1322	1333	1352	rVB	2466773	5684604	12.71%	2.156%
22	12.199	1385	1398	1405	rBV3	535666	1249346	2.79%	0.474%
23	12.283	1405	1414	1424	rVV	1085483	2840867	6.35%	1.078%
24	12.393	1424	1435	1459	rVV	4432846	11396062	25.49%	4.323%
25	12.571	1459	1469	1474	rVV5	266897	730579	1.63%	0.277%
26	12.623	1474	1479	1491	rVB	293489	700559	1.57%	0.266%
27	12.796	1495	1512	1527	rBV	2185457	5622435	12.57%	2.133%
28	12.942	1527	1540	1542	rBV4	937972	2518374	5.63%	0.955%
29	12.984	1543	1548	1567	rVB	1620830	4395168	9.83%	1.667%
30	13.146	1567	1579	1596	rBV2	485191	1597154	3.57%	0.606%
31	13.340	1607	1616	1632	rVB	766680	1952226	4.37%	0.741%
32	13.570	1651	1660	1667	rBV	815127	2200964	4.92%	0.835%
33	13.669	1673	1679	1694	rVB	908087	2016477	4.51%	0.765%
34	13.805	1694	1705	1720	rVB	2272910	5680177	12.70%	2.155%
35	14.077	1741	1757	1770	rBV5	448044	1389511	3.11%	0.527%
36	14.197	1770	1780	1789	rBV5	165136	489925	1.10%	0.186%
37	14.825	1886	1900	1906	rVV	613741	1653343	3.70%	0.627%
38	14.888	1907	1912	1918	rVV2	342111	835891	1.87%	0.317%
39	14.945	1918	1923	1929	rVV5	190350	480441	1.07%	0.182%
40	15.018	1930	1937	1952	rVB3	285421	752653	1.68%	0.286%
41	15.191	1957	1970	1980	rBV2	306950	776917	1.74%	0.295%
42	15.719	2057	2071	2081	rBV	2811948	6743700	15.08%	2.558%
43	15.803	2082	2087	2099	rVV2	320386	921383	2.06%	0.350%

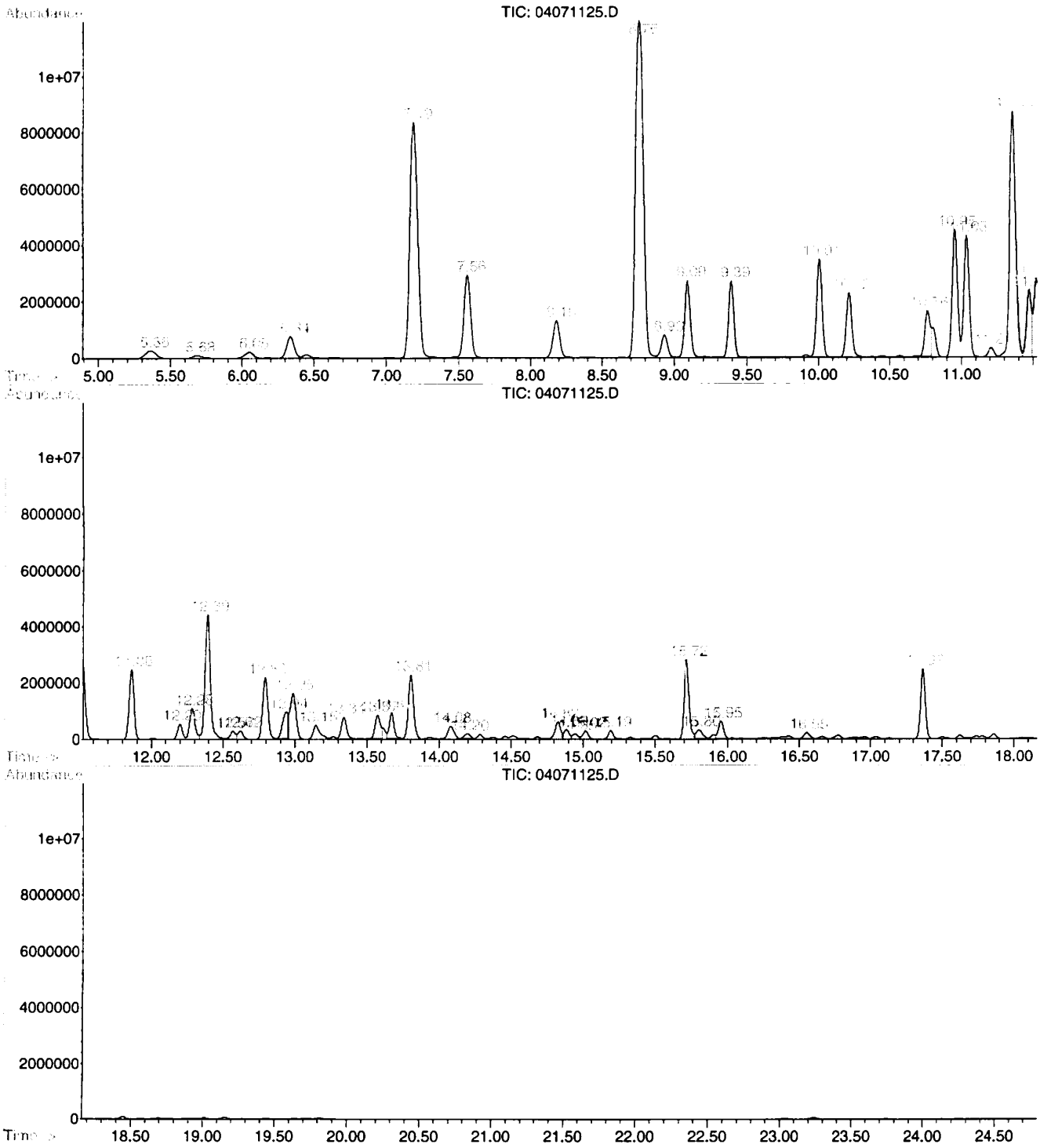
44	15.955	2109	2116	2128	rVB	611013	1501938	3.36%	0.570%
45	16.551	2218	2230	2242	rBV4	215258	594250	1.33%	0.225%
46	17.367	2370	2386	2400	rBV	2481141	5591052	12.50%	2.121%

Sum of corrected areas: 263608908

04071125.D 040711V1.M Thu Apr 14 16:01:50 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071125.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 5:51 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-022A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 24
Quant File :040711V1.RES (RTE Integrator)



04071125.D 040711V1.M Thu Apr 14 16:01:51 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	4.29 ppbv	1489680	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane $$ n-Butane $$ Diethyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	7.97 ppbv	2764820	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	80
3	Isobutane	58	C4H10	000075-28-5	9
4	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	9
5	Diazene, dimethyl-	58	C2H6N2	000503-28-6	5

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	90.39 ppbv	31371600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	43
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25
5	Butane, 1-chloro-2-methyl-	106	C5H11Cl	000616-13-7	12

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	26.99 ppbv	9368160	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

****

Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	12.49 ppbv	4336160	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	86
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	78
3	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	78
4	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 6 Butane, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	128.83 ppbv	44713700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59
3	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	59
4	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	49
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	49

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Cyclopentane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	6.70 ppbv	2324010	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	83
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	80
3	1-Pentene	70	C5H10	000109-67-1	45
4	Cyclobutane, methyl-	70	C5H10	000598-61-8	36
5	1-Pentene	70	C5H10	000109-67-1	17

****

Peak Number 8 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	21.74 ppbv	7546520	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

****

Peak Number 9 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	26.35 ppbv	9144760	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	68
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, methyl- $$ Methy Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	17.72 ppbv	6148790	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	50

****

Peak Number 11 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	33.06 ppbv	11475100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

****

Peak Number 12 Hexane, 2,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	56.24 ppbv	25575800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
5	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.25 ppbv	2840870	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	64
3	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
4	Ether, heptyl hexyl	200	C13H28O	007289-40-9	59
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	43

****

Peak Number 14 Cyclohexane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	25.06 ppbv	11396100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 15 Pentane, 2,3,4-trimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	12.36 ppbv	5622440	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	83
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
4	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	58
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	5.54 ppbv	2518370	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	59
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	52
5	Pentane, 2,2,3,3-tetramethyl-	128	C9H20	007154-79-2	50

****

Peak Number 17 Pentane, 2,3,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	9.66 ppbv	4395170	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	45
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	39
3	Pentane, 3-ethyl-2-methyl- $$ 2-Met	114	C8H18	000609-26-7	37
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	36
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	36

****

Peak Number 18 Hexane, 2,2,5-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	4.29 ppbv	1952230	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	74

Data File : C:\HPCHEM\1\DATA\040711\04071125.D Vial: 24
Acq On : 8 Apr 2011 5:51 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.84 ppbv	2200960	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

****

Peak Number 20 Octane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	4.43 ppbv	2016480	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
3	Octane	114	C8H18	000111-65-9	64
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
5	Undecane, 2,4-dimethyl-	184	C13H28	017312-80-0	59

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 5:51 am
Data File: C:\HPCHEM\1\DATA\040711\04071125.D
Name: 1103609-022A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	4.3	ppbv	1489680	ISTD01	10.76	4338420	12.5
Butane $$ n-Butane $	6.34	8.0	ppbv	2764820	ISTD01	10.76	4338420	12.5
Butane, 2-methyl-	7.19	90.4	ppbv	31371600	ISTD01	10.76	4338420	12.5
Pentane	7.56	27.0	ppbv	9368160	ISTD01	10.76	4338420	12.5
Butane, 2,2-dimethyl	8.18	12.5	ppbv	4336160	ISTD01	10.76	4338420	12.5
Butane, 2,3-dimethyl	8.76	128.8	ppbv	44713700	ISTD01	10.76	4338420	12.5
Cyclopentane	8.93	6.7	ppbv	2324010	ISTD01	10.76	4338420	12.5
Pentane, 3-methyl-	9.09	21.7	ppbv	7546520	ISTD01	10.76	4338420	12.5
Pentane, 2,4-dimethy	10.01	26.3	ppbv	9144760	ISTD01	10.76	4338420	12.5
Cyclopentane, methyl	10.22	17.7	ppbv	6148790	ISTD01	10.76	4338420	12.5
Pentane, 2,3-dimethy	10.95	33.1	ppbv	11475100	ISTD01	10.76	4338420	12.5
Hexane, 2,2-dimethyl	11.36	56.2	ppbv	25575800	ISTD02	11.86	5684600	12.5
Hexane, 2,4-dimethyl	12.28	6.2	ppbv	2840870	ISTD02	11.86	5684600	12.5
Cyclohexane, methyl-	12.39	25.1	ppbv	11396100	ISTD02	11.86	5684600	12.5
Pentane, 2,3,4-trime	12.80	12.4	ppbv	5622440	ISTD02	11.86	5684600	12.5
Heptane, 2-methyl-	12.94	5.5	ppbv	2518370	ISTD02	11.86	5684600	12.5
Pentane, 2,3,4-trime	12.98	9.7	ppbv	4395170	ISTD02	11.86	5684600	12.5
Hexane, 2,2,5-trimet	13.34	4.3	ppbv	1952230	ISTD02	11.86	5684600	12.5
Cyclohexane, 1,3-dim	13.57	4.8	ppbv	2200960	ISTD02	11.86	5684600	12.5
Octane	13.67	4.4	ppbv	2016480	ISTD02	11.86	5684600	12.5

04071125.D 040711V1.M Thu Apr 14 16:01:52 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:47 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	711096	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2339644	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1933631	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1215493	12.52	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.16%				
Target Compounds							Qvalue
2) Propylene*	5.68	41	433480	7.89	ppbv		87
20) n-Hexane	9.39	57	9634759	96.23	ppbv	#	96
29) Cyclohexane	11.03	56	8864377	88.36	ppbv	#	82
31) Benzene*	11.47	78	5280319	33.09	ppbv		92
34) Heptane	11.51	43	5499930	51.58	ppbv	#	91
41) Toluene*	13.80	91	7765549	48.01	ppbv		94
50) Ethylbenzene*	15.80	91	350202	1.74	ppbv		95
51) m,p-Xylene*	15.95	91	520825	3.38	ppbv		92

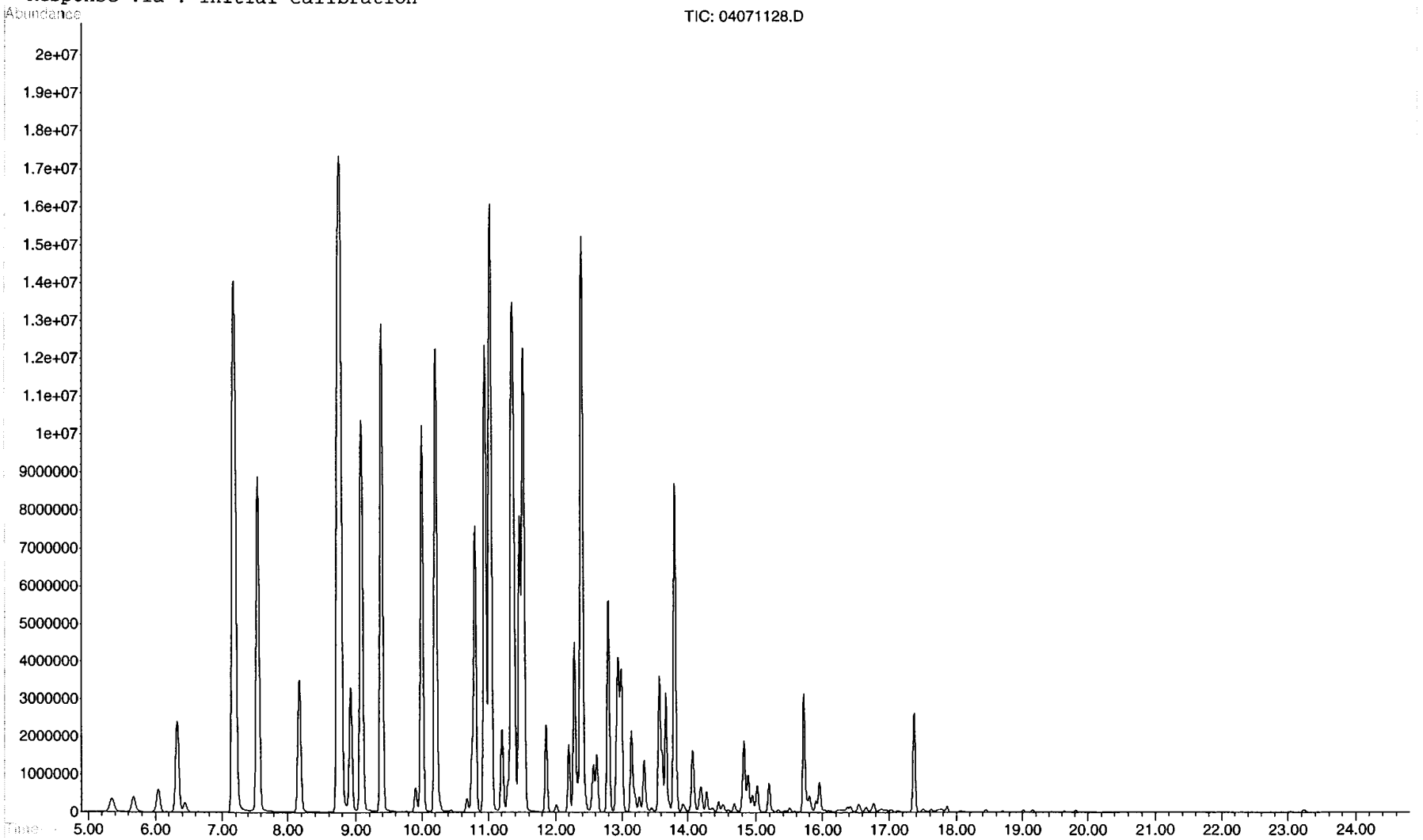
* = reported only 4/15/11 AP

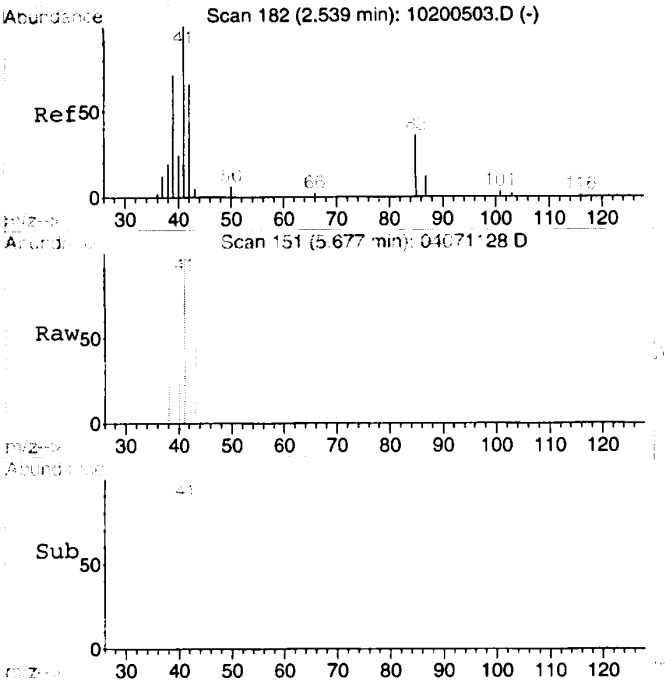
(#) = qualifier out of range (m) = manual integration
04071128.D 040711V1.M Thu Apr 14 16:02:05 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:47 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

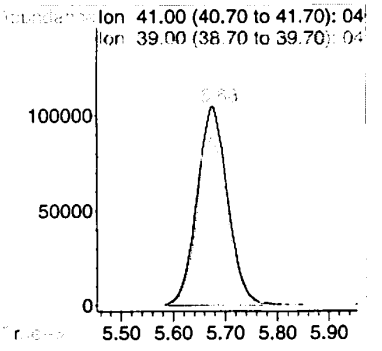


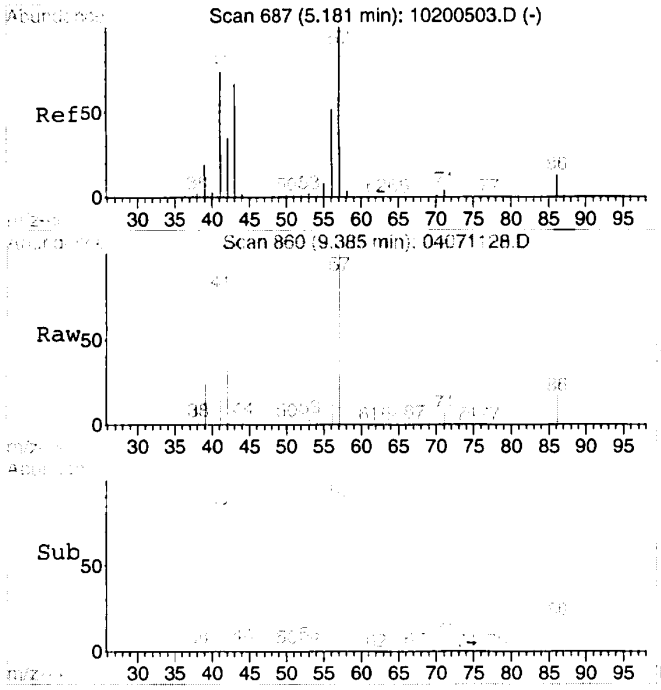


#2
Propylene
Concen: 7.89 ppbv
RT: 5.68 min Scan# 151
Delta R.T. -0.01 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 41 Resp: 433480

Ion	Ratio	Lower	Upper
41	100		
39	84.4	57.6	86.4
42	58.2	54.0	81.0

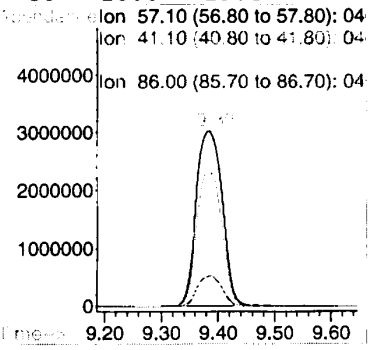


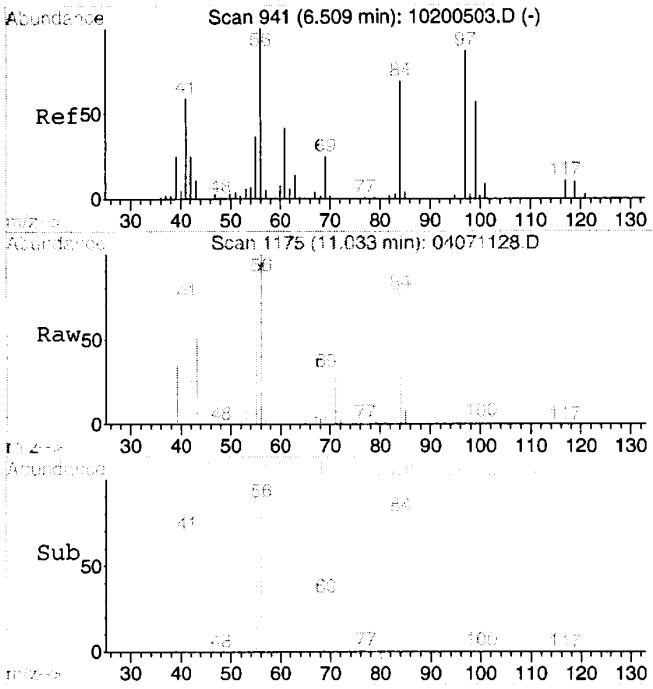


#20
n-Hexane
Concen: 96.23 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 57 Resp: 9634759

Ion	Ratio	Lower	Upper
57	100		
41	75.1	57.2	85.8
53	3.1	1.8	2.8#
86	16.6	13.4	20.0

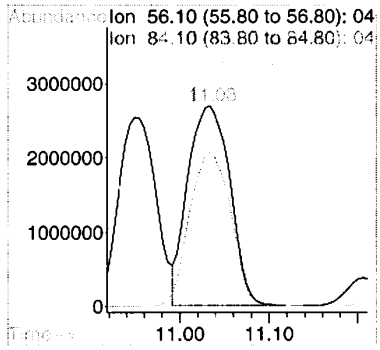


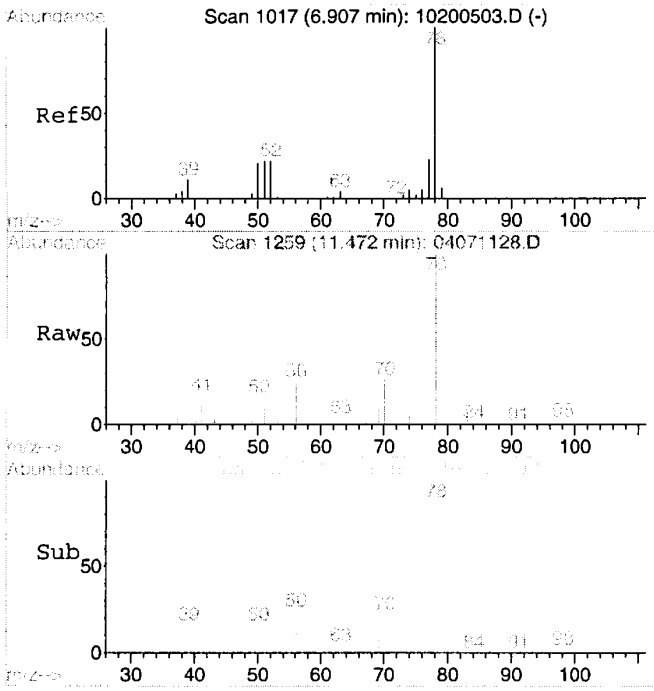


#29
Cyclohexane
Concen: 88.36 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 56 Resp: 8864377

Ion	Ratio	Lower	Upper
56	100		
84	76.3	72.4	108.6
41	70.7	43.8	65.8#

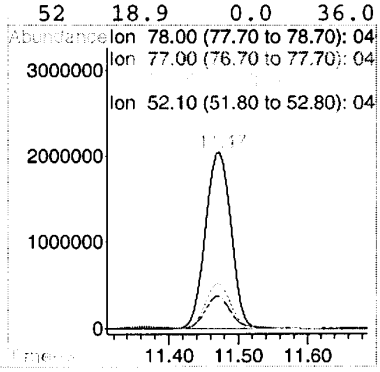


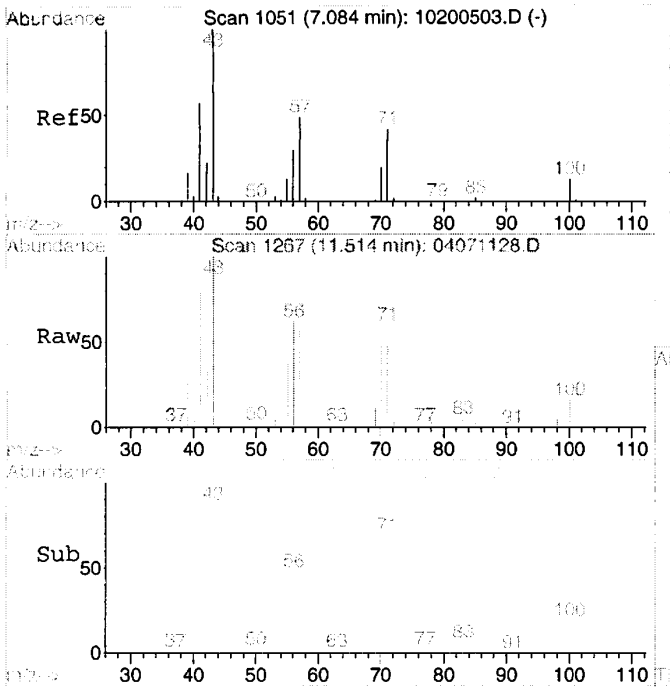


#31
Benzene
Concen: 33.09 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 78 Resp: 5280319

Ion	Ratio	Lower	Upper
78	100		
77	25.9	3.7	43.7
51	21.6	0.0	36.1
52	18.9	0.0	36.0

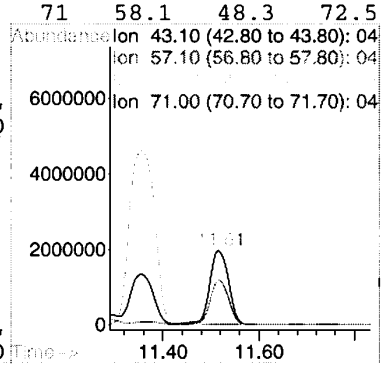


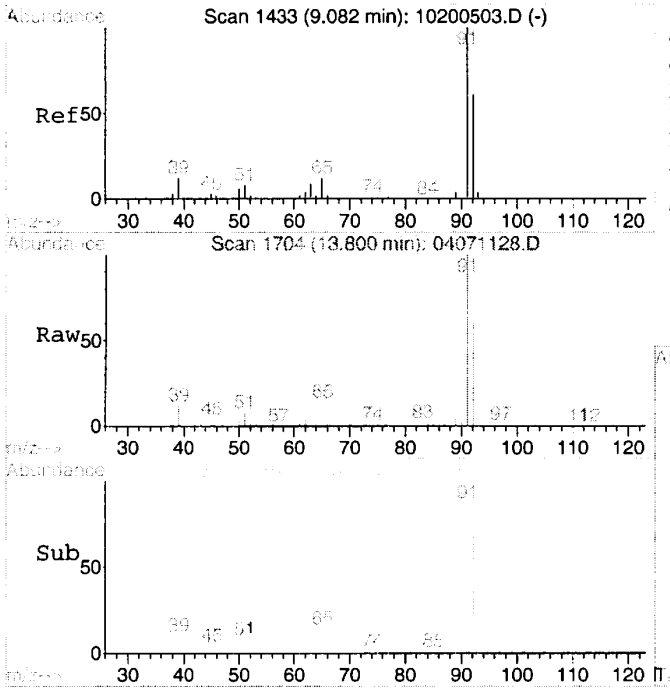


#34
Heptane
Concen: 51.58 ppbv
RT: 11.51 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 43 Resp: 5499930

Ion	Ratio	Lower	Upper
43	100		
57	63.2	42.2	63.4
100	15.3	17.3	25.9#
71	58.1	48.3	72.5

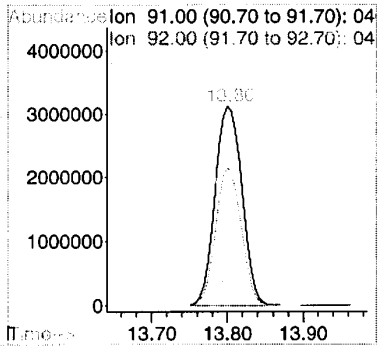


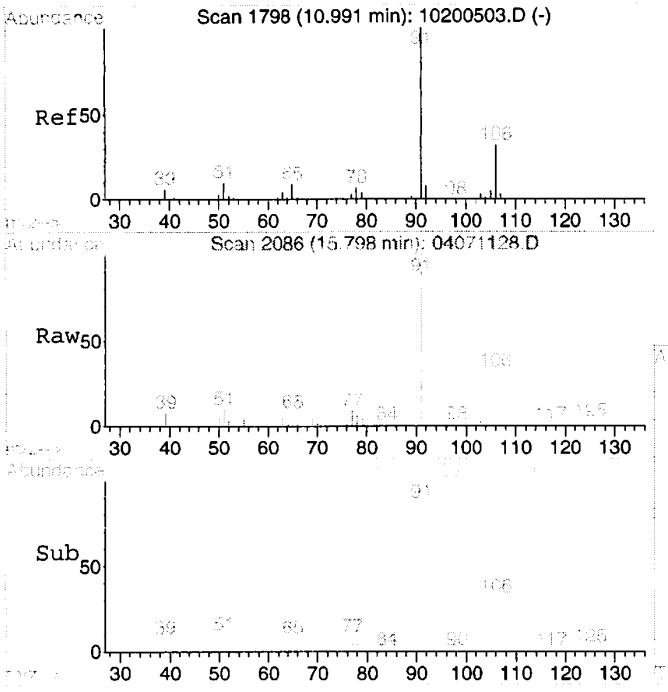


#41
Toluene
Concen: 48.01 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 91 Resp: 7765549

Ion	Ratio	Lower	Upper
91	100		
92	65.3	40.5	80.5
65	12.9	0.0	31.2

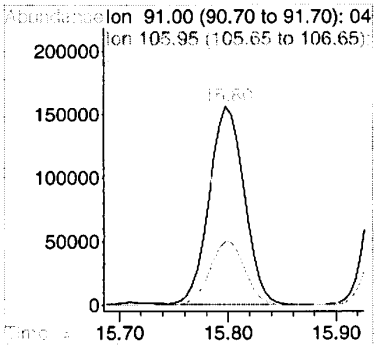


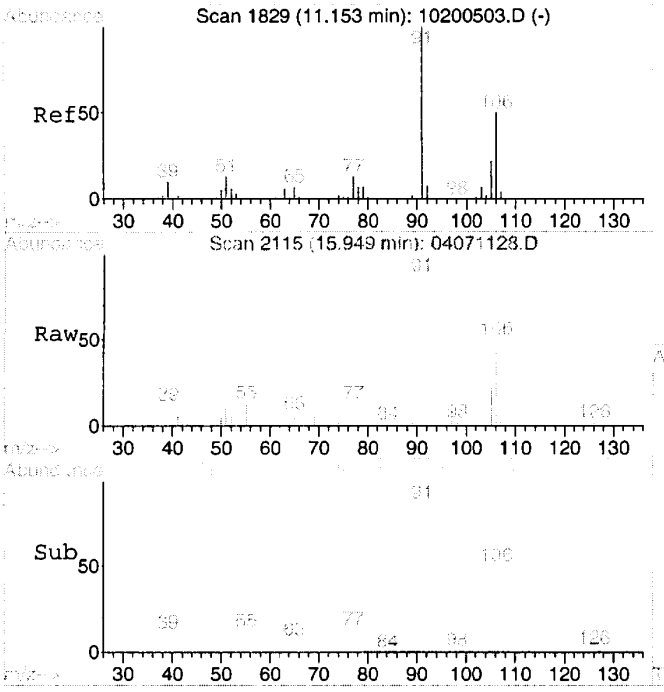


#50
Ethylbenzene
Concen: 1.74 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 91 Resp: 350202

Ion	Ratio	Lower	Upper
91	100		
106	32.1	14.9	54.9
51	10.8	0.0	33.1

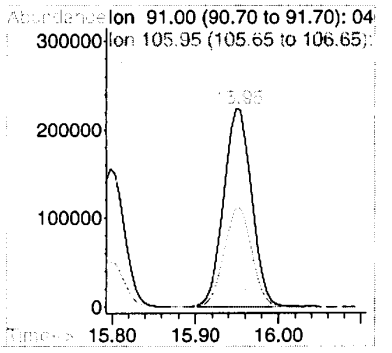




#51
m,p-Xylene
Concen: 3.38 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071128.D
Acq: 8 Apr 2011 9:28 am

Tgt Ion: 91 Resp: 520825

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	11.5	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.348	66	88	124	rVB	365197	1878423	2.29%	0.245%
2	5.677	130	151	180	rVB2	415487	1812991	2.21%	0.237%
3	6.043	200	221	238	rBV	622751	2442378	2.98%	0.319%
4	6.326	257	275	289	rBV2	2422359	8602735	10.51%	1.123%
5	6.441	289	297	314	rVB	253738	906723	1.11%	0.118%
6	7.178	420	438	480	rBV	14084925	60432884	73.80%	7.889%
7	7.555	494	510	541	rVB	8869627	30867873	37.70%	4.029%
8	8.172	611	628	653	rBV	3509915	11310381	13.81%	1.476%
9	8.753	721	739	760	rBV5	17366031	81882746	100.00%	10.689%
10	8.925	760	772	788	rVV	3272205	9704790	11.85%	1.267%
11	9.082	788	802	821	rVV	10345549	32462575	39.65%	4.238%
12	9.385	847	860	889	rVB	12919157	39901507	48.73%	5.209%
13	9.903	947	959	967	rBV	642296	1790732	2.19%	0.234%
14	10.003	967	978	1002	rVB	10246907	29328189	35.82%	3.828%
15	10.207	1004	1017	1043	rBV	12271146	37251736	45.49%	4.863%
16	10.683	1096	1108	1114	rBV	373445	1004355	1.23%	0.131%
17	10.803	1114	1131	1146	rVV2	7605547	23339989	28.50%	3.047%
18	10.949	1146	1159	1167	rVV	12382195	36059580	44.04%	4.707%
19	11.028	1167	1174	1196	rVV2	16111634	50795549	62.03%	6.631%
20	11.206	1196	1208	1217	rVV	2196015	5905792	7.21%	0.771%
21	11.357	1217	1237	1250	rVV2	13510487	53294292	65.09%	6.957%
22	11.467	1250	1258	1262	rVV2	7858541	19563480	23.89%	2.554%
23	11.519	1262	1268	1299	rVB4	12300314	35833122	43.76%	4.678%
24	11.859	1322	1333	1350	rVV	2324049	5337021	6.52%	0.697%
25	12.199	1386	1398	1405	rBV	1792031	4169362	5.09%	0.544%
26	12.283	1405	1414	1423	rVV	4530598	11910480	14.55%	1.555%
27	12.388	1424	1434	1457	rVV	15254594	47567816	58.09%	6.209%
28	12.571	1457	1469	1473	rVV4	1263930	3414792	4.17%	0.446%
29	12.618	1473	1478	1493	rVB	1525889	3701859	4.52%	0.483%
30	12.796	1498	1512	1526	rBV2	5626247	14541216	17.76%	1.898%
31	12.942	1526	1540	1545	rBV3	4099121	12948886	15.81%	1.690%
32	13.146	1568	1579	1596	rBV2	2159806	6667183	8.14%	0.870%
33	13.339	1608	1616	1631	rVB	1349570	3501243	4.28%	0.457%
34	13.570	1646	1660	1667	rBV	3603426	9900787	12.09%	1.292%
35	13.669	1673	1679	1693	rVB	3052644	6657866	8.13%	0.869%
36	13.800	1693	1704	1721	rVB	8702894	22865213	27.92%	2.985%
37	14.072	1741	1756	1769	rBV2	1618022	4476780	5.47%	0.584%
38	14.197	1769	1780	1789	rBV4	618234	1802803	2.20%	0.235%
39	14.281	1789	1796	1805	rVB	481317	966526	1.18%	0.126%
40	14.825	1886	1900	1906	rVV	1886609	5033877	6.15%	0.657%
41	14.882	1906	1911	1918	rVV	997207	2492032	3.04%	0.325%
42	14.945	1918	1923	1929	rVV3	459852	1143513	1.40%	0.149%
43	15.018	1929	1937	1952	rVB2	713715	1932181	2.36%	0.252%

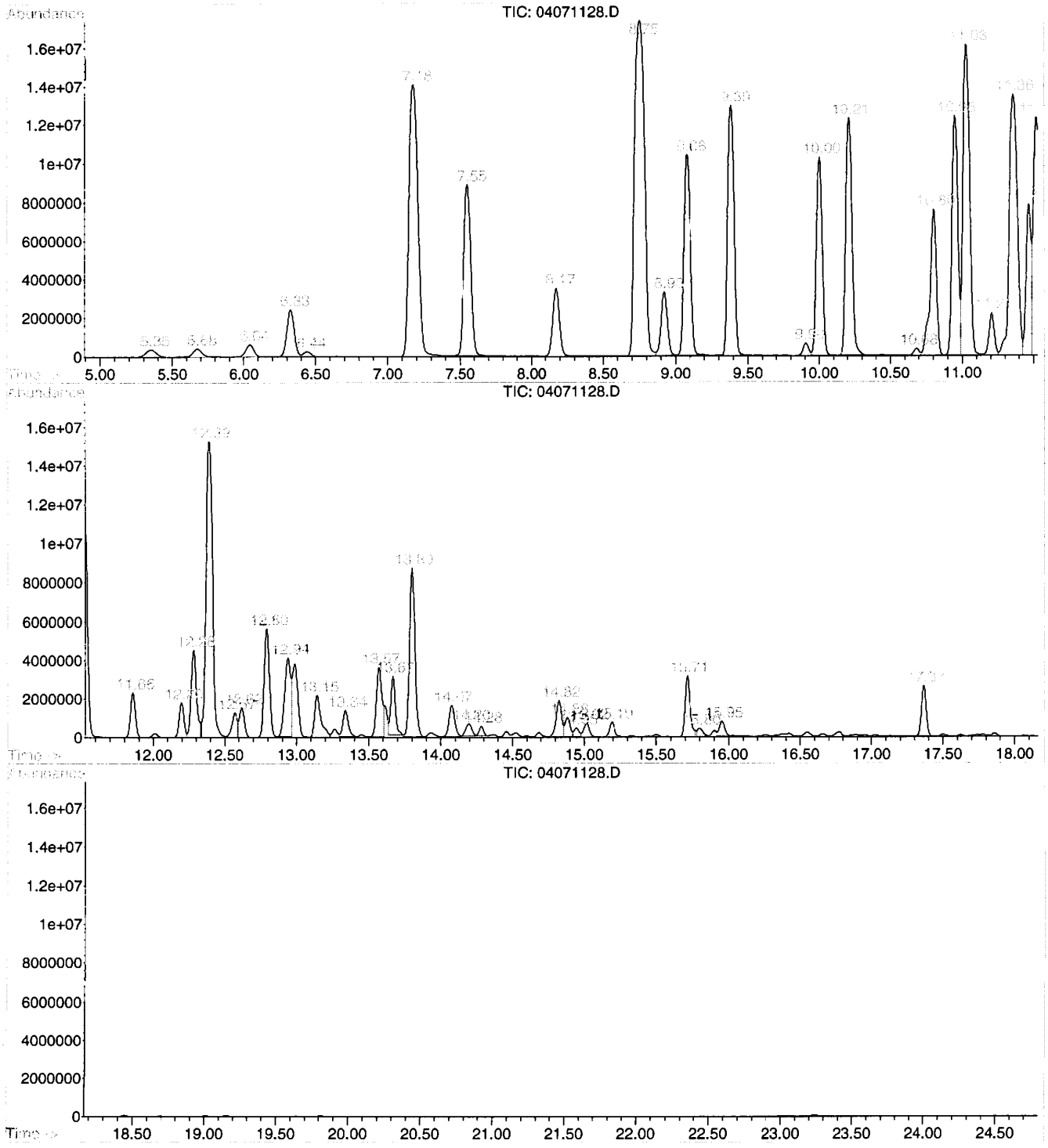
44	15.191	1956	1970	1987	rBV	772446	1966169	2.40%	0.257%
45	15.714	2058	2070	2081	rBV	3146653	7771774	9.49%	1.015%
46	15.798	2083	2086	2098	rVV2	412182	1004294	1.23%	0.131%
47	15.955	2109	2116	2127	rVB	755554	1918917	2.34%	0.250%
48	17.367	2374	2386	2401	rVB	2632533	5995614	7.32%	0.783%

Sum of corrected areas: 766061026

04071128.D 040711V1.M Thu Apr 14 16:02:10 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071128.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 9:28 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-025A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 27
Quant File :040711V1.RES (RTE Integrator)



04071128.D 040711V1.M Thu Apr 14 16:02:10 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.18	32.37 ppbv	60432900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	72
2	Butane, 2-methyl-	72	C5H12	000078-78-4	64
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol	72	C4H8O	000627-27-0	38
5	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	33

****

Peak Number 2 Pentane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.55	16.53 ppbv	30867900	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	58
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	43.85 ppbv	81882700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	64
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	64
5	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	59

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 3-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	17.39 ppbv	32462600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40
5	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	40

****

Peak Number 5 Pentane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	15.71 ppbv	29328200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
3	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	19.95 ppbv	37251700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
5	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	19.31 ppbv	36059600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90

****

Peak Number 8 Pentane, 2,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	124.82 ppbv	53294300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
3	Hexane, 2,2,5,5-tetramethyl-	142	C10H22	001071-81-4	72
4	Butane, 2-azido-2,3,3-trimethyl- $$	141	C7H15N3	051677-41-9	56
5	Pentane, 2,2,4,4-tetramethyl- $$ Di	128	C9H20	001070-87-7	56

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	9.77 ppbv	4169360	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	93
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	76
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	46
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	45
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	38

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 1-(hexyloxy)-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	27.90 ppbv	11910500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	38
4	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
5	Cyclopentanone, 2,3-dimethyl-	112	C7H12O	000000-00-0	38

****

Peak Number 11 Cyclohexane, methyl- $$ Cycloh Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	111.41 ppbv	47567800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	72

****

Peak Number 12 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	8.00 ppbv	3414790	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	91
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	86
4	Cyclopentane, propyl- $$ n-Propylcy	112	C8H16	002040-96-2	72
5	Cyclopentane, propyl-	112	C8H16	002040-96-2	56

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	8.67 ppbv	3701860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	72
2	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	56
3	Cyclobutanone, 2,2,3-trimethyl- $$	112	C7H12O	001449-49-6	50
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	47
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	39

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	34.06 ppbv	14541200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58
2	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56
3	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	53
4	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	30.33 ppbv	12948900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	83
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	68
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	58

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Heptane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	15.62 ppbv	6667180	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	43
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	43

****

Peak Number 17 Hexane, 2,2,5-trimethyl- $$ 2, Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	8.20 ppbv	3501240	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	23.19 ppbv	9900790	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

Data File : C:\HPCHEM\1\DATA\040711\04071128.D Vial: 27
Acq On : 8 Apr 2011 9:28 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Octane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	15.59 ppbv	6657870	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	8.10 ppbv	5033880	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 9:28 am
Data File: C:\HPCHEM\1\DATA\040711\04071128.D
Name: 1103609-025A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Butane, 2-methyl-	7.18	32.4	ppbv	60432900	ISTD01	10.76	23340000	12.5
Pentane	7.55	16.5	ppbv	30867900	ISTD01	10.76	23340000	12.5
Pentane, 2-methyl-	8.75	43.9	ppbv	81882700	ISTD01	10.76	23340000	12.5
Pentane, 3-methyl-	9.08	17.4	ppbv	32462600	ISTD01	10.76	23340000	12.5
Pentane, 2,4-dimethy	10.00	15.7	ppbv	29328200	ISTD01	10.76	23340000	12.5
Cyclopentane, methyl	10.21	20.0	ppbv	37251700	ISTD01	10.76	23340000	12.5
Pentane, 2,3-dimethy	10.95	19.3	ppbv	36059600	ISTD01	10.76	23340000	12.5
Pentane, 2,2,4-trime	11.36	124.8	ppbv	53294300	ISTD02	11.86	5337020	12.5
Hexane, 2,5-dimethyl	12.20	9.8	ppbv	4169360	ISTD02	11.86	5337020	12.5
Hexane, 1-(hexyloxy)	12.28	27.9	ppbv	11910500	ISTD02	11.86	5337020	12.5
Cyclohexane, methyl-	12.39	111.4	ppbv	47567800	ISTD02	11.86	5337020	12.5
Cyclopentane, ethyl-	12.57	8.0	ppbv	3414790	ISTD02	11.86	5337020	12.5
Cyclopentane, 1,2,4-	12.62	8.7	ppbv	3701860	ISTD02	11.86	5337020	12.5
Pentane, 2,3,4-trime	12.80	34.1	ppbv	14541200	ISTD02	11.86	5337020	12.5
Heptane, 2-methyl-	12.94	30.3	ppbv	12948900	ISTD02	11.86	5337020	12.5
Heptane, 3-methyl-	13.15	15.6	ppbv	6667180	ISTD02	11.86	5337020	12.5
Hexane, 2,2,5-trimet	13.34	8.2	ppbv	3501240	ISTD02	11.86	5337020	12.5
Cyclohexane, 1,3-dim	13.57	23.2	ppbv	9900790	ISTD02	11.86	5337020	12.5
Octane	13.67	15.6	ppbv	6657870	ISTD02	11.86	5337020	12.5
Cyclohexane, ethyl-	14.82	8.1	ppbv	5033880	ISTD03	15.71	7771770	12.5

04071128.D 040711V1.M Thu Apr 14 16:02:11 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:49 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	675577	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2213968	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2016921	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1291828	12.75	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene*	5.68	41	212056	4.06	ppbv		92
14) Acetone*	8.36	43	109715	1.43	ppbv	#	95
20) n-Hexane	9.39	57	13454483	141.44	ppbv	#	95
29) Cyclohexane	11.04	56	11694243	122.69	ppbv	#	85
31) Benzene	11.47	78	9494030	62.62	ppbv		87
34) Heptane	11.52	43	8318596	82.44	ppbv	#	89
41) Toluene	13.80	91	13102754	85.60	ppbv		86
50) Ethylbenzene*	15.80	91	825738	3.92	ppbv		95
51) m,p-Xylene*	15.95	91	1727604	10.74	ppbv		94
52) o-Xylene*	16.55	91	432904	2.68	ppbv	#	89

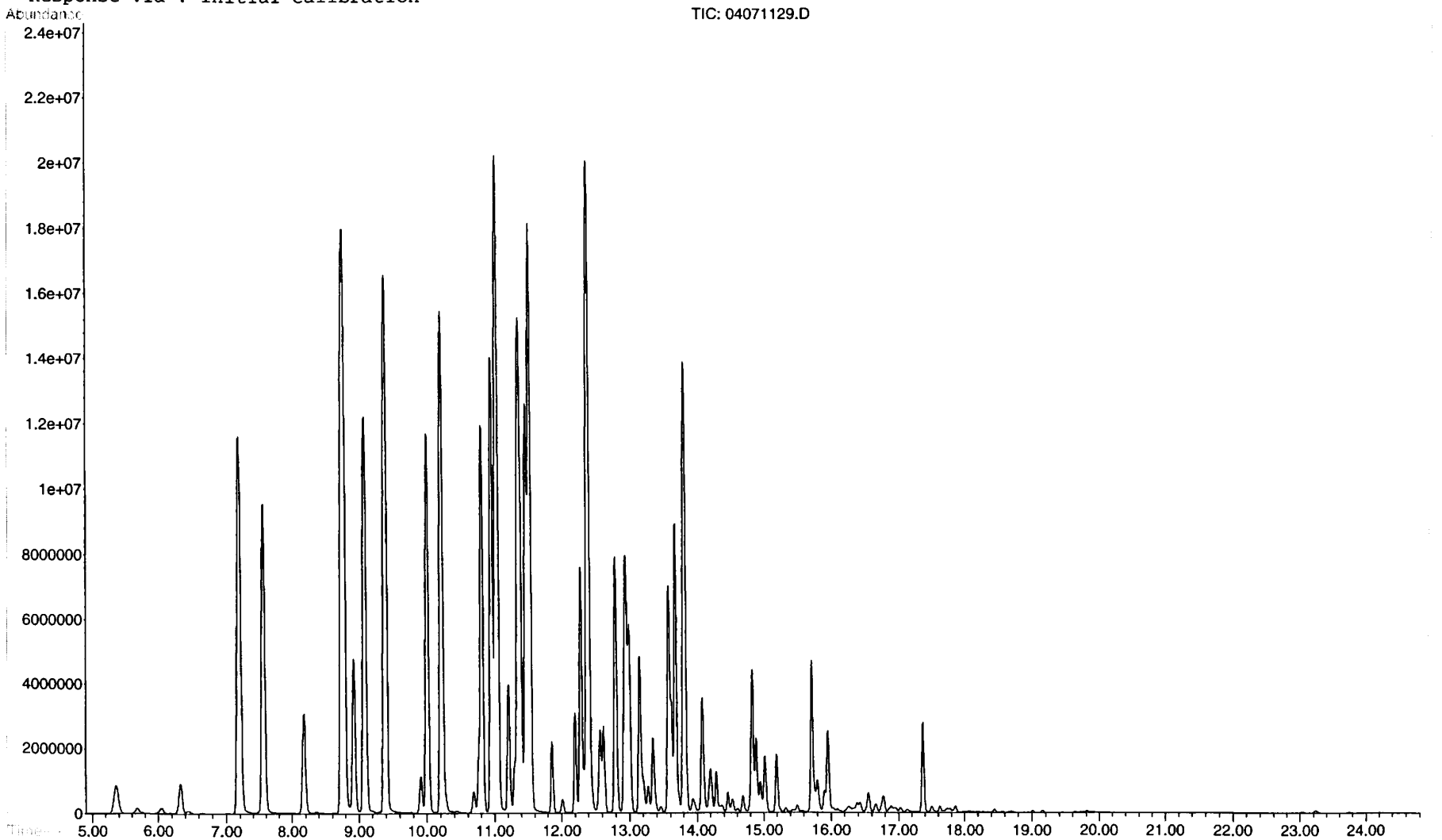
*= reported only 4/15/11 AP

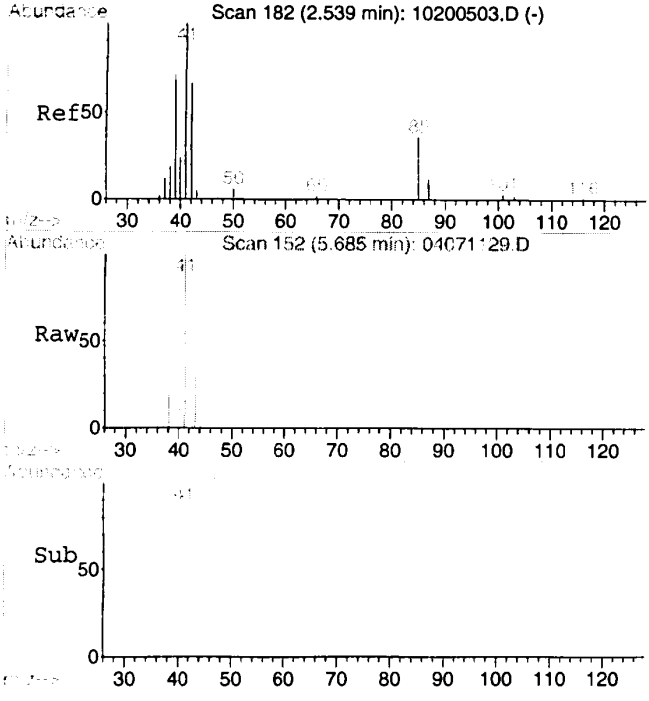
(#) = qualifier out of range (m) = manual integration
04071129.D 040711V1.M Thu Apr 14 16:02:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 10:49 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

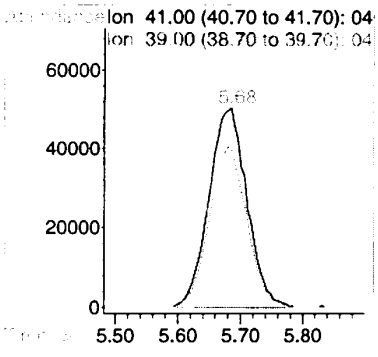


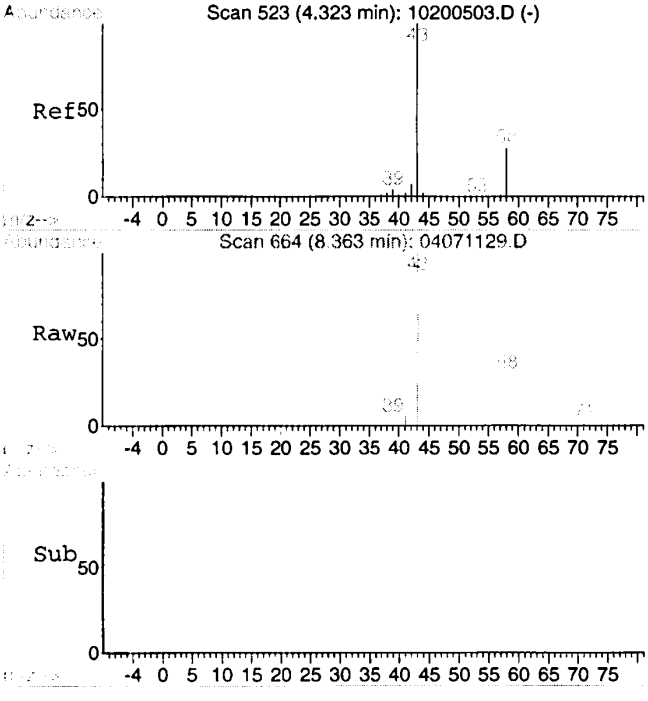


#2
Propylene
Concen: 4.06 ppbv
RT: 5.68 min Scan# 152
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 41 Resp: 212056

Ion	Ratio	Lower	Upper
41	100		
39	80.0	57.6	86.4
42	62.8	54.0	81.0

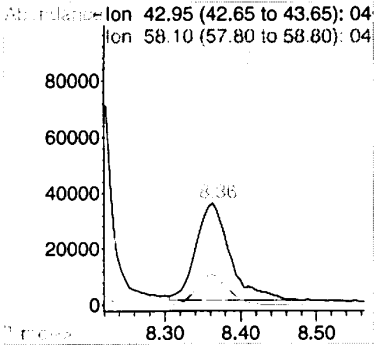


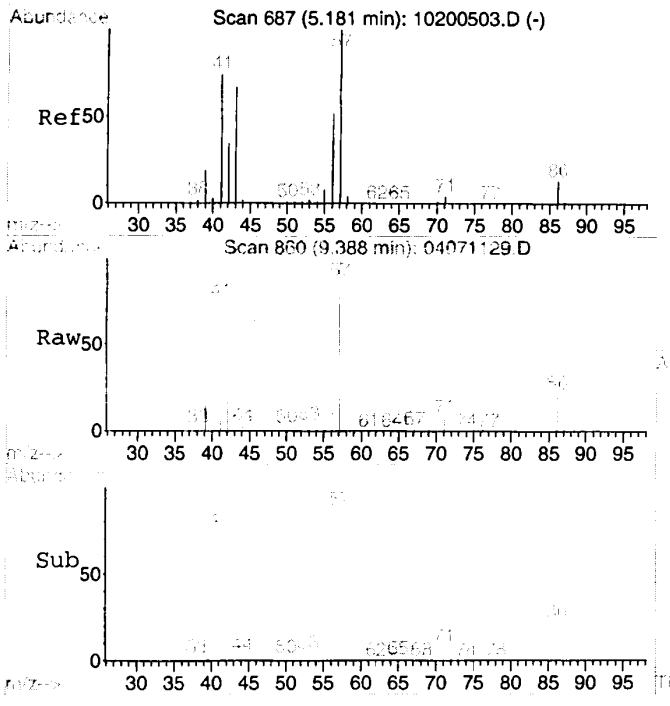


#14
Acetone
Concen: 1.43 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.01 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 43 Resp: 109715

Ion	Ratio	Lower	Upper
43	100		
58	28.3	22.0	33.0
39	2.7	6.5	9.7#

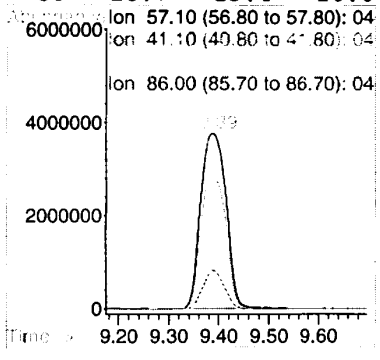


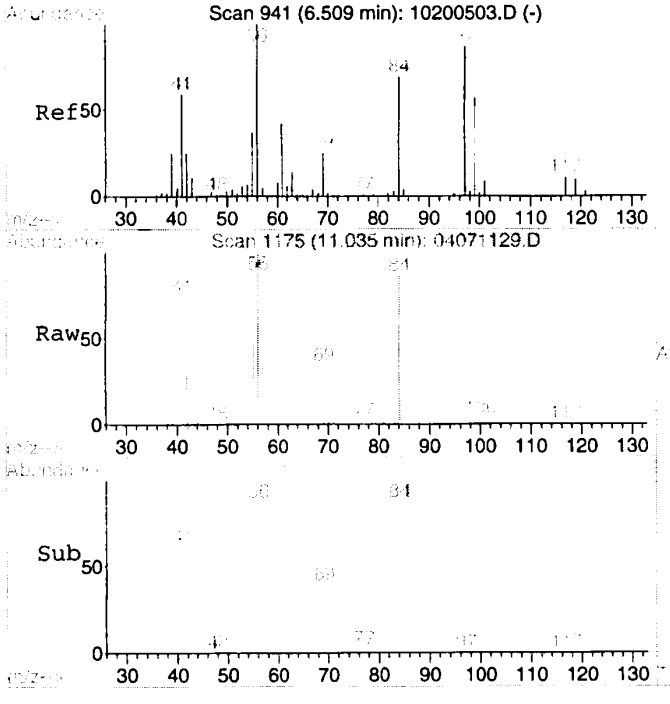


#20
n-Hexane
Concen: 141.44 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 57 Resp:13454483

Ion	Ratio	Lower	Upper
57	100		
41	75.3	57.2	85.8
53	3.4	1.8	2.8#
86	18.7	13.4	20.0

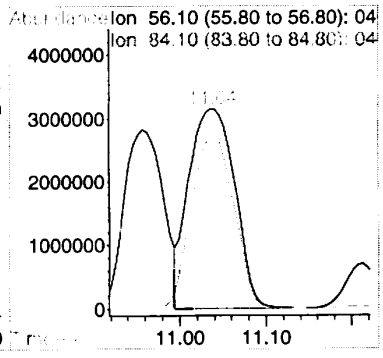


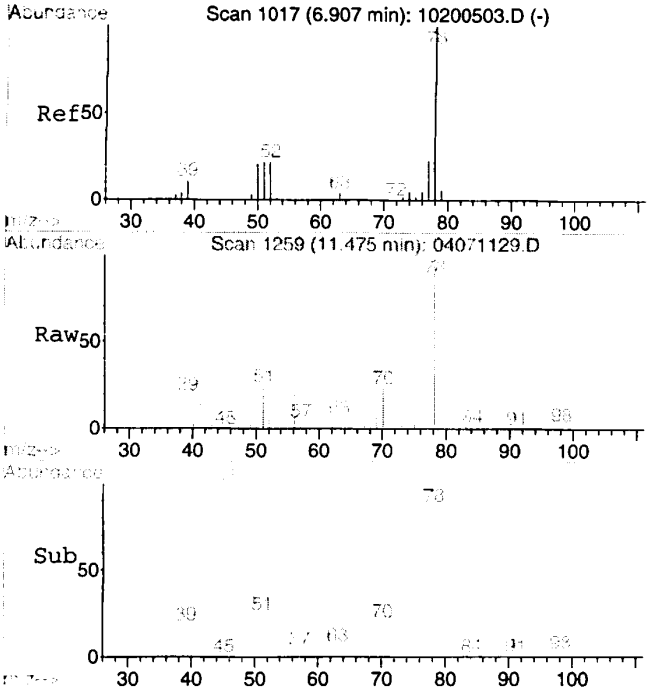


#29
Cyclohexane
Concen: 122.69 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 56 Resp:11694243

Ion	Ratio	Lower	Upper
56	100		
84	80.9	72.4	108.6
41	71.5	43.8	65.8#

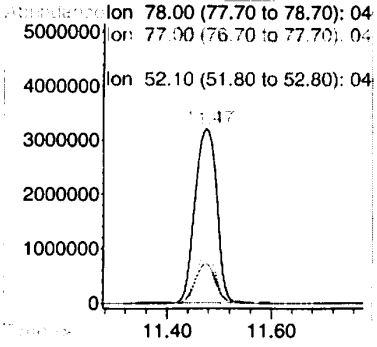


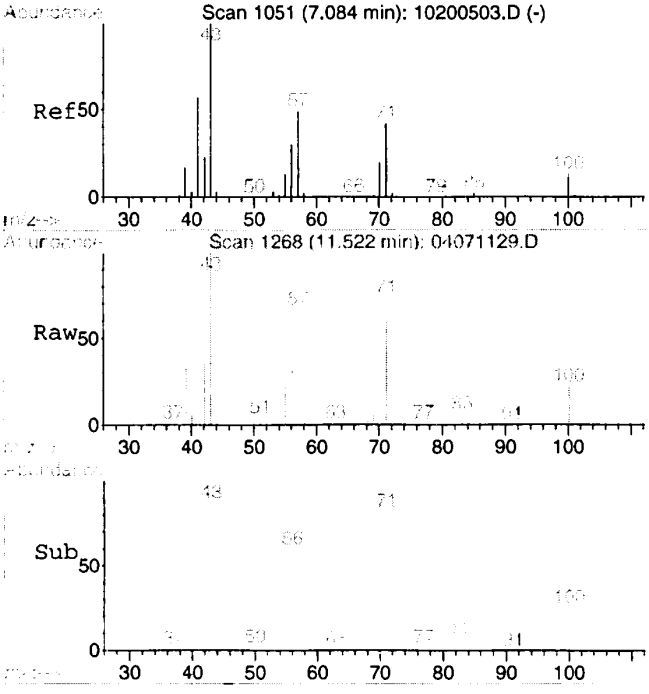


#31
Benzene
Concen: 62.62 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 78 Resp: 9494030

Ion	Ratio	Lower	Upper
78	100		
77	27.1	3.7	43.7
51	24.7	0.0	36.1
52	21.6	0.0	36.0

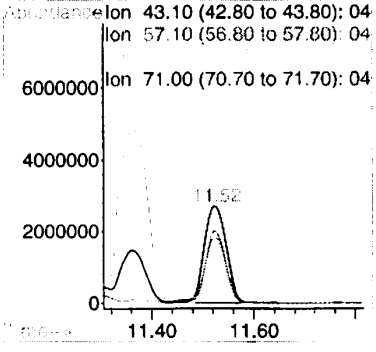


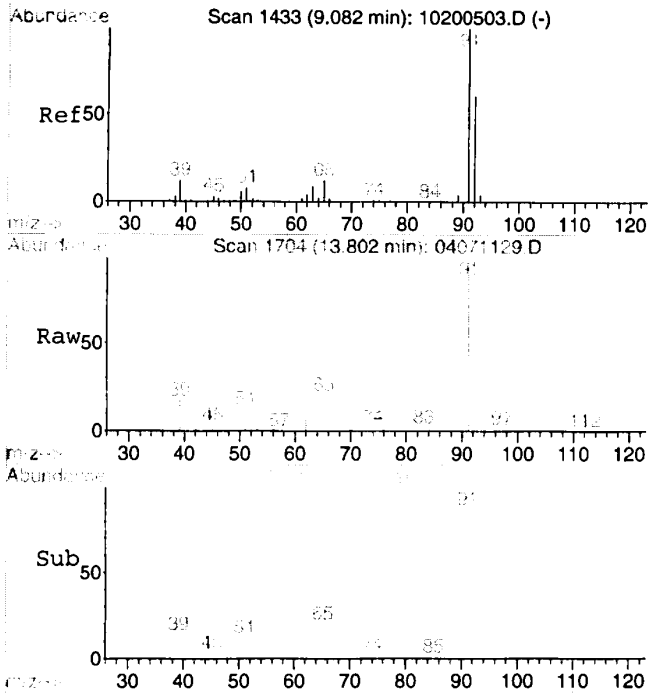


#34
Heptane
Concen: 82.44 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 43 Resp: 8318596

Ion	Ratio	Lower	Upper
43	100		
57	63.9	42.2	63.4#
100	18.5	17.3	25.9
71	66.5	48.3	72.5

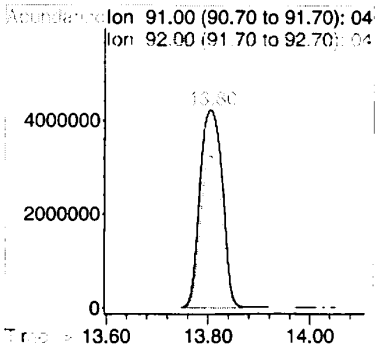


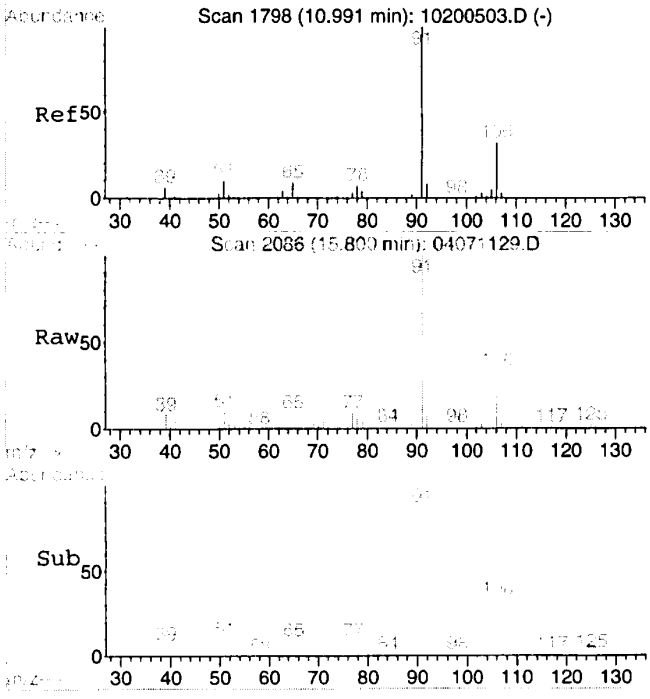


#41
Toluene
Concen: 85.60 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 91 Resp:13102754

Ion	Ratio	Lower	Upper
91	100		
92	71.1	40.5	80.5
65	16.5	0.0	31.2

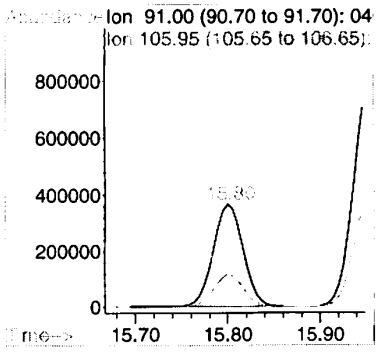


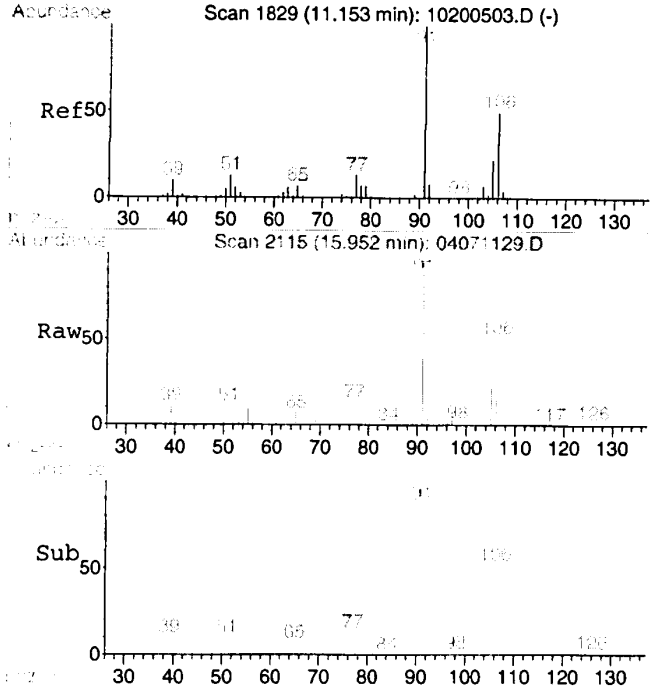


#50
Ethylbenzene
Concen: 3.92 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 91 Resp: 825738

Ion	Ratio	Lower	Upper
91	100		
106	31.9	14.9	54.9
51	11.0	0.0	33.1

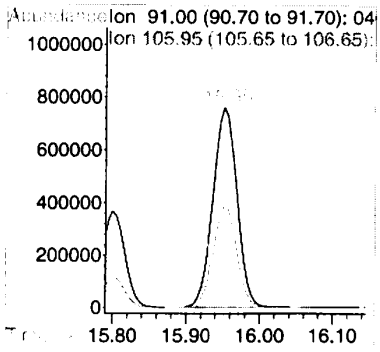


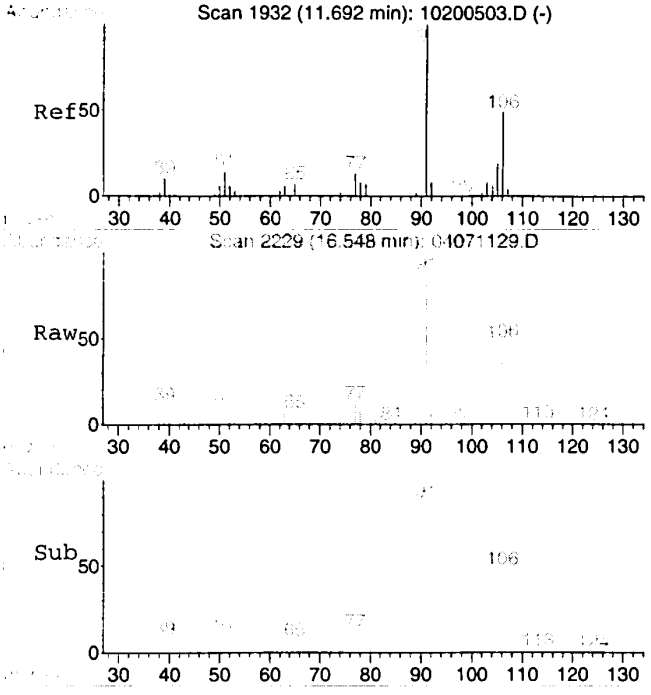


#51
m,p-Xylene
Concen: 10.74 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 91 Resp: 1727604

Ion	Ratio	Lower	Upper
91	100		
106	50.9	35.6	75.6
51	10.8	0.0	29.6

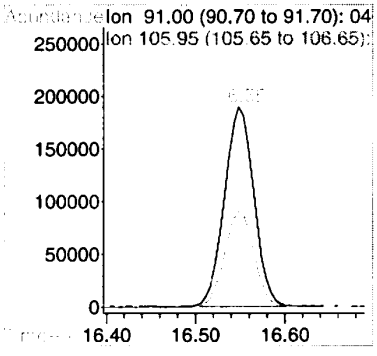




#52
o-Xylene
Concen: 2.68 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. 0.00 min
Lab File: 04071129.D
Acq: 8 Apr 2011 10:08 am

Tgt Ion: 91 Resp: 432904

Ion	Ratio	Lower	Upper
91	100		
106	47.8	41.0	61.6
51	13.3	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D
Acq On : 8 Apr 2011 10:08 am
Sample : 1103609-026A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 28
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.356	63	89	126	rBV	878328	4577711	5.32%	0.436%
2	6.328	256	275	289	rBV2	933201	3460974	4.02%	0.330%
3	7.186	420	439	481	rBV	11621744	45626789	53.03%	4.350%
4	7.557	493	510	540	rVB	9541586	33442685	38.87%	3.188%
5	8.175	612	628	654	rBV	3092491	9995769	11.62%	0.953%
6	8.766	722	741	760	rBV4	17987229	86035471	100.00%	8.202%
7	8.928	760	772	788	rVV	4733054	14090778	16.38%	1.343%
8	9.085	788	802	821	rVV	12165212	41392230	48.11%	3.946%
9	9.388	847	860	912	rVB	16564896	57321933	66.63%	5.464%
10	9.911	948	960	967	rBV	1136334	3105152	3.61%	0.296%
11	10.005	967	978	1003	rVB	11673352	35305302	41.04%	3.366%
12	10.214	1003	1018	1044	rBV	15448862	52019376	60.46%	4.959%
13	10.685	1096	1108	1115	rBV	665464	1850734	2.15%	0.176%
14	10.811	1115	1132	1146	rVV	11943500	38291750	44.51%	3.650%
15	10.957	1147	1160	1167	rVV	14023920	43329126	50.36%	4.131%
16	11.035	1167	1175	1197	rVV2	20233448	70256351	81.66%	6.697%
17	11.213	1197	1209	1218	rVV	3966211	10706413	12.44%	1.021%
18	11.370	1218	1239	1250	rVV4	15249545	65121477	75.69%	6.208%
19	11.470	1250	1258	1263	rVV2	12589436	35711791	41.51%	3.404%
20	11.527	1263	1269	1308	rVB4	18131485	53872206	62.62%	5.136%
21	11.862	1322	1333	1345	rVB	2195615	5017344	5.83%	0.478%
22	12.013	1351	1362	1378	rVB	430955	1112519	1.29%	0.106%
23	12.202	1386	1398	1406	rBV	3086501	7244027	8.42%	0.691%
24	12.285	1406	1414	1423	rBV	7249149	18745149	21.79%	1.787%
25	12.395	1425	1435	1457	rVB	19983011	67577428	78.55%	6.442%
26	12.573	1457	1469	1474	rBV2	2488721	6793545	7.90%	0.648%
27	12.625	1474	1479	1494	rVB	2669989	6142352	7.14%	0.586%
28	12.798	1498	1512	1526	rBV2	7911412	21188762	24.63%	2.020%
29	12.944	1526	1540	1546	rBV2	7912416	25649527	29.81%	2.445%
30	13.148	1567	1579	1596	rBV2	4815778	14639290	17.02%	1.396%
31	13.269	1596	1602	1608	rVB	571152	1095356	1.27%	0.104%
32	13.342	1608	1616	1631	rVB	2257197	6040857	7.02%	0.576%
33	13.572	1648	1660	1667	rBV	6980135	19646035	22.83%	1.873%
34	13.671	1673	1679	1693	rVB	8675385	20708850	24.07%	1.974%
35	13.807	1693	1705	1721	rVB	13816919	42812625	49.76%	4.081%
36	13.933	1721	1729	1742	rVB4	377580	1184403	1.38%	0.113%
37	14.079	1744	1757	1769	rBV2	3483061	9261235	10.76%	0.883%
38	14.200	1769	1780	1789	rBV4	1208279	3508313	4.08%	0.334%
39	14.283	1789	1796	1805	rBV	1100294	2220352	2.58%	0.212%
40	14.456	1821	1829	1836	rBV	610733	1400289	1.63%	0.133%
41	14.524	1836	1842	1852	rVV4	405550	1073257	1.25%	0.102%
42	14.686	1864	1873	1886	rBV2	518408	1270304	1.48%	0.121%
43	14.827	1886	1900	1906	rVV	4394585	11476841	13.34%	1.094%

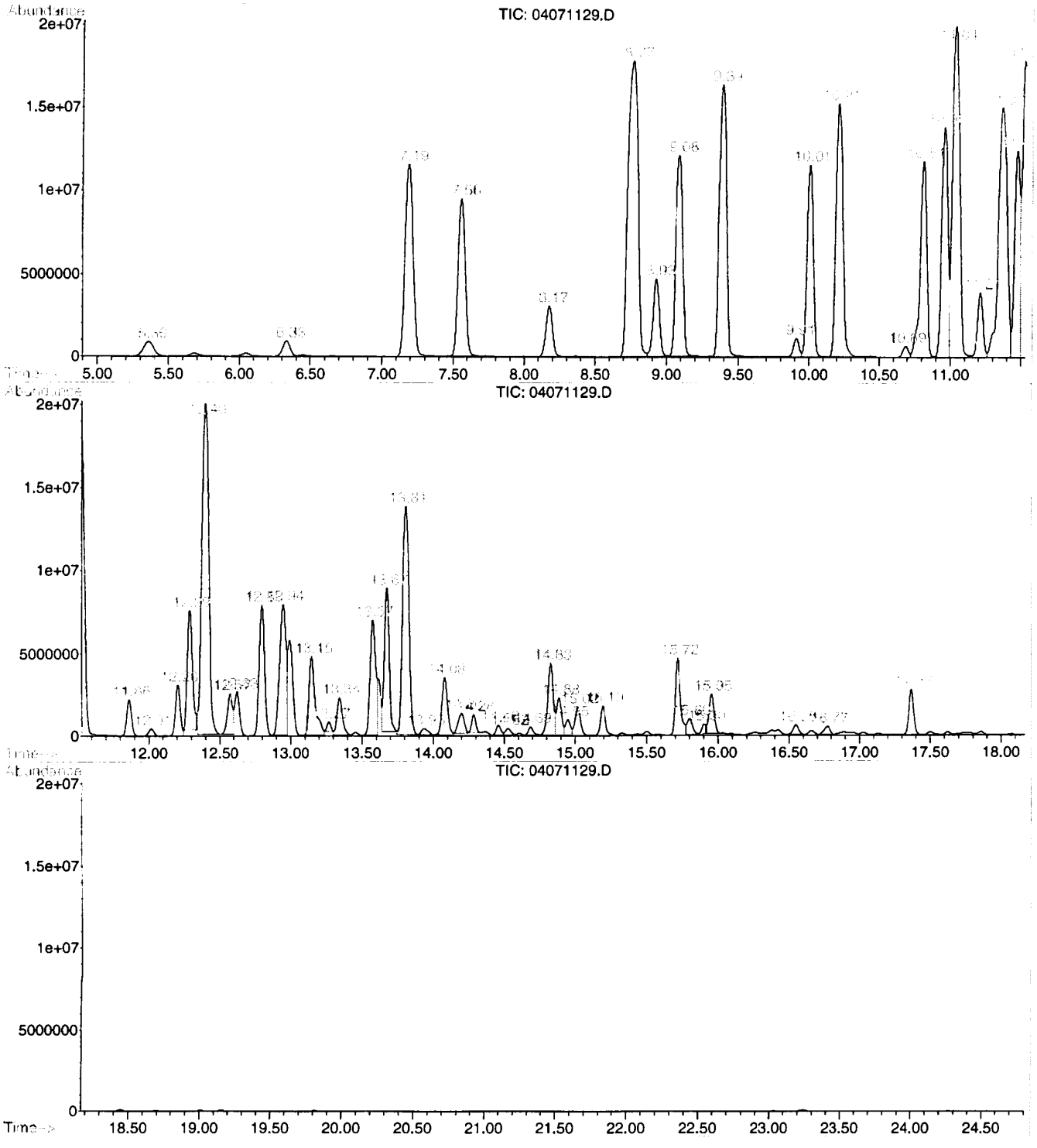
44	14.885	1906	1911	1918	rVV	2274509	5577864	6.48%	0.532%
45	14.948	1918	1923	1929	rVV3	934806	2311657	2.69%	0.220%
46	15.016	1929	1936	1956	rVB2	1733470	4638345	5.39%	0.442%
47	15.193	1956	1970	1988	rBV	1795457	4407673	5.12%	0.420%
48	15.716	2058	2070	2081	rBV	4689932	11885137	13.81%	1.133%
49	15.800	2082	2086	2098	rVV	953388	2305217	2.68%	0.220%
50	15.905	2098	2106	2108	rVV	611027	1181426	1.37%	0.113%
51	15.952	2109	2115	2127	rVB	2399008	5883220	6.84%	0.561%
52	16.548	2217	2229	2240	rVB	600395	1619680	1.88%	0.154%
53	16.773	2259	2272	2281	rVB7	490915	1471463	1.71%	0.140%
54	17.369	2374	2386	2401	rVB	2776763	6393148	7.43%	0.609%

Sum of corrected areas: 1048997508

04071129.D 040711V1.M Thu Apr 14 16:02:26 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071129.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 10:08 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-026A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 28
Quant File :040711V1.RES (RTE Integrator)



04071129.D 040711V1.M Thu Apr 14 16:02:26 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	14.89 ppbv	45626800	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	3-Buten-1-ol	72	C4H8O	000627-27-0	47
3	Butane, 2-methyl-	72	C5H12	000078-78-4	38
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25
5	3-Buten-1-ol	72	C4H8O	000627-27-0	25

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Peak Number 2 Pentane $$ n-Pentane $$ Skelly Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	10.92 ppbv	33442700	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	90
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	58
5	Butane, 2-methyl-	72	C5H12	000078-78-4	39

****

Peak Number 3 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	28.09 ppbv	86035500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	87
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	83
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	52

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	13.51 ppbv	41392200	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 5 Pentane, 2,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	11.53 ppbv	35305300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
3	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	72
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

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Peak Number 6 Cyclopentane, methyl- $$ Methy Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	16.98 ppbv	52019400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	94
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	86

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	14.14 ppbv	43329100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	162.24 ppbv	65121500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4,4-tetramethyl- $$ Di	128	C9H20	001070-87-7	64
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	53
5	4-Penten-2-ol, 4-methyl- $$ 4-Methy	100	C6H12O	002004-67-3	53

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Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	18.05 ppbv	7244030	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	93
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	47
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	47
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	46

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 1-(hexyloxy)-3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	46.70 ppbv	18745100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	64
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	38

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	168.36 ppbv	67577400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
2	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	80
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	72
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	16.93 ppbv	6793550	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	78
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	50
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	15.30 ppbv	6142350	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	86
2	Cyclopentane, 1,2,4-trimethyl-, (1.	112	C8H16	004850-28-6	72
3	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	50
4	Cyclopropane, 1-bromo-2-(1,1-dimeth	176	C7H13Br	055682-99-0	39
5	Heptane, 3-methylene- $$ 1-Hexene,	112	C8H16	001632-16-2	39

****

Peak Number 14 1-Hexene, 4-ethyl- $$ 4-Ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	52.79 ppbv	21188800	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 4-ethyl- $$ 4-Ethyl-1-hex	112	C8H16	016746-85-3	64
2	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	53
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50

****

Peak Number 15 Hexane, 2,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	63.90 ppbv	25649500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	87
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
5	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	43

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	36.47 ppbv	14639300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

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Peak Number 17 Hexane, 2,2,5-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	15.05 ppbv	6040860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	72

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	48.95 ppbv	19646000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071129.D Vial: 28
Acq On : 8 Apr 2011 10:08 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane $$ n-Octane $$ n-C8H18 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	51.59 ppbv	20708900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane	114	C8H18	000111-65-9	80
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	72

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Peak Number 20 Cyclohexane, ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	12.07 ppbv	11476800	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 10:08 am
Data File: C:\HPCHEM\1\DATA\040711\04071129.D
Name: 1103609-026A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Butane, 2-methyl-	7.19	14.9	ppbv	45626800	ISTD01	10.76	38291800	12.5
Pentane $$ n-Pentane	7.56	10.9	ppbv	33442700	ISTD01	10.76	38291800	12.5
Pentane, 2-methyl-	8.77	28.1	ppbv	86035500	ISTD01	10.76	38291800	12.5
Pentane, 3-methyl-	9.08	13.5	ppbv	41392200	ISTD01	10.76	38291800	12.5
Pentane, 2,4-dimethy	10.01	11.5	ppbv	35305300	ISTD01	10.76	38291800	12.5
Cyclopentane, methyl	10.21	17.0	ppbv	52019400	ISTD01	10.76	38291800	12.5
Pentane, 2,3-dimethy	10.96	14.1	ppbv	43329100	ISTD01	10.76	38291800	12.5
Hexane, 2,2-dimethyl	11.37	162.2	ppbv	65121500	ISTD02	11.86	5017340	12.5
Hexane, 2,5-dimethyl	12.20	18.0	ppbv	7244030	ISTD02	11.86	5017340	12.5
Hexane, 1-(hexyloxy)	12.29	46.7	ppbv	18745100	ISTD02	11.86	5017340	12.5
Cyclohexane, methyl-	12.40	168.4	ppbv	67577400	ISTD02	11.86	5017340	12.5
Cyclopentane, ethyl-	12.57	16.9	ppbv	6793550	ISTD02	11.86	5017340	12.5
Cyclopentane, 1,2,4-	12.63	15.3	ppbv	6142350	ISTD02	11.86	5017340	12.5
1-Hexene, 4-ethyl- $	12.80	52.8	ppbv	21188800	ISTD02	11.86	5017340	12.5
Hexane, 2,5-dimethyl	12.94	63.9	ppbv	25649500	ISTD02	11.86	5017340	12.5
Heptane, 3-methyl-	13.15	36.5	ppbv	14639300	ISTD02	11.86	5017340	12.5
Hexane, 2,2,5-trimet	13.34	15.0	ppbv	6040860	ISTD02	11.86	5017340	12.5
Cyclohexane, 1,3-dim	13.57	48.9	ppbv	19646000	ISTD02	11.86	5017340	12.5
Octane $$ n-Octane $	13.67	51.6	ppbv	20708900	ISTD02	11.86	5017340	12.5
Cyclohexane, ethyl-	14.83	12.1	ppbv	11476800	ISTD03	15.72	11885100	12.5

04071129.D 040711V1.M Thu Apr 14 16:02:27 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 11:16 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	687058	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2242485	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2054743	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1311319	12.71	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.68%				
Target Compounds							Qvalue
2) Propylene*	5.68	41	243313	4.58	ppbv		91
-20) n-Hexane	9.39	57	13792885	142.57	ppbv	#	96
-29) Cyclohexane	11.04	56	11720515	120.91	ppbv	#	86
-31) Benzene	11.48	78	9640101	62.52	ppbv		88
-34) Heptane	11.53	43	8342359	81.63	ppbv	#	89
-41) Toluene	13.81	91	13325178	85.95	ppbv		86
50) Ethylbenzene*	15.80	91	859170	4.01	ppbv		95
51) m,p-Xylene*	15.95	91	1829884	11.17	ppbv		94
52) o-Xylene*	16.55	91	440731	2.68	ppbv	#	88

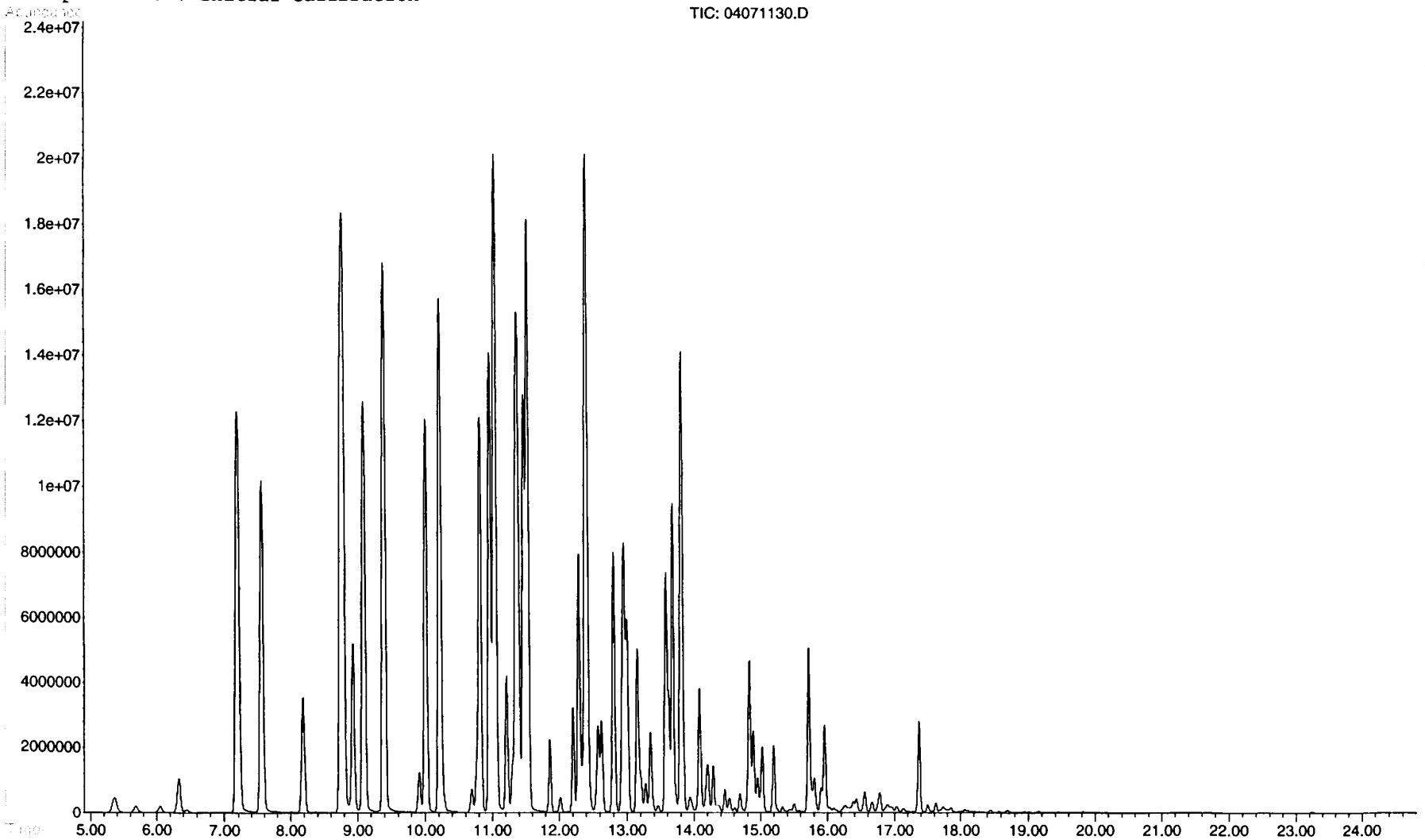
* = reported only 4/15/11 AP

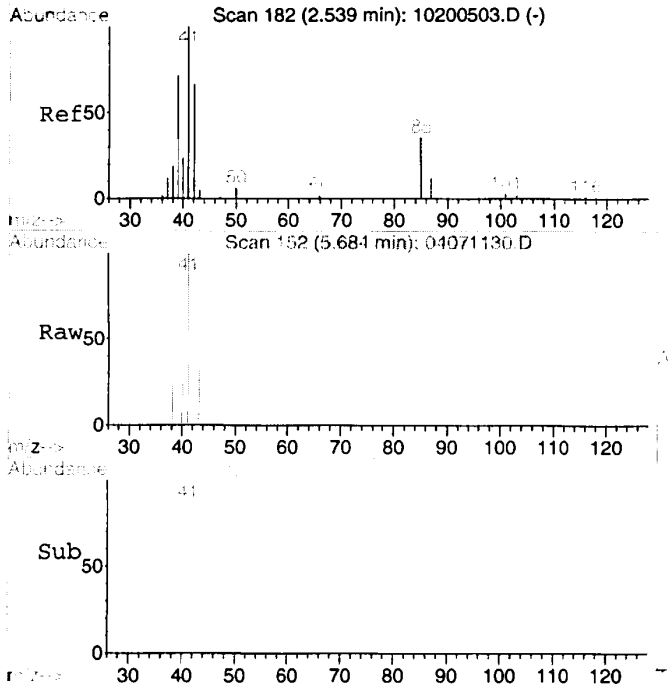
(#) = qualifier out of range (m) = manual integration
04071130.D 040711V1.M Thu Apr 14 16:04:58 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 11:16 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

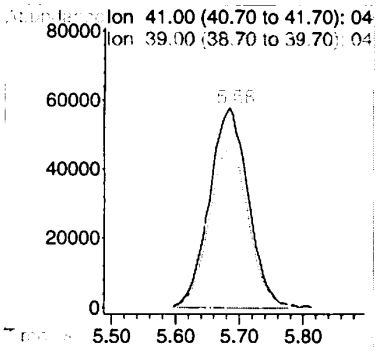


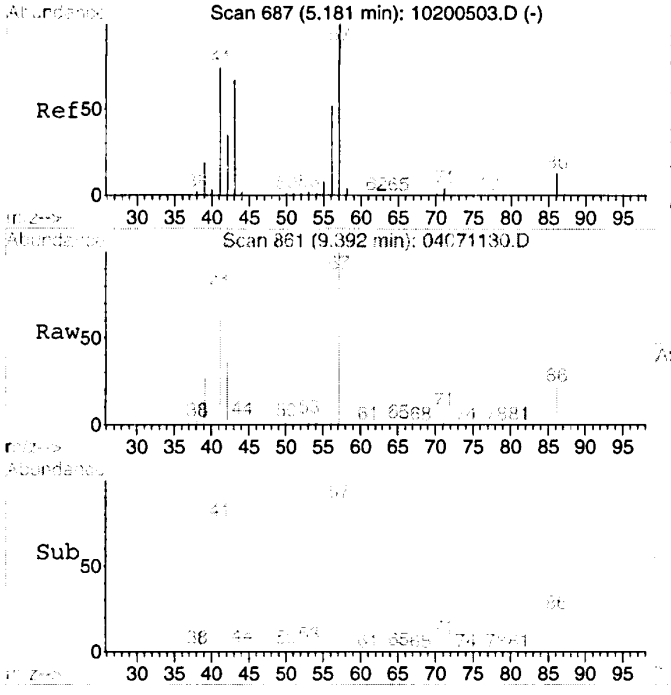


#2
Propylene
Concen: 4.58 ppbv
RT: 5.68 min Scan# 152
Delta R.T. -0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 41 Resp: 243313

Ion	Ratio	Lower	Upper
41	100		
39	81.0	57.6	86.4
42	62.1	54.0	81.0

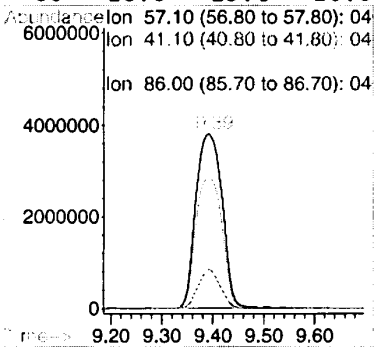


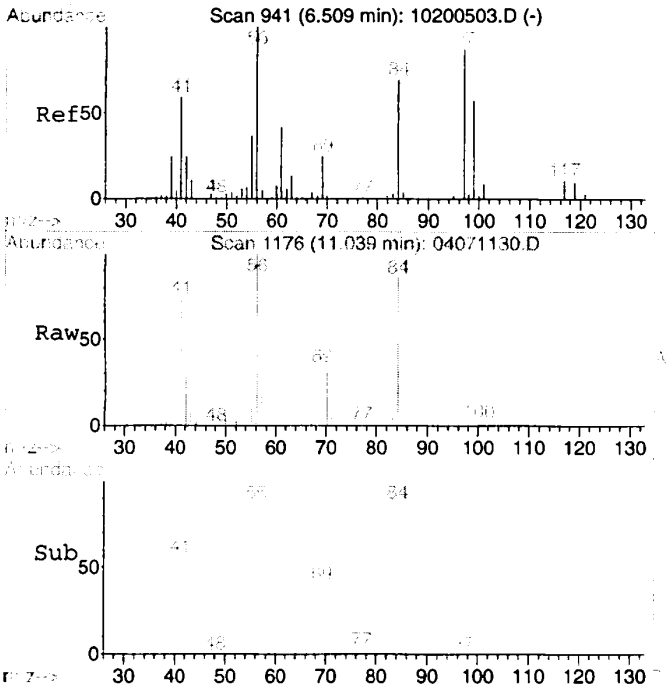


#20
n-Hexane
Concen: 142.57 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 57 Resp:13792885

Ion	Ratio	Lower	Upper
57	100		
41	75.1	57.2	85.8
53	3.5	1.8	2.8#
86	18.8	13.4	20.0

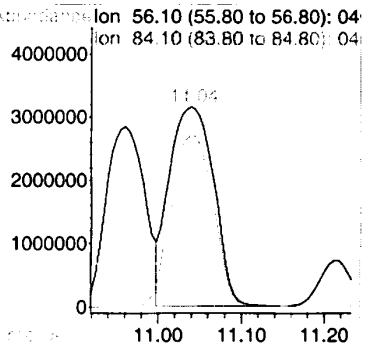


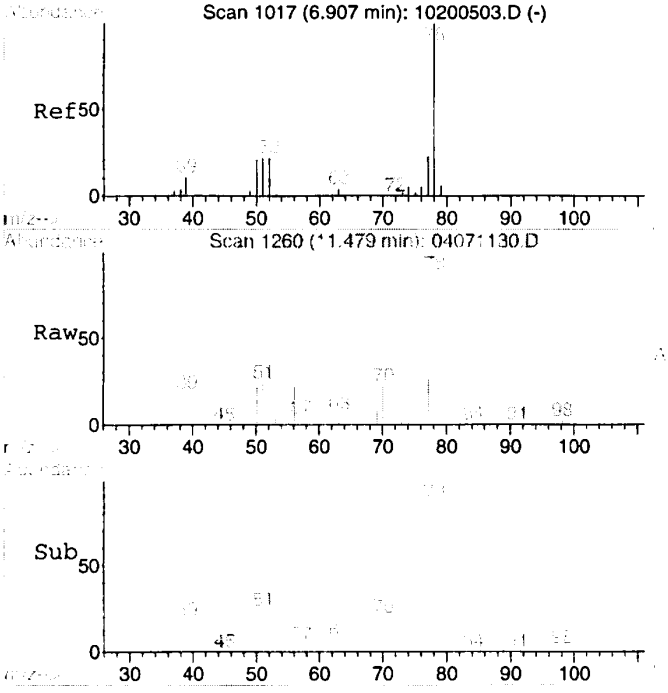


#29
Cyclohexane
Concen: 120.91 ppbv
RT: 11.04 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 56 Resp:11720515

Ion	Ratio	Lower	Upper
56	100		
84	81.9	72.4	108.6
41	71.6	43.8	65.8#

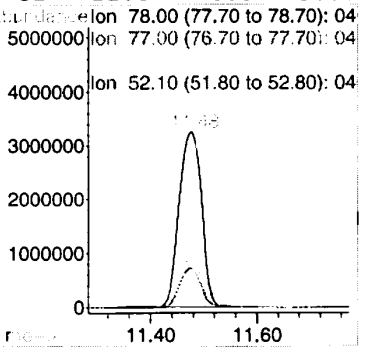


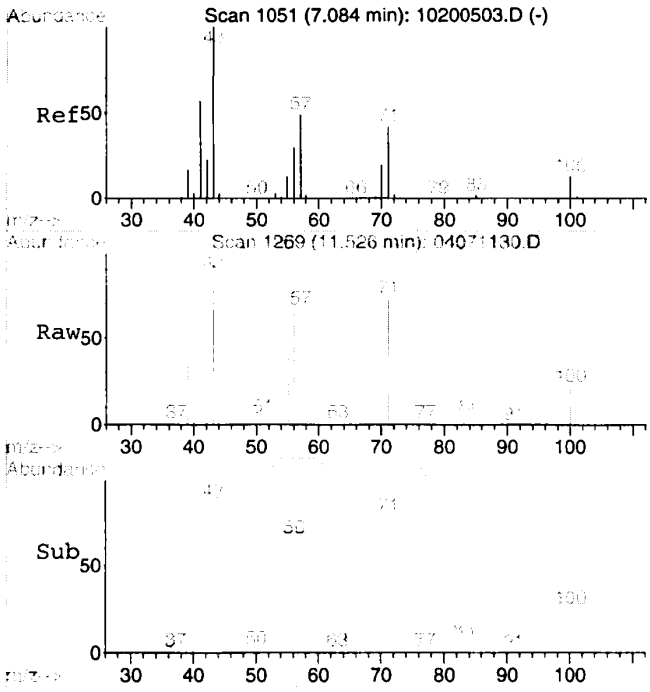


#31
Benzene
Concen: 62.52 ppbv
RT: 11.48 min Scan# 1260
Delta R.T. 0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 78 Resp: 9640101

Ion	Ratio	Lower	Upper
78	100		
77	27.1	3.7	43.7
51	24.6	0.0	36.1
52	21.6	0.0	36.0

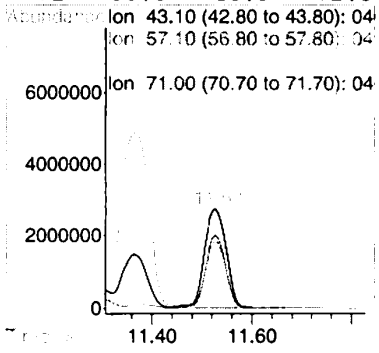


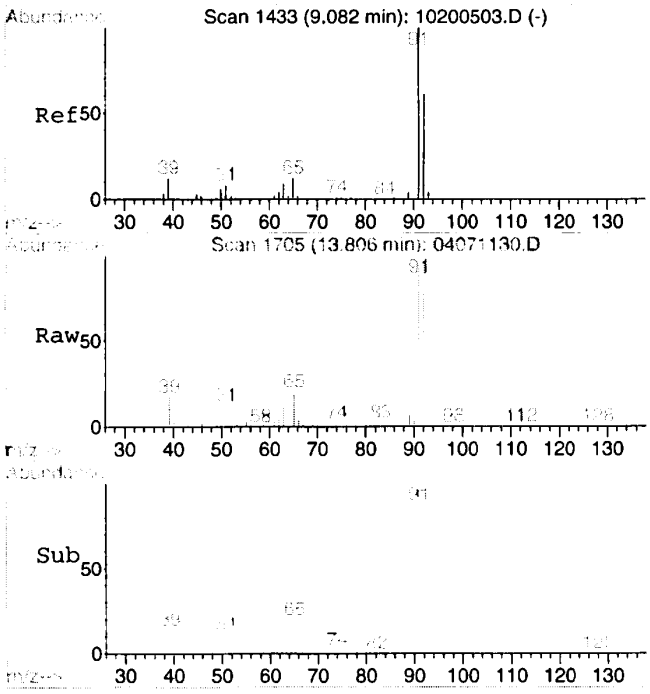


#34
Heptane
Concen: 81.63 ppbv
RT: 11.53 min Scan# 1269
Delta R.T. 0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 43 Resp: 8342359

Ion	Ratio	Lower	Upper
43	100		
57	63.9	42.2	63.4#
100	18.4	17.3	25.9
71	66.5	48.3	72.5

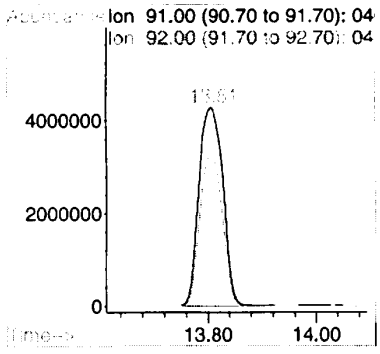


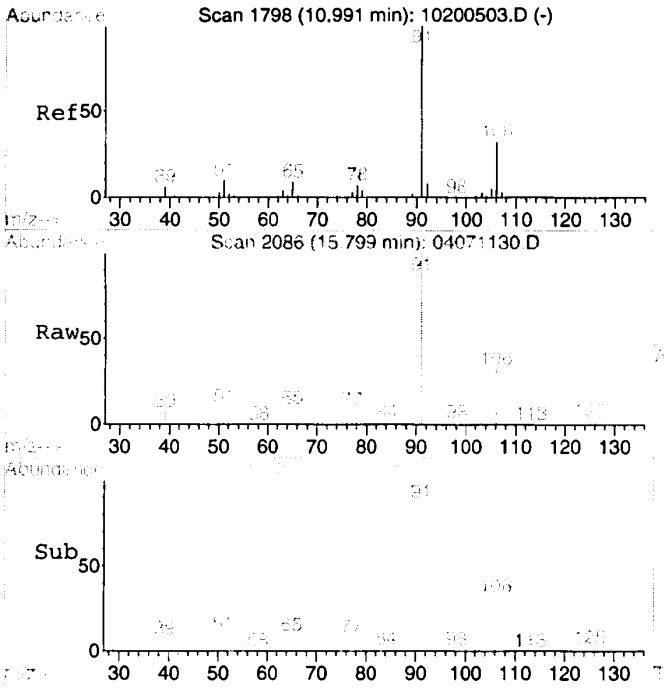


#41
Toluene
Concen: 85.95 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 91 Resp:13325178

Ion	Ratio	Lower	Upper
91	100		
92	71.2	40.5	80.5
65	16.6	0.0	31.2

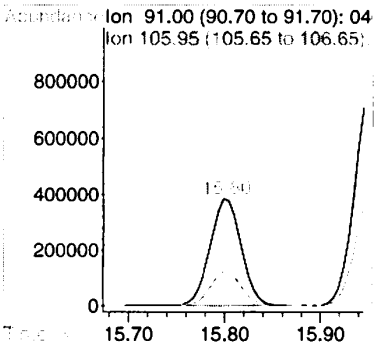


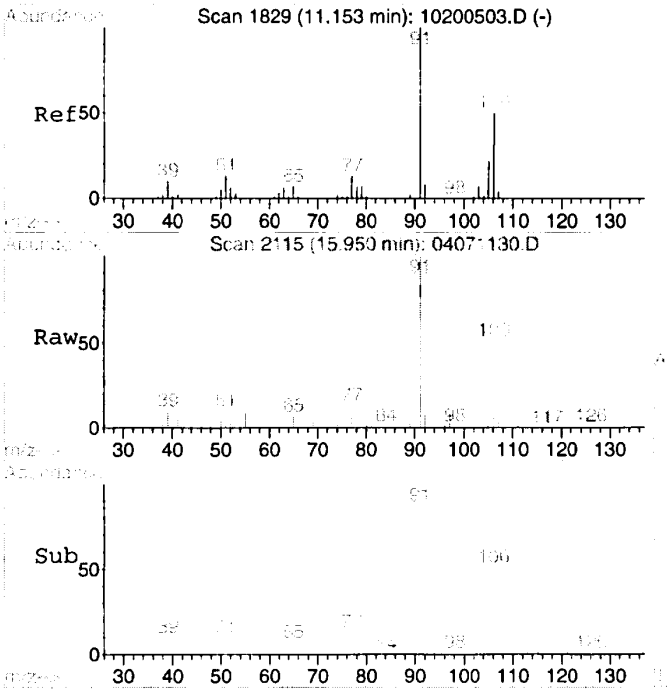


#50
Ethylbenzene
Concen: 4.01 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 91 Resp: 859170

Ion	Ratio	Lower	Upper
91	100		
106	32.1	14.9	54.9
51	11.2	0.0	33.1

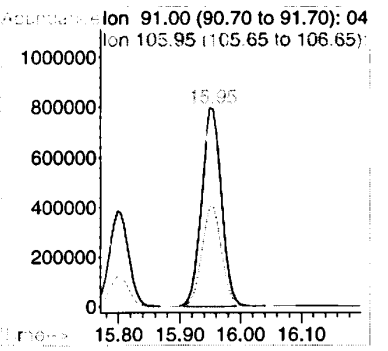


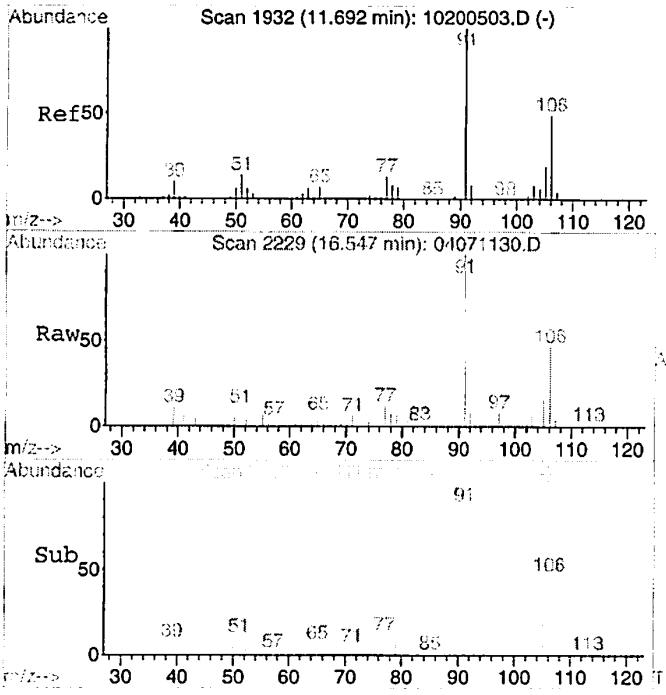


#51
m,p-Xylene
Concen: 11.17 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 91 Resp: 1829884

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.6	75.6
51	10.7	0.0	29.6

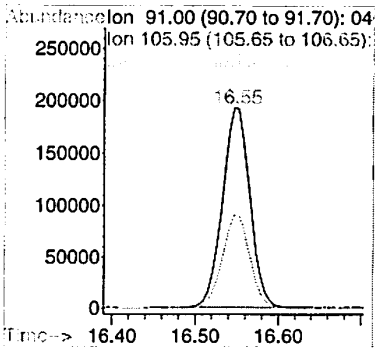




#52
o-Xylene
Concen: 2.68 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04071130.D
Acq: 8 Apr 2011 10:49 am

Tgt Ion: 91 Resp: 440731

Ion	Ratio	Lower	Upper
91	100		
106	47.3	41.0	61.6
51	11.8	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	63	90	125	rBV	464968	2426517	2.72%	0.223%
2	5.684	134	152	178	rVB2	212570	907826	1.02%	0.083%
3	6.332	257	276	290	rBV2	1066298	3945169	4.43%	0.362%
4	7.185	420	439	484	rBV	12304832	49532357	55.58%	4.549%
5	7.556	493	510	543	rBV	10157793	36304490	40.74%	3.334%
6	8.184	612	630	656	rBV	3539882	11413106	12.81%	1.048%
7	8.769	722	742	761	rBV4	18369360	89115613	100.00%	8.183%
8	8.932	761	773	789	rVV	5199802	15763935	17.69%	1.448%
9	9.088	789	803	837	rVB	12571779	43777574	49.12%	4.020%
10	9.392	847	861	895	rVB	16809652	58404500	65.54%	5.363%
11	9.915	948	961	968	rBV	1237114	3441978	3.86%	0.316%
12	10.009	968	979	1004	rVB	12052258	37038494	41.56%	3.401%
13	10.213	1004	1018	1045	rBV	15736996	53729624	60.29%	4.934%
14	10.689	1097	1109	1116	rBV	725697	2034123	2.28%	0.187%
15	10.814	1116	1133	1147	rVV	12114014	39330589	44.13%	3.612%
16	10.961	1147	1161	1168	rVV	14078344	44727052	50.19%	4.107%
17	11.034	1168	1175	1197	rVV2	20126780	70416660	79.02%	6.466%
18	11.212	1198	1209	1219	rVV	4171475	11361288	12.75%	1.043%
19	11.369	1219	1239	1251	rVV4	15318286	66190502	74.27%	6.078%
20	11.473	1251	1259	1263	rVV2	12777941	34238286	38.42%	3.144%
21	11.531	1264	1270	1307	rVB4	18134165	52927807	59.39%	4.860%
22	11.860	1322	1333	1347	rVB	2223559	5074300	5.69%	0.466%
23	12.017	1352	1363	1377	rVB	467692	1187222	1.33%	0.109%
24	12.206	1387	1399	1406	rBV	3223571	7418624	8.32%	0.681%
25	12.289	1406	1415	1424	rVV	7948453	21716012	24.37%	1.994%
26	12.399	1425	1436	1457	rVV	20138725	69795993	78.32%	6.409%
27	12.577	1457	1470	1474	rVV3	2658690	7324613	8.22%	0.673%
28	12.624	1475	1479	1493	rVB	2819989	6223999	6.98%	0.572%
29	12.797	1499	1512	1526	rBV2	7988780	21690367	24.34%	1.992%
30	12.948	1526	1541	1546	rBV3	8253128	25879089	29.04%	2.376%
31	13.147	1568	1579	1596	rBV2	5024404	15519947	17.42%	1.425%
32	13.273	1596	1603	1609	rBV	598732	1180036	1.32%	0.108%
33	13.346	1609	1617	1631	rVB	2408649	6412263	7.20%	0.589%
34	13.576	1648	1661	1667	rBV	7358670	20438868	22.94%	1.877%
35	13.675	1674	1680	1694	rVB	9216027	21552028	24.18%	1.979%
36	13.806	1694	1705	1721	rVB	14042184	43766510	49.11%	4.019%
37	13.937	1721	1730	1742	rVB4	418058	1318836	1.48%	0.121%
38	14.078	1744	1757	1769	rBV2	3743400	9876301	11.08%	0.907%
39	14.198	1769	1780	1789	rBV4	1302518	3860351	4.33%	0.354%
40	14.282	1789	1796	1805	rBV	1223104	2517356	2.82%	0.231%
41	14.460	1821	1830	1836	rBV	688787	1546598	1.74%	0.142%
42	14.528	1836	1843	1852	rVV3	427612	1098602	1.23%	0.101%
43	14.685	1865	1873	1886	rBV2	557375	1366626	1.53%	0.125%

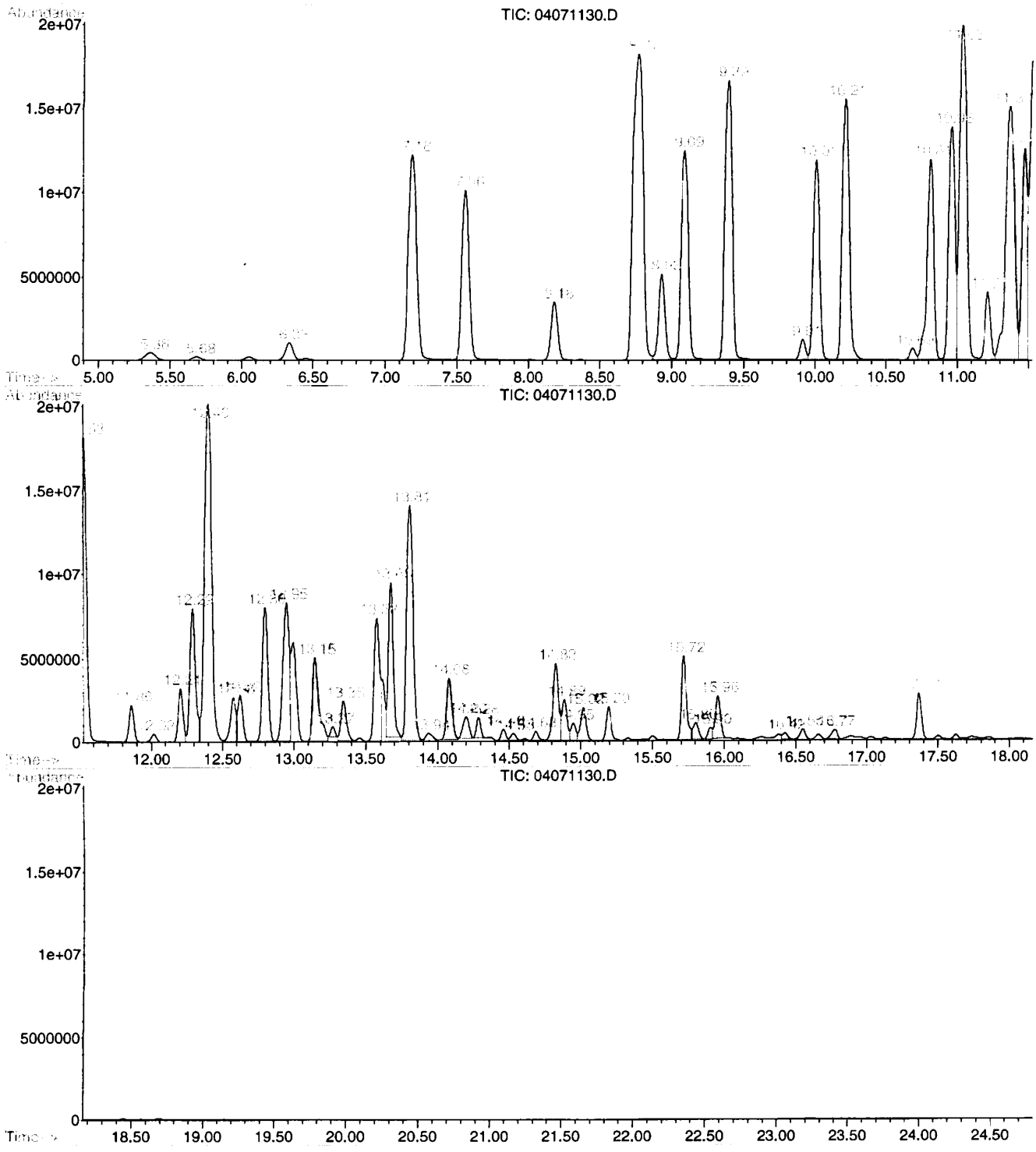
44	14.826	1886	1900	1907	rVV	4627672	12590661	14.13%	1.156%
45	14.889	1907	1912	1919	rVV	2471169	5927985	6.65%	0.544%
46	14.946	1919	1923	1929	rVV4	1030979	2410939	2.71%	0.221%
47	15.019	1929	1937	1954	rVB2	2011739	5367685	6.02%	0.493%
48	15.197	1958	1971	1988	rBV	2046175	4996283	5.61%	0.459%
49	15.720	2058	2071	2081	rBV	5047945	12828188	14.39%	1.178%
50	15.804	2082	2087	2098	rVB	999174	2479724	2.78%	0.228%
51	15.903	2098	2106	2109	rBV	696162	1493452	1.68%	0.137%
52	15.956	2109	2116	2127	rVB	2571962	6317818	7.09%	0.580%
53	16.421	2201	2205	2217	rVB	389091	915927	1.03%	0.084%
54	16.547	2217	2229	2240	rVB	622069	1656970	1.86%	0.152%
55	16.771	2260	2272	2281	rVB6	572038	1698968	1.91%	0.156%
56	17.368	2374	2386	2400	rVB	2806630	6493736	7.29%	0.596%

Sum of corrected areas: 1088970367

04071130.D 040711V1.M Thu Apr 14 16:05:04 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071130.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 10:49 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-027A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 29
Quant File :040711V1.RES (RTE Integrator)



04071130.D 040711V1.M Thu Apr 14 16:05:04 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Butane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.18	15.74 ppbv	49532400	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	64
2	3-Buten-1-ol	72	C4H8O	000627-27-0	47
3	Butane, 2-methyl-	72	C5H12	000078-78-4	38
4	3-Buten-1-ol $$ Allylcarbinol $$ 1-	72	C4H8O	000627-27-0	25
5	3-Buten-1-ol	72	C4H8O	000627-27-0	25

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	28.32 ppbv	89115600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	87
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	83
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
5	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	53

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	13.91 ppbv	43777600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	64

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	11.77 ppbv	37038500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	87
3	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	83
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	72
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	17.08 ppbv	53729600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	94
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	86

****

Peak Number 6 Hexane, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.81	12.50 ppbv	39330600	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2-methyl-	100	C7H16	000591-76-4	74
2	Hexane, 2-methyl-	100	C7H16	000591-76-4	64
3	2-Pyrrolidinone	85	C4H7NO	000616-45-5	50
4	Hexane, 2-methyl-	100	C7H16	000591-76-4	49
5	Hexane, 2-methyl-	100	C7H16	000591-76-4	46

Data File : C:\HPCHEM\1\DATA\040711\04071130.D
Acq On : 8 Apr 2011 10:49 am
Sample : 1103609-027A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 29
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 8000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,3-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	14.22 ppbv	44727100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	163.05 ppbv	66190500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Hexane, 2,2-dimethyl- $$ 2,2-Dimeth	114	C8H18	000590-73-8	72
3	Pentane, 2,2,4,4-tetramethyl- $$ Di	128	C9H20	001070-87-7	64
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	53
5	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	53

****

Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	18.27 ppbv	7418620	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	94
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	90
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	78
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	49
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	47

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	53.50 ppbv	21716000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47
2	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	45
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
4	1-Pentanol, 2,2-dimethyl-	116	C7H16O	002370-12-9	42
5	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	38

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	171.94 ppbv	69796000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	94
2	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	80
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	72
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	53

****

Peak Number 12 Cyclopentane, ethyl- $$ Ethylc Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	18.04 ppbv	7324610	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl- $$ Ethylcyclop	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	70
3	Cyclopentane, ethyl-	98	C7H14	001640-89-7	64
4	Cyclopentane, ethyl-	98	C7H14	001640-89-7	43
5	1-Heptene	98	C7H14	000592-76-7	38

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclopentane, 1,2,4-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	15.33 ppbv	6224000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	87
2	Cyclobutane, 1,1,2,3,3-pentamethyl-	126	C9H18	057905-86-9	72
3	2,3-Dimethyl-1-hexene	112	C8H16	1674686-45-3	72
4	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	56
5	Heptane, 3-methylene-	112	C8H16	001632-16-2	47

****

Peak Number 14 3,3-Dimethyl-2-pentanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	53.43 ppbv	21690400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56
2	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	53
3	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	50
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	50
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	50

****

Peak Number 15 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	63.75 ppbv	25879100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	87
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	62
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	43

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	38.23 ppbv	15519900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	52
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
5	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	50

****

Peak Number 17 Hexane, 2,2,4-trimethyl- $$ 2, Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	15.80 ppbv	6412260	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	50.35 ppbv	20438900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

Data File : C:\HPCHEM\1\DATA\040711\04071130.D Vial: 29
Acq On : 8 Apr 2011 10:49 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	53.09 ppbv	21552000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	83
3	Octane	114	C8H18	000111-65-9	83
4	Undecane, 2,4-dimethyl-	184	C13H28	017312-80-0	64
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	56

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	12.27 ppbv	12590700	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 10:49 am
Data File: C:\HPCHEM\1\DATA\040711\04071130.D
Name: 1103609-027A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Butane, 2-methyl-	7.18	15.7	ppbv	49532400	ISTD01	10.76	39330600	12.5
Pentane, 2-methyl-	8.77	28.3	ppbv	89115600	ISTD01	10.76	39330600	12.5
Pentane, 3-methyl-	9.09	13.9	ppbv	43777600	ISTD01	10.76	39330600	12.5
Pentane, 2,4-dimethy	10.01	11.8	ppbv	37038500	ISTD01	10.76	39330600	12.5
Cyclopentane, methyl	10.21	17.1	ppbv	53729600	ISTD01	10.76	39330600	12.5
Hexane, 2-methyl-	10.81	12.5	ppbv	39330600	ISTD01	10.76	39330600	12.5
Pentane, 2,3-dimethy	10.96	14.2	ppbv	44727100	ISTD01	10.76	39330600	12.5
Hexane, 2,2-dimethyl	11.37	163.1	ppbv	66190500	ISTD02	11.86	5074300	12.5
Hexane, 2,5-dimethyl	12.21	18.3	ppbv	7418620	ISTD02	11.86	5074300	12.5
Hexane, 2,4-dimethyl	12.29	53.5	ppbv	21716000	ISTD02	11.86	5074300	12.5
Cyclohexane, methyl-	12.40	171.9	ppbv	69796000	ISTD02	11.86	5074300	12.5
Cyclopentane, ethyl-	12.58	18.0	ppbv	7324610	ISTD02	11.86	5074300	12.5
Cyclopentane, 1,2,4-	12.62	15.3	ppbv	6224000	ISTD02	11.86	5074300	12.5
3,3-Dimethyl-2-penta	12.80	53.4	ppbv	21690400	ISTD02	11.86	5074300	12.5
Hexane, 2,5-dimethyl	12.95	63.8	ppbv	25879100	ISTD02	11.86	5074300	12.5
Heptane, 3-methyl-	13.15	38.2	ppbv	15519900	ISTD02	11.86	5074300	12.5
Hexane, 2,2,4-trimet	13.35	15.8	ppbv	6412260	ISTD02	11.86	5074300	12.5
Cyclohexane, 1,3-dim	13.58	50.3	ppbv	20438900	ISTD02	11.86	5074300	12.5
Octane	13.68	53.1	ppbv	21552000	ISTD02	11.86	5074300	12.5
Cyclohexane, ethyl-	14.83	12.3	ppbv	12590700	ISTD03	15.72	12828200	12.5

04071130.D 040711V1.M Thu Apr 14 16:05:05 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 14:01 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

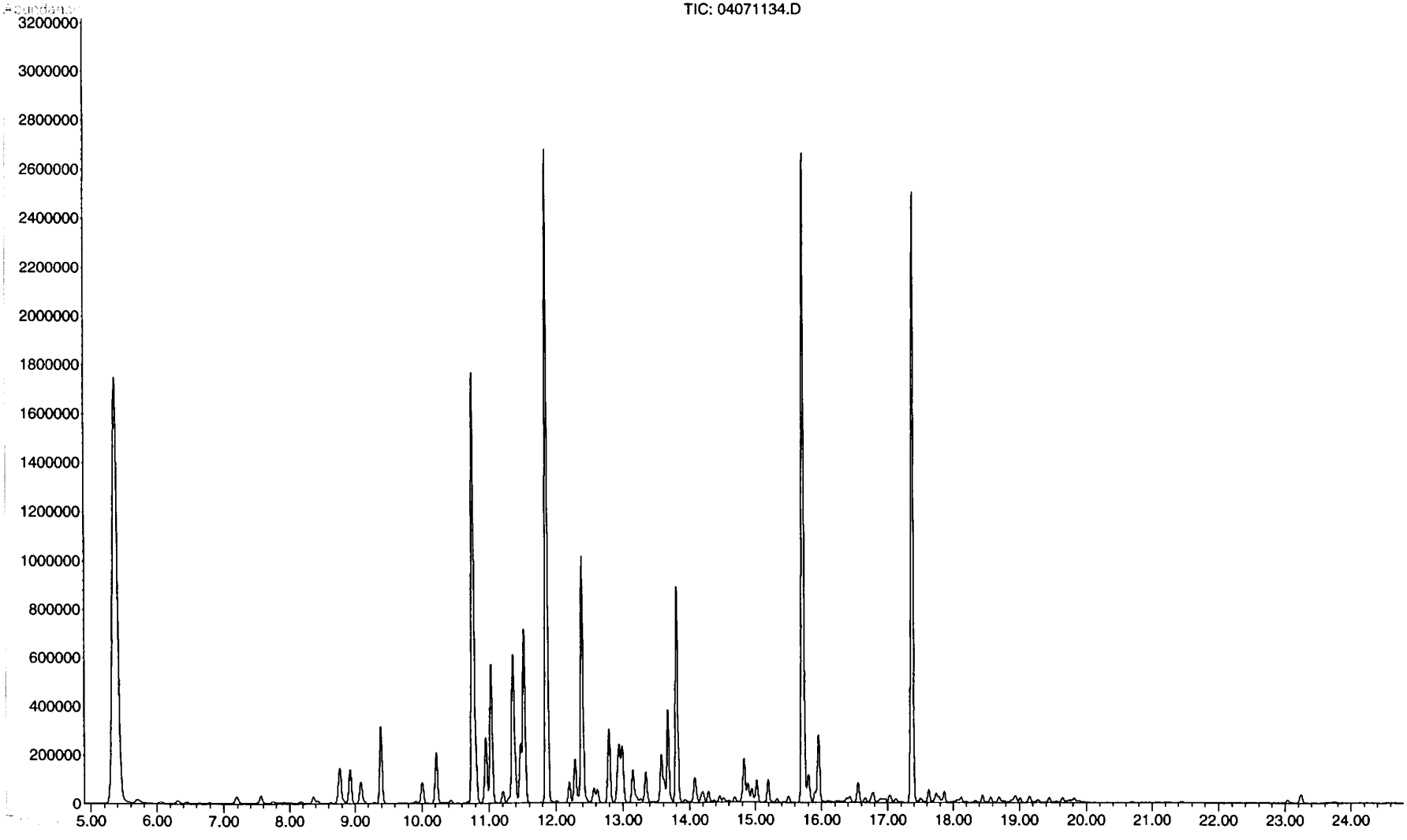
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	815147	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2767769	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1931100	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1175110	12.12	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.96%				
Target Compounds							Qvalue
17) Methylene chloride	8.92	49	114214	1.38	ppbv		92
20) n-Hexane	9.39	57	197992	1.73	ppbv		96
29) Cyclohexane	11.03	56	264337	2.30	ppbv	#	75
34) Heptane	11.52	43	326232	2.59	ppbv	#	93
41) Toluene	13.80	91	844243	4.41	ppbv		98
51) m,p-Xylene	15.95	91	210509	1.37	ppbv		93

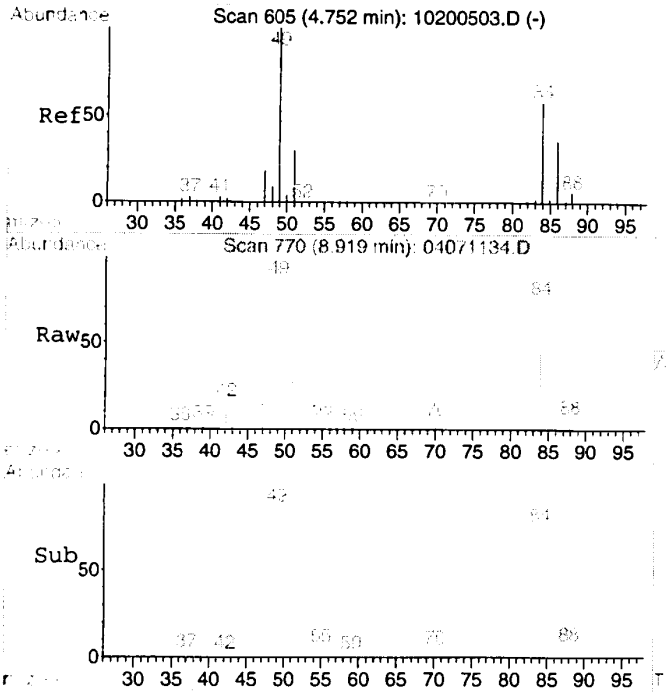
(#) = qualifier out of range (m) = manual integration
04071134.D 040711V1.M Thu Apr 14 16:05:12 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 14:01 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

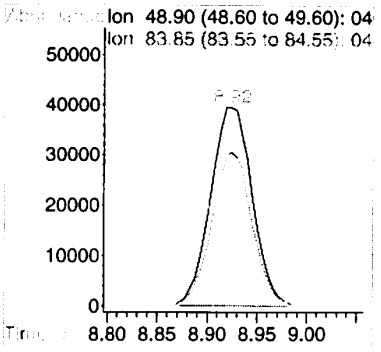


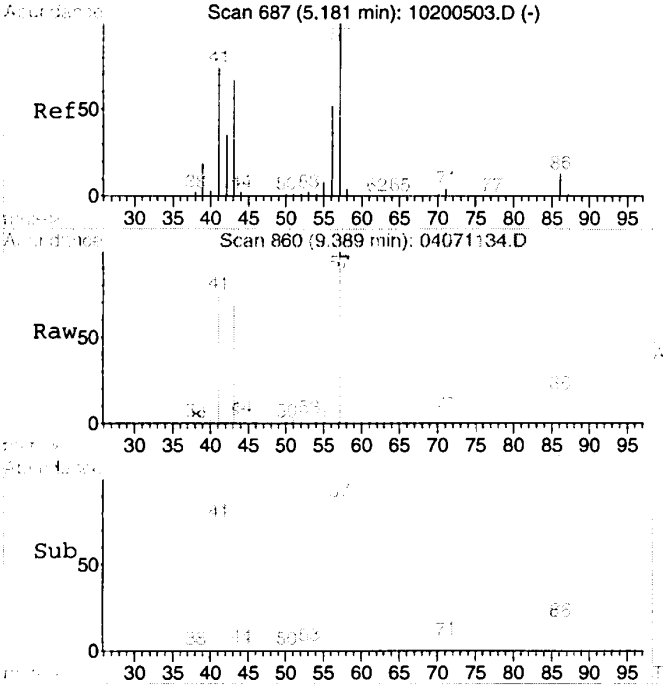


#17
Methylene chloride
Concen: 1.38 ppbv
RT: 8.92 min Scan# 770
Delta R.T. -0.01 min
Lab File: 04071134.D
Acq: 8 Apr 2011 1:36 pm

Tgt Ion: 49 Resp: 114214

Ion	Ratio	Lower	Upper
49	100		
84	75.0	65.4	98.2
86	47.2	42.3	63.5

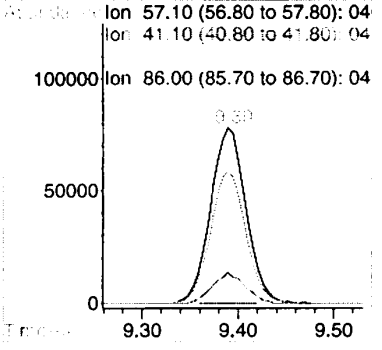


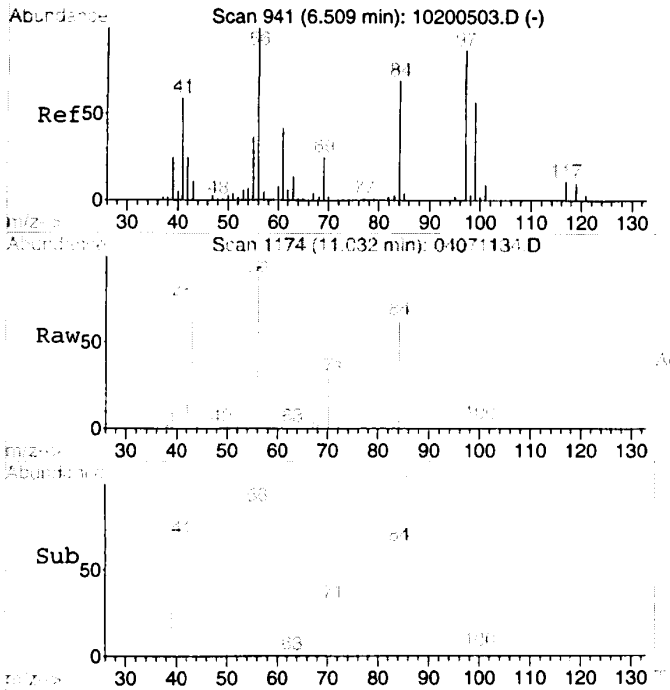


#20
n-Hexane
Concen: 1.73 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04071134.D
Acq: 8 Apr 2011 1:36 pm

Tgt Ion: 57 Resp: 197992

Ion	Ratio	Lower	Upper
57	100		
41	75.4	57.2	85.8
53	2.3	1.8	2.8
86	15.7	13.4	20.0

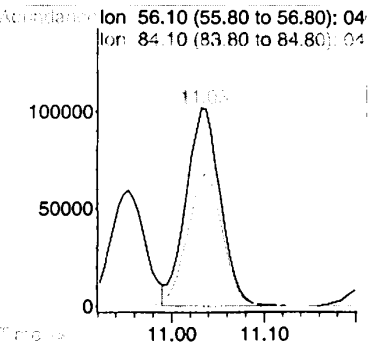


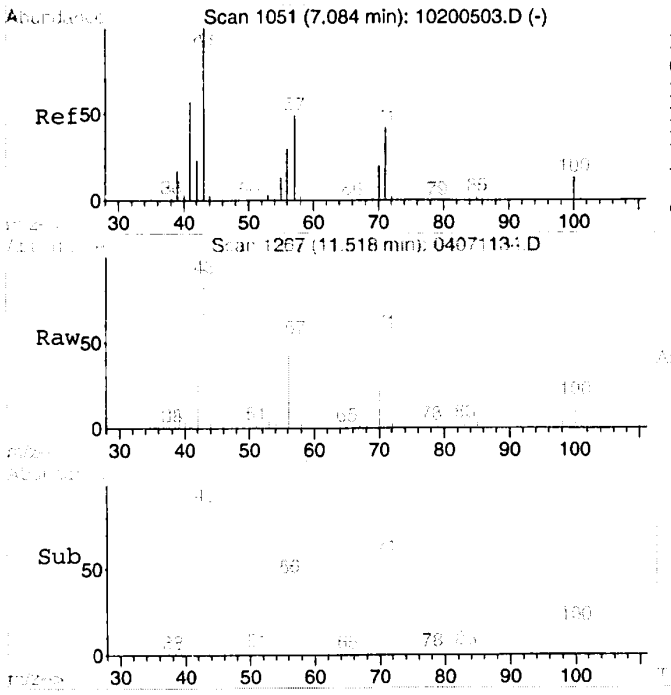


#29
Cyclohexane
Concen: 2.30 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.00 min
Lab File: 04071134.D
Acq: 8 Apr 2011 1:36 pm

Tgt Ion: 56 Resp: 264337

Ion	Ratio	Lower	Upper
56	100		
84	68.2	72.4	108.6#
41	73.6	43.8	65.8#

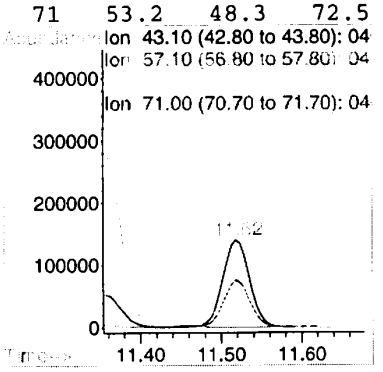


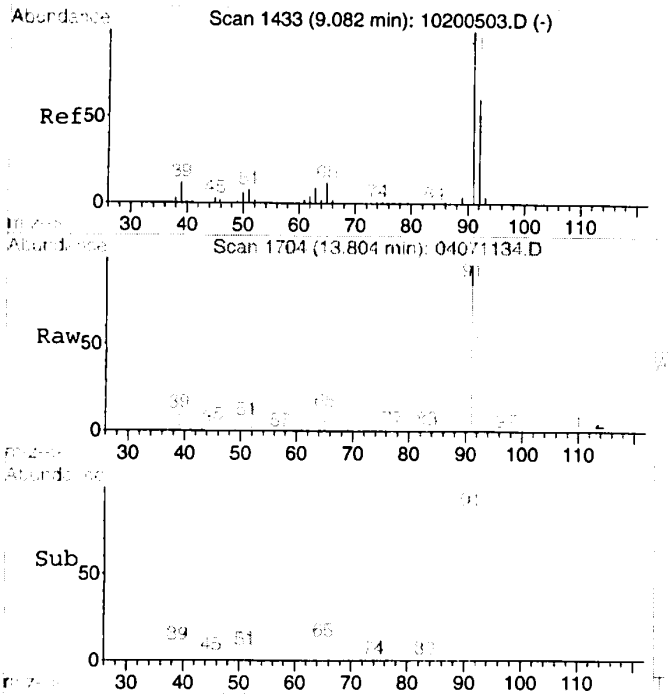


#34
Heptane
Concen: 2.59 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04071134.D
Acq: 8 Apr 2011 1:36 pm

Tgt Ion: 43 Resp: 326232

Ion	Ratio	Lower	Upper
43	100		
57	54.7	42.2	63.4
100	15.3	17.3	25.9#
71	53.2	48.3	72.5

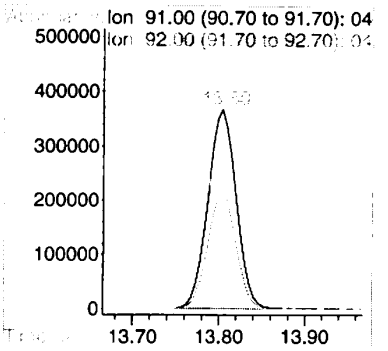


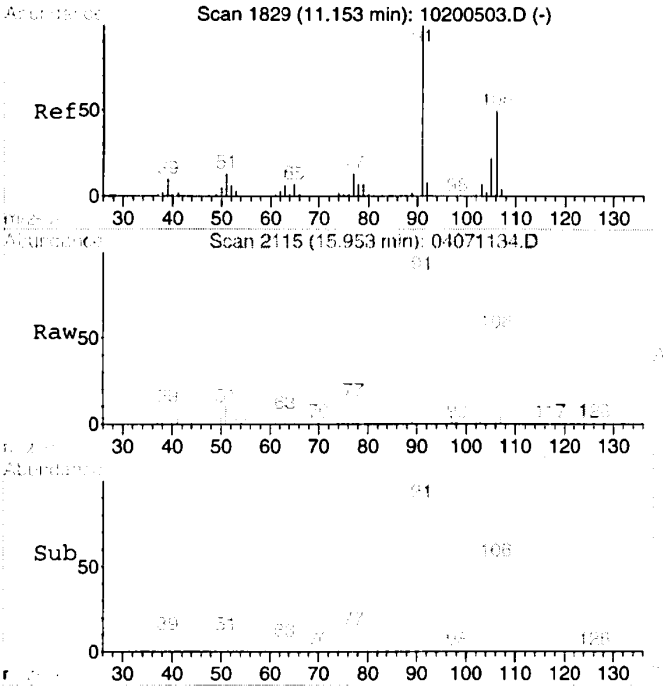


#41
Toluene
Concen: 4.41 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04071134.D
Acq: 8 Apr 2011 1:36 pm

Tgt Ion: 91 Resp: 844243

Ion	Ratio	Lower	Upper
91	100		
92	58.4	40.5	80.5
65	11.3	0.0	31.2

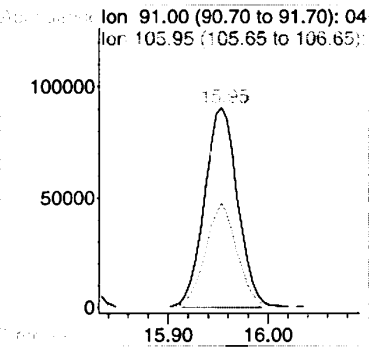




#51
m,p-Xylene
Concen: 1.37 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04071134.D
Acq: 8 Apr 2011 1:36 pm

Tgt Ion: 91 Resp: 210509

Ion	Ratio	Lower	Upper
91	100		
106	49.9	35.6	75.6
51	10.3	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071134.D
Acq On : 8 Apr 2011 1:36 pm
Sample : 1103609-023A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 33
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 4000.00

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.367	62	91	133	rBV	1749284	9518356	100.00%	17.379%
2	7.193	428	440	452	rVB2	30112	99720	1.05%	0.182%
3	7.564	499	511	524	rVB3	33724	105019	1.10%	0.192%
4	8.767	725	741	760	rBV2	146832	486757	5.11%	0.889%
5	8.924	760	771	784	rVB3	140710	396365	4.16%	0.724%
6	9.091	790	803	819	rBV3	91610	277982	2.92%	0.508%
7	9.389	849	860	874	rBV	318091	789456	8.29%	1.441%
8	10.001	967	977	992	rVB2	88062	235508	2.47%	0.430%
9	10.216	1007	1018	1033	rBV2	210866	554383	5.82%	1.012%
10	10.765	1111	1123	1145	rVB	1767267	4811960	50.55%	8.786%
11	10.953	1148	1159	1166	rVV2	270051	700764	7.36%	1.279%
12	11.032	1166	1174	1188	rVB2	572140	1487827	15.63%	2.717%
13	11.209	1198	1208	1217	rBV3	49861	131119	1.38%	0.239%
14	11.356	1226	1236	1249	rVV	612921	1867817	19.62%	3.410%
15	11.471	1249	1258	1261	rVV3	244887	581068	6.10%	1.061%
16	11.523	1261	1268	1282	rVB2	717915	1798547	18.90%	3.284%
17	11.863	1321	1333	1353	rBV	2681193	6195206	65.09%	11.312%
18	12.198	1388	1397	1404	rBV2	87640	200462	2.11%	0.366%
19	12.282	1404	1413	1421	rVV2	180368	464259	4.88%	0.848%
20	12.391	1424	1434	1458	rVV	1019289	2586849	27.18%	4.723%
21	12.569	1458	1468	1473	rVV4	61490	161407	1.70%	0.295%
22	12.616	1474	1477	1488	rVB2	56186	123122	1.29%	0.225%
23	12.794	1499	1511	1526	rBV	305585	781343	8.21%	1.427%
24	12.941	1526	1539	1544	rBV3	241946	750289	7.88%	1.370%
25	13.145	1566	1578	1596	rBV	137454	425073	4.47%	0.776%
26	13.343	1607	1616	1630	rVB2	128046	324240	3.41%	0.592%
27	13.573	1650	1660	1665	rBV2	194766	491079	5.16%	0.897%
28	13.668	1672	1678	1693	rVB	379860	849259	8.92%	1.551%
29	13.804	1693	1704	1721	rVB	891445	2176555	22.87%	3.974%
30	14.081	1740	1757	1768	rBV5	103895	317713	3.34%	0.580%
31	14.196	1768	1779	1788	rVB7	44624	136927	1.44%	0.250%
32	14.285	1788	1796	1805	rBV2	45513	103562	1.09%	0.189%
33	14.829	1887	1900	1906	rVV	180807	483662	5.08%	0.883%
34	14.886	1906	1911	1917	rVV2	80145	197028	2.07%	0.360%
35	14.944	1917	1922	1929	rVV2	59702	147140	1.55%	0.269%
36	15.017	1929	1936	1947	rVB	93492	235421	2.47%	0.430%
37	15.190	1956	1969	1985	rBV3	96652	240109	2.52%	0.438%
38	15.718	2057	2070	2081	rBV	2665997	6171043	64.83%	11.267%
39	15.802	2081	2086	2098	rVV	114275	292444	3.07%	0.534%
40	15.953	2107	2115	2126	rVB	275159	671042	7.05%	1.225%
41	16.549	2219	2229	2240	rBB	84842	214442	2.25%	0.392%
42	16.780	2259	2273	2282	rBV5	41728	128159	1.35%	0.234%
43	17.371	2372	2386	2403	rBV	2507601	5716822	60.06%	10.438%

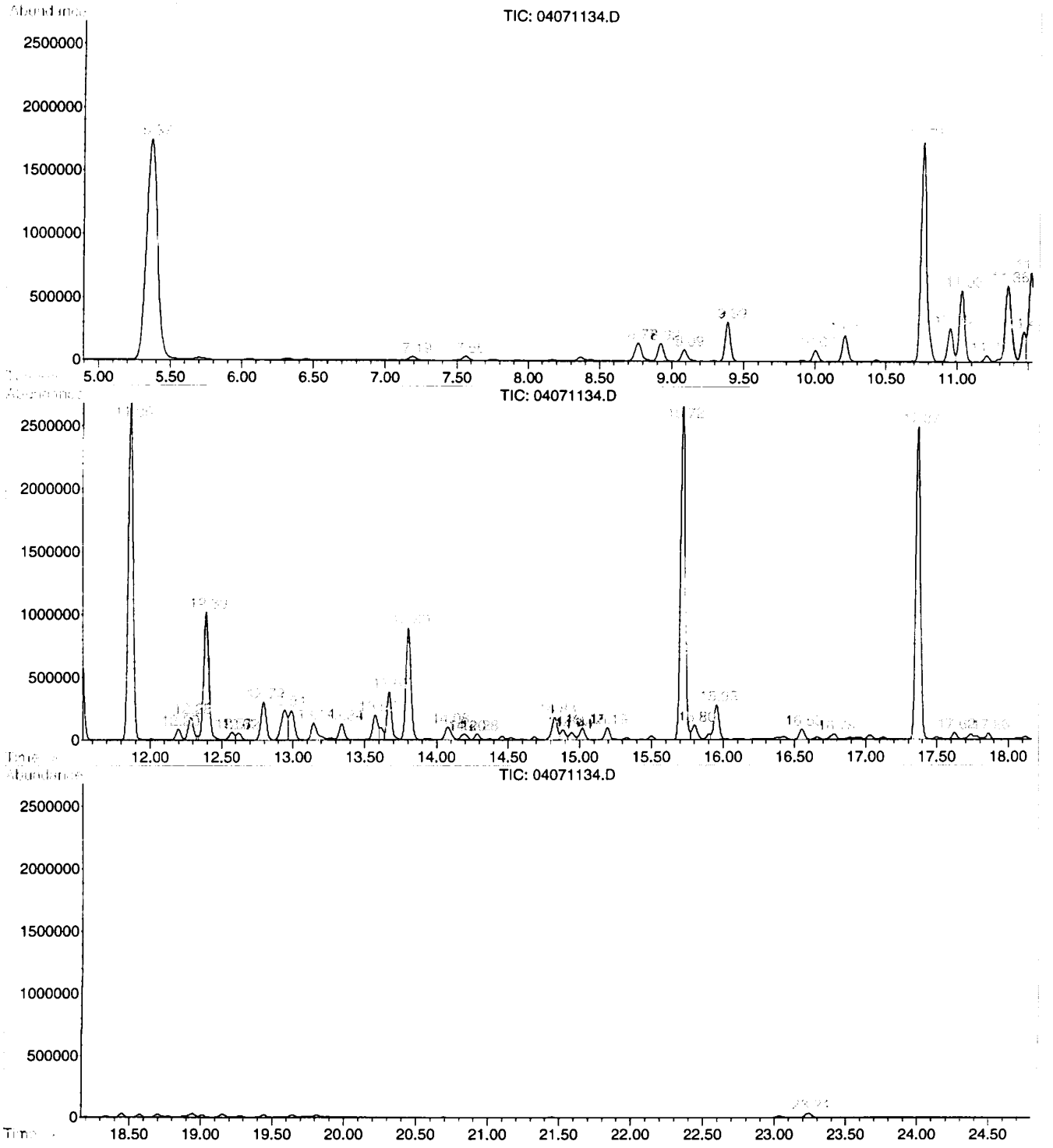
44	17.622	2425	2434	2443	rBV2	53553	117301	1.23%	0.214%
45	17.862	2470	2480	2488	rVB2	48592	116118	1.22%	0.212%
46	23.239	3497	3508	3520	rVB5	35826	108309	1.14%	0.198%

Sum of corrected areas: 54769033

04071134.D 040711V1.M Thu Apr 14 16:05:17 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071134.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 1:36 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-023A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 33
Quant File :040711V1.RES (RTE Integrator)



04071134.D 040711V1.M Thu Apr 14 16:05:17 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	24.73 ppbv	9518360	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	2-Heptanamine, 5-methyl-	129	C8H19N	053907-81-6	3
5	Octodrine $$ 2-Heptanamine, 6-methy	129	C8H19N	000543-82-8	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	1.26 ppbv	486757	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	90
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	70

****

Peak Number 3 Pentane, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	0.72 ppbv	277982	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	43
5	Pentane, 2,2,3-trimethyl- $$ 2,2,3-	114	C8H18	000564-02-3	40

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	0.61 ppbv	235508	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	83
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	56
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50

****

Peak Number 5 Cyclopentane, methyl- $$ Methy Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	1.44 ppbv	554383	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	86
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	56

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	1.82 ppbv	700764	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	68

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Hexane, 2,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	3.77 ppbv	1867820	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
3	Pentane, 2,2,4-trimethyl- $$ Isobut	114	C8H18	000540-84-1	78
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	74
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	72

****

Peak Number 8 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	0.94 ppbv	464259	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	50
2	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
3	1-Octanol, 3,7-dimethyl-	158	C10H22O	000106-21-8	43
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	40
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	38

****

Peak Number 9 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	5.22 ppbv	2586850	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	1.58 ppbv	781343	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	72
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56
5	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	56

****

Peak Number 11 Heptane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	1.51 ppbv	750289	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	58
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	50

****

Peak Number 12 Heptane, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	0.86 ppbv	425073	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	72
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	53
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Hexane, 3-ethyl- $$ 3-Ethylhexane	114	C8H18	000619-99-8	43

Data File : C:\HPCHEM\1\DATA\040711\04071134.D
Acq On : 8 Apr 2011 1:36 pm
Sample : 1103609-023A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 33
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 4000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Hexane, 2,2,5-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	0.65 ppbv	324240	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	72
4	Heptane, 2,2-dimethyl- $$ 2,2-Dimet	128	C9H20	001071-26-7	64
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64

****

Peak Number 14 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.99 ppbv	491079	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	95
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	90

****

Peak Number 15 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.71 ppbv	849259	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	56

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	0.64 ppbv	317713	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	97
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	95
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	83

****

Peak Number 17 Cyclohexane, ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.98 ppbv	483662	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94

****

Peak Number 18 Decane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	0.48 ppbv	235421	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	56
2	Octane, 4-methyl-	128	C9H20	002216-34-4	52
3	Octadecane, 1-chloro-	288	C18H37Cl	003386-33-2	50
4	Octane, 4-methyl- $$ 4-Methyloctane	128	C9H20	002216-34-4	50
5	Hydroxylamine, O-decyl- $$ O-Decylh	173	C10H23NO	029812-79-1	45

Data File : C:\HPCHEM\1\DATA\040711\04071134.D Vial: 33
Acq On : 8 Apr 2011 1:36 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 1-Hexene, 2,5,5-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	0.49 ppbv	240109	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 2,5,5-trimethyl-	126	C9H18	062185-56-2	37
2	Heptane, 3-ethyl-2-methyl- $$ 2-Met	142	C10H22	014676-29-0	25
3	Octane, 3-methyl- $$ 3-Methyloctane	128	C9H20	002216-33-3	23
4	Tridecane, 6-methyl- $$ 6-Methyltri	198	C14H30	013287-21-3	23
5	Octane, 3-methyl-	128	C9H20	002216-33-3	23

****

Peak Number 20 Ethylbenzene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	0.59 ppbv	292444	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethylbenzene	106	C8H10	000100-41-4	87
2	Ethylbenzene	106	C8H10	000100-41-4	86
3	p-Xylene	106	C8H10	000106-42-3	72
4	Benzene, 1,2-dimethyl- $$ o-Dimethy	106	C8H10	000095-47-6	72
5	p-Xylene	106	C8H10	000106-42-3	64

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 1:36 pm
Data File: C:\HPCHEM\1\DATA\040711\04071134.D
Name: 1103609-023A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.37	24.7	ppbv	9518360	ISTD01	10.76	4811960	12.5
Pentane, 2-methyl-	8.77	1.3	ppbv	486757	ISTD01	10.76	4811960	12.5
Pentane, 3-methyl-	9.09	0.7	ppbv	277982	ISTD01	10.76	4811960	12.5
Pentane, 2,4-dimethy	10.00	0.6	ppbv	235508	ISTD01	10.76	4811960	12.5
Cyclopentane, methyl	10.22	1.4	ppbv	554383	ISTD01	10.76	4811960	12.5
Pentane, 2,3-dimethy	10.95	1.8	ppbv	700764	ISTD01	10.76	4811960	12.5
Hexane, 2,2-dimethyl	11.36	3.8	ppbv	1867820	ISTD02	11.86	6195210	12.5
Hexane, 2,4-dimethyl	12.28	0.9	ppbv	464259	ISTD02	11.86	6195210	12.5
Cyclohexane, methyl-	12.39	5.2	ppbv	2586850	ISTD02	11.86	6195210	12.5
Pentane, 2,3,4-trime	12.79	1.6	ppbv	781343	ISTD02	11.86	6195210	12.5
Heptane, 2-methyl-	12.94	1.5	ppbv	750289	ISTD02	11.86	6195210	12.5
Heptane, 3-methyl-	13.14	0.9	ppbv	425073	ISTD02	11.86	6195210	12.5
Hexane, 2,2,5-trimet	13.34	0.7	ppbv	324240	ISTD02	11.86	6195210	12.5
Cyclohexane, 1,3-dim	13.57	1.0	ppbv	491079	ISTD02	11.86	6195210	12.5
Octane	13.67	1.7	ppbv	849259	ISTD02	11.86	6195210	12.5
Cyclohexane, 1,2-dim	14.08	0.6	ppbv	317713	ISTD03	15.72	6171040	12.5
Cyclohexane, ethyl-	14.83	1.0	ppbv	483662	ISTD03	15.72	6171040	12.5
Decane	15.02	0.5	ppbv	235421	ISTD03	15.72	6171040	12.5
1-Hexene, 2,5,5-trim	15.19	0.5	ppbv	240109	ISTD03	15.72	6171040	12.5
Ethylbenzene	15.80	0.6	ppbv	292444	ISTD03	15.72	6171040	12.5

04071134.D 040711V1.M Thu Apr 14 16:05:18 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 8 15:36 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

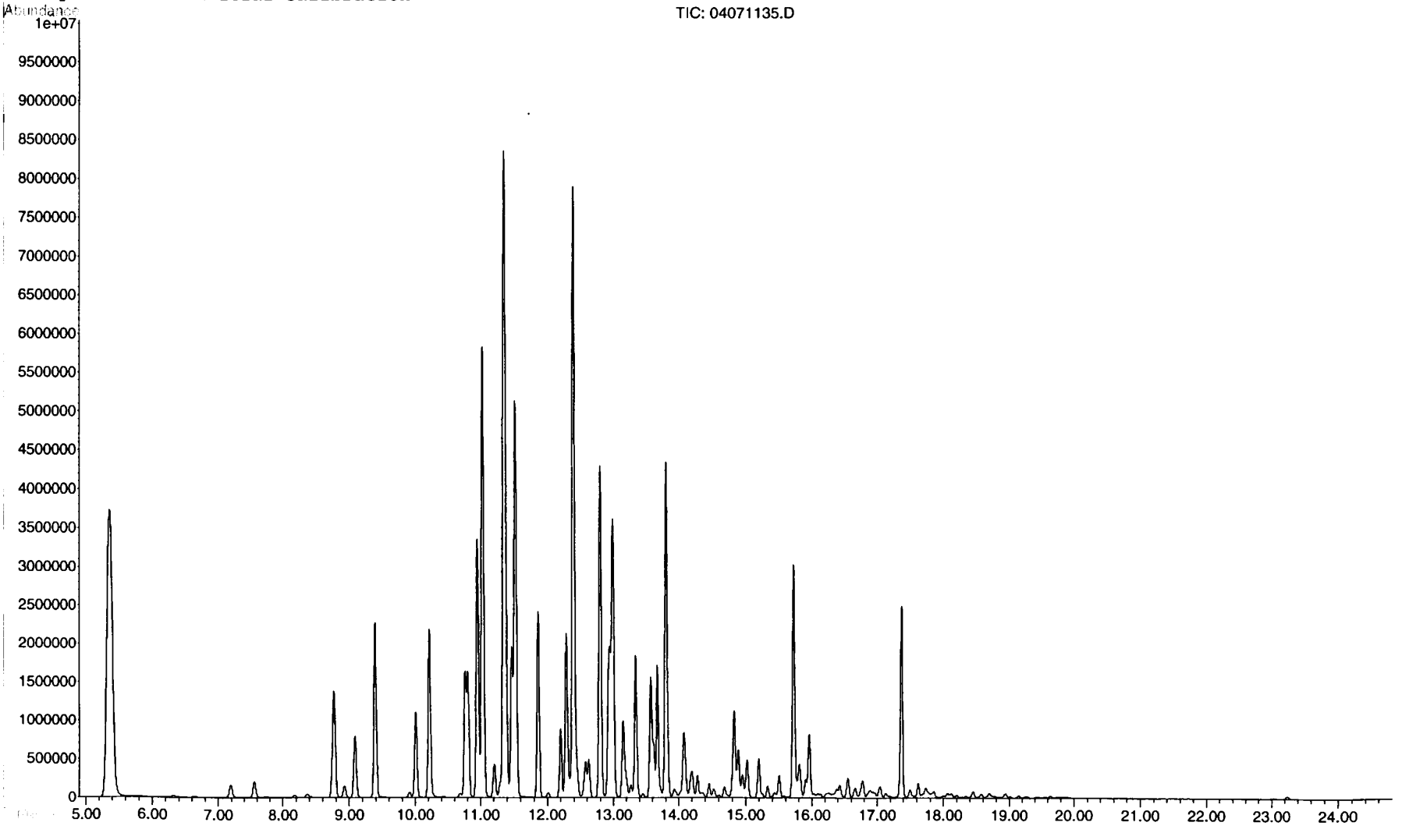
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	743368	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2486955	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1833941	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1140084	12.38	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.04%				
Target Compounds							Qvalue
11) Ethanol	7.75	45	14345	1.15	ppbv	#	78
14) Acetone	8.37	43	104480	1.23	ppbv	#	95
20) n-Hexane	9.39	57	1445137	13.81	ppbv		97
29) Cyclohexane	11.03	56	2766489	26.38	ppbv	#	81
31) Benzene	11.47	78	1348729	8.08	ppbv		93
34) Heptane	11.52	43	2173083	19.17	ppbv	#	93
41) Toluene	13.81	91	3844623	22.36	ppbv		99
50) Ethylbenzene	15.80	91	317624	1.66	ppbv		94
51) m,p-Xylene	15.95	91	577631	3.95	ppbv		93
52) o-Xylene	16.55	91	188143	1.28	ppbv	#	88

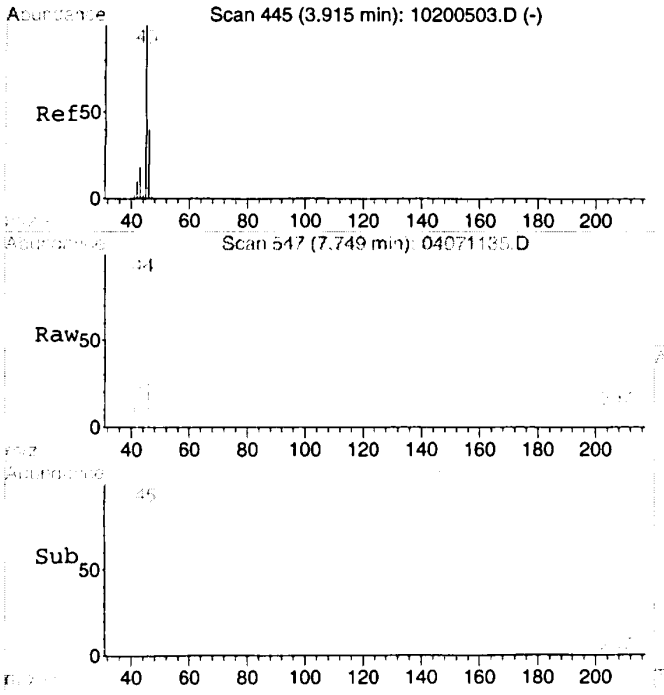
(#) = qualifier out of range (m) = manual integration
04071135.D 040711V1.M Thu Apr 14 16:05:23 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 8 15:36 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

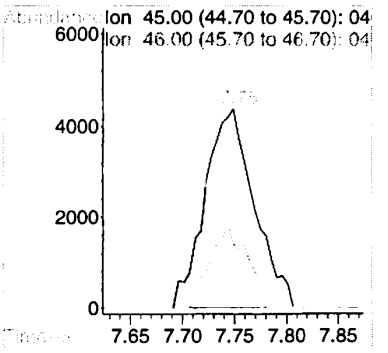


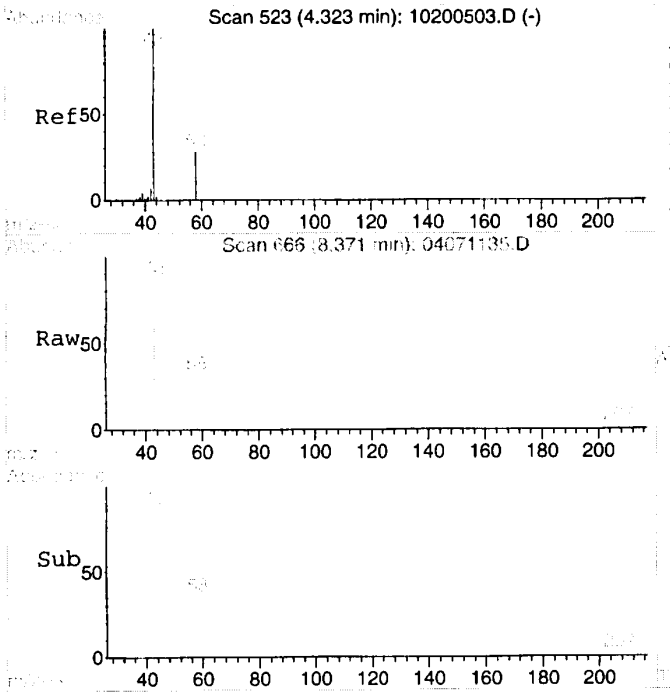


#11
Ethanol
Concen: 1.15 ppbv
RT: 7.75 min Scan# 547
Delta R.T. 0.02 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 45 Resp: 14345

Ion	Ratio	Lower	Upper
45	100		
46	31.4	30.2	45.4
43	0.0	15.8	23.6#

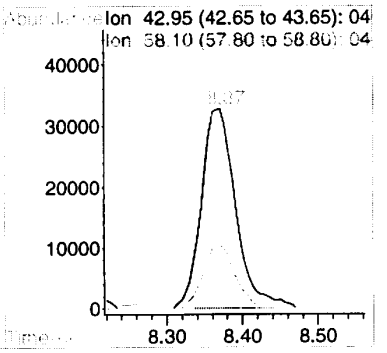


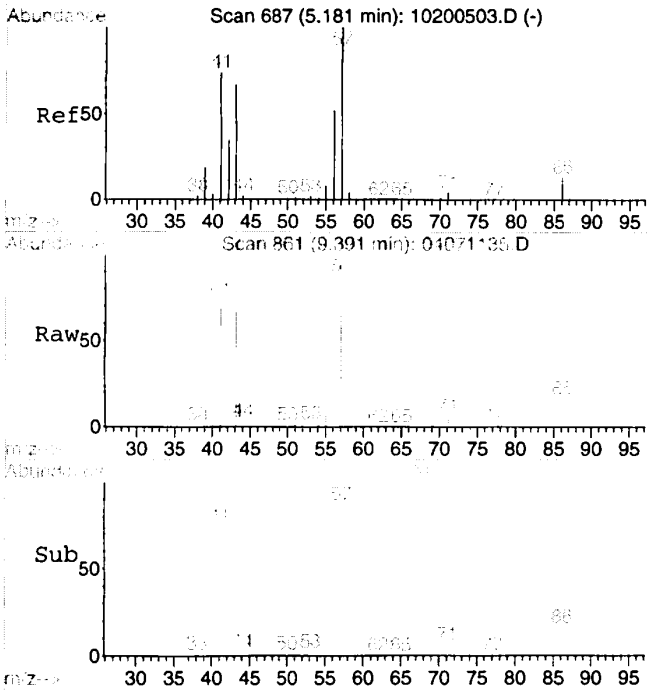


#14
Acetone
Concen: 1.23 ppbv
RT: 8.37 min Scan# 666
Delta R.T. 0.01 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 43 Resp: 104480

Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.0	33.0
39	3.8	6.5	9.7#

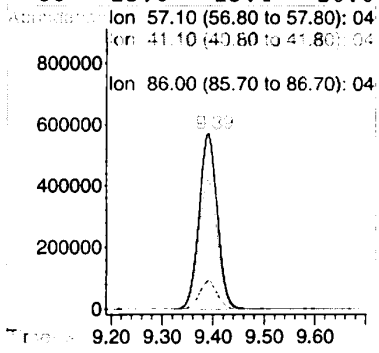


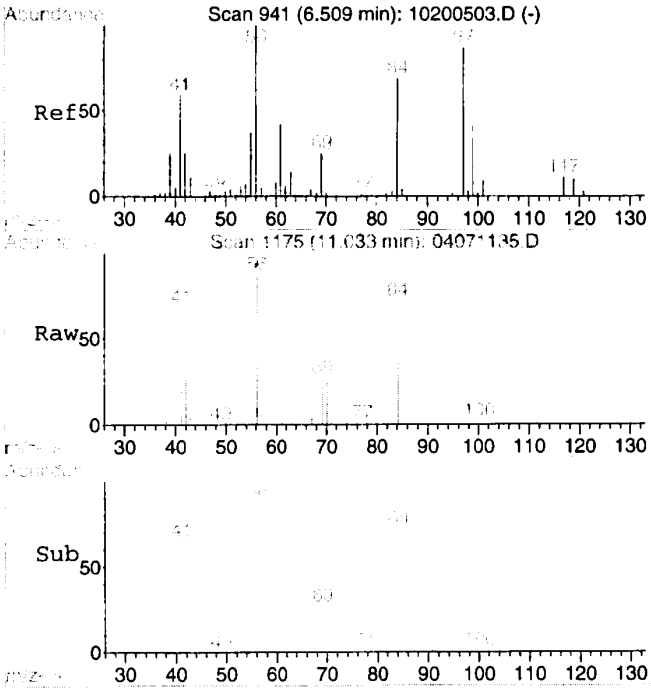


#20
n-Hexane
Concen: 13.81 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 57 Resp: 1445137

Ion	Ratio	Lower	Upper
57	100		
41	74.5	57.2	85.8
53	2.4	1.8	2.8
86	15.6	13.4	20.0

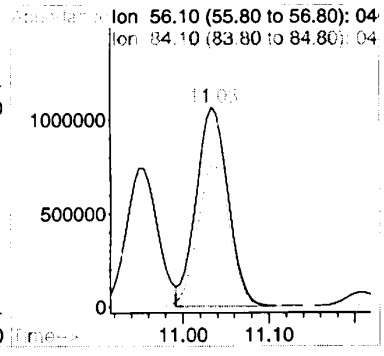


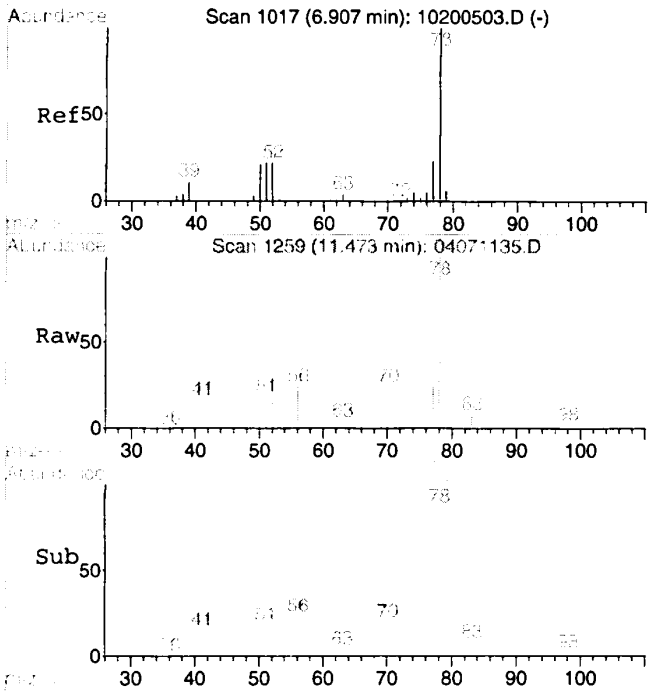


#29
Cyclohexane
Concen: 26.38 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 56 Resp: 2766489

Ion	Ratio	Lower	Upper
56	100		
84	71.7	72.4	108.6#
41	67.9	43.8	65.8#

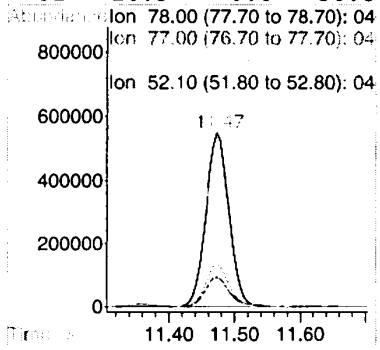


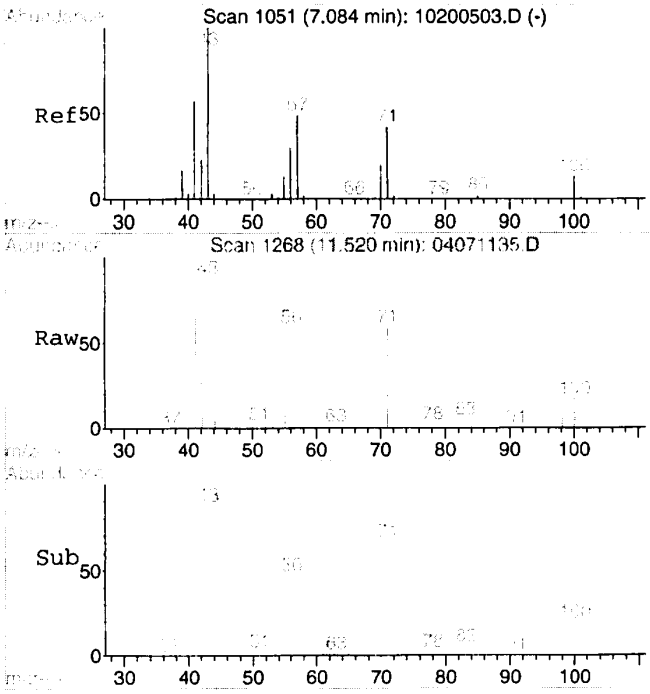


#31
Benzene
Concen: 8.08 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 78 Resp: 1348729

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	21.7	0.0	36.1
52	18.3	0.0	36.0

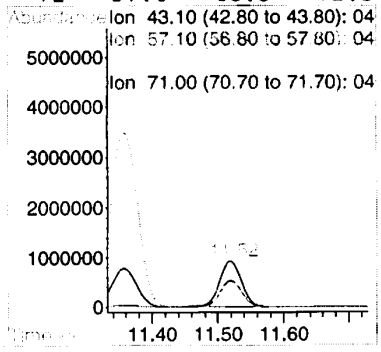


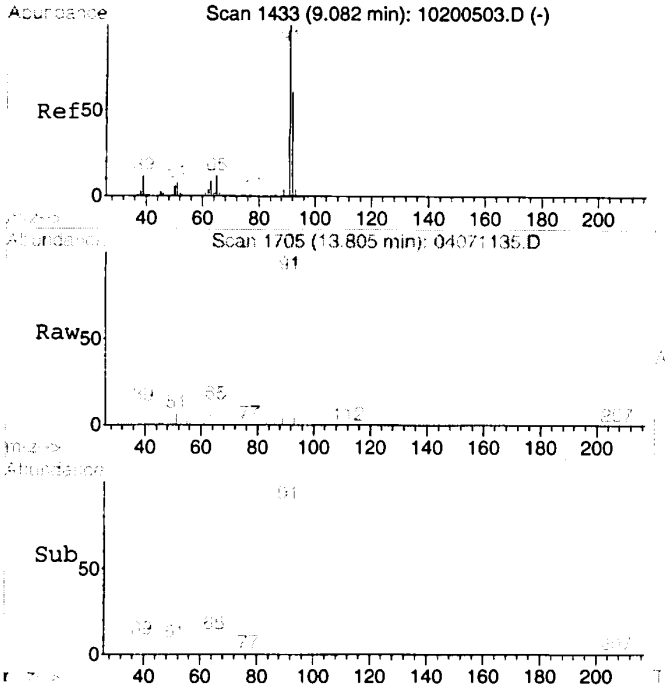


#34
Heptane
Concen: 19.17 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 43 Resp: 2173083

Ion	Ratio	Lower	Upper
43	100		
57	58.8	42.2	63.4
100	15.6	17.3	25.9#
71	57.0	48.3	72.5

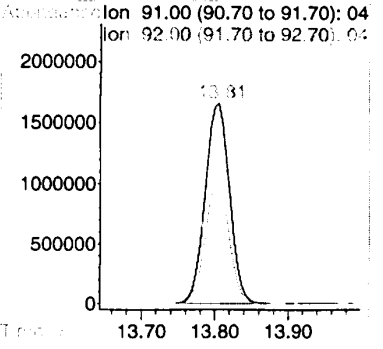


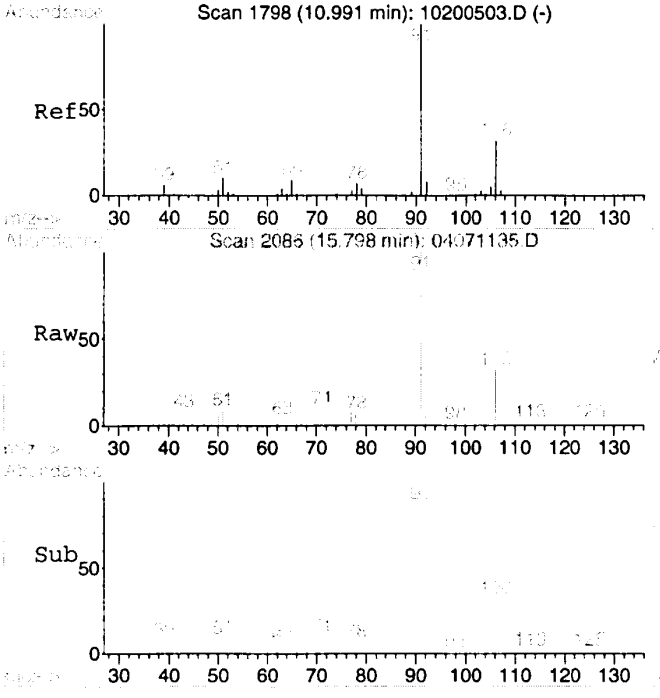


#41
Toluene
Concen: 22.36 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 91 Resp: 3844623

Ion	Ratio	Lower	Upper
91	100		
92	61.2	40.5	80.5
65	11.8	0.0	31.2

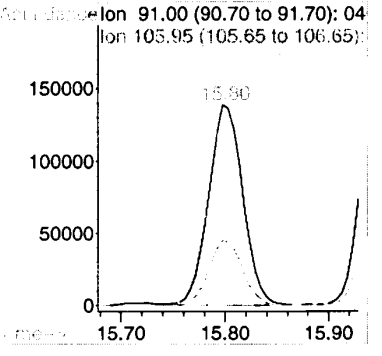


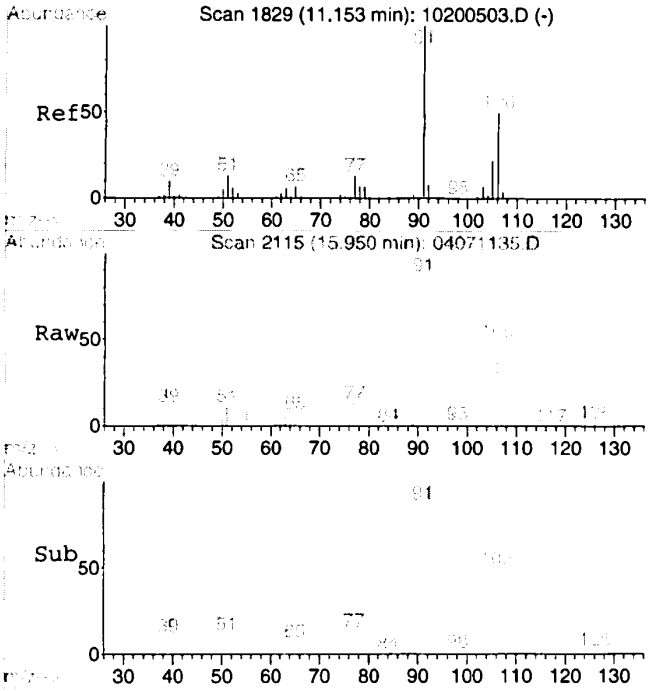


#50
Ethylbenzene
Concen: 1.66 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 91 Resp: 317624

Ion	Ratio	Lower	Upper
91	100		
106	31.8	14.9	54.9
51	10.5	0.0	33.1

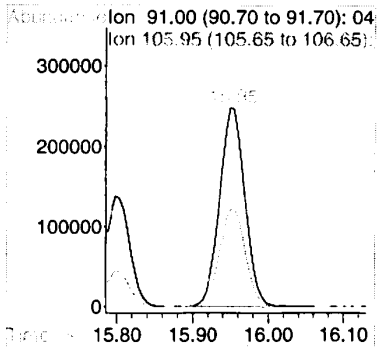


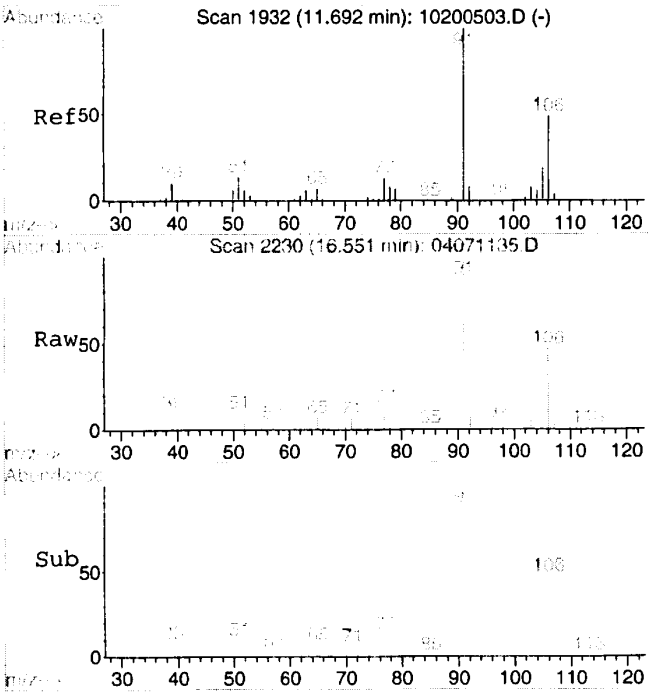


#51
m,p-Xylene
Concen: 3.95 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 91 Resp: 577631

Ion	Ratio	Lower	Upper
91	100		
106	49.7	35.6	75.6
51	10.8	0.0	29.6

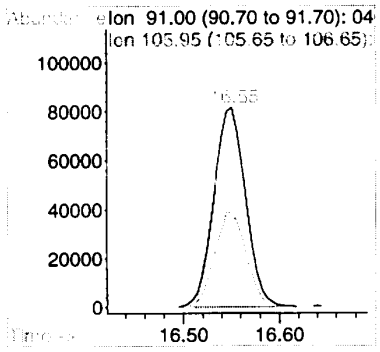




#52
o-Xylene
Concen: 1.28 ppbv
RT: 16.55 min Scan# 2230
Delta R.T. 0.00 min
Lab File: 04071135.D
Acq: 8 Apr 2011 2:17 pm

Tgt Ion: 91 Resp: 188143

Ion	Ratio	Lower	Upper
91	100		
106	47.2	41.0	61.6
51	11.4	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.359	61	90	142	rBV	3729926	22252540	86.89%	9.176%
2	7.194	426	441	454	rBV3	163299	551027	2.15%	0.227%
3	7.560	491	511	525	rBV2	211858	664963	2.60%	0.274%
4	8.769	724	742	761	rBV2	1384974	4330444	16.91%	1.786%
5	8.931	761	773	787	rVB2	156311	459022	1.79%	0.189%
6	9.088	789	803	822	rBV	799389	2222228	8.68%	0.916%
7	9.391	847	861	884	rBV	2275589	5726519	22.36%	2.361%
8	10.003	967	978	996	rVB	1116401	2937367	11.47%	1.211%
9	10.212	1005	1018	1043	rBV	2196295	5849064	22.84%	2.412%
10	10.766	1113	1124	1127	rBV	1611445	3871358	15.12%	1.596%
11	10.950	1146	1159	1167	rBV	3357191	8743108	34.14%	3.605%
12	11.033	1167	1175	1196	rVV	5836459	15023195	58.66%	6.195%
13	11.206	1197	1208	1217	rVV2	428482	1153980	4.51%	0.476%
14	11.357	1217	1237	1250	rVV	8367237	25609704	100.00%	10.560%
15	11.467	1250	1258	1262	rVV2	1955503	4741076	18.51%	1.955%
16	11.520	1262	1268	1297	rVB2	5138845	12994214	50.74%	5.358%
17	11.860	1321	1333	1352	rBV	2422147	5619878	21.94%	2.317%
18	12.200	1386	1398	1405	rBV	894571	2110760	8.24%	0.870%
19	12.283	1405	1414	1424	rVV	2138964	5545781	21.65%	2.287%
20	12.393	1424	1435	1456	rVV	7917893	21194722	82.76%	8.740%
21	12.571	1456	1469	1474	rVV3	468142	1353403	5.28%	0.558%
22	12.623	1474	1479	1492	rVB	497867	1169017	4.56%	0.482%
23	12.796	1498	1512	1525	rBV	4311641	10905310	42.58%	4.497%
24	12.937	1525	1539	1542	rVV3	1963239	5473430	21.37%	2.257%
25	12.989	1543	1549	1567	rVB	3610558	9731926	38.00%	4.013%
26	13.146	1568	1579	1596	rBV2	989357	3231870	12.62%	1.333%
27	13.266	1596	1602	1607	rVV2	153905	364667	1.42%	0.150%
28	13.340	1607	1616	1631	rVB	1833569	4496443	17.56%	1.854%
29	13.570	1646	1660	1673	rBV2	1561420	5316359	20.76%	2.192%
30	13.669	1673	1679	1693	rVV	1688716	3828519	14.95%	1.579%
31	13.805	1693	1705	1721	rVB	4343745	10910938	42.60%	4.499%
32	13.931	1721	1729	1740	rBV4	100826	305991	1.19%	0.126%
33	14.077	1741	1757	1770	rBV2	821104	2574245	10.05%	1.061%
34	14.197	1770	1780	1790	rVB4	299283	913992	3.57%	0.377%
35	14.286	1790	1797	1805	rBV	248106	510524	1.99%	0.211%
36	14.459	1821	1830	1836	rBV	181808	406789	1.59%	0.168%
37	14.527	1836	1843	1852	rVB4	109690	269875	1.05%	0.111%
38	14.684	1865	1873	1887	rBV3	140611	373819	1.46%	0.154%
39	14.825	1887	1900	1907	rVV	1119048	3036925	11.86%	1.252%
40	14.883	1907	1911	1919	rVV	598461	1434961	5.60%	0.592%
41	14.945	1919	1923	1929	rVV4	274214	603165	2.36%	0.249%
42	15.019	1929	1937	1954	rVB2	494431	1337327	5.22%	0.551%
43	15.196	1958	1971	1980	rBV	510024	1247628	4.87%	0.514%

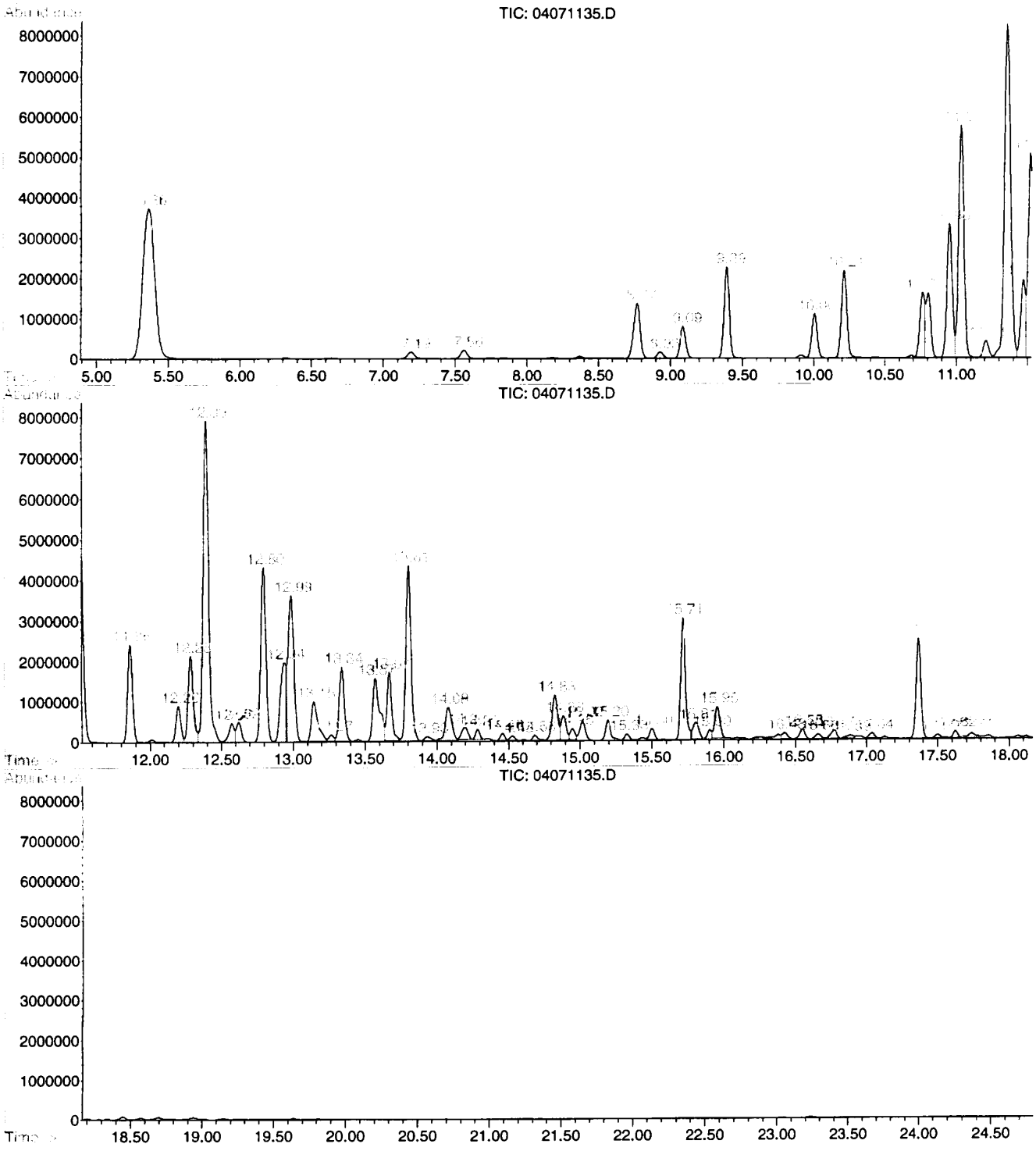
44	15.327	1988	1996	2005	rBV	152360	342048	1.34%	0.141%
45	15.500	2022	2029	2039	rVB	281345	652359	2.55%	0.269%
46	15.714	2057	2070	2081	rBV	3030659	7285180	28.45%	3.004%
47	15.808	2082	2088	2098	rVV2	414150	1142698	4.46%	0.471%
48	15.902	2098	2106	2109	rVV	215869	449226	1.75%	0.185%
49	15.955	2109	2116	2127	rVB	784264	1965571	7.68%	0.811%
50	16.425	2201	2206	2217	rVB	152720	369344	1.44%	0.152%
51	16.546	2219	2229	2240	rVB	248494	640323	2.50%	0.264%
52	16.656	2240	2250	2259	rBV3	124807	341204	1.33%	0.141%
53	16.771	2261	2272	2281	rVB4	207491	615981	2.41%	0.254%
54	16.886	2281	2294	2300	rBV9	82595	283292	1.11%	0.117%
55	17.043	2315	2324	2332	rVB3	132532	349465	1.36%	0.144%
56	17.367	2369	2386	2402	rVB	2493962	5718174	22.33%	2.358%
57	17.503	2403	2412	2421	rBV3	100204	260091	1.02%	0.107%
58	17.623	2426	2435	2442	rBV	177578	365029	1.43%	0.151%
59	17.738	2444	2457	2469	rBV2	103594	333122	1.30%	0.137%

Sum of corrected areas: 242511180

04071135.D 040711V1.M Thu Apr 14 16:05:30 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040711\04071135.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 2:17 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-002A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 34
Quant File :040711V1.RES (RTE Integrator)



04071135.D 040711V1.M Thu Apr 14 16:05:30 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040711\04071135.D
Acq On : 8 Apr 2011 2:17 pm
Sample : 1103609-002A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 34
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide $$ Carbon oxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	71.85 ppbv	22252500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethyne, fluoro- $$ Acetylene, fluor	44	C2HF	002713-09-9	3
5	2-Heptanamine, 5-methyl-	129	C8H19N	053907-81-6	3

****

Peak Number 2 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	13.98 ppbv	4330440	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

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Peak Number 3 Pentane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	7.18 ppbv	2222230	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane, 2,4-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	9.48 ppbv	2937370	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

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Peak Number 5 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	18.89 ppbv	5849060	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	72
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	50
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	28.23 ppbv	8743110	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Cyclopentane, 1,1-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	3.73 ppbv	1153980	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	46
3	1-Heptene, 6-methyl- $$ 6-Methyl-1-	112	C8H16	005026-76-6	40
4	2-Chloro-2,4-dimethylpentane	134	C7H15Cl	035951-33-8	38
5	1-Hexene, 3-methyl- $$ 3-Methyl-1-h	98	C7H14	003404-61-3	38

****

Peak Number 8 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	56.96 ppbv	25609700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72

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Peak Number 9 Hexane, 2,5-dimethyl- $$ Biiso Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	4.69 ppbv	2110760	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	90
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	83
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	74
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64
5	1-Pyrrolidinecarboxaldehyde $$ N-Fo	99	C5H9NO	003760-54-1	47

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Hexane, 2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	12.34 ppbv	5545780	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	72
2	Ether, heptyl hexyl	200	C13H28O	007289-40-9	59
3	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	59
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47

****

Peak Number 11 Cyclohexane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	47.14 ppbv	21194700	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 12 Pentane, 2,3,4-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	24.26 ppbv	10905300	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	90
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	64
5	Propanoic acid, 2-methyl-, 3-methyl	158	C9H18O2	002050-01-3	64

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Heptane, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	12.17 ppbv	5473430	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	64
3	Hexane, 3-ethyl-4-methyl- $$ 3-Ethy	128	C9H20	003074-77-9	59
4	Hexane, 2,3-dimethyl- $$ 2,3-Dimeth	114	C8H18	000584-94-1	59
5	Pyrrolidine	71	C4H9N	000123-75-1	50

****

Peak Number 14 Heptane, 4-methyl- $$ 4-Methyl Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	21.65 ppbv	9731930	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 4-methyl- $$ 4-Methylhepta	114	C8H18	000589-53-7	64
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59
4	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	59
5	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	45

****

Peak Number 15 Heptane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	7.19 ppbv	3231870	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	87
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	72
3	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	59
4	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	59
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	10.00 ppbv	4496440	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83

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Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	11.82 ppbv	5316360	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

****

Peak Number 18 Heptane, 2,4-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	8.52 ppbv	3828520	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
5	Octane	114	C8H18	000111-65-9	81

Data File : C:\HPCHEM\1\DATA\040711\04071135.D Vial: 34
Acq On : 8 Apr 2011 2:17 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	4.42 ppbv	2574250	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	97
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	5.21 ppbv	3036930	Chlorobenzene-d5	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
5	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	94

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 2:17 pm
Data File: C:\HPCHEM\1\DATA\040711\04071135.D
Name: 1103609-002A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide $$ Ca	5.36	71.8	ppbv	22252500	ISTD01	10.76	3871360	12.5
Pentane, 2-methyl-	8.77	14.0	ppbv	4330440	ISTD01	10.76	3871360	12.5
Pentane, 3-methyl-	9.09	7.2	ppbv	2222230	ISTD01	10.76	3871360	12.5
Pentane, 2,4-dimethy	10.00	9.5	ppbv	2937370	ISTD01	10.76	3871360	12.5
Cyclopentane, methyl	10.21	18.9	ppbv	5849060	ISTD01	10.76	3871360	12.5
Pentane, 2,3-dimethy	10.95	28.2	ppbv	8743110	ISTD01	10.76	3871360	12.5
Cyclopentane, 1,1-di	11.21	3.7	ppbv	1153980	ISTD01	10.76	3871360	12.5
Hexane, 2,2-dimethyl	11.36	57.0	ppbv	25609700	ISTD02	11.86	5619880	12.5
Hexane, 2,5-dimethyl	12.20	4.7	ppbv	2110760	ISTD02	11.86	5619880	12.5
Hexane, 2,4-dimethyl	12.28	12.3	ppbv	5545780	ISTD02	11.86	5619880	12.5
Cyclohexane, methyl-	12.39	47.1	ppbv	21194700	ISTD02	11.86	5619880	12.5
Pentane, 2,3,4-trime	12.80	24.3	ppbv	10905300	ISTD02	11.86	5619880	12.5
Heptane, 4-methyl-	12.94	12.2	ppbv	5473430	ISTD02	11.86	5619880	12.5
Heptane, 4-methyl- $	12.99	21.6	ppbv	9731930	ISTD02	11.86	5619880	12.5
Heptane, 3-methyl-	13.15	7.2	ppbv	3231870	ISTD02	11.86	5619880	12.5
Hexane, 2,2,5-trimet	13.34	10.0	ppbv	4496440	ISTD02	11.86	5619880	12.5
Cyclohexane, 1,3-dim	13.57	11.8	ppbv	5316360	ISTD02	11.86	5619880	12.5
Heptane, 2,4-dimethy	13.67	8.5	ppbv	3828520	ISTD02	11.86	5619880	12.5
Cyclohexane, 1,2-dim	14.08	4.4	ppbv	2574250	ISTD03	15.71	7285180	12.5
Cyclohexane, ethyl-	14.83	5.2	ppbv	3036930	ISTD03	15.71	7285180	12.5

04071135.D 040711V1.M Thu Apr 14 16:05:31 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071137.D Vial: 11
Acq On : 8 Apr 2011 3:39 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 16:04 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	709861	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2515033	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1741590	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1053905	12.05	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.40%				
Target Compounds							Qvalue
2) Propylene	5.68	41	67870	1.24	ppbv		99
3) Dichlorodifluoromethane	5.76	85	198914	1.12	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	147303	1.15	ppbv		92
5) Chloromethane	6.17	50	79254	1.23	ppbv		98
6) Vinyl chloride	6.38	62	88281	1.25	ppbv	#	98
7) 1,3-Butadiene	6.43	39	68828	1.33	ppbv		98
8) Bromomethane	7.02	94	73271	1.13	ppbv		99
9) Chloroethane	7.17	64	41302	1.10	ppbv		97
10) Trichlorofluoromethane	7.50	101	194841	1.16	ppbv		99
11) Ethanol	7.74	45	13481	1.13	ppbv		94
12) Freon113	8.17	101	155486	1.17	ppbv		96
13) 1,1-Dichloroethene	8.27	61	117486	1.19	ppbv		95
14) Acetone	8.37	43	113814	1.41	ppbv	#	96
15) Carbon disulfide	8.64	76	203090	1.15	ppbv	#	99
16) 2-Propanol	8.41	45	70554	1.13	ppbv	#	71
17) Methylene chloride	8.93	49	94085	1.31	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	193584	1.34	ppbv	#	89
19) trans-1,2-Dichloroethene	9.21	61	108167	1.16	ppbv		96
20) n-Hexane	9.40	57	134432	1.34	ppbv		94
21) 1,1-Dichloroethane	9.77	63	130553	1.17	ppbv		99
22) Vinyl acetate	9.70	43	122035	1.17	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	75666	1.18	ppbv		95
24) 2-Butanone	10.42	43	102092	1.19	ppbv		94
25) Ethyl acetate	10.37	43	119206	1.13	ppbv	#	99
26) Tetrahydrofuran	10.76	42	70881	1.24	ppbv		93
27) Chloroform	10.77	83	151984	1.25	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	148605	1.19	ppbv		98
29) Cyclohexane	11.04	56	135262	1.35	ppbv		92
30) Carbon tetrachloride	11.19	117	144208	1.16	ppbv		98
31) Benzene	11.47	78	214382	1.35	ppbv		98
32) 1,2-Dichloroethane	11.55	62	87620	1.29	ppbv		99
34) Heptane	11.52	43	157369	1.37	ppbv		94
35) Trichloroethene	12.20	130	100137	1.22	ppbv		98
36) 1,2-Dichloropropane	12.56	63	72803	1.25	ppbv		99
37) 1,4-Dioxane	12.63	88	24629	0.98	ppbv		97
38) Bromodichloromethane	12.84	83	134943	1.17	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	100256	1.11	ppbv		99
40) 4-Methyl-2-pentanone	13.51	58	27593	1.00	ppbv		98
41) Toluene	13.80	91	250694	1.44	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	77502	1.03	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	74078	1.22	ppbv		98
44) Tetrachloroethene	14.51	166	130161	1.28	ppbv		98
45) 2-Hexanone	14.58	43	40856	0.90	ppbv		96
46) Chlorodibromomethane	14.93	129	116554	1.16	ppbv		100
47) 1,2-Dibromoethane	15.17	107	104740	1.19	ppbv		99
49) Chlorobenzene	15.76	112	157363	1.36	ppbv	#	88
50) Ethylbenzene	15.80	91	251803	1.39	ppbv		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071137.D Vial: 11
Acq On : 8 Apr 2011 3:39 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 16:04 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

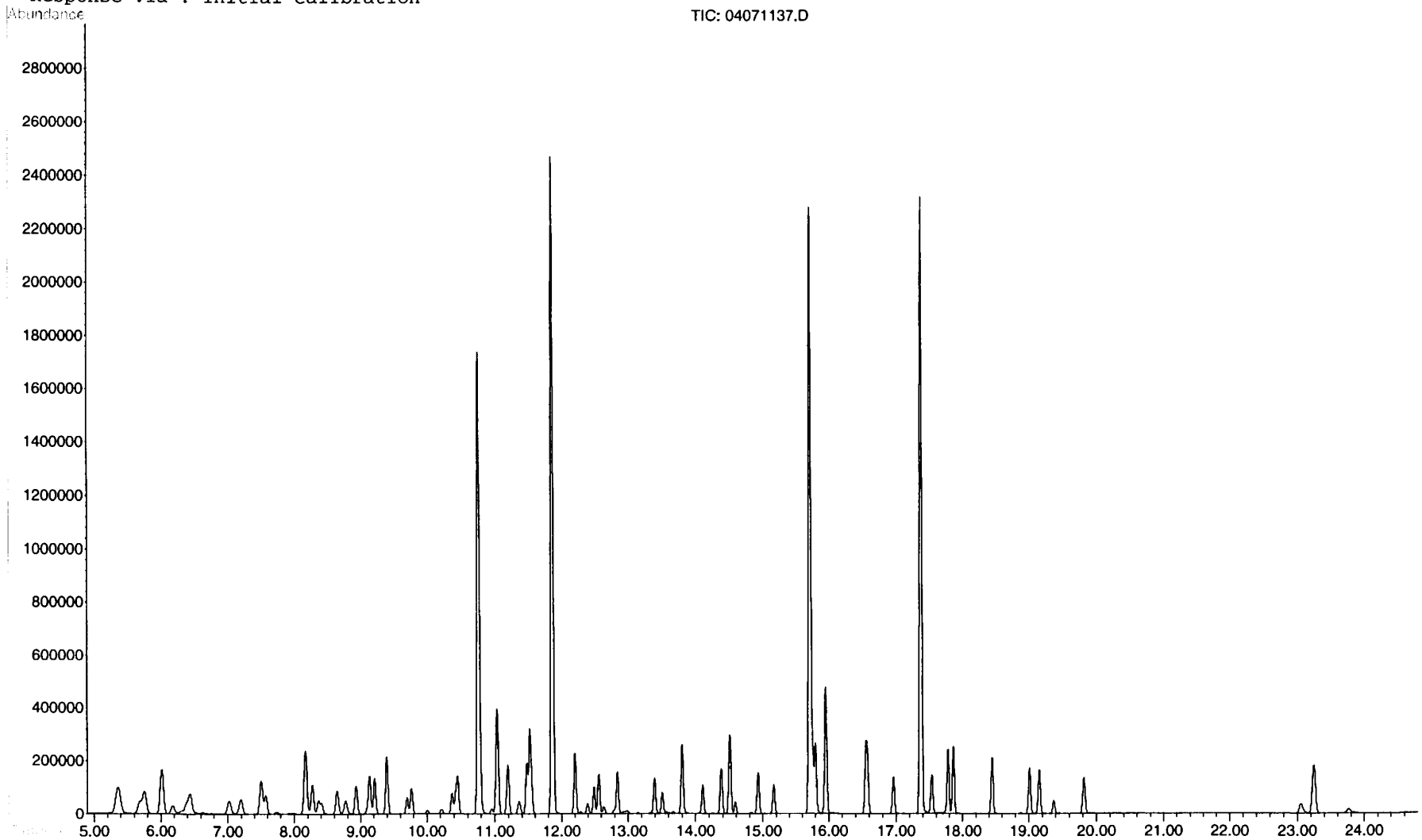
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.95	91	395268	2.85	ppbv		94
52)	o-Xylene	16.55	91	190568	1.37	ppbv		96
53)	Styrene	16.57	104	126882	1.24	ppbv		99
54)	Bromoform	16.96	173	97053	1.15	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	101664	1.19	ppbv		99
57)	4-Ethyltoluene	17.78	105	227695	1.33	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	198636	1.42	ppbv		93
59)	1,2,4-Trimethylbenzene	18.45	105	174196	1.31	ppbv		98
60)	1,3-Dichlorobenzene	19.01	146	116049	1.25	ppbv		98
61)	1,4-Dichlorobenzene	19.16	146	111793	1.24	ppbv		97
62)	Benzyl chloride	19.37	91	63093	1.10	ppbv		97
63)	1,2-Dichlorobenzene	19.81	146	98611	1.22	ppbv		99
64)	1,2,4-Trichlorobenzene	23.06	180	39542	0.70	ppbv		98
65)	Hexachlorobutadiene	23.24	225	92172	1.21	ppbv		99
66)	Naphthalene	23.77	128	48448	0.68	ppbv	#	90

(#) = qualifier out of range (m) = manual integration
04071137.D 040711V1.M Thu Apr 14 16:05:49 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071137.D Vial: 11
Acq On : 8 Apr 2011 3:39 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 16:04 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Injection Log

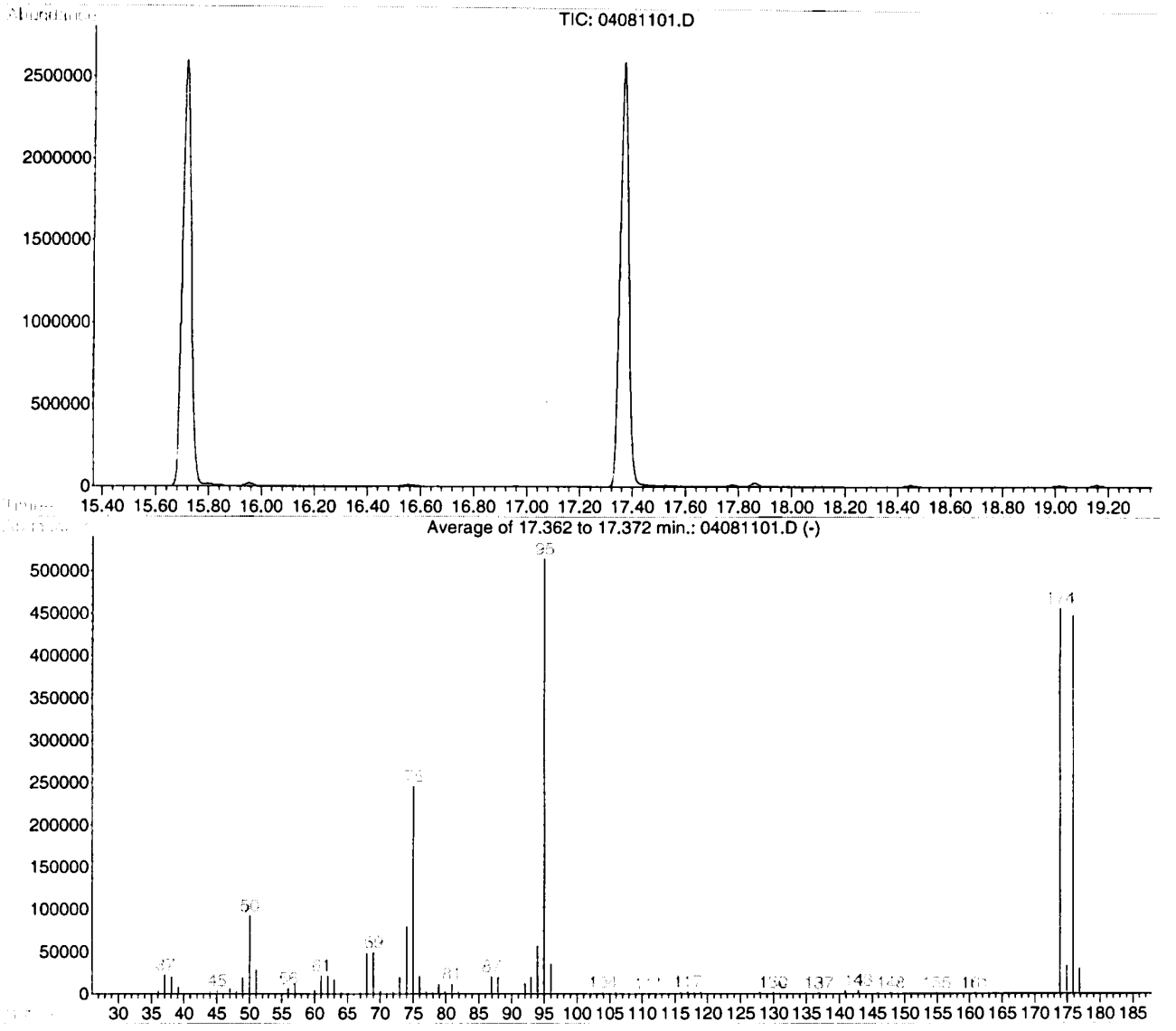
Directory: C:\HPCHEM\1\DATA\040811

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04081101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	8 Apr 2011 16:19
2	2	04081102.d	1.	TO15 CCV 40cc voa010711a	CCV EPA_TO15-ug/m3	8 Apr 2011 17:00
3	3	04081103.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15-ug/m3	8 Apr 2011 17:41
4	2	04081104.d	1.	MBLK 040811	MBLK EPA_TO15-ug/m3	8 Apr 2011 18:24
5	3	04081105.d	40000.	1103609-005A	SAMP EPA_TO15-ug/m3	8 Apr 2011 19:05
6	3	04081106.d	40000.	1103609-005ADUP	DUP EPA_TO15-ug/m3	8 Apr 2011 19:46
7	4	04081107.d	160000.	1103609-003A	SAMP EPA_TO15-ug/m3	8 Apr 2011 20:27
8	6	04081108.d	8000.	1103609-004A	SAMP EPA_TO15-ug/m3	8 Apr 2011 21:08
9	7	04081109.d	80000.	1103609-010A	SAMP EPA_TO15-ug/m3	8 Apr 2011 21:50
10	8	04081110.d	40000.	1103609-013A	SAMP EPA_TO15-ug/m3	8 Apr 2011 22:31
11	9	04081111.d	160000.	1103609-014A	SAMP EPA_TO15-ug/m3	8 Apr 2011 23:12
12	10	04081112.d	4000.	1103609-015A	SAMP EPA_TO15-ug/m3	8 Apr 2011 23:54
13	11	04081113.d	80000.	1103609-025A – DATA NOT used RHlch 4/15/11	SAMP EPA_TO15-ug/m3	9 Apr 2011 00:33
14	12	04081114.d	160000.	1103609-026A	SAMP EPA_TO15-ug/m3	9 Apr 2011 01:16
15	13	04081115.d	160000.	1103609-027A	SAMP EPA_TO15-ug/m3	9 Apr 2011 01:58
16	14	04081116.d	40.	1103609-028A	SAMP EPA_TO15-ug/m3	9 Apr 2011 02:40
17	14	04081117.d	8.	1103609-028A – DATA Not used RHlch 4/15/11	SAMP EPA_TO15-ug/m3	9 Apr 2011 03:21
18	15	04081118.d	40.	1103609-024A	SAMP EPA_TO15-ug/m3	9 Apr 2011 04:03
19	16	04081119.d	1.	1104103-001A) DATA NOT used RHlch 4/15/11	SAMP EPA_TO15	9 Apr 2011 10:06
20	17	04081120.d	1.	1104103-002A	SAMP EPA_TO15	9 Apr 2011 10:53
21	18	04081121.d	80000.	1103609-025A	SAMP EPA_TO15-ug/m3	9 Apr 2011 11:34
22	3	04081122.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15-ug/m3	9 Apr 2011 12:15

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040811\04081101.D
Acq On : 8 Apr 2011 4:19 pm
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Average of 17.362 to 17.372 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.9	92400	PASS
75	95	30	60	47.7	245781	PASS
95	95	100	100	100.0	514837	PASS
96	95	5	9	6.9	35760	PASS
173	174	0.00	2	0.2	977	PASS
174	95	50	120	88.8	457387	PASS
175	174	4	9	7.4	33813	PASS
176	174	93	101	98.1	448789	PASS
177	176	5	9	6.7	30245	PASS

04081101.D 040711V1.M Thu Apr 14 16:46:04 2011

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040811\04081102.D Vial: 2
Acq On : 8 Apr 2011 5:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	78	0.00
2	T	Propylene	0.966	0.944	2.3	77	0.00
3	T	Dichlorodifluoromethane	3.139	3.069	2.2	76	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.263	2.229	1.5	76	0.00
5	T	Chloromethane	1.136	1.446	-27.3	98	0.00
6	T	Vinyl chloride	1.239	1.315	-6.1	80	0.00
7	T	1,3-Butadiene	0.911	0.995	-9.2	81	0.00
8	T	Bromomethane	1.139	0.669	41.3#	46#	0.00
9	T	Chloroethane	0.659	0.540	18.1	63	0.00
10	T	Trichlorofluoromethane	2.945	2.915	1.0	75	0.00
11	T	Ethanol	0.211	0.300	-42.2#	141	0.00
12	T	Freon113	2.344	2.367	-1.0	75	0.00
13	T	1,1-Dichloroethene	1.739	1.538	11.6	67	0.00
14	T	Acetone	1.424	1.636	-14.9	104	0.00
15	T	Carbon disulfide	3.103	2.825	9.0	69	0.00
16	T	2-Propanol	1.095	1.410	-28.8	119	0.00
17	T	Methylene chloride	1.266	1.213	4.2	75	0.00
18	T	tert-Butyl Methyl Ether	2.545	2.925	-14.9	100	0.00
19	T	trans-1,2-Dichloroethene	1.639	1.639	0.0	77	0.00
20	T	n-Hexane	1.760	1.721	2.2	77	0.00
21	T	1,1-Dichloroethane	1.963	2.115	-7.7	87	0.00
22	T	Vinyl acetate	1.832	1.841	-0.5	87	0.00
23	T	cis-1,2-Dichloroethene	1.130	1.190	-5.3	85	0.00
24	T	2-Butanone	1.507	1.846	-22.5	111	0.00
25	T	Ethyl acetate	1.865	2.186	-17.2	101	0.00
26	T	Tetrahydrofuran	1.010	1.316	-30.3#	112	0.00
27	T	Chloroform	2.137	2.334	-9.2	86	0.00
28	T	1,1,1-Trichloroethane	2.203	2.409	-9.4	85	0.00
29	T	Cyclohexane	1.764	1.932	-9.5	84	0.00
30	T	Carbon tetrachloride	2.197	2.398	-9.1	86	0.00
31	T	Benzene	2.805	3.283	-17.0	99	0.00
32	T	1,2-Dichloroethane	1.201	1.393	-16.0	96	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
34	T	Heptane	0.570	0.641	-12.5	87	0.00
35	T	Trichloroethene	0.407	0.753	-85.0#	149	0.00
36	T	1,2-Dichloropropane	0.290	0.315	-8.6	92	0.00
37	T	1,4-Dioxane	0.125	0.130	-4.0	98	0.00
38	T	Bromodichloromethane	0.574	0.631	-9.9	89	0.00
39	T	cis-1,3-Dichloropropene	0.449	0.464	-3.3	87	0.00
40	T	4-Methyl-2-pentanone	0.137	0.187	-36.5#	127	0.00
41	T	Toluene	0.864	1.004	-16.2	96	0.00
42	T	trans-1,3-Dichloropropene	0.375	0.368	1.9	82	0.00
43	T	1,1,2-Trichloroethane	0.302	0.300	0.7	84	0.00
44	T	Tetrachloroethene	0.504	0.545	-8.1	85	0.00
45	T	2-Hexanone	0.227	0.360	-58.6#	144	0.00
46	T	Chlorodibromomethane	0.501	0.512	-2.2	84	0.00
47	T	1,2-Dibromoethane	0.437	0.383	12.4	73	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
49	T	Chlorobenzene	0.831	0.868	-4.5	84	0.00
50	T	Ethylbenzene	1.304	1.544	-18.4	93	0.00
51	T	m,p-Xylene	0.997	1.177	-18.1	88	0.00
52	T	o-Xylene	1.001	1.118	-11.7	87	0.00
53	T	Styrene	0.733	0.813	-10.9	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040811\04081102.D Vial: 2
Acq On : 8 Apr 2011 5:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.606	0.626	-3.3	80	0.00
55	S	4-Bromofluorobenzene	0.628	0.609	3.0	74	0.00
56	T	1,1,2,2-Tetrachloroethane	0.611	0.124	79.7#	16#	0.00
57	T	4-Ethyltoluene	1.226	1.216	0.8	78	0.00
58	T	1,3,5-Trimethylbenzene	1.006	1.050	-4.4	82	0.00
59	T	1,2,4-Trimethylbenzene	0.954	0.924	3.1	77	0.00
60	T	1,3-Dichlorobenzene	0.667	0.665	0.3	79	0.00
61	T	1,4-Dichlorobenzene	0.645	0.658	-2.0	81	0.00
62	T	Benzyl chloride	0.411	0.138	66.4#	29#	0.00
63	T	1,2-Dichlorobenzene	0.580	0.577	0.5	80	0.00
64	T	1,2,4-Trichlorobenzene	0.405	0.328	19.0	71	0.00
65	T	Hexachlorobutadiene	0.548	0.504	8.0	77	0.00
66		Naphthalene	0.511	0.393	23.1	70	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081102.D Vial: 2
Acq On : 8 Apr 2011 5:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 17:24 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	777750	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2717167	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1892201	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1152205	12.13	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.04%				
Target Compounds							Qvalue
2) Propylene	5.69	41	598803	9.96	ppbv		99
3) Dichlorodifluoromethane	5.76	85	1756975	9.00	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	1317468	9.36	ppbv		94
5) Chloromethane	6.18	50	854629	12.09	ppbv		99
6) Vinyl chloride	6.39	62	769178	9.98	ppbv		100
7) 1,3-Butadiene	6.44	39	606892	10.70	ppbv		99
8) Bromomethane	7.03	94	387079	5.46	ppbv	#	99
9) Chloroethane	7.18	64	309292	7.55	ppbv		98
10) Trichlorofluoromethane	7.51	101	1741300	9.50	ppbv		99
11) Ethanol	7.74	45	171782	13.11	ppbv		99
12) Freon113	8.17	101	1443235	9.90	ppbv		95
13) 1,1-Dichloroethene	8.27	61	947166	8.75	ppbv		95
14) Acetone	8.36	43	1018174	11.49	ppbv		97
15) Carbon disulfide	8.64	76	1704748	8.83	ppbv	#	100
16) 2-Propanol	8.41	45	885926	13.00	ppbv		90
17) Methylene chloride	8.93	49	754927	9.58	ppbv		92
18) tert-Butyl Methyl Ether	9.13	73	1801734	11.38	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	999476	9.80	ppbv		94
20) n-Hexane	9.40	57	1081661	9.88	ppbv	#	96
21) 1,1-Dichloroethane	9.77	63	1276353	10.45	ppbv		99
22) Vinyl acetate	9.71	43	1134124	9.95	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	725826	10.33	ppbv		95
24) 2-Butanone	10.42	43	1137346	12.13	ppbv		93
25) Ethyl acetate	10.37	43	1333129	11.49	ppbv	#	99
26) Tetrahydrofuran	10.76	42	818654	13.03	ppbv		95
27) Chloroform	10.78	83	1423200	10.70	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1439012	10.50	ppbv		98
29) Cyclohexane	11.04	56	1178105	10.74	ppbv		95
30) Carbon tetrachloride	11.19	117	1417542	10.37	ppbv		99
31) Benzene	11.47	78	1961192	11.24	ppbv		98
32) 1,2-Dichloroethane	11.55	62	840936	11.26	ppbv		99
34) Heptane	11.52	43	1379430	11.14	ppbv		96
35) Trichloroethene	12.20	130	1572328	17.76	ppbv		97
36) 1,2-Dichloropropane	12.56	63	670427	10.62	ppbv		99
37) 1,4-Dioxane	12.63	88	270622	9.95	ppbv		98
38) Bromodichloromethane	12.84	83	1316501	10.55	ppbv		98
39) cis-1,3-Dichloropropene	13.39	75	958036	9.82	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	407102	13.72	ppbv		98
41) Toluene	13.80	91	2139469	11.39	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	727761	8.94	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	639890	9.76	ppbv		98
44) Tetrachloroethene	14.51	166	1136573	10.38	ppbv		99
45) 2-Hexanone	14.58	43	767488	15.59	ppbv		98
46) Chlorodibromomethane	14.92	129	1090554	10.00	ppbv		100
47) 1,2-Dibromoethane	15.17	107	799684	8.42	ppbv		99
49) Chlorobenzene	15.76	112	1300537	10.33	ppbv		94
50) Ethylbenzene	15.80	91	2289781	11.60	ppbv		97

(#) = qualifier out of range (m) = manual integration
04081102.D 040711V1.M Thu Apr 14 16:46:13 2011 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081102.D Vial: 2
Acq On : 8 Apr 2011 5:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 17:24 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

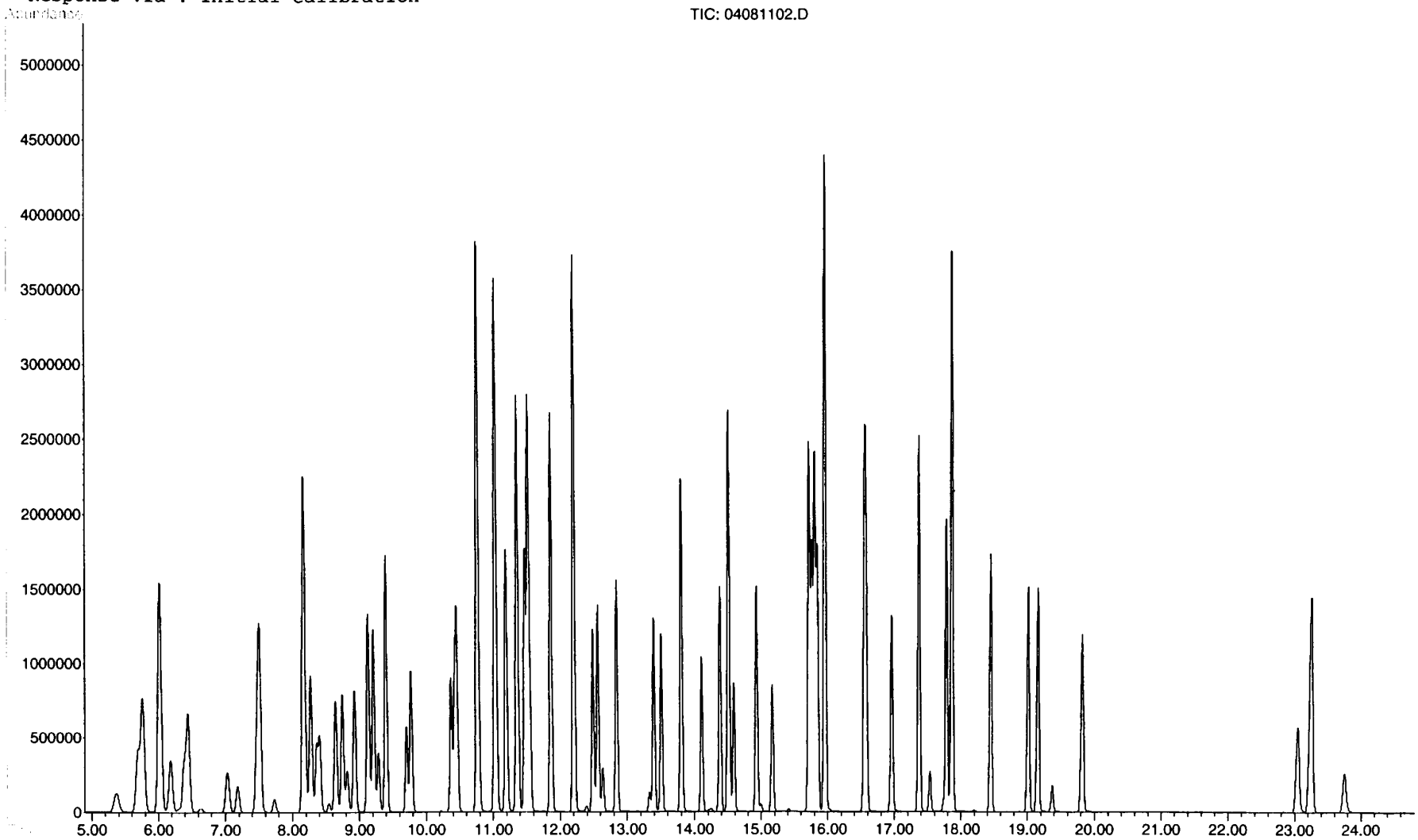
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	3421595	22.67	ppbv		95
52) o-Xylene	16.55	91	1692388	11.16	ppbv		96
53) Styrene	16.58	104	1206055	10.87	ppbv		98
54) Bromoform	16.96	173	909437	9.91	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	187293	2.02	ppbv		98
57) 4-Ethyltoluene	17.78	105	1804405	9.72	ppbv		97
58) 1,3,5-Trimethylbenzene	17.86	105	1542085	10.13	ppbv	#	57
59) 1,2,4-Trimethylbenzene	18.44	105	1370340	9.49	ppbv		98
60) 1,3-Dichlorobenzene	19.01	146	976321	9.67	ppbv		99
61) 1,4-Dichlorobenzene	19.16	146	955816	9.78	ppbv		99
62) Benzyl chloride	19.37	91	202316	3.25	ppbv		99
63) 1,2-Dichlorobenzene	19.81	146	846764	9.65	ppbv		99
64) 1,2,4-Trichlorobenzene	23.04	180	451775	7.38	ppbv		98
65) Hexachlorobutadiene	23.24	225	716807	8.65	ppbv		99
66) Naphthalene	23.75	128	547119	7.08	ppbv		100

(#) = qualifier out of range (m) = manual integration
04081102.D 040711V1.M Thu Apr 14 16:46:13 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081102.D Vial: 2
Acq On : 8 Apr 2011 5:00 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 17:24 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081103.D Vial: 3
Acq On : 8 Apr 2011 5:41 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 18:06 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	730806	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2685821	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1849067	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1124112	12.11	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.88%				
Target Compounds							Qvalue
2) Propylene	5.68	41	67713	1.20	ppbv		96
3) Dichlorodifluoromethane	5.75	85	195559	1.07	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	148533	1.12	ppbv		94
5) Chloromethane	6.19	50	78754	1.19	ppbv	#	95
6) Vinyl chloride	6.39	62	88164	1.22	ppbv	#	99
7) 1,3-Butadiene	6.44	39	68859	1.29	ppbv		95
8) Bromomethane	7.02	94	72284	1.09	ppbv		98
9) Chloroethane	7.18	64	41501	1.08	ppbv		97
10) Trichlorofluoromethane	7.51	101	198478	1.15	ppbv		98
11) Ethanol	7.74	45	17045	1.38	ppbv		98
12) Freon113	8.17	101	159544	1.16	ppbv		98
13) 1,1-Dichloroethene	8.27	61	119891	1.18	ppbv		95
14) Acetone	8.36	43	124030	1.49	ppbv	#	95
15) Carbon disulfide	8.64	76	202883	1.12	ppbv	#	99
16) 2-Propanol	8.41	45	80768	1.26	ppbv	#	1
17) Methylene chloride	8.93	49	93275	1.26	ppbv		91
18) tert-Butyl Methyl Ether	9.13	73	214254	1.44	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	109805	1.15	ppbv		96
20) n-Hexane	9.39	57	128315	1.25	ppbv		95
21) 1,1-Dichloroethane	9.77	63	135989	1.19	ppbv		98
22) Vinyl acetate	9.70	43	132174	1.23	ppbv		97
23) cis-1,2-Dichloroethene	10.45	96	77152	1.17	ppbv		96
24) 2-Butanone	10.42	43	126210	1.43	ppbv		92
25) Ethyl acetate	10.37	43	140157	1.29	ppbv	#	100
26) Tetrahydrofuran	10.76	42	77483	1.31	ppbv		95
27) Chloroform	10.77	83	157558	1.26	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	155333	1.21	ppbv		98
29) Cyclohexane	11.04	56	123851	1.20	ppbv		94
30) Carbon tetrachloride	11.19	117	151471	1.18	ppbv		98
31) Benzene	11.47	78	216100	1.32	ppbv		98
32) 1,2-Dichloroethane	11.55	62	91535	1.30	ppbv		99
34) Heptane	11.52	43	153371	1.25	ppbv		95
35) Trichloroethene	12.20	130	103825	1.19	ppbv		97
36) 1,2-Dichloropropane	12.56	63	76759	1.23	ppbv		99
37) 1,4-Dioxane	12.64	88	36296	1.35	ppbv		99
38) Bromodichloromethane	12.84	83	143127	1.16	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	109107	1.13	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	31876	1.09	ppbv		98
41) Toluene	13.80	91	250481	1.35	ppbv		97
42) trans-1,3-Dichloropropene	14.10	75	85948	1.07	ppbv		97
43) 1,1,2-Trichloroethane	14.38	97	78465	1.21	ppbv		98
44) Tetrachloroethene	14.50	166	137899	1.27	ppbv		97
45) 2-Hexanone	14.58	43	56137	1.15	ppbv		97
46) Chlorodibromomethane	14.92	129	125864	1.17	ppbv		99
47) 1,2-Dibromoethane	15.17	107	113275	1.21	ppbv		99
49) Chlorobenzene	15.76	112	168084	1.37	ppbv	#	88
50) Ethylbenzene	15.80	91	273863	1.42	ppbv		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081103.D Vial: 3
Acq On : 8 Apr 2011 5:41 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 18:06 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

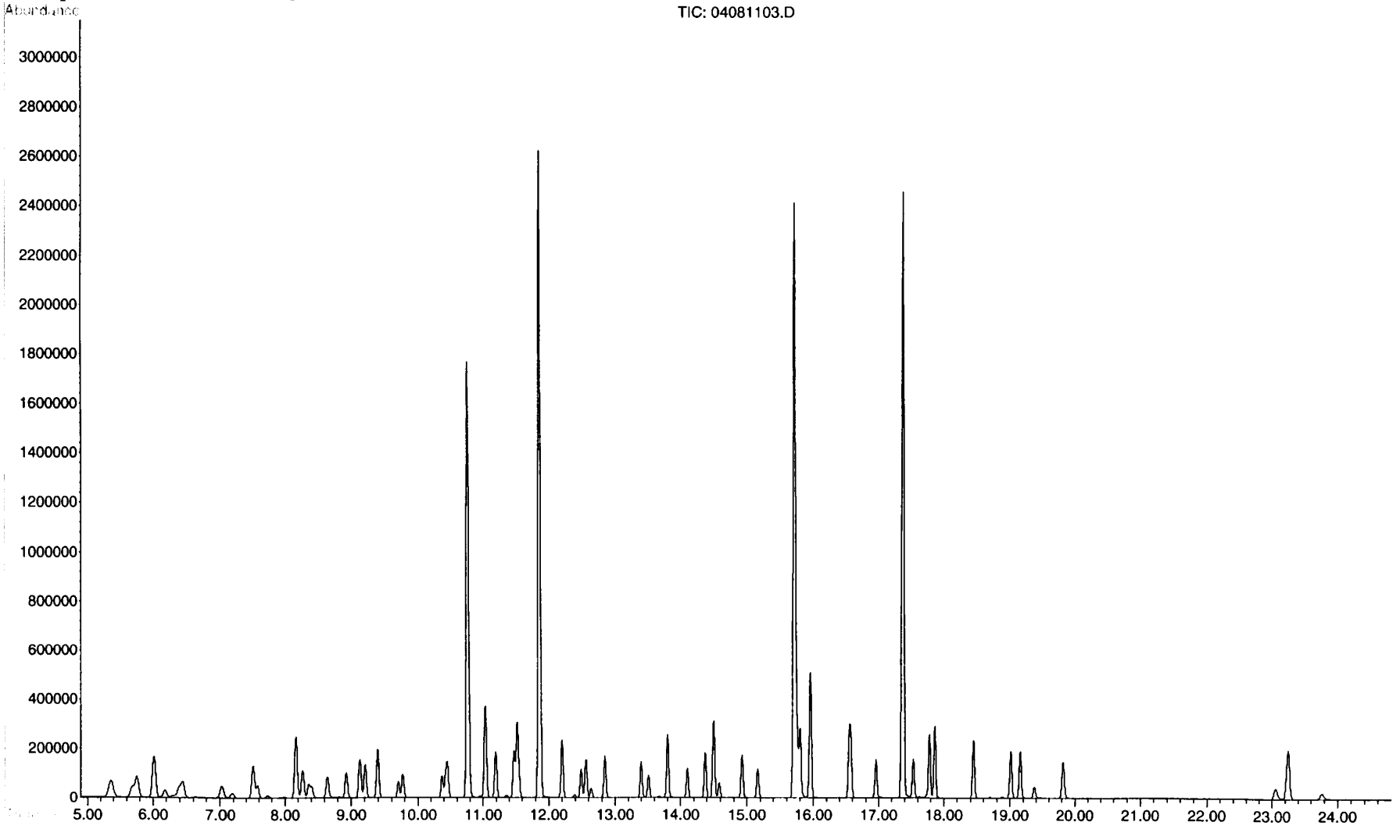
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.96	91	421170	2.86	ppbv		93
52) o-Xylene	16.55	91	206267	1.39	ppbv		97
53) Styrene	16.57	104	136928	1.26	ppbv		98
54) Bromoform	16.96	173	107756	1.20	ppbv		100
56) 1,1,2,2-Tetrachloroethane	17.53	83	110747	1.22	ppbv		98
57) 4-Ethyltoluene	17.78	105	255880	1.41	ppbv		97
58) 1,3,5-Trimethylbenzene	17.86	105	217704	1.46	ppbv		95
59) 1,2,4-Trimethylbenzene	18.44	105	195282	1.38	ppbv		98
60) 1,3-Dichlorobenzene	19.01	146	134909	1.37	ppbv		97
61) 1,4-Dichlorobenzene	19.16	146	124591	1.31	ppbv		99
62) Benzyl chloride	19.38	91	68371	1.12	ppbv		97
63) 1,2-Dichlorobenzene	19.82	146	117248	1.37	ppbv		96
64) 1,2,4-Trichlorobenzene	23.05	180	47839	0.80	ppbv		98
65) Hexachlorobutadiene	23.24	225	103332	1.28	ppbv		97
66) Naphthalene	23.75	128	69187	0.92	ppbv	#	95

(#) = qualifier out of range (m) = manual integration
04081103.D 040711V1.M Thu Apr 14 16:46:21 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081103.D Vial: 3
Acq On : 8 Apr 2011 5:41 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 18:06 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081104.D Vial: 2
Acq On : 8 Apr 2011 6:24 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK 040811 Inst : GC/MS Ins
Misc : MBLK EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 18:49 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

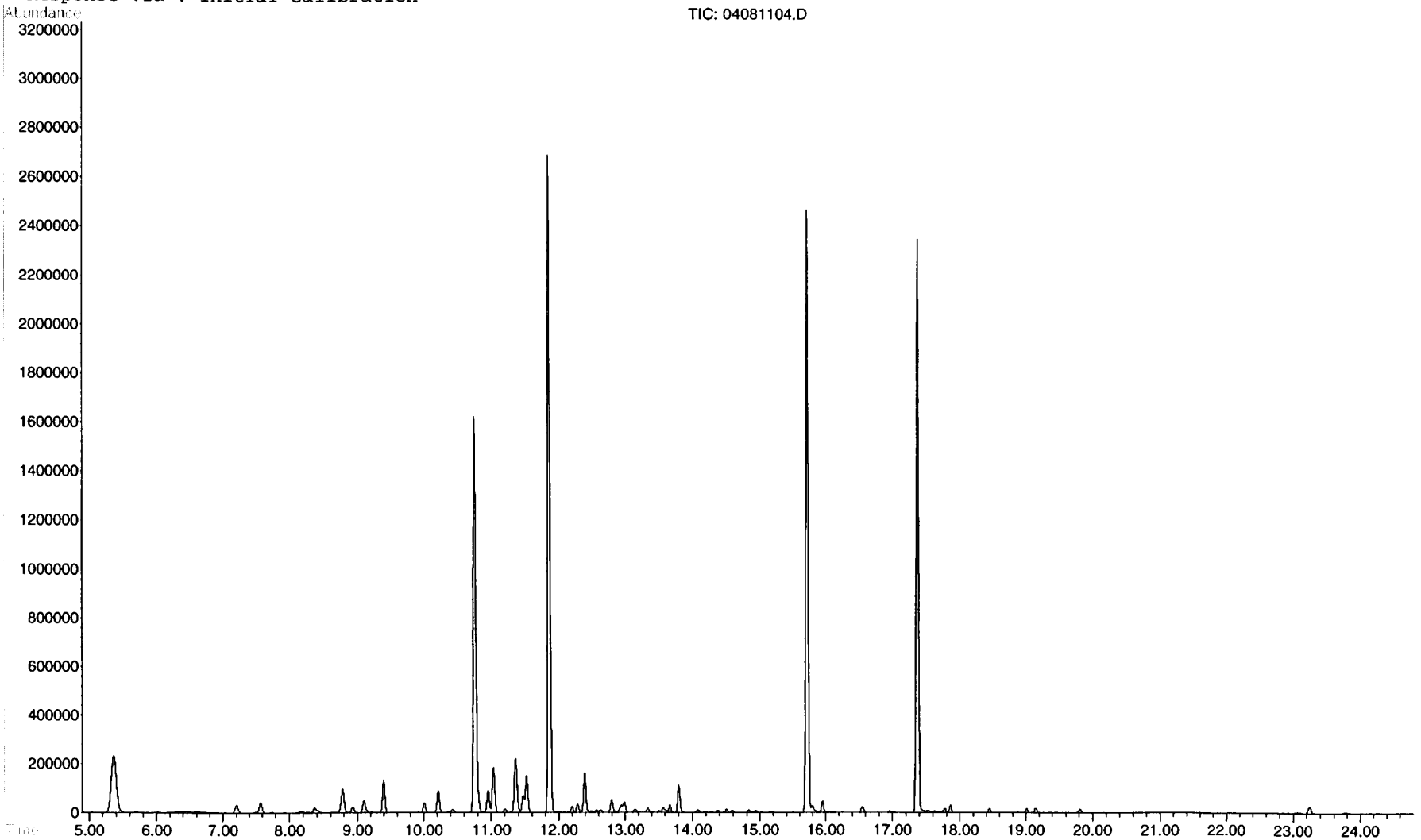
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	749110	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	2735105	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.71	117	1875923	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1080169	11.47	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 91.76%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
04081104.D 040711V1.M Thu Apr 14 16:46:37 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081104.D Vial: 2
Acq On : 8 Apr 2011 6:24 pm Operator: Michael Truchan/Rachel Hill
Sample : MBLK 040811 Inst : GC/MS Ins
Misc : MBLK EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 8 18:49 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081105.D Vial: 3
Acq On : 8 Apr 2011 7:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:09 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	679891	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2351513	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1687417	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1049840	12.39	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.12%				
Target Compounds							Qvalue
20) n-Hexane *	9.39	57	965516	10.09	ppbv		97
29) Cyclohexane *	11.03	56	1419200	14.80	ppbv	#	75
31) Benzene	11.47	78	588384	3.86	ppbv		95
34) Heptane *	11.52	43	1713540	15.99	ppbv	#	93
41) Toluene *	13.80	91	984587	6.06	ppbv		98
51) m,p-Xylene	15.95	91	206466	1.53	ppbv		94

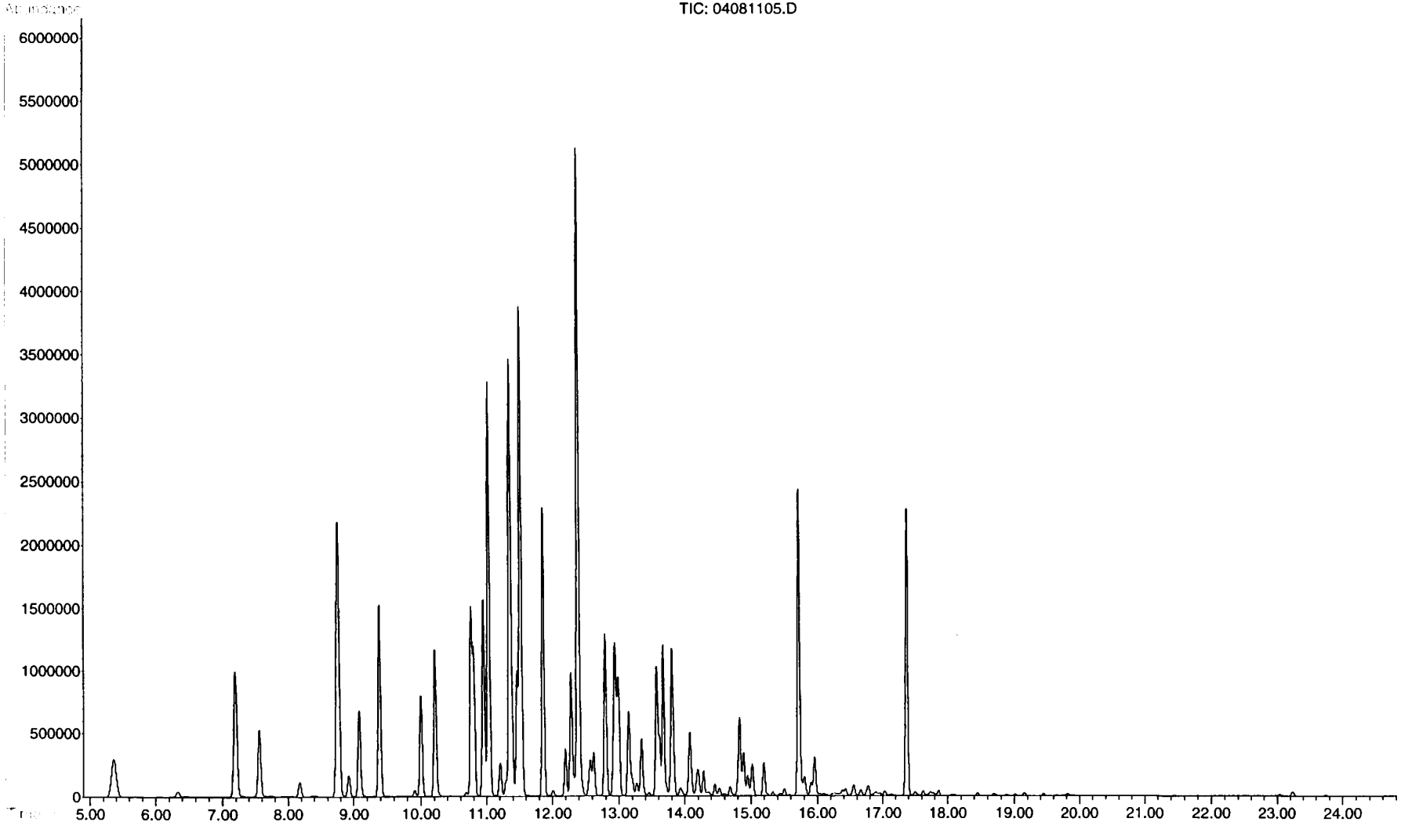
* = reported only AP 4/15/11

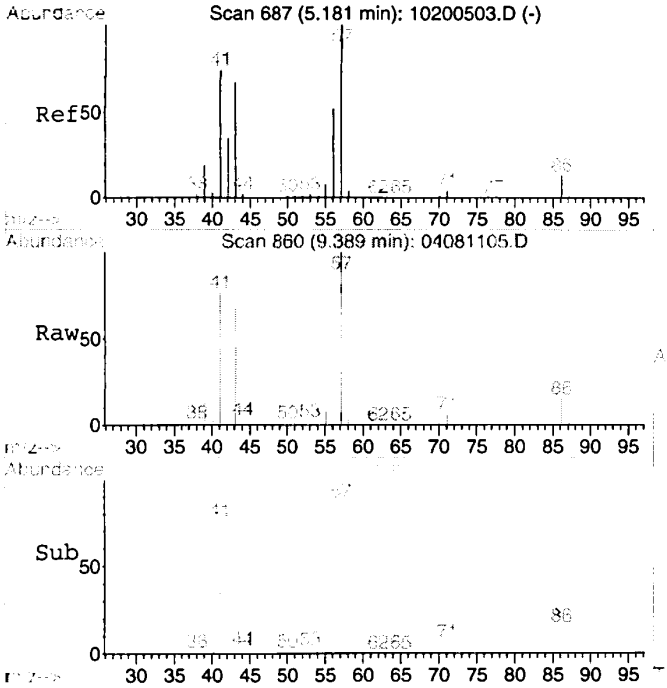
(#) = qualifier out of range (m) = manual integration
04081105.D 040711V1.M Thu Apr 14 16:49:42 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081105.D Vial: 3
Acq On : 8 Apr 2011 7:05 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:09 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

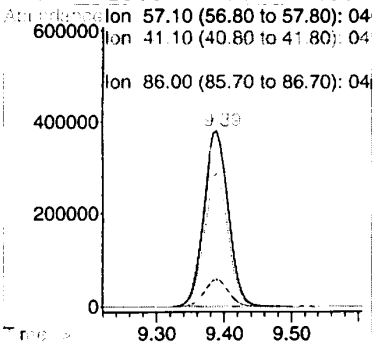


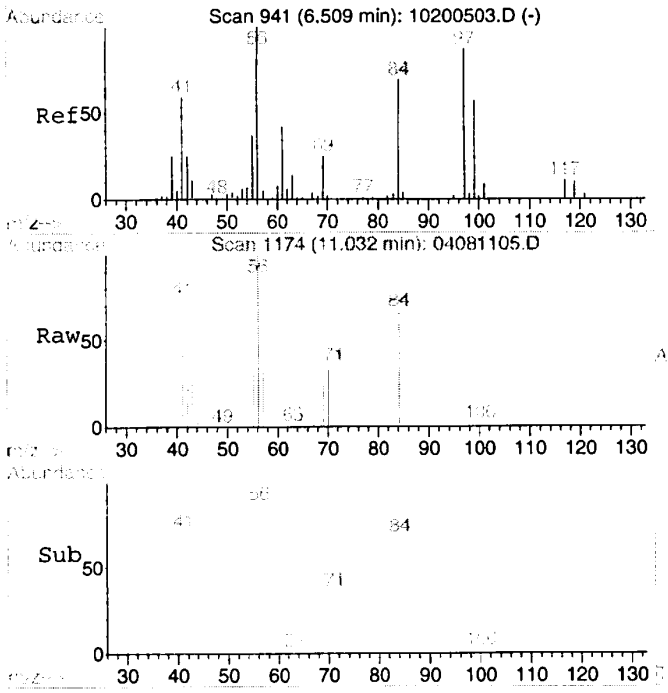


#20
n-Hexane
Concen: 10.09 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04081105.D
Acq: 8 Apr 2011 7:05 pm

Tgt Ion: 57 Resp: 965516

Ion	Ratio	Lower	Upper
57	100		
41	74.0	57.2	85.8
53	2.4	1.8	2.8
86	15.3	13.4	20.0

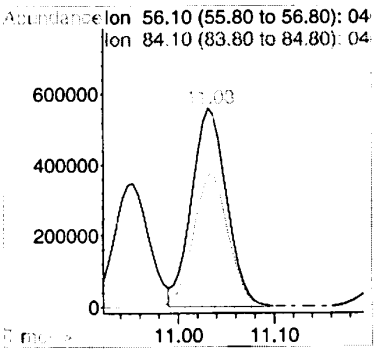


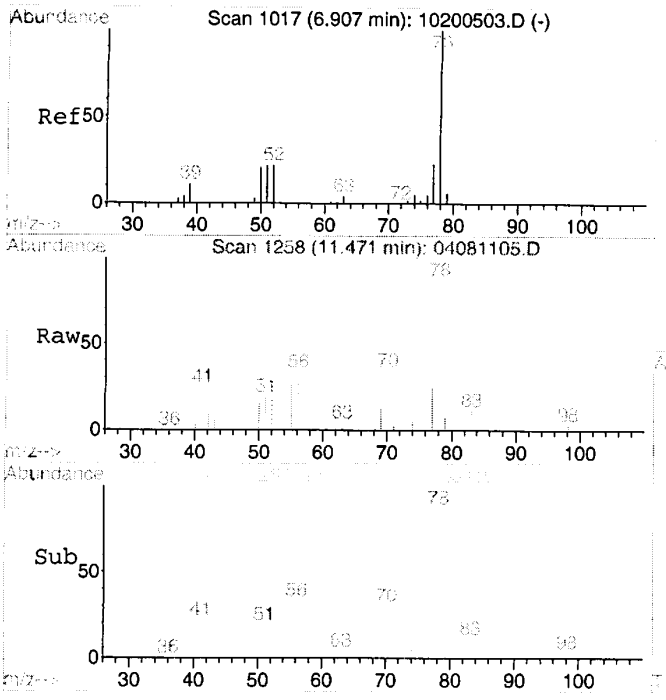


#29
Cyclohexane
Concen: 14.80 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.00 min
Lab File: 04081105.D
Acq: 8 Apr 2011 7:05 pm

Tgt Ion: 56 Resp: 1419200

Ion	Ratio	Lower	Upper
56	100		
84	66.9	72.4	108.6#
41	73.5	43.8	65.8#

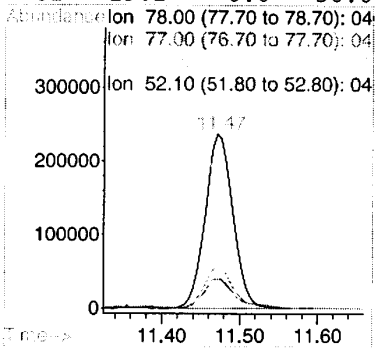


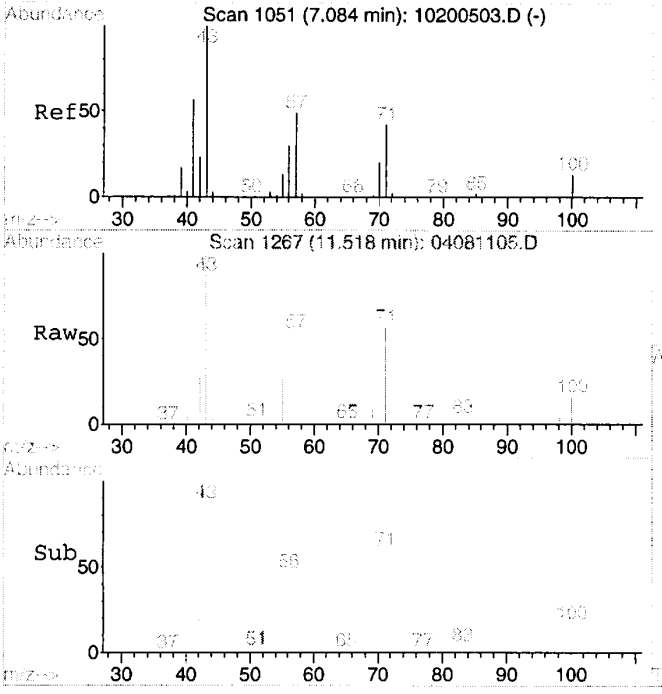


#31
Benzene
Concen: 3.86 ppbv
RT: 11.47 min Scan# 1258
Delta R.T. -0.00 min
Lab File: 04081105.D
Acq: 8 Apr 2011 7:05 pm

Tgt Ion: 78 Resp: 588384

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.7	43.7
51	18.2	0.0	36.1
52	19.2	0.0	36.0

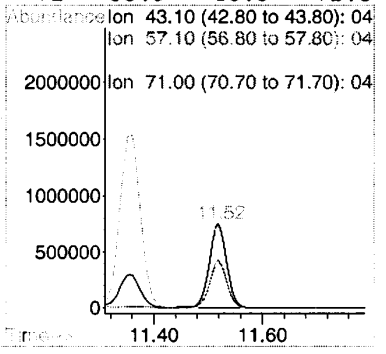


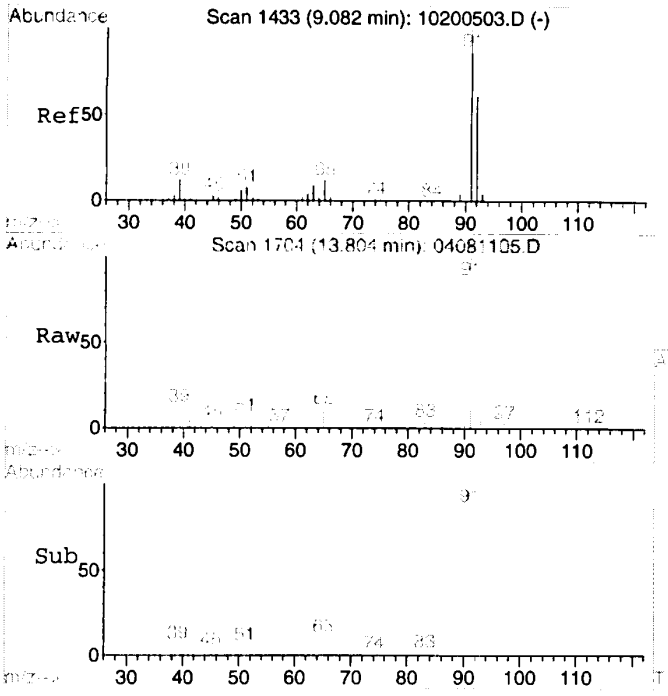


#34
Heptane
Concen: 15.99 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04081105.D
Acq: 8 Apr 2011 7:05 pm

Tgt Ion: 43 Resp: 1713540

Ion	Ratio	Lower	Upper
43	100		
57	56.0	42.2	63.4
100	15.5	17.3	25.9#
71	55.9	48.3	72.5

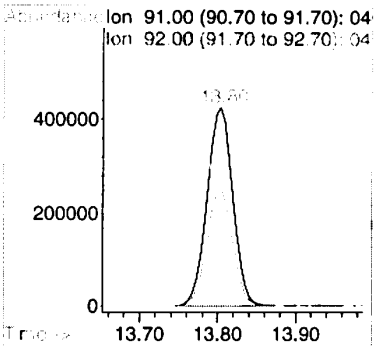


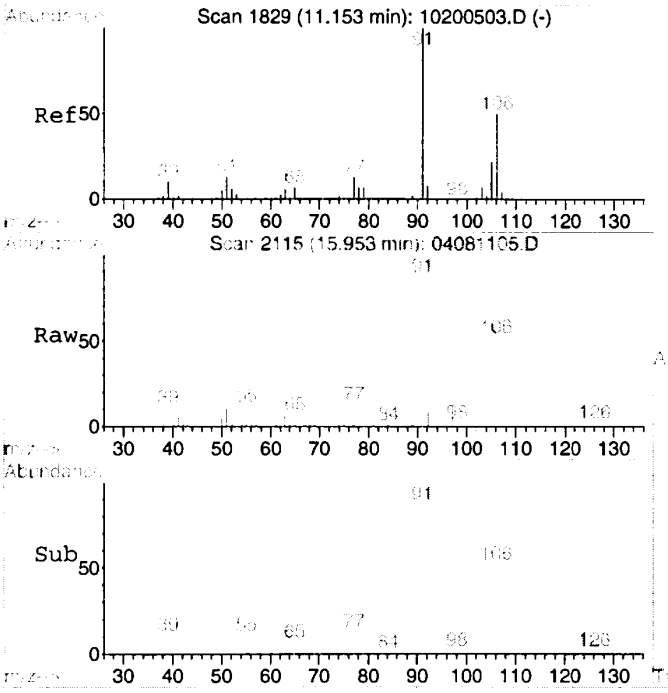


#41
Toluene
Concen: 6.06 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04081105.D
Acq: 8 Apr 2011 7:05 pm

Tgt Ion: 91 Resp: 984587

Ion	Ratio	Lower	Upper
91	100		
92	58.6	40.5	80.5
65	11.5	0.0	31.2

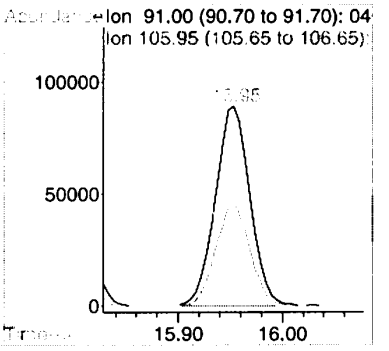




#51
m,p-Xylene
Concen: 1.53 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04081105.D
Acq: 8 Apr 2011 7:05 pm

Tgt Ion: 91 Resp: 206466

Ion	Ratio	Lower	Upper
91	100		
106	50.7	35.6	75.6
51	10.7	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081106.D Vial: 3
Acq On : 8 Apr 2011 7:46 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005ADUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-ug/m3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:10 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

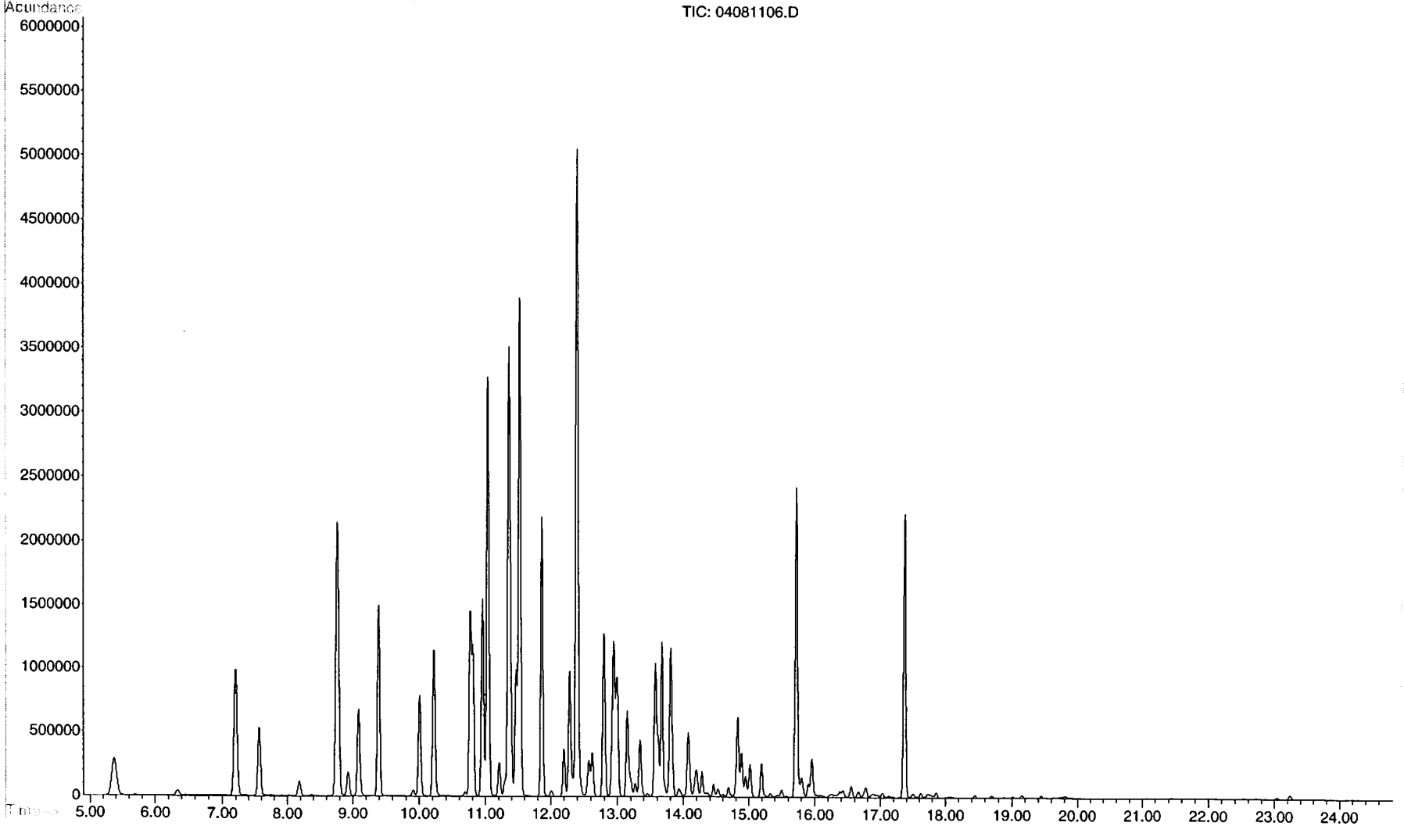
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	654222	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.87	114	2283700	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1655643	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1023993	12.32	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.56%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	950418	10.32	ppbv		96
29) Cyclohexane	11.03	56	1420070	15.39	ppbv	#	75
31) Benzene	11.47	78	580424	3.95	ppbv		94
34) Heptane	11.52	43	1703397	16.37	ppbv	#	94
41) Toluene	13.80	91	977625	6.19	ppbv		98
51) m,p-Xylene	15.95	91	207808	1.57	ppbv		93

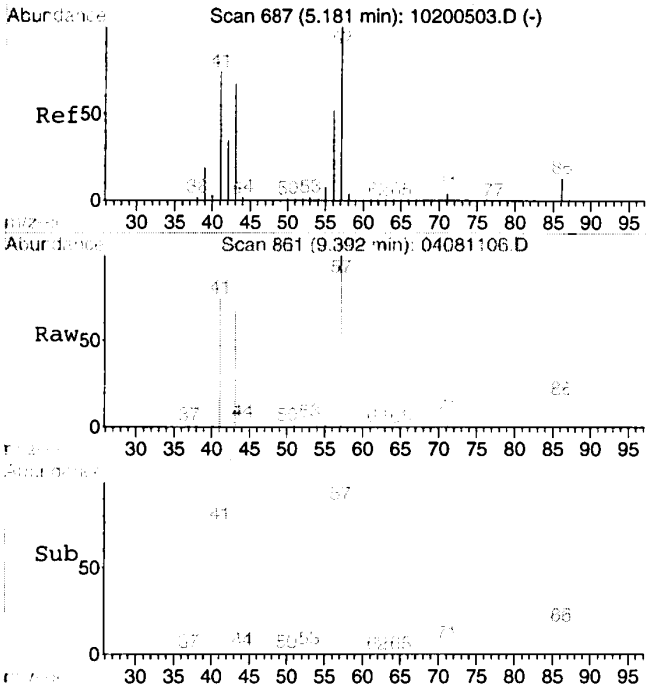
(#) = qualifier out of range (m) = manual integration
04081106.D 040711V1.M Thu Apr 14 16:49:54 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081106.D Vial: 3
Acq On : 8 Apr 2011 7:46 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-005ADUP Inst : GC/MS Ins
Misc : DUP EPA_TO15-ug/m3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:10 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

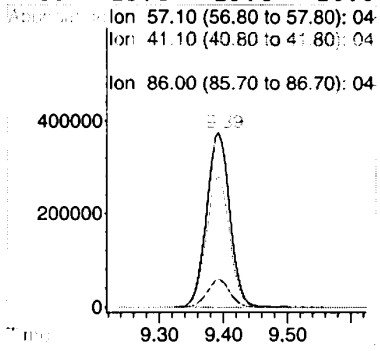


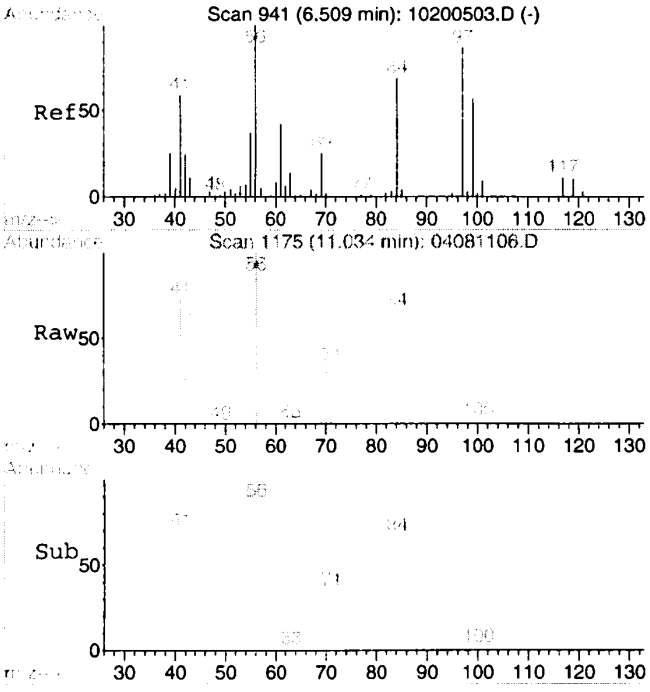


#20
n-Hexane
Concen: 10.32 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04081106.D
Acq: 8 Apr 2011 7:46 pm

Tgt Ion: 57 Resp: 950418

Ion	Ratio	Lower	Upper
57	100		
41	75.2	57.2	85.8
53	2.5	1.8	2.8
86	15.4	13.4	20.0

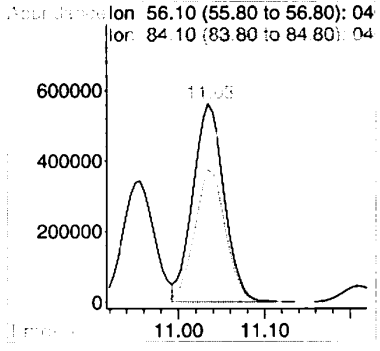


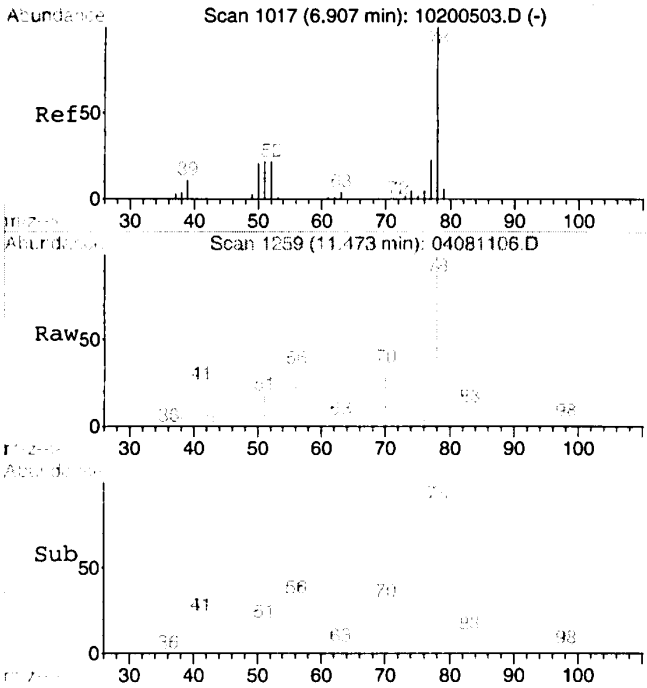


#29
Cyclohexane
Concen: 15.39 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081106.D
Acq: 8 Apr 2011 7:46 pm

Tgt Ion: 56 Resp: 1420070

Ion	Ratio	Lower	Upper
56	100		
84	67.2	72.4	108.6#
41	73.6	43.8	65.8#

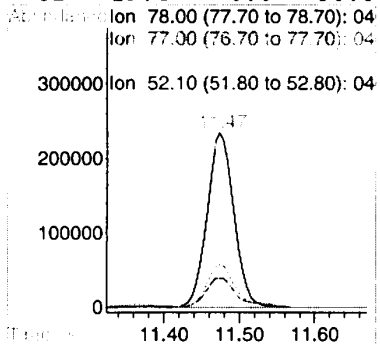


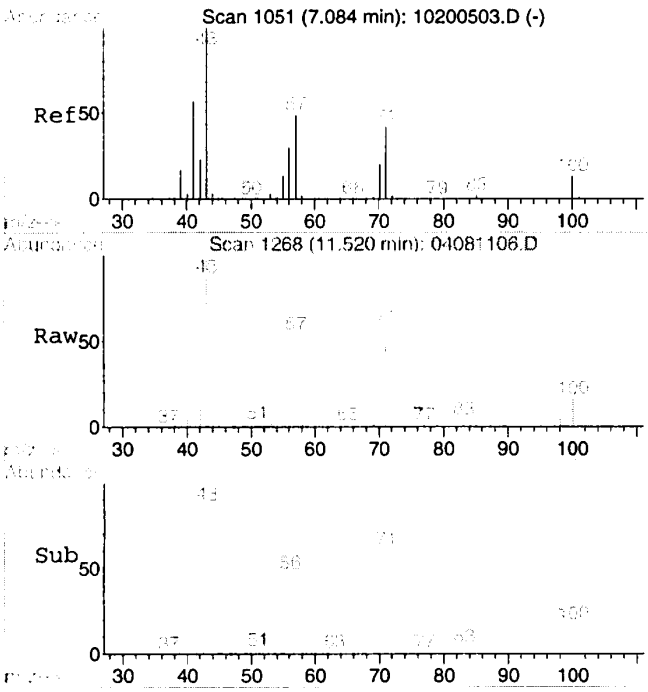


#31
Benzene
Concen: 3.95 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081106.D
Acq: 8 Apr 2011 7:46 pm

Tgt Ion: 78 Resp: 580424

Ion	Ratio	Lower	Upper
78	100		
77	26.1	3.7	43.7
51	18.5	0.0	36.1
52	19.4	0.0	36.0

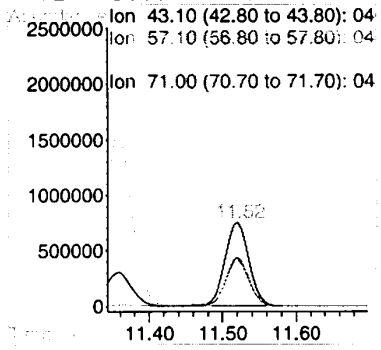


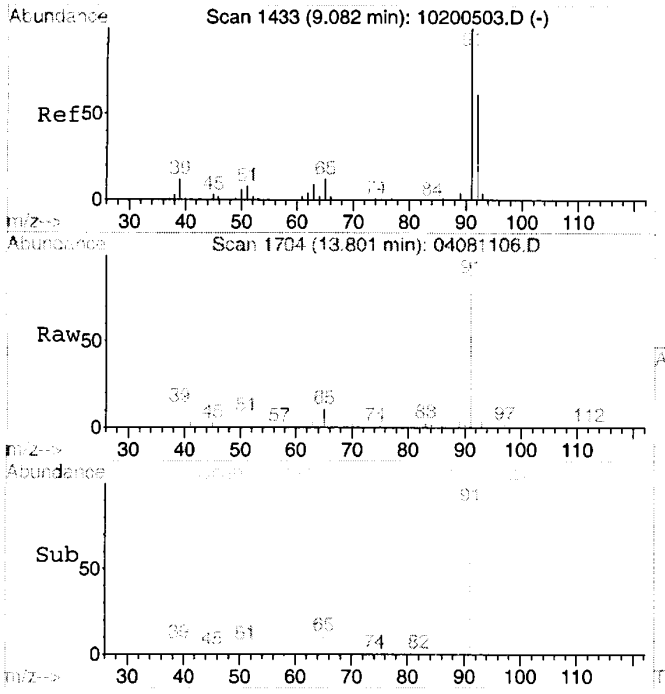


#34
Heptane
Concen: 16.37 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04081106.D
Acq: 8 Apr 2011 7:46 pm

Tgt Ion: 43 Resp: 1703397

Ion	Ratio	Lower	Upper
43	100		
57	56.2	42.2	63.4
100	15.5	17.3	25.9#
71	56.3	48.3	72.5

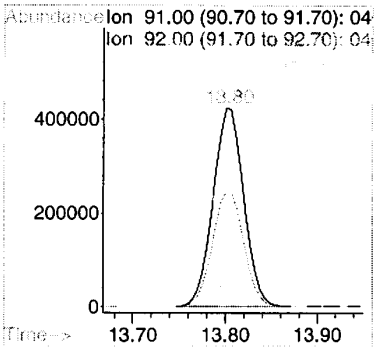


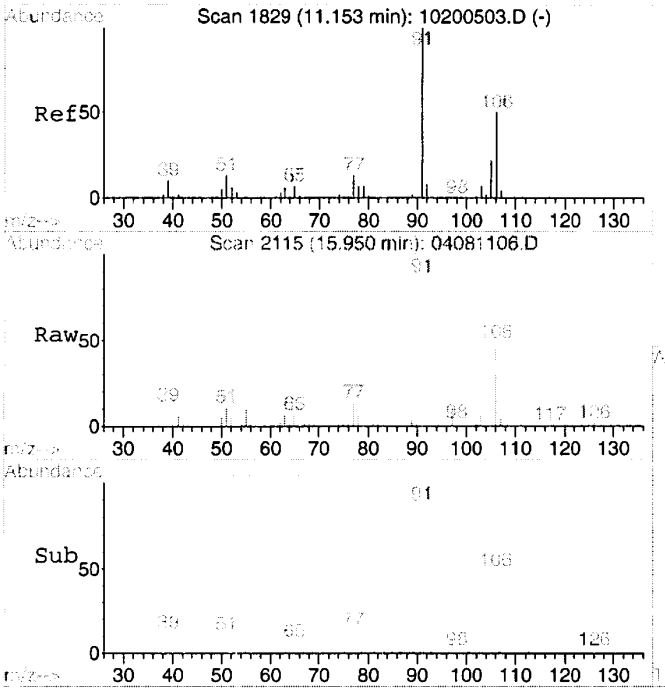


#41
Toluene
Concen: 6.19 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04081106.D
Acq: 8 Apr 2011 7:46 pm

Tgt Ion: 91 Resp: 977625

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.7	0.0	31.2

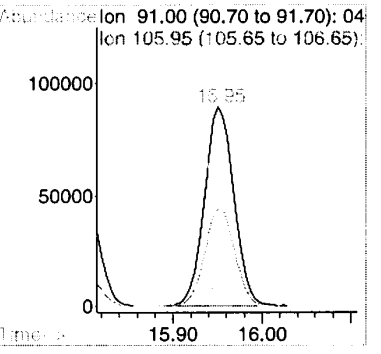




#51
m,p-Xylene
Concen: 1.57 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04081106.D
Acq: 8 Apr 2011 7:46 pm

Tgt Ion: 91 Resp: 207808

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	11.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081107.D Vial: 4
Acq On : 8 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:10 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

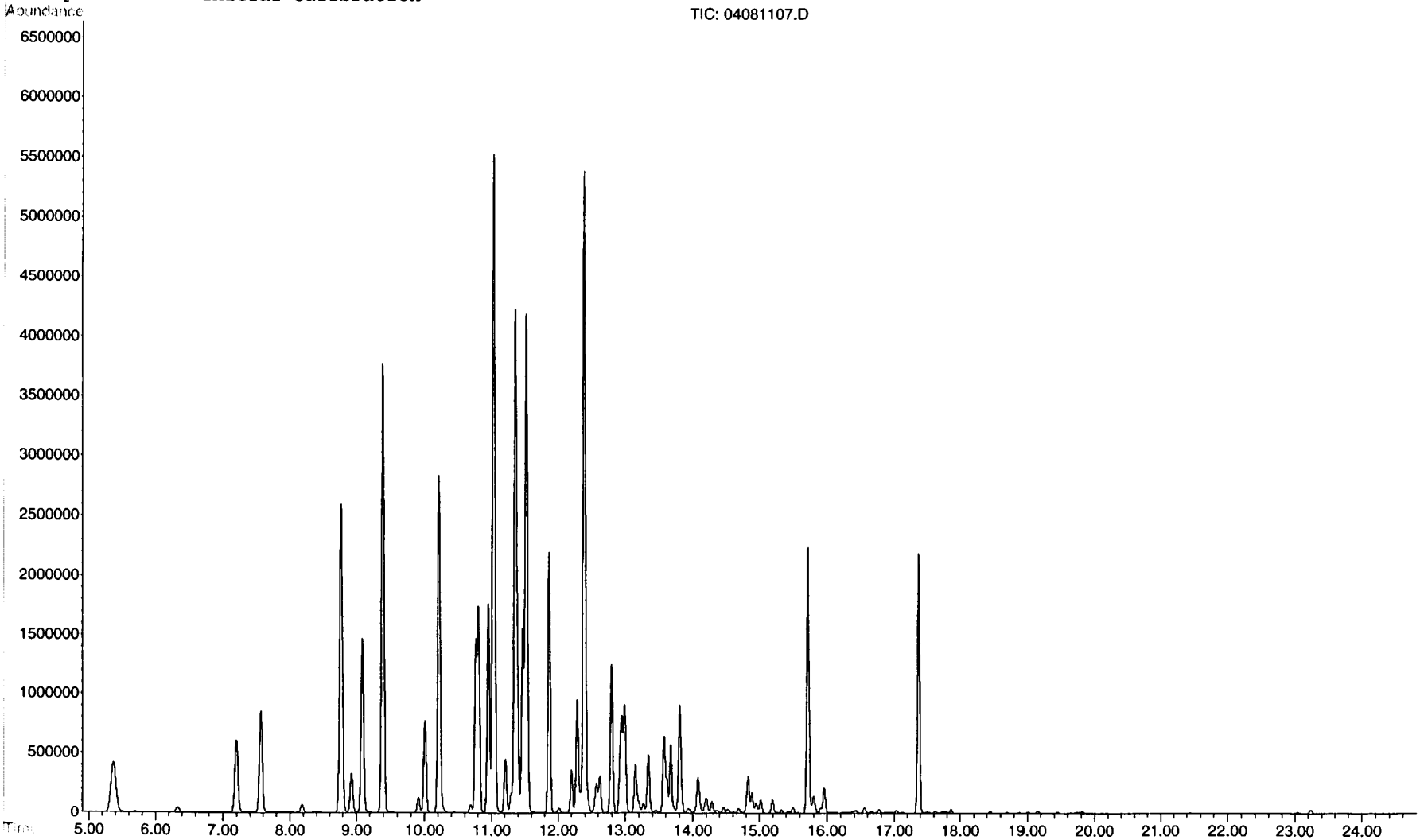
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	645116	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2257385	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1661905	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1009778	12.10	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.80%				
Target Compounds							Qvalue
20) n-Hexane	9.39	57	2393380	26.35	ppbv		98
29) Cyclohexane	11.03	56	2544036	27.95	ppbv	#	80
31) Benzene	11.47	78	964542	6.66	ppbv		92
34) Heptane	11.52	43	1724853	16.77	ppbv	#	93
41) Toluene	13.80	91	787482	5.05	ppbv		98
51) m,p-Xylene	15.95	91	157669	1.19	ppbv		94

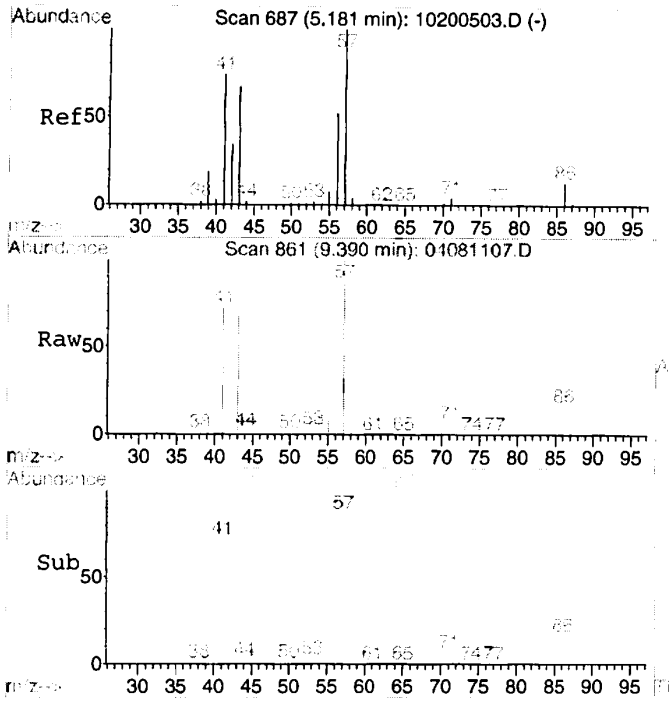
(#) = qualifier out of range (m) = manual integration
04081107.D 040711V1.M Thu Apr 14 16:50:02 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D Vial: 4
Acq On : 8 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:10 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

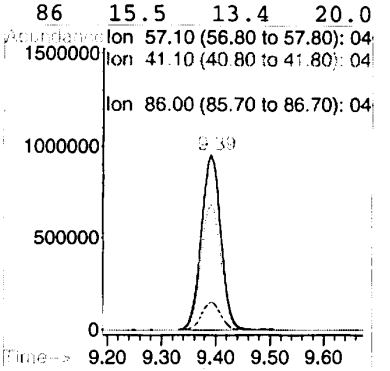


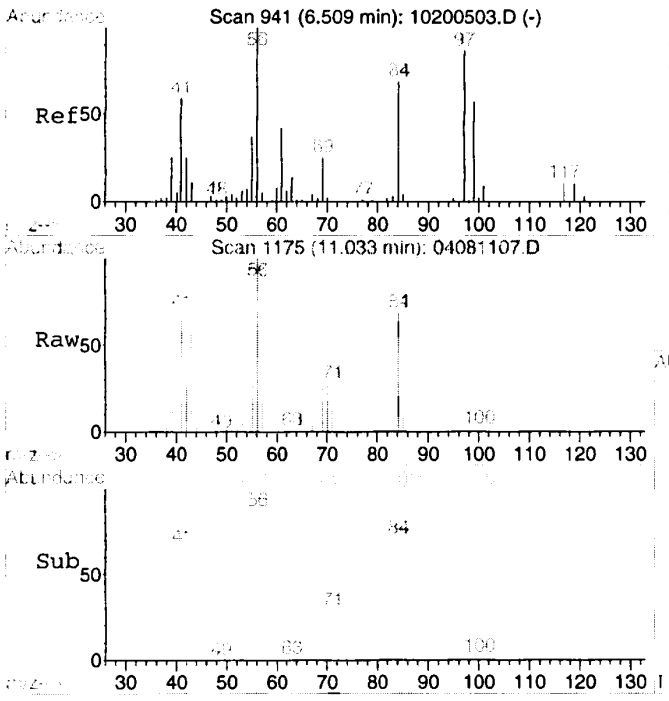


#20
n-Hexane
Concen: 26.35 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04081107.D
Acq: 8 Apr 2011 8:27 pm

Tgt Ion: 57 Resp: 2393380

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.5	1.8	2.8
86	15.5	13.4	20.0

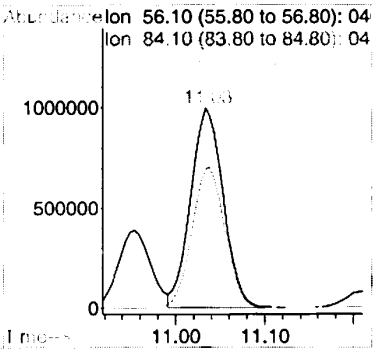


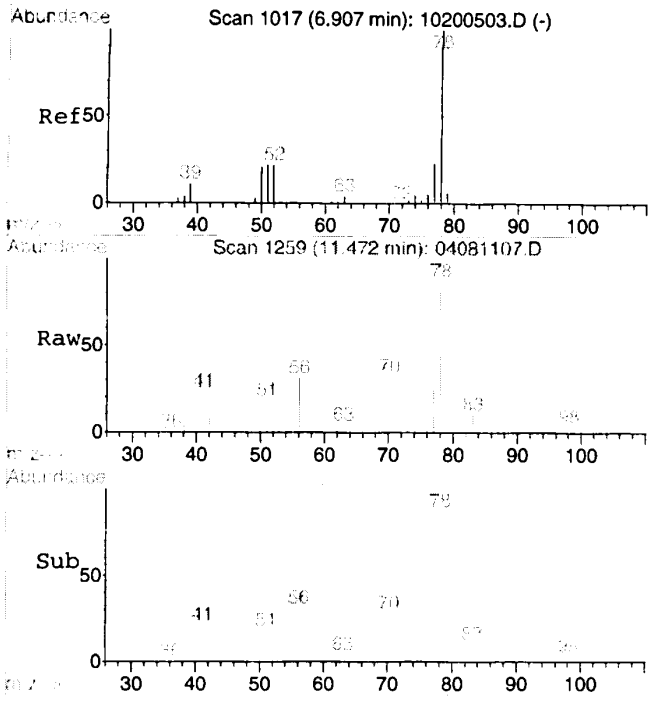


#29
Cyclohexane
Concen: 27.95 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081107.D
Acq: 8 Apr 2011 8:27 pm

Tgt Ion: 56 Resp: 2544036

Ion	Ratio	Lower	Upper
56	100		
84	71.3	72.4	108.6#
41	69.4	43.8	65.8#

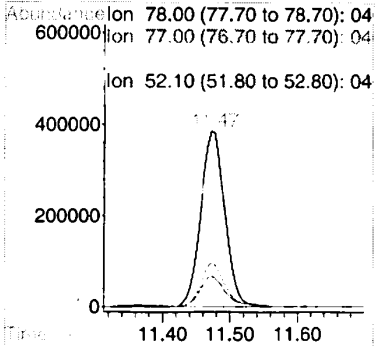


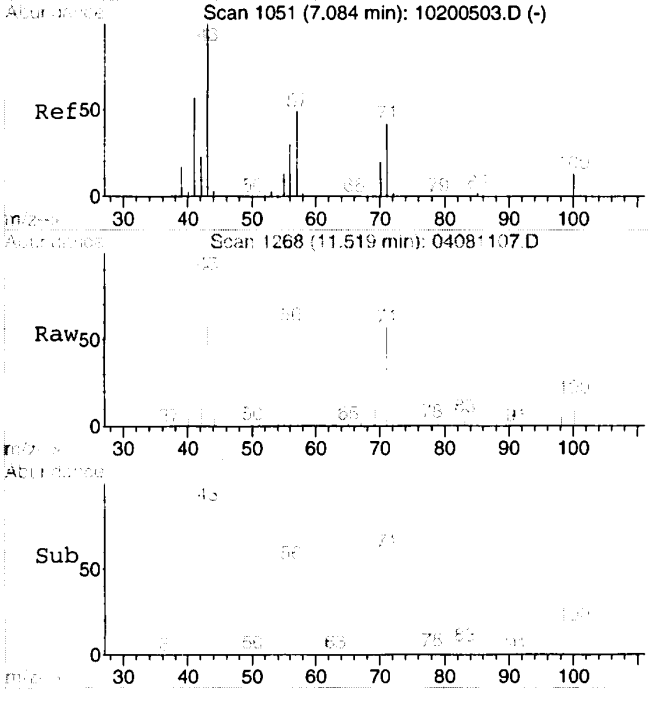


#31
Benzene
Concen: 6.66 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081107.D
Acq: 8 Apr 2011 8:27 pm

Tgt Ion: 78 Resp: 964542

Ion	Ratio	Lower	Upper
78	100		
77	25.6	3.7	43.7
51	22.6	0.0	36.1
52	18.8	0.0	36.0

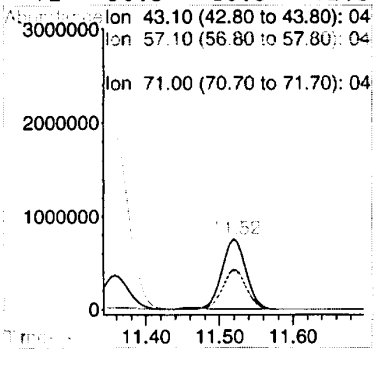


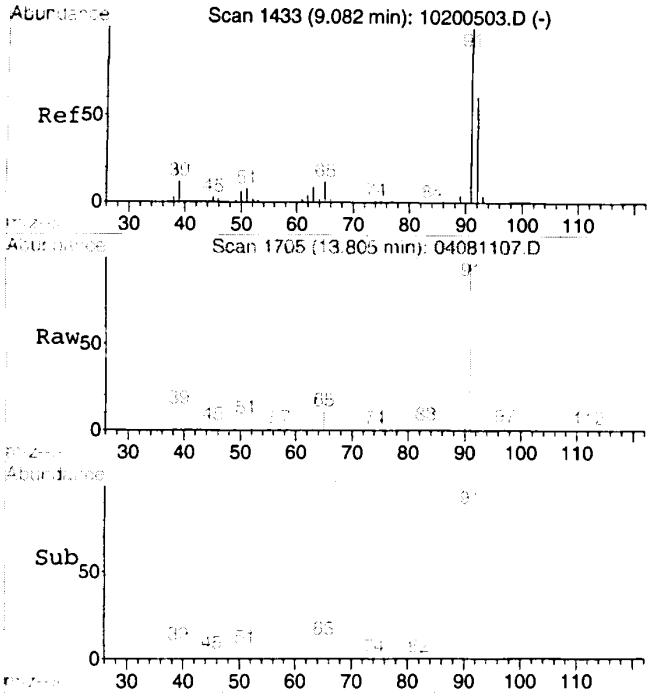


#34
Heptane
Concen: 16.77 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04081107.D
Acq: 8 Apr 2011 8:27 pm

Tgt Ion: 43 Resp: 1724853

Ion	Ratio	Lower	Upper
43	100		
57	58.0	42.2	63.4
100	15.2	17.3	25.9#
71	56.3	48.3	72.5

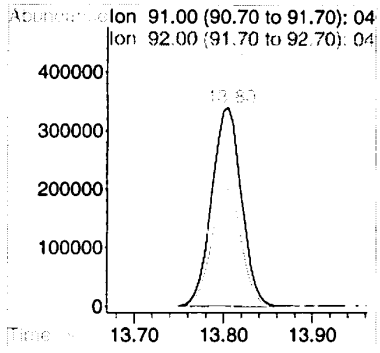


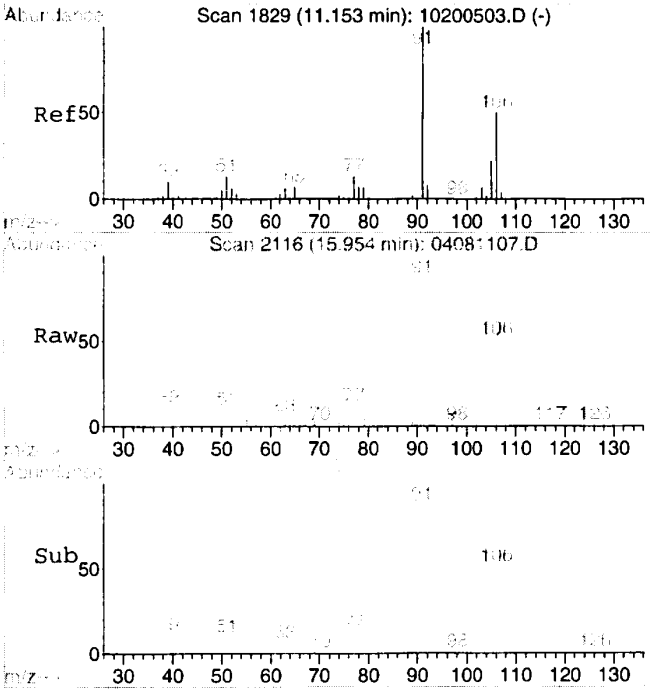


#41
Toluene
Concen: 5.05 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04081107.D
Acq: 8 Apr 2011 8:27 pm

Tgt Ion: 91 Resp: 787482

Ion	Ratio	Lower	Upper
91	100		
92	59.2	40.5	80.5
65	11.5	0.0	31.2

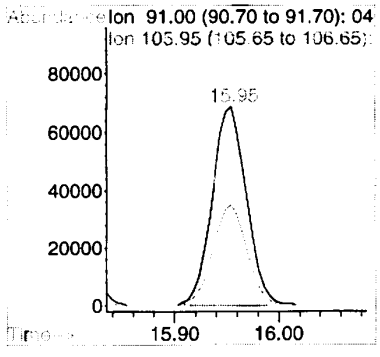




#51
m,p-Xylene
Concen: 1.19 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04081107.D
Acq: 8 Apr 2011 8:27 pm

Tgt Ion: 91 Resp: 157669

Ion	Ratio	Lower	Upper
91	100		
106	50.5	35.6	75.6
51	10.0	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D
Acq On : 8 Apr 2011 8:27 pm
Sample : 1103609-003A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 4
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 160000.00

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	66	91	133	rBV	421258	2305295	16.41%	1.552%
2	6.336	261	277	291	rBV4	45463	187521	1.33%	0.126%
3	7.194	425	441	461	rBV	608073	2057315	14.64%	1.385%
4	7.565	491	512	527	rBV	856658	2641458	18.80%	1.778%
5	8.182	618	630	643	rVB3	72900	238370	1.70%	0.160%
6	8.773	725	743	761	rBV	2610409	7800531	55.52%	5.251%
7	8.930	761	773	788	rVB3	332409	970518	6.91%	0.653%
8	9.087	789	803	824	rVV	1474189	4112743	29.27%	2.768%
9	9.390	847	861	882	rBV	3778328	9460034	67.33%	6.368%
10	9.908	948	960	968	rBV2	132791	366500	2.61%	0.247%
11	10.008	968	979	995	rVB	779079	2065302	14.70%	1.390%
12	10.217	1005	1019	1042	rBV	2844064	7551847	53.75%	5.083%
13	10.687	1098	1109	1114	rBV2	73948	193782	1.38%	0.130%
14	10.766	1114	1124	1127	rVV	1475062	3424038	24.37%	2.305%
15	10.803	1128	1131	1147	rVV	1748592	3724300	26.51%	2.507%
16	10.954	1147	1160	1167	rVV	1766193	4572908	32.55%	3.078%
17	11.033	1167	1175	1197	rVV2	5530513	14050345	100.00%	9.458%
18	11.210	1197	1209	1218	rVV2	448178	1217304	8.66%	0.819%
19	11.357	1218	1237	1250	rVV	4233556	13209429	94.01%	8.892%
20	11.472	1250	1259	1262	rVV2	1558824	3743165	26.64%	2.520%
21	11.524	1262	1269	1290	rVB2	4192726	10514646	74.84%	7.078%
22	11.864	1323	1334	1350	rBV	2197084	5080764	36.16%	3.420%
23	12.199	1386	1398	1405	rBV	366033	862459	6.14%	0.581%
24	12.283	1405	1414	1424	rVV	959608	2603970	18.53%	1.753%
25	12.393	1425	1435	1457	rVV	5394970	13427499	95.57%	9.039%
26	12.576	1457	1470	1474	rVV2	250593	725255	5.16%	0.488%
27	12.623	1474	1479	1495	rVB	312854	745278	5.30%	0.502%
28	12.795	1499	1512	1525	rBV2	1251852	3196319	22.75%	2.152%
29	12.942	1525	1540	1544	rVV3	821730	2443873	17.39%	1.645%
30	12.989	1545	1549	1567	rVB2	912770	2220003	15.80%	1.494%
31	13.146	1569	1579	1596	rBV2	410215	1293434	9.21%	0.871%
32	13.266	1596	1602	1608	rVV2	80752	200365	1.43%	0.135%
33	13.339	1608	1616	1631	rVB	489408	1237951	8.81%	0.833%
34	13.569	1646	1660	1667	rBV2	644270	1794541	12.77%	1.208%
35	13.669	1673	1679	1693	rVB	557213	1269944	9.04%	0.855%
36	13.805	1693	1705	1721	rVB	913067	2493809	17.75%	1.679%
37	14.077	1742	1757	1769	rBV4	300844	868911	6.18%	0.585%
38	14.197	1769	1780	1790	rBV4	112580	333896	2.38%	0.225%
39	14.286	1790	1797	1804	rVB2	86606	177429	1.26%	0.119%
40	14.825	1887	1900	1907	rBV	310518	856285	6.09%	0.576%
41	14.887	1907	1912	1918	rVV	176114	408075	2.90%	0.275%
42	14.945	1918	1923	1930	rVV5	87413	225296	1.60%	0.152%
43	15.018	1930	1937	1950	rVB3	116327	311487	2.22%	0.210%

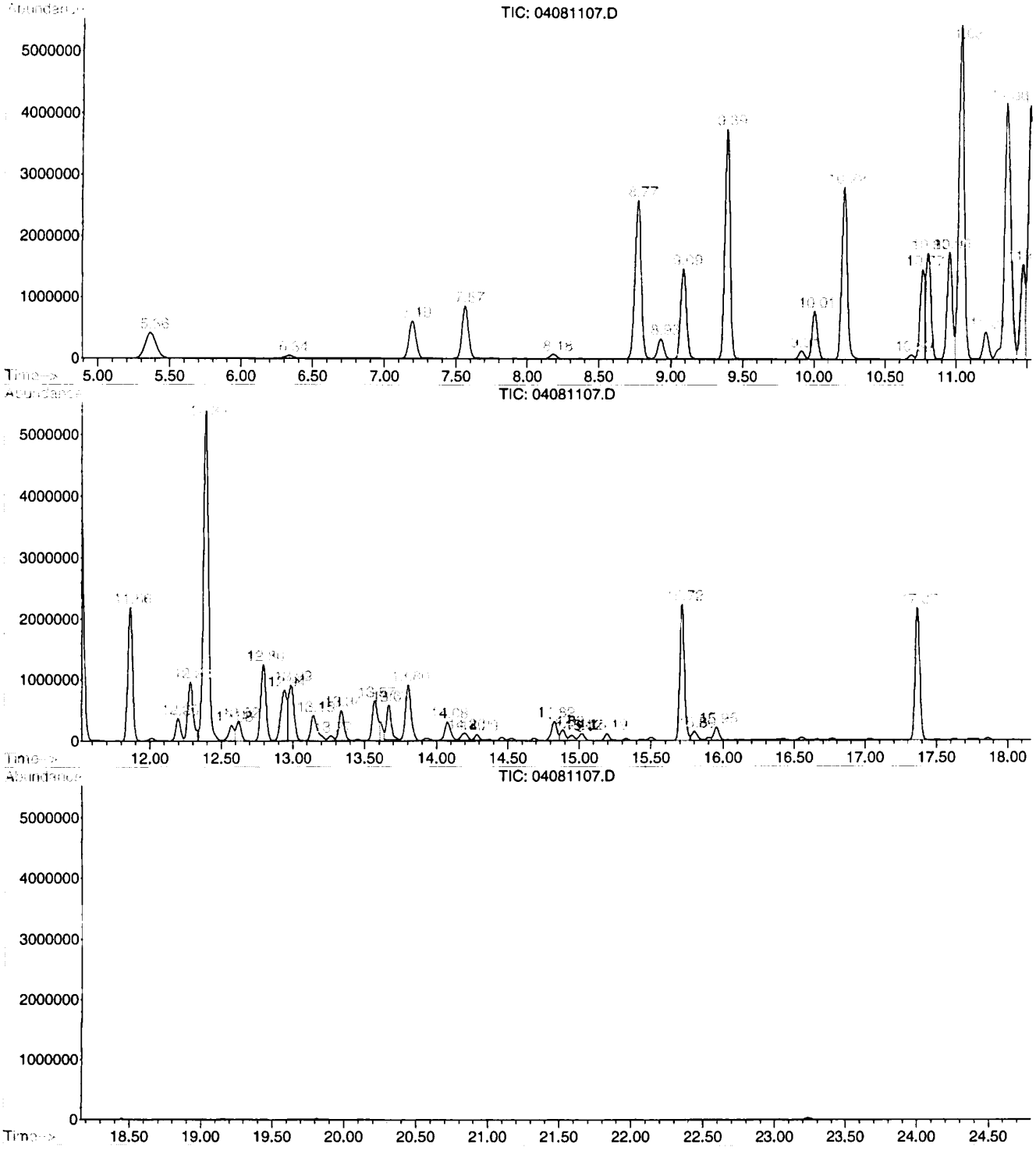
44	15.191	1959	1970	1980	rBV3	117582	288287	2.05%	0.194%
45	15.719	2059	2071	2081	rBV	2246118	5255784	37.41%	3.538%
46	15.803	2082	2087	2099	rVV2	145261	368518	2.62%	0.248%
47	15.954	2109	2116	2128	rVB	212183	513014	3.65%	0.345%
48	17.366	2373	2386	2403	rBV	2194817	4948491	35.22%	3.331%

Sum of corrected areas: 148558288

04081107.D 040711V1.M Thu Apr 14 16:50:06 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040811\04081107.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 8:27 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-003A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 4
Quant File :040711V1.RES (RTE Integrator)



04081107.D 040711V1.M Thu Apr 14 16:50:07 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D
Acq On : 8 Apr 2011 8:27 pm
Sample : 1103609-003A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 4
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 160000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	8.42 ppbv	2305300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	7.51 ppbv	2057320	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Butane, 2-methyl-	72	C5H12	000078-78-4	87
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol	72	C4H8O	000627-27-0	9
5	Azetidine	57	C3H7N	000503-29-7	9

****

Peak Number 3 Pentane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.57	9.64 ppbv	2641460	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D Vial: 4
Acq On : 8 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- $$ Isohexan Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	28.48 ppbv	7800530	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	47

****

Peak Number 5 Cyclopentane $$ Pentamethylene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	3.54 ppbv	970518	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	58
2	Cyclopentane	70	C5H10	000287-92-3	47
3	Cyclobutanone	70	C4H6O	001191-95-3	40
4	Cyclobutane, methyl-	70	C5H10	000598-61-8	28
5	1-Pentene	70	C5H10	000109-67-1	25

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	15.01 ppbv	4112740	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	56
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D Vial: 4
Acq On : 8 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	7.54 ppbv	2065300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	27.57 ppbv	7551850	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
3	Aziridine, 1-(2-buten-2-yl)-	97	C6H11N	000000-00-0	56
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 9 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	16.69 ppbv	4572910	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D
Acq On : 8 Apr 2011 8:27 pm
Sample : 1103609-003A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 4
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 160000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	4.44 ppbv	1217300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	52
3	1-Butene, 2-ethyl-3-methyl-	98	C7H14	007357-93-9	43
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	35
5	1-Pentene, 3,3-dimethyl-	98	C7H14	003404-73-7	35

****

Peak Number 11 Hexane, 2,2-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	32.50 ppbv	13209400	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	64
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.41 ppbv	2603970	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
2	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	43
4	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	42
5	1-Pentanol, 2,2-dimethyl-	116	C7H16O	002370-12-9	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D
Acq On : 8 Apr 2011 8:27 pm
Sample : 1103609-003A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 4
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 160000.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	33.04 ppbv	13427500	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	80
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 14 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	7.86 ppbv	3196320	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	78
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	6.01 ppbv	2443870	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	64
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	59
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081107.D Vial: 4
Acq On : 8 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Pentane, 2,3,3-trimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	5.46 ppbv	2220000	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	40
2	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	38
3	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	36
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	36
5	Pentane, 3-ethyl-2-methyl- $$ 2-Met	114	C8H18	000609-26-7	23

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.18 ppbv	1293430	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	64
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	49
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47

****

Peak Number 18 Hexane, 2,2,5-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	3.05 ppbv	1237950	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	90
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83

Data File : C:\HPCHEM\1\DATA\040811\04081107.D Vial: 4
Acq On : 8 Apr 2011 8:27 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.42 ppbv	1794540	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 20 Heptane, 2,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.12 ppbv	1269940	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
2	Octane	114	C8H18	000111-65-9	83
3	Octane	114	C8H18	000111-65-9	81
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 8:27 pm
Data File: C:\HPCHEM\1\DATA\040811\04081107.D
Name: 1103609-003A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	8.4	ppbv	2305300	ISTD01	10.77	3424040	12.5
Butane, 2-methyl-	7.19	7.5	ppbv	2057320	ISTD01	10.77	3424040	12.5
Pentane	7.57	9.6	ppbv	2641460	ISTD01	10.77	3424040	12.5
Pentane, 2-methyl- $	8.77	28.5	ppbv	7800530	ISTD01	10.77	3424040	12.5
Cyclopentane $$ Pent	8.93	3.5	ppbv	970518	ISTD01	10.77	3424040	12.5
Pentane, 3-methyl-	9.09	15.0	ppbv	4112740	ISTD01	10.77	3424040	12.5
Pentane, 2,4-dimethy	10.01	7.5	ppbv	2065300	ISTD01	10.77	3424040	12.5
Cyclopentane, methyl	10.22	27.6	ppbv	7551850	ISTD01	10.77	3424040	12.5
Pentane, 2,3-dimethy	10.95	16.7	ppbv	4572910	ISTD01	10.77	3424040	12.5
Cyclopentane, 1,1-di	11.21	4.4	ppbv	1217300	ISTD01	10.77	3424040	12.5
Hexane, 2,2-dimethyl	11.36	32.5	ppbv	13209400	ISTD02	11.86	5080760	12.5
Hexane, 2,4-dimethyl	12.28	6.4	ppbv	2603970	ISTD02	11.86	5080760	12.5
Cyclohexane, methyl-	12.39	33.0	ppbv	13427500	ISTD02	11.86	5080760	12.5
Pentane, 2,3,4-trime	12.80	7.9	ppbv	3196320	ISTD02	11.86	5080760	12.5
Heptane, 2-methyl-	12.94	6.0	ppbv	2443870	ISTD02	11.86	5080760	12.5
Pentane, 2,3,3-trime	12.99	5.5	ppbv	2220000	ISTD02	11.86	5080760	12.5
Heptane, 3-methyl-	13.15	3.2	ppbv	1293430	ISTD02	11.86	5080760	12.5
Hexane, 2,2,5-trimet	13.34	3.0	ppbv	1237950	ISTD02	11.86	5080760	12.5
Cyclohexane, 1,3-dim	13.57	4.4	ppbv	1794540	ISTD02	11.86	5080760	12.5
Heptane, 2,4-dimethy	13.67	3.1	ppbv	1269940	ISTD02	11.86	5080760	12.5

04081107.D 040711V1.M Thu Apr 14 16:50:08 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:11 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

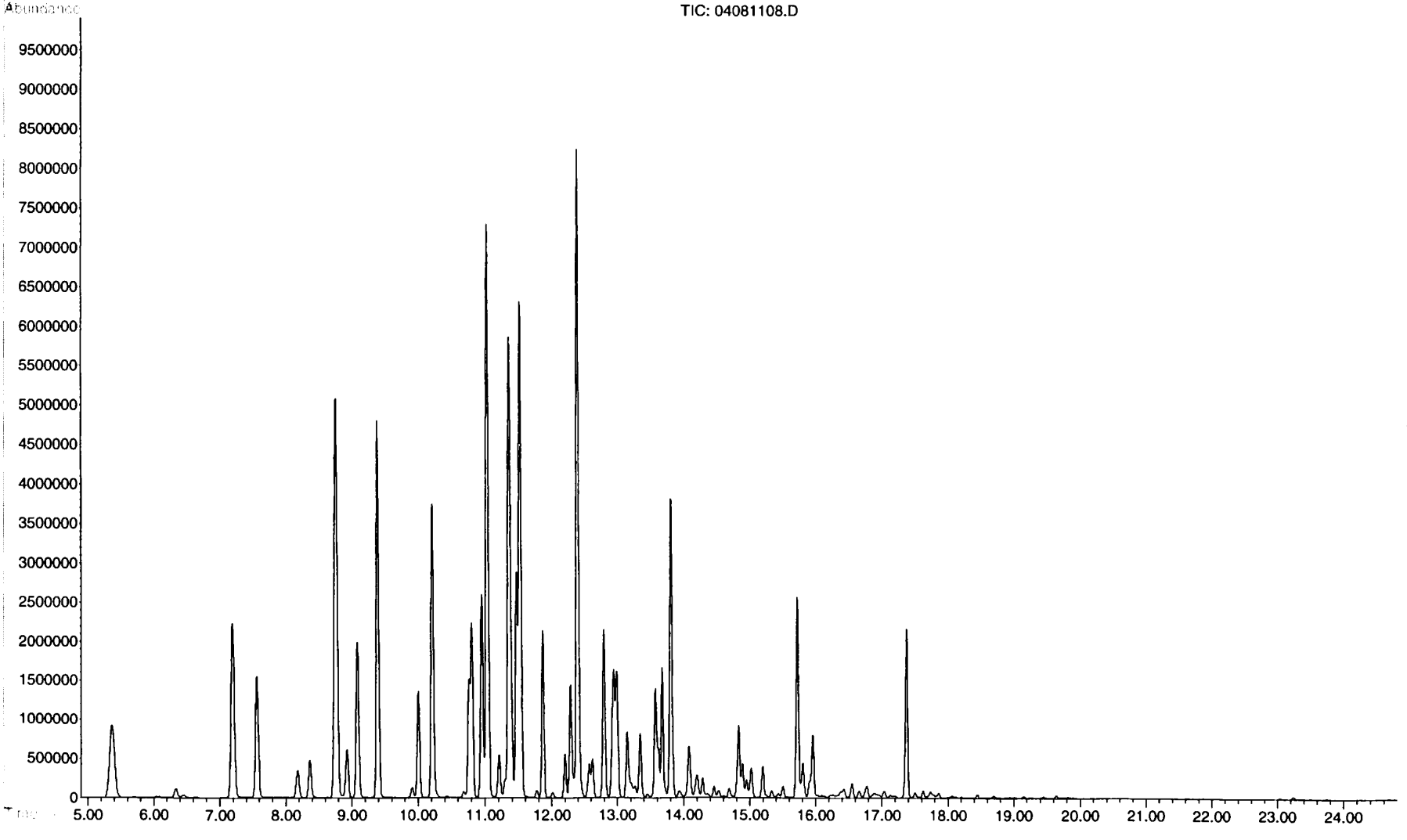
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	653875	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2190810	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1609244	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	988758	12.23	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.84%				
Target Compounds							Qvalue
14) Acetone	8.36	43	931146	12.50	ppbv	#	92
17) Methylene chloride	8.93	49	89795	1.36	ppbv		93
20) n-Hexane	9.39	57	3052961	33.16	ppbv		99
29) Cyclohexane	11.03	56	3460013	37.51	ppbv	#	80
31) Benzene	11.47	78	2104248	14.34	ppbv		94
34) Heptane	11.52	43	2710041	27.14	ppbv	#	93
41) Toluene	13.80	91	3384298	22.34	ppbv		100
50) Ethylbenzene	15.80	91	369655	2.20	ppbv		95
51) m,p-Xylene	15.95	91	576232	4.49	ppbv		94
52) o-Xylene	16.55	91	142148	1.10	ppbv	#	87

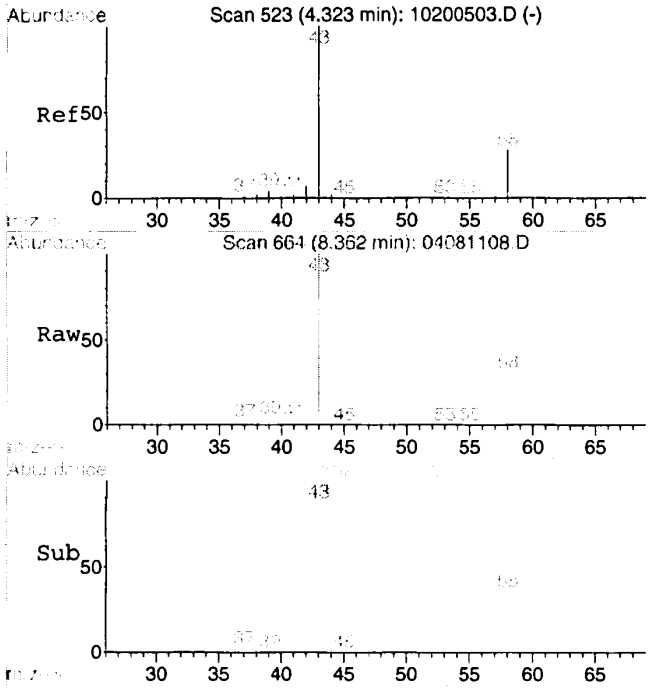
(#) = qualifier out of range (m) = manual integration
04081108.D 040711V1.M Thu Apr 14 16:50:15 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:11 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

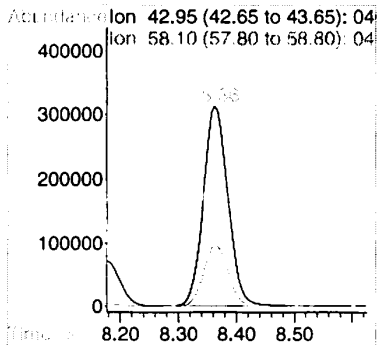


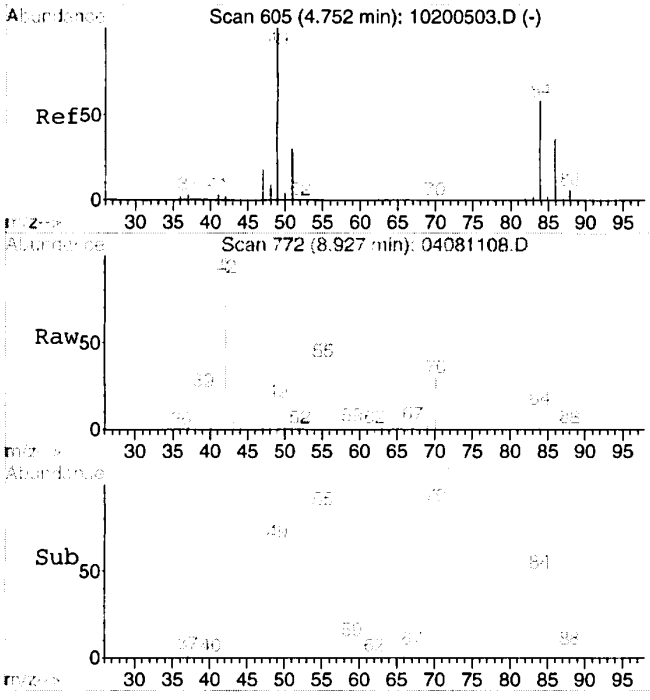


#14
Acetone
Concen: 12.50 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 43 Resp: 931146

Ion	Ratio	Lower	Upper
43	100		
58	31.0	22.0	33.0
39	4.1	6.5	9.7#

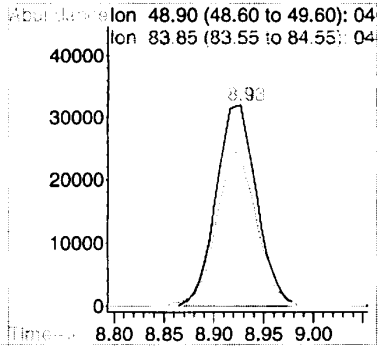


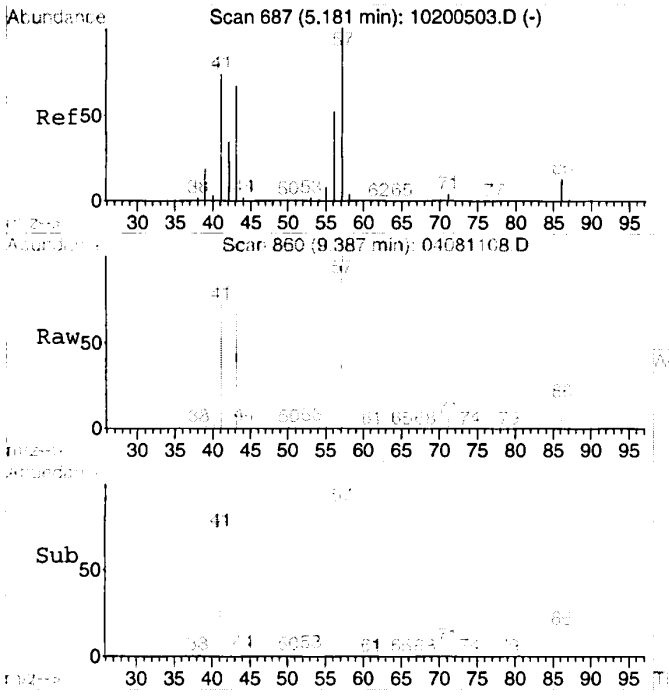


#17
Methylene chloride
Concen: 1.36 ppbv
RT: 8.93 min Scan# 772
Delta R.T. -0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 49 Resp: 89795

Ion	Ratio	Lower	Upper
49	100		
84	76.6	65.4	98.2
86	47.4	42.3	63.5

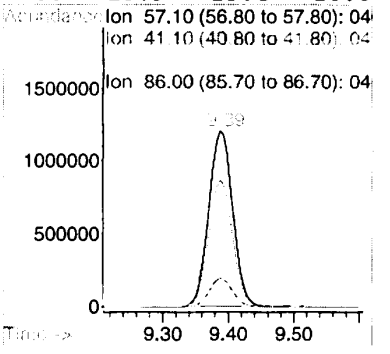


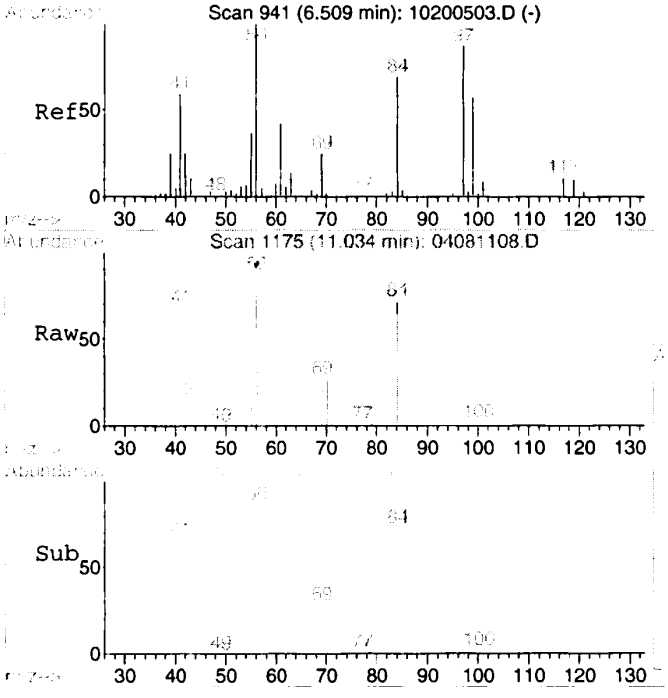


#20
n-Hexane
Concen: 33.16 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 57 Resp: 3052961

Ion	Ratio	Lower	Upper
57	100		
41	72.4	57.2	85.8
53	2.4	1.8	2.8
86	15.9	13.4	20.0

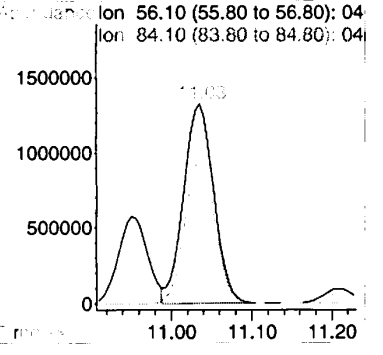


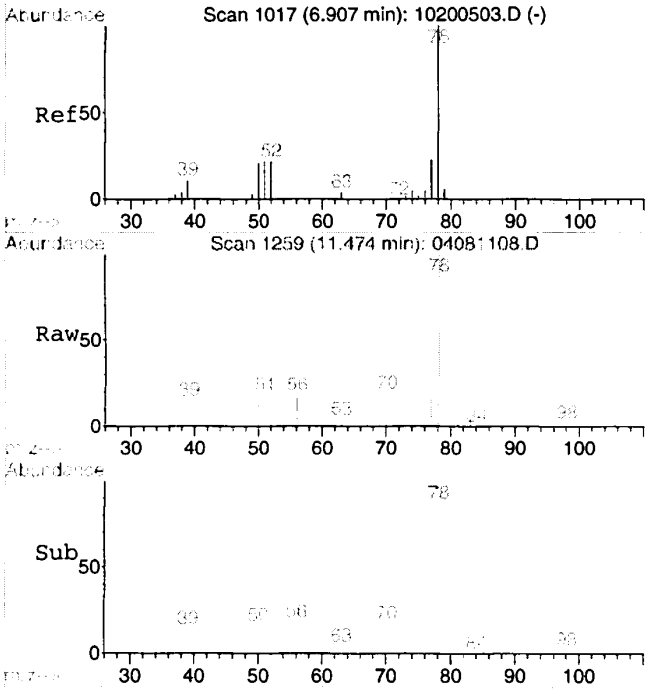


#29
Cyclohexane
Concen: 37.51 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 56 Resp: 3460013

Ion	Ratio	Lower	Upper
56	100		
84	71.8	72.4	108.6#
41	68.7	43.8	65.8#

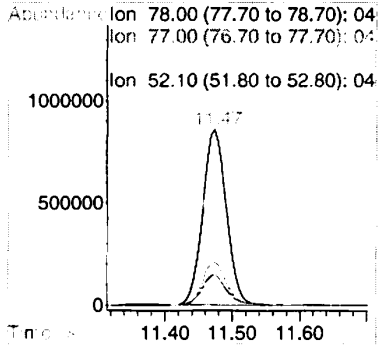


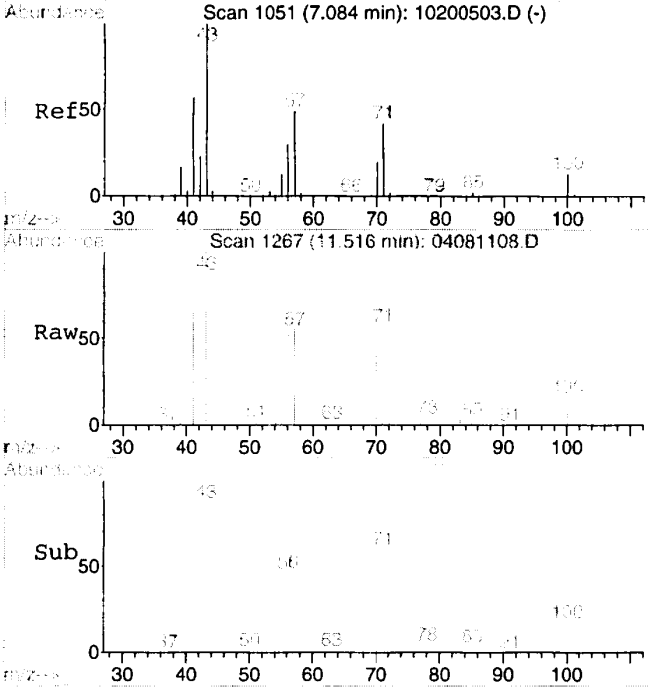


#31
Benzene
Concen: 14.34 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 78 Resp: 2104248

Ion	Ratio	Lower	Upper
78	100		
77	25.2	3.7	43.7
51	20.6	0.0	36.1
52	18.1	0.0	36.0

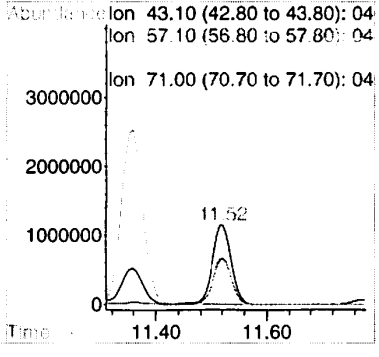


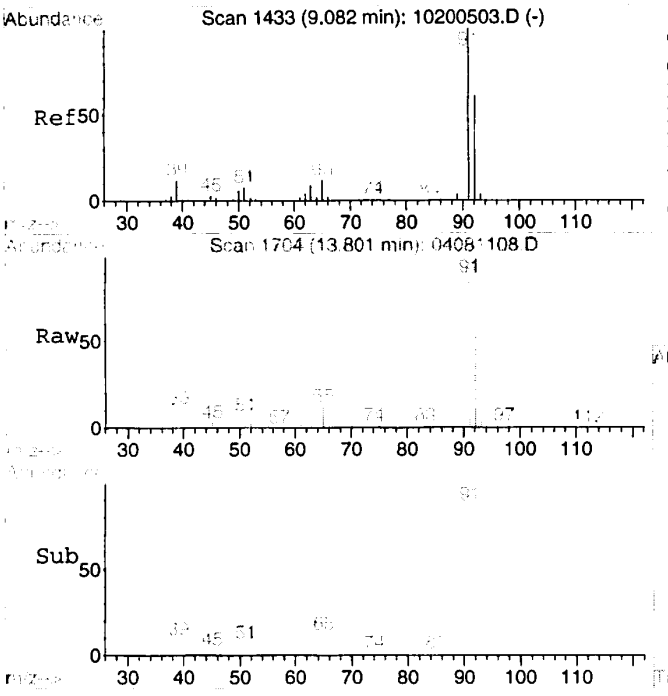


#34
Heptane
Concen: 27.14 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.01 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 43 Resp: 2710041

Ion	Ratio	Lower	Upper
43	100		
57	57.7	42.2	63.4
100	15.5	17.3	25.9#
71	56.9	48.3	72.5

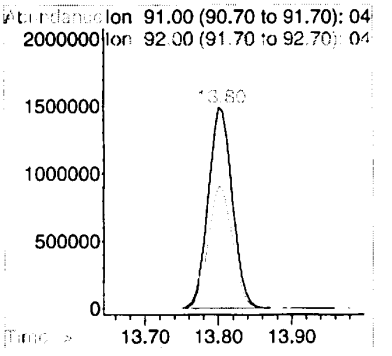


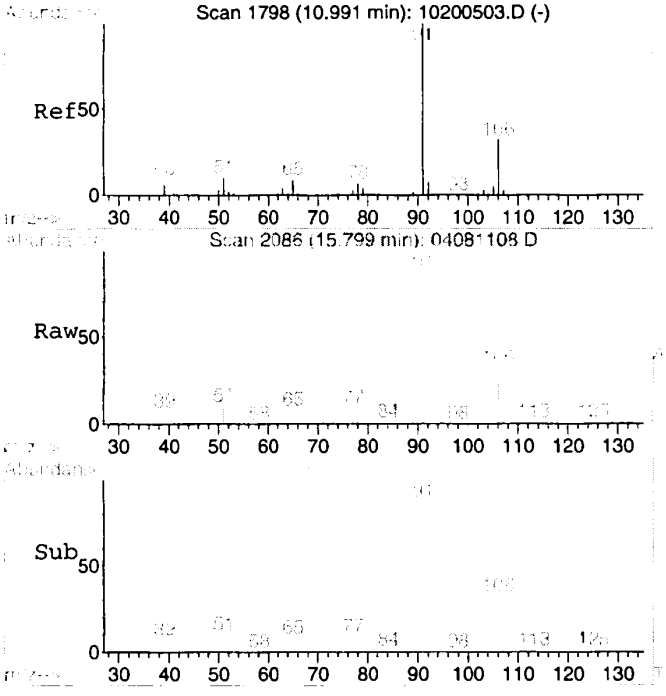


#41
Toluene
Concen: 22.34 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 91 Resp: 3384298

Ion	Ratio	Lower	Upper
91	100		
92	60.5	40.5	80.5
65	11.8	0.0	31.2

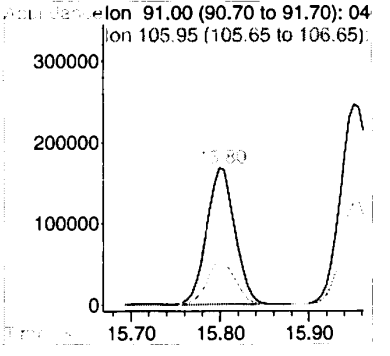


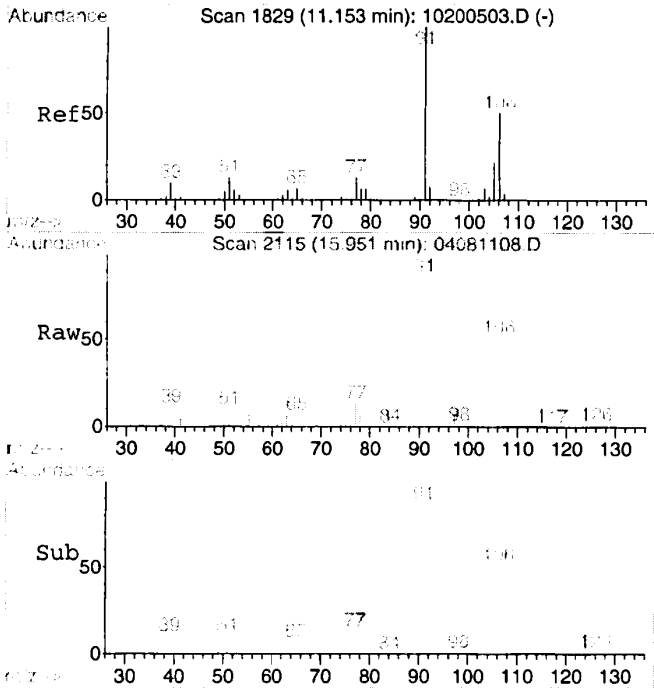


#50
Ethylbenzene
Concen: 2.20 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. -0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 91 Resp: 369655

Ion	Ratio	Lower	Upper
91	100		
106	32.0	14.9	54.9
51	10.7	0.0	33.1

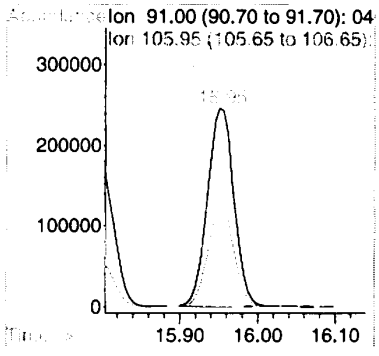


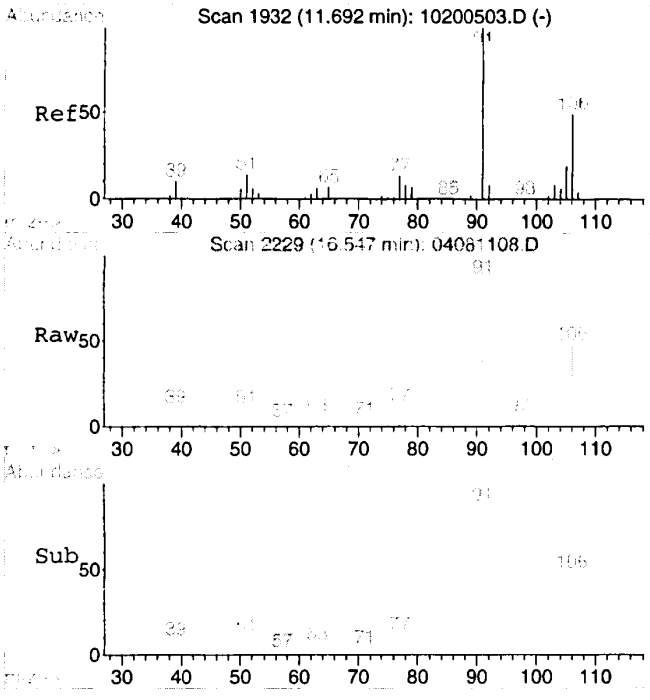


#51
m,p-Xylene
Concen: 4.49 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 91 Resp: 576232

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	10.7	0.0	29.6

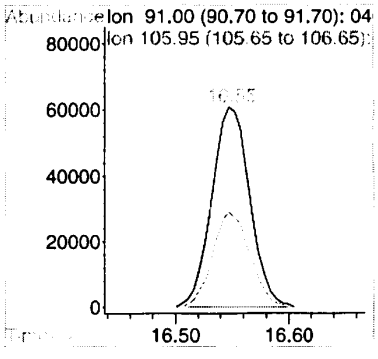




#52
o-Xylene
Concen: 1.10 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. -0.00 min
Lab File: 04081108.D
Acq: 8 Apr 2011 9:08 pm

Tgt Ion: 91 Resp: 142148

Ion	Ratio	Lower	Upper
91	100		
106	46.7	41.0	61.6
51	11.4	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.365	62	91	132	rBV	923018	5032734	23.77%	2.093%
2	6.338	261	277	289	rBV2	120061	445057	2.10%	0.185%
3	7.190	423	440	471	rBV	2237097	7811457	36.89%	3.249%
4	7.562	494	511	533	rBV	1550239	4879881	23.05%	2.030%
5	8.174	614	628	650	rVB2	351982	1175640	5.55%	0.489%
6	8.362	650	664	688	rVB	485059	1464909	6.92%	0.609%
7	8.765	723	741	759	rBV2	5093154	16891341	79.78%	7.026%
8	8.927	761	772	788	rVB	614797	1794477	8.48%	0.746%
9	9.084	788	802	820	rBV	1993723	5520377	26.07%	2.296%
10	9.387	847	860	888	rBV	4802770	12112885	57.21%	5.038%
11	9.910	947	960	967	rBV2	140249	381302	1.80%	0.159%
12	10.004	967	978	995	rVB	1359583	3558527	16.81%	1.480%
13	10.213	1003	1018	1040	rBV	3755396	9976715	47.12%	4.150%
14	10.684	1097	1108	1113	rBV2	87438	219994	1.04%	0.092%
15	10.768	1113	1124	1126	rVV	1520746	3387918	16.00%	1.409%
16	10.804	1127	1131	1146	rVV	2242577	4961789	23.44%	2.064%
17	10.951	1146	1159	1166	rVV	2602992	6666482	31.49%	2.773%
18	11.034	1166	1175	1196	rVV2	7316547	19035422	89.91%	7.918%
19	11.207	1197	1208	1217	rVV	554074	1489913	7.04%	0.620%
20	11.359	1217	1237	1250	rVV	5878945	18517171	87.46%	7.702%
21	11.469	1250	1258	1262	rVV2	2887210	6994672	33.04%	2.909%
22	11.521	1262	1268	1300	rVB2	6326871	15860328	74.91%	6.597%
23	11.772	1306	1316	1323	rBV	97746	233193	1.10%	0.097%
24	11.861	1323	1333	1349	rVV	2142257	4928505	23.28%	2.050%
25	12.195	1384	1397	1405	rBV2	560237	1345384	6.35%	0.560%
26	12.284	1405	1414	1422	rBV	1388337	3465269	16.37%	1.441%
27	12.389	1424	1434	1456	rVB	8246435	21172192	100.00%	8.806%
28	12.572	1457	1469	1474	rBV2	420824	1191757	5.63%	0.496%
29	12.619	1474	1478	1495	rVB	500740	1156922	5.46%	0.481%
30	12.797	1497	1512	1526	rBV2	2155314	5514663	26.05%	2.294%
31	12.943	1526	1540	1544	rBV4	1624627	4774925	22.55%	1.986%
32	13.147	1567	1579	1596	rBV2	837268	2758272	13.03%	1.147%
33	13.341	1607	1616	1630	rVB	810490	2036055	9.62%	0.847%
34	13.571	1644	1660	1667	rBV	1383565	3832898	18.10%	1.594%
35	13.670	1673	1679	1693	rVB	1617237	3525128	16.65%	1.466%
36	13.801	1693	1704	1720	rVB	3814731	9454519	44.66%	3.933%
37	13.932	1720	1729	1741	rBV4	81785	247345	1.17%	0.103%
38	14.073	1741	1756	1769	rBV3	648932	1886105	8.91%	0.785%
39	14.199	1769	1780	1789	rBV6	259601	766972	3.62%	0.319%
40	14.282	1789	1796	1805	rVB	218763	449133	2.12%	0.187%
41	14.455	1821	1829	1836	rBV	145127	332976	1.57%	0.138%
42	14.528	1836	1843	1852	rVB2	86100	220315	1.04%	0.092%
43	14.685	1865	1873	1886	rBV2	123533	312698	1.48%	0.130%

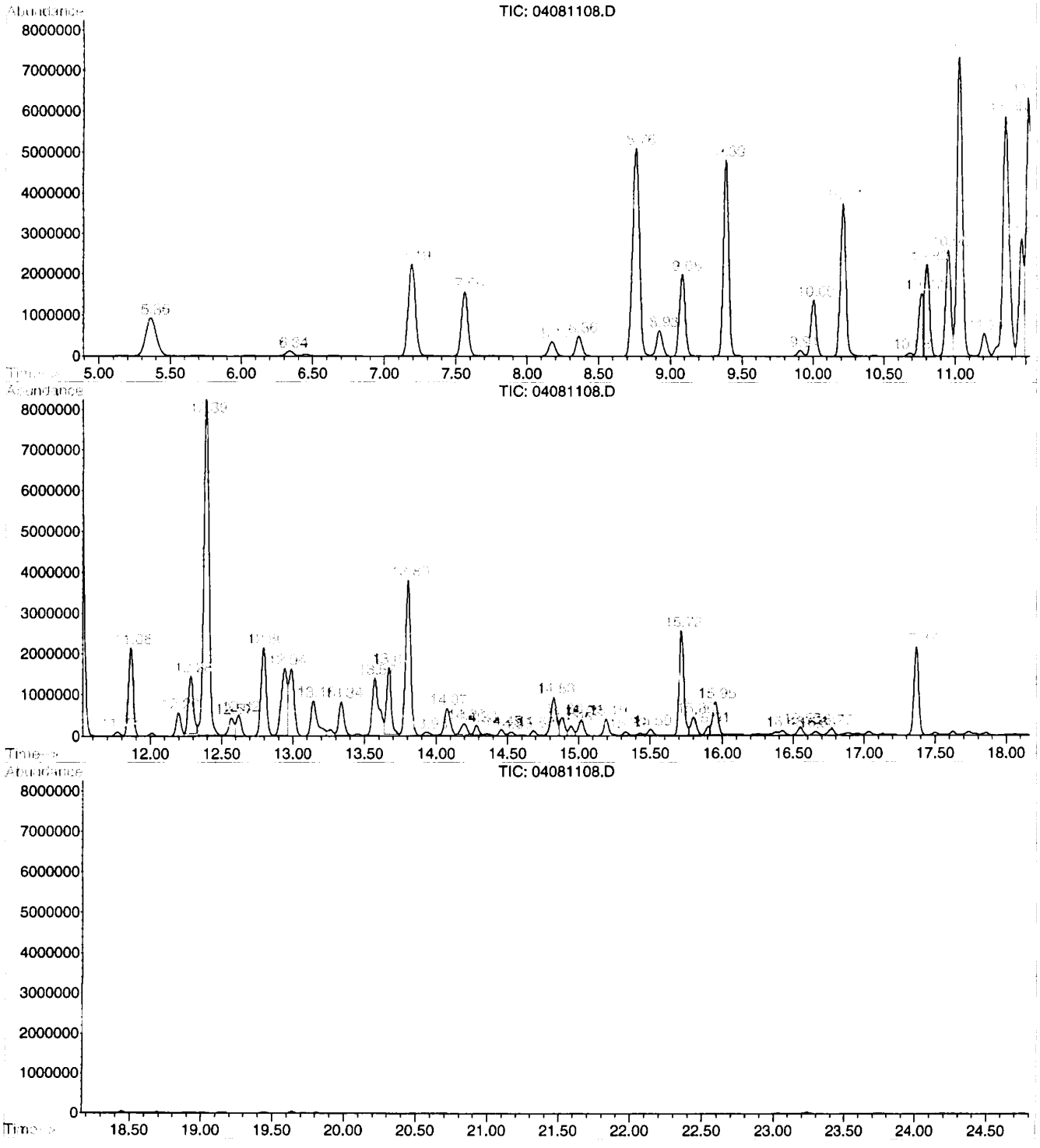
44	14.826	1886	1900	1907	rVV	926262	2518793	11.90%	1.048%
45	14.884	1907	1911	1918	rVV2	439980	1022583	4.83%	0.425%
46	14.947	1918	1923	1929	rVV3	234772	565027	2.67%	0.235%
47	15.020	1929	1937	1953	rVB2	380506	1030229	4.87%	0.429%
48	15.192	1958	1970	1987	rBV	409934	1043319	4.93%	0.434%
49	15.328	1987	1996	2006	rBV2	90554	224426	1.06%	0.093%
50	15.501	2021	2029	2039	rVB	146558	357583	1.69%	0.149%
51	15.715	2056	2070	2080	rBV	2570449	6068046	28.66%	2.524%
52	15.804	2081	2087	2098	rVB2	434819	1114304	5.26%	0.463%
53	15.909	2098	2107	2108	rBV2	206560	387613	1.83%	0.161%
54	15.951	2109	2115	2127	rVB	778208	1945587	9.19%	0.809%
55	16.427	2201	2206	2217	rVB2	107396	252129	1.19%	0.105%
56	16.547	2218	2229	2240	rVB	187342	479583	2.27%	0.199%
57	16.657	2240	2250	2260	rBV4	85062	238940	1.13%	0.099%
58	16.772	2260	2272	2281	rVB6	147133	449130	2.12%	0.187%
59	17.368	2370	2386	2401	rBV	2165375	4937158	23.32%	2.054%

Sum of corrected areas: 240418667

04081108.D 040711V1.M Thu Apr 14 16:50:20 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040811\04081108.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 9:08 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-004A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 6
Quant File :040711V1.RES (RTE Integrator)



04081108.D 040711V1.M Thu Apr 14 16:50:20 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	18.57 ppbv	5032730	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	28.82 ppbv	7811460	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-2-ol	72	C4H8O	000598-32-3	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 3 Pentane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	18.00 ppbv	4879880	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	38

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.17	4.34 ppbv	1175640	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	62.32 ppbv	16891300	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	58

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	20.37 ppbv	5520380	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 3,4-dimethyl- $$ 3,4-Dimeth	114	C8H18	000583-48-2	43
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	13.13 ppbv	3558530	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59

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Peak Number 8 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	36.81 ppbv	9976720	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	24.60 ppbv	6666480	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	5.50 ppbv	1489910	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	72
3	1-Heptene, 6-methyl- $$ 6-Methyl-1-	112	C8H16	005026-76-6	40
4	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37

****

Peak Number 11 Pentane, 2,2,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	46.96 ppbv	18517200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Butane, 2,2,3,3-tetramethyl- $$ Eth	114	C8H18	000594-82-1	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

****

Peak Number 12 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	8.79 ppbv	3465270	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
2	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	38
4	Cyclobutane, 1,2-diethyl-, trans-	112	C8H16	019341-98-1	38
5	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	38

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	53.70 ppbv	21172200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	59

****

Peak Number 14 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	13.99 ppbv	5514660	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	64
2	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	59
3	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	56
4	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	56
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	53

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	12.11 ppbv	4774930	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	74
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
4	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	58
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	52

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	7.00 ppbv	2758270	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	47

****

Peak Number 17 Hexane, 2,2,4-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	5.16 ppbv	2036060	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
2	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	78

****

Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	9.72 ppbv	3832900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91

Data File : C:\HPCHEM\1\DATA\040811\04081108.D Vial: 6
Acq On : 8 Apr 2011 9:08 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 8000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	8.94 ppbv	3525130	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	83
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	78
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	78

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	5.19 ppbv	2518790	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 9:08 pm
Data File: C:\HPCHEM\1\DATA\040811\04081108.D
Name: 1103609-004A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	18.6	ppbv	5032730	ISTD01	10.76	3387920	12.5
Butane, 2-methyl-	7.19	28.8	ppbv	7811460	ISTD01	10.76	3387920	12.5
Pentane	7.56	18.0	ppbv	4879880	ISTD01	10.76	3387920	12.5
Butane, 2,2-dimethyl	8.17	4.3	ppbv	1175640	ISTD01	10.76	3387920	12.5
Pentane, 2-methyl-	8.76	62.3	ppbv	16891300	ISTD01	10.76	3387920	12.5
Pentane, 3-methyl-	9.08	20.4	ppbv	5520380	ISTD01	10.76	3387920	12.5
Pentane, 2,4-dimethy	10.00	13.1	ppbv	3558530	ISTD01	10.76	3387920	12.5
Cyclopentane, methyl	10.21	36.8	ppbv	9976720	ISTD01	10.76	3387920	12.5
Pentane, 2,3-dimethy	10.95	24.6	ppbv	6666480	ISTD01	10.76	3387920	12.5
Cyclopentane, 1,1-di	11.21	5.5	ppbv	1489910	ISTD01	10.76	3387920	12.5
Pentane, 2,2,4-trime	11.36	47.0	ppbv	18517200	ISTD02	11.86	4928510	12.5
Hexane, 2,4-dimethyl	12.28	8.8	ppbv	3465270	ISTD02	11.86	4928510	12.5
Cyclohexane, methyl-	12.39	53.7	ppbv	21172200	ISTD02	11.86	4928510	12.5
Pentane, 2,3,4-trime	12.80	14.0	ppbv	5514660	ISTD02	11.86	4928510	12.5
Heptane, 2-methyl-	12.94	12.1	ppbv	4774930	ISTD02	11.86	4928510	12.5
Heptane, 3-methyl-	13.15	7.0	ppbv	2758270	ISTD02	11.86	4928510	12.5
Hexane, 2,2,4-trimet	13.34	5.2	ppbv	2036060	ISTD02	11.86	4928510	12.5
Cyclohexane, 1,3-dim	13.57	9.7	ppbv	3832900	ISTD02	11.86	4928510	12.5
Octane	13.67	8.9	ppbv	3525130	ISTD02	11.86	4928510	12.5
Cyclohexane, ethyl-	14.83	5.2	ppbv	2518790	ISTD03	15.72	6068050	12.5

04081108.D 040711V1.M Thu Apr 14 16:50:21 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081109.D Vial: 7
Acq On : 8 Apr 2011 9:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:11 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	635874	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2252357	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1636162	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1008276	12.27	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.16%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	84545	1.31	ppbv		92
20) n-Hexane*	9.39	57	1438776	16.07	ppbv		97
29) Cyclohexane*	11.04	56	1399292	15.60	ppbv	#	80
31) Benzene*	11.48	78	749845	5.25	ppbv		95
34) Heptane*	11.52	43	694025	6.76	ppbv	#	92
41) Toluene*	13.80	91	904943	5.81	ppbv		98
51) m,p-Xylene	15.95	91	146207	1.12	ppbv		94

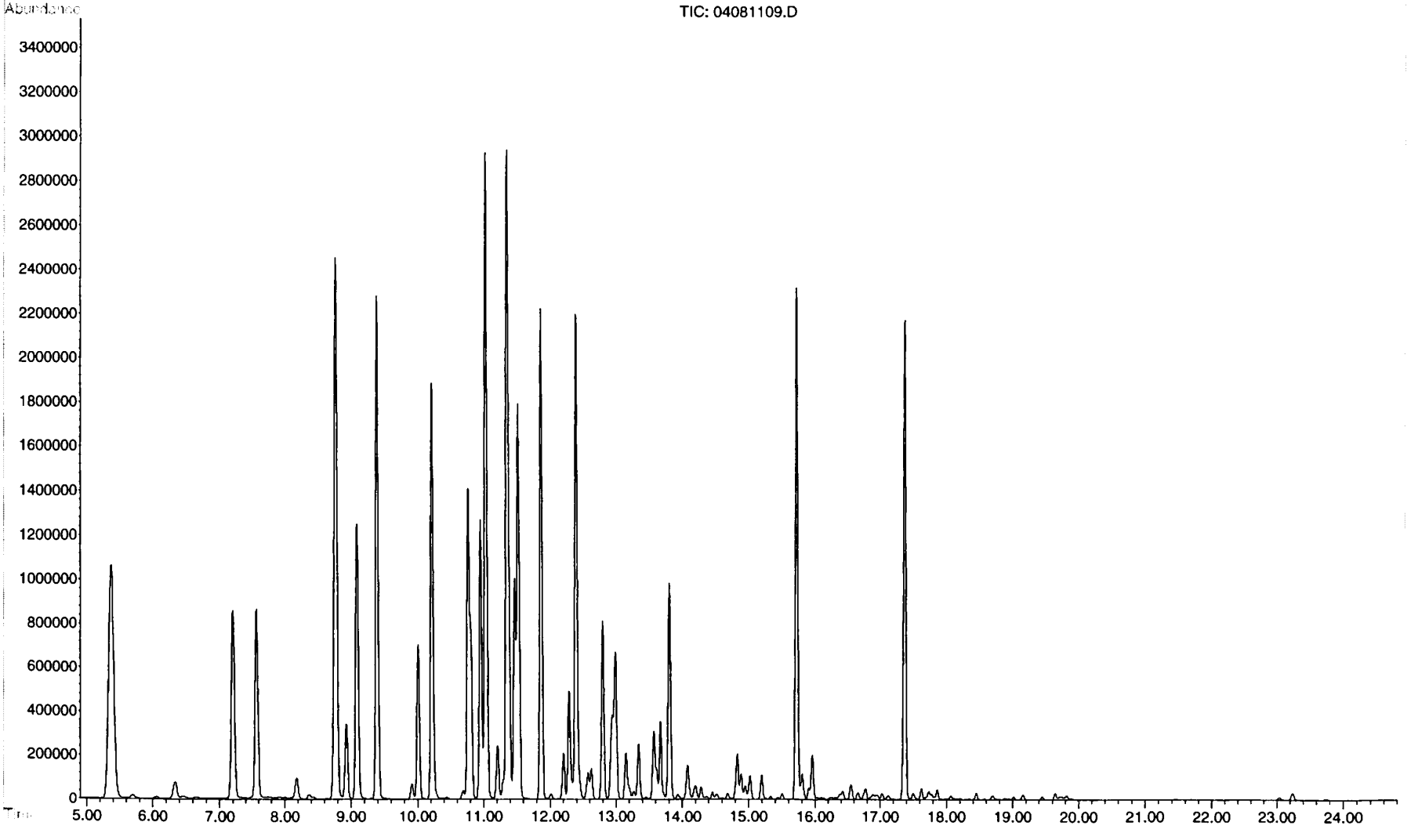
* = reported only AP 4/15/11

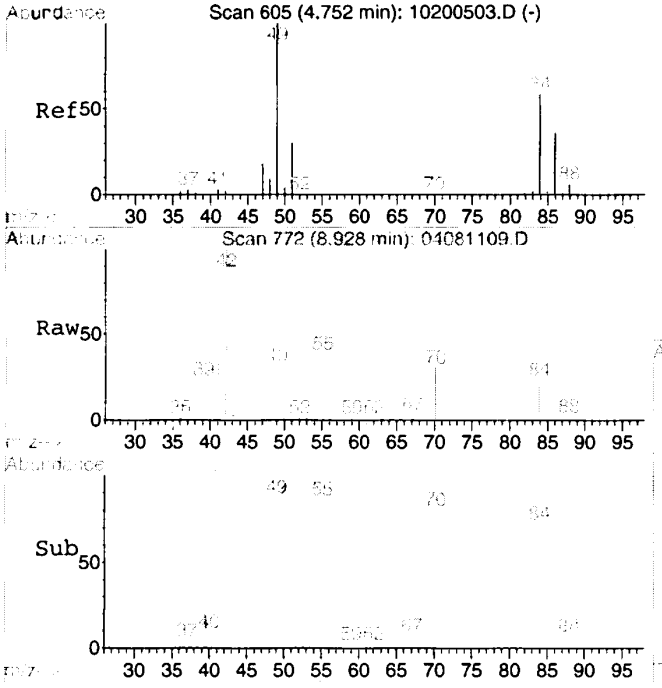
(#) = qualifier out of range (m) = manual integration
04081109.D 040711V1.M Thu Apr 14 16:50:28 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081109.D Vial: 7
Acq On : 8 Apr 2011 9:50 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:11 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

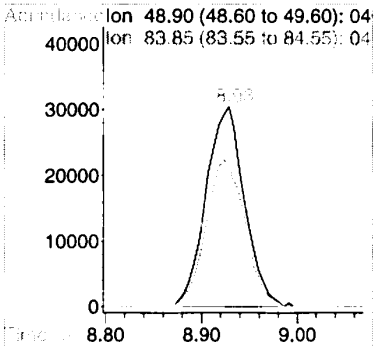


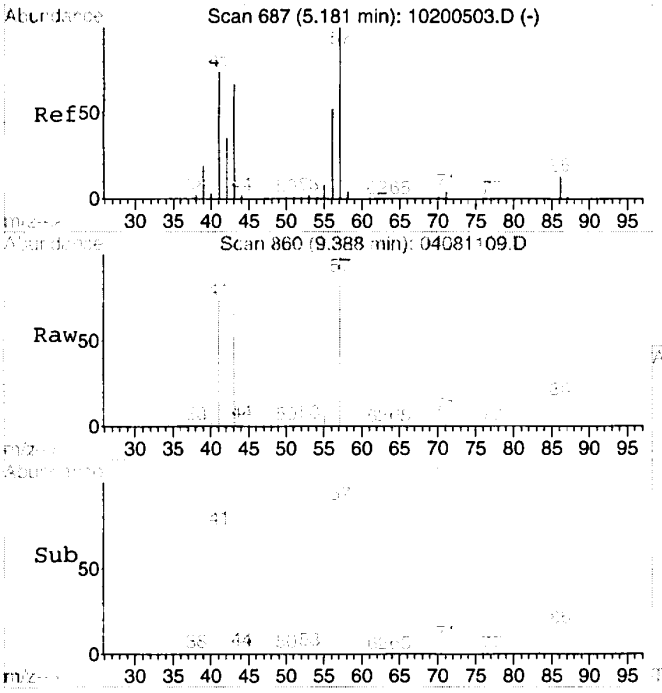


#17
Methylene chloride
Concen: 1.31 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 49 Resp: 84545

Ion	Ratio	Lower	Upper
49	100		
84	74.9	65.4	98.2
86	47.1	42.3	63.5

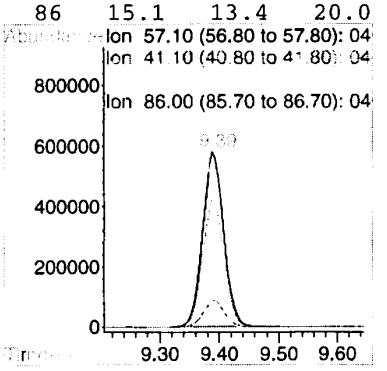


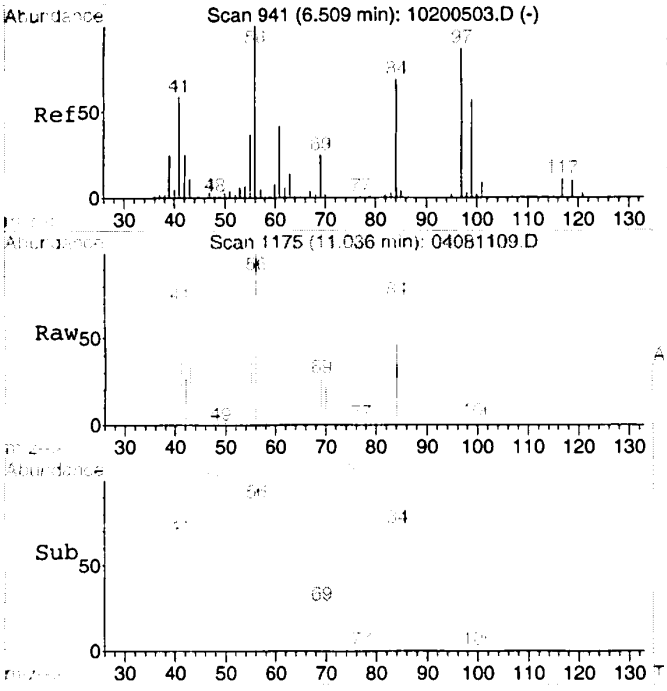


#20
n-Hexane
Concen: 16.07 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 57 Resp: 1438776

Ion	Ratio	Lower	Upper
57	100		
41	73.8	57.2	85.8
53	2.4	1.8	2.8
86	15.1	13.4	20.0

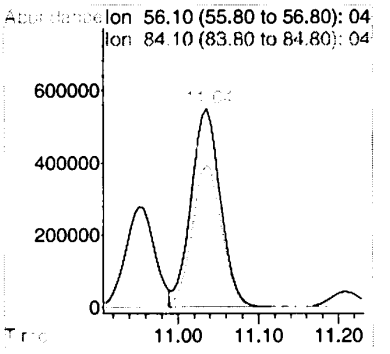


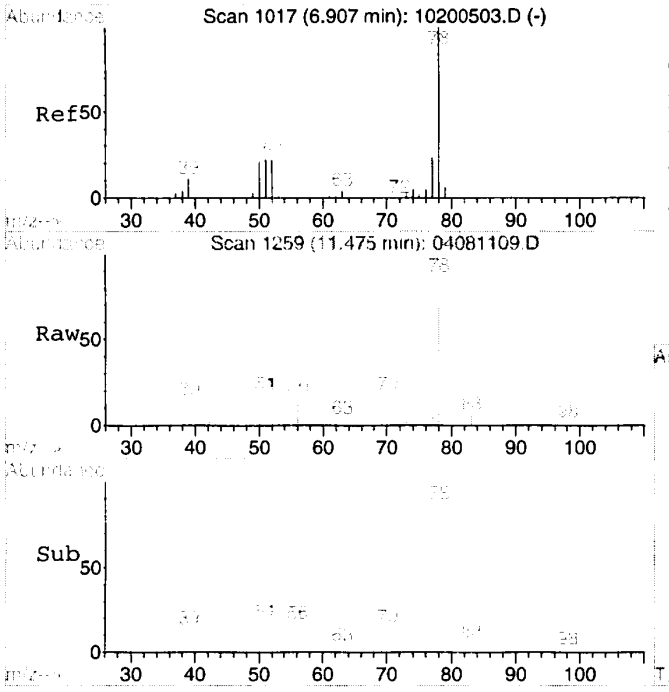


#29
Cyclohexane
Concen: 15.60 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 56 Resp: 1399292

Ion	Ratio	Lower	Upper
56	100		
84	72.0	72.4	108.6#
41	69.0	43.8	65.8#

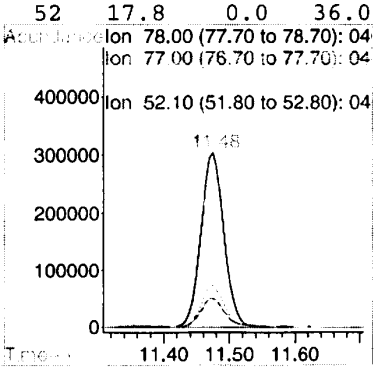


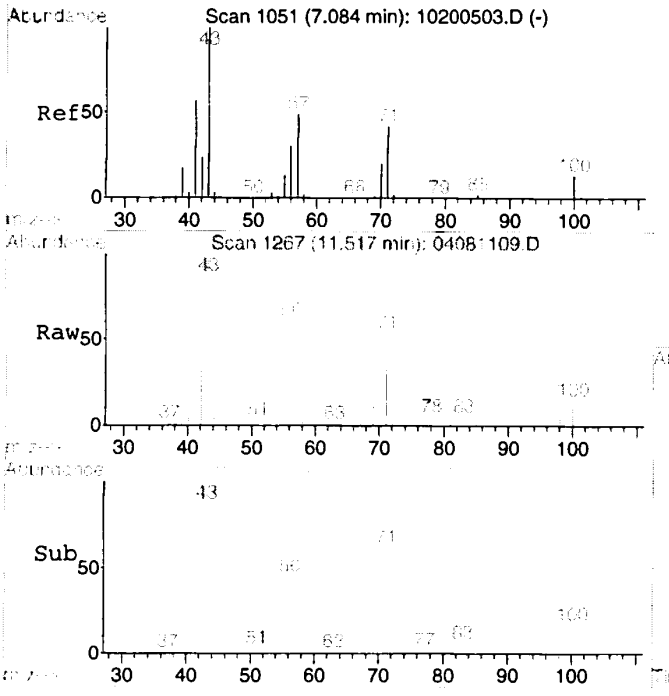


#31
Benzene
Concen: 5.25 ppbv
RT: 11.48 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 78 Resp: 749845

Ion	Ratio	Lower	Upper
78	100		
77	24.8	3.7	43.7
51	20.7	0.0	36.1
52	17.8	0.0	36.0

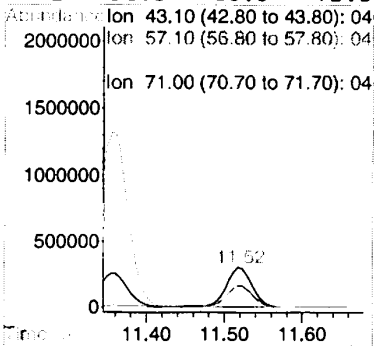


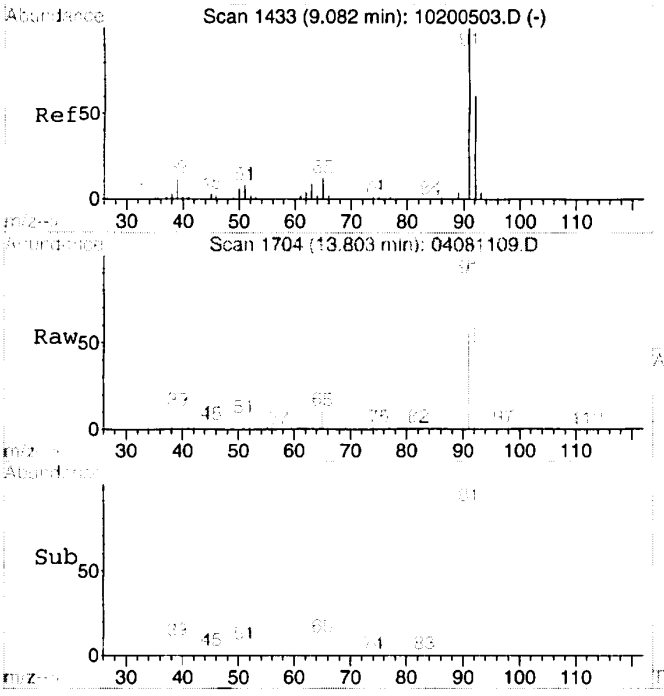


#34
Heptane
Concen: 6.76 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 43 Resp: 694025

Ion	Ratio	Lower	Upper
43	100		
57	56.3	42.2	63.4
100	14.7	17.3	25.9#
71	54.5	48.3	72.5

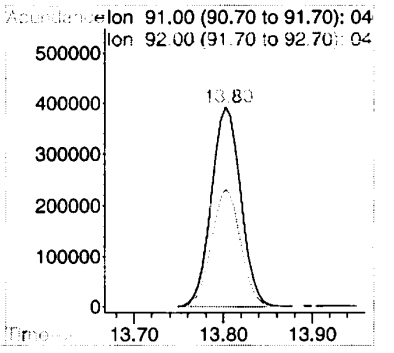


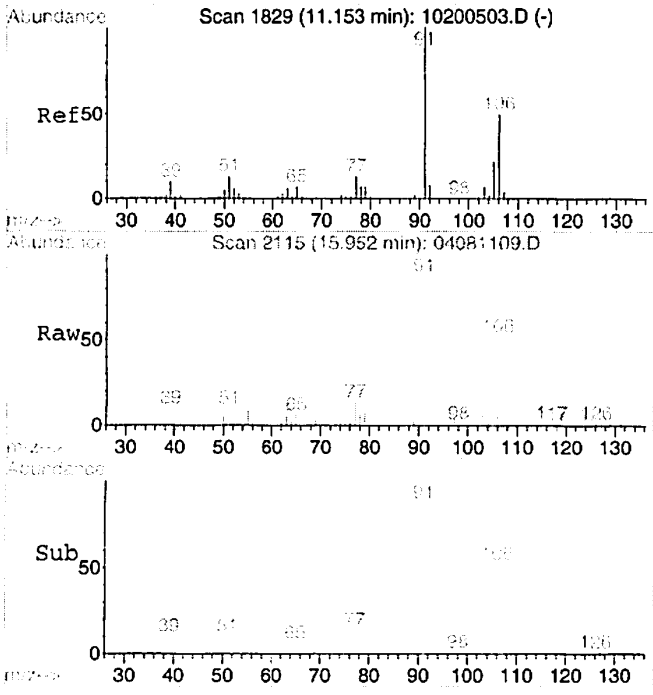


#41
Toluene
Concen: 5.81 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 91 Resp: 904943

Ion	Ratio	Lower	Upper
91	100		
92	58.8	40.5	80.5
65	11.2	0.0	31.2

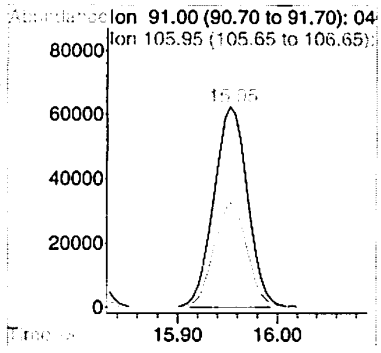




#51
m,p-Xylene
Concen: 1.12 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04081109.D
Acq: 8 Apr 2011 9:50 pm

Tgt Ion: 91 Resp: 146207

Ion	Ratio	Lower	Upper
91	100		
106	50.8	35.6	75.6
51	10.5	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081110.D Vial: 8
Acq On : 8 Apr 2011 10:31 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 22:56 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	621982	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2232572	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1609341	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	976577	12.08	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.64%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	66452	1.05	ppbv		92
20) n-Hexane	9.39	57	673730	7.69	ppbv		95
26) Tetrahydrofuran	10.81	42	191401	3.81	ppbv	#	40
29) Cyclohexane*	11.04	56	1245907	14.20	ppbv	#	80
31) Benzene	11.47	78	748598	5.36	ppbv		96
34) Heptane	11.52	43	620772	6.10	ppbv	#	92
41) Toluene	13.80	91	441533	2.86	ppbv		97

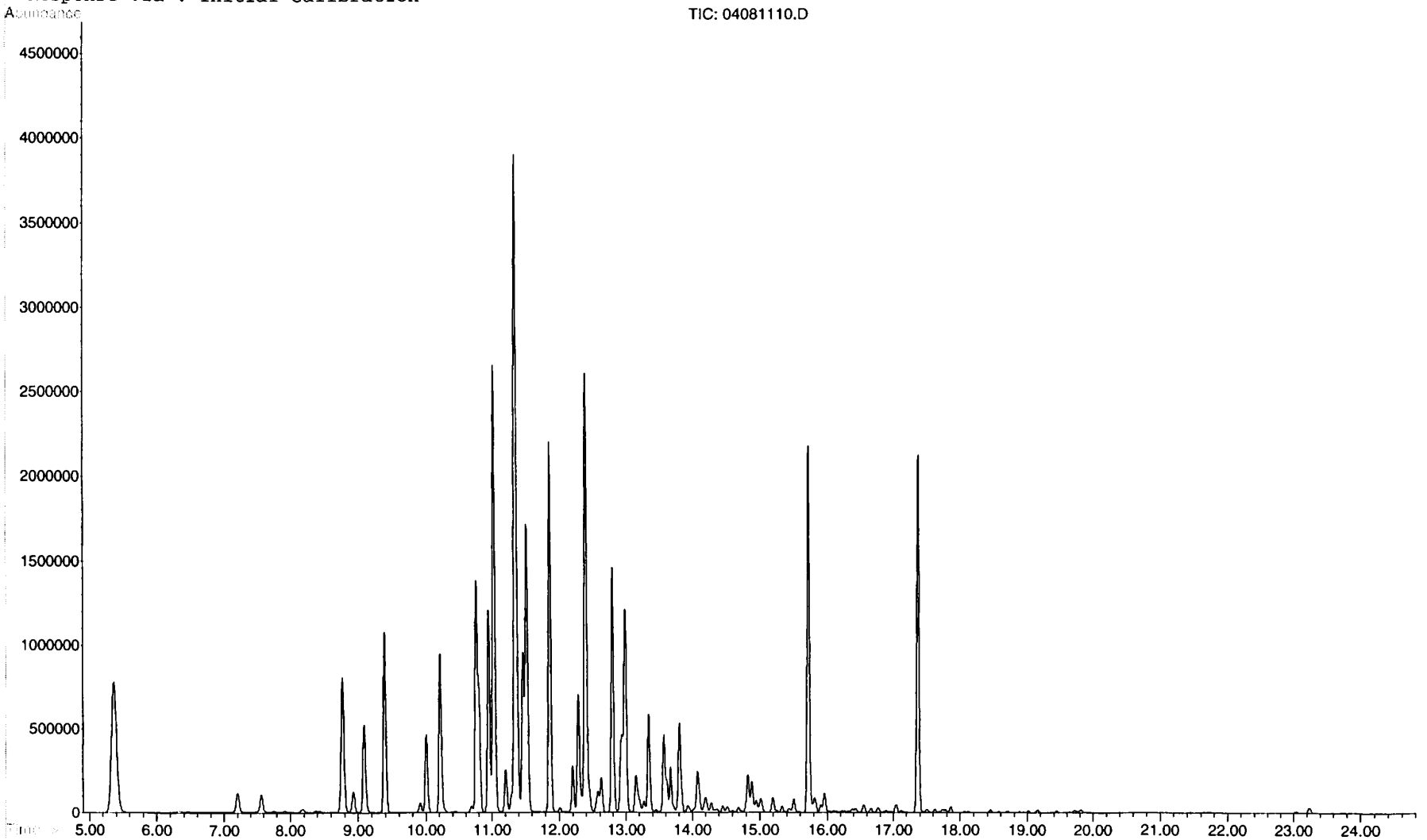
#=reported only AP 4/15/11

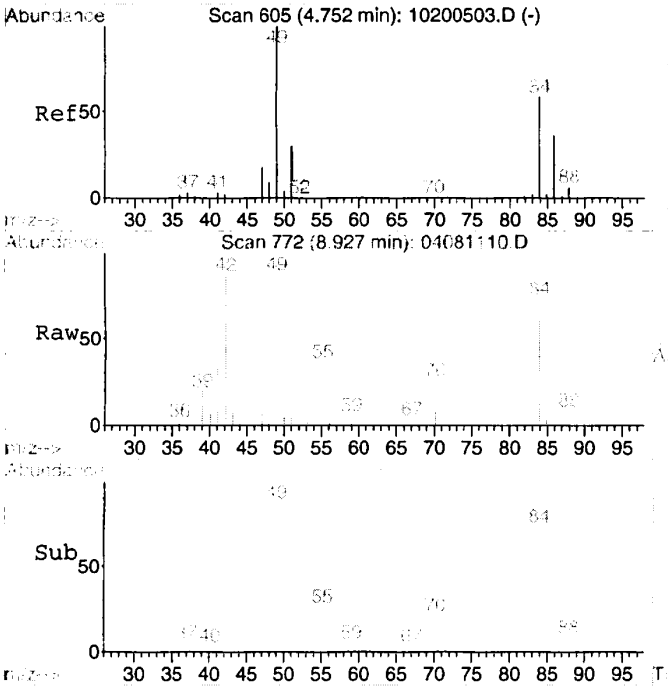
(#) = qualifier out of range (m) = manual integration
04081110.D 040711V1.M Thu Apr 14 16:50:40 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081110.D Vial: 8
Acq On : 8 Apr 2011 10:31 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 8 22:56 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

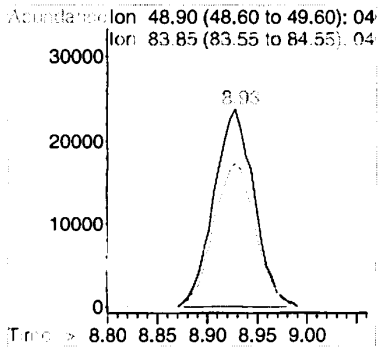


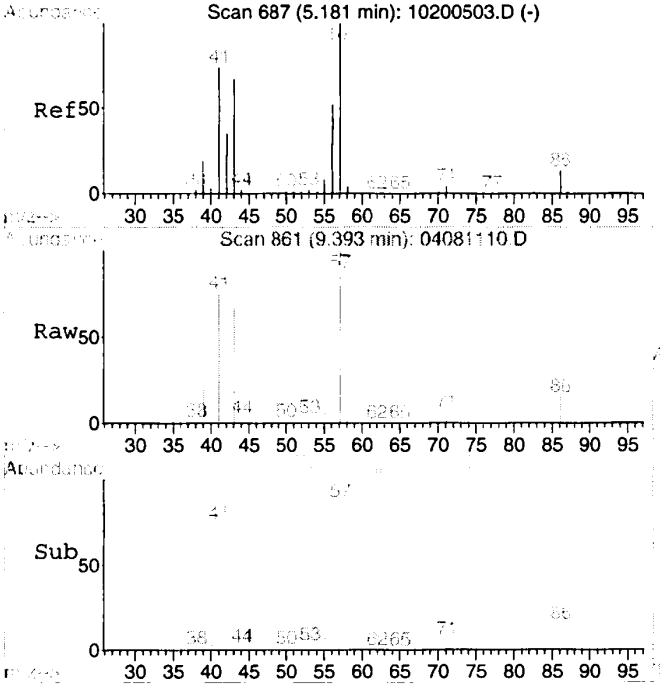


#17
Methylene chloride
Concen: 1.05 ppbv
RT: 8.93 min Scan# 772
Delta R.T. 0.00 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 49 Resp: 66452

Ion	Ratio	Lower	Upper
49	100		
84	75.0	65.4	98.2
86	46.3	42.3	63.5

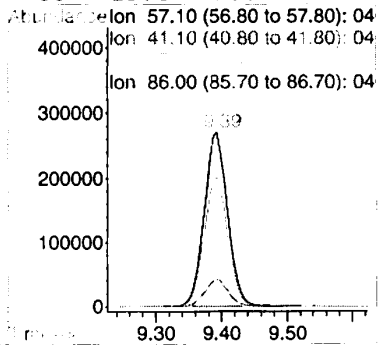


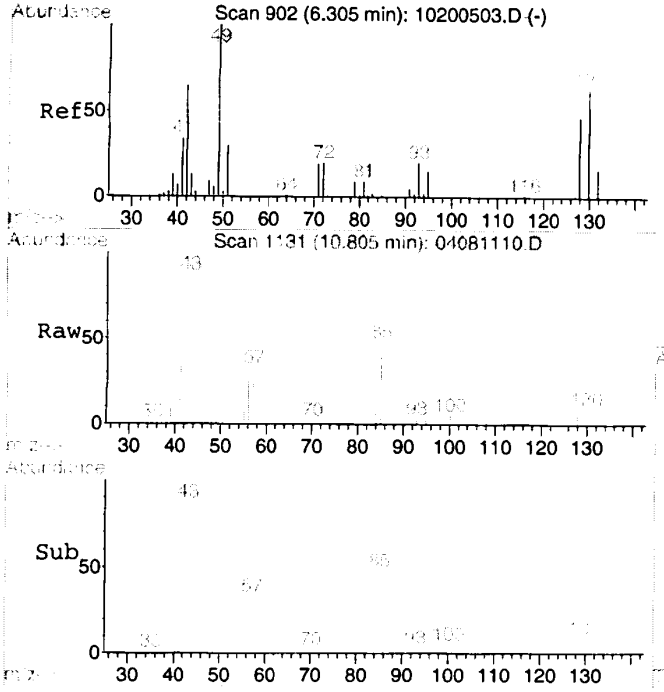


#20
n-Hexane
Concen: 7.69 ppbv
RT: 9.39 min Scan# 861
Delta R.T. 0.00 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 57 Resp: 673730

Ion	Ratio	Lower	Upper
57	100		
41	75.7	57.2	85.8
53	2.5	1.8	2.8
86	15.4	13.4	20.0

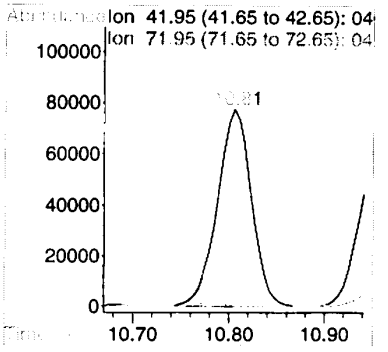


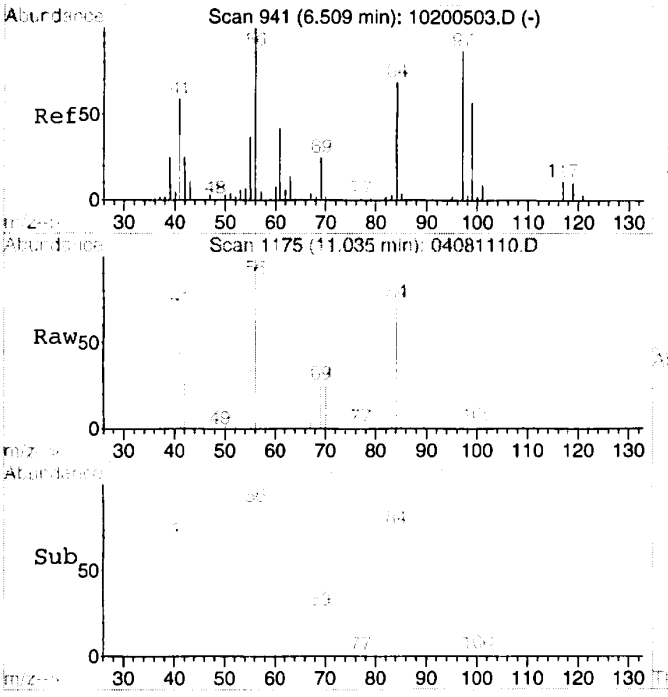


#26
Tetrahydrofuran
Concen: 3.81 ppbv
RT: 10.81 min Scan# 1131
Delta R.T. 0.05 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 42 Resp: 191401

Ion	Ratio	Lower	Upper
42	100		
72	1.4	35.0	52.6#
71	7.2	31.9	47.9#

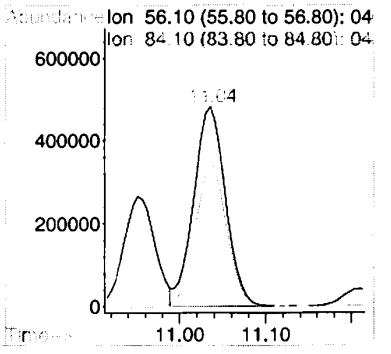


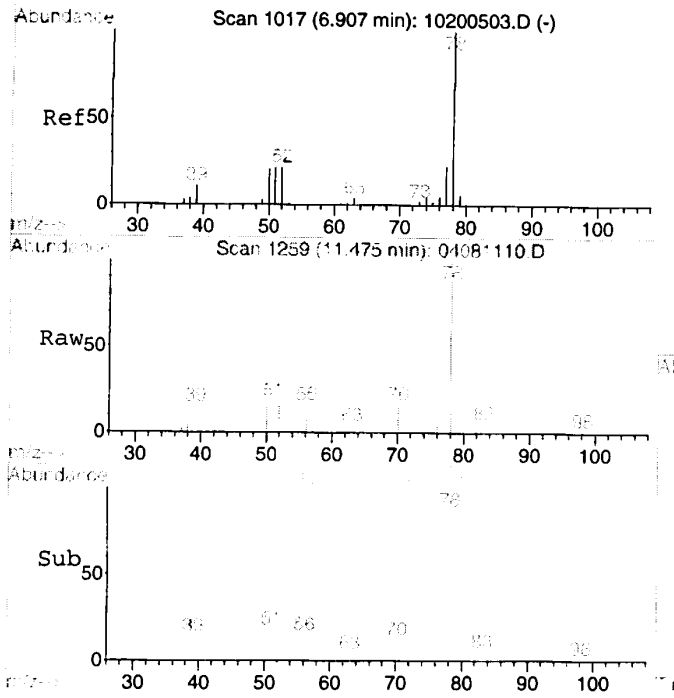


#29
Cyclohexane
Concen: 14.20 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 56 Resp: 1245907

Ion	Ratio	Lower	Upper
56	100		
84	71.3	72.4	108.6#
41	69.8	43.8	65.8#

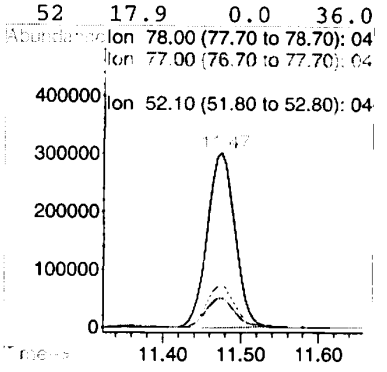


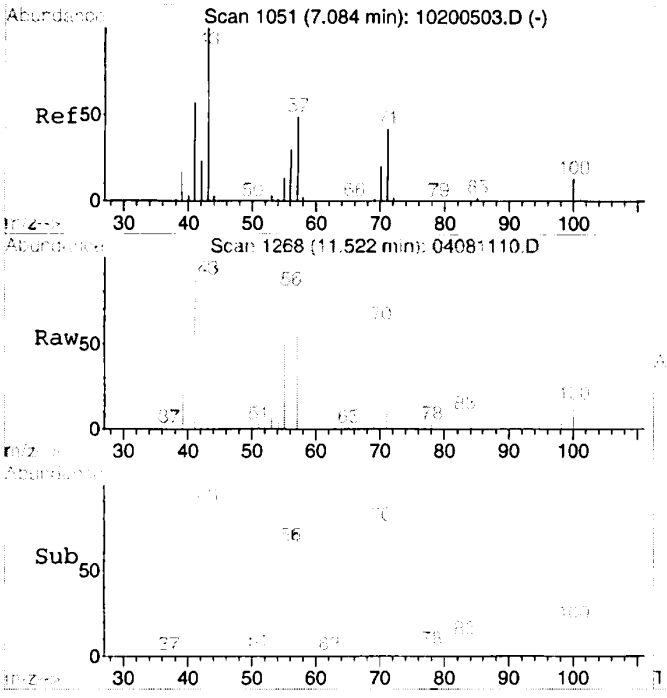


#31
Benzene
Concen: 5.36 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 78 Resp: 748598

Ion	Ratio	Lower	Upper
78	100		
77	25.3	3.7	43.7
51	18.0	0.0	36.1
52	17.9	0.0	36.0

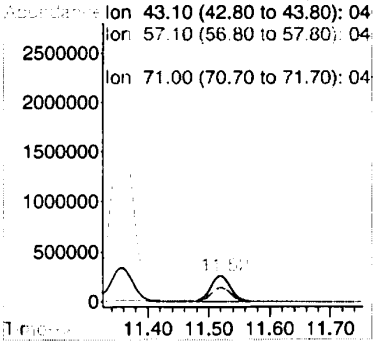


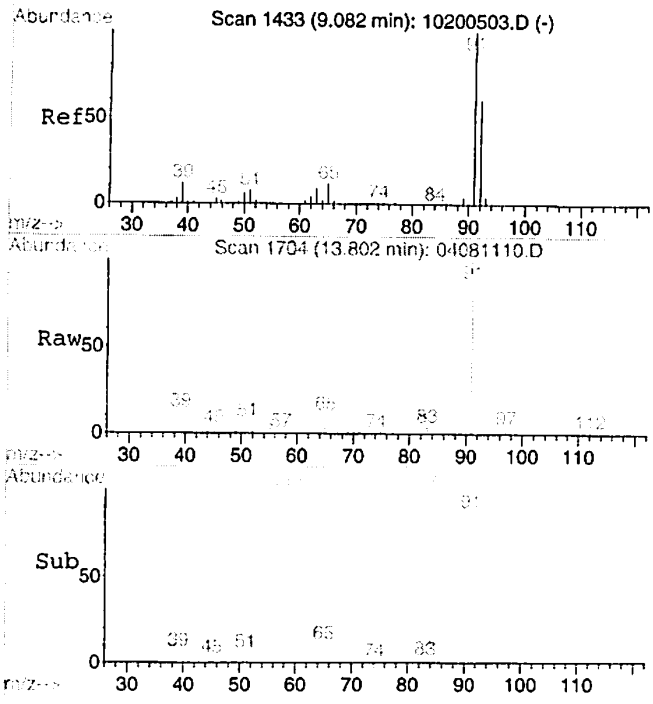


#34
Heptane
Concen: 6.10 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. 0.00 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 43 Resp: 620772

Ion	Ratio	Lower	Upper
43	100		
57	55.8	42.2	63.4
100	14.4	17.3	25.9#
71	53.9	48.3	72.5

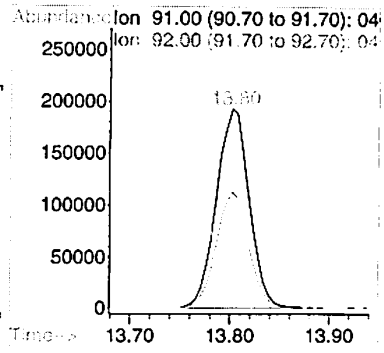




#41
Toluene
Concen: 2.86 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04081110.D
Acq: 8 Apr 2011 10:31 pm

Tgt Ion: 91 Resp: 441533

Ion	Ratio	Lower	Upper
91	100		
92	58.3	40.5	80.5
65	11.5	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081111.D
Acq On : 8 Apr 2011 11:12 pm
Sample : 1103609-014A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: CLME.P
Quant Time: Apr 9 10:13 2011

Vial: 9
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 160000.00

Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	617006	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2220269	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1633388	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	999958	12.19	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.52%				
Target Compounds							Qvalue
17) Methylene chloride	8.92	49	68058	1.09	ppbv		90
20) n-Hexane*	9.39	57	2023046	23.29	ppbv		98
29) Cyclohexane*	11.04	56	2210029	25.39	ppbv	#	80
31) Benzene*	11.47	78	1129493	8.16	ppbv		94
34) Heptane*	11.52	43	1326936	13.11	ppbv	#	92
41) Toluene*	13.80	91	1552822	10.12	ppbv		99

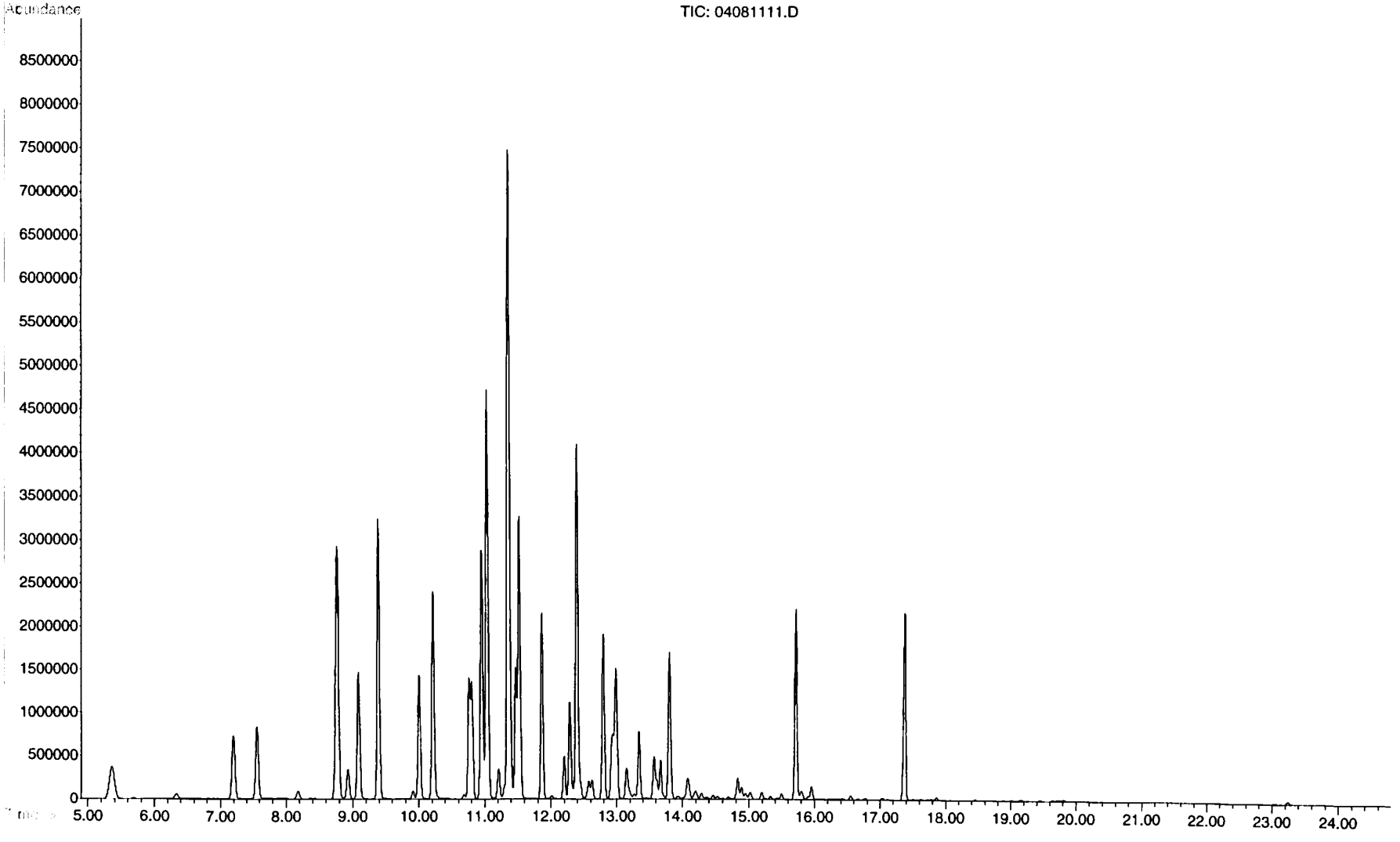
* = reported only 4/15/11 AP

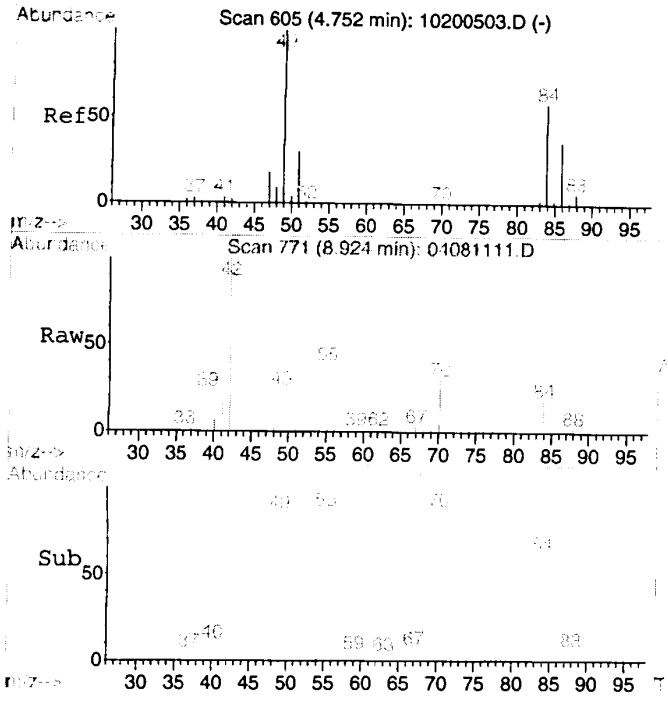
(#) = qualifier out of range (m) = manual integration
04081111.D 040711V1.M Thu Apr 14 16:50:55 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081111.D Vial: 9
Acq On : 8 Apr 2011 11:12 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:13 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

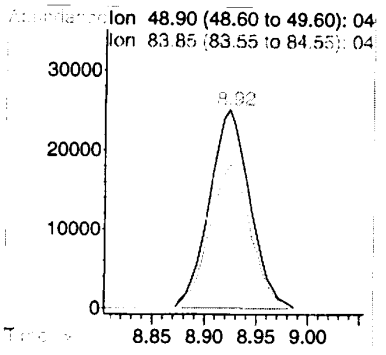


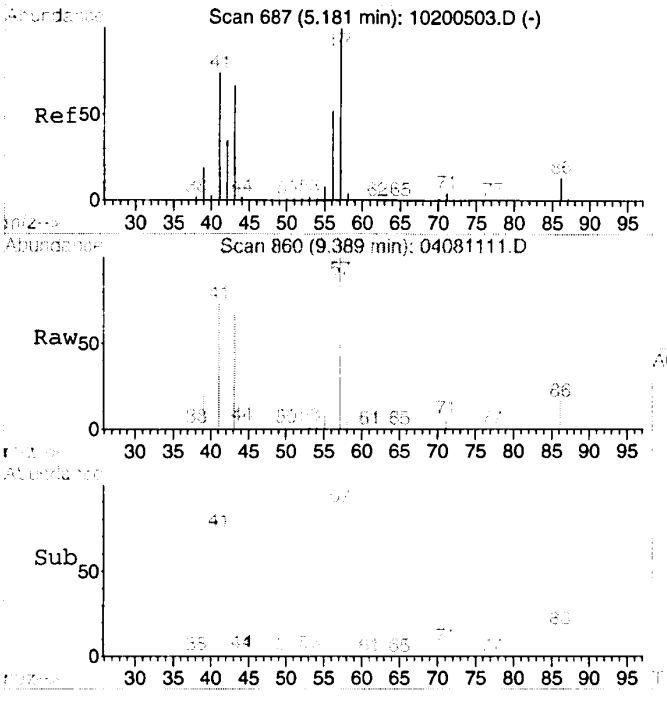


#17
Methylene chloride
Concen: 1.09 ppbv
RT: 8.92 min Scan# 771
Delta R.T. -0.00 min
Lab File: 04081111.D
Acq: 8 Apr 2011 11:12 pm

Tgt Ion: 49 Resp: 68058

Ion	Ratio	Lower	Upper
49	100		
84	72.9	65.4	98.2
86	46.6	42.3	63.5

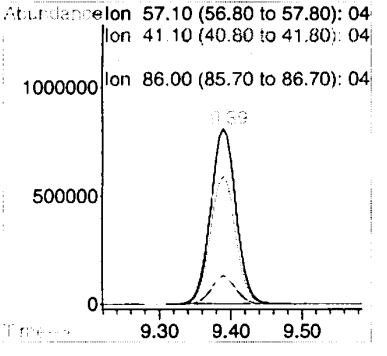


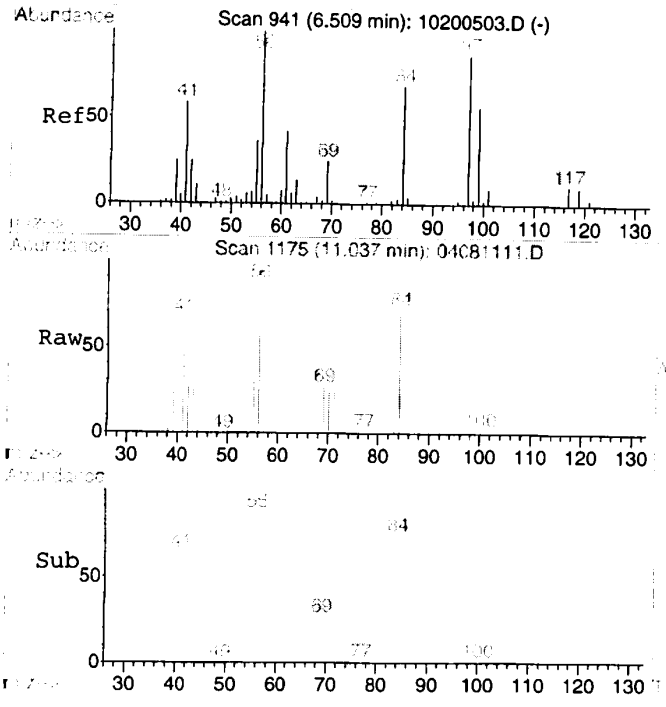


#20
n-Hexane
Concen: 23.29 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04081111.D
Acq: 8 Apr 2011 11:12 pm

Tgt Ion: 57 Resp: 2023046

Ion	Ratio	Lower	Upper
57	100		
41	73.4	57.2	85.8
53	2.4	1.8	2.8
86	15.6	13.4	20.0

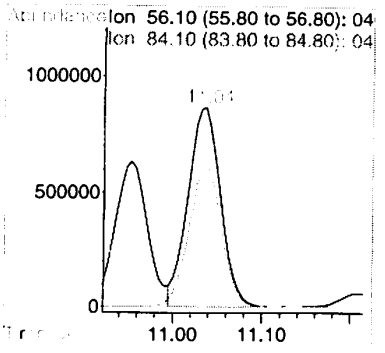


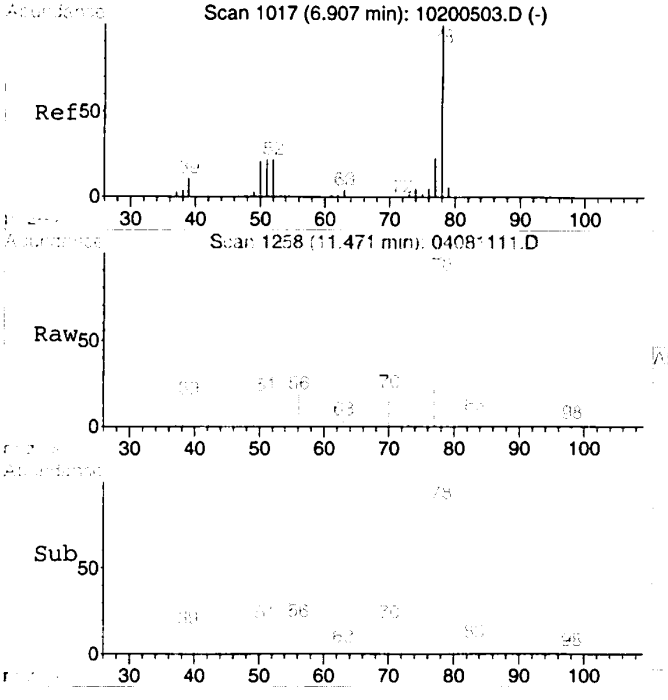


#29
Cyclohexane
Concen: 25.39 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04081111.D
Acq: 8 Apr 2011 11:12 pm

Tgt Ion: 56 Resp: 2210029

Ion	Ratio	Lower	Upper
56	100		
84	72.0	72.4	108.6#
41	69.6	43.8	65.8#

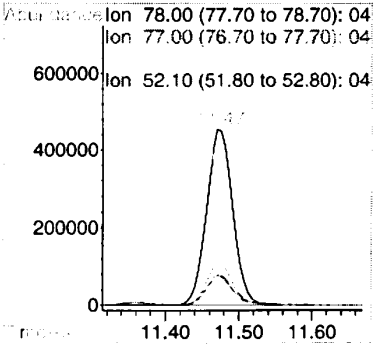


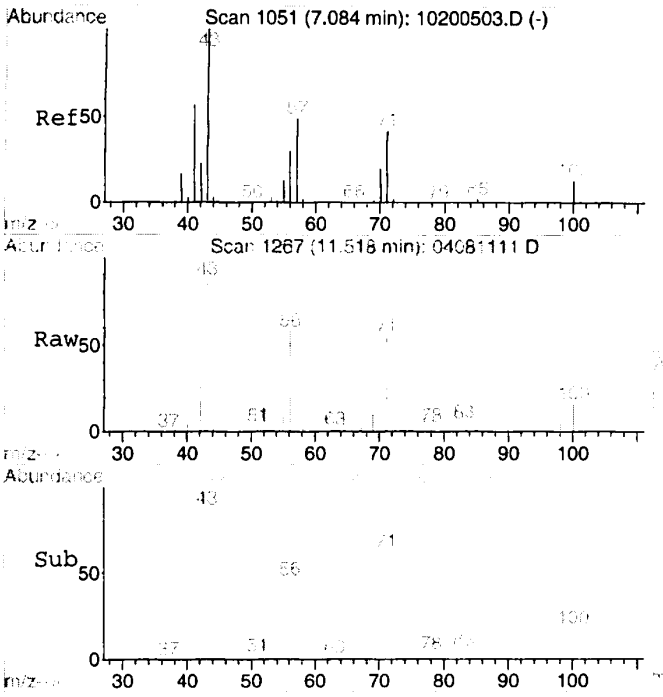


#31
Benzene
Concen: 8.16 ppbv
RT: 11.47 min Scan# 1258
Delta R.T. -0.00 min
Lab File: 04081111.D
Acq: 8 Apr 2011 11:12 pm

Tgt Ion: 78 Resp: 1129493

Ion	Ratio	Lower	Upper
78	100		
77	25.0	3.7	43.7
51	20.7	0.0	36.1
52	18.0	0.0	36.0

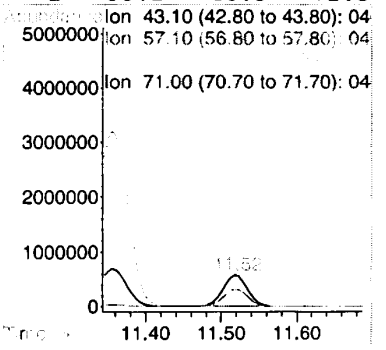


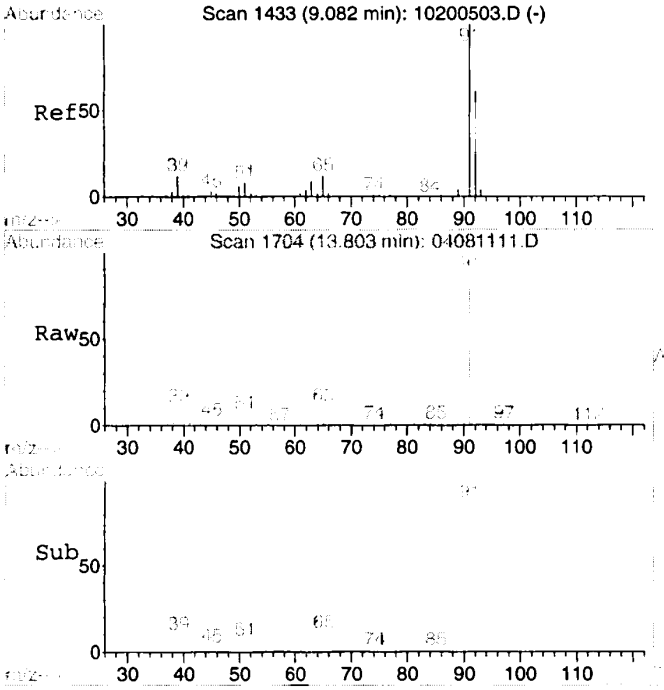


#34
Heptane
Concen: 13.11 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04081111.D
Acq: 8 Apr 2011 11:12 pm

Tgt Ion: 43 Resp: 1326936

Ion	Ratio	Lower	Upper
43	100		
57	58.4	42.2	63.4
100	15.1	17.3	25.9#
71	55.2	48.3	72.5

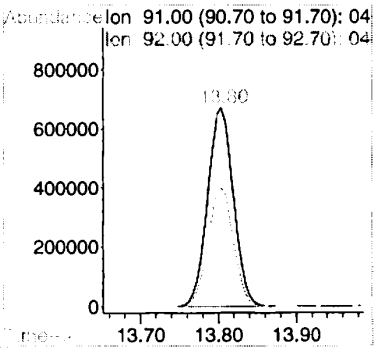




#41
Toluene
Concen: 10.12 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04081111.D
Acq: 8 Apr 2011 11:12 pm

Tgt Ion: 91 Resp: 1552822

Ion	Ratio	Lower	Upper
91	100		
92	59.3	40.5	80.5
65	11.2	0.0	31.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081112.D
Acq On : 8 Apr 2011 11:54 pm
Sample : 1103609-015A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: CLME.P
Quant Time: Apr 9 10:13 2011

Vial: 10
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 4000.00

Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

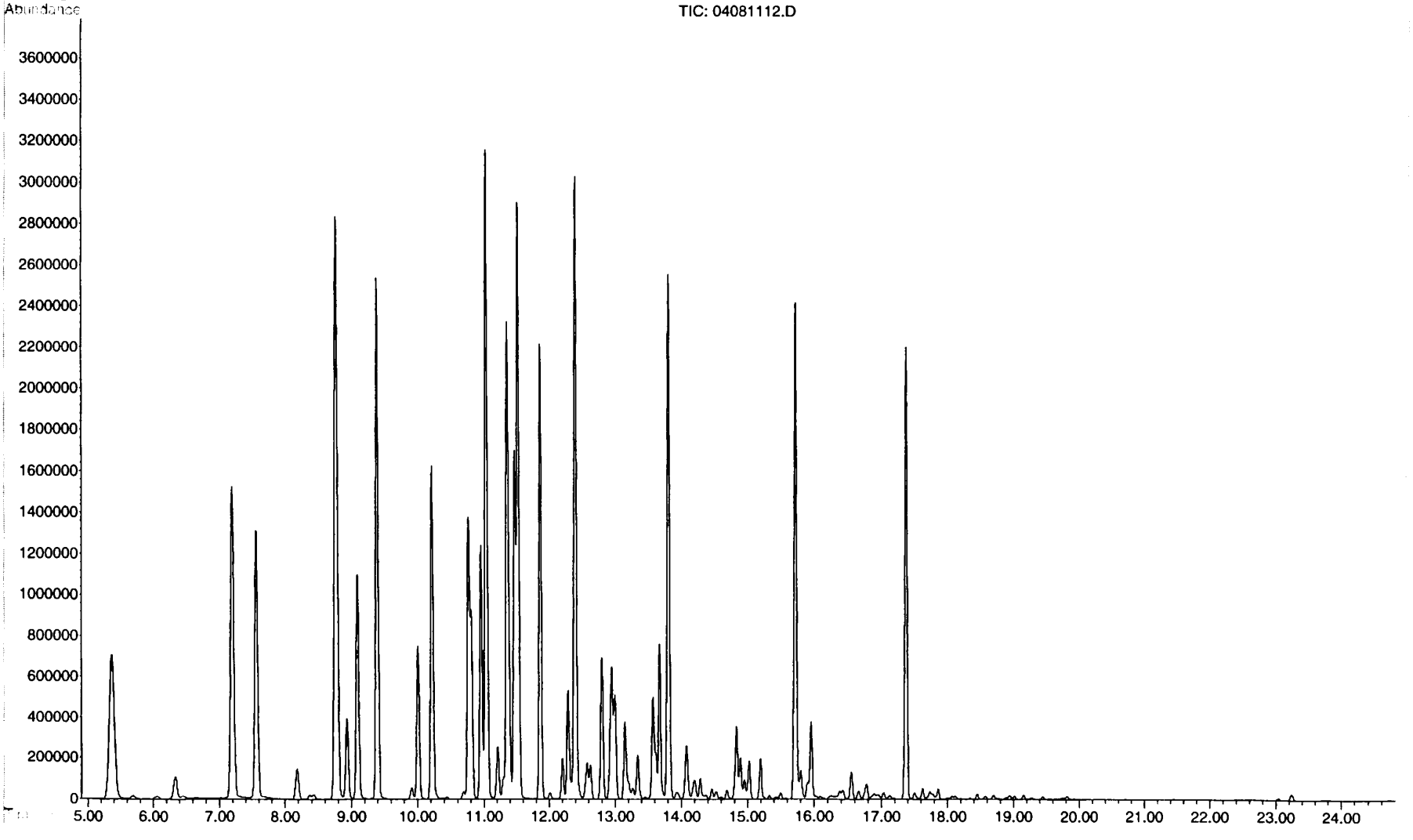
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	625438	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2294502	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1667905	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1010375	12.06	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.48%				
Target Compounds							Qvalue
17) Methylene chloride	8.93	49	81031	1.28	ppbv		91
20) n-Hexane	9.39	57	1595191	18.11	ppbv		97
29) Cyclohexane	11.03	56	1460656	16.55	ppbv	#	79
31) Benzene	11.47	78	1527011	10.88	ppbv		96
34) Heptane	11.52	43	1242943	11.89	ppbv	#	94
41) Toluene	13.80	91	2363510	14.90	ppbv		99
51) m,p-Xylene	15.95	91	273120	2.05	ppbv		93

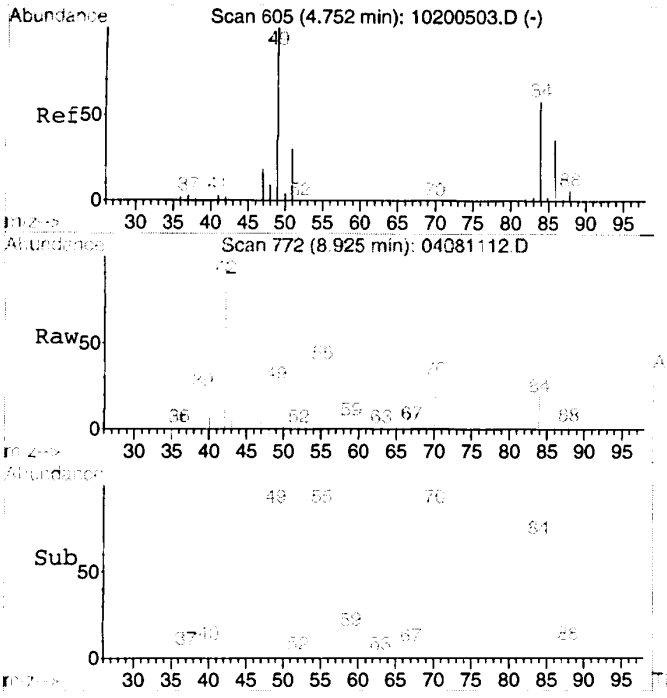
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:13 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

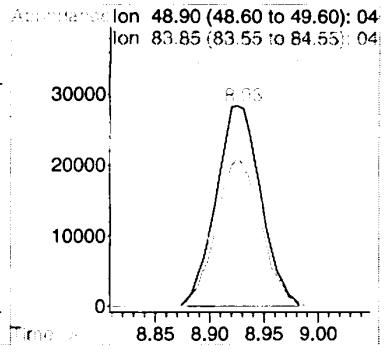


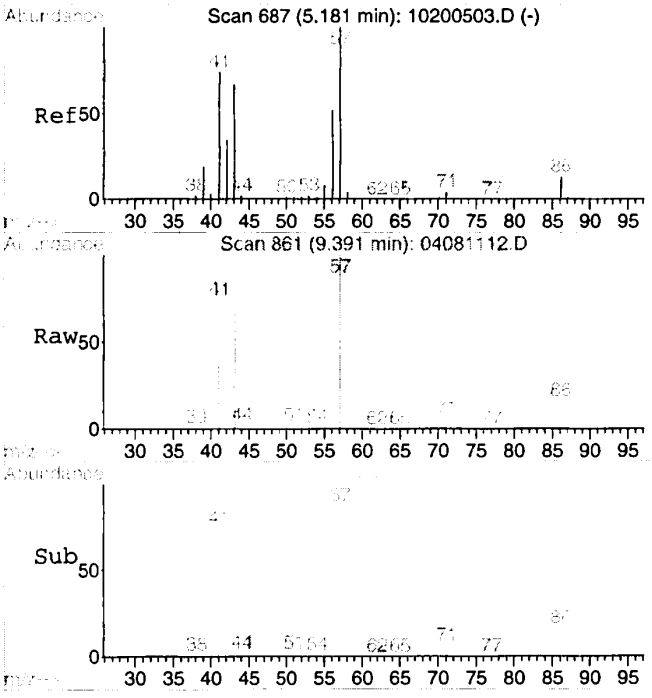


#17
Methylene chloride
Concen: 1.28 ppbv
RT: 8.93 min Scan# 772
Delta R.T. -0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 49 Resp: 81031

Ion	Ratio	Lower	Upper
49	100		
84	74.0	65.4	98.2
86	46.7	42.3	63.5

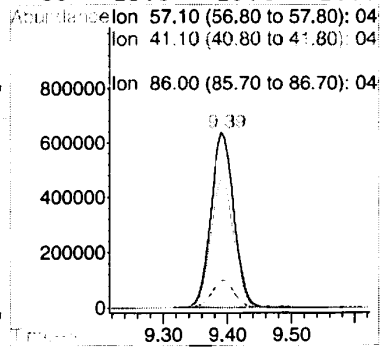


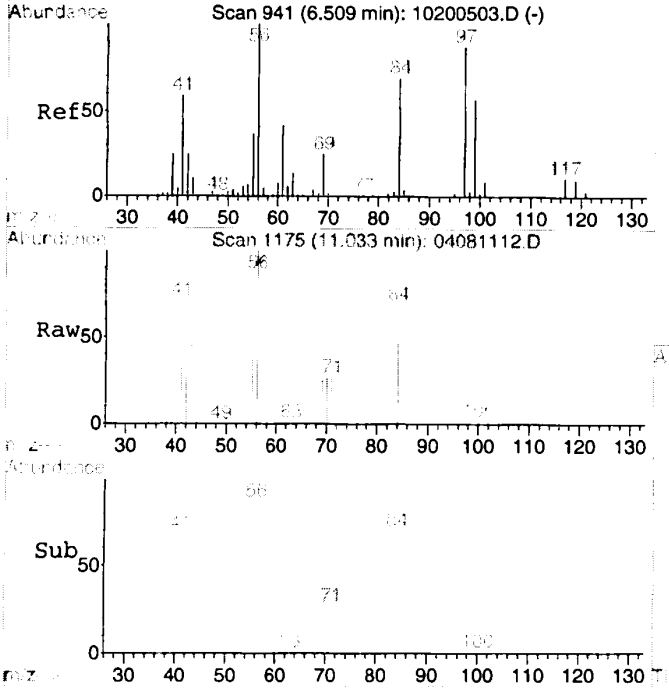


#20
n-Hexane
Concen: 18.11 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 57 Resp: 1595191

Ion	Ratio	Lower	Upper
57	100		
41	73.8	57.2	85.8
53	2.4	1.8	2.8
86	15.5	13.4	20.0

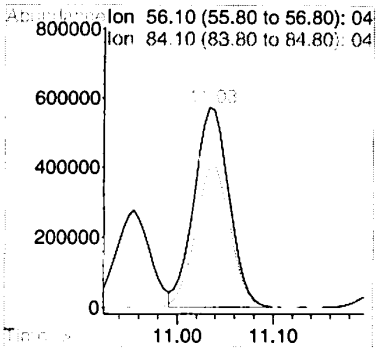


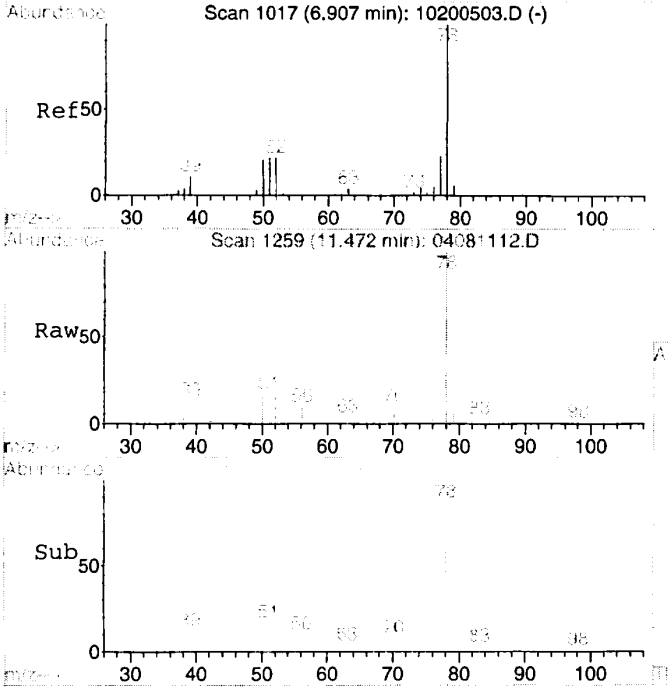


#29
Cyclohexane
Concen: 16.55 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 56 Resp: 1460656

Ion	Ratio	Lower	Upper
56	100		
84	71.4	72.4	108.6#
41	70.5	43.8	65.8#

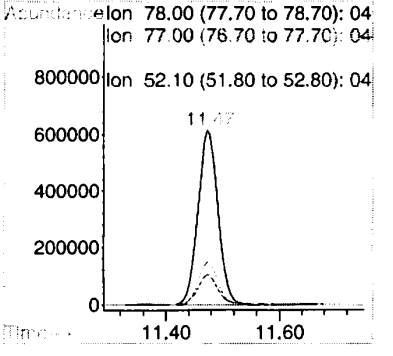


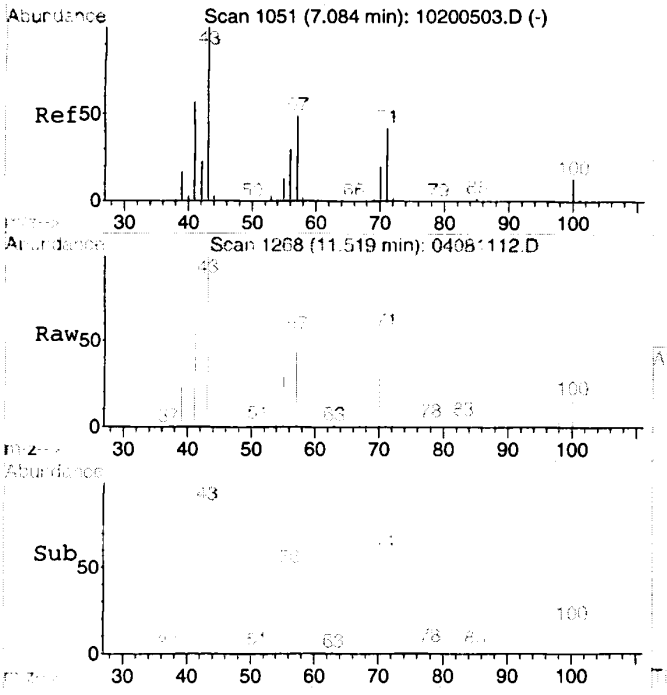


#31
Benzene
Concen: 10.88 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 78 Resp: 1527011

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	19.3	0.0	36.1
52	17.3	0.0	36.0

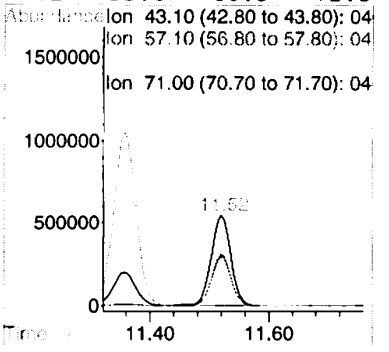


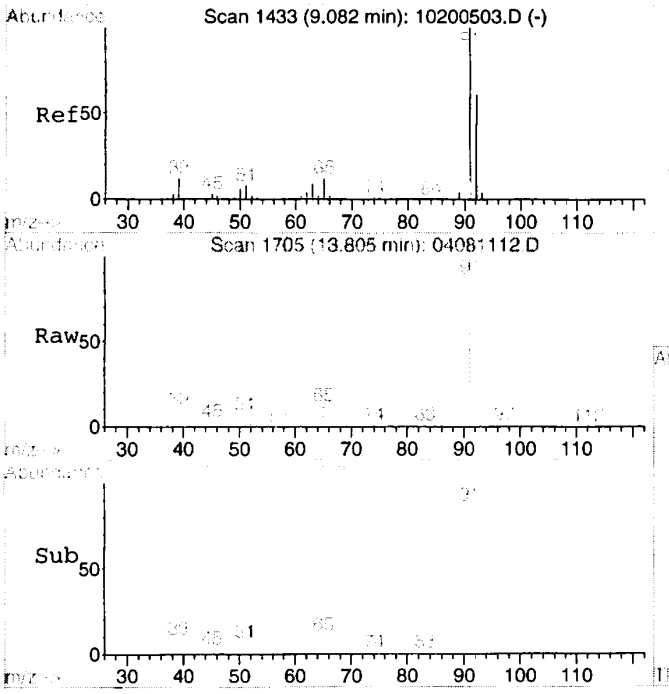


#34
Heptane
Concen: 11.89 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 43 Resp: 1242943

Ion	Ratio	Lower	Upper
43	100		
57	55.3	42.2	63.4
100	15.3	17.3	25.9#
71	55.6	48.3	72.5

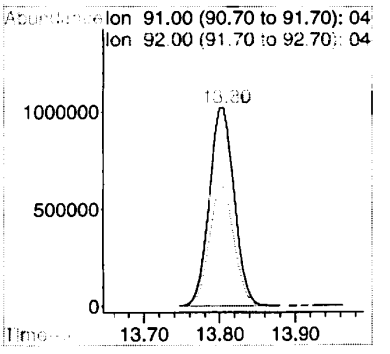


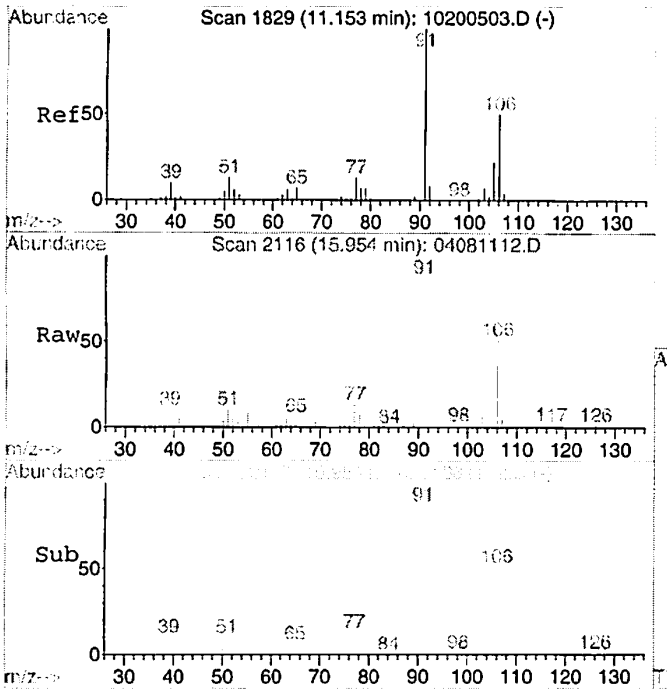


#41
Toluene
Concen: 14.90 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 91 Resp: 2363510

Ion	Ratio	Lower	Upper
91	100		
92	59.8	40.5	80.5
65	11.5	0.0	31.2

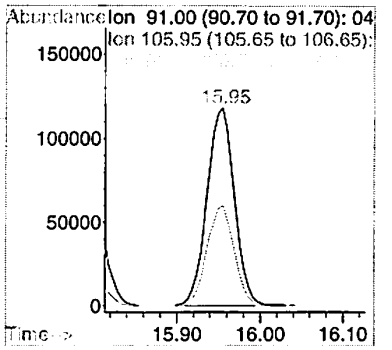




#51
m,p-Xylene
Concen: 2.05 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04081112.D
Acq: 8 Apr 2011 11:54 pm

Tgt Ion: 91 Resp: 273120

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.3	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	65	91	129	rBV	703185	3892120	42.45%	3.192%
2	6.336	259	277	290	rBV2	108529	422556	4.61%	0.347%
3	7.194	424	441	461	rBV	1522195	5189945	56.60%	4.257%
4	7.560	491	511	530	rBV	1308059	4097246	44.68%	3.361%
5	8.188	618	631	644	rBV	150258	484149	5.28%	0.397%
6	8.768	725	742	762	rBV2	2838460	9169500	100.00%	7.521%
7	8.930	762	773	790	rVV2	393089	1133296	12.36%	0.930%
8	9.093	790	804	821	rVV	1095619	3061295	33.39%	2.511%
9	9.391	847	861	884	rBV	2538508	6336614	69.11%	5.198%
10	9.914	950	961	968	rBV3	57010	156352	1.71%	0.128%
11	10.008	968	979	1000	rVB	746045	1984425	21.64%	1.628%
12	10.217	1005	1019	1043	rBV	1626399	4321487	47.13%	3.545%
13	10.688	1096	1109	1113	rBV2	38679	93609	1.02%	0.077%
14	10.766	1113	1124	1129	rBV	1356632	3671907	40.04%	3.012%
15	10.954	1147	1160	1167	rBV	1237265	3171167	34.58%	2.601%
16	11.033	1167	1175	1196	rVB2	3155852	7997220	87.22%	6.560%
17	11.211	1198	1209	1218	rVV	250499	661884	7.22%	0.543%
18	11.294	1218	1225	1226	rVV2	102003	168373	1.84%	0.138%
19	11.357	1227	1237	1250	rVV	2321273	6935268	75.63%	5.689%
20	11.472	1250	1259	1263	rVV	1693257	4204061	45.85%	3.448%
21	11.519	1263	1268	1284	rVB2	2897658	6984186	76.17%	5.729%
22	11.859	1321	1333	1352	rBV	2216058	5168085	56.36%	4.239%
23	12.199	1385	1398	1405	rBV2	198291	474317	5.17%	0.389%
24	12.283	1405	1414	1424	rVV	531001	1428857	15.58%	1.172%
25	12.393	1424	1435	1457	rVV	3030122	7666621	83.61%	6.288%
26	12.571	1457	1469	1474	rVV3	178664	507746	5.54%	0.416%
27	12.623	1474	1479	1492	rVB2	167903	402959	4.39%	0.331%
28	12.795	1498	1512	1525	rBV2	691638	1763465	19.23%	1.446%
29	12.942	1525	1540	1545	rBV3	645440	1878360	20.48%	1.541%
30	13.146	1567	1579	1597	rBV2	376884	1186227	12.94%	0.973%
31	13.266	1597	1602	1608	rVV3	54751	136571	1.49%	0.112%
32	13.339	1608	1616	1630	rVB	215572	567189	6.19%	0.465%
33	13.570	1644	1660	1673	rBV2	496656	1701290	18.55%	1.395%
34	13.669	1673	1679	1693	rVB	745626	1652654	18.02%	1.356%
35	13.805	1693	1705	1721	rVB	2552915	6162820	67.21%	5.055%
36	14.072	1747	1756	1769	rBV4	255526	703500	7.67%	0.577%
37	14.197	1769	1780	1789	rVB6	83613	256937	2.80%	0.211%
38	14.281	1789	1796	1805	rBV	91096	195238	2.13%	0.160%
39	14.453	1820	1829	1835	rBV2	52110	118177	1.29%	0.097%
40	14.684	1866	1873	1881	rBV3	45280	108182	1.18%	0.089%
41	14.825	1887	1900	1907	rBV	354276	951580	10.38%	0.781%
42	14.882	1907	1911	1918	rVV	202106	469238	5.12%	0.385%
43	14.945	1918	1923	1929	rVV3	97004	235446	2.57%	0.193%

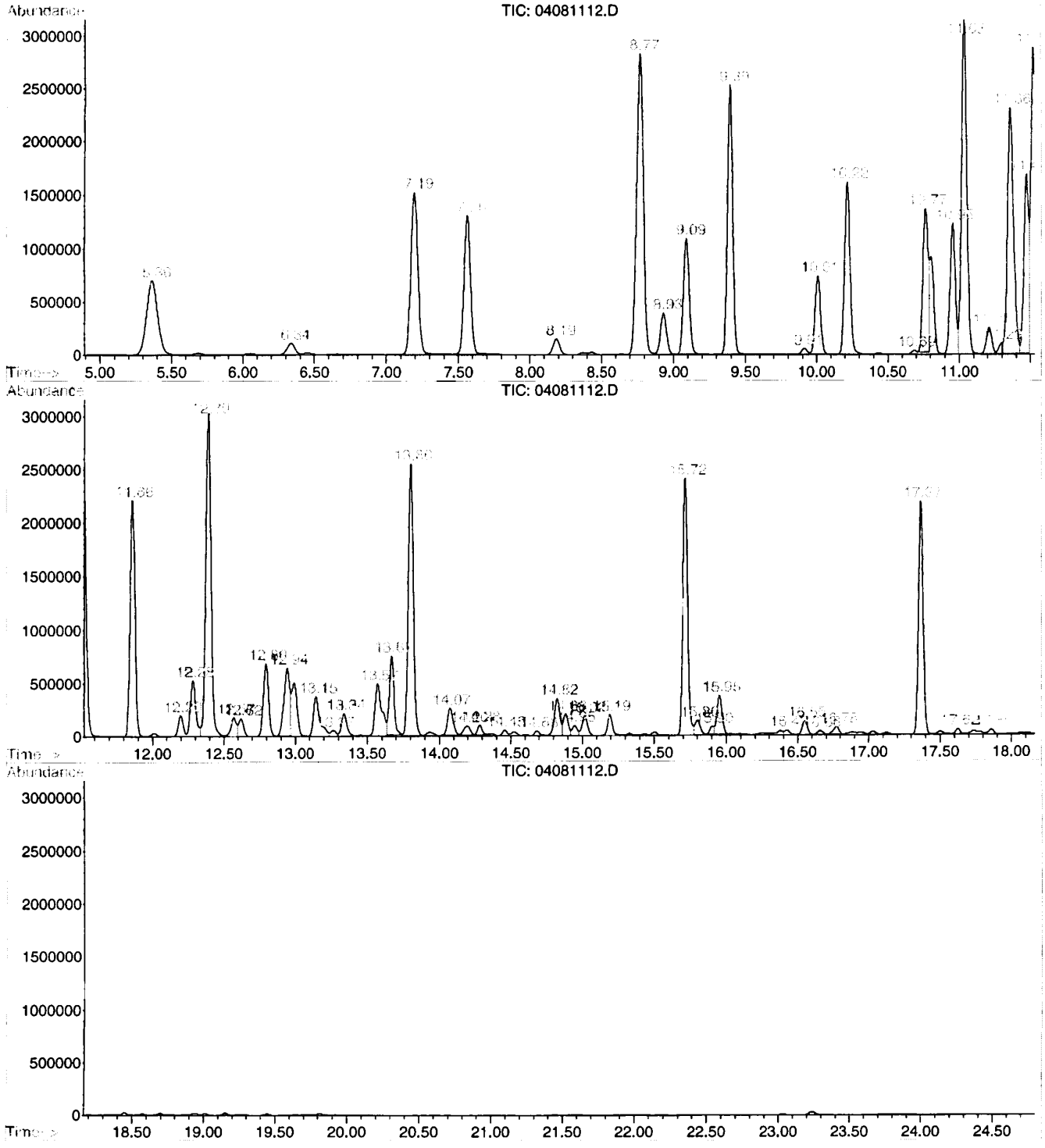
44	15.018	1929	1937	1953	rVB2	188752	497832	5.43%	0.408%
45	15.191	1956	1970	1989	rBV2	199406	493512	5.38%	0.405%
46	15.719	2059	2071	2082	rBV	2420737	5700400	62.17%	4.676%
47	15.803	2082	2087	2097	rVV	136565	337427	3.68%	0.277%
48	15.902	2098	2106	2109	rVV	74366	163499	1.78%	0.134%
49	15.954	2109	2116	2127	rVB	367851	892747	9.74%	0.732%
50	16.425	2201	2206	2218	rVB2	44464	109481	1.19%	0.090%
51	16.551	2218	2230	2241	rVB	132568	340212	3.71%	0.279%
52	16.655	2241	2250	2260	rBV6	39506	103803	1.13%	0.085%
53	16.776	2260	2273	2282	rVB6	73386	218530	2.38%	0.179%
54	17.367	2370	2386	2405	rBV	2202128	4968575	54.19%	4.075%
55	17.623	2427	2435	2442	rBV2	51268	106840	1.17%	0.088%
56	17.858	2474	2480	2488	rVB2	50117	111489	1.22%	0.091%

Sum of corrected areas: 121916466

04081112.D 040711V1.M Thu Apr 14 16:51:11 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040811\04081112.D
Operator : Michael Truchan/Rachel Hill
Acquired : 8 Apr 2011 11:54 pm using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-015A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 10
Quant File :040711V1.RES (RTE Integrator)



04081112.D 040711V1.M Thu Apr 14 16:51:12 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 1 Carbon dioxide Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	13.25 ppbv	3892120	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3
5	Nitrous Oxide	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	17.67 ppbv	5189950	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Propene, 2-methyl- $$ Propene, 2-	56	C4H8	000115-11-7	9
5	3-Buten-1-ol	72	C4H8O	000627-27-0	9

****

Peak Number 3 Pentane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	13.95 ppbv	4097250	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	53
5	Butane, 2-methyl-	72	C5H12	000078-78-4	10

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Butane, 2,2-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.19	1.65 ppbv	484149	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	90
2	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	59
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42

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Peak Number 5 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.77	31.22 ppbv	9169500	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	64
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	53

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	10.42 ppbv	3061300	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	6.76 ppbv	1984430	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Hexane	86	C6H14	000110-54-3	59
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	14.71 ppbv	4321490	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
3	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	49

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	10.80 ppbv	3171170	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Cyclopentane, 1,1-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.25 ppbv	661884	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	90
2	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	87
3	1-Hexene, 3-methyl- $$ 3-Methyl-1-h	98	C7H14	003404-61-3	40
4	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	38
5	1-Hexene, 5-methyl- $$ 5-Methyl-1-h	98	C7H14	003524-73-0	32

****

Peak Number 11 Hexane, 2,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	16.77 ppbv	6935270	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Pentane, 2,2,4-trimethyl- $$ Isobut	114	C8H18	000540-84-1	72
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	64
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64

****

Peak Number 12 Hexane, 2,4-dimethyl- $$ 2,4-D Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.46 ppbv	1428860	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	60
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
3	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
5	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	42

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 Cyclohexane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	18.54 ppbv	7666620	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	64

****

Peak Number 14 Pentane, 2,3,4-trimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	4.27 ppbv	1763470	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
2	1-Heptene, 4-methyl- $$ 4-Methyl-1-	112	C8H16	013151-05-8	50
3	3,3-Dimethyl-2-pentanol	116	C7H16O	000000-00-0	50
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	50
5	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	49

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	4.54 ppbv	1878360	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	87
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	83
3	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	74
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
5	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	43

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.87 ppbv	1186230	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	68
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	49
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.11 ppbv	1701290	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 18 Octane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	4.00 ppbv	1652650	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
5	Heptane, 2,4-dimethyl- $$ 2,4-Dimet	128	C9H20	002213-23-2	56

Data File : C:\HPCHEM\1\DATA\040811\04081112.D Vial: 10
Acq On : 8 Apr 2011 11:54 pm Operator: Michael Truchan/Rachel Hill
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 4000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Cyclohexane, 1,2-dimethyl-, tr Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.07	1.54 ppbv	703500	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87

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Peak Number 20 Cyclohexane, ethyl- $$ Ethylcy Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	2.09 ppbv	951580	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	97
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	90

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 8 Apr 2011 11:54 pm
Data File: C:\HPCHEM\1\DATA\040811\04081112.D
Name: 1103609-015A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	13.2	ppbv	3892120	ISTD01	10.77	3671910	12.5
Butane, 2-methyl-	7.19	17.7	ppbv	5189950	ISTD01	10.77	3671910	12.5
Pentane	7.56	13.9	ppbv	4097250	ISTD01	10.77	3671910	12.5
Butane, 2,2-dimethyl	8.19	1.6	ppbv	484149	ISTD01	10.77	3671910	12.5
Pentane, 2-methyl-	8.77	31.2	ppbv	9169500	ISTD01	10.77	3671910	12.5
Pentane, 3-methyl-	9.09	10.4	ppbv	3061300	ISTD01	10.77	3671910	12.5
Pentane, 2,4-dimethy	10.01	6.8	ppbv	1984430	ISTD01	10.77	3671910	12.5
Cyclopentane, methyl	10.22	14.7	ppbv	4321490	ISTD01	10.77	3671910	12.5
Pentane, 2,3-dimethy	10.95	10.8	ppbv	3171170	ISTD01	10.77	3671910	12.5
Cyclopentane, 1,1-di	11.21	2.3	ppbv	661884	ISTD01	10.77	3671910	12.5
Hexane, 2,2-dimethyl	11.36	16.8	ppbv	6935270	ISTD02	11.86	5168090	12.5
Hexane, 2,4-dimethyl	12.28	3.5	ppbv	1428860	ISTD02	11.86	5168090	12.5
Cyclohexane, methyl-	12.39	18.5	ppbv	7666620	ISTD02	11.86	5168090	12.5
Pentane, 2,3,4-trime	12.80	4.3	ppbv	1763470	ISTD02	11.86	5168090	12.5
Heptane, 2-methyl-	12.94	4.5	ppbv	1878360	ISTD02	11.86	5168090	12.5
Heptane, 3-methyl-	13.15	2.9	ppbv	1186230	ISTD02	11.86	5168090	12.5
Cyclohexane, 1,3-dim	13.57	4.1	ppbv	1701290	ISTD02	11.86	5168090	12.5
Octane	13.67	4.0	ppbv	1652650	ISTD02	11.86	5168090	12.5
Cyclohexane, 1,2-dim	14.07	1.5	ppbv	703500	ISTD03	15.72	5700400	12.5
Cyclohexane, ethyl-	14.82	2.1	ppbv	951580	ISTD03	15.72	5700400	12.5

04081112.D 040711V1.M Thu Apr 14 16:51:13 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081114.D Vial: 12
Acq On : 9 Apr 2011 1:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:14 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	619134	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2230978	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1627775	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1000395	12.24	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.92%				
Target Compounds							Qvalue
-17) Methylene chloride	8.93	49	89544	1.43	ppbv		92
20) n-Hexane*	9.39	57	1923052	22.06	ppbv		98
29) Cyclohexane*	11.03	56	1779689	20.37	ppbv	#	81
31) Benzene*	11.47	78	1008432	7.26	ppbv		95
34) Heptane*	11.52	43	1422262	13.99	ppbv	#	93
41) Toluene*	13.81	91	1496837	9.70	ppbv		99
-51) m,p-Xylene	15.95	91	137989	1.06	ppbv		93

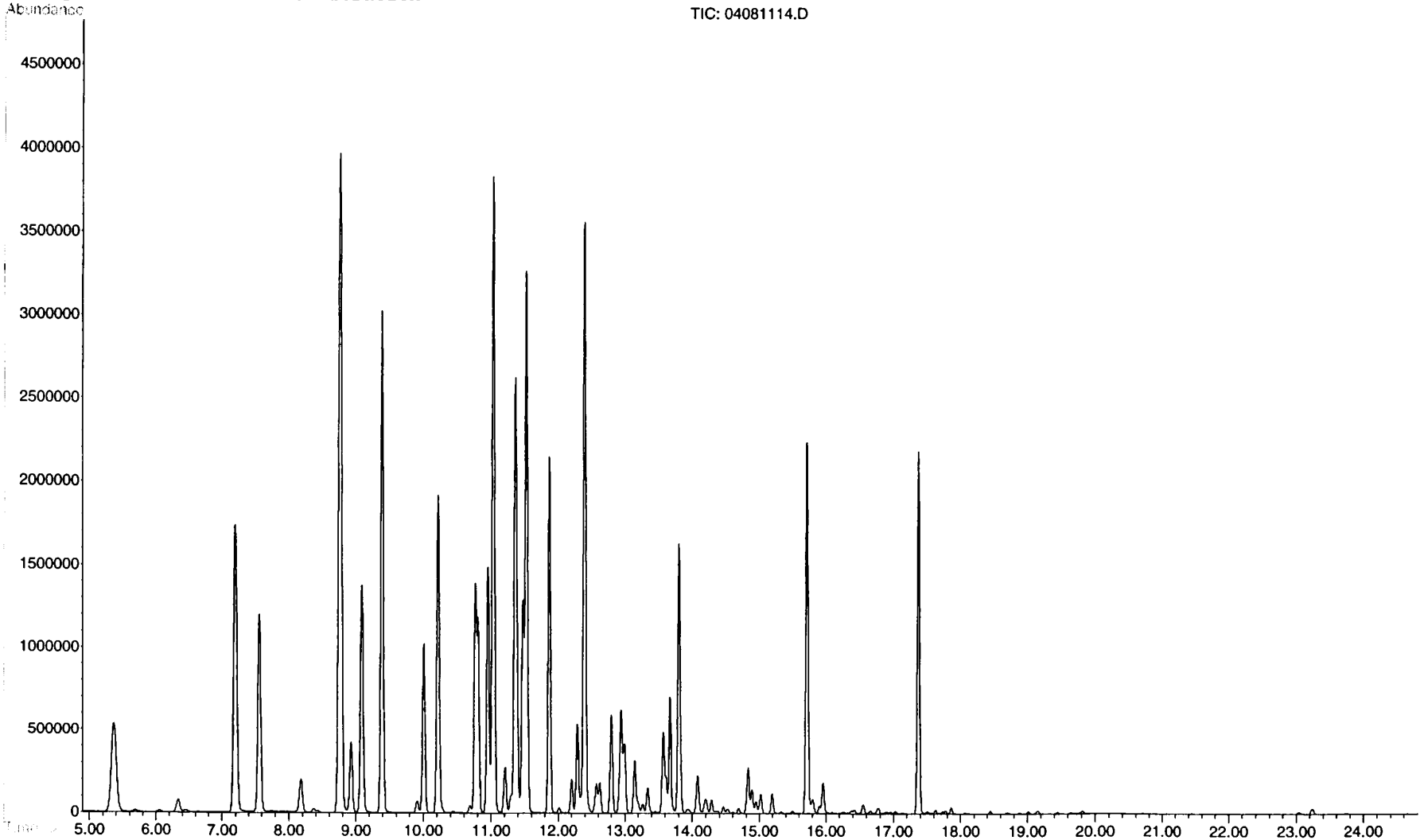
* = reported only 4/15/11 AP

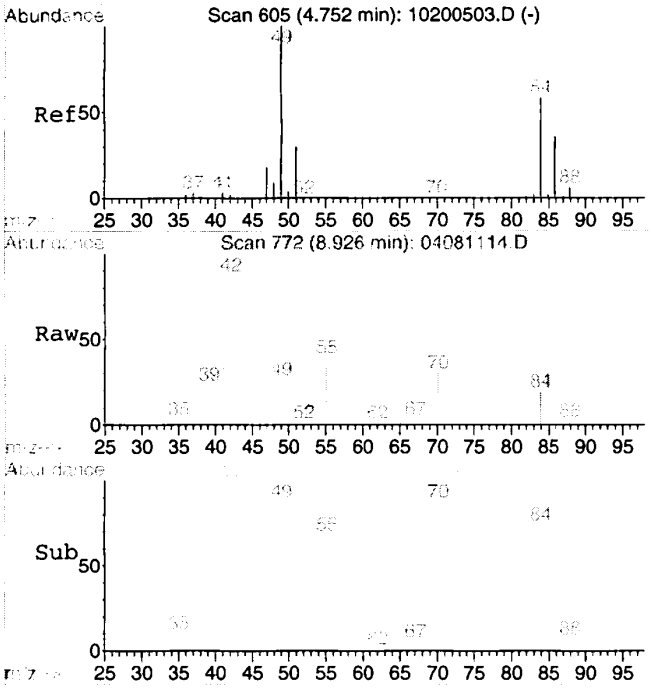
(#) = qualifier out of range (m) = manual integration
04081114.D 040711V1.M Thu Apr 14 16:51:26 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081114.D Vial: 12
Acq On : 9 Apr 2011 1:16 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:14 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

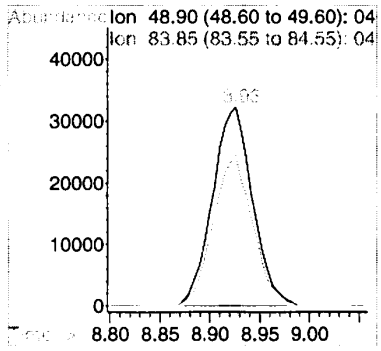


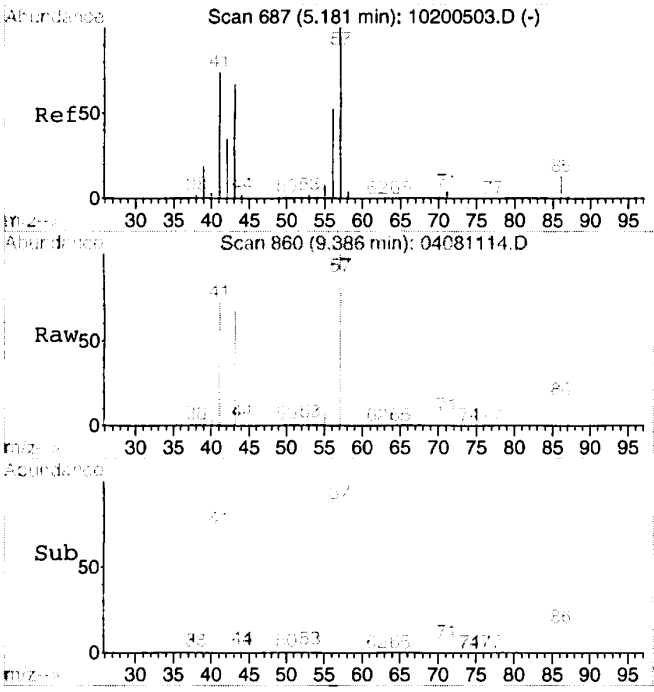


#17
Methylene chloride
Concen: 1.43 ppbv
RT: 8.93 min Scan# 772
Delta R.T. -0.00 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 49 Resp: 89544

Ion	Ratio	Lower	Upper
49	100		
84	74.8	65.4	98.2
86	47.6	42.3	63.5

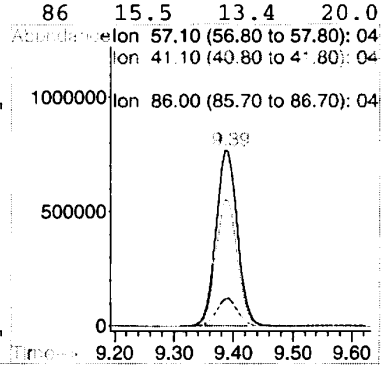


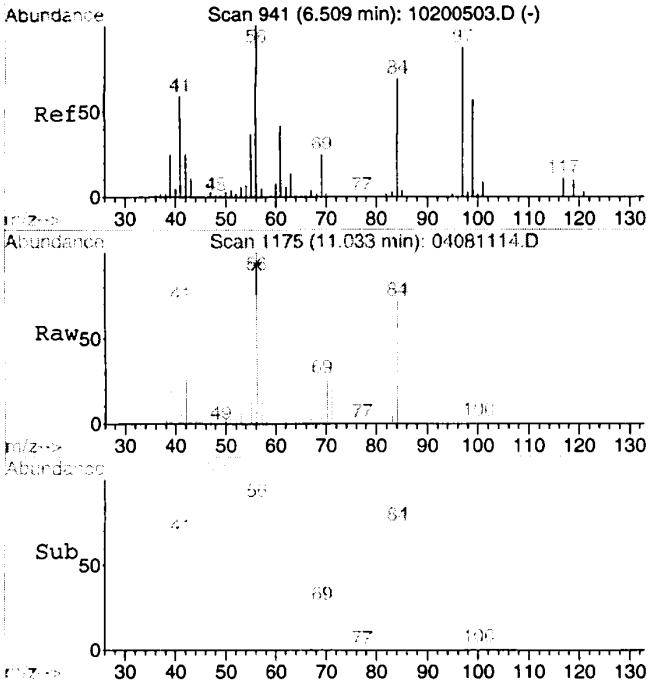


#20
n-Hexane
Concen: 22.06 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.01 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 57 Resp: 1923052

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.5	1.8	2.8
86	15.5	13.4	20.0

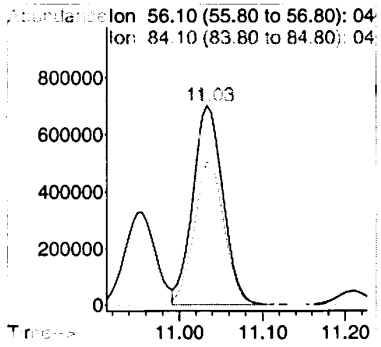


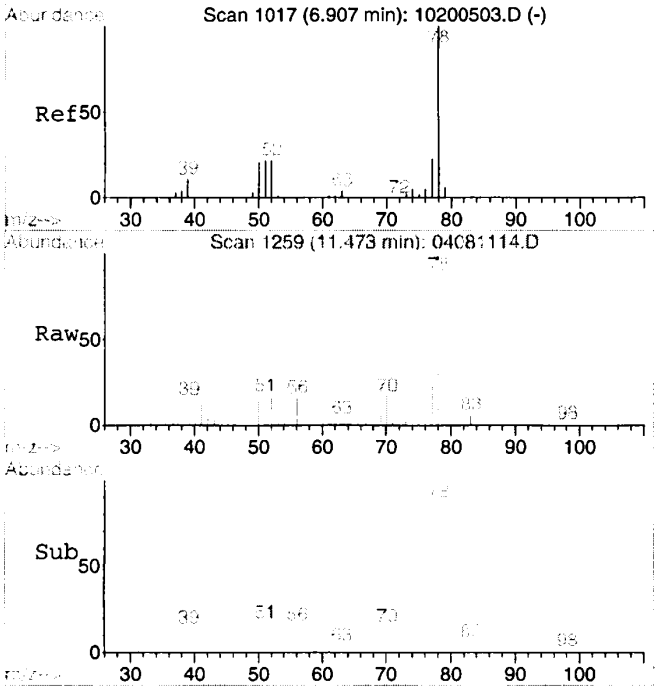


#29
Cyclohexane
Concen: 20.37 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 56 Resp: 1779689

Ion	Ratio	Lower	Upper
56	100		
84	72.3	72.4	108.6#
41	69.2	43.8	65.8#

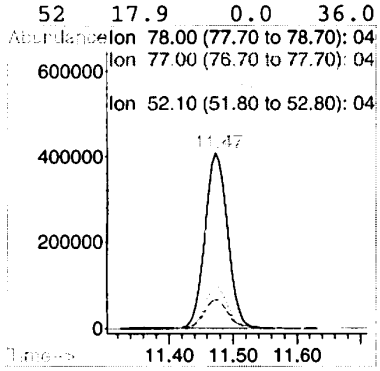


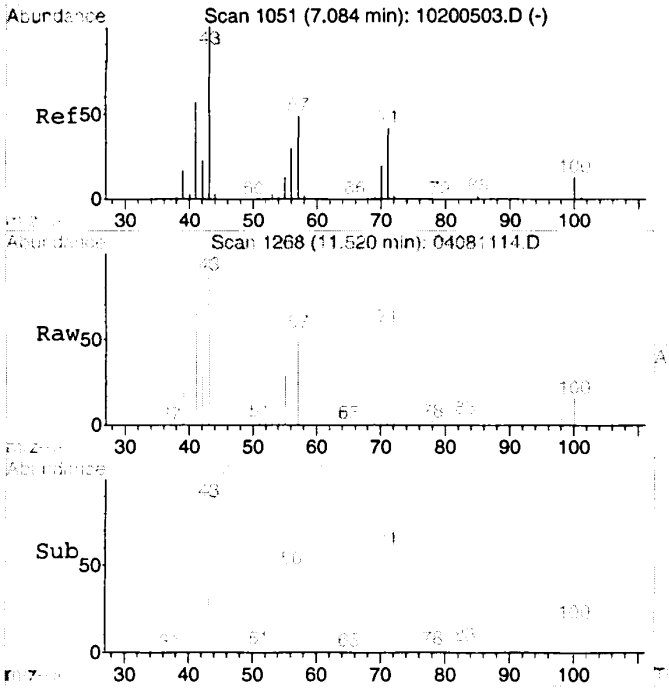


#31
Benzene
Concen: 7.26 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 78 Resp: 1008432

Ion	Ratio	Lower	Upper
78	100		
77	24.6	3.7	43.7
51	20.6	0.0	36.1
52	17.9	0.0	36.0

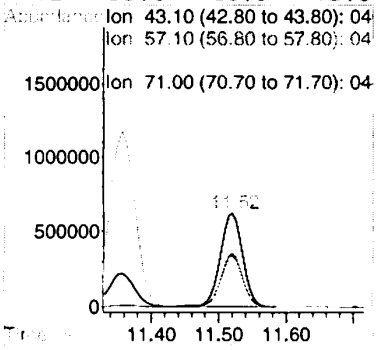


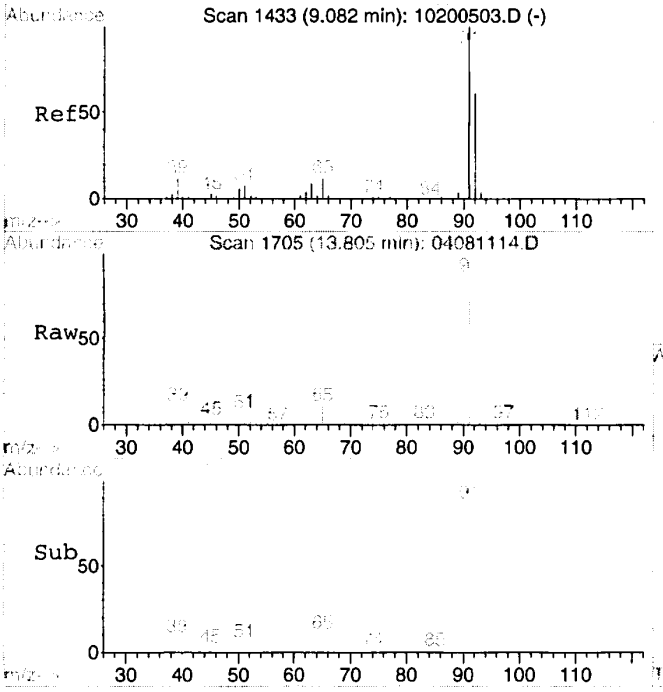


#34
Heptane
Concen: 13.99 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 43 Resp: 1422262

Ion	Ratio	Lower	Upper
43	100		
57	56.0	42.2	63.4
100	15.3	17.3	25.9#
71	55.8	48.3	72.5

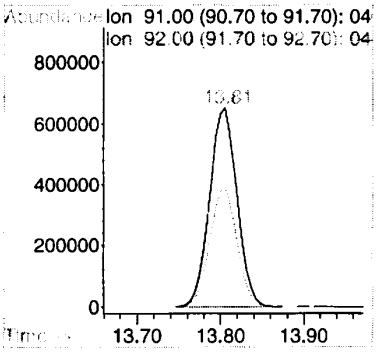


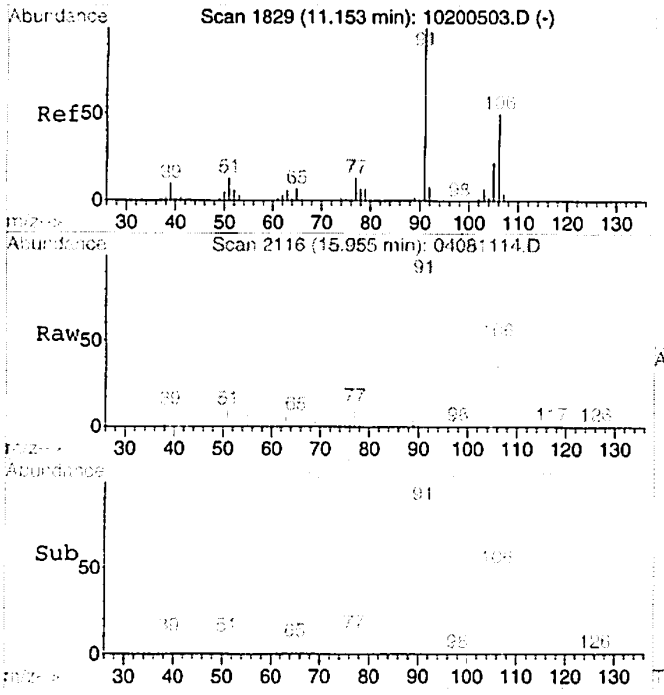


#41
Toluene
Concen: 9.70 ppbv
RT: 13.81 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 91 Resp: 1496837

Ion	Ratio	Lower	Upper
91	100		
92	59.4	40.5	80.5
65	11.2	0.0	31.2

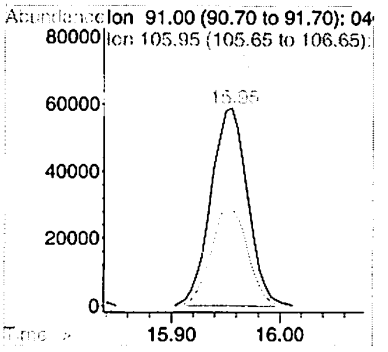




#51
m,p-Xylene
Concen: 1.06 ppbv
RT: 15.95 min Scan# 2116
Delta R.T. -0.00 min
Lab File: 04081114.D
Acq: 9 Apr 2011 1:16 am

Tgt Ion: 91 Resp: 137989

Ion	Ratio	Lower	Upper
91	100		
106	49.8	35.6	75.6
51	10.1	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081115.D Vial: 13
Acq On : 9 Apr 2011 1:58 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:14 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	601709	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2141120	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1555462	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	939654	12.03	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.24%				
Target Compounds							Qvalue
20) n-Hexane*	9.39	57	1902442	22.45	ppbv		98
29) Cyclohexane*	11.04	56	1750234	20.62	ppbv	#	80
31) Benzene*	11.47	78	980554	7.26	ppbv		94
34) Heptane*	11.52	43	1372192	14.06	ppbv	#	93
41) Toluene*	13.80	91	1435654	9.70	ppbv		98
51) m,p-Xylene	15.95	91	134012	1.08	ppbv		94

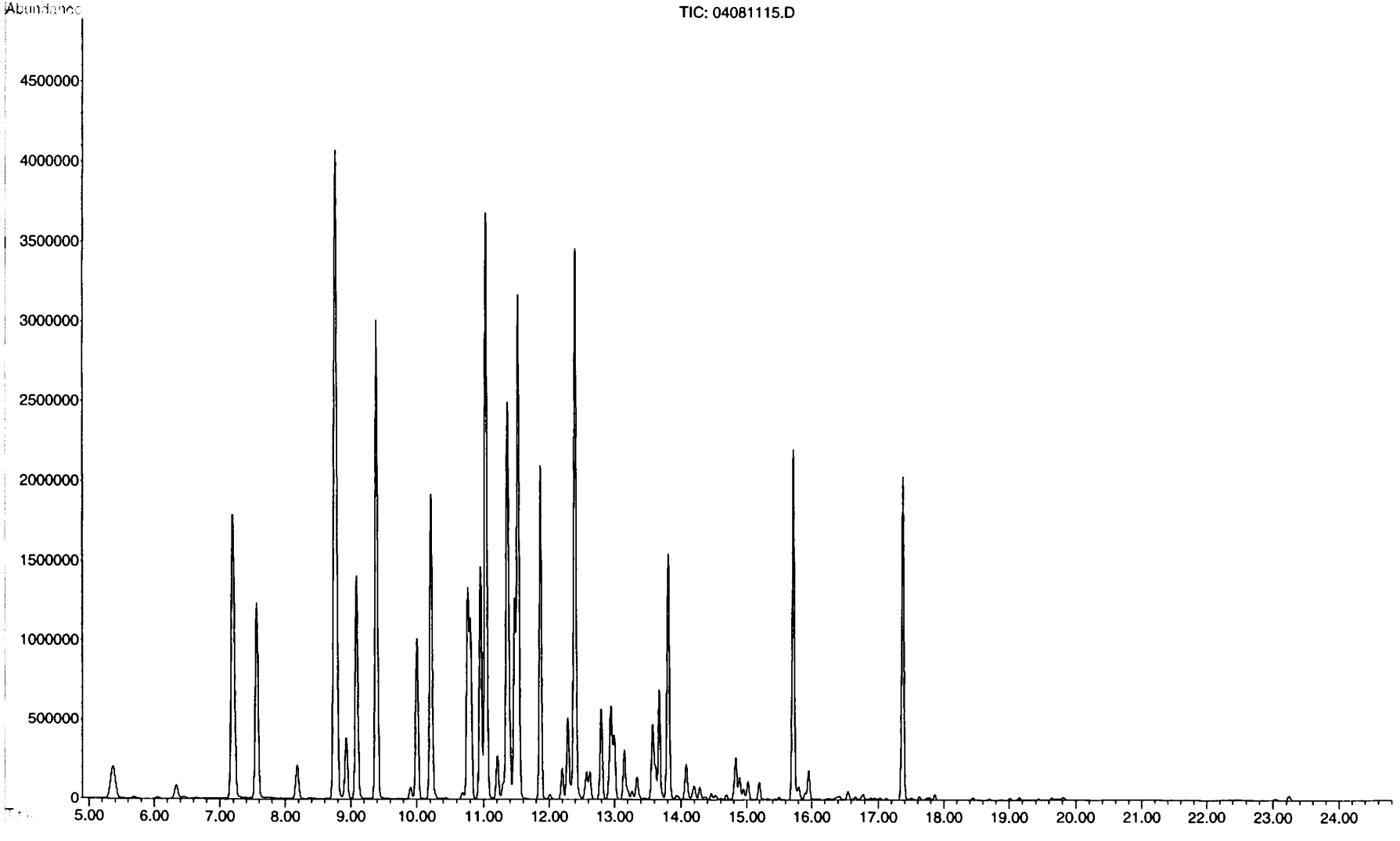
* = reported only 4/15/11 AP

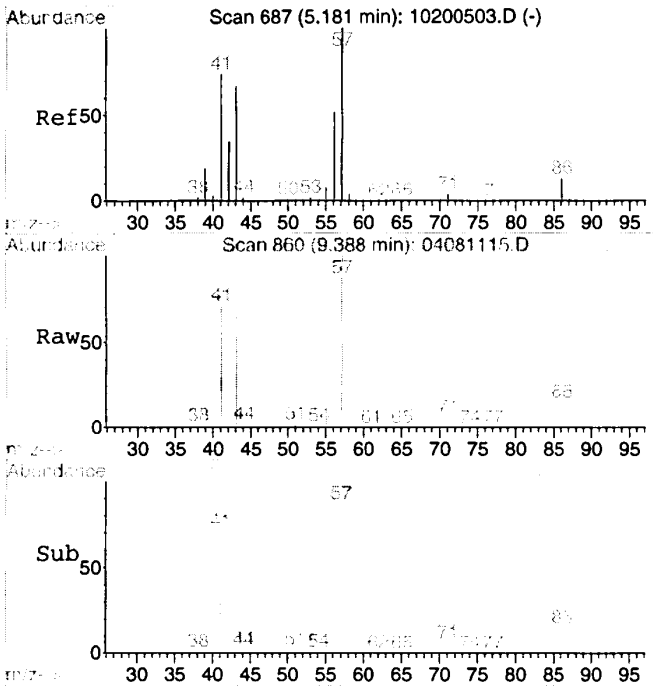
(#) = qualifier out of range (m) = manual integration
04081115.D 040711V1.M Thu Apr 14 16:51:37 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081115.D Vial: 13
Acq On : 9 Apr 2011 1:58 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:14 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

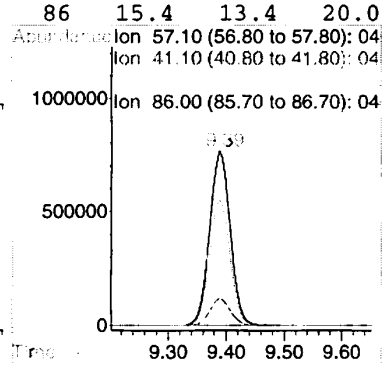


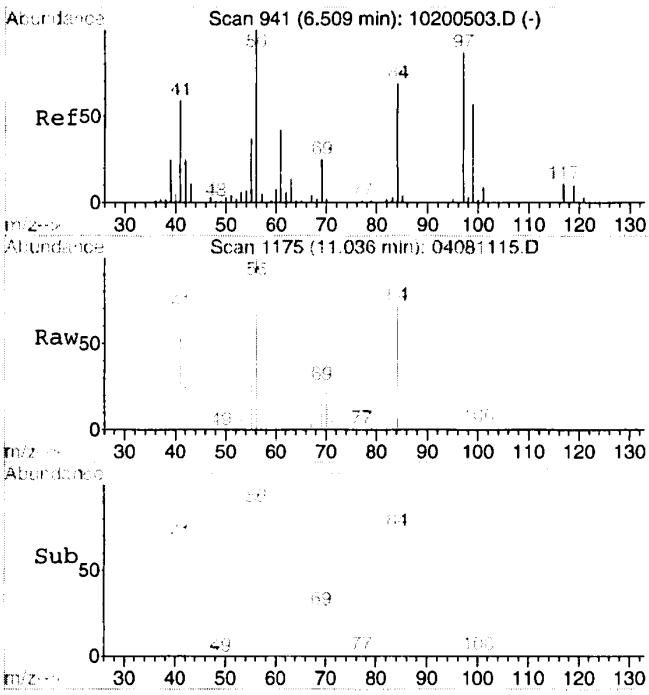


#20
n-Hexane
Concen: 22.45 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04081115.D
Acq: 9 Apr 2011 1:58 am

Tgt Ion: 57 Resp: 1902442

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

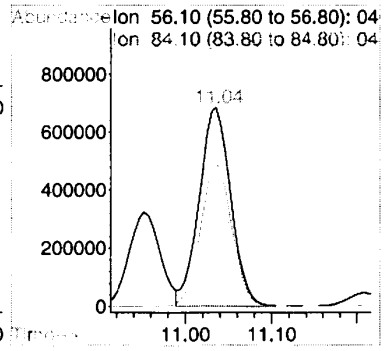


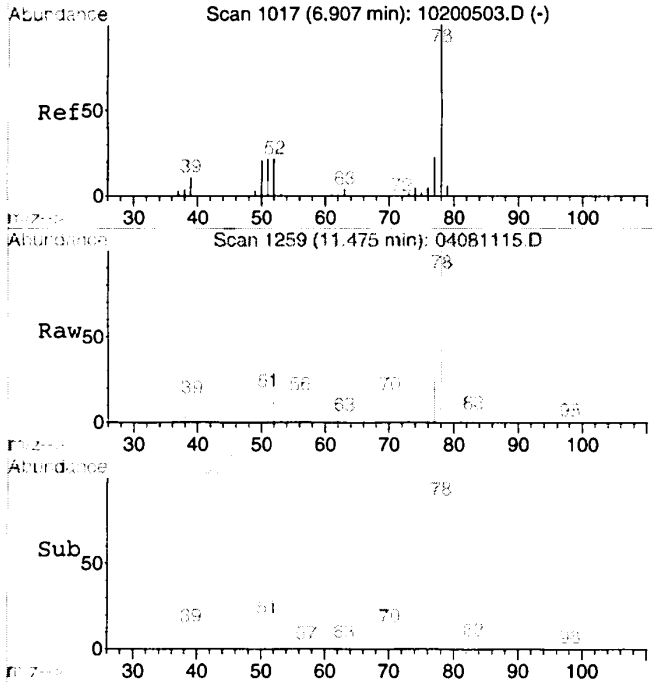


#29
Cyclohexane
Concen: 20.62 ppbv
RT: 11.04 min Scan# 1175
Delta R.T. 0.00 min
Lab File: 04081115.D
Acq: 9 Apr 2011 1:58 am

Tgt Ion: 56 Resp: 1750234

Ion	Ratio	Lower	Upper
56	100		
84	71.7	72.4	108.6#
41	69.3	43.8	65.8#

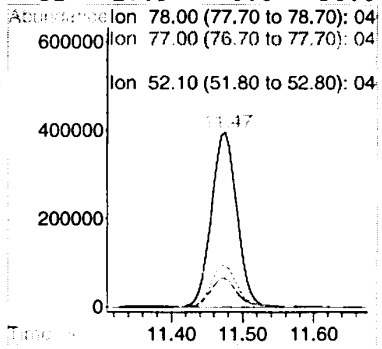


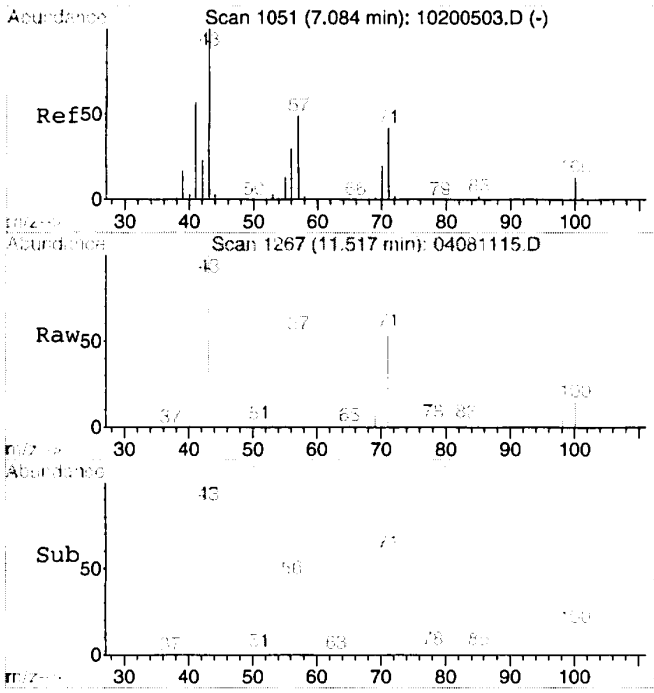


#31
Benzene
Concen: 7.26 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. 0.00 min
Lab File: 04081115.D
Acq: 9 Apr 2011 1:58 am

Tgt Ion: 78 Resp: 980554

Ion	Ratio	Lower	Upper
78	100		
77	25.0	3.7	43.7
51	20.7	0.0	36.1
52	17.9	0.0	36.0

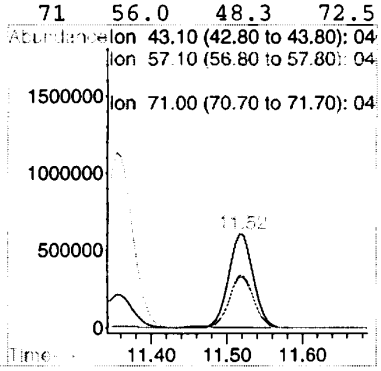


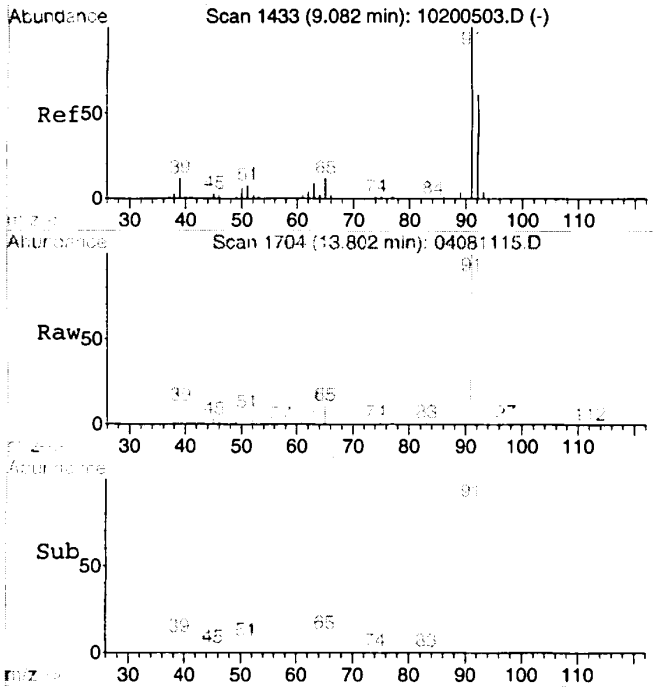


#34
Heptane
Concen: 14.06 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04081115.D
Acq: 9 Apr 2011 1:58 am

Tgt Ion: 43 Resp: 1372192

Ion	Ratio	Lower	Upper
43	100		
57	56.2	42.2	63.4
100	15.4	17.3	25.9#
71	56.0	48.3	72.5

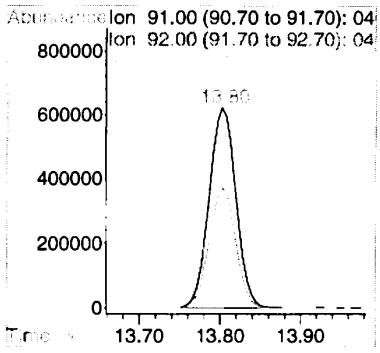


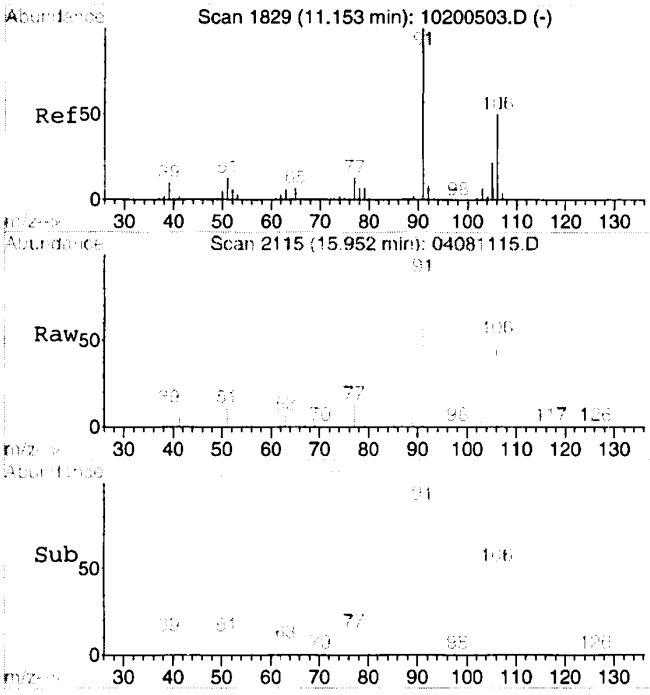


#41
Toluene
Concen: 9.70 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04081115.D
Acq: 9 Apr 2011 1:58 am

Tgt Ion: 91 Resp: 1435654

Ion	Ratio	Lower	Upper
91	100		
92	59.0	40.5	80.5
65	11.1	0.0	31.2

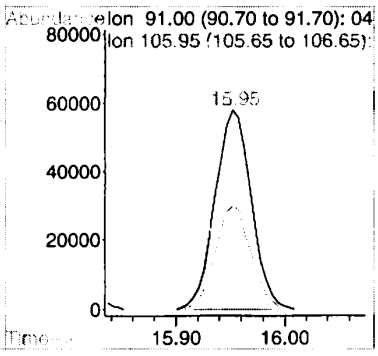




#51
m,p-Xylene
Concen: 1.08 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04081115.D
Acq: 9 Apr 2011 1:58 am

Tgt Ion: 91 Resp: 134012

Ion	Ratio	Lower	Upper
91	100		
106	50.6	35.6	75.6
51	10.2	0.0	29.6



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:18 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

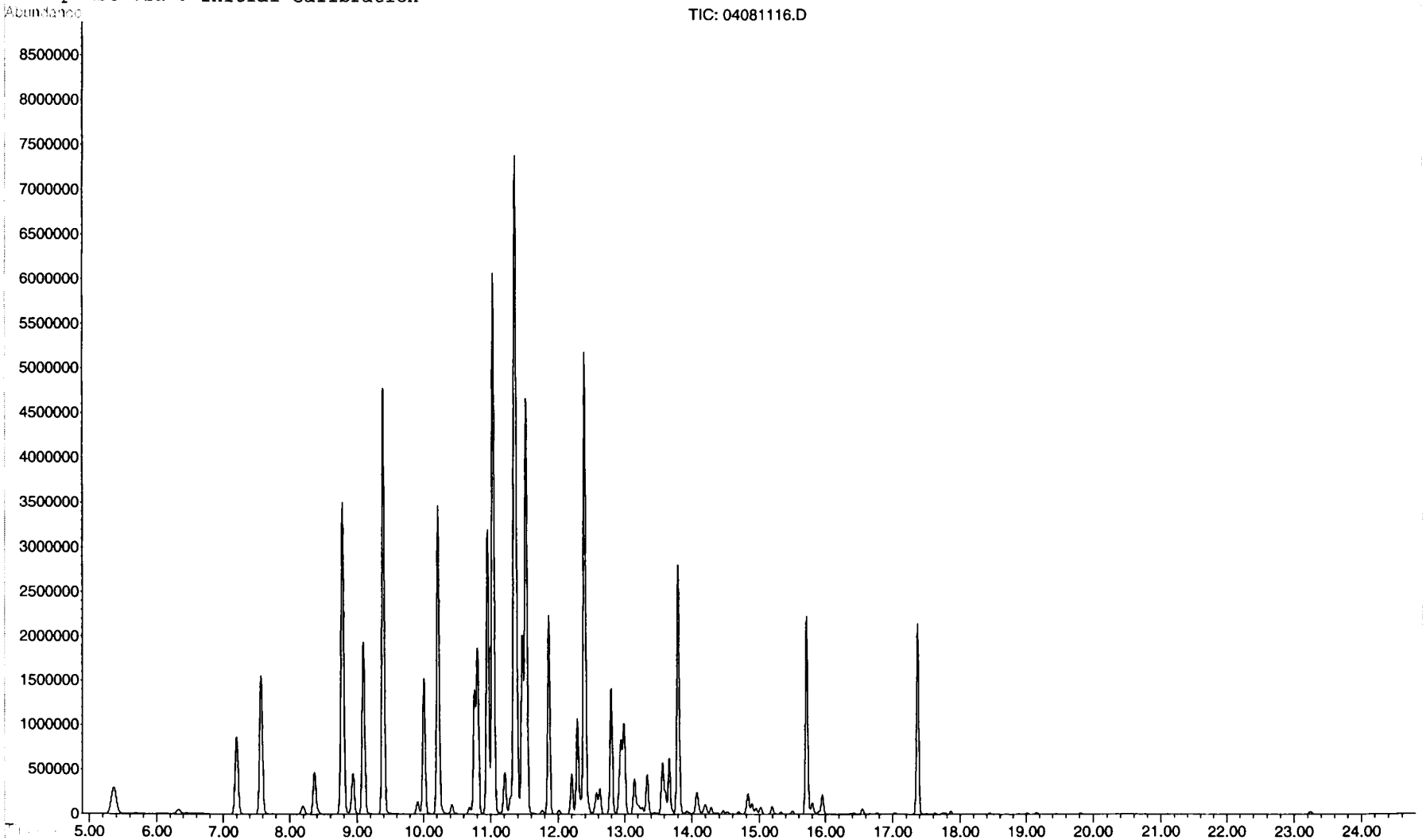
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	633753	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2291245	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1640442	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	980001	11.90	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 95.20%				
Target Compounds							Qvalue
14) Acetone	8.36	43	935226	12.95	ppbv	#	94
20) n-Hexane	9.40	57	3018736	33.83	ppbv		99
24) 2-Butanone	10.42	43	194880	2.55	ppbv	#	89
29) Cyclohexane	11.03	56	2831861	31.67	ppbv	#	80
31) Benzene	11.47	78	1414357	9.94	ppbv		94
34) Heptane	11.52	43	1972626	18.89	ppbv	#	93
41) Toluene	13.80	91	2590261	16.35	ppbv		99
51) m,p-Xylene	15.95	91	172637	1.32	ppbv		94

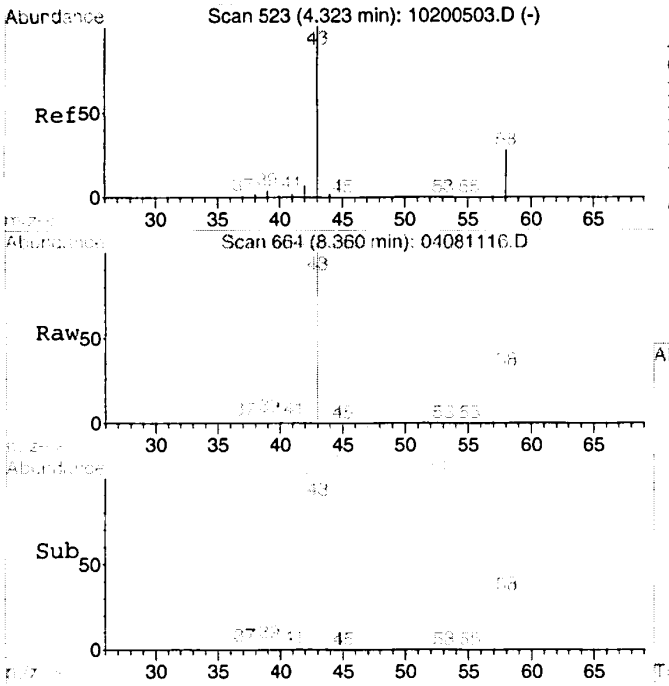
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:18 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

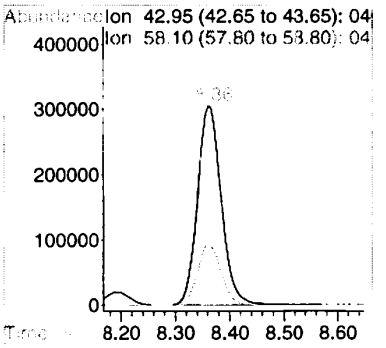


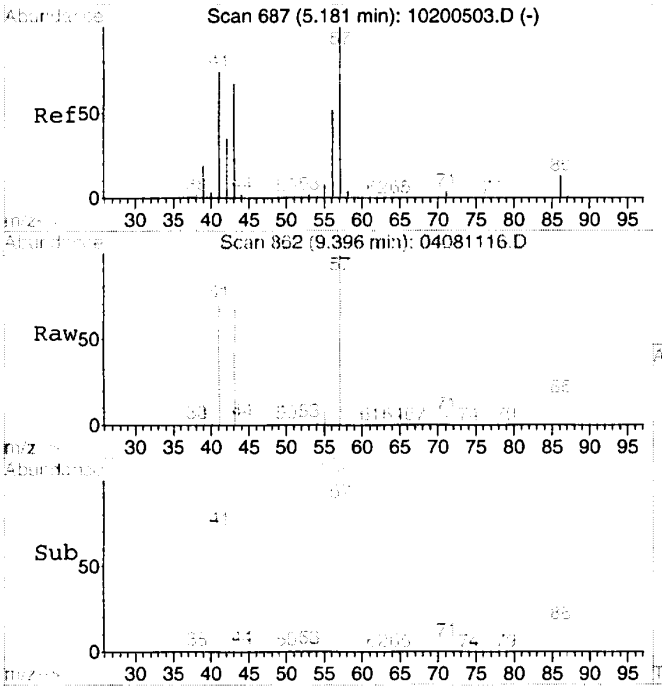


#14
Acetone
Concen: 12.95 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 43 Resp: 935226

Ion	Ratio	Lower	Upper
43	100		
58	30.2	22.0	33.0
39	4.3	6.5	9.7#

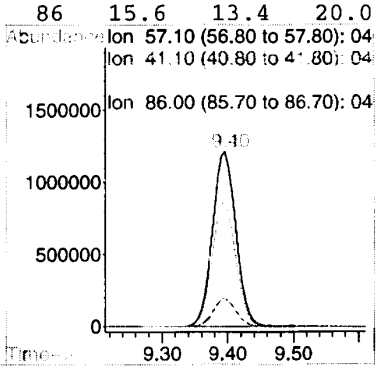


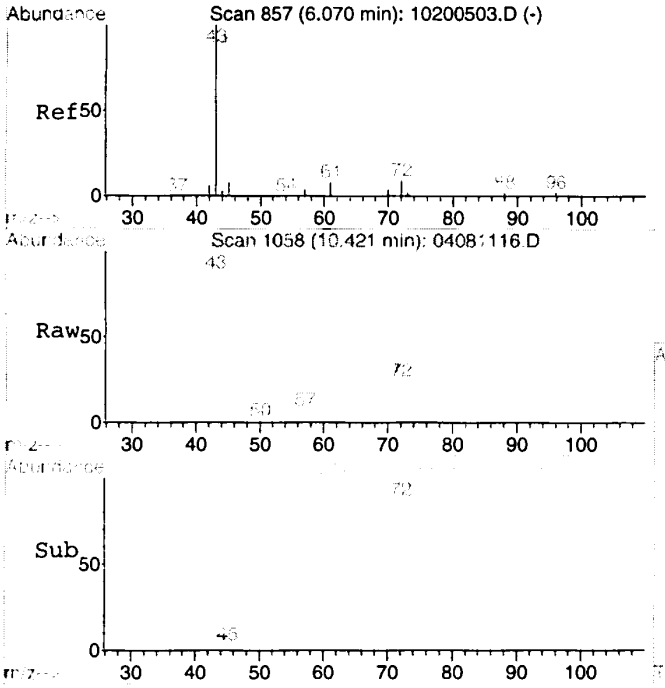


#20
n-Hexane
Concen: 33.83 ppbv
RT: 9.40 min Scan# 862
Delta R.T. 0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 57 Resp: 3018736

Ion	Ratio	Lower	Upper
57	100		
41	72.4	57.2	85.8
53	2.5	1.8	2.8
86	15.6	13.4	20.0

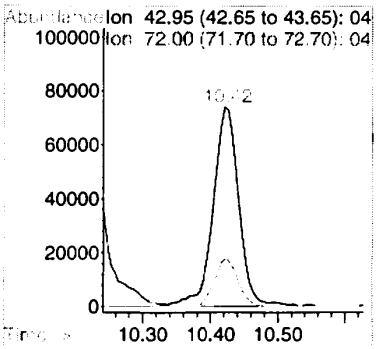


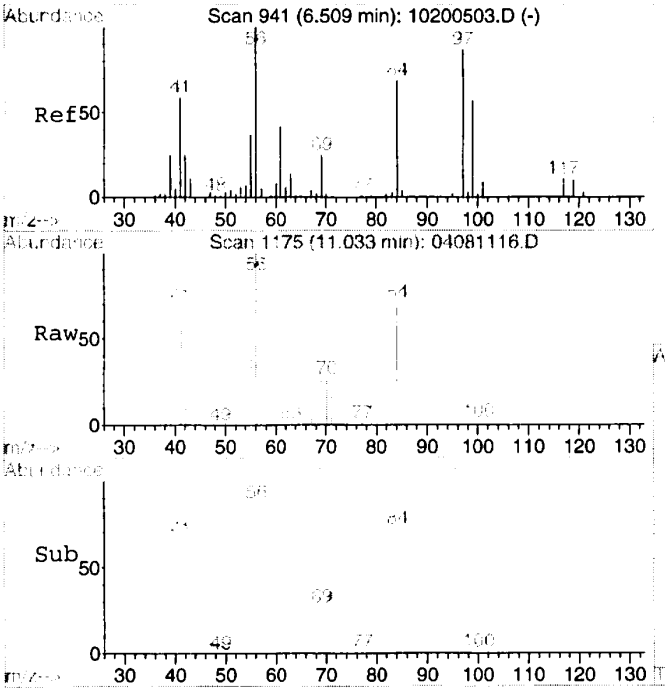


#24
2-Butanone
Concen: 2.55 ppbv
RT: 10.42 min Scan# 1058
Delta R.T. 0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 43 Resp: 194880

Ion	Ratio	Lower	Upper
43	100		
72	21.9	23.4	35.2#
57	7.3	6.9	10.3

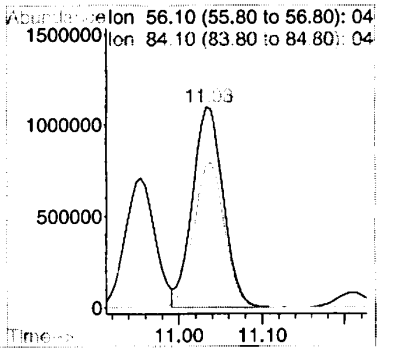


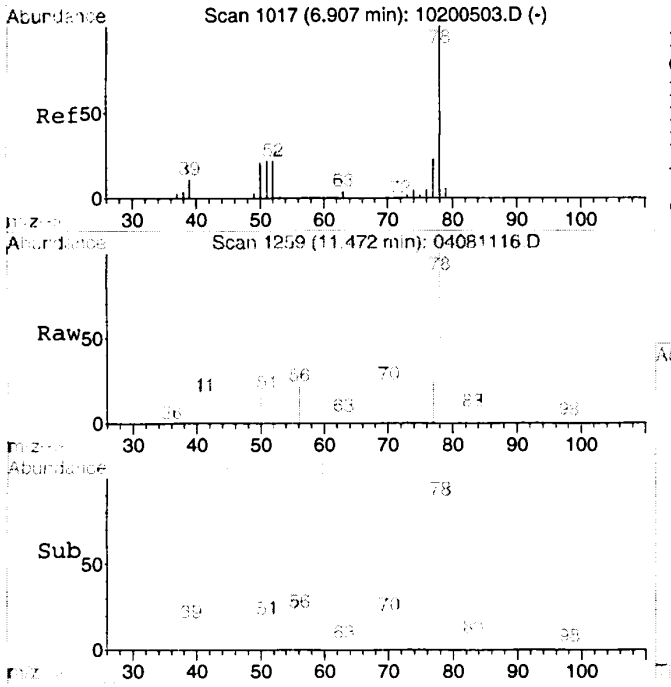


#29
Cyclohexane
Concen: 31.67 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 56 Resp: 2831861

Ion	Ratio	Lower	Upper
56	100		
84	71.9	72.4	108.6#
41	68.8	43.8	65.8#

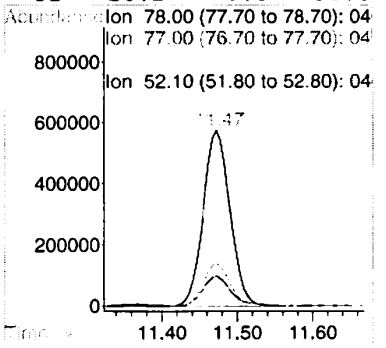


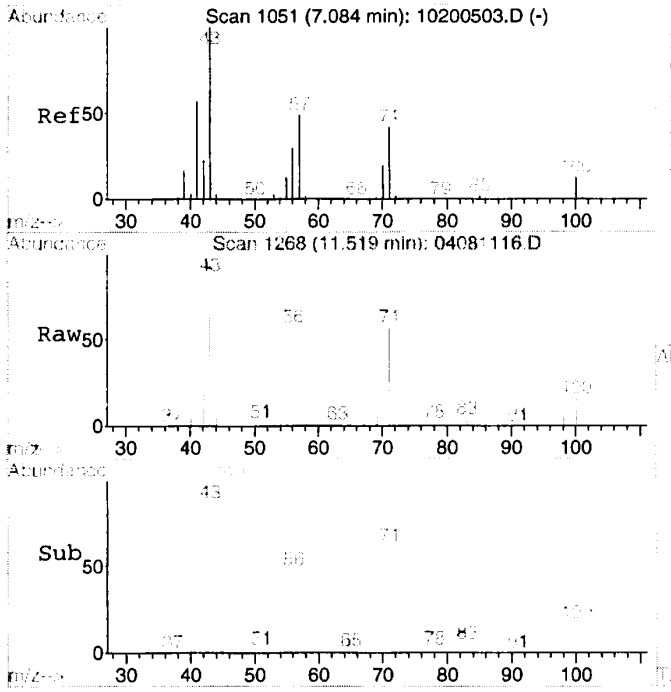


#31
Benzene
Concen: 9.94 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 78 Resp: 1414357

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	21.2	0.0	36.1
52	18.2	0.0	36.0

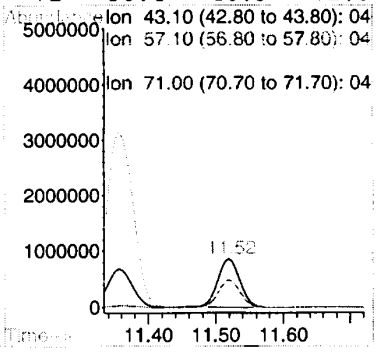


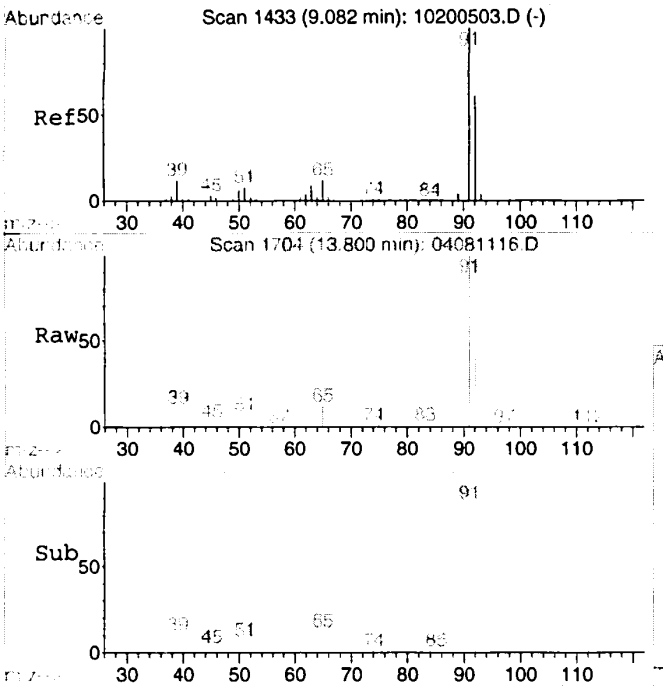


#34
Heptane
Concen: 18.89 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 43 Resp: 1972626

Ion	Ratio	Lower	Upper
43	100		
57	58.0	42.2	63.4
100	15.3	17.3	25.9#
71	56.4	48.3	72.5

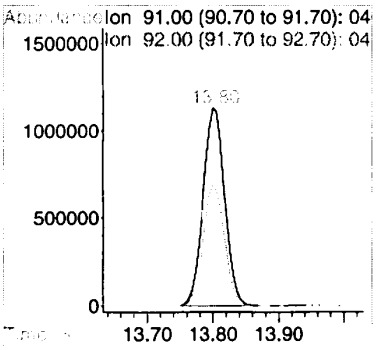


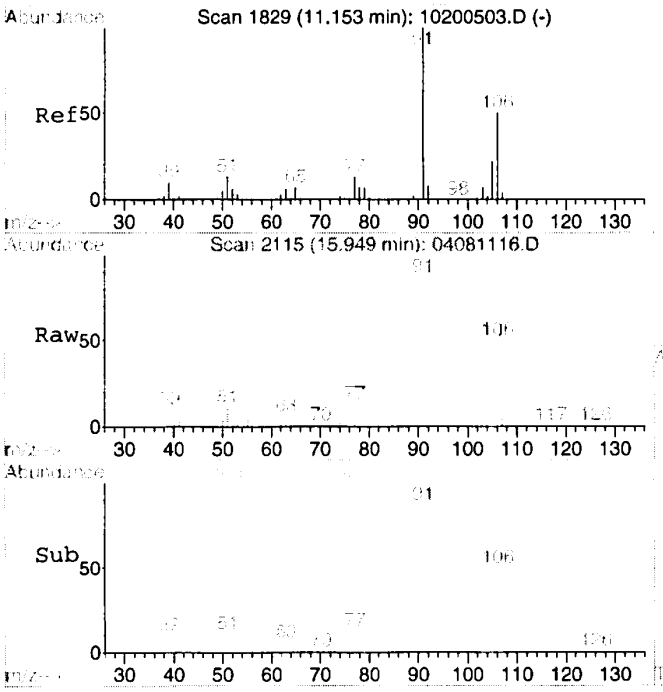


#41
Toluene
Concen: 16.35 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 91 Resp: 2590261

Ion	Ratio	Lower	Upper
91	100		
92	59.8	40.5	80.5
65	11.5	0.0	31.2

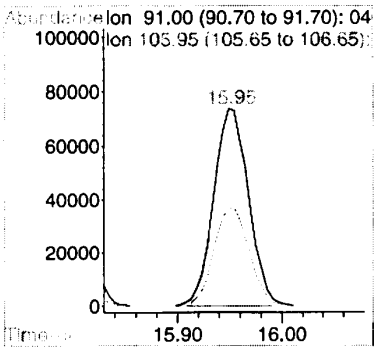




#51
m,p-Xylene
Concen: 1.32 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.01 min
Lab File: 04081116.D
Acq: 9 Apr 2011 2:40 am

Tgt Ion: 91 Resp: 172637

Ion	Ratio	Lower	Upper
91	100		
106	50.4	35.6	75.6
51	10.3	0.0	29.6



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

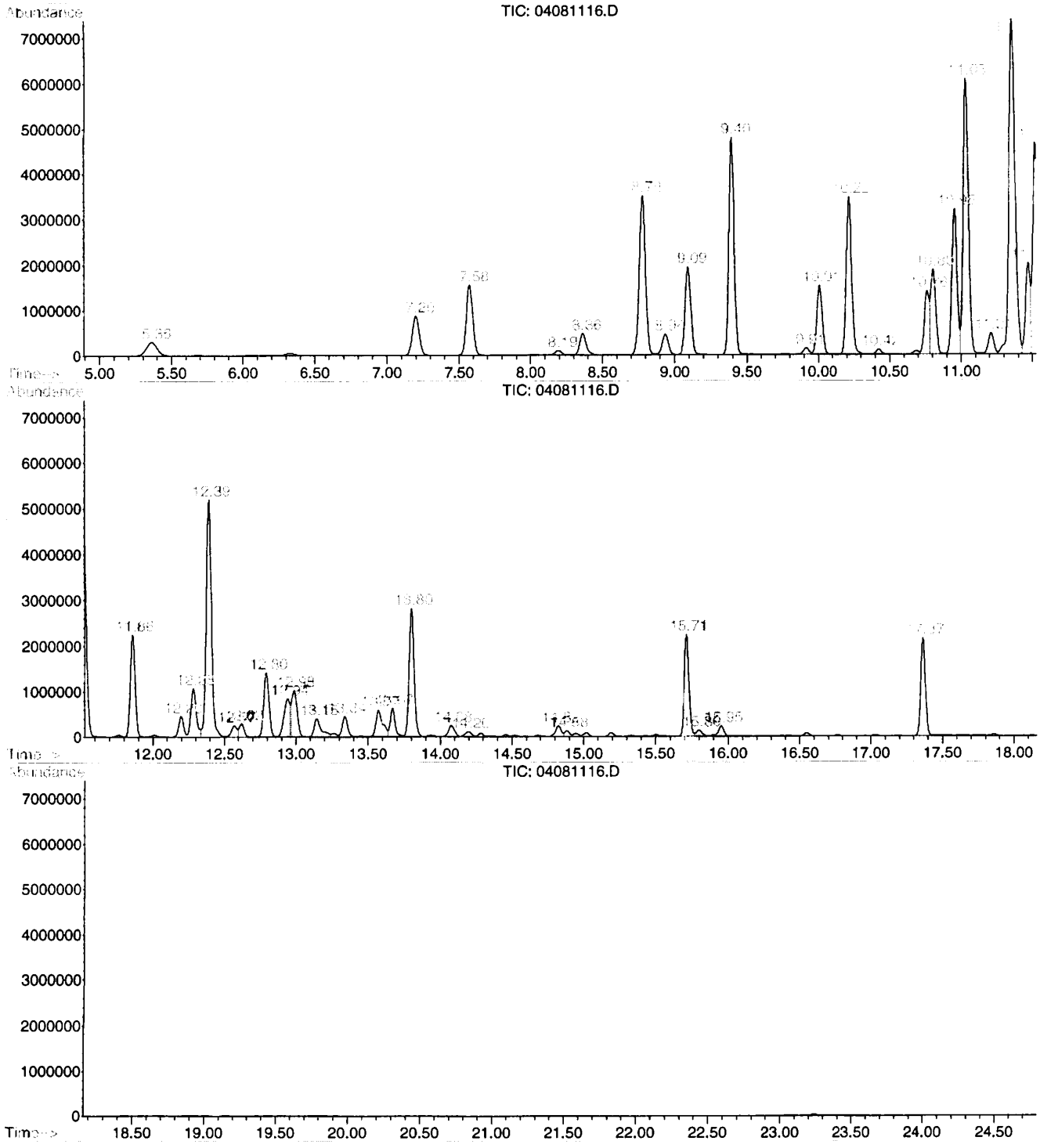
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	67	91	117	rBV	302139	1630989	7.31%	0.888%
2	7.199	426	442	463	rBV	873094	2917728	13.07%	1.589%
3	7.576	496	514	535	rBV	1561119	4870544	21.83%	2.653%
4	8.193	621	632	645	rBV3	99776	322831	1.45%	0.176%
5	8.360	652	664	691	rBV	475187	1508405	6.76%	0.822%
6	8.779	727	744	761	rBV	3508552	10382973	46.53%	5.655%
7	8.936	761	774	790	rVB2	458527	1354163	6.07%	0.738%
8	9.093	790	804	821	rBV	1945208	5364926	24.04%	2.922%
9	9.396	845	862	884	rBV	4791165	11982045	53.69%	6.526%
10	9.914	949	961	968	rBV2	143001	400095	1.79%	0.218%
11	10.008	968	979	995	rVB	1533740	4037238	18.09%	2.199%
12	10.217	1005	1019	1042	rBV	3470853	9083509	40.70%	4.947%
13	10.421	1050	1058	1070	rBV	106300	252667	1.13%	0.138%
14	10.761	1114	1123	1127	rVV	1404909	3498282	15.68%	1.905%
15	10.803	1127	1131	1146	rVV	1878887	4440370	19.90%	2.418%
16	10.954	1146	1160	1167	rVV	3204234	8198559	36.74%	4.465%
17	11.033	1167	1175	1195	rVV2	6080414	15556510	69.71%	8.473%
18	11.211	1197	1209	1218	rVV	470930	1287322	5.77%	0.701%
19	11.357	1218	1237	1250	rVV	7397161	22315630	100.00%	12.154%
20	11.467	1250	1258	1262	rVV2	2023005	4824120	21.62%	2.627%
21	11.519	1262	1268	1300	rVV2	4676264	11736339	52.59%	6.392%
22	11.859	1322	1333	1349	rVV	2247078	5166147	23.15%	2.814%
23	12.199	1384	1398	1405	rBV	457793	1092181	4.89%	0.595%
24	12.283	1405	1414	1424	rVV2	1079098	2883121	12.92%	1.570%
25	12.393	1424	1435	1456	rVV	5192348	13246172	59.36%	7.214%
26	12.571	1456	1469	1474	rVV4	250199	729152	3.27%	0.397%
27	12.623	1474	1479	1494	rVB	294081	681661	3.05%	0.371%
28	12.795	1499	1512	1526	rBV2	1415718	3641642	16.32%	1.983%
29	12.942	1526	1540	1543	rVV4	839734	2386985	10.70%	1.300%
30	12.984	1545	1548	1568	rVB2	1027969	2397649	10.74%	1.306%
31	13.146	1568	1579	1597	rBV3	403190	1388614	6.22%	0.756%
32	13.339	1607	1616	1631	rVB	447529	1140909	5.11%	0.621%
33	13.570	1650	1660	1673	rBV	576467	1906933	8.55%	1.039%
34	13.669	1673	1679	1693	rVV	621913	1400897	6.28%	0.763%
35	13.800	1693	1704	1721	rVB	2816316	6731647	30.17%	3.666%
36	14.077	1740	1757	1769	rBV3	243983	721481	3.23%	0.393%
37	14.197	1769	1780	1789	rVV4	102169	288293	1.29%	0.157%
38	14.825	1886	1900	1907	rBV2	235541	654061	2.93%	0.356%
39	14.882	1907	1911	1918	rVV	127127	290916	1.30%	0.158%
40	15.714	2059	2070	2081	rBV	2239382	5184368	23.23%	2.824%
41	15.803	2081	2087	2099	rVB	130656	336969	1.51%	0.184%
42	15.954	2108	2116	2128	rVB	223990	541525	2.43%	0.295%
43	17.367	2374	2386	2401	rBV	2154552	4833065	21.66%	2.632%

Sum of corrected areas: 183609633

04081116.D 040711V1.M Thu Apr 14 16:52:02 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040811\04081116.D
Operator : Michael Truchan/Rachel Hill
Acquired : 9 Apr 2011 2:40 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-028A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 14
Quant File :040711V1.RES (RTE Integrator)



04081116.D 040711V1.M Thu Apr 14 16:52:02 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	5.83 ppbv	1630990	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.20	10.43 ppbv	2917730	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	3-Buten-1-ol	72	C4H8O	000627-27-0	9
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	9

****

Peak Number 3 Pentane $$ n-Pentane $$ Skelly Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.58	17.40 ppbv	4870540	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	64
5	Butane, 2-methyl- $$ iso-Pentane $$	72	C5H12	000078-78-4	36

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.78	37.10 ppbv	10383000	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	91
3	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	91
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	53
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	53

****

Peak Number 5 Cyclopentane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.94	4.84 ppbv	1354160	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	68
2	Cyclopentane $$ Pentamethylene $$ U	70	C5H10	000287-92-3	58
3	Cyclopropane, ethyl-	70	C5H10	001191-96-4	45
4	Cyclobutanone	70	C4H6O	001191-95-3	40
5	Cyclobutanone	70	C4H6O	001191-95-3	40

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	19.17 ppbv	5364930	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50
5	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- $$ 2,4- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.01	14.43 ppbv	4037240	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	74
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	32.46 ppbv	9083510	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	53
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	49
5	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	47

****

Peak Number 9 Pentane, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	29.29 ppbv	8198560	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	90

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	4.60 ppbv	1287320	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	74
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
3	4-Pentenal, 2-methyl-	98	C6H10O	005187-71-3	53
4	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37
5	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	35

****

Peak Number 11 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	53.99 ppbv	22315600	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
2	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	78
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72

****

Peak Number 12 Heptane, 3-methyl- $$ 3-Methyl Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	6.98 ppbv	2883120	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	47
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
3	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	43
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Cyclohexane, methyl- $$ Cycloh Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	32.05 ppbv	13246200	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	97
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

****

Peak Number 14 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	8.81 ppbv	3641640	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
5	1-Hexene, 4,5-dimethyl- $$ 4,5-Dime	112	C8H16	016106-59-5	64

****

Peak Number 15 Heptane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	5.78 ppbv	2386990	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	68
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
3	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	59
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	58
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Decane, 3,3,4-trimethyl- $$ 3, Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	5.80 ppbv	2397650	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl- $$ 3,3,4-T	184	C13H28	049622-18-6	45
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	42
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	42
4	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	40
5	Pentane, 3,3-dimethyl- $$ 3,3-Dimet	100	C7H16	000562-49-2	40

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.36 ppbv	1388610	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
4	Butane, 2,2,3-trimethyl- $$ Triptan	100	C7H16	000464-06-2	53
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	50

****

Peak Number 18 Hexane, 2,2,5-trimethyl- $$ 2, Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.76 ppbv	1140910	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,4-trimethyl- $$ 2,2,4-T	128	C9H20	016747-26-5	74
5	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	74

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081116.D Vial: 14
Acq On : 9 Apr 2011 2:40 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-028A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	4.61 ppbv	1906930	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
4	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	94
5	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94

****

Peak Number 20 Octane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.39 ppbv	1400900	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	83
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	72
5	Octane	114	C8H18	000111-65-9	64

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 9 Apr 2011 2:40 am
Data File: C:\HPCHEM\1\DATA\040811\04081116.D
Name: 1103609-028A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	5.8	ppbv	1630990	ISTD01	10.76	3498280	12.5
Butane, 2-methyl-	7.20	10.4	ppbv	2917730	ISTD01	10.76	3498280	12.5
Pentane $$ n-Pentane	7.58	17.4	ppbv	4870540	ISTD01	10.76	3498280	12.5
Pentane, 2-methyl-	8.78	37.1	ppbv	10383000	ISTD01	10.76	3498280	12.5
Cyclopentane	8.94	4.8	ppbv	1354160	ISTD01	10.76	3498280	12.5
Pentane, 3-methyl-	9.09	19.2	ppbv	5364930	ISTD01	10.76	3498280	12.5
Pentane, 2,4-dimethy	10.01	14.4	ppbv	4037240	ISTD01	10.76	3498280	12.5
Cyclopentane, methyl	10.22	32.5	ppbv	9083510	ISTD01	10.76	3498280	12.5
Pentane, 2,3-dimethy	10.95	29.3	ppbv	8198560	ISTD01	10.76	3498280	12.5
Cyclopentane, 1,1-di	11.21	4.6	ppbv	1287320	ISTD01	10.76	3498280	12.5
Butane, 2,2,3,3-tetr	11.36	54.0	ppbv	22315600	ISTD02	11.86	5166150	12.5
Heptane, 3-methyl- $	12.28	7.0	ppbv	2883120	ISTD02	11.86	5166150	12.5
Cyclohexane, methyl-	12.39	32.1	ppbv	13246200	ISTD02	11.86	5166150	12.5
Pentane, 2,3,4-trime	12.80	8.8	ppbv	3641640	ISTD02	11.86	5166150	12.5
Heptane, 2-methyl-	12.94	5.8	ppbv	2386990	ISTD02	11.86	5166150	12.5
Decane, 3,3,4-trimet	12.98	5.8	ppbv	2397650	ISTD02	11.86	5166150	12.5
Heptane, 3-methyl-	13.15	3.4	ppbv	1388610	ISTD02	11.86	5166150	12.5
Hexane, 2,2,5-trimet	13.34	2.8	ppbv	1140910	ISTD02	11.86	5166150	12.5
Cyclohexane, 1,3-dim	13.57	4.6	ppbv	1906930	ISTD02	11.86	5166150	12.5
Octane	13.67	3.4	ppbv	1400900	ISTD02	11.86	5166150	12.5

04081116.D 040711V1.M Thu Apr 14 16:52:03 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:18 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

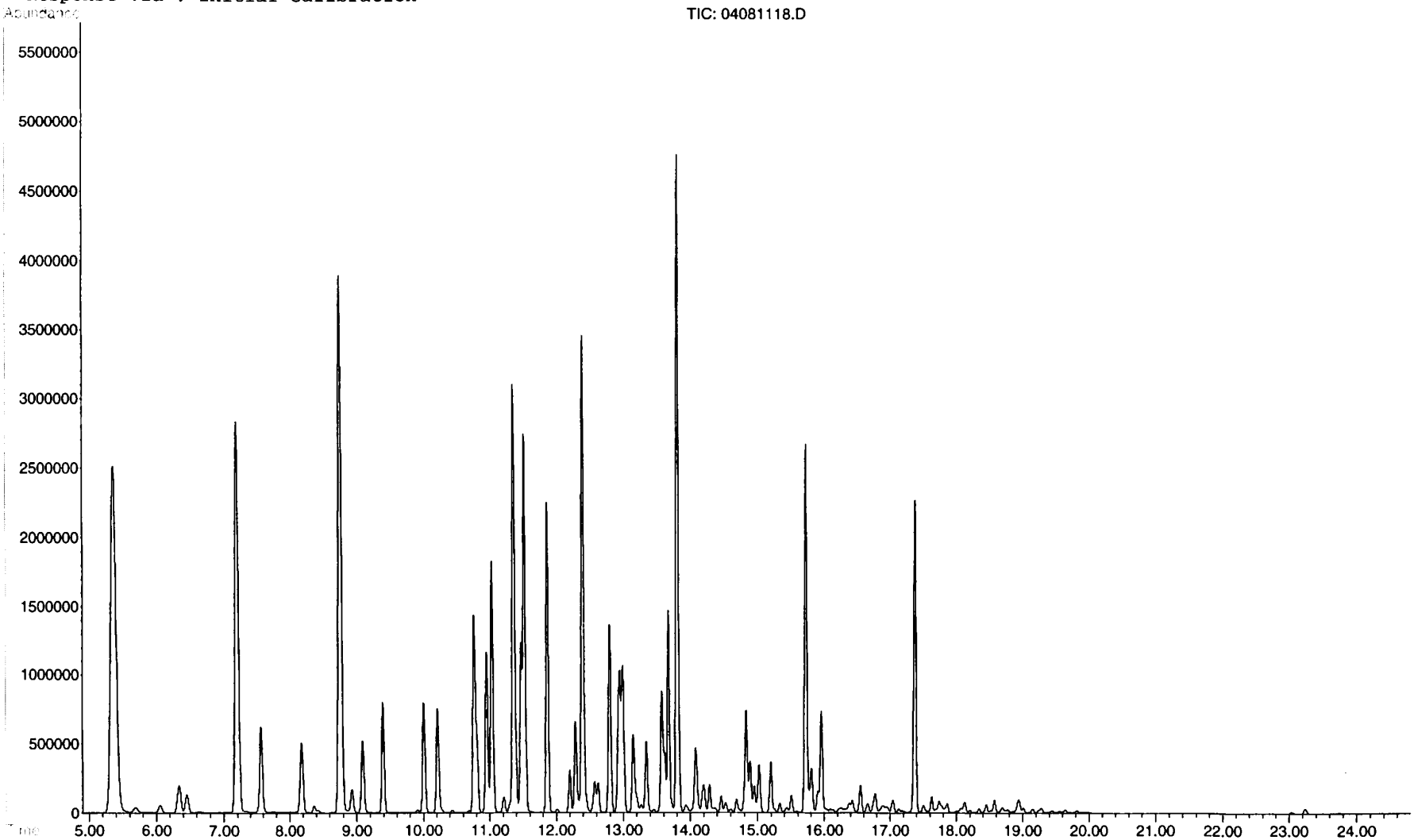
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	649453	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2320350	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1675356	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1039318	12.35	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.80%				
Target Compounds							Qvalue
14) Acetone	8.36	43	114151	1.54	ppbv	#	97
20) n-Hexane	9.39	57	507534	5.55	ppbv		95
29) Cyclohexane	11.03	56	838335	9.15	ppbv	#	77
31) Benzene	11.47	78	1101111	7.55	ppbv		96
34) Heptane	11.52	43	1257870	11.89	ppbv	#	94
41) Toluene	13.80	91	4248638	26.48	ppbv		99
50) Ethylbenzene	15.80	91	256626	1.47	ppbv		95
51) m,p-Xylene	15.95	91	538753	4.03	ppbv		93
52) o-Xylene	16.55	91	157229	1.17	ppbv	#	87

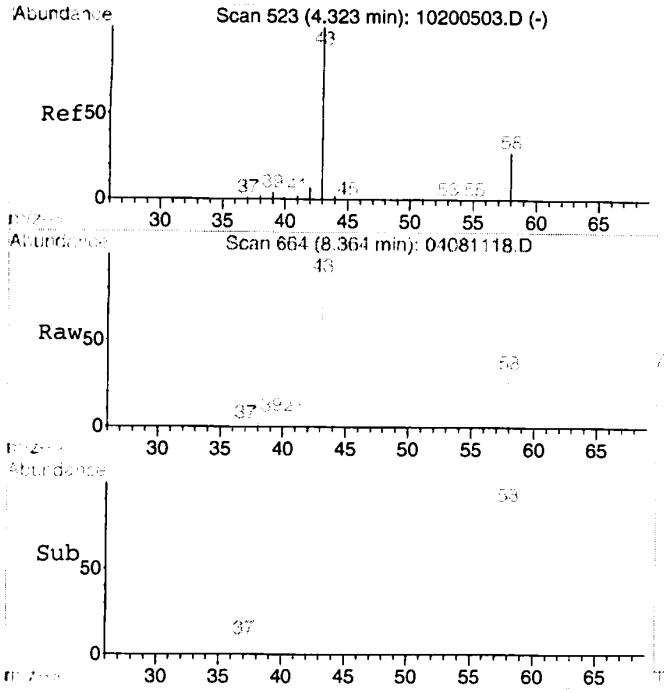
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 9 10:18 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

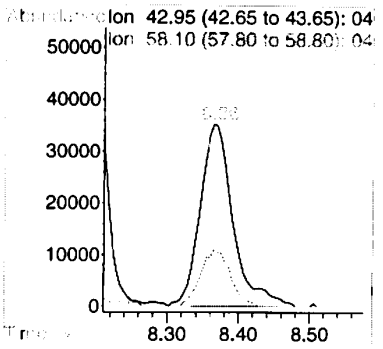


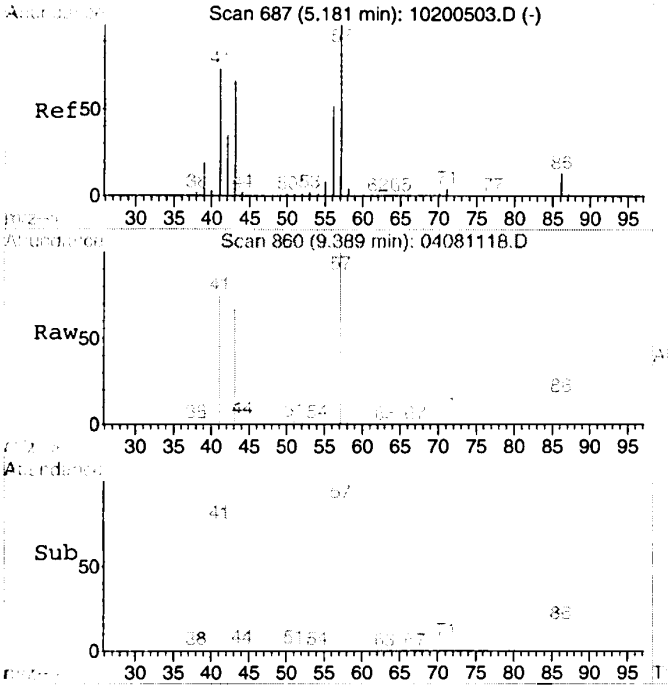


#14
Acetone
Concen: 1.54 ppbv
RT: 8.36 min Scan# 664
Delta R.T. 0.01 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 43 Resp: 114151

Ion	Ratio	Lower	Upper
43	100		
58	28.2	22.0	33.0
39	4.6	6.5	9.7#

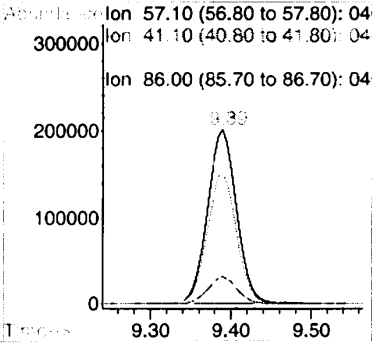


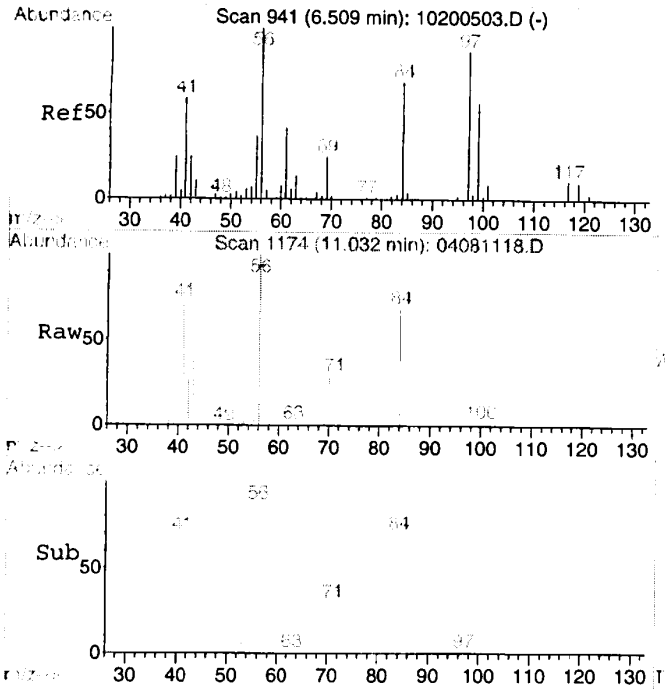


#20
n-Hexane
Concen: 5.55 ppbv
RT: 9.39 min Scan# 860
Delta R.T. -0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 57 Resp: 507534

Ion	Ratio	Lower	Upper
57	100		
41	76.4	57.2	85.8
53	2.4	1.8	2.8
86	15.3	13.4	20.0

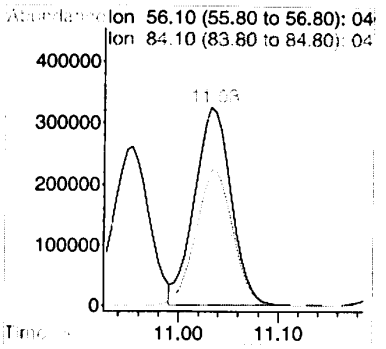


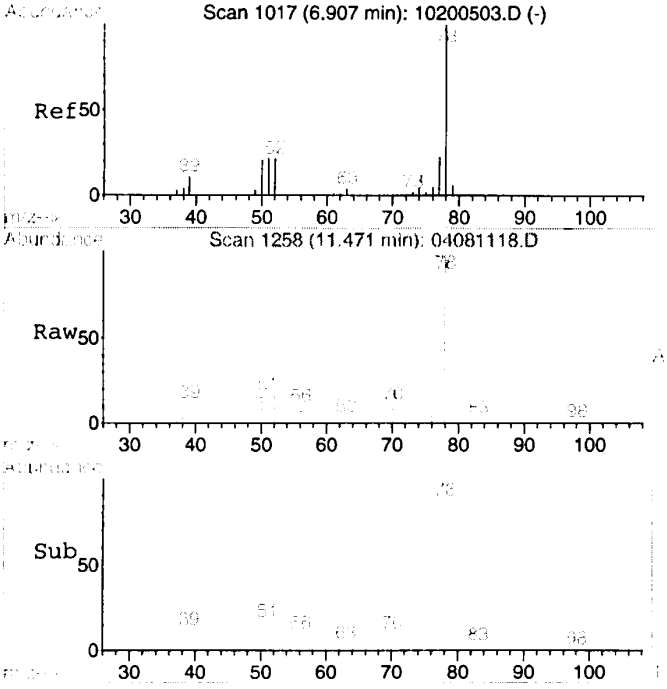


#29
Cyclohexane
Concen: 9.15 ppbv
RT: 11.03 min Scan# 1174
Delta R.T. -0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 56 Resp: 838335

Ion	Ratio	Lower	Upper
56	100		
84	69.8	72.4	108.6#
41	71.9	43.8	65.8#

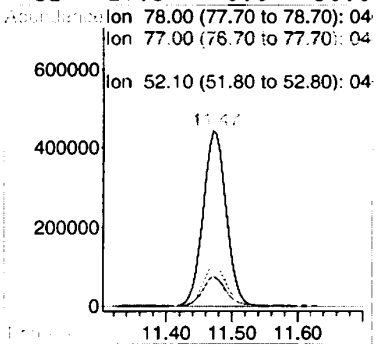


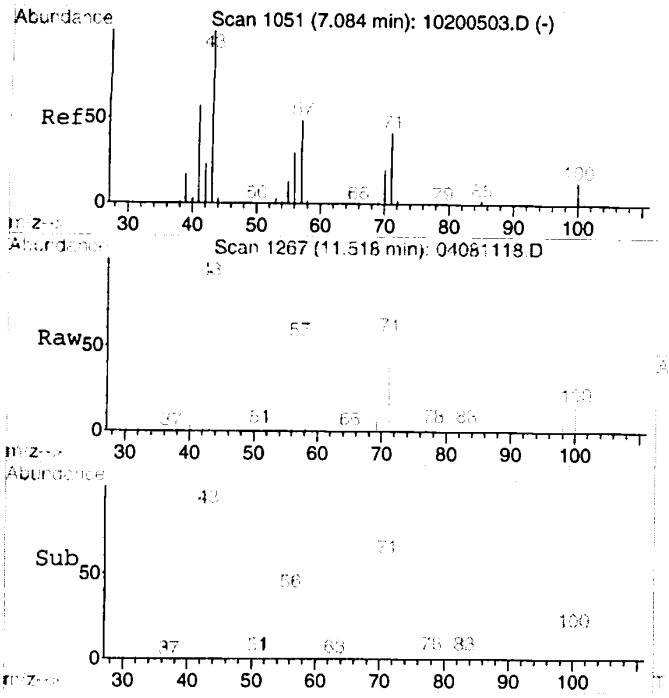


#31
Benzene
Concen: 7.55 ppbv
RT: 11.47 min Scan# 1258
Delta R.T. -0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 78 Resp: 1101111

Ion	Ratio	Lower	Upper
78	100		
77	24.3	3.7	43.7
51	19.6	0.0	36.1
52	17.5	0.0	36.0

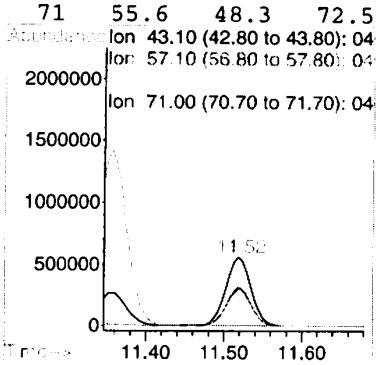


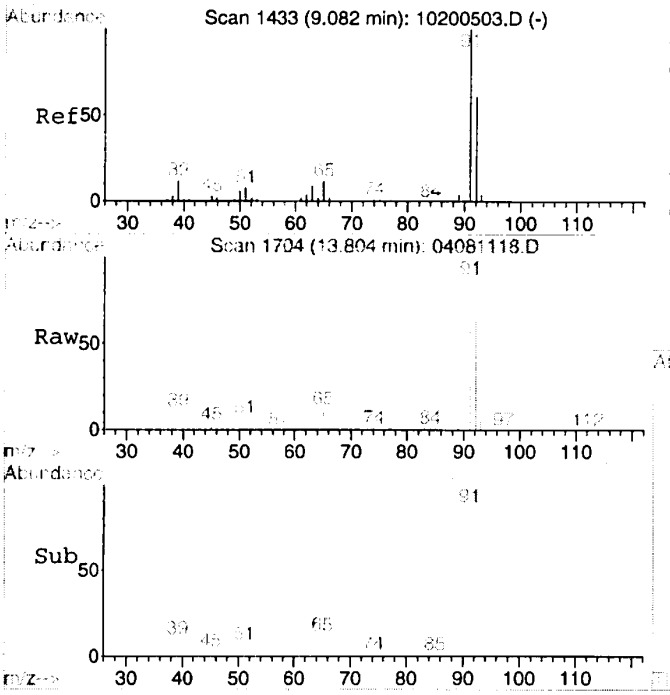


#34
Heptane
Concen: 11.89 ppbv
RT: 11.52 min Scan# 1267
Delta R.T. -0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 43 Resp: 1257870

Ion	Ratio	Lower	Upper
43	100		
57	55.2	42.2	63.4
100	15.6	17.3	25.9#
71	55.6	48.3	72.5

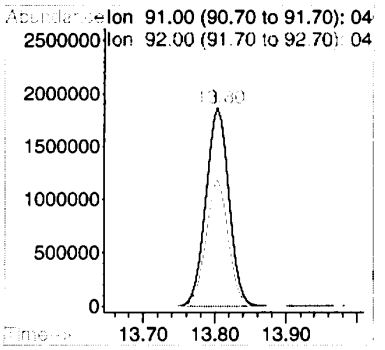


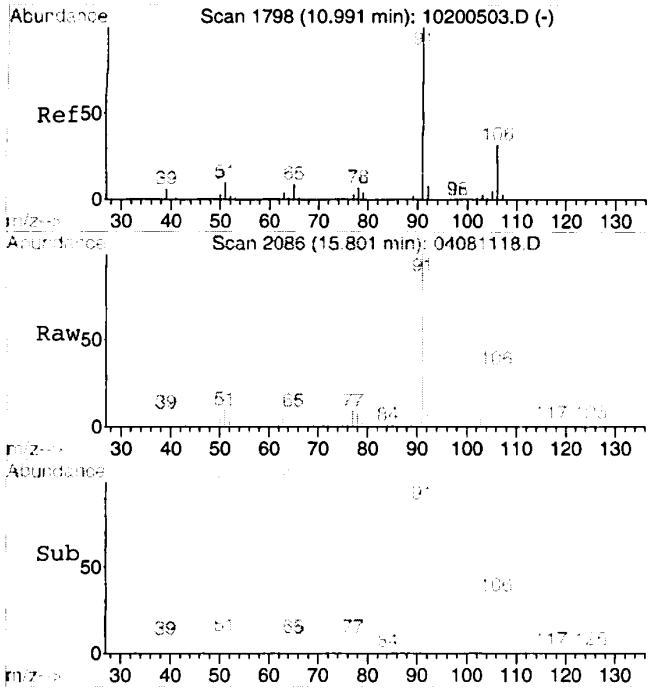


#41
Toluene
Concen: 26.48 ppbv
RT: 13.80 min Scan# 1704
Delta R.T. 0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 91 Resp: 4248638

Ion	Ratio	Lower	Upper
91	100		
92	61.5	40.5	80.5
65	11.9	0.0	31.2

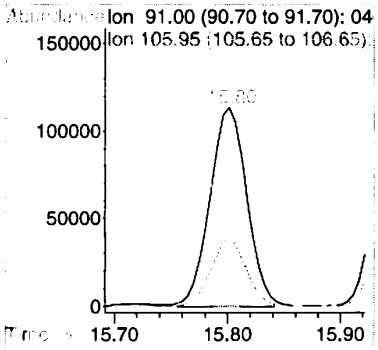


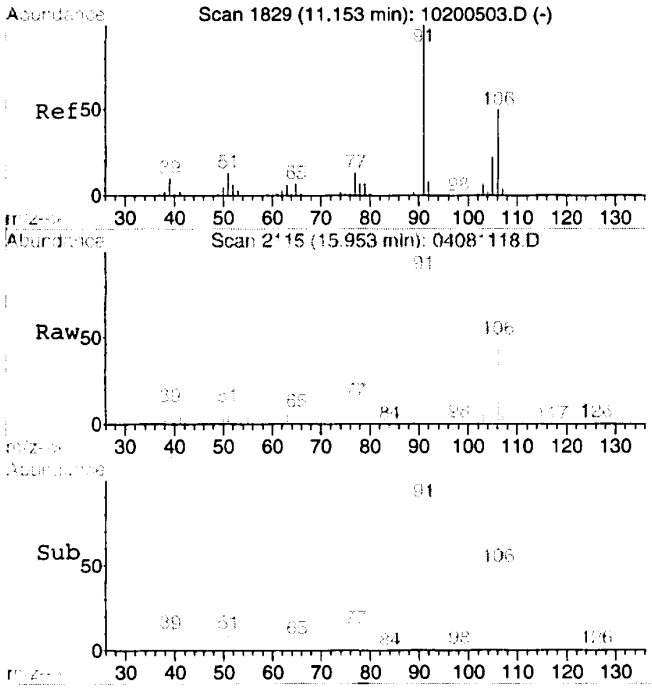


#50
Ethylbenzene
Concen: 1.47 ppbv
RT: 15.80 min Scan# 2086
Delta R.T. 0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 91 Resp: 256626

Ion	Ratio	Lower	Upper
91	100		
106	32.2	14.9	54.9
51	10.5	0.0	33.1

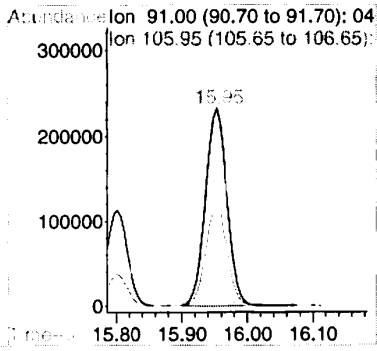


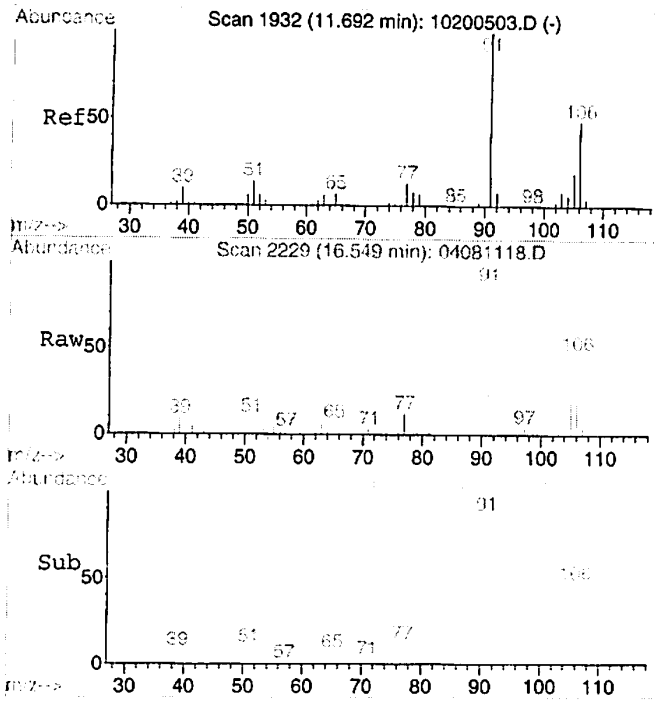


#51
m,p-Xylene
Concen: 4.03 ppbv
RT: 15.95 min Scan# 2115
Delta R.T. -0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 91 Resp: 538753

Ion	Ratio	Lower	Upper
91	100		
106	50.4	35.6	75.6
51	10.6	0.0	29.6

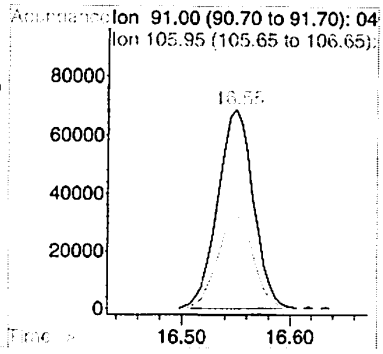




#52
o-Xylene
Concen: 1.17 ppbv
RT: 16.55 min Scan# 2229
Delta R.T. 0.00 min
Lab File: 04081118.D
Acq: 9 Apr 2011 4:03 am

Tgt Ion: 91 Resp: 157229

Ion	Ratio	Lower	Upper
91	100		
106	46.9	41.0	61.6
51	11.6	19.7	29.5#



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040811\04081118.D
Acq On : 9 Apr 2011 4:03 am
Sample : 1103609-024A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 40.00

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 1 % of largest Peak
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.362	63	90	135	rBV	2514109	14202109	100.00%	9.406%
2	5.681	138	151	172	rVB6	39002	186728	1.31%	0.124%
3	6.058	208	223	238	rVB3	58882	234616	1.65%	0.155%
4	6.335	257	276	288	rBV2	205400	772294	5.44%	0.511%
5	6.450	288	298	314	rVB2	134325	486607	3.43%	0.322%
6	7.193	422	440	463	rBV	2837994	9847969	69.34%	6.522%
7	7.564	497	511	527	rVB	622333	1913731	13.47%	1.267%
8	8.176	614	628	642	rBV	506351	1605562	11.31%	1.063%
9	8.364	652	664	673	rBV	55183	166770	1.17%	0.110%
10	8.757	723	739	761	rBV2	3892496	12558500	88.43%	8.317%
11	8.929	762	772	787	rVV	171722	509313	3.59%	0.337%
12	9.086	789	802	820	rVB	524185	1451380	10.22%	0.961%
13	9.389	848	860	878	rBV	802207	2029231	14.29%	1.344%
14	10.001	966	977	995	rVB	800528	2116846	14.91%	1.402%
15	10.210	1004	1017	1037	rBV	761056	2136383	15.04%	1.415%
16	10.765	1112	1123	1146	rVB2	1439746	4816376	33.91%	3.190%
17	10.953	1146	1159	1166	rVV	1170904	3025788	21.31%	2.004%
18	11.032	1166	1174	1191	rVB2	1831025	4675256	32.92%	3.096%
19	11.204	1197	1207	1217	rBV3	111835	300074	2.11%	0.199%
20	11.356	1217	1236	1249	rVV	3102873	8870251	62.46%	5.875%
21	11.471	1249	1258	1261	rVV	1244372	2824481	19.89%	1.871%
22	11.518	1262	1267	1286	rVB2	2744212	6414858	45.17%	4.249%
23	11.863	1321	1333	1352	rBV	2255764	5210194	36.69%	3.451%
24	12.198	1387	1397	1405	rBV	310738	738641	5.20%	0.489%
25	12.282	1405	1413	1423	rVV	665277	1756423	12.37%	1.163%
26	12.391	1423	1434	1456	rVV	3461819	8741373	61.55%	5.789%
27	12.569	1456	1468	1473	rVV3	227832	633838	4.46%	0.420%
28	12.622	1473	1478	1489	rVB2	216949	523906	3.69%	0.347%
29	12.794	1496	1511	1524	rBV2	1371588	3488293	24.56%	2.310%
30	12.946	1524	1540	1543	rBV3	1027324	2983292	21.01%	1.976%
31	13.145	1567	1578	1596	rBV2	564906	1761103	12.40%	1.166%
32	13.338	1606	1615	1631	rVB	508366	1289148	9.08%	0.854%
33	13.573	1643	1660	1666	rBV	879814	2431382	17.12%	1.610%
34	13.673	1672	1679	1693	rVB	1440878	3153629	22.21%	2.089%
35	13.804	1693	1704	1720	rVB	4758075	11128811	78.36%	7.371%
36	13.934	1720	1729	1740	rBV5	50065	147575	1.04%	0.098%
37	14.076	1740	1756	1768	rBV2	464659	1369550	9.64%	0.907%
38	14.196	1769	1779	1788	rVB4	181397	536152	3.78%	0.355%
39	14.285	1788	1796	1804	rBV2	183257	388262	2.73%	0.257%
40	14.457	1820	1829	1835	rBV2	119530	267489	1.88%	0.177%
41	14.525	1835	1842	1850	rVV5	73530	193658	1.36%	0.128%
42	14.682	1864	1872	1886	rVV3	98110	272885	1.92%	0.181%
43	14.829	1886	1900	1906	rVV	742726	2021599	14.23%	1.339%

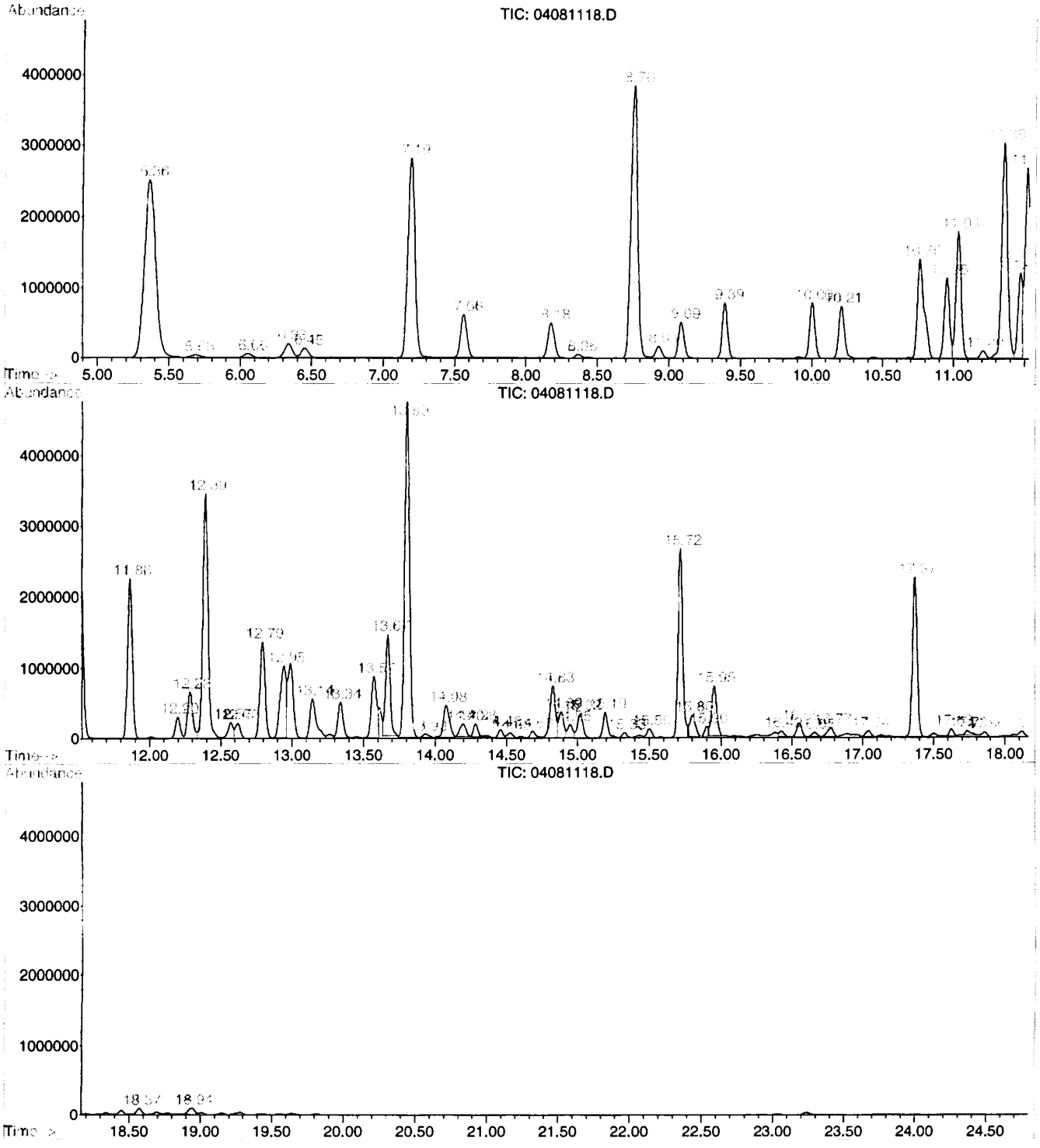
44	14.886	1906	1911	1917	rVV	376258	898594	6.33%	0.595%
45	14.949	1917	1923	1928	rVV2	194676	482329	3.40%	0.319%
46	15.017	1928	1936	1952	rVB3	347962	946251	6.66%	0.627%
47	15.195	1957	1970	1980	rBV2	371378	910471	6.41%	0.603%
48	15.331	1987	1996	2004	rBV	70459	159334	1.12%	0.106%
49	15.503	2021	2029	2038	rVB	123566	291785	2.05%	0.193%
50	15.718	2054	2070	2080	rBV	2672362	6287160	44.27%	4.164%
51	15.801	2081	2086	2097	rVV2	311630	813715	5.73%	0.539%
52	15.901	2097	2105	2107	rVV	144434	257187	1.81%	0.170%
53	15.953	2108	2115	2126	rVB	716649	1763043	12.41%	1.168%
54	16.424	2201	2205	2216	rVB2	87032	194650	1.37%	0.129%
55	16.549	2219	2229	2240	rVB	199061	507266	3.57%	0.336%
56	16.654	2240	2249	2259	rBV4	65558	182170	1.28%	0.121%
57	16.774	2259	2272	2281	rBV4	133398	395021	2.78%	0.262%
58	17.041	2314	2323	2333	rVB3	87004	221335	1.56%	0.147%
59	17.371	2370	2386	2401	rVB	2264007	5228770	36.82%	3.463%
60	17.627	2427	2435	2442	rBV3	109801	232986	1.64%	0.154%
61	17.731	2448	2455	2469	rBV3	66613	198808	1.40%	0.132%
62	17.857	2474	2479	2489	rVB2	67274	148002	1.04%	0.098%
63	18.118	2523	2529	2539	rVB3	72595	180739	1.27%	0.120%
64	18.573	2608	2616	2625	rVB3	91827	219425	1.55%	0.145%
65	18.940	2673	2686	2695	rBV2	92321	289747	2.04%	0.192%

Sum of corrected areas: 150991114

04081118.D 040711V1.M Thu Apr 14 16:52:14 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040811\04081118.D
Operator : Michael Truchan/Rachel Hill
Acquired : 9 Apr 2011 4:03 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-024A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 15
Quant File :040711V1.RES (RTE Integrator)



04081118.D 040711V1.M Thu Apr 14 16:52:15 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081118.D
Acq On : 9 Apr 2011 4:03 am
Sample : 1103609-024A
Misc : SAMP EPA_TO15-ug/m3
MS Integration Params: LSCINT.P

Vial: 15
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 40.00

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	36.86 ppbv	14202100	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Octodrine $$ 2-Heptanamine, 6-methy	129	C8H19N	000543-82-8	3
5	Ethylene oxide	44	C2H4O	000075-21-8	3

****

Peak Number 2 Butane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	25.56 ppbv	9847970	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	90
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Methane, isocyanato- $$ Isocyanic a	57	C2H3NO	000624-83-9	9
5	1-Butene	56	C4H8	000106-98-9	9

****

Peak Number 3 Pentane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	4.97 ppbv	1913730	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	64
4	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	42

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 4 Butane, 2,2-dimethyl- $$ Neohe Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	4.17 ppbv	1605560	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl- $$ Neohexane	86	C6H14	000075-83-2	83
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
4	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

****

Peak Number 5 Butane, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	32.59 ppbv	12558500	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	86
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
3	Butane, 2,3-dimethyl- $$ Biisopropy	86	C6H14	000079-29-8	56
4	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	52
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50

****

Peak Number 6 Pentane, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	3.77 ppbv	1451380	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Hexane, 2,2,3-trimethyl- $$ 2,2,3-T	128	C9H20	016747-25-4	56
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	40

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 7 Pentane, 2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	5.49 ppbv	2116850	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64

****

Peak Number 8 Cyclopentane, methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.21	5.54 ppbv	2136380	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
3	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
4	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	86

****

Peak Number 9 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	7.85 ppbv	3025790	Bromochloromethane	10.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 10 Pentane, 2,2,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	21.28 ppbv	8870250	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	83
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	83
3	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	83
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	78
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	72

****

Peak Number 11 Hexane, 2,4-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	4.21 ppbv	1756420	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	64
2	Hexane, 1-(hexyloxy)-5-methyl-	200	C13H28O	074421-19-5	64
3	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	59
4	Ether, heptyl hexyl	200	C13H28O	007289-40-9	59
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58

****

Peak Number 12 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	20.97 ppbv	8741370	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl- $$ Cyclohexylm	98	C7H14	000108-87-2	93
5	Cyclohexane, methyl-	98	C7H14	000108-87-2	78

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 13 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	8.37 ppbv	3488290	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	87
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4	Propanoic acid, 2-methyl-, pentyl e	158	C9H18O2	002445-72-9	72
5	1-Hexene, 4,5-dimethyl-	112	C8H16	016106-59-5	64

****

Peak Number 14 Heptane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	7.16 ppbv	2983290	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	62
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
4	Heptane, 2-methyl-	114	C8H18	000592-27-8	52
5	Octane, 2,5-dimethyl- $$ 2,5-Dimeth	142	C10H22	015869-89-3	50

****

Peak Number 15 Heptane, 3-methyl- $$ 3-Methyl Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	4.23 ppbv	1761100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl- $$ 3-Methylhepta	114	C8H18	000589-81-1	90
2	Heptane, 3-methyl-	114	C8H18	000589-81-1	64
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50
4	Pentane, 2,3,3,4-tetramethyl-	128	C9H20	016747-38-9	47
5	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	47

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 16 Hexane, 2,2,5-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	3.09 ppbv	1289150	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
2	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl- $$ 2,2,5-T	128	C9H20	003522-94-9	83
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83

****

Peak Number 17 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	5.83 ppbv	2431380	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
3	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

****

Peak Number 18 Octane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	7.57 ppbv	3153630	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	83
3	Octane	114	C8H18	000111-65-9	83
4	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	81
5	Octane	114	C8H18	000111-65-9	68

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081118.D Vial: 15
Acq On : 9 Apr 2011 4:03 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 40.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 19 Cyclohexane, 1,2-dimethyl- (ci Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.08	2.72 ppbv	1369550	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/tra	112	C8H16	000583-57-3	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90

****

Peak Number 20 Cyclohexane, ethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	4.02 ppbv	2021600	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
4	Cyclohexane, ethyl- $$ Ethylcyclohe	112	C8H16	001678-91-7	93
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	90

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 9 Apr 2011 4:03 am
Data File: C:\HPCHEM\1\DATA\040811\04081118.D
Name: 1103609-024A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	36.9	ppbv	14202100	ISTD01	10.76	4816380	12.5
Butane, 2-methyl-	7.19	25.6	ppbv	9847970	ISTD01	10.76	4816380	12.5
Pentane	7.56	5.0	ppbv	1913730	ISTD01	10.76	4816380	12.5
Butane, 2,2-dimethyl	8.18	4.2	ppbv	1605560	ISTD01	10.76	4816380	12.5
Butane, 2,3-dimethyl	8.76	32.6	ppbv	12558500	ISTD01	10.76	4816380	12.5
Pentane, 3-methyl-	9.09	3.8	ppbv	1451380	ISTD01	10.76	4816380	12.5
Pentane, 2,4-dimethy	10.00	5.5	ppbv	2116850	ISTD01	10.76	4816380	12.5
Cyclopentane, methyl	10.21	5.5	ppbv	2136380	ISTD01	10.76	4816380	12.5
Pentane, 2,3-dimethy	10.95	7.9	ppbv	3025790	ISTD01	10.76	4816380	12.5
Pentane, 2,2,4-trime	11.36	21.3	ppbv	8870250	ISTD02	11.86	5210190	12.5
Hexane, 2,4-dimethyl	12.28	4.2	ppbv	1756420	ISTD02	11.86	5210190	12.5
Cyclohexane, methyl-	12.39	21.0	ppbv	8741370	ISTD02	11.86	5210190	12.5
Pentane, 2,3,4-trime	12.79	8.4	ppbv	3488290	ISTD02	11.86	5210190	12.5
Heptane, 2-methyl-	12.95	7.2	ppbv	2983290	ISTD02	11.86	5210190	12.5
Heptane, 3-methyl- $	13.14	4.2	ppbv	1761100	ISTD02	11.86	5210190	12.5
Hexane, 2,2,5-trimet	13.34	3.1	ppbv	1289150	ISTD02	11.86	5210190	12.5
Cyclohexane, 1,3-dim	13.57	5.8	ppbv	2431380	ISTD02	11.86	5210190	12.5
Octane	13.67	7.6	ppbv	3153630	ISTD02	11.86	5210190	12.5
Cyclohexane, 1,2-dim	14.08	2.7	ppbv	1369550	ISTD03	15.72	6287160	12.5
Cyclohexane, ethyl-	14.83	4.0	ppbv	2021600	ISTD03	15.72	6287160	12.5

04081118.D 040711V1.M Thu Apr 14 16:52:16 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 14 11:35 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.77	130	639450	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2324253	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1695765	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1037936	12.19	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 97.52%				
Target Compounds							Qvalue
14) Acetone	8.37	43	82489	1.13	ppbv	#	94
17) Methylene chloride	8.93	49	223518	3.45	ppbv		92
20) n-Hexane*	9.39	57	1569384	17.43	ppbv		98
29) Cyclohexane*	11.03	56	1494770	16.57	ppbv	#	81
31) Benzene	11.47	78	636472	4.44	ppbv		94
34) Heptane*	11.52	43	843450	7.96	ppbv	#	92
41) Toluene	13.80	91	955400	5.95	ppbv		98

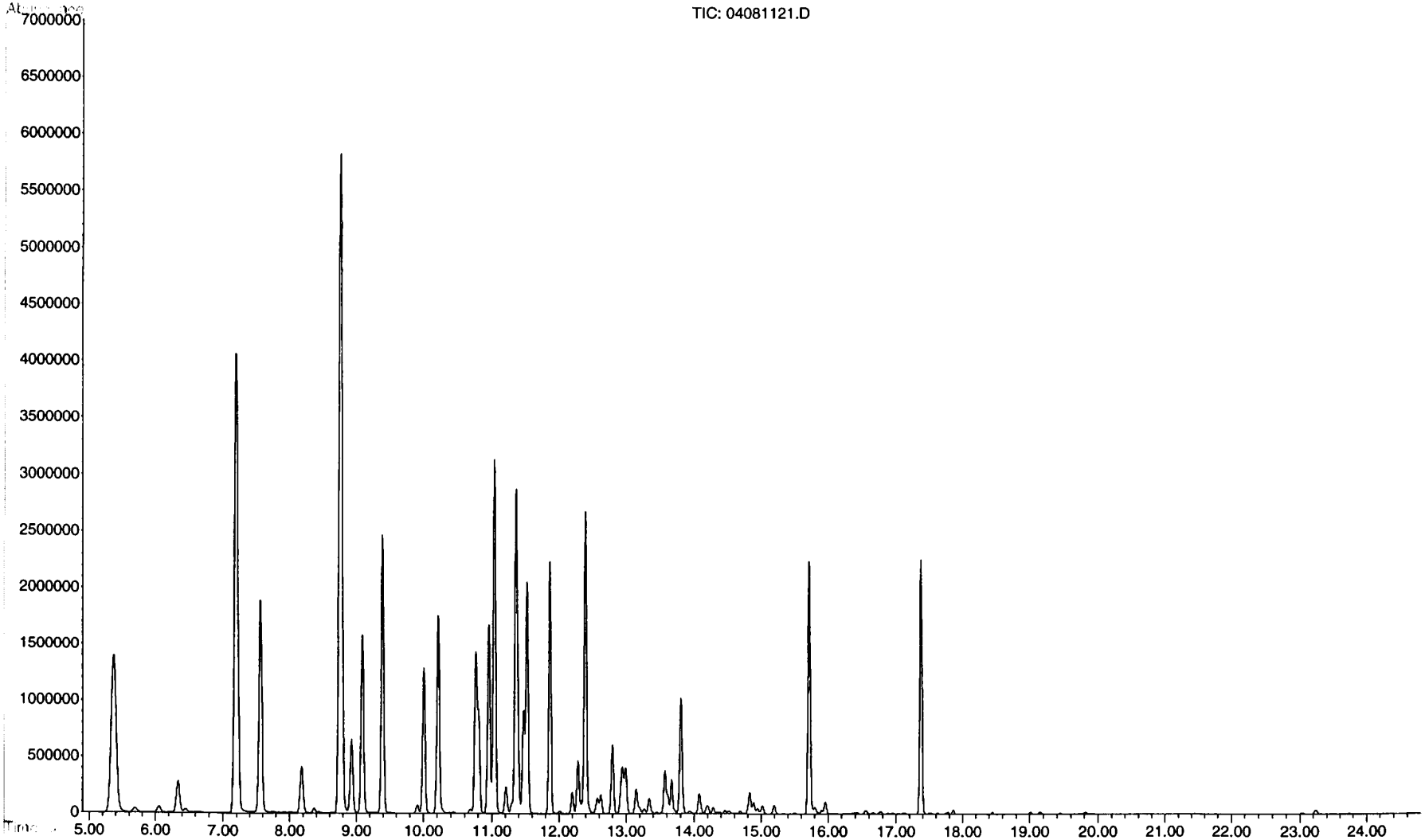
* = reported only 4/15/11 AP

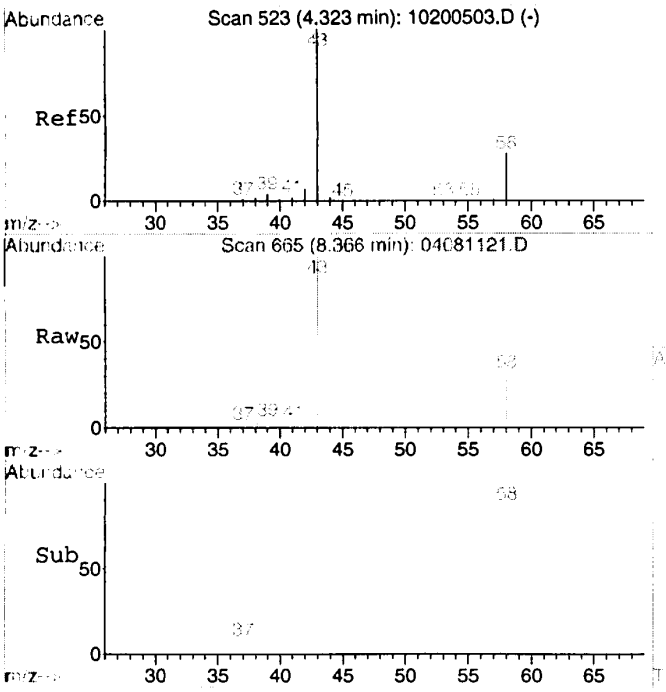
(#) = qualifier out of range (m) = manual integration
04081121.D 040711V1.M Thu Apr 14 16:52:21 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 14 11:35 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

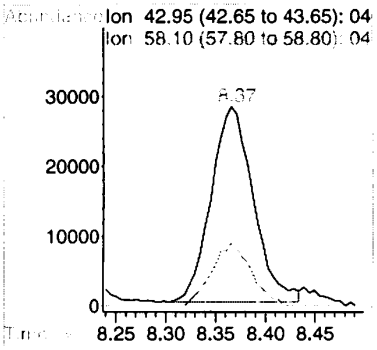


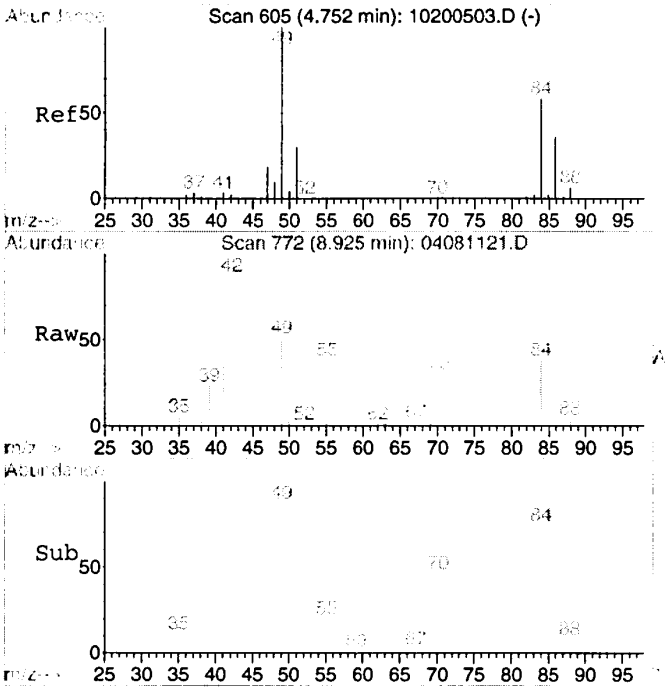


#14
Acetone
Concen: 1.13 ppbv
RT: 8.37 min Scan# 665
Delta R.T. 0.01 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 43 Resp: 82489

Ion	Ratio	Lower	Upper
43	100		
58	29.9	22.0	33.0
39	4.3	6.5	9.7#

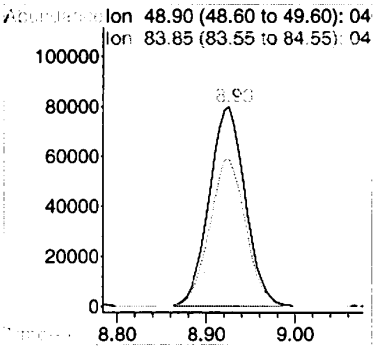


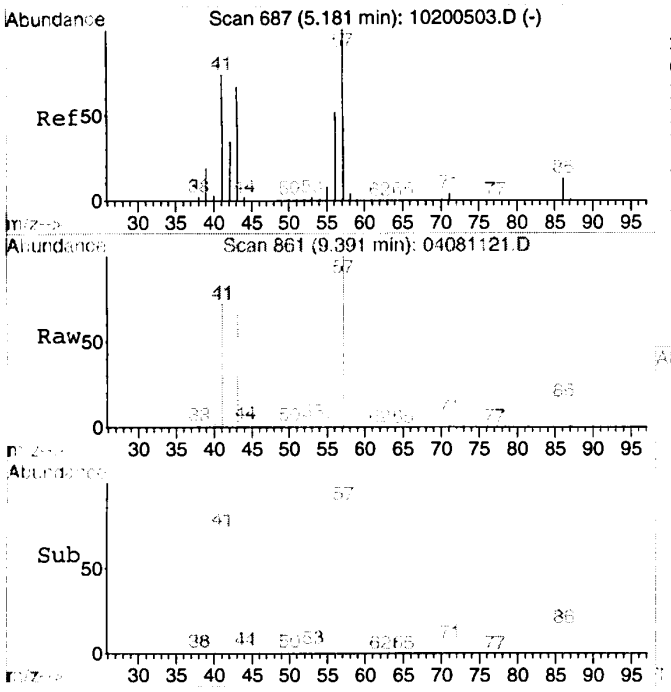


#17
Methylene chloride
Concen: 3.45 ppbv
RT: 8.93 min Scan# 772
Delta R.T. -0.00 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 49 Resp: 223518

Ion	Ratio	Lower	Upper
49	100		
84	73.5	65.4	98.2
86	47.7	42.3	63.5

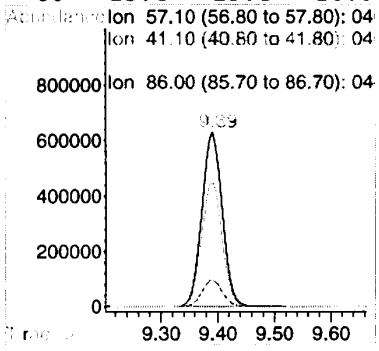


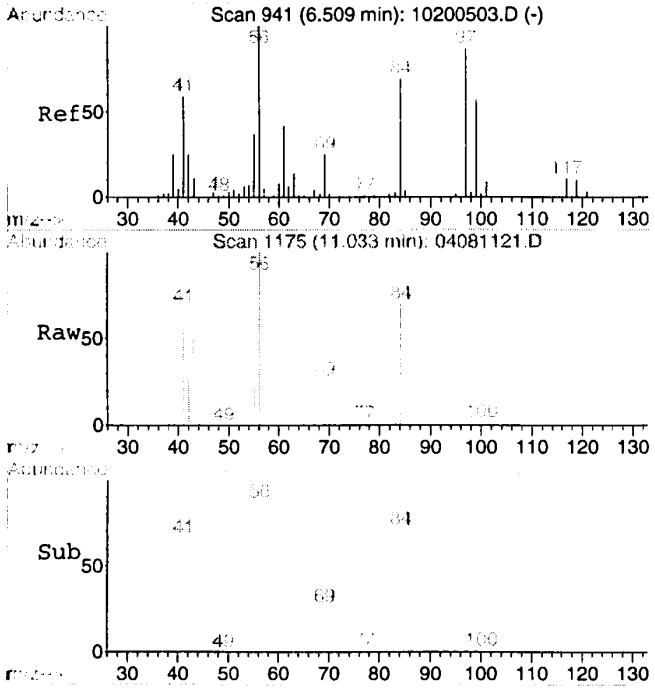


#20
n-Hexane
Concen: 17.43 ppbv
RT: 9.39 min Scan# 861
Delta R.T. -0.00 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 57 Resp: 1569384

Ion	Ratio	Lower	Upper
57	100		
41	72.9	57.2	85.8
53	2.4	1.8	2.8
86	15.4	13.4	20.0

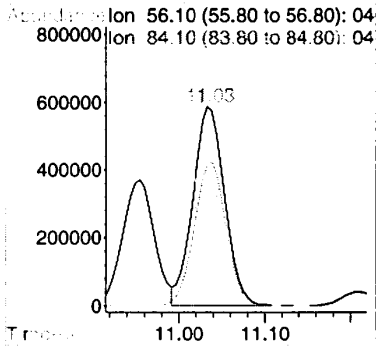


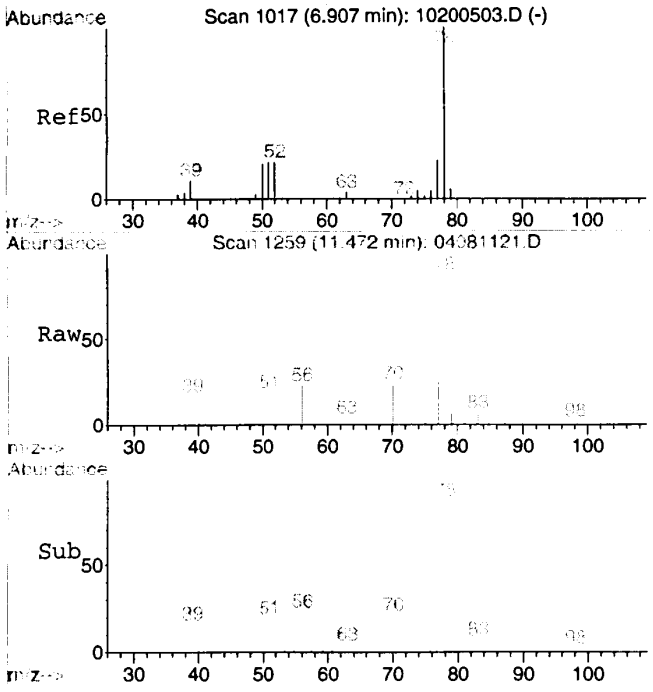


#29
Cyclohexane
Concen: 16.57 ppbv
RT: 11.03 min Scan# 1175
Delta R.T. -0.00 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 56 Resp: 1494770

Ion	Ratio	Lower	Upper
56	100		
84	72.1	72.4	108.6#
41	68.3	43.8	65.8#

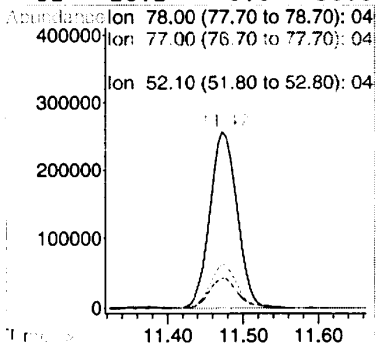


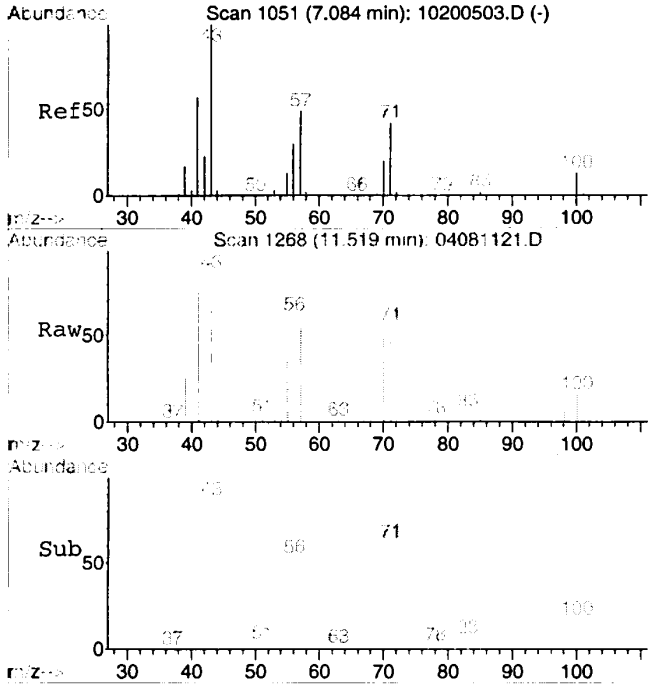


#31
Benzene
Concen: 4.44 ppbv
RT: 11.47 min Scan# 1259
Delta R.T. -0.00 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 78 Resp: 636472

Ion	Ratio	Lower	Upper
78	100		
77	25.1	3.7	43.7
51	21.5	0.0	36.1
52	18.2	0.0	36.0

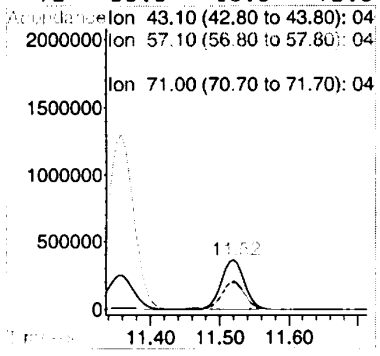


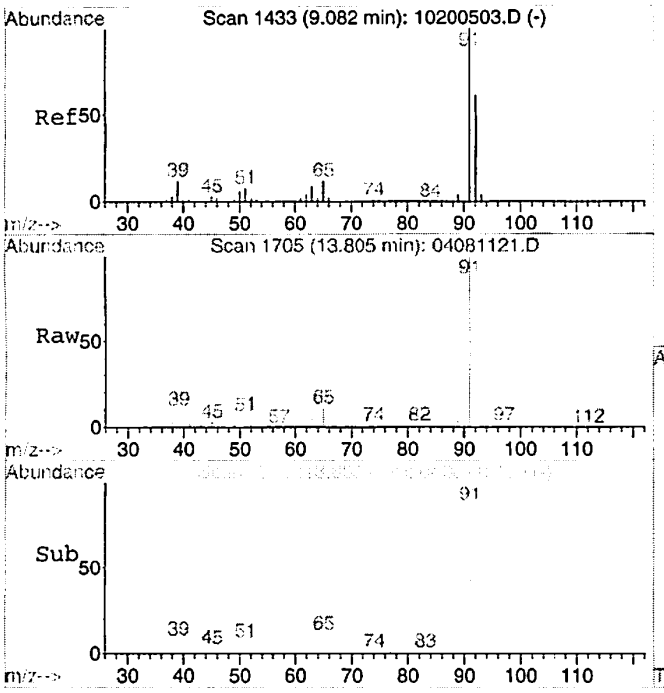


#34
Heptane
Concen: 7.96 ppbv
RT: 11.52 min Scan# 1268
Delta R.T. -0.00 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 43 Resp: 843450

Ion	Ratio	Lower	Upper
43	100		
57	57.4	42.2	63.4
100	15.1	17.3	25.9#
71	55.3	48.3	72.5

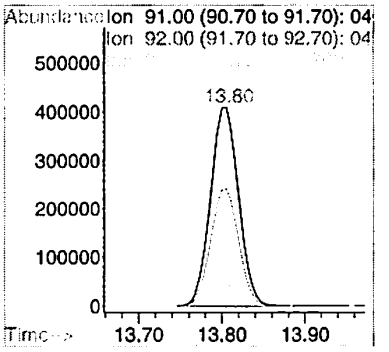




#41
Toluene
Concen: 5.95 ppbv
RT: 13.80 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 04081121.D
Acq: 9 Apr 2011 11:34 am

Tgt Ion: 91 Resp: 955400

Ion	Ratio	Lower	Upper
91	100		
92	58.6	40.5	80.5
65	11.2	0.0	31.2



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

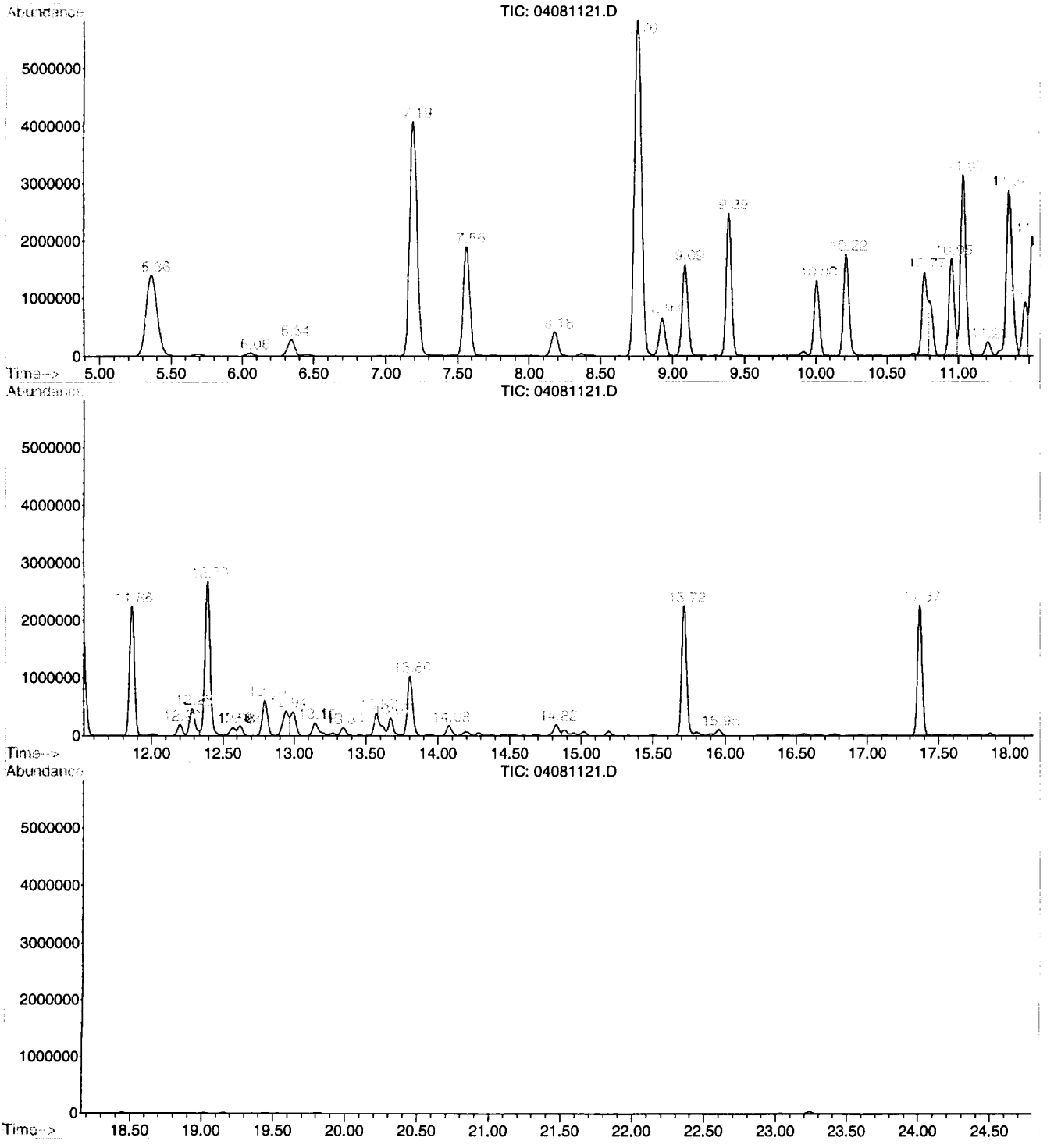
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.363	61	91	135	rBV	1398637	7715796	38.88%	5.551%
2	6.059	208	224	240	rVB2	55809	216749	1.09%	0.156%
3	6.341	259	278	292	rBV	284346	1007134	5.07%	0.725%
4	7.189	423	440	473	rBV	4064992	14727634	74.21%	10.595%
5	7.560	497	511	535	rVB	1885488	5962628	30.05%	4.290%
6	8.177	615	629	651	rVB3	415905	1358062	6.84%	0.977%
7	8.763	723	741	760	rBV3	5842559	19845447	100.00%	14.277%
8	8.925	761	772	788	rVV2	651868	1873414	9.44%	1.348%
9	9.087	790	803	820	rVV	1584967	4340678	21.87%	3.123%
10	9.391	847	861	886	rBV	2473845	6199616	31.24%	4.460%
11	10.003	967	978	998	rVB	1292359	3397009	17.12%	2.444%
12	10.217	1005	1019	1043	rBV	1758656	4702045	23.69%	3.383%
13	10.766	1113	1124	1129	rBV	1417612	3810877	19.20%	2.742%
14	10.954	1147	1160	1167	rBV	1677626	4329698	21.82%	3.115%
15	11.033	1167	1175	1194	rVV2	3140467	7981731	40.22%	5.742%
16	11.206	1196	1208	1218	rVV2	238894	640295	3.23%	0.461%
17	11.357	1218	1237	1250	rVV	2877626	8608890	43.38%	6.193%
18	11.472	1250	1259	1262	rVV3	915105	2188840	11.03%	1.575%
19	11.519	1262	1268	1291	rVB3	2059669	5279853	26.60%	3.798%
20	11.859	1321	1333	1352	rBV	2243822	5235638	26.38%	3.767%
21	12.199	1387	1398	1405	rBV	194214	457717	2.31%	0.329%
22	12.283	1405	1414	1424	rVV2	472205	1288098	6.49%	0.927%
23	12.393	1424	1435	1455	rVV	2683341	6814866	34.34%	4.903%
24	12.576	1457	1470	1474	rVV4	138846	406732	2.05%	0.293%
25	12.623	1474	1479	1490	rVB	169609	395962	2.00%	0.285%
26	12.795	1498	1512	1526	rBV2	614665	1572031	7.92%	1.131%
27	12.942	1526	1540	1545	rBV3	416815	1302662	6.56%	0.937%
28	13.146	1568	1579	1596	rBV	222279	695914	3.51%	0.501%
29	13.339	1608	1616	1630	rVB	136360	365269	1.84%	0.263%
30	13.570	1644	1660	1673	rBV	382324	1290160	6.50%	0.928%
31	13.669	1673	1679	1693	rVV	304934	715515	3.61%	0.515%
32	13.805	1693	1705	1721	rVB	1030972	2615144	13.18%	1.881%
33	14.077	1742	1757	1768	rBV3	174486	492839	2.48%	0.355%
34	14.825	1886	1900	1907	rBV	192809	526585	2.65%	0.379%
35	15.719	2059	2071	2083	rBV	2251675	5312758	26.77%	3.822%
36	15.954	2109	2116	2128	rVB2	104780	255508	1.29%	0.184%
37	17.367	2375	2386	2402	rBV	2267200	5074271	25.57%	3.650%

Sum of corrected areas: 139004065

04081121.D 040711V1.M Thu Apr 14 16:52:26 2011

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040811\04081121.D
Operator : Michael Truchan/Rachel Hill
Acquired : 9 Apr 2011 11:34 am using AcqMethod 040711V1
Instrument : GC/MS Ins
Sample Name: 1103609-025A
Misc Info : SAMP EPA_TO15-ug/m3
Vial Number: 18
Quant File :040711V1.RES (RTE Integrator)



04081121.D 040711V1.M Thu Apr 14 16:52:27 2011

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.36	25.31 ppbv	7715800	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide $$ Carbon oxide (CO2	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Nitrous Oxide	44	N2O	010024-97-2	3
5	Nitrous Oxide $$ Nitrogen oxide (N2	44	N2O	010024-97-2	3

****

Peak Number 2 Butane $$ n-Butane $$ Diethyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.34	3.30 ppbv	1007130	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane $$ n-Butane $$ Diethyl $$ Fr	58	C4H10	000106-97-8	80
2	Butane	58	C4H10	000106-97-8	72
3	Isobutane	58	C4H10	000075-28-5	9
4	Diazene, dimethyl-	58	C2H6N2	000503-28-6	5
5	Acetic acid, 2-propenyl ester	100	C5H8O2	000591-87-7	4

****

Peak Number 3 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.19	48.31 ppbv	14727600	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	86
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	Oxirane, trimethyl- $$ Butane, 2,3-	86	C5H10O	005076-19-7	36
5	1-Butene	56	C4H8	000106-98-9	9

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 4 Pentane $$ n-Pentane $$ Skelly Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	19.56 ppbv	5962630	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane $$ n-Pentane $$ Skellysolve	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	90
3	Pentane	72	C5H12	000109-66-0	72
4	Butane, 2-methyl-	72	C5H12	000078-78-4	45
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	36

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Peak Number 5 Butane, 2,2-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.18	4.45 ppbv	1358060	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
2	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	83
3	Heptane, 3,3-dimethyl-	128	C9H20	004032-86-4	64
4	Heptane, 3,3-dimethyl- $$ 3,3-Dimet	128	C9H20	004032-86-4	64
5	Hexane, 2,4,4-trimethyl- $$ 2,4,4-T	128	C9H20	016747-30-1	64

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Peak Number 6 Pentane, 2-methyl- $$ Isohexan Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	65.09 ppbv	19845400	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl- $$ Isohexane $$	86	C6H14	000107-83-5	80
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	80
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	72
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	72

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 7 Pentane, 3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.09	14.24 ppbv	4340680	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl- $$ 3-Methylpenta	86	C6H14	000096-14-0	90
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	56
5	Oxirane, (1-methylethyl)- $$ Butane	86	C5H10O	001438-14-8	50

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Peak Number 8 Pentane, 2,4-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.00	11.14 ppbv	3397010	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl- $$ 2,4-Dimet	100	C7H16	000108-08-7	91
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	52

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Peak Number 9 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	15.42 ppbv	4702050	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl- $$ Methylcycl	84	C6H12	000096-37-7	91
3	1H-Tetrazole, 5-methyl- $$ 5-Methyl	84	C2H4N4	004076-36-2	80
4	Cyclobutane, ethyl- $$ Ethylcyclobu	84	C6H12	004806-61-5	64
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	53

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 10 Pentane, 2,3-dimethyl- $$ 2,3- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	14.20 ppbv	4329700	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl- $$ 2,3-Dimet	100	C7H16	000565-59-3	95
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	94
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91

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Peak Number 11 Cyclopentane, 1,1-dimethyl- $$ Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.21	2.10 ppbv	640295	Bromochloromethane	10.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl- $$ Gem-	98	C7H14	001638-26-2	68
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	64
3	Cyclopentane, 1,1,2-trimethyl- $$ C	112	C8H16	004259-00-1	40
4	1-Hexyn-3-ol	98	C6H10O	000105-31-7	38
5	Cyclopentane, 1-ethyl-2-methyl-, ci	112	C8H16	000930-89-2	37

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Peak Number 12 Pentane, 2,2,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	20.55 ppbv	8608890	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
2	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	72
3	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72
4	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	64

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 13 2-Undecene, 6-methyl-, (Z)- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	3.08 ppbv	1288100	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Undecene, 6-methyl-, (Z)-	168	C12H24	074630-43-6	50
2	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	47
3	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	46
4	Hexane, 1-(hexyloxy)-3-methyl-	200	C13H28O	074421-18-4	45
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	43

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Peak Number 14 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	16.27 ppbv	6814870	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	96
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	78
5	Furan, 2,5-dihydro-2,5-dimethyl-	98	C6H10O	059242-27-2	64

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Peak Number 15 Pentane, 2,3,4-trimethyl- $$ 2 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	3.75 ppbv	1572030	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl- $$ 2,3,4-	114	C8H18	000565-75-3	74
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	64
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	58

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 16 Heptane, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.94	3.11 ppbv	1302660	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	81
2	Hexane, 2,5-dimethyl- $$ Biisobutyl	114	C8H18	000592-13-2	68
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
4	Heptane, 2-methyl- $$ 2-Methylhepta	114	C8H18	000592-27-8	64
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	58

****

Peak Number 17 Heptane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	1.66 ppbv	695914	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	91
2	Hexane, 2,4-dimethyl- $$ 2,4-Dimeth	114	C8H18	000589-43-5	58
3	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	50
4	Pentanoic acid, butyl ester	158	C9H18O2	000591-68-4	50
5	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	43

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Peak Number 18 Cyclohexane, 1,3-dimethyl-, ci Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	3.08 ppbv	1290160	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, cis- $$	112	C8H16	000638-04-0	97
2	Cyclohexane, 1,3-dimethyl- $$ 1,3-D	112	C8H16	000591-21-9	95
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	95
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91

Data File : C:\HPCHEM\1\DATA\040811\04081121.D Vial: 18
Acq On : 9 Apr 2011 11:34 am Operator: Michael Truchan/Rachel Hill
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP EPA_TO15-ug/m3 Multiplr: 80000.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Library : C:\DATABASE\NIST129K.L

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Peak Number 19 Octane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	1.71 ppbv	715515	1,4-Difluorobenzene	11.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane	114	C8H18	000111-65-9	87
2	Octane	114	C8H18	000111-65-9	83
3	Octane $$ n-Octane $$ n-C8H18 $$ Ok	114	C8H18	000111-65-9	74
4	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72

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Peak Number 20 Cyclohexane, ethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	1.24 ppbv	526585	Chlorobenzene-d5	15.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	95
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	94
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78

Tentatively Identified Compound (LSC) summary

Operator ID: Michael Truchan/Rachel Hill Date Acquired: 9 Apr 2011 11:34 am
Data File: C:\HPCHEM\1\DATA\040811\04081121.D
Name: 1103609-025A
Misc: SAMP EPA_TO15-ug/m3
Method: C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title: TO15 ppbv
Library Searched: C:\DATABASE\NIST129K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	5.36	25.3	ppbv	7715800	ISTD01	10.77	3810880	12.5
Butane $$ n-Butane $	6.34	3.3	ppbv	1007130	ISTD01	10.77	3810880	12.5
Butane, 2-methyl-	7.19	48.3	ppbv	14727600	ISTD01	10.77	3810880	12.5
Pentane $$ n-Pentane	7.56	19.6	ppbv	5962630	ISTD01	10.77	3810880	12.5
Butane, 2,2-dimethyl	8.18	4.5	ppbv	1358060	ISTD01	10.77	3810880	12.5
Pentane, 2-methyl- $	8.76	65.1	ppbv	19845400	ISTD01	10.77	3810880	12.5
Pentane, 3-methyl-	9.09	14.2	ppbv	4340680	ISTD01	10.77	3810880	12.5
Pentane, 2,4-dimethy	10.00	11.1	ppbv	3397010	ISTD01	10.77	3810880	12.5
Cyclopentane, methyl	10.22	15.4	ppbv	4702050	ISTD01	10.77	3810880	12.5
Pentane, 2,3-dimethy	10.95	14.2	ppbv	4329700	ISTD01	10.77	3810880	12.5
Cyclopentane, 1,1-di	11.21	2.1	ppbv	640295	ISTD01	10.77	3810880	12.5
Pentane, 2,2,4-trime	11.36	20.6	ppbv	8608890	ISTD02	11.86	5235640	12.5
2-Undecene, 6-methyl	12.28	3.1	ppbv	1288100	ISTD02	11.86	5235640	12.5
Cyclohexane, methyl-	12.39	16.3	ppbv	6814870	ISTD02	11.86	5235640	12.5
Pentane, 2,3,4-trime	12.80	3.8	ppbv	1572030	ISTD02	11.86	5235640	12.5
Heptane, 2-methyl-	12.94	3.1	ppbv	1302660	ISTD02	11.86	5235640	12.5
Heptane, 3-methyl-	13.15	1.7	ppbv	695914	ISTD02	11.86	5235640	12.5
Cyclohexane, 1,3-dim	13.57	3.1	ppbv	1290160	ISTD02	11.86	5235640	12.5
Octane	13.67	1.7	ppbv	715515	ISTD02	11.86	5235640	12.5
Cyclohexane, ethyl-	14.82	1.2	ppbv	526585	ISTD03	15.72	5312760	12.5

04081121.D 040711V1.M Thu Apr 14 16:52:27 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081122.D Vial: 3
Acq On : 9 Apr 2011 12:15 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 12:40 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	639567	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2372454	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1633861	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	988903	12.05	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 96.40%				
Target Compounds							Qvalue
2) Propylene	5.68	41	62966	1.27	ppbv		98
3) Dichlorodifluoromethane	5.76	85	183016	1.14	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.02	135	135613	1.17	ppbv		92
5) Chloromethane	6.19	50	72704	1.25	ppbv	#	96
6) Vinyl chloride	6.39	62	85034	1.34	ppbv	#	98
7) 1,3-Butadiene	6.45	39	68107	1.46	ppbv		95
8) Bromomethane	7.02	94	67306	1.15	ppbv		98
9) Chloroethane	7.17	64	38387	1.14	ppbv	#	96
10) Trichlorofluoromethane	7.51	101	182816	1.21	ppbv		98
11) Ethanol	7.74	45	14135	1.31	ppbv	#	91
12) Freon113	8.17	101	148895	1.24	ppbv		95
13) 1,1-Dichloroethene	8.27	61	109626	1.23	ppbv		95
14) Acetone	8.37	43	113372	1.56	ppbv	#	95
15) Carbon disulfide	8.64	76	186290	1.17	ppbv	#	99
16) 2-Propanol	8.42	45	68855	1.23	ppbv	#	1
17) Methylene chloride	8.93	49	92944	1.43	ppbv		92
18) tert-Butyl Methyl Ether	9.14	73	182260	1.40	ppbv	#	68
19) trans-1,2-Dichloroethene	9.20	61	100241	1.20	ppbv		97
20) n-Hexane	9.40	57	156615	1.74	ppbv		94
21) 1,1-Dichloroethane	9.77	63	125732	1.25	ppbv		99
22) Vinyl acetate	9.70	43	112430	1.20	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	71972	1.25	ppbv		96
24) 2-Butanone	10.43	43	106071	1.38	ppbv		93
25) Ethyl acetate	10.37	43	117438	1.23	ppbv	#	100
26) Tetrahydrofuran	10.77	42	74202	1.44	ppbv		88
27) Chloroform	10.78	83	145780	1.33	ppbv		97
28) 1,1,1-Trichloroethane	11.03	97	141471	1.26	ppbv		98
29) Cyclohexane	11.03	56	160342	1.78	ppbv		89
30) Carbon tetrachloride	11.19	117	136955	1.22	ppbv		97
31) Benzene	11.47	78	237435	1.65	ppbv		99
32) 1,2-Dichloroethane	11.55	62	84312	1.37	ppbv		99
34) Heptane	11.52	43	183924	1.70	ppbv		94
35) Trichloroethene	12.20	130	94607	1.22	ppbv		97
36) 1,2-Dichloropropane	12.56	63	69941	1.27	ppbv		99
37) 1,4-Dioxane	12.64	88	23660	1.00	ppbv		96
38) Bromodichloromethane	12.84	83	129184	1.19	ppbv		98
39) cis-1,3-Dichloropropene	13.39	75	97027	1.14	ppbv		99
40) 4-Methyl-2-pentanone	13.50	58	28379	1.10	ppbv		96
41) Toluene	13.80	91	330851	2.02	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	73666	1.04	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	71788	1.25	ppbv		99
44) Tetrachloroethene	14.51	166	116567	1.22	ppbv		98
45) 2-Hexanone	14.59	43	41230	0.96	ppbv		97
46) Chlorodibromomethane	14.93	129	111224	1.17	ppbv		99
47) 1,2-Dibromoethane	15.17	107	100104	1.21	ppbv		100
49) Chlorobenzene	15.76	112	148347	1.37	ppbv	#	88
50) Ethylbenzene	15.80	91	243064	1.43	ppbv		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040811\04081122.D Vial: 3
Acq On : 9 Apr 2011 12:15 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 12:40 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

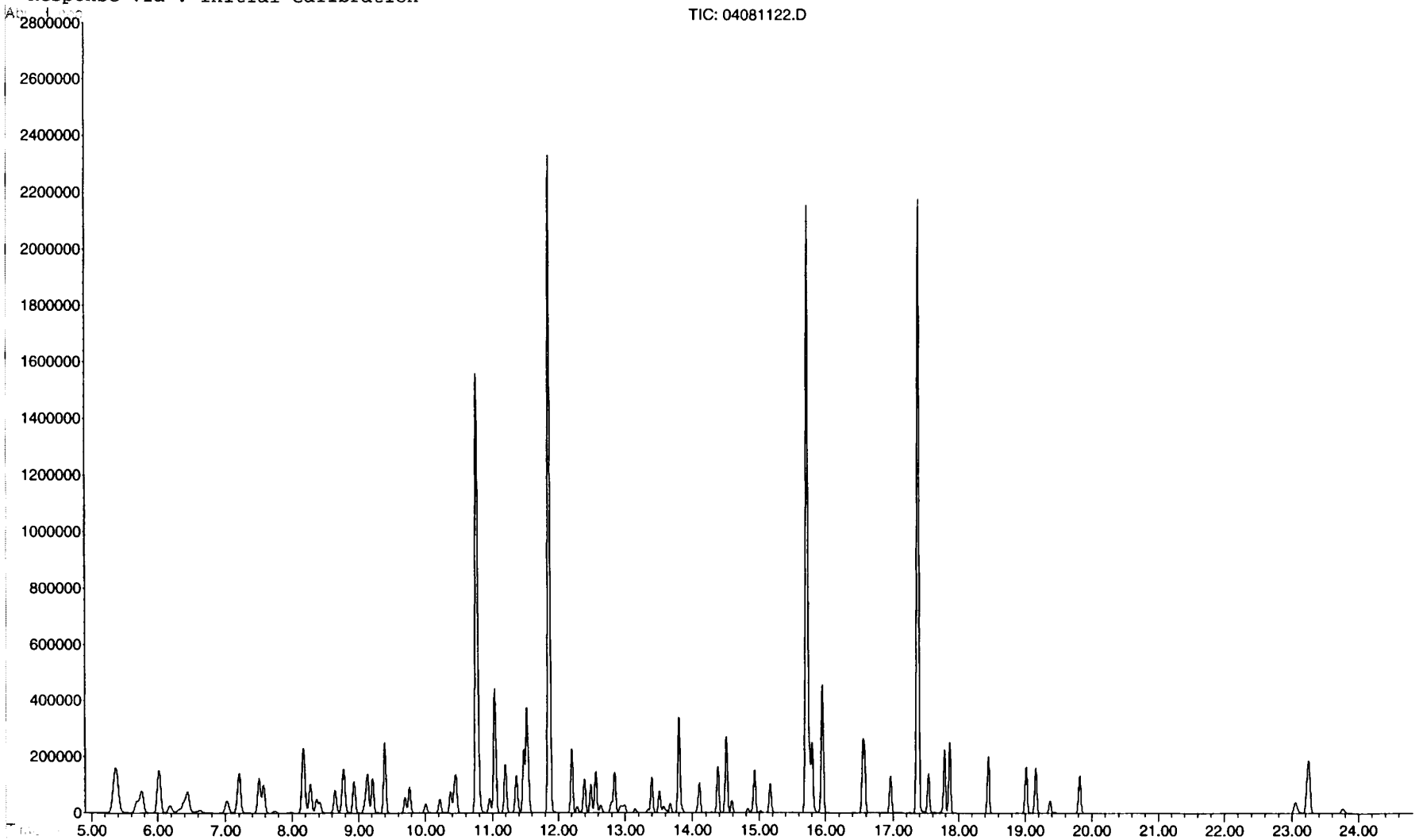
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	379838	2.92	ppbv		93
52)	o-Xylene	16.55	91	181096	1.38	ppbv		96
53)	Styrene	16.58	104	118278	1.23	ppbv		97
54)	Bromoform	16.96	173	89623	1.13	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	98115	1.23	ppbv		99
57)	4-Ethyltoluene	17.78	105	217513	1.36	ppbv		97
58)	1,3,5-Trimethylbenzene	17.86	105	186656	1.42	ppbv		94
59)	1,2,4-Trimethylbenzene	18.44	105	166152	1.33	ppbv		97
60)	1,3-Dichlorobenzene	19.01	146	110595	1.27	ppbv		98
61)	1,4-Dichlorobenzene	19.16	146	106595	1.26	ppbv		98
62)	Benzyl chloride	19.37	91	58780	1.09	ppbv		97
63)	1,2-Dichlorobenzene	19.82	146	96431	1.27	ppbv		98
64)	1,2,4-Trichlorobenzene	23.05	180	39743	0.75	ppbv		96
65)	Hexachlorobutadiene	23.24	225	91795	1.28	ppbv		99
66)	Naphthalene	23.76	128	46731	0.70	ppbv	#	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040811\04081122.D Vial: 3
Acq On : 9 Apr 2011 12:15 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 12:40 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Injection Log

Directory: C:\HPCHEM\1\DATA\031711

Line	Vial	FileName	Multiplier	SampleName	MiscInfo	Injected
1	1	03171101.d	1.	BFB 50cc voa020211c	4/14/11 icalEPA_TO15	17 Mar2011 09:24
2	2	03171102.d	1.	TO15 L1 18cc voa092310d	– NOT used mt/ch ICAL EPA_TO15	17 Mar2011 10:04
3	2	03171103.d	1.	TO15 L2 38cc voa092310d	ICAL EPA_TO15	17 Mar2011 10:45
4	1	03171104.d	1.	TO15 L3 20cc voa101910d	ICAL EPA_TO15	17 Mar2011 11:26
5	1	03171105.d	1.	TO15 L4 40cc voa101910d	ICAL EPA_TO15	17 Mar2011 12:07
6	1	03171106.d	1.	TO15 L5 48cc voa101910d	ICAL EPA_TO15	17 Mar2011 12:47
7	1	03171107.d	1.	TO15 L6 60cc voa101910d	ICAL EPA_TO15	17 Mar2011 13:27
8	1	03171108.d	1.	TO15 L7 80cc voa101910d	ICAL EPA_TO15	17 Mar2011 14:08
9	1	03171109.d	1.	BFB 50cc voa020211c	icalEPA_TO15	17 Mar2011 14:49
10	1	03171110.d	1.	TO15 CCV 40cc voa010711a	CCV EPA_TO15	17 Mar2011 15:29
11	2	03171112.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15	17 Mar2011 16:59
12	3	03171113.d	1.	APH CCV 150cc voa020211b > NA mt/ch	RLVS EPA_TO15	17 Mar2011 17:40
13	4	03171114.d	1.	APH RLVS 20cc voa020211a	RLVS EPA_TO15	17 Mar2011 18:20
14	1	03171115.d	1.	MBLK	MBLK EPA_TO15-ug/m3	17 Mar2011 19:04
15	3	03171116.d	2.	1103120-001A	SAMP EPA_TO15-ug/m3	17 Mar2011 19:47
16	4	03171117.d	2.	1103120-004A	SAMP EPA_TO15-ug/m3	17 Mar2011 20:31
17	6	03171118.d	2.	1103120-005A	SAMP EPA_TO15-ug/m3	17 Mar2011 21:15
18	7	03171119.d	2.	1103120-006A	SAMP EPA_TO15-ug/m3	17 Mar2011 21:58
19	8	03171120.d	2.	1103120-007A	SAMP EPA_TO15-ug/m3	17 Mar2011 22:42
20	9	03171121.d	2.	1103120-008A	SAMP EPA_TO15-ug/m3	17 Mar2011 23:26
21	10	03171122.d	2.	1103120-010A	SAMP EPA_TO15-ug/m3	18 Mar2011 00:10
22	11	03171123.d	2.	1103120-011A	SAMP EPA_TO15-ug/m3	18 Mar2011 00:53
23	12	03171124.d	2.	1103120-012A	SAMP EPA_TO15-ug/m3	18 Mar2011 01:36
24	13	03171125.d	2.	1103120-014A	SAMP EPA_TO15-ug/m3	18 Mar2011 02:20
25	14	03171126.d	40000.	1103120-013A	SAMP EPA_TO15-ug/m3	18 Mar2011 03:00
26	14	03171127.d	40000.	1103120-013ADUP	DUP EPA_TO15-ug/m3	18 Mar2011 03:41
27	15	03171128.d	80000.	1103120-002A	SAMP EPA_TO15-ug/m3	18 Mar2011 04:22
28	16	03171129.d	80000.	1103120-003A	SAMP EPA_TO15-ug/m3	18 Mar2011 05:03
29	1	03171130.d	80000.	1103120-009A	SAMP EPA_TO15-ug/m3	18 Mar2011 08:38
30	1	03171131.d	80000.	1103120-015A – DATA NOT used mt/ch	SAMP EPA_TO15-ug/m3	18 Mar2011 09:19
31	4	03171132.d	40.	1103120-004A	SAMP EPA_TO15-ug/m3	18 Mar2011 10:00
32	6	03171133.d	40.	1103120-005A	SAMP EPA_TO15-ug/m3	18 Mar2011 10:40
33	7	03171134.d	40.	1103120-006A	SAMP EPA_TO15-ug/m3	18 Mar2011 11:21
34	8	03171135.d	40.	1103120-007A	SAMP EPA_TO15-ug/m3	18 Mar2011 12:01
35	9	03171136.d	40.	1103120-008A	SAMP EPA_TO15-ug/m3	18 Mar2011 12:42
36	10	03171137.d	40.	1103120-010A	SAMP EPA_TO15-ug/m3	18 Mar2011 13:23
37	2	03171138.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15	18 Mar2011 14:04
38	4	03171139.d	1.	APH RLVS 20cc voa020211a	RLVS EPA_TO15	18 Mar2011 14:45
39	1	03171140.d	1.	BFB 50cc voa020211c	icalEPA_TO15	18 Mar2011 16:39
40	2	03171141.d	1.	TO15 CCV 40cc voa010711a	CCV EPA_TO15	18 Mar2011 17:20
41	3	03171142.d	1.	APH CCV 150cc voa020211b	RLVS EPA_TO15	18 Mar2011 18:02
42	1	03171143.d	1.	MBLK	MBLK EPA_TO15-ug/m3	18 Mar2011 18:48
43	11	03171144.d	40.	1103120-011A	SAMP EPA_TO15-ug/m3	18 Mar2011 19:29
44	12	03171145.d	40.	1103120-012A	SAMP EPA_TO15-ug/m3	18 Mar2011 20:09
45	13	03171146.d	40.	1103120-014A	SAMP EPA_TO15-ug/m3	18 Mar2011 20:50
46	14	03171147.d	16000.	1103120-015A	SAMP EPA_TO15-ug/m3	18 Mar2011 21:31
47	15	03171148.d	16000.	1103120-015ADUP	DUP EPA_TO15-ug/m3	18 Mar2011 22:12
48	2	03171149.d	1.	TO15 RLVS 20cc voa092310d	RLVS EPA_TO15	18 Mar2011 22:53
49	4	03171150.d	1.	APH RLVS 20cc voa020211a	RLVS EPA_TO15	18 Mar2011 23:34

DATA NOT used mt/ch

RLVS DATA used

NOT used mt/ch

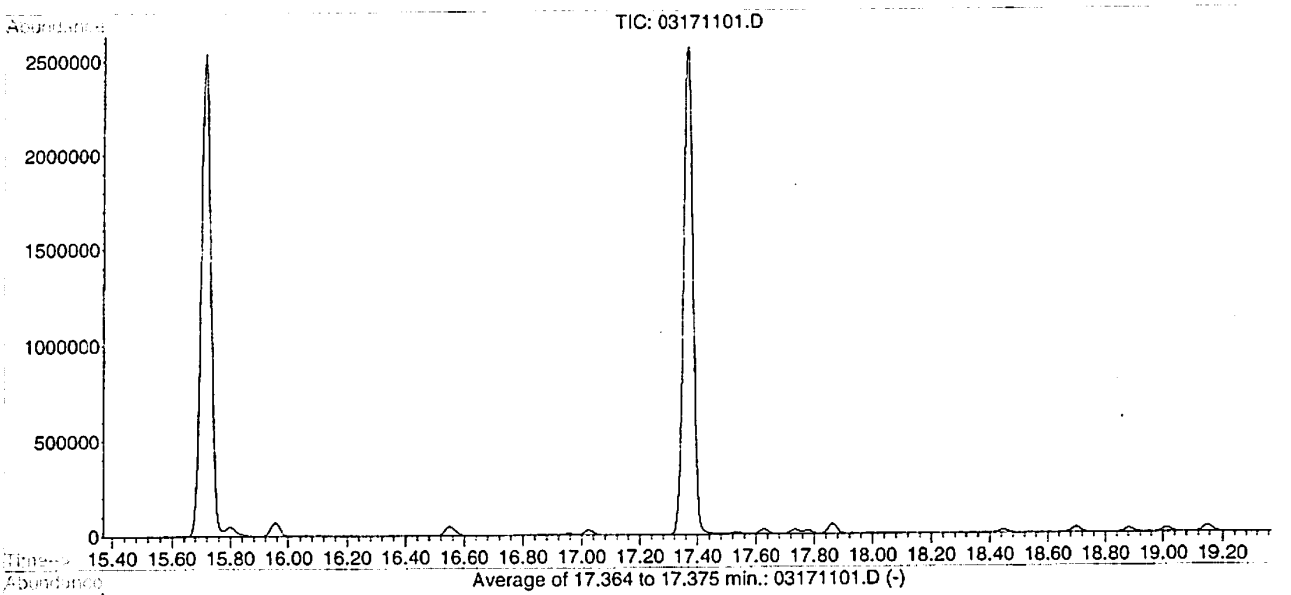
DATA NOT used mt/ch

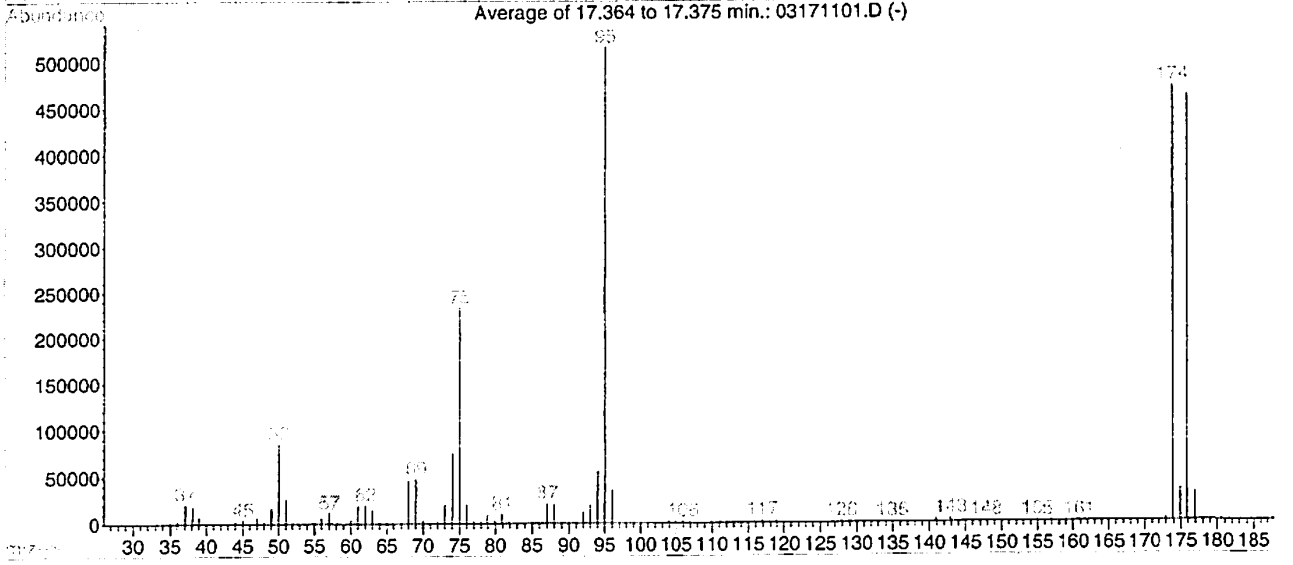
DATA NOT used mt/ch

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\031711\03171101.D
Acq On : 17 Mar 2011 9:24 am
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00





Spectrum Information: Average of 17.364 to 17.375 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	85421	PASS
75	95	30	60	45.2	232619	PASS
95	95	100	100	100.0	515200	PASS
96	95	5	9	6.8	35024	PASS
173	174	0.00	2	0.6	3042	PASS
174	95	50	120	91.4	471040	PASS
175	174	4	9	7.2	34096	PASS
176	174	93	101	98.0	461589	PASS
177	176	5	9	6.6	30531	PASS

03171101.D 031611V1.M Wed Apr 13 18:43:23 2011

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

Calibration Files
2 =03171103.D 3 =03171104.D 4 =03171105.D
5 =03171106.D 6 =03171107.D 7 =03171108.D

		Compound	2	3	4	5	6	7	Avg	%RSD
1)	I	Bromochloromethane	ISTD							
2)	T	Propylene	1.121	1.030	0.881	0.877	0.859	0.855	0.937	11.89
3)	T	Dichlorodifluoromet	3.711	3.422	2.907	2.872	2.809	2.758	3.080	12.71
4)	T	1,2-Dichloro-1,2,2,	2.740	2.506	2.140	2.098	2.063	2.049	2.266	12.71
5)	T	Chloromethane	1.354	1.187	0.993	0.967	0.944	0.923	1.061	16.21
6)	T	Vinyl chloride	1.493	1.422	1.169	1.100	1.036	0.987	1.201	17.40
7)	T	1,3-Butadiene	1.273	1.081	0.900	0.879	0.821	0.718	0.945	21.13
8)	T	Bromomethane	1.270	1.215	1.045	1.028	1.019	1.023	1.100	10.20
9)	T	Chloroethane	0.751	0.701	0.606	0.598	0.593	0.589	0.640	10.76
10)	T	Trichlorofluorometh	3.571	3.235	2.778	2.748	2.684	2.618	2.939	12.89
11)	T	Ethanol	0.215	0.268	0.189	0.186	0.200	0.189	0.208	15.16
12)	T	Freon113	2.847	2.556	2.264	2.235	2.160	2.104	2.361	12.07
13)	T	1,1-Dichloroethene	2.101	1.903	1.652	1.613	1.570	1.546	1.731	12.85
14)	T	Acetone	2.101	1.801	1.364	1.315	1.379	1.284	1.541	21.64
15)	T	Carbon disulfide	3.688	3.383	2.913	2.902	2.820	2.818	3.087	11.74
16)	T	2-Propanol	1.043	1.434	1.036	1.025	1.086	1.031	1.109	14.48
17)	T	Methylene chloride	1.613	1.366	1.173	1.158	1.131	1.112	1.259	15.58
18)	T	tert-Butyl Methyl E	4.240	3.186	2.506	2.381	2.499	2.337	2.858	26.04
19)	T	trans-1,2-Dichloroe	1.970	1.777	1.552	1.527	1.484	1.469	1.630	12.30
20)	T	n-Hexane	2.384	1.953	1.715	1.683	1.633	1.584	1.825	16.54
21)	T	1,1-Dichloroethane	2.480	2.162	1.892	1.868	1.834	1.793	2.005	13.31
22)	T	Vinyl acetate	2.792	2.282	1.841	1.759	1.867	1.764	2.051	20.08
23)	T	cis-1,2-Dichloroeth	1.385	1.245	1.080	1.061	1.069	1.038	1.146	12.10
24)	T	2-Butanone	2.022	1.894	1.361	1.373	1.467	1.420	1.589	18.30
25)	T	Ethyl acetate	2.379	2.359	1.740	1.752	1.894	1.770	1.982	15.36
26)	T	Tetrahydrofuran	1.236	1.255	0.963	0.922	0.968	0.907	1.042	15.33
27)	T	Chloroform	2.813	2.449	2.047	1.953	1.959	1.850	2.179	17.17
28)	T	1,1,1-Trichloroetha	2.831	2.528	2.132	2.058	2.043	1.915	2.251	15.65
29)	T	Cyclohexane	2.465	2.008	1.739	1.686	1.642	1.551	1.848	18.35
30)	T	Carbon tetrachlorid	2.776	2.488	2.142	2.068	2.077	1.972	2.254	13.82
31)	T	Benzene	4.394	3.373	2.763	2.670	2.755	2.586	3.090	22.56
32)	T	1,2-Dichloroethane	1.684	1.406	1.139	1.090	1.110	1.038	1.244	20.16
33)	I	1,4-Difluorobenzene	ISTD							
34)	T	Heptane	0.807	0.696	0.561	0.534	0.533	0.492	0.604	20.18
35)	T	Trichloroethene	0.551	0.477	0.392	0.381	0.390	0.366	0.426	17.03
36)	T	1,2-Dichloropropane	0.394	0.338	0.274	0.260	0.278	0.261	0.301	17.93
37)	T	1,4-Dioxane	0.127	0.141	0.110	0.107	0.121	0.112	0.120	10.77
38)	T	Bromodichloromethan	0.741	0.669	0.547	0.525	0.541	0.512	0.589	15.84
39)	T	cis-1,3-Dichloropro	0.576	0.529	0.423	0.409	0.429	0.410	0.463	15.41
40)	T	4-Methyl-2-pentanon	0.138	0.172	0.128	0.123	0.137	0.129	0.138	12.96
41)	T	Toluene	1.337	1.065	0.834	0.792	0.839	0.784	0.942	23.30
42)	T	trans-1,3-Dichlorop	0.467	0.437	0.350	0.339	0.359	0.346	0.383	14.29
43)	T	1,1,2-Trichloroetha	0.391	0.349	0.279	0.266	0.284	0.273	0.307	16.63
44)	T	Tetrachloroethene	0.674	0.601	0.483	0.463	0.465	0.447	0.522	17.77
45)	T	2-Hexanone	0.134	0.259	0.201	0.193	0.218	0.204	0.201	20.24
46)	T	Chlorodibromomethan	0.633	0.585	0.477	0.454	0.483	0.457	0.515	14.65
47)	T	1,2-Dibromoethane	0.562	0.511	0.410	0.391	0.416	0.393	0.447	16.02
48)	I	Chlorobenzene-d5	ISTD							
49)	T	Chlorobenzene	1.170	0.999	0.798	0.755	0.798	0.754	0.879	19.26
50)	T	Ethylbenzene	2.162	1.646	1.279	1.203	1.262	1.167	1.453	26.67
51)	T	m,p-Xylene	1.635	1.315	1.014	0.945	0.971	0.871	1.125	26.04
52)	T	o-Xylene	1.582	1.249	0.975	0.914	0.968	0.887	1.096	24.73
53)	T	Styrene	0.960	0.862	0.687	0.650	0.700	0.654	0.752	17.07
54)	T	Bromoform	0.811	0.732	0.581	0.545	0.578	0.536	0.631	17.97
55)	S	4-Bromofluorobenzen	0.619	0.631	0.629	0.619	0.630	0.631	0.627	0.94

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

Calibration Files
2 =03171103.D 3 =03171104.D 4 =03171105.D
5 =03171106.D 6 =03171107.D 7 =03171108.D

		Compound	2	3	4	5	6	7	Avg	%RSD
56)	T	1,1,2,2-Tetrachloro	0.770	0.723	0.570	0.537	0.579	0.549	0.621	15.96
57)	T	4-Ethyltoluene	1.921	1.498	1.141	1.071	1.155	1.071	1.309	25.92
58)	T	1,3,5-Trimethylbenz	1.655	1.229	0.935	0.869	0.927	0.866	1.080	28.91
59)	T	1,2,4-Trimethylbenz	1.300	1.116	0.863	0.814	0.873	0.822	0.965	20.59
60)	T	1,3-Dichlorobenzene	0.912	0.786	0.602	0.567	0.600	0.561	0.671	21.51
61)	T	1,4-Dichlorobenzene	0.849	0.755	0.582	0.549	0.579	0.536	0.642	20.07
62)	T	Benzyl chloride	0.537	0.464	0.376	0.361	0.403	0.378	0.420	16.18
63)	T	1,2-Dichlorobenzene	0.784	0.685	0.515	0.490	0.517	0.487	0.580	21.50
64)	T	1,2,4-Trichlorobenz	0.229	0.381	0.325	0.325	0.376	0.347	0.330	16.70
65)	T	Hexachlorobutadiene	0.726	0.670	0.526	0.504	0.550	0.492	0.578	16.73
66)		Naphthalene	0.299	0.431	0.389	0.401	0.462	0.428	0.402	14.02

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171103.D Vial: 2
Acq On : 17 Mar 2011 10:45 am Operator: Michael Truchan
Sample : TO15 L2 38cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	719679	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2581759	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1755447	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1087127	12.36	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.88%				
Target Compounds							Qvalue
2) Propylene	5.67	41	65836	1.22	ppbv		99
3) Dichlorodifluoromethane	5.75	85	196590	1.11	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	149856	1.15	ppbv		95
5) Chloromethane	6.17	50	74063	1.21	ppbv		96
6) Vinyl chloride	6.38	62	80784	1.17	ppbv	#	99
7) 1,3-Butadiene	6.44	39	71823	1.32	ppbv		96
8) Bromomethane	7.01	94	68020	1.07	ppbv		98
9) Chloroethane	7.18	64	39762	1.08	ppbv		99
10) Trichlorofluoromethane	7.51	101	197377	1.17	ppbv		99
11) Ethanol	7.72	45	11378	0.95	ppbv	#	92
12) Freon113	8.16	101	160650	1.18	ppbv		98
13) 1,1-Dichloroethene	8.26	61	119766	1.20	ppbv		94
14) Acetone	8.36	43	120953	1.36	ppbv	#	96
15) Carbon disulfide	8.64	76	205942	1.16	ppbv	#	99
16) 2-Propanol	8.40	45	60634	0.95	ppbv	#	39
17) Methylene chloride	8.92	49	92889	1.28	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	241665	1.47	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	111137	1.18	ppbv		95
20) n-Hexane	9.39	57	138617	1.32	ppbv		95
21) 1,1-Dichloroethane	9.76	63	138520	1.20	ppbv		98
22) Vinyl acetate	9.70	43	159133	1.35	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	78136	1.18	ppbv		95
24) 2-Butanone	10.42	43	115245	1.26	ppbv		94
25) Ethyl acetate	10.37	43	134231	1.18	ppbv	#	99
26) Tetrahydrofuran	10.76	42	71169	1.19	ppbv		97
27) Chloroform	10.77	83	158728	1.27	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	156450	1.21	ppbv		98
29) Cyclohexane	11.03	56	139060	1.31	ppbv		94
30) Carbon tetrachloride	11.19	117	151819	1.17	ppbv		99
31) Benzene	11.47	78	242843	1.36	ppbv		99
32) 1,2-Dichloroethane	11.55	62	94039	1.31	ppbv		97
34) Heptane	11.52	43	165039	1.32	ppbv		95
35) Trichloroethene	12.20	130	109339	1.24	ppbv		99
36) 1,2-Dichloropropane	12.56	63	79730	1.28	ppbv		98
37) 1,4-Dioxane	12.63	88	25220	1.02	ppbv		99
38) Bromodichloromethane	12.84	83	146923	1.21	ppbv		98
39) cis-1,3-Dichloropropene	13.39	75	113013	1.18	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	28437	1.00	ppbv		98
41) Toluene	13.80	91	270670	1.39	ppbv		98
42) trans-1,3-Dichloropropene	14.11	75	87864	1.11	ppbv		97
43) 1,1,2-Trichloroethane	14.37	97	79184	1.25	ppbv		98
44) Tetrachloroethene	14.51	166	133604	1.24	ppbv		98
45) 2-Hexanone	14.59	43	27057	0.65	ppbv		98
46) Chlorodibromomethane	14.93	129	128117	1.21	ppbv		99
47) 1,2-Dibromoethane	15.16	107	111416	1.21	ppbv		100
49) Chlorobenzene	15.76	112	162644	1.32	ppbv	#	88
50) Ethylbenzene	15.80	91	297584	1.46	ppbv		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171103.D Vial: 2
Acq On : 17 Mar 2011 10:45 am Operator: Michael Truchan
Sample : TO15 L2 38cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.95	91	440951	2.79	ppbv		94
52) o-Xylene	16.55	91	222128	1.44	ppbv		97
53) Styrene	16.57	104	132105	1.25	ppbv		97
54) Bromoform	16.96	173	109330	1.23	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	108134	1.24	ppbv		99
57) 4-Ethyltoluene	17.78	105	264403	1.44	ppbv		98
58) 1,3,5-Trimethylbenzene	17.86	105	225406	1.49	ppbv		94
59) 1,2,4-Trimethylbenzene	18.45	105	178968	1.32	ppbv		100
60) 1,3-Dichlorobenzene	19.01	146	124263	1.32	ppbv		97
61) 1,4-Dichlorobenzene	19.16	146	114482	1.27	ppbv		98
62) Benzyl chloride	19.37	91	73142	1.24	ppbv		98
63) 1,2-Dichlorobenzene	19.82	146	106861	1.31	ppbv		97
64) 1,2,4-Trichlorobenzene	23.05	180	29245	0.63	ppbv		97
65) Hexachlorobutadiene	23.24	225	95846	1.18	ppbv		98
66) Naphthalene	23.77	128	38688	0.69	ppbv	#	84

(#) = qualifier out of range (m) = manual integration
03171103.D 031611V1.M Wed Apr 13 10:11:50 2011 Page 2

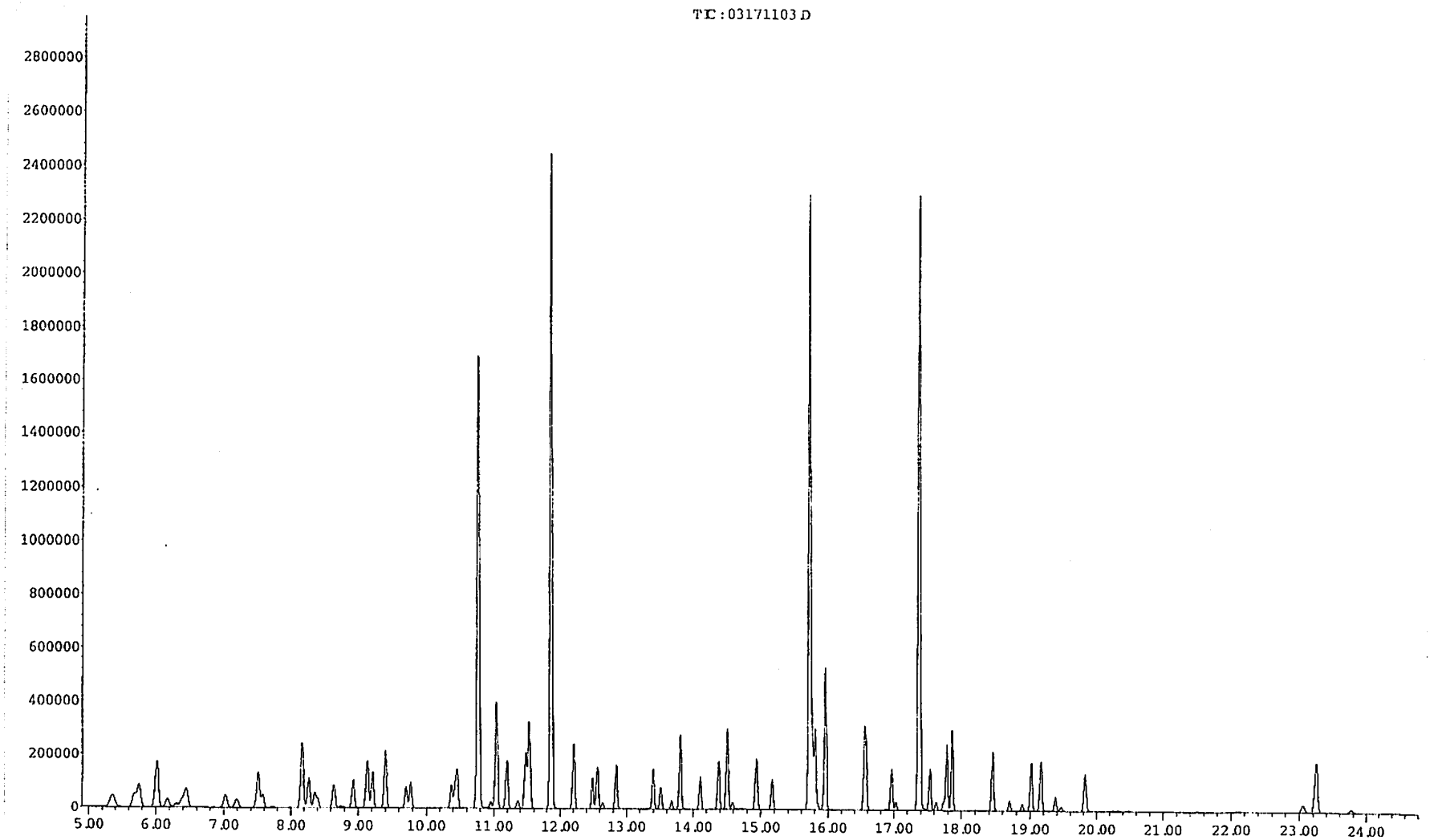
Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171103.D
Acq On : 17 Mar 2011 10:45 am
Sample : TO15 L2 38cc voa092310d
Misc : ICAL EPA_TO15
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011

Vial: 2
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 11:26 am Operator: Michael Truchan
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	750328	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2628904	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	1829920	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1154500	12.59	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.72%				
Target Compounds							Qvalue
2) Propylene	5.68	41	315167	5.60	ppbv		99
3) Dichlorodifluoromethane	5.75	85	944903	5.11	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	714431	5.25	ppbv		95
5) Chloromethane	6.17	50	338575	5.31	ppbv		99
6) Vinyl chloride	6.38	62	401202	5.57	ppbv		100
7) 1,3-Butadiene	6.44	39	317949	5.60	ppbv		98
8) Bromomethane	7.02	94	339071	5.14	ppbv		99
9) Chloroethane	7.17	64	193644	5.04	ppbv		99
10) Trichlorofluoromethane	7.51	101	932049	5.28	ppbv		99
11) Ethanol	7.73	45	74060	5.94	ppbv		99
12) Freon113	8.17	101	751777	5.30	ppbv		97
13) 1,1-Dichloroethene	8.27	61	565436	5.44	ppbv		96
14) Acetone	8.36	43	540405	5.84	ppbv		99
15) Carbon disulfide	8.64	76	984933	5.31	ppbv	#	99
16) 2-Propanol	8.40	45	434732	6.53	ppbv		98
17) Methylene chloride	8.93	49	409838	5.42	ppbv		93
18) tert-Butyl Methyl Ether	9.12	73	946664	5.52	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	522730	5.34	ppbv		94
20) n-Hexane	9.40	57	591958	5.40	ppbv		97
21) 1,1-Dichloroethane	9.77	63	629393	5.23	ppbv		99
22) Vinyl acetate	9.70	43	677982	5.51	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	366291	5.32	ppbv		95
24) 2-Butanone	10.42	43	562800	5.90	ppbv		95
25) Ethyl acetate	10.37	43	693752	5.83	ppbv	#	100
26) Tetrahydrofuran	10.76	42	376702	6.02	ppbv		97
27) Chloroform	10.77	83	720193	5.51	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	728269	5.39	ppbv		99
29) Cyclohexane	11.03	56	590545	5.32	ppbv		96
30) Carbon tetrachloride	11.19	117	709514	5.24	ppbv		99
31) Benzene	11.47	78	971876	5.24	ppbv		99
32) 1,2-Dichloroethane	11.55	62	409244	5.48	ppbv		99
34) Heptane	11.52	43	724514	5.71	ppbv		95
35) Trichloroethene	12.20	130	481041	5.37	ppbv		98
36) 1,2-Dichloropropane	12.56	63	348229	5.50	ppbv		100
37) 1,4-Dioxane	12.63	88	142808	5.67	ppbv		99
38) Bromodichloromethane	12.84	83	675085	5.45	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	528218	5.43	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	180875	6.25	ppbv		98
41) Toluene	13.80	91	1097954	5.54	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	417786	5.19	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	359186	5.57	ppbv		99
44) Tetrachloroethene	14.51	166	606310	5.52	ppbv		99
45) 2-Hexanone	14.58	43	267327	6.31	ppbv		99
46) Chlorodibromomethane	14.93	129	602712	5.57	ppbv		99
47) 1,2-Dibromoethane	15.17	107	515861	5.48	ppbv		99
49) Chlorobenzene	15.76	112	723755	5.63	ppbv	#	95
50) Ethylbenzene	15.80	91	1180483	5.55	ppbv		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 11:26 am Operator: Michael Truchan
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	m,p-Xylene	15.96	91	1847933	11.22	ppbv	95
52)	o-Xylene	16.55	91	914451	5.70	ppbv	97
53)	Styrene	16.57	104	618596	5.62	ppbv	98
54)	Bromoform	16.96	173	514343	5.57	ppbv	99
56)	1,1,2,2-Tetrachloroethane	17.53	83	528920	5.82	ppbv	98
57)	4-Ethyltoluene	17.78	105	1074807	5.61	ppbv	98
58)	1,3,5-Trimethylbenzene	17.86	105	872370	5.52	ppbv	97
59)	1,2,4-Trimethylbenzene	18.45	105	800229	5.67	ppbv	98
60)	1,3-Dichlorobenzene	19.01	146	557937	5.68	ppbv	98
61)	1,4-Dichlorobenzene	19.16	146	530226	5.64	ppbv	99
62)	Benzyl chloride	19.37	91	329707	5.36	ppbv	99
63)	1,2-Dichlorobenzene	19.82	146	486032	5.73	ppbv	98
64)	1,2,4-Trichlorobenzene	23.04	180	253661	5.24	ppbv	98
65)	Hexachlorobutadiene	23.24	225	461069	5.45	ppbv	99
66)	Naphthalene	23.75	128	290181	4.93	ppbv	99

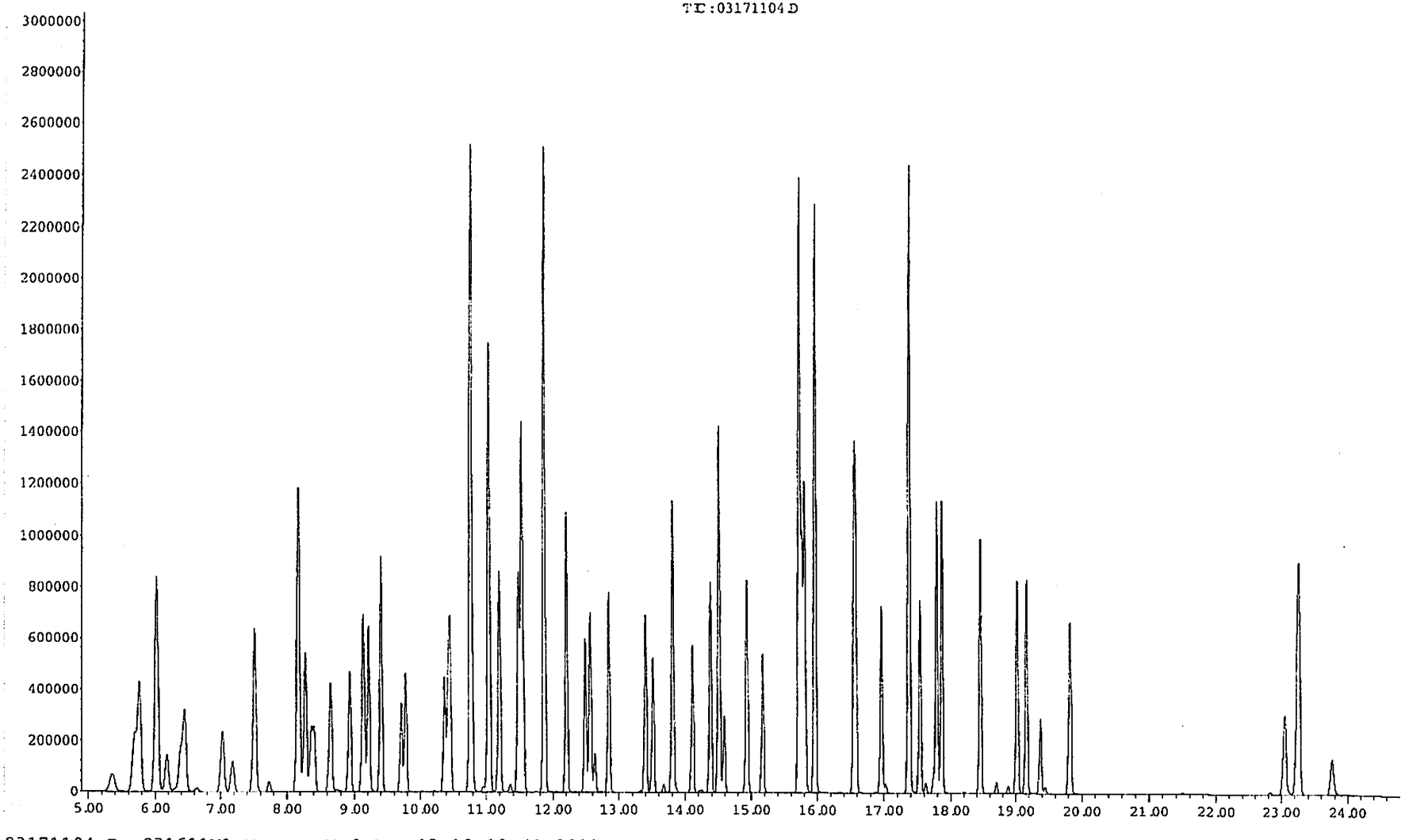
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171104.D Vial: 1
Acq On : 17 Mar 2011 11:26 am Operator: Michael Truchan
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171104.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171105.D Vial: 1
Acq On : 17 Mar 2011 12:07 pm Operator: Michael Truchan
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	761809	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2701895	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1886138	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1186383	12.55	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.40%				
Target Compounds							Qvalue
2) Propylene	5.68	41	547587	9.59	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1630034	8.68	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1239119	8.97	ppbv		95
5) Chloromethane	6.17	50	575179	8.89	ppbv		99
6) Vinyl chloride	6.38	62	669419	9.15	ppbv		100
7) 1,3-Butadiene	6.44	39	537271	9.33	ppbv		99
8) Bromomethane	7.02	94	592339	8.84	ppbv		99
9) Chloroethane	7.17	64	339537	8.71	ppbv		99
10) Trichlorofluoromethane	7.51	101	1625260	9.07	ppbv		99
11) Ethanol	7.73	45	105743	8.35	ppbv		99
12) Freon113	8.16	101	1352179	9.40	ppbv		97
13) 1,1-Dichloroethene	8.27	61	996578	9.45	ppbv		95
14) Acetone	8.35	43	831373	8.86	ppbv		99
15) Carbon disulfide	8.64	76	1722183	9.15	ppbv	#	99
16) 2-Propanol	8.40	45	637527	9.43	ppbv		97
17) Methylene chloride	8.92	49	715151	9.32	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	1511902	8.68	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	926685	9.33	ppbv		95
20) n-Hexane	9.39	57	1055941	9.49	ppbv		98
21) 1,1-Dichloroethane	9.77	63	1118495	9.15	ppbv		99
22) Vinyl acetate	9.70	43	1110991	8.89	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	644780	9.23	ppbv		96
24) 2-Butanone	10.42	43	820950	8.48	ppbv		98
25) Ethyl acetate	10.37	43	1039385	8.60	ppbv	#	99
26) Tetrahydrofuran	10.76	42	586606	9.24	ppbv		97
27) Chloroform	10.77	83	1222783	9.21	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1247271	9.09	ppbv		99
29) Cyclohexane	11.04	56	1038420	9.22	ppbv		97
30) Carbon tetrachloride	11.19	117	1240134	9.03	ppbv		99
31) Benzene	11.47	78	1616313	8.58	ppbv		99
32) 1,2-Dichloroethane	11.54	62	673400	8.88	ppbv		99
34) Heptane	11.52	43	1200216	9.20	ppbv		97
35) Trichloroethene	12.20	130	813955	8.84	ppbv		98
36) 1,2-Dichloropropane	12.56	63	581416	8.94	ppbv		100
37) 1,4-Dioxane	12.63	88	227952	8.80	ppbv		98
38) Bromodichloromethane	12.84	83	1134765	8.91	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	869291	8.69	ppbv		98
40) 4-Methyl-2-pentanone	13.50	58	275671	9.27	ppbv		98
41) Toluene	13.80	91	1767585	8.68	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	688644	8.32	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	590718	8.91	ppbv		98
44) Tetrachloroethene	14.50	166	1003018	8.89	ppbv		100
45) 2-Hexanone	14.58	43	425318	9.77	ppbv		98
46) Chlorodibromomethane	14.93	129	1010876	9.09	ppbv		100
47) 1,2-Dibromoethane	15.16	107	851354	8.81	ppbv		98
49) Chlorobenzene	15.76	112	1192798	8.99	ppbv		96
50) Ethylbenzene	15.80	91	1891165	8.62	ppbv		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171105.D Vial: 1
Acq On : 17 Mar 2011 12:07 pm Operator: Michael Truchan
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51) m,p-Xylene	15.96	91	2938536	17.31 ppbv	97
52) o-Xylene	16.55	91	1470572	8.89 ppbv	97
53) Styrene	16.57	104	1016002	8.95 ppbv	99
54) Bromoform	16.96	173	841378	8.84 ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	859455	9.17 ppbv	98
57) 4-Ethyltoluene	17.78	105	1687177	8.54 ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	1369110	8.40 ppbv	98
59) 1,2,4-Trimethylbenzene	18.45	105	1276666	8.77 ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	880856	8.70 ppbv	99
61) 1,4-Dichlorobenzene	19.16	146	843762	8.71 ppbv	100
62) Benzyl chloride	19.37	91	549671	8.67 ppbv	99
63) 1,2-Dichlorobenzene	19.81	146	754425	8.63 ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	446787	8.96 ppbv	97
65) Hexachlorobutadiene	23.24	225	746486	8.56 ppbv	99
66) Naphthalene	23.75	128	539735	8.90 ppbv	100

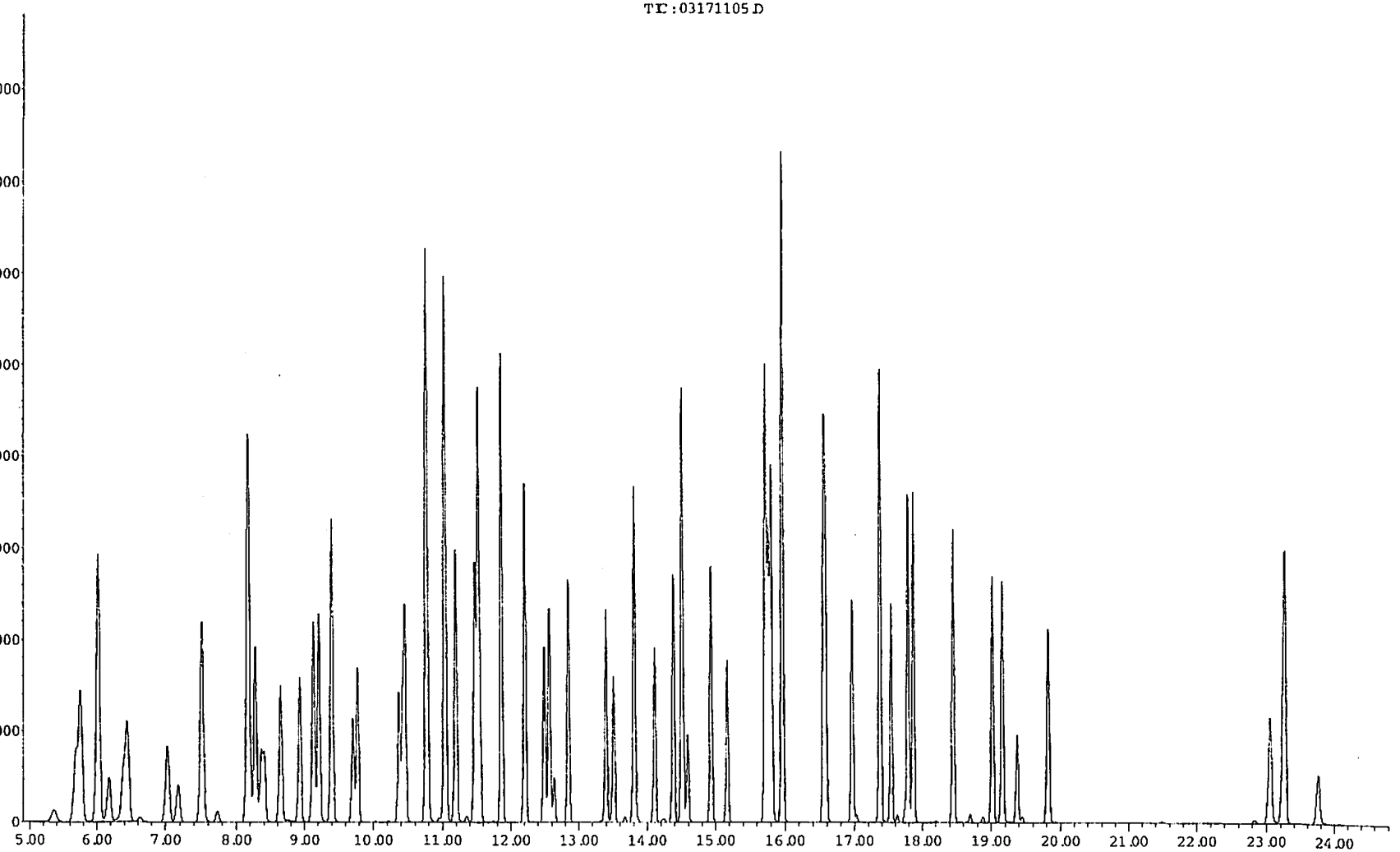
(#) = qualifier out of range (m) = manual integration
03171105.D 031611V1.M Wed Apr 13 10:12:46 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171105.D Vial: 1
Acq On : 17 Mar 2011 12:07 pm Operator: Michael Truchan
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171105.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171106.D Vial: 1
Acq On : 17 Mar 2011 12:47 pm Operator: Michael Truchan
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	761450	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2701361	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1897863	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1174064	12.34	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 98.72%				
Target Compounds							Qvalue
2) Propylene	5.68	41	651537	11.41	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1924626	10.26	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1456960	10.56	ppbv		95
5) Chloromethane	6.17	50	671712	10.39	ppbv		99
6) Vinyl chloride	6.38	62	757034	10.35	ppbv		99
7) 1,3-Butadiene	6.44	39	631525	10.97	ppbv		99
8) Bromomethane	7.02	94	701531	10.47	ppbv		99
9) Chloroethane	7.17	64	400833	10.29	ppbv		99
10) Trichlorofluoromethane	7.50	101	1925124	10.75	ppbv		99
11) Ethanol	7.73	45	124373	9.83	ppbv		99
12) Freon113	8.16	101	1606842	11.17	ppbv		97
13) 1,1-Dichloroethene	8.27	61	1169540	11.09	ppbv		96
14) Acetone	8.36	43	961219	10.24	ppbv		99
15) Carbon disulfide	8.64	76	2050425	10.90	ppbv	#	100
16) 2-Propanol	8.40	45	755799	11.19	ppbv	#	1
17) Methylene chloride	8.93	49	846574	11.04	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	1726080	9.91	ppbv		100
19) trans-1,2-Dichloroethene	9.21	61	1097754	11.06	ppbv		95
20) n-Hexane	9.40	57	1240312	11.15	ppbv		99
21) 1,1-Dichloroethane	9.77	63	1320236	10.81	ppbv		100
22) Vinyl acetate	9.70	43	1275066	10.21	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	762853	10.92	ppbv		96
24) 2-Butanone	10.42	43	994976	10.28	ppbv		96
25) Ethyl acetate	10.37	43	1259569	10.43	ppbv	#	100
26) Tetrahydrofuran	10.76	42	673837	10.62	ppbv		98
27) Chloroform	10.77	83	1403783	10.58	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1441381	10.51	ppbv		99
29) Cyclohexane	11.04	56	1211615	10.76	ppbv		97
30) Carbon tetrachloride	11.19	117	1435774	10.46	ppbv		100
31) Benzene	11.47	78	1870676	9.94	ppbv		99
32) 1,2-Dichloroethane	11.55	62	770574	10.17	ppbv		99
34) Heptane	11.52	43	1373349	10.53	ppbv		97
35) Trichloroethene	12.20	130	946290	10.27	ppbv		98
36) 1,2-Dichloropropane	12.56	63	662600	10.19	ppbv		100
37) 1,4-Dioxane	12.63	88	267108	10.32	ppbv		98
38) Bromodichloromethane	12.84	83	1305267	10.25	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1008315	10.08	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	317760	10.69	ppbv		98
41) Toluene	13.80	91	2019751	9.92	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	798165	9.64	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	677347	10.22	ppbv		98
44) Tetrachloroethene	14.50	166	1151110	10.20	ppbv		100
45) 2-Hexanone	14.59	43	492186	11.31	ppbv		99
46) Chlorodibromomethane	14.93	129	1156598	10.40	ppbv		100
47) 1,2-Dibromoethane	15.17	107	971173	10.05	ppbv		99
49) Chlorobenzene	15.76	112	1363855	10.22	ppbv		97
50) Ethylbenzene	15.80	91	2155720	9.77	ppbv		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171106.D Vial: 1
Acq On : 17 Mar 2011 12:47 pm Operator: Michael Truchan
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	3298530	19.31	ppbv	97
52) o-Xylene	16.55	91	1665348	10.01	ppbv	97
53) Styrene	16.57	104	1164473	10.20	ppbv	99
54) Bromoform	16.96	173	951983	9.94	ppbv	100
56) 1,1,2,2-Tetrachloroethane	17.53	83	979088	10.38	ppbv	99
57) 4-Ethyltoluene	17.78	105	1918171	9.65	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	1529707	9.33	ppbv	98
59) 1,2,4-Trimethylbenzene	18.45	105	1458140	9.96	ppbv	99
60) 1,3-Dichlorobenzene	19.01	146	998351	9.80	ppbv	100
61) 1,4-Dichlorobenzene	19.16	146	958544	9.84	ppbv	99
62) Benzyl chloride	19.37	91	636604	9.98	ppbv	99
63) 1,2-Dichlorobenzene	19.82	146	862999	9.81	ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	538217	10.73	ppbv	98
65) Hexachlorobutadiene	23.24	225	864097	9.85	ppbv	99
66) Naphthalene	23.75	128	669793	10.98	ppbv	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

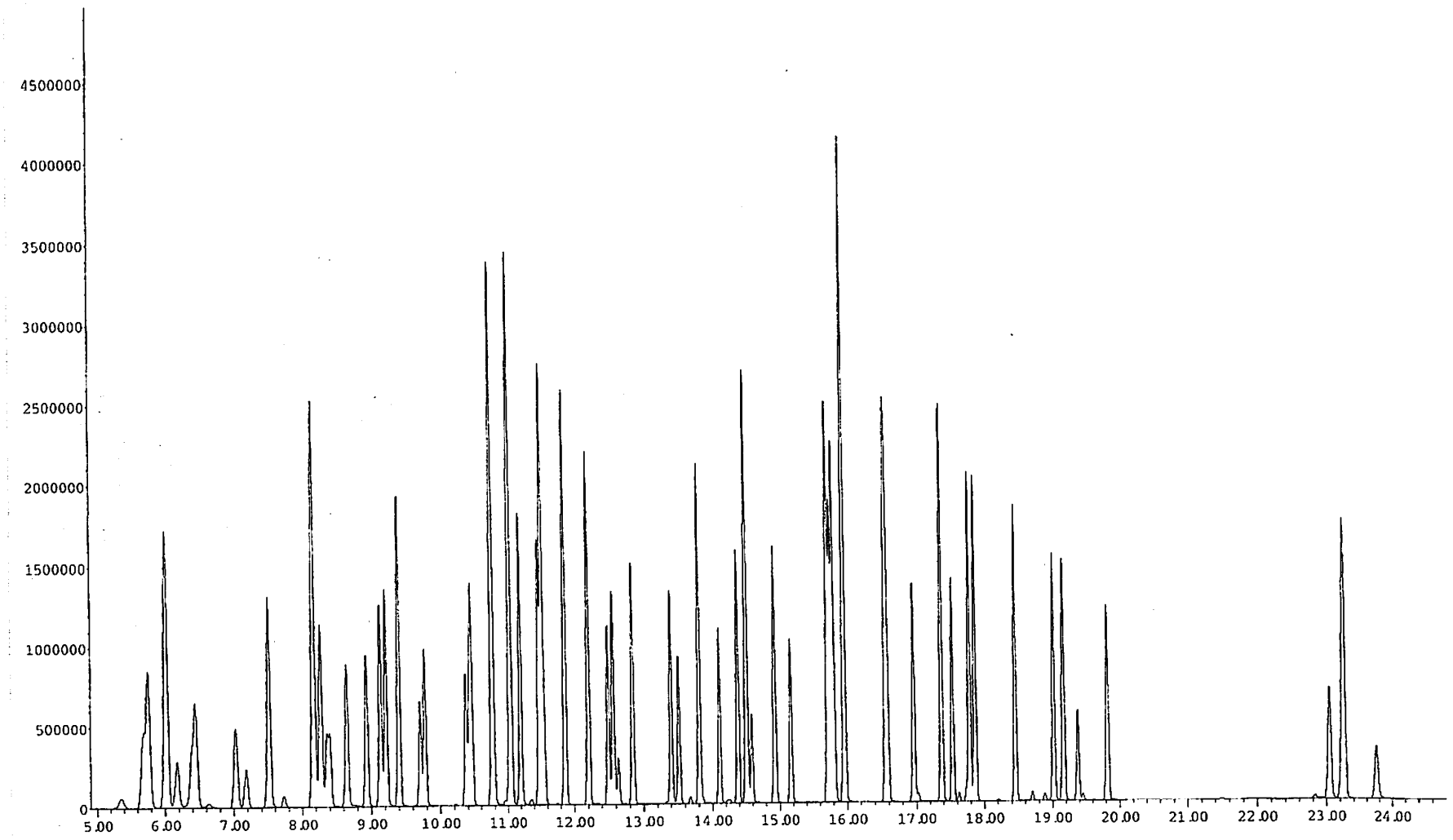
Data File : C:\HPCHEM\1\DATA\031711\03171106.D
Acq On : 17 Mar 2011 12:47 pm
Sample : TO15 L5 48cc voa101910d
Misc : ICAL EPA_TO15
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171106.D



1097 of 1498

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171107.D Vial: 1
Acq On : 17 Mar 2011 1:27 pm Operator: Michael Truchan
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	745538	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2647543	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1875991	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1181628	12.57	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.56%				
Target Compounds							Qvalue
2) Propylene	5.69	41	783608	14.02	ppbv		99
3) Dichlorodifluoromethane	5.76	85	2312397	12.59	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1759629	13.02	ppbv		94
5) Chloromethane	6.18	50	804997	12.72	ppbv		99
6) Vinyl chloride	6.39	62	870873	12.16	ppbv		100
7) 1,3-Butadiene	6.44	39	719827	12.77	ppbv		99
8) Bromomethane	7.02	94	850924	12.97	ppbv		99
9) Chloroethane	7.18	64	488395	12.80	ppbv		99
10) Trichlorofluoromethane	7.51	101	2304984	13.15	ppbv		100
11) Ethanol	7.73	45	164699	13.29	ppbv		100
12) Freon113	8.17	101	1893744	13.45	ppbv		97
13) 1,1-Dichloroethene	8.27	61	1394933	13.51	ppbv		96
14) Acetone	8.36	43	1233515	13.43	ppbv		99
15) Carbon disulfide	8.65	76	2455961	13.34	ppbv	#	100
16) 2-Propanol	8.40	45	984916	14.89	ppbv		99
17) Methylene chloride	8.93	49	1011826	13.48	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	2221183	13.03	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1301427	13.39	ppbv		96
20) n-Hexane	9.40	57	1480696	13.60	ppbv		99
21) 1,1-Dichloroethane	9.77	63	1597017	13.35	ppbv		99
22) Vinyl acetate	9.70	43	1659298	13.57	ppbv		99
23) cis-1,2-Dichloroethene	10.46	96	937425	13.71	ppbv		96
24) 2-Butanone	10.42	43	1303697	13.75	ppbv		96
25) Ethyl acetate	10.37	43	1660670	14.05	ppbv	#	100
26) Tetrahydrofuran	10.76	42	865592	13.93	ppbv		98
27) Chloroform	10.78	83	1717774	13.22	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1754853	13.07	ppbv		99
29) Cyclohexane	11.04	56	1439287	13.06	ppbv		98
30) Carbon tetrachloride	11.19	117	1771810	13.18	ppbv		99
31) Benzene	11.47	78	2366258	12.84	ppbv		99
32) 1,2-Dichloroethane	11.55	62	966268	13.02	ppbv		100
34) Heptane	11.52	43	1680537	13.14	ppbv		98
35) Trichloroethene	12.20	130	1189777	13.18	ppbv		98
36) 1,2-Dichloropropane	12.56	63	864281	13.57	ppbv		100
37) 1,4-Dioxane	12.64	88	368017	14.50	ppbv		99
38) Bromodichloromethane	12.84	83	1651363	13.23	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1300410	13.26	ppbv		99
40) 4-Methyl-2-pentanone	13.51	58	434654	14.92	ppbv		98
41) Toluene	13.80	91	2612567	13.09	ppbv		100
42) trans-1,3-Dichloropropene	14.11	75	1042874	12.85	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	883434	13.59	ppbv		98
44) Tetrachloroethene	14.50	166	1448170	13.09	ppbv		100
45) 2-Hexanone	14.58	43	679260	15.92	ppbv		99
46) Chlorodibromomethane	14.93	129	1503469	13.79	ppbv		100
47) 1,2-Dibromoethane	15.16	107	1270284	13.41	ppbv		99
49) Chlorobenzene	15.76	112	1783730	13.52	ppbv		98
50) Ethylbenzene	15.80	91	2784414	12.77	ppbv		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171107.D Vial: 1
Acq On : 17 Mar 2011 1:27 pm Operator: Michael Truchan
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

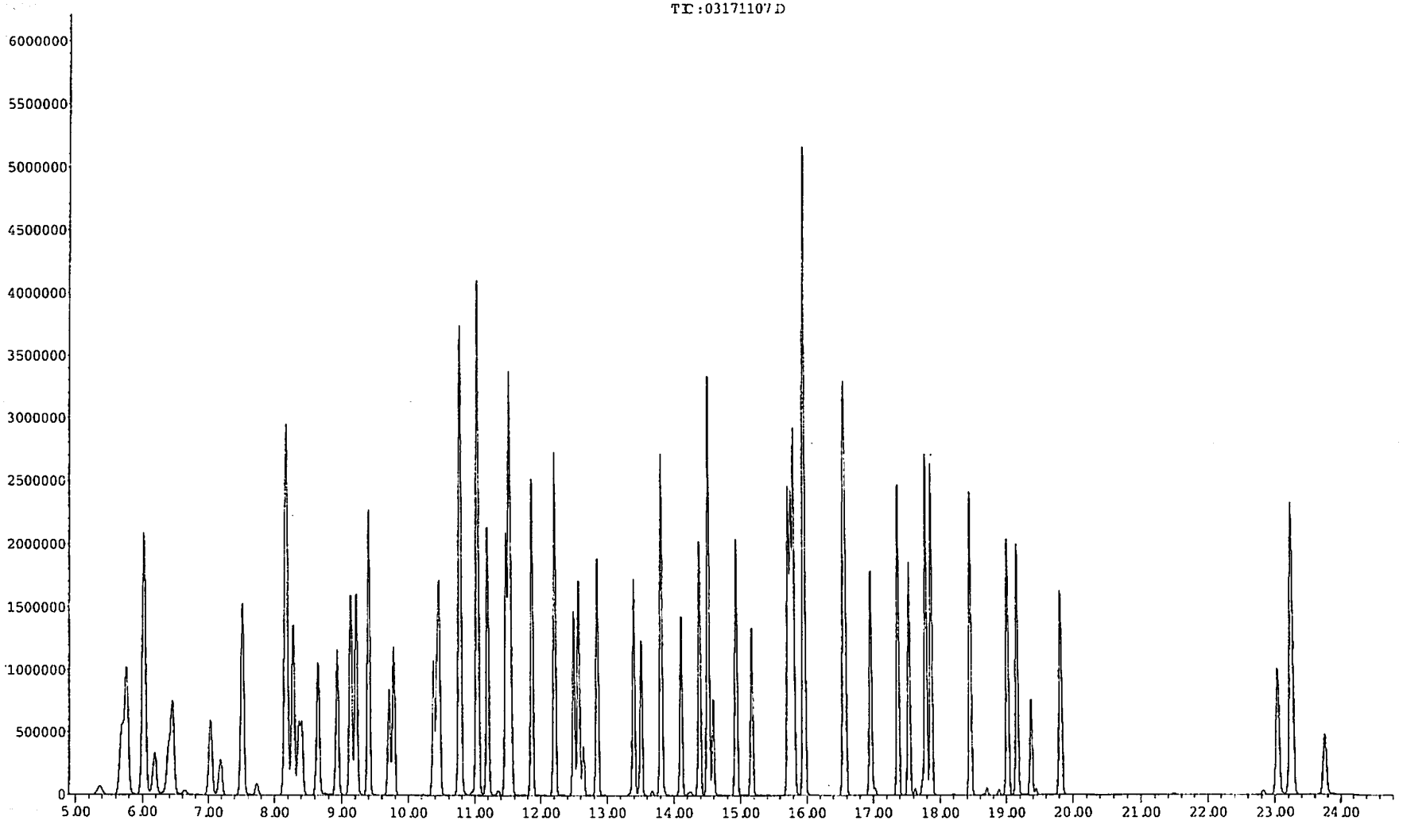
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	4198184	24.86	ppbv	98
52) o-Xylene	16.55	91	2178030	13.24	ppbv	98
53) Styrene	16.57	104	1543759	13.68	ppbv	99
54) Bromoform	16.96	173	1249884	13.21	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	1304060	13.99	ppbv	100
57) 4-Ethyltoluene	17.78	105	2548731	12.97	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	2030827	12.53	ppbv	99
59) 1,2,4-Trimethylbenzene	18.45	105	1926982	13.31	ppbv	99
60) 1,3-Dichlorobenzene	19.01	146	1314771	13.05	ppbv	100
61) 1,4-Dichlorobenzene	19.16	146	1251034	12.99	ppbv	99
62) Benzyl chloride	19.37	91	882939	14.01	ppbv	100
63) 1,2-Dichlorobenzene	19.82	146	1132220	13.01	ppbv	100
64) 1,2,4-Trichlorobenzene	23.04	180	772344	15.57	ppbv	99
65) Hexachlorobutadiene	23.24	225	1162990	13.41	ppbv	99
66) Naphthalene	23.75	128	957818	15.88	ppbv	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171107.D Vial: 1
Acq On : 17 Mar 2011 1:27 pm Operator: Michael Truchan
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171108.D Vial: 1
Acq On : 17 Mar 2011 2:08 pm Operator: Michael Truchan
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	745277	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2670536	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1929374	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1218061	12.60	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.80%				
Target Compounds							Qvalue
2) Propylene	5.68	41	1040350	18.62	ppbv		99
3) Dichlorodifluoromethane	5.76	85	3025455	16.48	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	2320593	17.18	ppbv		95
5) Chloromethane	6.17	50	1045350	16.52	ppbv		100
6) Vinyl chloride	6.38	62	1106267	15.45	ppbv		99
7) 1,3-Butadiene	6.44	39	838930	14.89	ppbv		98
8) Bromomethane	7.03	94	1133992	17.29	ppbv		99
9) Chloroethane	7.17	64	646530	16.95	ppbv		99
10) Trichlorofluoromethane	7.51	101	2996928	17.10	ppbv		99
11) Ethanol	7.73	45	207692	16.77	ppbv		99
12) Freon113	8.17	101	2458277	17.46	ppbv		97
13) 1,1-Dichloroethene	8.27	61	1824582	17.68	ppbv		97
14) Acetone	8.36	43	1530818	16.67	ppbv		99
15) Carbon disulfide	8.64	76	3259620	17.71	ppbv	#	100
16) 2-Propanol	8.40	45	1241724	18.78	ppbv	#	1
17) Methylene chloride	8.93	49	1326116	17.67	ppbv		95
18) tert-Butyl Methyl Ether	9.13	73	2758517	16.19	ppbv		100
19) trans-1,2-Dichloroethene	9.21	61	1716939	17.67	ppbv		96
20) n-Hexane	9.40	57	1908051	17.53	ppbv		99
21) 1,1-Dichloroethane	9.77	63	2074304	17.35	ppbv		100
22) Vinyl acetate	9.70	43	2081846	17.03	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	1212487	17.74	ppbv		96
24) 2-Butanone	10.42	43	1676518	17.69	ppbv		96
25) Ethyl acetate	10.37	43	2067851	17.50	ppbv	#	100
26) Tetrahydrofuran	10.76	42	1081980	17.42	ppbv		98
27) Chloroform	10.78	83	2162470	16.65	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	2191827	16.33	ppbv		99
29) Cyclohexane	11.04	56	1812352	16.45	ppbv		98
30) Carbon tetrachloride	11.19	117	2233933	16.62	ppbv		100
31) Benzene	11.47	78	2960173	16.07	ppbv		99
32) 1,2-Dichloroethane	11.55	62	1200324	16.18	ppbv		99
34) Heptane	11.52	43	2079769	16.13	ppbv		99
35) Trichloroethene	12.20	130	1502109	16.50	ppbv		98
36) 1,2-Dichloropropane	12.56	63	1093097	17.01	ppbv		100
37) 1,4-Dioxane	12.63	88	460601	17.99	ppbv		98
38) Bromodichloromethane	12.84	83	2098653	16.67	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1666182	16.85	ppbv		99
40) 4-Methyl-2-pentanone	13.51	58	550782	18.74	ppbv		98
41) Toluene	13.81	91	3283981	16.32	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	1345051	16.44	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	1143036	17.44	ppbv		99
44) Tetrachloroethene	14.51	166	1833409	16.43	ppbv		100
45) 2-Hexanone	14.58	43	852777	19.81	ppbv		100
46) Chlorodibromomethane	14.92	129	1911769	17.39	ppbv		99
47) 1,2-Dibromoethane	15.17	107	1611925	16.87	ppbv		100
49) Chlorobenzene	15.76	112	2302832	16.98	ppbv		98
50) Ethylbenzene	15.80	91	3531366	15.74	ppbv		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171108.D Vial: 1
Acq On : 17 Mar 2011 2:08 pm Operator: Michael Truchan
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Mar 17 14:47:07 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	5162913	29.73	ppbv	99
52) o-Xylene	16.55	91	2739662	16.20	ppbv	99
53) Styrene	16.58	104	1977591	17.04	ppbv	99
54) Bromoform	16.96	173	1588841	16.32	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	1693709	17.66	ppbv	100
57) 4-Ethyltoluene	17.78	105	3238640	16.02	ppbv	99
58) 1,3,5-Trimethylbenzene	17.86	105	2592369	15.55	ppbv	99
59) 1,2,4-Trimethylbenzene	18.45	105	2485539	16.69	ppbv	100
60) 1,3-Dichlorobenzene	19.01	146	1678648	16.20	ppbv	99
61) 1,4-Dichlorobenzene	19.16	146	1589395	16.05	ppbv	99
62) Benzyl chloride	19.37	91	1132898	17.48	ppbv	100
63) 1,2-Dichlorobenzene	19.82	146	1457725	16.29	ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	974734	19.11	ppbv	98
65) Hexachlorobutadiene	23.25	225	1428542	16.01	ppbv	100
66) Naphthalene	23.75	128	1216273	19.61	ppbv	100

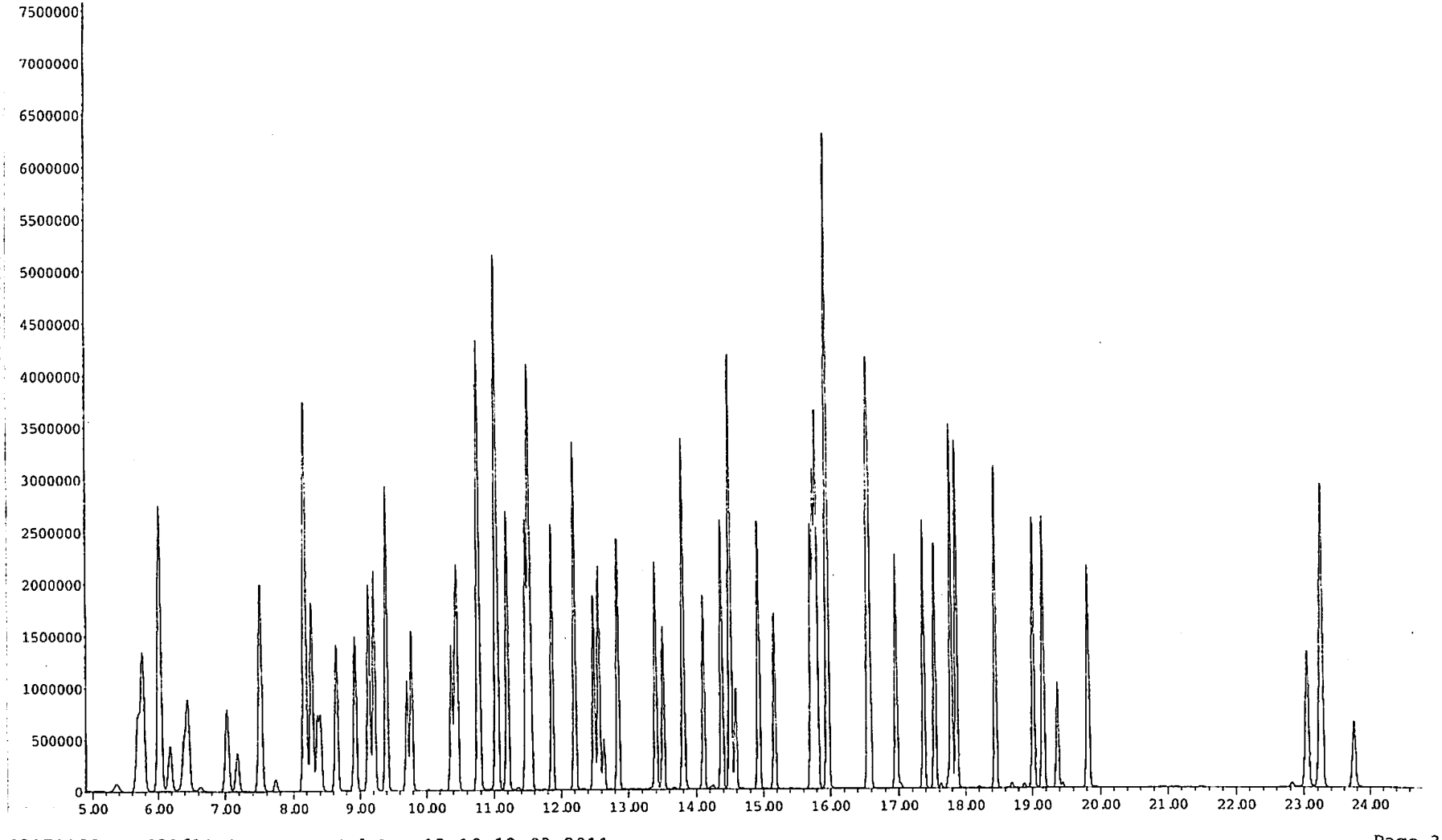
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171108.D Vial: 1
Acq On : 17 Mar 2011 2:08 pm Operator: Michael Truchan
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:02 2011 Quant Results File: 031611V1.RES

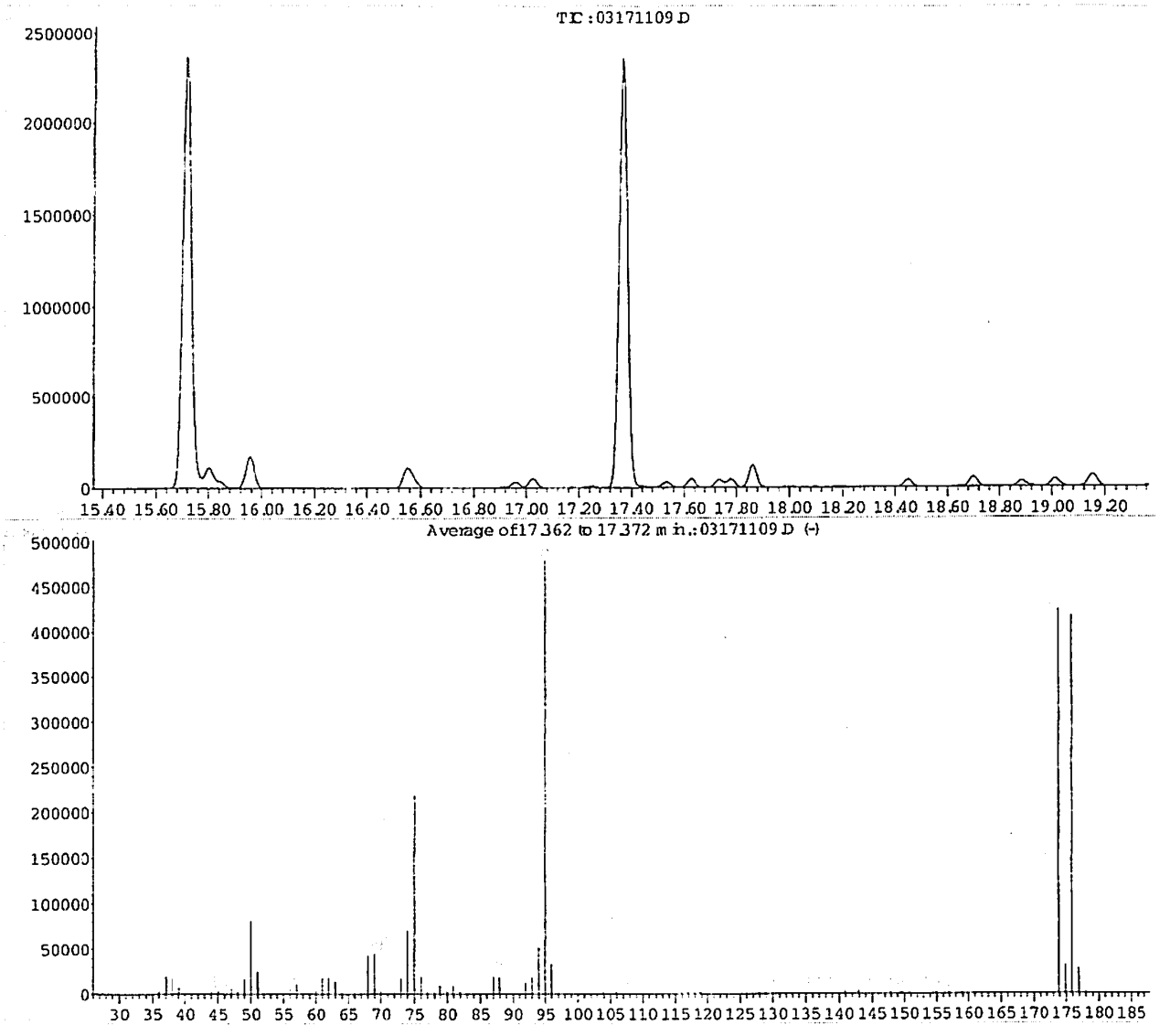
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171108.D



BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\031711\03171109.D Vial: 1
Acq On : 17 Mar 2011 2:49 pm Operator: Michael Truchan
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : ical EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv



Spectrum Information: Average of 17.362 to 17.372 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	80720	PASS
75	95	30	60	45.5	217707	PASS
95	95	100	100	100.0	478080	PASS
96	95	5	9	6.9	33093	PASS
173	174	0.00	2	0.2	848	PASS
174	95	50	120	88.5	422869	PASS
175	174	4	9	7.2	30421	PASS
176	174	93	101	98.3	415787	PASS
177	176	5	9	6.7	27747	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	97	0.00
2	T	Propylene	0.937	1.040	-11.0	115	0.00
3	T	Dichlorodifluoromethane	3.080	3.336	-8.3	112	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.266	2.408	-6.3	109	0.00
5	T	Chloromethane	1.061	1.349	-27.1	132	0.00
6	T	Vinyl chloride	1.201	1.339	-11.5	111	0.00
7	T	1,3-Butadiene	0.945	1.015	-7.4	110	0.00
8	T	Bromomethane	1.100	0.778	29.3	72	0.00
9	T	Chloroethane	0.640	0.566	11.6	91	0.00
10	T	Trichlorofluoromethane	2.939	3.143	-6.9	110	0.00
11	T	Ethanol	0.208	0.295	-41.8#	152#	-0.01
12	T	Freon113	2.361	2.619	-10.9	113	0.00
13	T	1,1-Dichloroethene	1.731	1.675	3.2	99	0.00
14	T	Acetone	1.541	1.614	-4.7	115	0.00
15	T	Carbon disulfide	3.087	3.120	-1.1	104	0.00
16	T	2-Propanol	1.109	1.369	-23.4	129	0.00
17	T	Methylene chloride	1.259	1.286	-2.1	107	0.00
18	T	tert-Butyl Methyl Ether	2.858	3.282	-14.8	127	0.00
19	T	trans-1,2-Dichloroethene	1.630	1.794	-10.1	112	0.00
20	T	n-Hexane	1.825	1.888	-3.5	107	0.00
21	T	1,1-Dichloroethane	2.005	2.378	-18.6	122	0.00
22	T	Vinyl acetate	2.051	2.240	-9.2	118	0.00
23	T	cis-1,2-Dichloroethene	1.146	1.328	-15.9	120	0.00
24	T	2-Butanone	1.589	1.777	-11.8	127	0.00
25	T	Ethyl acetate	1.982	2.122	-7.1	119	0.00
26	T	Tetrahydrofuran	1.042	1.274	-22.3	129	0.00
27	T	Chloroform	2.179	2.435	-11.7	116	0.00
28	T	1,1,1-Trichloroethane	2.251	2.526	-12.2	115	0.00
29	T	Cyclohexane	1.848	2.063	-11.6	115	0.00
30	T	Carbon tetrachloride	2.254	2.630	-16.7	119	0.00
31	T	Benzene	3.090	3.697	-19.6	130	0.00
32	T	1,2-Dichloroethane	1.244	1.449	-16.5	124	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
34	T	Heptane	0.604	0.660	-9.3	114	0.00
35	T	Trichloroethene	0.426	0.706	-65.7#	174#	0.00
36	T	1,2-Dichloropropane	0.301	0.351	-16.6	123	0.00
37	T	1,4-Dioxane	0.120	0.107	10.8	94	0.00
38	T	Bromodichloromethane	0.589	0.691	-17.3	122	0.00
39	T	cis-1,3-Dichloropropene	0.463	0.550	-18.8	125	0.00
40	T	4-Methyl-2-pentanone	0.138	0.190	-37.7#	144	0.00
41	T	Toluene	0.942	1.131	-20.1	131	0.00
42	T	trans-1,3-Dichloropropene	0.383	0.442	-15.4	122	0.00
43	T	1,1,2-Trichloroethane	0.307	0.335	-9.1	116	0.00
44	T	Tetrachloroethene	0.522	0.588	-12.6	118	0.00
45	T	2-Hexanone	0.201	0.299	-48.8#	144	0.00
46	T	Chlorodibromomethane	0.515	0.586	-13.8	119	0.00
47	T	1,2-Dibromoethane	0.447	0.457	-2.2	108	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
49	T	Chlorobenzene	0.879	0.934	-6.3	116	0.00
50	T	Ethylbenzene	1.453	1.675	-15.3	130	0.00
51	T	m,p-Xylene	1.125	1.221	-8.5	120	0.00
52	T	o-Xylene	1.096	1.214	-10.8	124	0.00
53	T	Styrene	0.752	0.863	-14.8	125	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	T	Bromoform	0.631	0.674	-6.8	115	0.00
55	S	4-Bromofluorobenzene	0.627	0.632	-0.8	100	0.00
56	T	1,1,2,2-Tetrachloroethane	0.621	0.281	54.8#	49#	0.00
57	T	4-Ethyltoluene	1.309	1.260	3.7	110	0.00
58	T	1,3,5-Trimethylbenzene	1.080	1.061	1.8	113	0.00
59	T	1,2,4-Trimethylbenzene	0.965	0.912	5.5	105	0.00
60	T	1,3-Dichlorobenzene	0.671	0.680	-1.3	112	0.00
61	T	1,4-Dichlorobenzene	0.642	0.660	-2.8	113	0.00
62	T	Benzyl chloride	0.420	0.236	43.8#	63	0.00
63	T	1,2-Dichlorobenzene	0.580	0.580	0.0	112	0.00
64	T	1,2,4-Trichlorobenzene	0.330	0.264	20.0	81	0.00
65	T	Hexachlorobutadiene	0.578	0.531	8.1	100	0.00
66		Naphthalene	0.402	0.305	24.1	78	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	740828	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2609749	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1877157	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1186430	12.61	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.88%				
Target Compounds							Qvalue
2) Propylene	5.68	41	628991	11.33	ppbv		99
3) Dichlorodifluoromethane	5.75	85	1818921	9.96	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1355601	10.09	ppbv		94
5) Chloromethane	6.17	50	759728	12.08	ppbv		99
6) Vinyl chloride	6.38	62	746105	10.48	ppbv		99
7) 1,3-Butadiene	6.44	39	589632	10.53	ppbv		99
8) Bromomethane	7.02	94	428799	6.58	ppbv		99
9) Chloroethane	7.17	64	308385	8.13	ppbv		99
10) Trichlorofluoromethane	7.51	101	1788252	10.27	ppbv		99
11) Ethanol	7.72	45	161063	13.08	ppbv		99
12) Freon113	8.17	101	1521395	10.87	ppbv		97
13) 1,1-Dichloroethene	8.27	61	982719	9.58	ppbv		96
14) Acetone	8.35	43	956340	10.47	ppbv		98
15) Carbon disulfide	8.64	76	1793537	9.80	ppbv	#	100
16) 2-Propanol	8.40	45	819631	12.47	ppbv		92
17) Methylene chloride	8.92	49	762281	10.22	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	1925753	11.37	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1041755	10.78	ppbv		95
20) n-Hexane	9.39	57	1130391	10.45	ppbv		98
21) 1,1-Dichloroethane	9.77	63	1367078	11.50	ppbv		99
22) Vinyl acetate	9.70	43	1314422	10.81	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	771286	11.35	ppbv		96
24) 2-Butanone	10.42	43	1042845	11.07	ppbv		95
25) Ethyl acetate	10.37	43	1232676	10.49	ppbv	#	100
26) Tetrahydrofuran	10.75	42	755133	12.23	ppbv		97
27) Chloroform	10.77	83	1414203	10.95	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1436952	10.77	ppbv		99
29) Cyclohexane	11.04	56	1198152	10.94	ppbv		97
30) Carbon tetrachloride	11.19	117	1480928	11.09	ppbv		100
31) Benzene	11.47	78	2103399	11.49	ppbv		99
32) 1,2-Dichloroethane	11.55	62	833043	11.30	ppbv		100
34) Heptane	11.52	43	1363412	10.82	ppbv		98
35) Trichloroethene	12.20	130	1415391	15.91	ppbv		98
36) 1,2-Dichloropropane	12.56	63	717990	11.43	ppbv		99
37) 1,4-Dioxane	12.63	88	213483	8.53	ppbv		99
38) Bromodichloromethane	12.84	83	1385711	11.27	ppbv		99
39) cis-1,3-Dichloropropene	13.40	75	1090261	11.28	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	396777	13.81	ppbv		98
41) Toluene	13.80	91	2313389	11.76	ppbv		100
42) trans-1,3-Dichloropropene	14.10	75	840468	10.51	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	685078	10.69	ppbv		98
44) Tetrachloroethene	14.50	166	1179094	10.82	ppbv		100
45) 2-Hexanone	14.58	43	611254	14.53	ppbv		99
46) Chlorodibromomethane	14.93	129	1198638	11.16	ppbv		99
47) 1,2-Dibromoethane	15.16	107	916139	9.81	ppbv		99
49) Chlorobenzene	15.76	112	1388833	10.52	ppbv		95
50) Ethylbenzene	15.80	91	2464669	11.29	ppbv		95

(#) = qualifier out of range (m) = manual integration
03171110.D 031611V1.M Wed Apr 13 10:13:37 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	3520806	20.84	ppbv		97
52)	o-Xylene	16.55	91	1823034	11.08	ppbv		97
53)	Styrene	16.58	104	1269529	11.24	ppbv		99
54)	Bromoform	16.96	173	971458	10.26	ppbv		99
56)	1,1,2,2-Tetrachloroethane	17.53	83	421449	4.52	ppbv		99
57)	4-Ethyltoluene	17.78	105	1854590	9.43	ppbv		98
58)	1,3,5-Trimethylbenzene	17.86	105	1546247	9.53	ppbv	#	56
59)	1,2,4-Trimethylbenzene	18.45	105	1341573	9.26	ppbv		99
60)	1,3-Dichlorobenzene	19.01	146	990743	9.83	ppbv		99
61)	1,4-Dichlorobenzene	19.16	146	951388	9.87	ppbv		99
62)	Benzyl chloride	19.37	91	344163	5.46	ppbv		99
63)	1,2-Dichlorobenzene	19.82	146	844925	9.71	ppbv		100
64)	1,2,4-Trichlorobenzene	23.04	180	360244	7.26	ppbv		98
65)	Hexachlorobutadiene	23.24	225	750165	8.64	ppbv		99
66)	Naphthalene	23.76	128	421240	6.98	ppbv		99

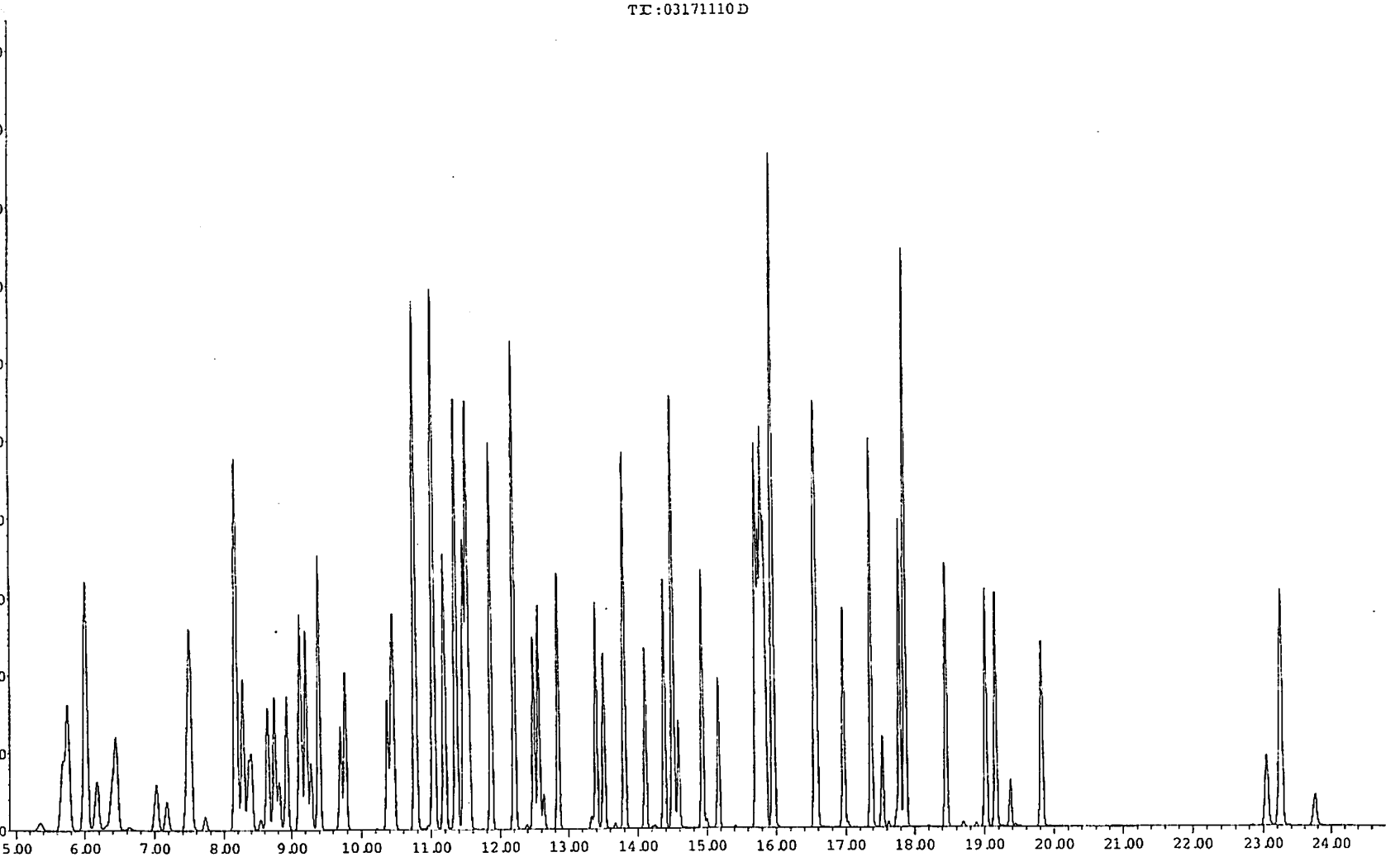
(#) = qualifier out of range (m) = manual integration
03171110.D 031611V1.M Wed Apr 13 10:13:37 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031711\03171110.D Vial: 1
Acq On : 17 Mar 2011 3:29 pm Operator: Michael Truchan
Sample : TO15 CCV 40cc voa010711a Inst : GC/MS Ins
Misc : CCV EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171110.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171112.D Vial: 2
Acq On : 17 Mar 2011 4:59 pm Operator: Michael Truchan
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	756991	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	2740375	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	1898605	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.36	95	1194119	12.55	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.40%				
Target Compounds							Qvalue
2) Propylene	5.68	41	63374	1.12	ppbv		99
3) Dichlorodifluoromethane	5.75	85	186560	1.00	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	140845	1.03	ppbv		94
5) Chloromethane	6.17	50	67590	1.05	ppbv	#	95
6) Vinyl chloride	6.38	62	77555	1.07	ppbv	#	98
7) 1,3-Butadiene	6.44	39	72805	1.27	ppbv		96
8) Bromomethane	7.02	94	67411	1.01	ppbv		98
9) Chloroethane	7.17	64	38234	0.99	ppbv		98
10) Trichlorofluoromethane	7.51	101	187798	1.06	ppbv		98
11) Ethanol	7.73	45	14477	1.15	ppbv		97
12) Freon113	8.17	101	150888	1.06	ppbv		98
13) 1,1-Dichloroethene	8.27	61	113881	1.09	ppbv		94
14) Acetone	8.35	43	125753	1.35	ppbv	#	96
15) Carbon disulfide	8.64	76	197764	1.06	ppbv	#	99
16) 2-Propanol	8.41	45	66864	1.00	ppbv	#	1
17) Methylene chloride	8.92	49	88207	1.16	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	243224	1.41	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	106688	1.08	ppbv		94
20) n-Hexane	9.39	57	139341	1.26	ppbv		96
21) 1,1-Dichloroethane	9.77	63	132281	1.09	ppbv		99
22) Vinyl acetate	9.70	43	159238	1.28	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	75420	1.09	ppbv		95
24) 2-Butanone	10.42	43	118089	1.23	ppbv		95
25) Ethyl acetate	10.37	43	140234	1.17	ppbv	#	99
26) Tetrahydrofuran	10.76	42	72515	1.15	ppbv		95
27) Chloroform	10.77	83	150564	1.14	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	147143	1.08	ppbv		99
29) Cyclohexane	11.04	56	136665	1.22	ppbv		95
30) Carbon tetrachloride	11.19	117	145305	1.06	ppbv		98
31) Benzene	11.47	78	243458	1.30	ppbv		99
32) 1,2-Dichloroethane	11.55	62	90968	1.21	ppbv		98
34) Heptane	11.52	43	166881	1.26	ppbv		94
35) Trichloroethene	12.20	130	101153	1.08	ppbv		98
36) 1,2-Dichloropropane	12.56	63	77353	1.17	ppbv		99
37) 1,4-Dioxane	12.63	88	31073	1.18	ppbv		99
38) Bromodichloromethane	12.84	83	142563	1.10	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	111511	1.10	ppbv		97
40) 4-Methyl-2-pentanone	13.50	58	29866	0.99	ppbv		99
41) Toluene	13.80	91	280476	1.36	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	90572	1.08	ppbv		97
43) 1,1,2-Trichloroethane	14.37	97	78347	1.16	ppbv		98
44) Tetrachloroethene	14.50	166	130739	1.14	ppbv		98
45) 2-Hexanone	14.59	43	47092	1.07	ppbv		94
46) Chlorodibromomethane	14.93	129	125724	1.11	ppbv		99
47) 1,2-Dibromoethane	15.16	107	114668	1.17	ppbv		99
49) Chlorobenzene	15.76	112	162330	1.22	ppbv	#	87
50) Ethylbenzene	15.80	91	306034	1.39	ppbv		93

(#) = qualifier out of range (m) = manual integration
03171112.D 031611V1.M Wed Apr 13 10:13:46 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031711\03171112.D Vial: 2
Acq On : 17 Mar 2011 4:59 pm Operator: Michael Truchan
Sample : TO15 RLVS 20cc voa092310d Inst : GC/MS Ins
Misc : RLVS EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011 Quant Results File: 031611V1.RES

Quant Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 031611V1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51) m,p-Xylene	15.95	91	449208	2.63	ppbv		94
52) o-Xylene	16.55	91	232142	1.39	ppbv		96
53) Styrene	16.58	104	134953	1.18	ppbv		96
54) Bromoform	16.96	173	109925	1.15	ppbv		99
56) 1,1,2,2-Tetrachloroethane	17.53	83	114321	1.21	ppbv		98
57) 4-Ethyltoluene	17.78	105	281659	1.42	ppbv		99
58) 1,3,5-Trimethylbenzene	17.86	105	235426	1.44	ppbv		97
59) 1,2,4-Trimethylbenzene	18.45	105	187539	1.28	ppbv		99
60) 1,3-Dichlorobenzene	19.01	146	137531	1.35	ppbv		96
61) 1,4-Dichlorobenzene	19.16	146	128167	1.31	ppbv		97
62) Benzyl chloride	19.37	91	82877	1.30	ppbv		99
63) 1,2-Dichlorobenzene	19.82	146	115731	1.31	ppbv		96
64) 1,2,4-Trichlorobenzene	23.05	180	44446	0.89	ppbv		96
65) Hexachlorobutadiene	23.24	225	103871	1.18	ppbv		99
66) Naphthalene	23.76	128	64942	1.06	ppbv	#	95

(#) = qualifier out of range (m) = manual integration
03171112.D 031611V1.M Wed Apr 13 10:13:46 2011 Page 2

Quantitation Report

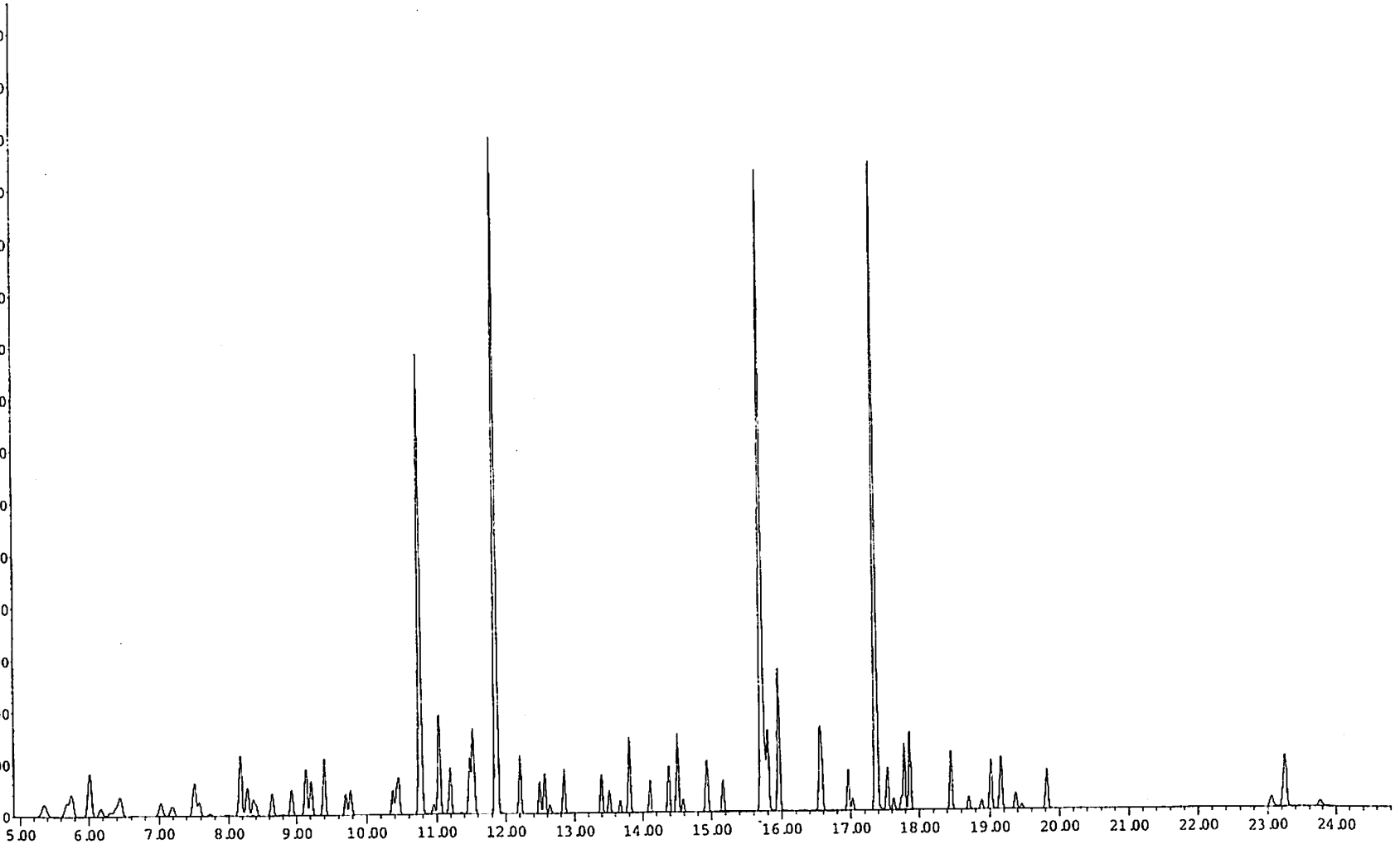
Data File : C:\HPCHEM\1\DATA\031711\03171112.D
Acq On : 17 Mar 2011 4:59 pm
Sample : TO15 RLVS 20cc voa092310d
Misc : RLVS EPA_TO15
MS Integration Params: CLME.P
Quant Time: Mar 22 11:05 2011

Vial: 2
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 031611V1.RES

Method : C:\HPCHEM\1\METHODS\031611V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration

TIC:03171112.D

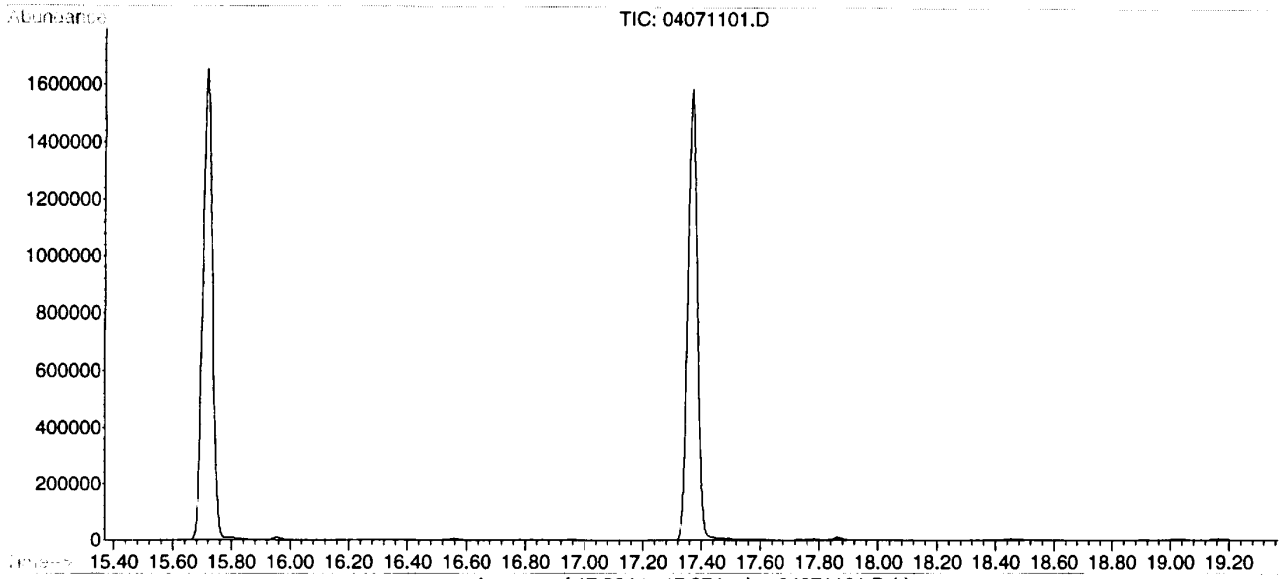


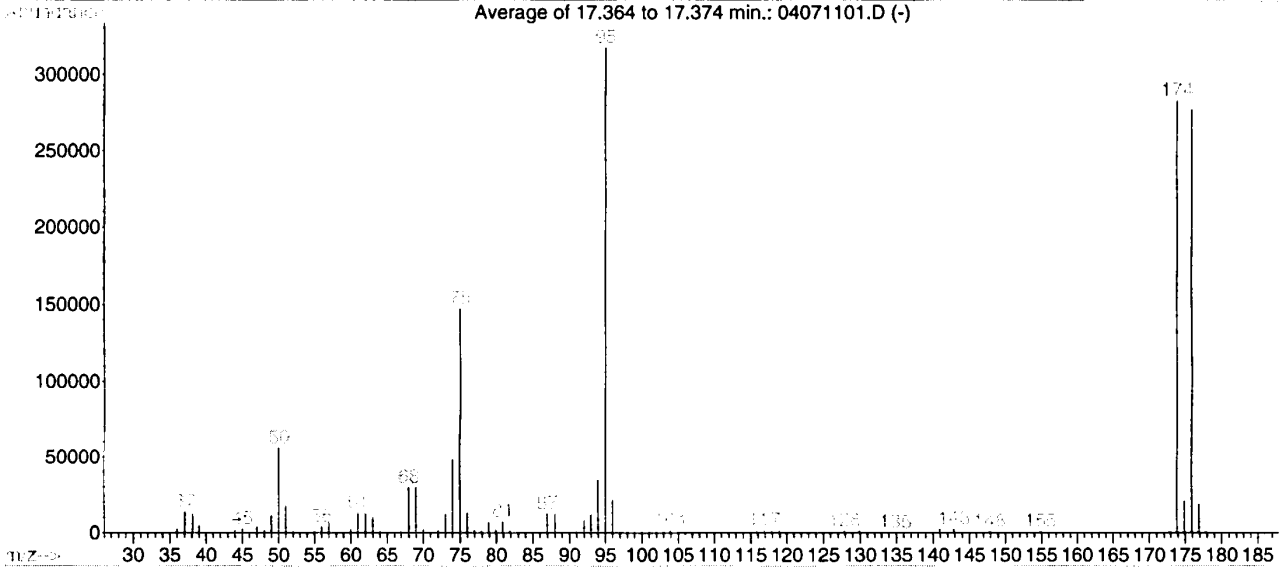
1112 of 1498

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040711\04071101.D
Acq On : 7 Apr 2011 11:47 am
Sample : BFB 50cc voa020211c
Misc : TUNE BFB_TUNE
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv

Vial: 1
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00





Spectrum Information: Average of 17.364 to 17.374 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	55885	PASS
75	95	30	60	46.4	147328	PASS
95	95	100	100	100.0	317419	PASS
96	95	5	9	6.7	21376	PASS
173	174	0.00	2	0.2	673	PASS
174	95	50	120	89.1	282944	PASS
175	174	4	9	7.3	20787	PASS
176	174	93	101	98.0	277163	PASS
177	176	5	9	6.8	18773	PASS

04071101.D 040711V1.M Thu Apr 14 15:48:59 2011

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

Calibration Files
2 =04071102.D 3 =04071103.D 4 =04071104.D
5 =04071105.D 6 =04071106.D 7 =04071107.D

		Compound	2	3	4	5	6	7	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene	1.079	1.150	0.967	0.921	0.914	0.842	0.966	10.35
3)	T	Dichlorodifluoromet	3.597	3.811	3.178	3.044	2.995	2.740	3.139	12.11
4)	T	1,2-Dichloro-1,2,2,	2.635	2.754	2.301	2.197	2.172	1.983	2.263	13.11
5)	T	Chloromethane	1.421	1.407	1.155	1.096	1.061	0.962	1.136	16.22
6)	T	Vinyl chloride	1.536	1.580	1.288	1.208	1.161	1.038	1.239	17.52
7)	T	1,3-Butadiene	1.165	1.155	0.967	0.923	0.855	0.745	0.911	19.44
8)	T	Bromomethane	1.308	1.369	1.152	1.092	1.076	0.987	1.139	11.71
9)	T	Chloroethane	0.741	0.787	0.668	0.640	0.632	0.575	0.659	11.03
10)	T	Trichlorofluorometh	3.510	3.605	3.060	2.908	2.860	2.546	2.945	14.88
11)	T	Ethanol	0.257	0.297	0.167	0.175	0.186	0.172	0.211	22.01
12)	T	Freon113	2.784	2.845	2.470	2.345	2.323	2.008	2.344	15.29
13)	T	1,1-Dichloroethene	2.060	2.144	1.792	1.705	1.682	1.483	1.739	14.68
14)	T	Acetone	1.705	1.925	1.239	1.264	1.322	1.169	1.424	18.50
15)	T	Carbon disulfide	3.711	3.772	3.191	3.047	2.974	2.681	3.103	14.22
16)	T	2-Propanol	1.126	1.439	0.928	0.968	1.031	0.963	1.095	15.34
17)	T	Methylene chloride	1.554	1.547	1.278	1.228	1.210	1.054	1.266	15.20
18)	T	tert-Butyl Methyl E	2.874	3.467	2.291	2.314	2.417	2.113	2.545	17.60
19)	T	trans-1,2-Dichloroe	1.902	1.998	1.662	1.607	1.606	1.396	1.639	13.47
20)	T	n-Hexane	2.048	2.157	1.748	1.716	1.721	1.505	1.760	13.57
21)	T	1,1-Dichloroethane	2.345	2.393	1.914	1.889	1.891	1.673	1.963	13.85
22)	T	Vinyl acetate	1.890	2.444	1.663	1.683	1.765	1.553	1.832	15.35
23)	T	cis-1,2-Dichloroeth	1.300	1.371	1.095	1.065	1.098	0.978	1.130	12.38
24)	T	2-Butanone	1.639	1.992	1.306	1.357	1.442	1.263	1.507	15.86
25)	T	Ethyl acetate	1.717	2.450	1.700	1.728	1.838	1.600	1.865	15.07
26)	T	Tetrahydrofuran	1.068	1.351	0.920	0.938	0.977	0.867	1.010	15.42
27)	T	Chloroform	2.583	2.776	2.128	2.047	2.055	1.806	2.137	17.19
28)	T	1,1,1-Trichloroetha	2.623	2.851	2.217	2.146	2.161	1.873	2.203	17.10
29)	T	Cyclohexane	2.083	2.211	1.806	1.736	1.754	1.509	1.764	15.91
30)	T	Carbon tetrachlorid	2.634	2.792	2.178	2.113	2.146	1.886	2.197	16.17
31)	T	Benzene	3.339	3.611	2.607	2.607	2.682	2.370	2.805	16.02
32)	T	1,2-Dichloroethane	1.420	1.593	1.136	1.132	1.148	1.004	1.201	17.21
33)	I	1,4-Difluorobenzene	----------ISTD----------							
34)	T	Heptane	0.634	0.765	0.580	0.558	0.564	0.498	0.570	17.93
35)	T	Trichloroethene	0.466	0.525	0.399	0.386	0.399	0.360	0.407	15.52
36)	T	1,2-Dichloropropane	0.318	0.377	0.268	0.266	0.281	0.252	0.290	14.95
37)	T	1,4-Dioxane	0.139	0.166	0.105	0.110	0.117	0.109	0.125	16.58
38)	T	Bromodichloromethan	0.627	0.748	0.555	0.546	0.563	0.504	0.574	14.89
39)	T	cis-1,3-Dichloropro	0.457	0.582	0.421	0.417	0.436	0.396	0.449	13.88
40)	T	4-Methyl-2-pentanon	0.117	0.187	0.116	0.120	0.131	0.121	0.137	18.72
41)	T	Toluene	0.970	1.155	0.819	0.810	0.844	0.745	0.864	16.83
42)	T	trans-1,3-Dichlorop	0.363	0.485	0.351	0.349	0.367	0.332	0.375	13.65
43)	T	1,1,2-Trichloroetha	0.319	0.393	0.280	0.277	0.293	0.263	0.302	14.49
44)	T	Tetrachloroethene	0.588	0.676	0.506	0.493	0.486	0.442	0.504	18.76
45)	T	2-Hexanone	0.211	0.329	0.197	0.198	0.212	0.198	0.227	19.90
46)	T	Chlorodibromomethan	0.535	0.655	0.478	0.473	0.497	0.448	0.501	14.90
47)	T	1,2-Dibromoethane	0.475	0.570	0.411	0.408	0.424	0.384	0.437	14.85
48)	I	Chlorobenzene-d5	----------ISTD----------							
49)	T	Chlorobenzene	0.945	1.106	0.787	0.777	0.808	0.723	0.831	16.78
50)	T	Ethylbenzene	1.513	1.780	1.264	1.244	1.282	1.124	1.304	19.08
51)	T	m,p-Xylene	1.187	1.436	1.016	0.993	0.994	0.852	0.997	24.16
52)	T	o-Xylene	1.133	1.352	0.971	0.956	0.991	0.874	1.001	17.89
53)	T	Styrene	0.790	0.975	0.699	0.692	0.732	0.653	0.733	16.09
54)	T	Bromoform	0.693	0.821	0.591	0.575	0.597	0.530	0.606	18.31
55)	S	4-Bromofluorobenzen	0.627	0.626	0.628	0.624	0.628	0.630	0.628	0.37

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration

Calibration Files
2 =04071102.D 3 =04071103.D 4 =04071104.D
5 =04071105.D 6 =04071106.D 7 =04071107.D

		Compound	2	3	4	5	6	7	Avg	%RSD
56)	T	1,1,2,2-Tetrachloro	0.623	0.801	0.580	0.575	0.599	0.540	0.611	14.19
57)	T	4-Ethyltoluene	1.396	1.670	1.185	1.164	1.188	1.050	1.226	18.25
58)	T	1,3,5-Trimethylbenz	1.188	1.355	0.971	0.947	0.965	0.864	1.006	18.35
59)	T	1,2,4-Trimethylbenz	1.057	1.268	0.912	0.892	0.928	0.825	0.954	16.11
60)	T	1,3-Dichlorobenzene	0.766	0.900	0.636	0.621	0.633	0.566	0.667	17.40
61)	T	1,4-Dichlorobenzene	0.727	0.875	0.618	0.600	0.617	0.550	0.645	17.41
62)	T	Benzyl chloride	0.439	0.523	0.361	0.366	0.387	0.356	0.411	14.13
63)	T	1,2-Dichlorobenzene	0.651	0.776	0.547	0.533	0.544	0.489	0.580	16.37
64)	T	1,2,4-Trichlorobenz	0.390	0.483	0.350	0.354	0.378	0.356	0.405	13.68
65)	T	Hexachlorobutadiene	0.634	0.723	0.498	0.493	0.524	0.475	0.548	16.59
66)		Naphthalene	0.518	0.587	0.427	0.427	0.466	0.442	0.511	15.90

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration
Total Cpnds : 66

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Bromochloromethane	130	10.76	1.000	A	2	A	B
2	T	Propylene	41	5.68	0.528	A	2	A	B
3	T	Dichlorodifluoromethane	85	5.75	0.534	A	3	A	B
4	T	1,2-Dichloro-1,2,2,2-tetrafluo	135	6.01	0.559	A	2	A	B
5	T	Chloromethane	50	6.17	0.573	A	3	A	B
6	T	Vinyl chloride	62	6.38	0.593	A	2	A	B
7	T	1,3-Butadiene	39	6.44	0.598	A	2	A	B
8	T	Bromomethane	94	7.02	0.653	A	3	A	B
9	T	Chloroethane	64	7.17	0.666	A	3	A	B
10	T	Trichlorofluoromethane	101	7.50	0.697	A	3	A	B
11	T	Ethanol	45	7.73	0.718	A	2	A	B
12	T	Freon113	101	8.16	0.758	A	2	A	B
13	T	1,1-Dichloroethene	61	8.27	0.768	A	2	A	B
14	T	Acetone	43	8.36	0.776	A	2	A	B
15	T	Carbon disulfide	76	8.64	0.803	A	3	A	B
16	T	2-Propanol	45	8.40	0.781	A	2	A	B
17	T	Methylene chloride	49	8.93	0.829	A	2	A	B
18	T	tert-Butyl Methyl Ether	73	9.13	0.848	A	2	A	B
19	T	trans-1,2-Dichloroethene	61	9.21	0.856	A	2	A	B
20	T	n-Hexane	57	9.39	0.873	A	3	A	B
21	T	1,1-Dichloroethane	63	9.77	0.908	A	3	A	B
22	T	Vinyl acetate	43	9.70	0.901	A	2	A	B
23	T	cis-1,2-Dichloroethene	96	10.45	0.971	A	3	A	B
24	T	2-Butanone	43	10.42	0.968	A	2	A	B
25	T	Ethyl acetate	43	10.37	0.963	A	3	A	B
26	T	Tetrahydrofuran	42	10.76	1.000	A	2	A	B
27	T	Chloroform	83	10.77	1.001	A	2	A	B
28	T	1,1,1-Trichloroethane	97	11.03	1.025	A	3	A	B
29	T	Cyclohexane	56	11.03	1.025	A	2	A	B
30	T	Carbon tetrachloride	117	11.19	1.040	A	3	A	B
31	T	Benzene	78	11.47	1.066	A	3	A	B
32	T	1,2-Dichloroethane	62	11.55	1.073	A	3	A	B
33	I	1,4-Difluorobenzene	114	11.86	1.000	A	2	A	B
34	T	Heptane	43	11.52	0.971	A	3	A	B
35	T	Trichloroethene	130	12.20	1.029	A	3	A	B
36	T	1,2-Dichloropropane	63	12.56	1.059	A	3	A	B
37	T	1,4-Dioxane	88	12.63	1.065	A	2	A	B
38	T	Bromodichloromethane	83	12.84	1.082	A	2	A	B
39	T	cis-1,3-Dichloropropene	75	13.39	1.129	A	2	A	B
40	T	4-Methyl-2-pentanone	58	13.50	1.138	A	3	A	B
41	T	Toluene	91	13.80	1.164	A	2	A	B
42	T	trans-1,3-Dichloropropene	75	14.10	1.189	A	3	A	B
43	T	1,1,2-Trichloroethane	97	14.38	1.212	A	3	A	B
44	T	Tetrachloroethene	166	14.50	1.223	A	3	A	B
45	T	2-Hexanone	43	14.58	1.229	A	2	A	B
46	T	Chlorodibromomethane	129	14.93	1.258	A	2	A	B
47	T	1,2-Dibromoethane	107	15.16	1.278	A	2	A	B
48	I	Chlorobenzene-d5	117	15.72	1.000	A	2	A	B
49	T	Chlorobenzene	112	15.76	1.003	A	3	A	B
50	T	Ethylbenzene	91	15.80	1.005	A	2	A	B
51	T	m,p-Xylene	91	15.96	1.015	A	2	A	B
52	T	o-Xylene	91	16.55	1.053	A	2	A	B
53	T	Styrene	104	16.57	1.055	A	3	A	B
54	T	Bromoform	173	16.96	1.079	A	3	A	B
55	S	4-Bromofluorobenzene	95	17.37	1.105	A	2	A	B
56	T	1,1,2,2-Tetrachloroethane	83	17.53	1.115	A	2	A	B
57	T	4-Ethyltoluene	105	17.78	1.131	A	1	A	B
58	T	1,3,5-Trimethylbenzene	105	17.86	1.136	A	2	A	B
59	T	1,2,4-Trimethylbenzene	105	18.45	1.174	A	2	A	B
60	T	1,3-Dichlorobenzene	146	19.01	1.210	A	3	A	B
61	T	1,4-Dichlorobenzene	146	19.16	1.219	A	3	A	B
62	T	Benzyl chloride	91	19.37	1.232	A	2	A	B
63	T	1,2-Dichlorobenzene	146	19.82	1.261	A	3	A	B
64	T	1,2,4-Trichlorobenzene	180	23.04	1.466	A	3	A	B
65	T	Hexachlorobutadiene	225	23.24	1.479	A	2	A	B

66	Naphthalene	128	23.75	1.511	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

040711V1.M Thu Apr 14 15:51:32 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071102.D Vial: 2
Acq On : 7 Apr 2011 2:20 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L2 40cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 14:45 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	964751	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3525312	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	2518285	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1578491	12.51	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.08%				
Target Compounds							Qvalue
2) Propylene	5.69	41	84948	1.17	ppbv		99
3) Dichlorodifluoromethane	5.75	85	255404	1.07	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	193206	1.10	ppbv		94
5) Chloromethane	6.17	50	104177	1.27	ppbv		97
6) Vinyl chloride	6.38	62	111456	1.20	ppbv		100
7) 1,3-Butadiene	6.44	39	88135	1.21	ppbv		97
8) Bromomethane	7.02	94	93879	1.11	ppbv	#	98
9) Chloroethane	7.17	64	52598	1.07	ppbv		98
10) Trichlorofluoromethane	7.50	101	260052	1.15	ppbv		98
11) Ethanol	7.73	45	18245	1.14	ppbv	#	92
12) Freon113	8.16	101	210596	1.16	ppbv		98
13) 1,1-Dichloroethene	8.26	61	157398	1.18	ppbv		95
14) Acetone	8.36	43	131628	1.11	ppbv	#	94
15) Carbon disulfide	8.64	76	277791	1.17	ppbv	#	99
16) 2-Propanol	8.41	45	87807	1.03	ppbv	#	1
17) Methylene chloride	8.93	49	119915	1.23	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	219611	1.00	ppbv		98
19) trans-1,2-Dichloroethene	9.21	61	143883	1.14	ppbv		96
20) n-Hexane	9.39	57	159674	1.13	ppbv		94
21) 1,1-Dichloroethane	9.77	63	175587	1.13	ppbv		98
22) Vinyl acetate	9.70	43	144397	0.91	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	98306	1.11	ppbv		94
24) 2-Butanone	10.42	43	125236	1.02	ppbv		93
25) Ethyl acetate	10.37	43	129835	0.85	ppbv	#	99
26) Tetrahydrofuran	10.76	42	82451	1.03	ppbv		94
27) Chloroform	10.77	83	195357	1.16	ppbv		97
28) 1,1,1-Trichloroethane	11.03	97	194329	1.12	ppbv		98
29) Cyclohexane	11.04	56	157548	1.10	ppbv		94
30) Carbon tetrachloride	11.19	117	193134	1.11	ppbv		99
31) Benzene	11.47	78	247391	1.04	ppbv		99
32) 1,2-Dichloroethane	11.55	62	106307	1.11	ppbv		99
34) Heptane	11.52	43	177091	1.04	ppbv		95
35) Trichloroethene	12.20	130	126266	1.05	ppbv		98
36) 1,2-Dichloropropane	12.55	63	87977	1.04	ppbv		98
37) 1,4-Dioxane	12.63	88	37532	1.11	ppbv		99
38) Bromodichloromethane	12.84	83	169635	1.02	ppbv		98
39) cis-1,3-Dichloropropene	13.39	75	122534	0.94	ppbv		99
40) 4-Methyl-2-pentanone	13.50	58	33077	0.85	ppbv		97
41) Toluene	13.80	91	267959	1.01	ppbv		98
42) trans-1,3-Dichloropropene	14.10	75	93273	0.86	ppbv		100
43) 1,1,2-Trichloroethane	14.38	97	88230	1.02	ppbv		99
44) Tetrachloroethene	14.50	166	159192	1.08	ppbv		99
45) 2-Hexanone	14.58	43	58233	1.02	ppbv		98
46) Chlorodibromomethane	14.92	129	147827	1.02	ppbv		100
47) 1,2-Dibromoethane	15.16	107	128666	1.02	ppbv		98
49) Chlorobenzene	15.76	112	188379	1.06	ppbv	#	76
50) Ethylbenzene	15.80	91	298713	1.02	ppbv		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071102.D Vial: 2
Acq On : 7 Apr 2011 2:20 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L2 40cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 14:45 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

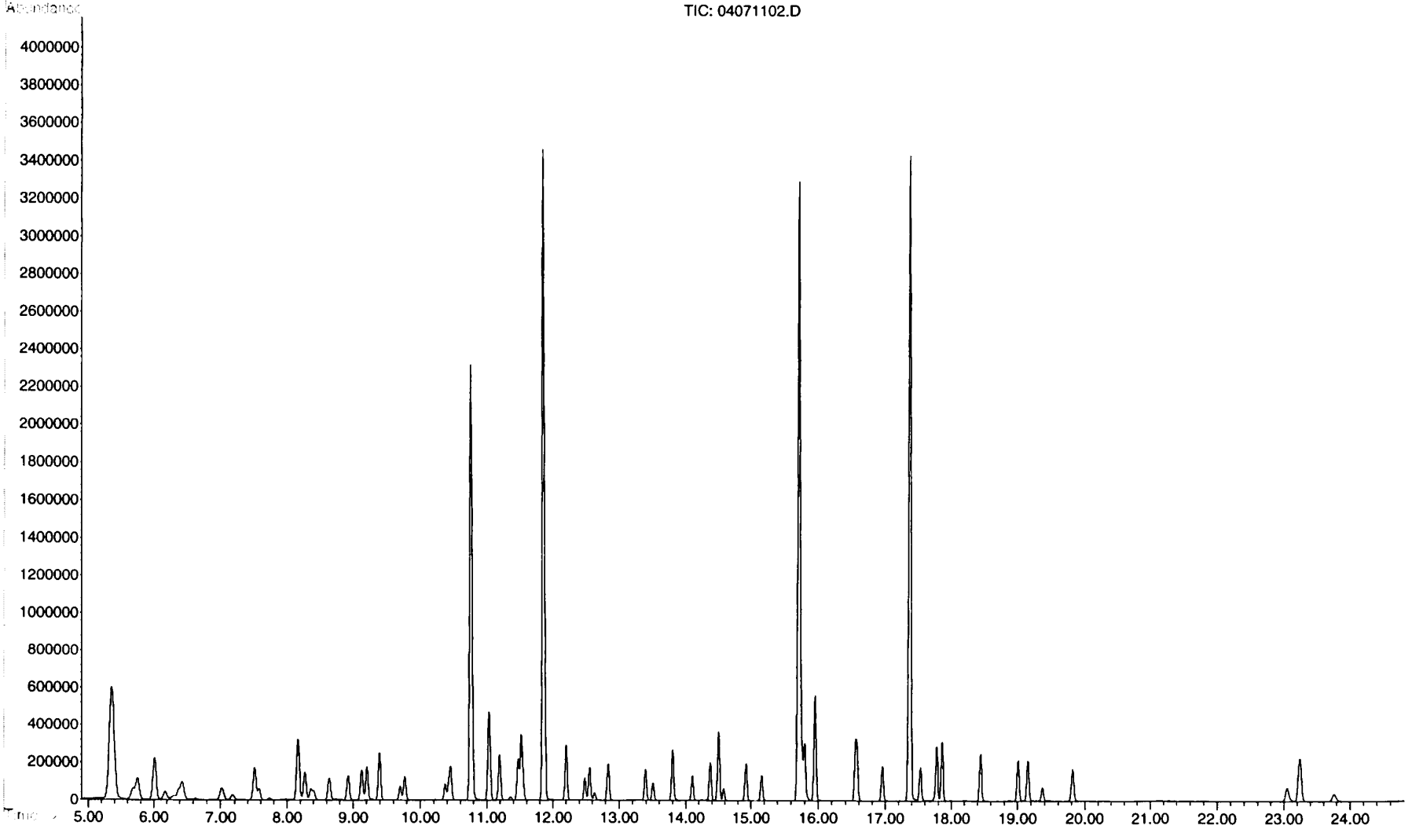
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.95	91	459154	2.03	ppbv	94
52) o-Xylene	16.55	91	228292	1.03	ppbv	95
53) Styrene	16.58	104	155889	1.03	ppbv	99
54) Bromoform	16.96	173	133972	1.05	ppbv	98
56) 1,1,2,2-Tetrachloroethane	17.53	83	125513	1.00	ppbv	99
57) 4-Ethyltoluene	17.78	105	275682	1.04	ppbv	97
58) 1,3,5-Trimethylbenzene	17.86	105	232071	1.07	ppbv	94
59) 1,2,4-Trimethylbenzene	18.44	105	208630	1.07	ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	149602	1.11	ppbv	97
61) 1,4-Dichlorobenzene	19.16	146	140557	1.09	ppbv	99
62) Benzyl chloride	19.37	91	85856	1.01	ppbv	99
63) 1,2-Dichlorobenzene	19.81	146	127309	1.09	ppbv	97
64) 1,2,4-Trichlorobenzene	23.05	180	71438	1.07	ppbv	97
65) Hexachlorobutadiene	23.25	225	120084	1.03	ppbv	98
66) Naphthalene	23.76	128	95985	1.19	ppbv	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071102.D Vial: 2
Acq On : 7 Apr 2011 2:20 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L2 40cc voa092310d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 14:45 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071103.D Vial: 3
Acq On : 7 Apr 2011 3:01 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 15:26 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	941686	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3306071	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	2347524	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1468899	12.48	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 99.84%				
Target Compounds							Qvalue
2) Propylene	5.68	41	441713	6.26	ppbv		99
3) Dichlorodifluoromethane	5.76	85	1320696	5.69	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	985348	5.77	ppbv		95
5) Chloromethane	6.17	50	503586	6.30	ppbv		100
6) Vinyl chloride	6.38	62	559338	6.18	ppbv		99
7) 1,3-Butadiene	6.44	39	426273	5.99	ppbv		99
8) Bromomethane	7.02	94	479695	5.79	ppbv		99
9) Chloroethane	7.17	64	272693	5.66	ppbv		98
10) Trichlorofluoromethane	7.51	101	1303695	5.89	ppbv		99
11) Ethanol	7.73	45	102796	6.57	ppbv		100
12) Freon113	8.16	101	1050110	5.90	ppbv		96
13) 1,1-Dichloroethene	8.27	61	799523	6.13	ppbv		95
14) Acetone	8.35	43	725146	6.25	ppbv		98
15) Carbon disulfide	8.64	76	1378123	5.93	ppbv	#	100
16) 2-Propanol	8.40	45	547364	6.55	ppbv	#	1
17) Methylene chloride	8.93	49	582748	6.14	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	1292753	6.00	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	737367	6.01	ppbv		94
20) n-Hexane	9.40	57	820595	5.97	ppbv		96
21) 1,1-Dichloroethane	9.77	63	874520	5.79	ppbv		99
22) Vinyl acetate	9.70	43	911275	5.90	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	506074	5.86	ppbv		95
24) 2-Butanone	10.42	43	742995	6.21	ppbv		94
25) Ethyl acetate	10.37	43	904247	6.06	ppbv	#	99
26) Tetrahydrofuran	10.76	42	508945	6.49	ppbv		95
27) Chloroform	10.77	83	1024896	6.24	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1031064	6.08	ppbv		98
29) Cyclohexane	11.03	56	816147	5.86	ppbv		95
30) Carbon tetrachloride	11.19	117	999039	5.88	ppbv		99
31) Benzene	11.47	78	1305764	5.61	ppbv		98
32) 1,2-Dichloroethane	11.55	62	582162	6.21	ppbv		99
34) Heptane	11.52	43	1002083	6.28	ppbv		95
35) Trichloroethene	12.20	130	666182	5.91	ppbv		97
36) 1,2-Dichloropropane	12.56	63	489207	6.15	ppbv		99
37) 1,4-Dioxane	12.63	88	210513	6.64	ppbv		98
38) Bromodichloromethane	12.84	83	949634	6.09	ppbv		98
39) cis-1,3-Dichloropropene	13.40	75	731639	5.98	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	247046	6.79	ppbv		98
41) Toluene	13.80	91	1496893	6.01	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	584038	5.76	ppbv		98
43) 1,1,2-Trichloroethane	14.37	97	509421	6.28	ppbv		99
44) Tetrachloroethene	14.51	166	858734	6.22	ppbv		99
45) 2-Hexanone	14.58	43	425856	7.99	ppbv		97
46) Chlorodibromomethane	14.92	129	849289	6.24	ppbv		100
47) 1,2-Dibromoethane	15.16	107	723877	6.12	ppbv		99
49) Chlorobenzene	15.76	112	1027878	6.23	ppbv	#	94
50) Ethylbenzene	15.80	91	1637806	6.00	ppbv		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071103.D Vial: 3
Acq On : 7 Apr 2011 3:01 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L3 20cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 15:26 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.95	91	2589264	12.25	ppbv	95
52) o-Xylene	16.55	91	1269666	6.17	ppbv	95
53) Styrene	16.58	104	896832	6.35	ppbv	98
54) Bromoform	16.96	173	740106	6.25	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	752159	6.45	ppbv	98
57) 4-Ethyltoluene	17.78	105	1537193	6.25	ppbv	97
58) 1,3,5-Trimethylbenzene	17.86	105	1233963	6.08	ppbv	97
59) 1,2,4-Trimethylbenzene	18.44	105	1166931	6.44	ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	819898	6.50	ppbv	99
61) 1,4-Dichlorobenzene	19.16	146	789158	6.55	ppbv	99
62) Benzyl chloride	19.37	91	476314	6.04	ppbv	100
63) 1,2-Dichlorobenzene	19.81	146	706995	6.49	ppbv	98
64) 1,2,4-Trichlorobenzene	23.04	180	412851	6.65	ppbv	98
65) Hexachlorobutadiene	23.24	225	638050	5.88	ppbv	99
66) Naphthalene	23.75	128	506990	6.72	ppbv	100

(#) = qualifier out of range (m) = manual integration

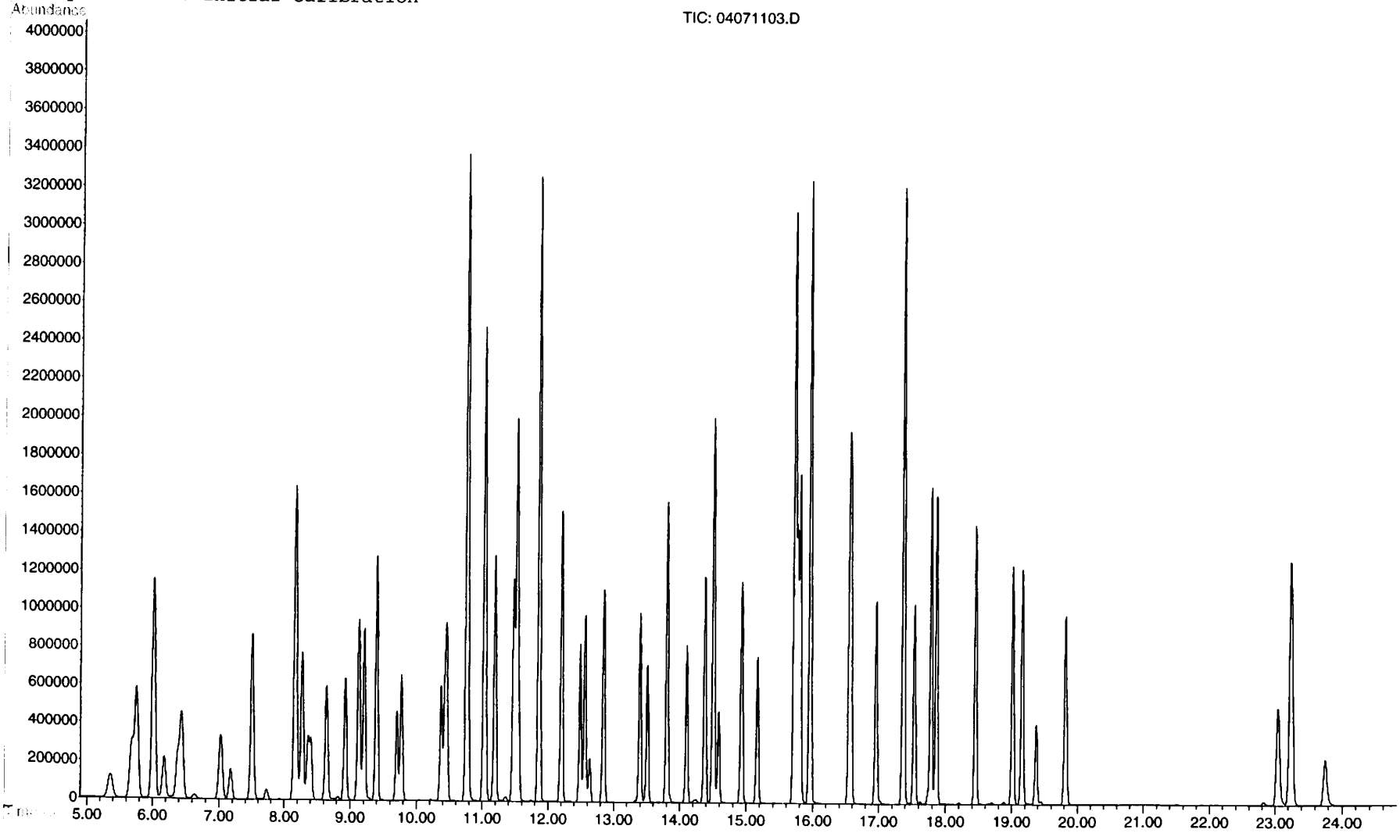
Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071103.D
Acq On : 7 Apr 2011 3:01 pm
Sample : TO15 L3 20cc voa101910d
Misc : ICAL EPA_TO15
MS Integration Params: CLME.P
Quant Time: Apr 7 15:26 2011

Vial: 3
Operator: Michael Truchan/Rachel Hill
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071104.D Vial: 4
Acq On : 7 Apr 2011 3:42 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 16:07 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	990788	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3451598	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2490589	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1565130	12.54	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.32%				
Target Compounds							Qvalue
2) Propylene	5.68	41	782062	10.53	ppbv		99
3) Dichlorodifluoromethane	5.75	85	2317232	9.49	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	1732411	9.65	ppbv		94
5) Chloromethane	6.17	50	869410	10.33	ppbv		100
6) Vinyl chloride	6.38	62	959473	10.08	ppbv		100
7) 1,3-Butadiene	6.44	39	751118	10.03	ppbv		98
8) Bromomethane	7.02	94	849546	9.74	ppbv		99
9) Chloroethane	7.17	64	487351	9.61	ppbv		99
10) Trichlorofluoromethane	7.50	101	2328404	10.00	ppbv		99
11) Ethanol	7.73	45	121854	7.40	ppbv		99
12) Freon113	8.16	101	1918463	10.25	ppbv		96
13) 1,1-Dichloroethene	8.27	61	1406516	10.25	ppbv		95
14) Acetone	8.36	43	982382	8.05	ppbv	#	95
15) Carbon disulfide	8.64	76	2453432	10.03	ppbv	#	100
16) 2-Propanol	8.40	45	743035	8.45	ppbv	#	1
17) Methylene chloride	8.93	49	1013170	10.15	ppbv		93
18) tert-Butyl Methyl Ether	9.13	73	1797911	7.94	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1290786	9.99	ppbv		95
20) n-Hexane	9.39	57	1399506	9.67	ppbv		97
21) 1,1-Dichloroethane	9.77	63	1471874	9.26	ppbv		99
22) Vinyl acetate	9.70	43	1304830	8.03	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	850340	9.36	ppbv		95
24) 2-Butanone	10.42	43	1024707	8.13	ppbv		96
25) Ethyl acetate	10.37	43	1320200	8.40	ppbv	#	99
26) Tetrahydrofuran	10.76	42	729400	8.83	ppbv		96
27) Chloroform	10.77	83	1653015	9.57	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1687173	9.46	ppbv		98
29) Cyclohexane	11.03	56	1403241	9.58	ppbv		96
30) Carbon tetrachloride	11.19	117	1640228	9.18	ppbv		99
31) Benzene	11.47	78	1984000	8.10	ppbv		98
32) 1,2-Dichloroethane	11.55	62	873174	8.85	ppbv		99
34) Heptane	11.52	43	1585314	9.51	ppbv		96
35) Trichloroethene	12.20	130	1056884	8.98	ppbv		97
36) 1,2-Dichloropropane	12.56	63	725267	8.73	ppbv		99
37) 1,4-Dioxane	12.63	88	277084	8.37	ppbv		98
38) Bromodichloromethane	12.84	83	1471670	9.05	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1105630	8.65	ppbv		98
40) 4-Methyl-2-pentanone	13.50	58	320017	8.42	ppbv		98
41) Toluene	13.80	91	2217271	8.52	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	882321	8.34	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	757671	8.94	ppbv		98
44) Tetrachloroethene	14.50	166	1342359	9.31	ppbv		99
45) 2-Hexanone	14.58	43	533258	9.59	ppbv		98
46) Chlorodibromomethane	14.93	129	1292792	9.10	ppbv		99
47) 1,2-Dibromoethane	15.16	107	1090311	8.83	ppbv		99
49) Chlorobenzene	15.76	112	1551844	8.86	ppbv		95
50) Ethylbenzene	15.80	91	2467314	8.52	ppbv		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071104.D Vial: 4
Acq On : 7 Apr 2011 3:42 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 16:07 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Mar 22 10:04:31 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

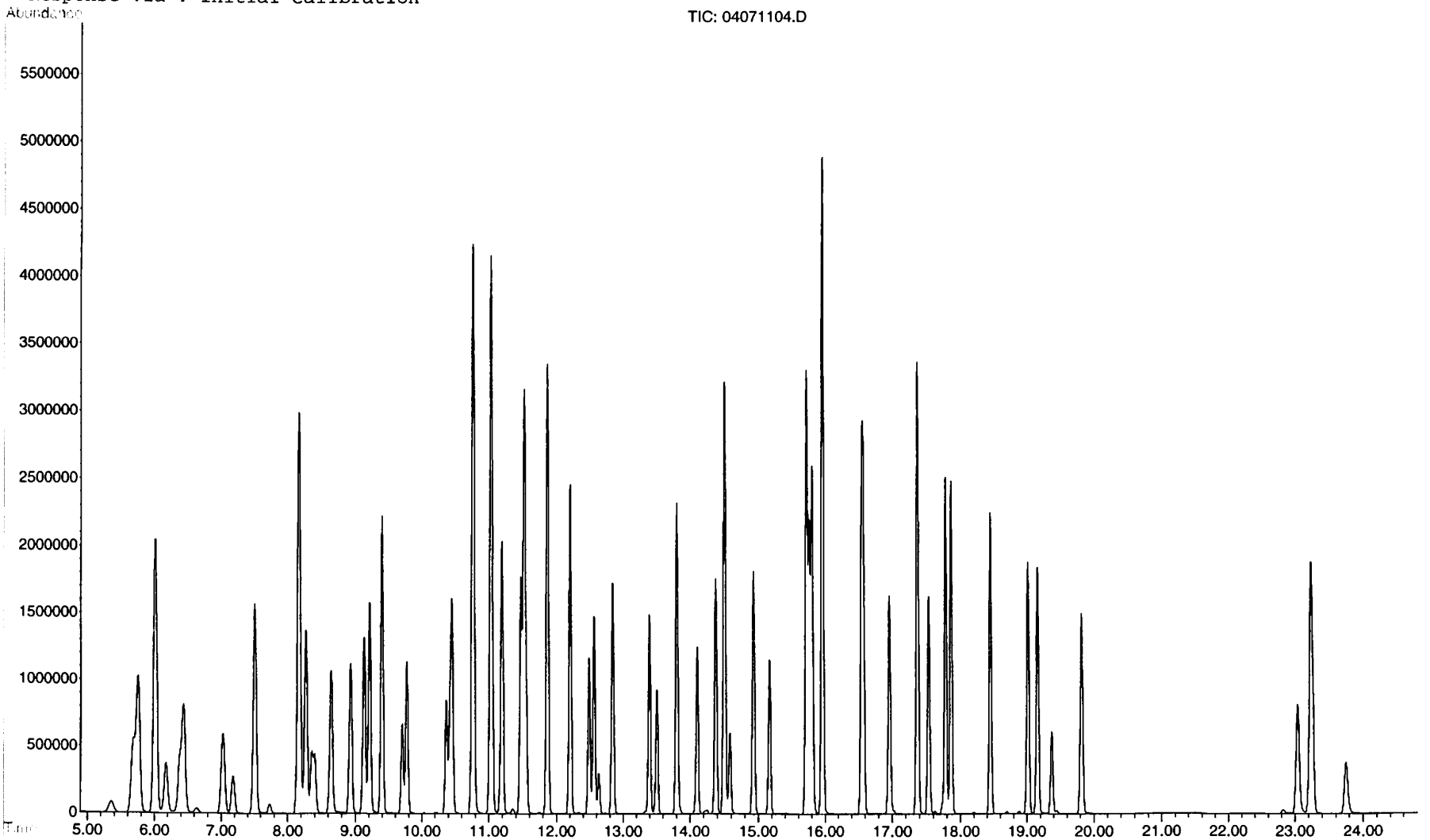
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	3886201	17.33	ppbv	96
52) o-Xylene	16.55	91	1934714	8.86	ppbv	95
53) Styrene	16.57	104	1364831	9.11	ppbv	98
54) Bromoform	16.96	173	1130743	9.00	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	1155943	9.34	ppbv	99
57) 4-Ethyltoluene	17.78	105	2313432	8.87	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	1877482	8.73	ppbv	97
59) 1,2,4-Trimethylbenzene	18.45	105	1781099	9.27	ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	1229619	9.19	ppbv	99
61) 1,4-Dichlorobenzene	19.16	146	1181198	9.24	ppbv	99
62) Benzyl chloride	19.37	91	697884	8.34	ppbv	100
63) 1,2-Dichlorobenzene	19.82	146	1056758	9.15	ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	635314	9.65	ppbv	98
65) Hexachlorobutadiene	23.24	225	933004	8.10	ppbv	99
66) Naphthalene	23.75	128	782934	9.78	ppbv	100

(#) = qualifier out of range (m) = manual integration
04071104.D 040711V1.M Thu Apr 14 15:49:21 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071104.D Vial: 4
Acq On : 7 Apr 2011 3:42 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L4 40cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 16:07 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071105.D Vial: 5
Acq On : 7 Apr 2011 4:23 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 16:48 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 16:13:39 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	1012352	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3556314	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.71	117	2569280	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1602700	14.93	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 119.44%#				
Target Compounds							Qvalue
2) Propylene	5.69	41	910299	14.62	ppbv		100
3) Dichlorodifluoromethane	5.76	85	2712066	13.37	ppbv		100
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	2028670	13.58	ppbv		94
5) Chloromethane	6.18	50	1011944	14.37	ppbv		99
6) Vinyl chloride	6.38	62	1105948	13.91	ppbv		100
7) 1,3-Butadiene	6.44	39	881617	14.10	ppbv		99
8) Bromomethane	7.02	94	990302	13.64	ppbv		99
9) Chloroethane	7.17	64	569736	13.51	ppbv		99
10) Trichlorofluoromethane	7.51	101	2708297	13.93	ppbv		100
11) Ethanol	7.73	45	155608	11.57	ppbv		99
12) Freon113	8.17	101	2240764	14.32	ppbv		95
13) 1,1-Dichloroethene	8.27	61	1643448	14.33	ppbv		96
14) Acetone	8.36	43	1228882	12.26	ppbv		99
15) Carbon disulfide	8.64	76	2862445	14.01	ppbv	#	100
16) 2-Propanol	8.40	45	948527	13.09	ppbv	#	1
17) Methylene chloride	8.93	49	1193496	14.32	ppbv		93
18) tert-Butyl Methyl Ether	9.12	73	2229762	12.00	ppbv		99
19) trans-1,2-Dichloroethene	9.21	61	1536127	14.25	ppbv		95
20) n-Hexane	9.40	57	1681794	13.97	ppbv		98
21) 1,1-Dichloroethane	9.77	63	1774233	13.46	ppbv		99
22) Vinyl acetate	9.70	43	1622234	12.16	ppbv		98
23) cis-1,2-Dichloroethene	10.45	96	1017551	13.49	ppbv		95
24) 2-Butanone	10.42	43	1307387	12.63	ppbv		95
25) Ethyl acetate	10.37	43	1651421	12.76	ppbv	#	100
26) Tetrahydrofuran	10.76	42	912014	13.36	ppbv		97
27) Chloroform	10.77	83	1956488	13.63	ppbv		100
28) 1,1,1-Trichloroethane	11.03	97	1999035	13.49	ppbv		98
29) Cyclohexane	11.04	56	1659107	13.62	ppbv		96
30) Carbon tetrachloride	11.19	117	1951080	13.18	ppbv		99
31) Benzene	11.47	78	2427813	12.07	ppbv		98
32) 1,2-Dichloroethane	11.55	62	1063109	13.04	ppbv		99
34) Heptane	11.52	43	1889743	13.53	ppbv		97
35) Trichloroethene	12.20	130	1264295	12.87	ppbv		97
36) 1,2-Dichloropropane	12.56	63	892314	12.90	ppbv		100
37) 1,4-Dioxane	12.63	88	359814	13.10	ppbv		97
38) Bromodichloromethane	12.84	83	1786864	13.16	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	1352715	12.72	ppbv		98
40) 4-Methyl-2-pentanone	13.50	58	409017	12.96	ppbv		98
41) Toluene	13.80	91	2719288	12.57	ppbv		99
42) trans-1,3-Dichloropropene	14.10	75	1083369	12.34	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	931568	13.18	ppbv		98
44) Tetrachloroethene	14.51	166	1612278	13.36	ppbv		100
45) 2-Hexanone	14.59	43	664176	14.24	ppbv		98
46) Chlorodibromomethane	14.93	129	1589080	13.39	ppbv		100
47) 1,2-Dibromoethane	15.17	107	1333793	12.96	ppbv		99
49) Chlorobenzene	15.76	112	1899846	13.00	ppbv		95
50) Ethylbenzene	15.80	91	3016766	12.52	ppbv		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071105.D Vial: 5
Acq On : 7 Apr 2011 4:23 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 16:48 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 16:13:39 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

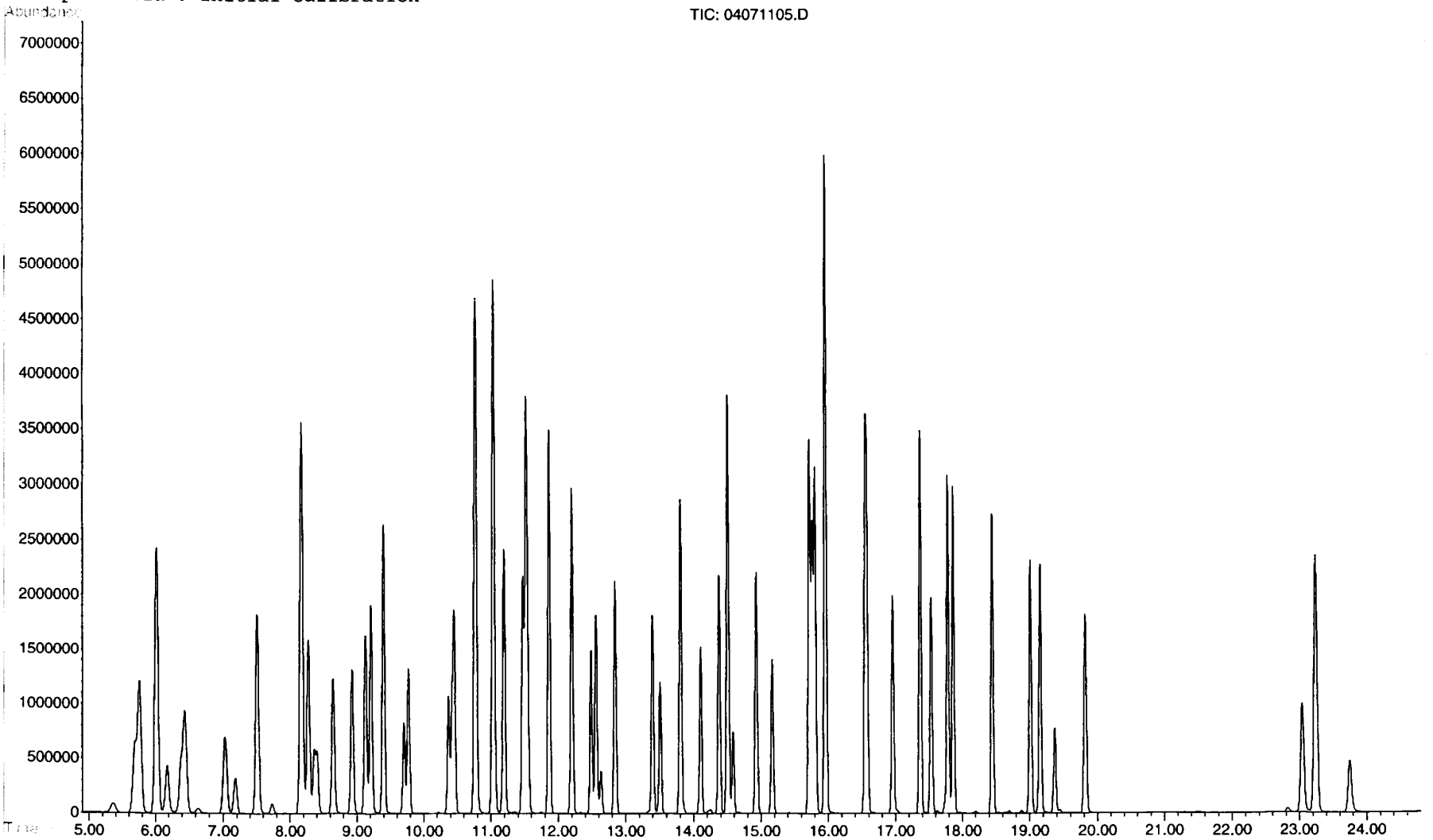
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	4693384	23.44	ppbv	97
52) o-Xylene	16.55	91	2357602	12.94	ppbv	96
53) Styrene	16.57	104	1679241	13.40	ppbv	98
54) Bromoform	16.96	173	1359184	12.95	ppbv	99
56) 1,1,2,2-Tetrachloroethane	17.53	83	1418991	13.68	ppbv	99
57) 4-Ethyltoluene	17.78	105	2823752	12.97	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	2258113	12.59	ppbv	98
59) 1,2,4-Trimethylbenzene	18.45	105	2162310	13.43	ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	1481275	13.23	ppbv	99
61) 1,4-Dichlorobenzene	19.16	146	1418901	13.25	ppbv	99
62) Benzyl chloride	19.37	91	872299	12.54	ppbv	100
63) 1,2-Dichlorobenzene	19.82	146	1270860	13.15	ppbv	99
64) 1,2,4-Trichlorobenzene	23.04	180	793882	14.35	ppbv	98
65) Hexachlorobutadiene	23.24	225	1146030	12.00	ppbv	100
66) Naphthalene	23.75	128	964336	14.32	ppbv	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071105.D Vial: 5
Acq On : 7 Apr 2011 4:23 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L5 48cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 16:48 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071106.D Vial: 6
Acq On : 7 Apr 2011 5:04 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 17:30 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 17:14:33 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.76	130	1010212	12.50	ppbv	0.00
33) 1,4-Difluorobenzene	11.86	114	3541669	12.50	ppbv	0.00
48) Chlorobenzene-d5	15.71	117	2557675	12.50	ppbv	0.00
System Monitoring Compounds						
55) 4-Bromofluorobenzene	17.37	95	1605306	12.53	ppbv	0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.24%			
Target Compounds						Qvalue
2) Propylene	5.68	41	1129554	13.58	ppbv	99
3) Dichlorodifluoromethane	5.75	85	3340020	12.13	ppbv	99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	2510052	12.57	ppbv	94
5) Chloromethane	6.17	50	1226381	11.95	ppbv	100
6) Vinyl chloride	6.38	62	1322699	11.66	ppbv	100
7) 1,3-Butadiene	6.44	39	1015454	11.94	ppbv	97
8) Bromomethane	7.02	94	1216921	12.24	ppbv	99
9) Chloroethane	7.17	64	704512	12.30	ppbv	99
10) Trichlorofluoromethane	7.50	101	3328810	12.59	ppbv	99
11) Ethanol	7.73	45	206934	11.44	ppbv	100
12) Freon113	8.16	101	2759714	13.08	ppbv	95
13) 1,1-Dichloroethene	8.27	61	2025482	13.02	ppbv	95
14) Acetone	8.36	43	1602701	12.93	ppbv	99
15) Carbon disulfide	8.64	76	3509238	12.66	ppbv #	100
16) 2-Propanol	8.40	45	1266931	14.06	ppbv	100
17) Methylene chloride	8.93	49	1466404	12.94	ppbv	93
18) tert-Butyl Methyl Ether	9.12	73	2910853	13.16	ppbv	99
19) trans-1,2-Dichloroethene	9.21	61	1908247	13.17	ppbv	95
20) n-Hexane	9.40	57	2114656	13.65	ppbv	98
21) 1,1-Dichloroethane	9.77	63	2231331	12.93	ppbv	100
22) Vinyl acetate	9.70	43	2125315	13.70	ppbv	98
23) cis-1,2-Dichloroethene	10.45	96	1303864	13.36	ppbv	95
24) 2-Butanone	10.42	43	1736163	13.65	ppbv	95
25) Ethyl acetate	10.37	43	2183625	14.23	ppbv #	100
26) Tetrahydrofuran	10.76	42	1184586	13.70	ppbv	97
27) Chloroform	10.77	83	2441293	12.67	ppbv	99
28) 1,1,1-Trichloroethane	11.03	97	2515304	12.65	ppbv	99
29) Cyclohexane	11.03	56	2083491	13.16	ppbv	97
30) Carbon tetrachloride	11.19	117	2480089	12.63	ppbv	99
31) Benzene	11.47	78	3121794	12.70	ppbv	98
32) 1,2-Dichloroethane	11.55	62	1354852	12.70	ppbv	100
34) Heptane	11.52	43	2379376	13.24	ppbv	97
35) Trichloroethene	12.20	130	1628668	12.94	ppbv	97
36) 1,2-Dichloropropane	12.56	63	1172229	13.46	ppbv	100
37) 1,4-Dioxane	12.63	88	479385	13.04	ppbv	97
38) Bromodichloromethane	12.84	83	2297728	13.10	ppbv	99
39) cis-1,3-Dichloropropene	13.39	75	1766377	13.28	ppbv	99
40) 4-Methyl-2-pentanone	13.51	58	554931	14.51	ppbv	98
41) Toluene	13.80	91	3513540	13.21	ppbv	100
42) trans-1,3-Dichloropropene	14.10	75	1423896	12.98	ppbv	98
43) 1,1,2-Trichloroethane	14.37	97	1218677	13.55	ppbv	98
44) Tetrachloroethene	14.51	166	2023924	12.62	ppbv	99
45) 2-Hexanone	14.58	43	881382	13.32	ppbv	99
46) Chlorodibromomethane	14.92	129	2070622	13.65	ppbv	100
47) 1,2-Dibromoethane	15.16	107	1729250	13.09	ppbv	99
49) Chlorobenzene	15.76	112	2463963	13.33	ppbv	96
50) Ethylbenzene	15.80	91	3856867	13.00	ppbv	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071106.D Vial: 6
Acq On : 7 Apr 2011 5:04 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 17:30 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 17:14:33 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

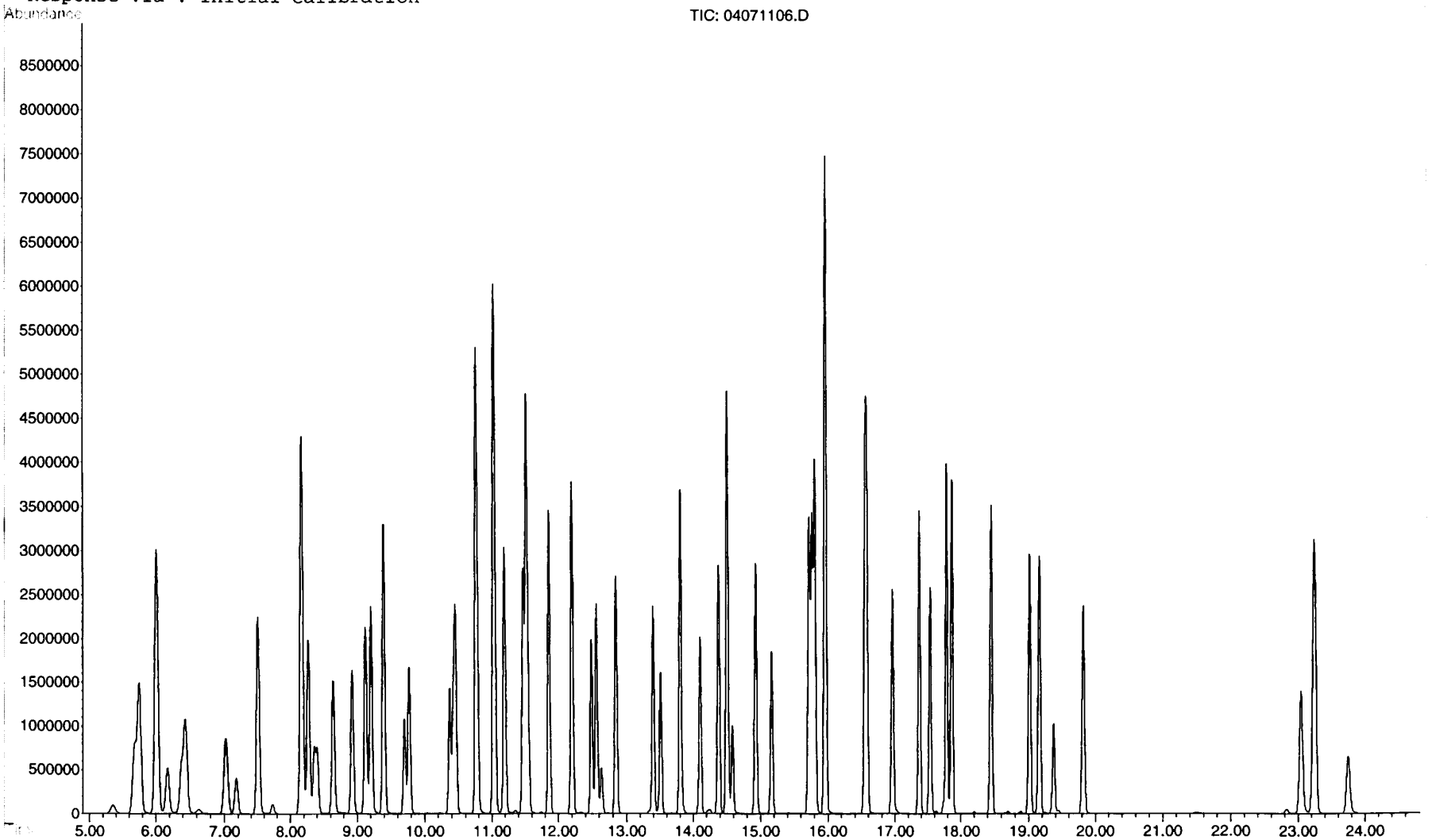
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	m,p-Xylene	15.95	91	5855333	24.71	ppbv	98
52)	o-Xylene	16.55	91	3040256	13.47	ppbv	97
53)	Styrene	16.58	104	2200594	13.63	ppbv	98
54)	Bromoform	16.96	173	1759019	12.83	ppbv	99
56)	1,1,2,2-Tetrachloroethane	17.53	83	1839910	13.94	ppbv	99
57)	4-Ethyltoluene	17.78	105	3573406	12.90	ppbv	99
58)	1,3,5-Trimethylbenzene	17.86	105	2883005	12.63	ppbv	98
59)	1,2,4-Trimethylbenzene	18.45	105	2790692	13.21	ppbv	99
60)	1,3-Dichlorobenzene	19.01	146	1890940	12.65	ppbv	99
61)	1,4-Dichlorobenzene	19.16	146	1818760	12.61	ppbv	99
62)	Benzyl chloride	19.37	91	1156655	13.39	ppbv	100
63)	1,2-Dichlorobenzene	19.81	146	1626051	12.68	ppbv	99
64)	1,2,4-Trichlorobenzene	23.04	180	1060323	13.14	ppbv	98
65)	Hexachlorobutadiene	23.24	225	1511863	12.58	ppbv	100
66)	Naphthalene	23.75	128	1317003	13.15	ppbv	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071106.D Vial: 6
Acq On : 7 Apr 2011 5:04 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L6 60cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 17:30 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071107.D Vial: 7
Acq On : 7 Apr 2011 5:45 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 18:10 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 17:30:35 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	1021775	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3560621	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2605036	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1641559	12.57	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.56%				
Target Compounds							Qvalue
2) Propylene	5.68	41	1403642	17.07	ppbv		99
3) Dichlorodifluoromethane	5.75	85	4120970	15.16	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	3079909	15.62	ppbv		94
5) Chloromethane	6.17	50	1493455	14.88	ppbv		99
6) Vinyl chloride	6.38	62	1594578	14.40	ppbv		99
7) 1,3-Butadiene	6.44	39	1192903	14.41	ppbv		98
8) Bromomethane	7.02	94	1500113	15.30	ppbv		99
9) Chloroethane	7.17	64	864379	15.25	ppbv		99
10) Trichlorofluoromethane	7.51	101	3995845	15.33	ppbv		99
11) Ethanol	7.73	45	258585	14.63	ppbv		99
12) Freon113	8.16	101	3216596	15.41	ppbv		95
13) 1,1-Dichloroethene	8.27	61	2399549	15.64	ppbv		96
14) Acetone	8.36	43	1911333	15.68	ppbv		99
15) Carbon disulfide	8.64	76	4250984	15.58	ppbv	#	100
16) 2-Propanol	8.40	45	1589911	17.71	ppbv		95
17) Methylene chloride	8.93	49	1722844	15.46	ppbv		94
18) tert-Butyl Methyl Ether	9.13	73	3419813	15.65	ppbv		99
19) trans-1,2-Dichloroethene	9.20	61	2236256	15.59	ppbv		96
20) n-Hexane	9.39	57	2484990	16.19	ppbv		99
21) 1,1-Dichloroethane	9.77	63	2653207	15.56	ppbv		100
22) Vinyl acetate	9.70	43	2514051	16.28	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	1566149	16.16	ppbv		96
24) 2-Butanone	10.42	43	2044684	16.17	ppbv		98
25) Ethyl acetate	10.37	43	2563976	16.63	ppbv	#	100
26) Tetrahydrofuran	10.76	42	1417321	16.50	ppbv		97
27) Chloroform	10.77	83	2893409	15.27	ppbv		99
28) 1,1,1-Trichloroethane	11.02	97	2938865	14.98	ppbv		98
29) Cyclohexane	11.04	56	2418040	15.42	ppbv		97
30) Carbon tetrachloride	11.19	117	2928742	15.10	ppbv		99
31) Benzene	11.47	78	3718830	15.32	ppbv		98
32) 1,2-Dichloroethane	11.55	62	1592604	15.15	ppbv		99
34) Heptane	11.52	43	2810082	15.90	ppbv		98
35) Trichloroethene	12.20	130	1971485	15.91	ppbv		97
36) 1,2-Dichloropropane	12.56	63	1407550	16.35	ppbv		100
37) 1,4-Dioxane	12.63	88	596057	16.44	ppbv		98
38) Bromodichloromethane	12.84	83	2758517	15.93	ppbv		100
39) cis-1,3-Dichloropropene	13.39	75	2142938	16.25	ppbv		99
40) 4-Methyl-2-pentanone	13.50	58	691806	18.11	ppbv		98
41) Toluene	13.80	91	4158131	15.88	ppbv		99
42) trans-1,3-Dichloropropene	14.11	75	1719624	15.75	ppbv		98
43) 1,1,2-Trichloroethane	14.38	97	1469131	16.51	ppbv		98
44) Tetrachloroethene	14.50	166	2416307	15.43	ppbv		99
45) 2-Hexanone	14.58	43	1103414	16.90	ppbv		99
46) Chlorodibromomethane	14.93	129	2498527	16.62	ppbv		99
47) 1,2-Dibromoethane	15.16	107	2097698	16.09	ppbv		100
49) Chlorobenzene	15.76	112	2982097	16.18	ppbv		97
50) Ethylbenzene	15.80	91	4590314	15.55	ppbv		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071107.D Vial: 7
Acq On : 7 Apr 2011 5:45 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 18:10 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 17:30:35 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

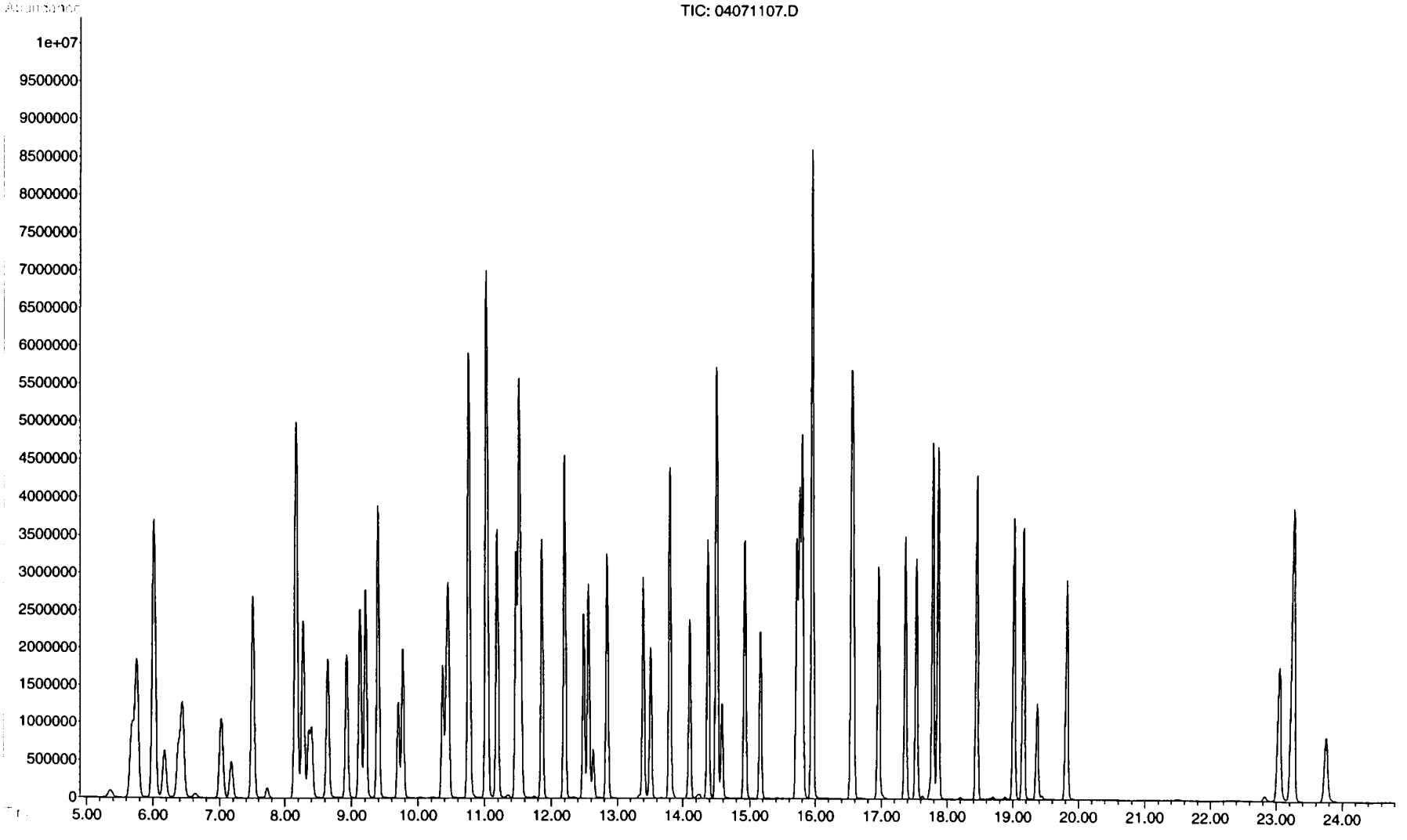
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	m,p-Xylene	15.96	91	6819958	29.09	ppbv	99
52)	o-Xylene	16.55	91	3643124	16.18	ppbv	97
53)	Styrene	16.57	104	2665983	16.45	ppbv	99
54)	Bromoform	16.96	173	2121592	15.53	ppbv	99
56)	1,1,2,2-Tetrachloroethane	17.53	83	2252285	17.00	ppbv	100
57)	4-Ethyltoluene	17.78	105	4289837	15.59	ppbv	99
58)	1,3,5-Trimethylbenzene	17.86	105	3491705	15.44	ppbv	99
59)	1,2,4-Trimethylbenzene	18.45	105	3371068	16.00	ppbv	99
60)	1,3-Dichlorobenzene	19.01	146	2289138	15.44	ppbv	99
61)	1,4-Dichlorobenzene	19.16	146	2202554	15.37	ppbv	99
62)	Benzyl chloride	19.37	91	1437788	16.61	ppbv	100
63)	1,2-Dichlorobenzene	19.82	146	1976891	15.54	ppbv	99
64)	1,2,4-Trichlorobenzene	23.04	180	1351732	16.58	ppbv	98
65)	Hexachlorobutadiene	23.24	225	1860948	15.54	ppbv	100
66)	Naphthalene	23.75	128	1696622	16.79	ppbv	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071107.D Vial: 7
Acq On : 7 Apr 2011 5:45 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L7 80cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 18:10 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071108.D Vial: 8
Acq On : 7 Apr 2011 6:26 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L8 120cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 18:51 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 18:15:17 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	941586	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3308991	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2485310	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1562366	12.53	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.24%				
Target Compounds							Qvalue
2) Propylene	5.68	41	2157827	29.27	ppbv		99
3) Dichlorodifluoromethane	5.75	85	6176700	25.41	ppbv		98
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	4643292	26.34	ppbv		94
5) Chloromethane	6.17	50	2220436	24.91	ppbv		100
6) Vinyl chloride	6.38	62	2345159	23.92	ppbv		99
7) 1,3-Butadiene	6.44	39	1731184	23.74	ppbv		96
8) Bromomethane	7.02	94	2316246	26.42	ppbv		99
9) Chloroethane	7.17	64	1329452	26.20	ppbv		99
10) Trichlorofluoromethane	7.50	101	5923816	25.52	ppbv		98
11) Ethanol	7.73	45	464819	29.55	ppbv		99
12) Freon113	8.16	101	4822469	26.00	ppbv		95
13) 1,1-Dichloroethene	8.27	61	3650724	26.76	ppbv		97
14) Acetone	8.36	43	3339995	30.84	ppbv		99
15) Carbon disulfide	8.64	76	6348292	26.10	ppbv	#	99
16) 2-Propanol	8.40	45	2759550	34.05	ppbv	#	1
17) Methylene chloride	8.92	49	2709984	27.43	ppbv		95
18) tert-Butyl Methyl Ether	9.13	73	5967115	30.71	ppbv		98
19) trans-1,2-Dichloroethene	9.20	61	3507320	27.47	ppbv		96
20) n-Hexane	9.39	57	3931090	28.74	ppbv		100
21) 1,1-Dichloroethane	9.77	63	4223458	27.79	ppbv		99
22) Vinyl acetate	9.70	43	4417968	32.00	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	2532613	29.21	ppbv		96
24) 2-Butanone	10.42	43	3637975	32.20	ppbv		98
25) Ethyl acetate	10.36	43	4686350	33.84	ppbv	#	99
26) Tetrahydrofuran	10.76	42	2392834	31.13	ppbv		98
27) Chloroform	10.77	83	4454078	26.49	ppbv		99
28) 1,1,1-Trichloroethane	11.03	97	4462410	25.62	ppbv		97
29) Cyclohexane	11.03	56	3671189	26.35	ppbv		97
30) Carbon tetrachloride	11.19	117	4503163	26.09	ppbv		99
31) Benzene	11.47	78	6204362	28.71	ppbv		97
32) 1,2-Dichloroethane	11.55	62	2596611	27.82	ppbv		99
34) Heptane	11.52	43	4285422	26.98	ppbv		99
35) Trichloroethene	12.20	130	3087936	27.60	ppbv		97
36) 1,2-Dichloropropane	12.56	63	2419771	31.11	ppbv		100
37) 1,4-Dioxane	12.63	88	1046974	31.83	ppbv		97
38) Bromodichloromethane	12.84	83	4460376	28.53	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	3667532	30.67	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	1294771	37.06	ppbv		98
41) Toluene	13.80	91	6900287	29.28	ppbv		95
42) trans-1,3-Dichloropropene	14.10	75	2981310	30.06	ppbv		99
43) 1,1,2-Trichloroethane	14.38	97	2526765	31.37	ppbv		98
44) Tetrachloroethene	14.51	166	3657144	25.97	ppbv		99
45) 2-Hexanone	14.59	43	1968594	33.21	ppbv		100
46) Chlorodibromomethane	14.93	129	4063052	29.84	ppbv		99
47) 1,2-Dibromoethane	15.17	107	3508316	29.76	ppbv		100
49) Chlorobenzene	15.76	112	5017827	29.43	ppbv		96
50) Ethylbenzene	15.80	91	7443702	27.37	ppbv		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071108.D Vial: 8
Acq On : 7 Apr 2011 6:26 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L8 120cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 18:51 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 18:15:17 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

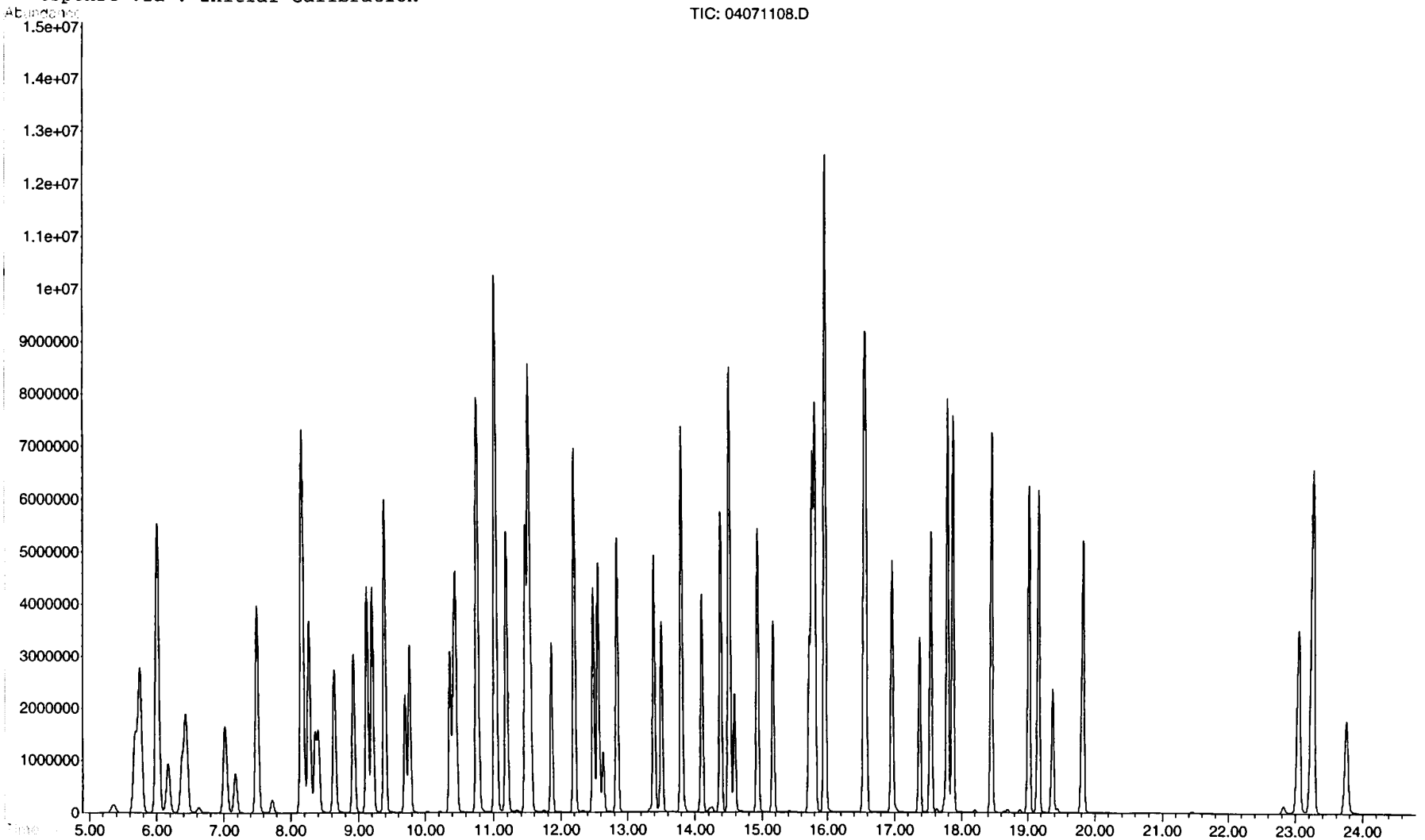
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) m,p-Xylene	15.96	91	10024421	46.70	ppbv	96
52) o-Xylene	16.55	91	5889551	28.32	ppbv	96
53) Styrene	16.58	104	4412813	29.33	ppbv	98
54) Bromoform	16.96	173	3412174	27.05	ppbv	98
56) 1,1,2,2-Tetrachloroethane	17.53	83	3868038	31.38	ppbv	99
57) 4-Ethyltoluene	17.78	105	7125000	28.09	ppbv	98
58) 1,3,5-Trimethylbenzene	17.86	105	5741368	27.55	ppbv	98
59) 1,2,4-Trimethylbenzene	18.45	105	5712455	29.31	ppbv	98
60) 1,3-Dichlorobenzene	19.01	146	3888678	28.47	ppbv	97
61) 1,4-Dichlorobenzene	19.16	146	3759674	28.45	ppbv	97
62) Benzyl chloride	19.37	91	2634723	32.69	ppbv	99
63) 1,2-Dichlorobenzene	19.82	146	3455605	29.45	ppbv	98
64) 1,2,4-Trichlorobenzene	23.04	180	2500286	32.63	ppbv	99
65) Hexachlorobutadiene	23.24	225	3215919	28.99	ppbv	100
66) Naphthalene	23.75	128	3336785	35.12	ppbv	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071108.D Vial: 8
Acq On : 7 Apr 2011 6:26 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L8 120cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 18:51 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071109.D Vial: 9
Acq On : 7 Apr 2011 7:07 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L9 200cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 19:32 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 18:15:17 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.76	130	884264	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.86	114	3305804	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.72	117	2536474	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.37	95	1599942	12.57	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 100.56%				
Target Compounds							Qvalue
2) Propylene	5.68	41	3311135	47.82	ppbv		99
3) Dichlorodifluoromethane	5.75	85	9036248	39.58	ppbv		97
4) 1,2-Dichloro-1,2,2,2-tetra	6.01	135	6372035	38.49	ppbv		93
5) Chloromethane	6.17	50	3192515	38.13	ppbv		100
6) Vinyl chloride	6.38	62	3324042	36.10	ppbv	#	99
7) 1,3-Butadiene	6.44	39	2423834	35.39	ppbv		96
8) Bromomethane	7.02	94	3386574	41.13	ppbv		99
9) Chloroethane	7.17	64	1910598	40.09	ppbv		99
10) Trichlorofluoromethane	7.50	101	7953397	36.48	ppbv		96
11) Ethanol	7.74	45	676443	45.80	ppbv		99
12) Freon113	8.16	101	6234888	35.79	ppbv		93
13) 1,1-Dichloroethene	8.27	61	4957162	38.69	ppbv		97
14) Acetone	8.36	43	4566789	44.91	ppbv	#	96
15) Carbon disulfide	8.64	76	8770014	38.39	ppbv	#	98
16) 2-Propanol	8.41	45	3918224	51.48	ppbv	#	1
17) Methylene chloride	8.93	49	3741798	40.32	ppbv		96
18) tert-Butyl Methyl Ether	9.12	73	7748852	42.47	ppbv		97
19) trans-1,2-Dichloroethene	9.21	61	4709036	39.27	ppbv		98
20) n-Hexane	9.39	57	5223463	40.66	ppbv		100
21) 1,1-Dichloroethane	9.77	63	5722256	40.09	ppbv		98
22) Vinyl acetate	9.70	43	5889752	45.42	ppbv		99
23) cis-1,2-Dichloroethene	10.45	96	3425877	42.08	ppbv		97
24) 2-Butanone	10.42	43	5010525	47.22	ppbv		98
25) Ethyl acetate	10.37	43	6130222	47.13	ppbv	#	99
26) Tetrahydrofuran	10.76	42	3172048	43.95	ppbv		99
27) Chloroform	10.78	83	5868113	37.16	ppbv		98
28) 1,1,1-Trichloroethane	11.03	97	5746953	35.14	ppbv		96
29) Cyclohexane	11.04	56	4683187	35.79	ppbv		96
30) Carbon tetrachloride	11.19	117	5800907	35.78	ppbv		98
31) Benzene	11.47	78	8034220	39.58	ppbv		96
32) 1,2-Dichloroethane	11.55	62	3384478	38.62	ppbv		98
34) Heptane	11.52	43	5404160	34.06	ppbv		98
35) Trichloroethene	12.20	130	4039007	36.13	ppbv		96
36) 1,2-Dichloropropane	12.56	63	3220563	41.44	ppbv		99
37) 1,4-Dioxane	12.63	88	1498079	45.59	ppbv		97
38) Bromodichloromethane	12.84	83	5901545	37.79	ppbv		99
39) cis-1,3-Dichloropropene	13.39	75	4936535	41.32	ppbv		98
40) 4-Methyl-2-pentanone	13.51	58	1816206	52.04	ppbv		98
41) Toluene	13.81	91	8872457	37.68	ppbv		92
42) trans-1,3-Dichloropropene	14.10	75	4058535	40.96	ppbv		99
43) 1,1,2-Trichloroethane	14.38	97	3398019	42.23	ppbv		98
44) Tetrachloroethene	14.51	166	4565896	32.46	ppbv		98
45) 2-Hexanone	14.58	43	2796489	47.23	ppbv		99
46) Chlorodibromomethane	14.92	129	5230331	38.45	ppbv		98
47) 1,2-Dibromoethane	15.17	107	4632979	39.34	ppbv		100
49) Chlorobenzene	15.76	112	6594918	37.90	ppbv		95
50) Ethylbenzene	15.80	91	9463877	34.10	ppbv		95

(#) = qualifier out of range (m) = manual integration
04071109.D 040711V1.M Thu Apr 14 15:49:50 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040711\04071109.D Vial: 9
Acq On : 7 Apr 2011 7:07 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L9 200cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 19:32 2011 Quant Results File: 040711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Thu Apr 07 18:15:17 2011
Response via : Initial Calibration
DataAcq Meth : 040711V1

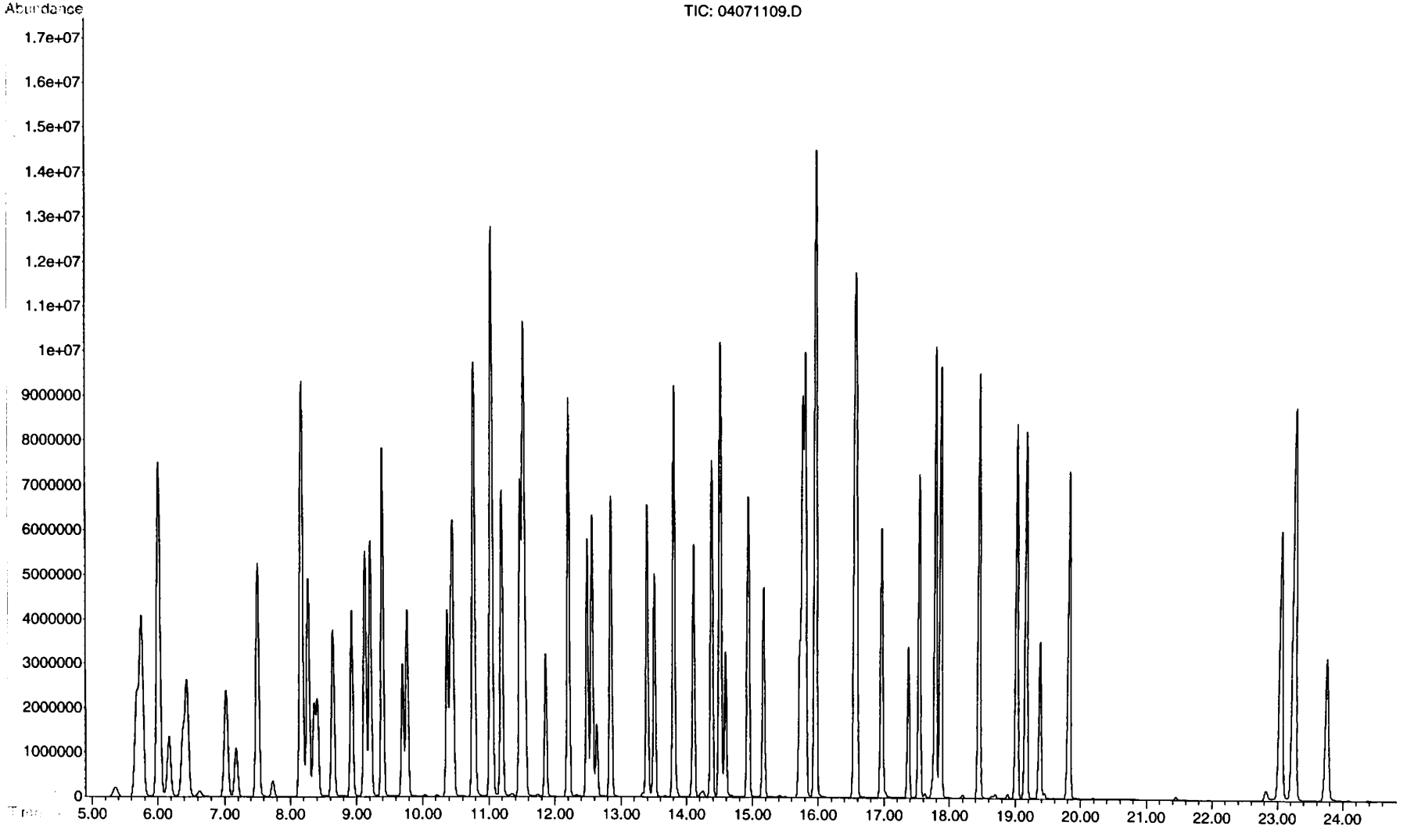
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	m,p-Xylene	15.96	91	12110995	55.28	ppbv		95
52)	o-Xylene	16.55	91	7576158	35.69	ppbv	#	95
53)	Styrene	16.58	104	5681418	37.00	ppbv		97
54)	Bromoform	16.96	173	4351512	33.80	ppbv		97
56)	1,1,2,2-Tetrachloroethane	17.53	83	5311502	42.23	ppbv		99
57)	4-Ethyltoluene	17.78	105	9278352	35.84	ppbv		95
58)	1,3,5-Trimethylbenzene	17.86	105	7544600	35.47	ppbv		97
59)	1,2,4-Trimethylbenzene	18.45	105	7689511	38.66	ppbv		96
60)	1,3-Dichlorobenzene	19.01	146	5327864	38.22	ppbv		96
61)	1,4-Dichlorobenzene	19.16	146	5051193	37.45	ppbv		96
62)	Benzyl chloride	19.37	91	3937159	47.87	ppbv		100
63)	1,2-Dichlorobenzene	19.81	146	4929230	41.16	ppbv		96
64)	1,2,4-Trichlorobenzene	23.04	180	4276537	54.69	ppbv		99
65)	Hexachlorobutadiene	23.24	225	4385154	38.73	ppbv		99
66)	Naphthalene	23.74	128	5706980	58.85	ppbv		98

(#) = qualifier out of range (m) = manual integration
04071109.D 040711V1.M Thu Apr 14 15:49:51 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040711\04071109.D Vial: 9
Acq On : 7 Apr 2011 7:07 pm Operator: Michael Truchan/Rachel Hill
Sample : TO15 L9 200cc voa101910d Inst : GC/MS Ins
Misc : ICAL EPA_TO15-ug/m3 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 7 19:32 2011 Quant Results File: 040711V1.RES

Method : C:\HPCHEM\1\METHODS\040711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Apr 08 09:59:38 2011
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040511\04051101.D
Tune Time : 5 Apr 2011 10:02 am

Daily Calibration File : C:\HPCHEM\1\DATA\030711\03071105.D

			811415	2951230	2172950
File	Sample	Surrogate Recovery %	Internal Standard Responses		
04051102.D	TO15 CCV	98	592350	2152311	1591423
04051103.D	TO15 CCV	99	609792	2094150	1540048
04051104.D	TO15 RLV	99	609838	2187406	1543267
04051105.D	MBLK	94	606512	2176127	1506272
04051106.D	CLEAN CH	94	594783	2134515	1464237
04051107.D	CLEAN CH	94	586626	2085668	1413770
04051108.D	1103389-	98	570986	1996064	1439020
04051110.D	1103389-	97	566293	1977413	1414491
04051111.D	1103389-	105	516154	1587533	1514333
04051112.D	1103389-	102	577909	2078942	1536000
04051113.D	1103389-	104	539937	2035625	1499648
04051114.D	1103389-	105	538378	1926083	1517427
04051115.D	1103389-	125*	351461*	1098553*	1570000
04051116.D	1103389-	102	687011	2335522	1887500
04051117.D	1103389-	101	714788	2520846	1946870
04051118.D	1103389-	98	729032	2478538	1852051
04051119.D	1103389-	99	708224	2353141	1883452
04051120.D	1103389-	97	713598	2470483	1872029
04051121.D	1103389-	101	671093	2171606	1876105
04051122.D	1103389-	99	708192	2454894	1886064
04051123.D	1103389-	98	714393	2485732	1835341
04051124.D	1103389-	102	666828	2427606	1793204
04051125.D	1103389-	97	674209	2450852	1757948
04051126.D	1103389-	98	650704	2371190	1699829
04051127.D	1103609-	101	626353	2280963	1638091
04051128.D	1103609-	100	607038	2215414	1552803
04051129.D	1103609-	100	576030	2135677	1524842
04051130.D	1103609-	100	556894	2071074	1505627
04051131.D	1103609-	101	531030	1897326	1522474
04051132.D	1103609-	101	545943	1941202	1540754
04051133.D	TO15 RLV	101	593261	2204699	1558731

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 12:36:06 2011 GC

Tune File : C:\HPCHEM\1\DATA\040611\04061101.D
Tune Time : 6 Apr 2011 10:17 am

Daily Calibration File : C:\HPCHEM\1\DATA\030711\03071105.D

			811415	2951230	2172950
File	Sample	Surrogate Recovery %	Internal Standard Responses		
04061102.D	TO15 CCV	101	606643	2059428	1488864
04061103.D	TO15 RLV	101	599834	2138885	1500764
04061104.D	MBLK	98	584673	2147567	1485705
04061105.D	tedlar b	103	556728	2177120	1456503
04061106.D	digital	97	528628	1910351	1330940
04061107.D	1104113-	104	469725	1661498	1231527
04061108.D	1103389-	101	512160	1856225	1364721
04061109.D	1104113-	103	524347	1932044	1390508
04061110.D	1103389-	100	490678	1746666	1202987
04061111.D	1103389-	99	486908	1742841	1217097
04061112.D	1103389-	100	470556	1662762	1178453
04061113.D	1103389-	100	465566	1632181	1163433
04061114.D	1103389-	103	460640	1572041	1198930
04061115.D	1103389-	99	471276	1668043	1215784
04061116.D	1103389-	99	474515	1704454	1218805
04061117.D	1103389-	99	478577	1753137	1210849
04061118.D	1103389-	99	458502	1655503	1191283
04061119.D	1103389-	98	463590	1648980	1178344
04061120.D	1103609-	99	459824	1636131	1146646
04061121.D	1103609-	100	453323	1634998	1162655
04061122.D	1103609-	96	448310	1601609	1133738
04061123.D	1103609-	99	451288	1636054	1137864
04061124.D	1103609-	104	406261	1315464*	1246819
04061125.D	1103609-	99	482159	1742657	1242546
04061126.D	1103609-	101	461078	1621683	1264660
04061127.D	1103609-	103	464599	1601510	1305601
04061128.D	TO15 RLV	100	470394	1736457	1220964

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 13:11:54 2011 GC
MS Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040711\04071110.D
Tune Time : 7 Apr 2011 7:47 pm

Daily Calibration File : C:\HPCHEM\1\DATA\040711\04071104.D

			990788	3451600	2490590
File	Sample	Surrogate Recovery %	Internal Standard Responses		
04071111.D	TO15 CCV	100	1022375	3533248	2508678
04071112.D	TO15 RLV	97	1000719	3579079	2505782
04071113.D	MBLK 040	95	1015179	3638460	2512213
04071114.D	1103609-	99	877657	3027658	2181448
04071115.D	1103609-	100	831234	2887905	2079508
04071116.D	1103609-	99	810575	2845154	2031838
04071117.D	1103609-	101	783679	2580164	1964618
04071118.D	1103609-	106	716359	2164284	2153703
04071119.D	1103609-	99	821553	2872800	2070863
04071120.D	1103609-	99	765524	2664208	2007712
04071121.D	1103609-	99	747919	2584456	1937321
04071122.D	1103609-	98	739101	2623945	1867025
04071123.D	1103609-	97	725433	2548277	1818631
04071124.D	1103609-	96	732883	2660509	1871720
04071125.D	1103609-	97	712678	2519279	1853633
04071126.D	1103609-	95	722926	2551996	1792980
04071127.D	1103609-	92	719757	2547060	1797124
04071128.D	1103609-	100	711096	2339644	1933631
04071129.D	1103609-	102	675577	2213968	2016921
04071130.D	1103609-	102	687058	2242485	2054743
04071131.D	CLEANING	93	786146	2859375	1999713
04071132.D	1103609-	112	742289	1915758	2203330
04071133.D	1103609-	99	839041	2835759	2095349
04071134.D	1103609-	97	815147	2767769	1931100
04071135.D	1103609-	99	743368	2486955	1833941
04071136.D	1103609-	95	712193	2438020	1711298
04071137.D	TO15 RLV	96	709861	2515033	1741590

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 15:57:45 2011 GC MS Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\040811\04081101.D
Tune Time : 8 Apr 2011 4:19 pm

Daily Calibration File : C:\HPCHEM\1\DATA\040711\04071104.D

			990788	3451600	2490590
File	Sample	Surrogate Recovery %	Internal Standard Responses		
04081102.D	TO15 CCV	97	777750	2717167	1892201
04081103.D	TO15 RLV	97	730806	2685821	1849067
04081104.D	MBLK 040	92	749110	2735105	1875923
04081105.D	1103609-	99	679891	2351513	1687417
04081106.D	1103609-	99	654222	2283700	1655643
04081107.D	1103609-	97	645116	2257385	1661905
04081108.D	1103609-	98	653875	2190810	1609244
04081109.D	1103609-	98	635874	2252357	1636162
04081110.D	1103609-	97	621982	2232572	1609341
04081111.D	1103609-	98	617006	2220269	1633388
04081112.D	1103609-	97	625438	2294502	1667905
04081114.D	1103609-	98	619134	2230978	1627775
04081115.D	1103609-	96	601709	2141120	1555462
04081116.D	1103609-	95	633753	2291245	1640442
04081117.D	1103609-	98	669648	2279120	1766657
04081118.D	1103609-	99	649453	2320350	1675356
04081119.D	1104103-	104	676576	2566631	1763331
04081120.D	1104103-	103	663454	2570679	1768684
04081121.D	1103609-	98	639450	2324253	1695765
04081122.D	TO15 RLV	96	639567	2372454	1633861

t - fails 24hr time check * - fails criteria

Created: Thu Apr 14 16:47:42 2011 GC MS Ins

RTI Laboratories

Run ID: VOA1_110411A **Run No.:** 39776

Analytical Run Date: 4/11/2011 **InstrumentID:** VOA1

Analyst: Michael Truchan **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ICAL 39774

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39776	4/11/2011 10:37:00 AM	Charles O'Bryan		
APH CCV 150cc vo	MA_APH	CCV	R39776	4/11/2011 11:19:00 AM	Charles O'Bryan		
APH RLVS 20cc vo	MA_APH	RLVS	R39776	4/11/2011 12:00:00 PM	Charles O'Bryan		
MBLK 4/11/11	MA_APH	MBLK	R39776	4/11/2011 12:44:00 PM	Charles O'Bryan		
1103389-025B	MA_APH	SAMP	R39776	4/11/2011 1:24:00 PM	Charles O'Bryan	H	
1103389-025BDUP	MA_APH	DUP	R39776	4/11/2011 2:05:00 PM	Charles O'Bryan	H	
1103389-026B	MA_APH	SAMP	R39776	4/11/2011 2:45:00 PM	Charles O'Bryan	H	
1103389-027B	MA_APH	SAMP	R39776	4/11/2011 3:25:00 PM	Charles O'Bryan	H	
1103389-028B	MA_APH	SAMP	R39776	4/11/2011 4:06:00 PM	Charles O'Bryan	H	
1103389-029B	MA_APH	SAMP	R39776	4/11/2011 4:47:00 PM	Charles O'Bryan	H	
1103389-030B	MA_APH	SAMP	R39776	4/11/2011 5:27:00 PM	Charles O'Bryan	H	
1103389-031B	MA_APH	SAMP	R39776	4/11/2011 6:08:00 PM	Charles O'Bryan	H	
1103389-032B	MA_APH	SAMP	R39776	4/11/2011 6:47:00 PM	Charles O'Bryan	H	
1103389-033B	MA_APH	SAMP	R39776	4/11/2011 7:28:00 PM	Charles O'Bryan	H	
1103389-034B	MA_APH	SAMP	R39776	4/11/2011 8:09:00 PM	Charles O'Bryan	H	
1103389-035B	MA_APH	SAMP	R39776	4/11/2011 8:49:00 PM	Charles O'Bryan	H	
1103389-038B	MA_APH	SAMP	R39776	4/11/2011 11:02:00 PM	Charles O'Bryan		
MBLK(2) 4/1/11	MA_APH	MBLK	R39776	4/11/2011 11:45:00 PM	Charles O'Bryan		
1103609-001A	MA_APH	SAMP	R39776	4/12/2011 12:26:00 AM	Charles O'Bryan	H	
1103609-001ADUP	MA_APH	DUP	R39776	4/12/2011 1:07:00 AM	Charles O'Bryan	H	
1103609-002A	MA_APH	SAMP	R39776	4/12/2011 1:48:00 AM	Charles O'Bryan	H	
1103609-003A	MA_APH	SAMP	R39776	4/12/2011 2:29:00 AM	Charles O'Bryan	H	
1103609-005A	MA_APH	SAMP	R39776	4/12/2011 3:52:00 AM	Charles O'Bryan	H	
1103609-006A	MA_APH	SAMP	R39776	4/12/2011 4:33:00 AM	Charles O'Bryan	H	
1103609-007A	MA_APH	SAMP	R39776	4/12/2011 5:14:00 AM	Charles O'Bryan	H	
APH RLVS 20cc vo	MA_APH	RLVS	R39776	4/12/2011 5:56:00 AM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110412A **Run No.:** 39777

Analytical Run Date: 4/12/2011 **InstrumentID:** VOA1

Analyst: Michael Truchan **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ICAL 39774

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39777	4/12/2011 10:08:00 AM	Celeste Hoitash		
APH CCV 150cc vo	MA_APH	CCV	R39777	4/12/2011 10:49:00 AM	Charles O'Bryan		
APH RLVS 20cc vo	MA_APH	RLVS	R39777	4/12/2011 11:29:00 AM	Charles O'Bryan		
MBLK 4/11/11	MA_APH	MBLK	R39777	4/12/2011 12:12:00 PM	Charles O'Bryan		
1103609-008A	MA_APH	SAMP	R39777	4/12/2011 1:22:00 PM	Charles O'Bryan	H	
1103609-008ADUP	MA_APH	DUP	R39777	4/12/2011 2:03:00 PM	Charles O'Bryan	H	
1103609-009A	MA_APH	SAMP	R39777	4/12/2011 2:44:00 PM	Charles O'Bryan	H	
1103609-010A	MA_APH	SAMP	R39777	4/12/2011 3:24:00 PM	Charles O'Bryan	H	
1103609-011A	MA_APH	SAMP	R39777	4/12/2011 4:05:00 PM	Charles O'Bryan	H	
1103609-012A	MA_APH	SAMP	R39777	4/12/2011 4:46:00 PM	Charles O'Bryan	H	
1103609-013A	MA_APH	SAMP	R39777	4/12/2011 5:27:00 PM	Charles O'Bryan	H	
1103609-014A	MA_APH	SAMP	R39777	4/12/2011 6:09:00 PM	Charles O'Bryan	H	
1103609-015A	MA_APH	SAMP	R39777	4/12/2011 6:54:00 PM	Charles O'Bryan	H	
1103609-016A	MA_APH	SAMP	R39777	4/12/2011 7:34:00 PM	Charles O'Bryan	H	
1103609-018A	MA_APH	SAMP	R39777	4/12/2011 8:55:00 PM	Charles O'Bryan	H	
1103609-019A	MA_APH	SAMP	R39777	4/12/2011 9:37:00 PM	Charles O'Bryan	H	
1103609-020A	MA_APH	SAMP	R39777	4/12/2011 10:18:00 PM	Charles O'Bryan	H	
1103609-021A	MA_APH	SAMP	R39777	4/12/2011 10:59:00 PM	Charles O'Bryan	H	
1103609-022A	MA_APH	SAMP	R39777	4/12/2011 11:39:00 PM	Charles O'Bryan	H	
1103609-023A	MA_APH	SAMP	R39777	4/13/2011 12:22:00 AM	Charles O'Bryan	H	
1103609-024A	MA_APH	SAMP	R39777	4/13/2011 1:06:00 AM	Celeste Hoitash	H	
1103609-025A	MA_APH	SAMP	R39777	4/13/2011 1:47:00 AM	Charles O'Bryan	H	
1103609-026A	MA_APH	SAMP	R39777	4/13/2011 2:28:00 AM	Charles O'Bryan	H	
1103609-027A	MA_APH	SAMP	R39777	4/13/2011 3:09:00 AM	Charles O'Bryan	H	
APH RLVS 20cc vo	MA_APH	RLVS	R39777	4/13/2011 9:04:00 AM	Charles O'Bryan		

RTI Laboratories

Run ID: VOA1_110413A **Run No.:** 39813

Analytical Run Date: 4/13/2011 **InstrumentID:** VOA1

Analyst: Michael Truchan **Column:**

Calibration ID: **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

Run Comments: ch rev 4/15/11

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 50cc voa020211c	BFB_TUNE	TUNE	R39813	4/13/2011 3:47:00 PM	Charles O'Bryan		
APH CCV 150cc vo	MA_APH	CCV	R39813	4/13/2011 4:29:00 PM	Charles O'Bryan		
APH RLVS 20cc vo	MA_APH	RLVS	R39813	4/13/2011 5:11:00 PM	Charles O'Bryan		
MBLK 4/13/11	MA_APH	MBLK	R39813	4/13/2011 5:55:00 PM	Charles O'Bryan		
1103609-004A	MA_APH	SAMP	R39813	4/13/2011 6:37:00 PM	Charles O'Bryan	H	
1103609-004ADUP	MA_APH	DUP	R39813	4/13/2011 7:18:00 PM	Charles O'Bryan	H	
1103609-036B	MA_APH	SAMP	R39813	4/14/2011 11:11:00 AM	Charles O'Bryan	H	
1103609-017A	MA_APH	SAMP	R39813	4/14/2011 12:35:00 PM	Charles O'Bryan	H	
1103609-037B	MA_APH	SAMP	R39813	4/14/2011 2:00:00 PM	Charles O'Bryan	H	
APH RLVS 20cc vo	MA_APH	RLVS	R39813	4/14/2011 3:46:00 PM	Charles O'Bryan		

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39776

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755933	BFB 50cc voa020211c	BFB_TUNE	TUNE	\\I\DATA\041111\4/11/2011 10:37:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.2	0.2		0	0	0	0	0	0	0%	0	2	0%	
174	M		89.1	89.1		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.5	7.5		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.5	97.5		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.6	6.6		0	0	0	0	0	0	0%	5	9	0%	
50	M		18.5	18.5		0	0	0	0	0	0	0%	8	40	0%	
75	M		48.5	48.5		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		7	7		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755938	APH CCV 150cc vo	MA_APH	CCV	\\I\DATA\041111\4/11/2011 11:19:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	207.54	207.54		222	0	0	0	0	0	93%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	206.45	206.45		185	0	0	0	0	0	112%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	303.21	303.21		281	0	0	0	0	0	108%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.92	89.92		89.5	0	0	0	0	0	100%	70	130	0%	

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Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755939	APH RLVS 20cc vo	MA_APH	RLVS	\I\DATA\041111\4/11/2011 12:00:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	145.48	145.48		117	0	0	0	0	0	124%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	172.98	172.98		133	0	0	0	0	0	130%	70	130	0%	S
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	302.45	302.45		249	0	0	0	0	0	121%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.33	89.33		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755878	MBLK 4/11/11	MA_APH	MBLK	\I\DATA\041111\4/11/2011 12:44:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	110.15	110.15		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-6.03	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	167.47	167.47		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	64.28	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	64.28	64.28		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	116.18	116.18		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	103.19	103.19		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.2	89.2		89.5	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755879	1103389-025B	MA_APH	SAMP	\1\DATA\041111\4/11/2011 1:24:0		80000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	417.27	33381600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	244.3	19544000		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.73	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	163.85	13108000		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	25.77	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	29.5	2360000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	172.97	13837600		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	134.35	10748000		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.36	7388800		7160000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755880	1103389-025BDUP	MA_APH	DUP	\1\DATA\041111\4/11/2011 2:05:0		80000	R39776		0	755879	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	359.41	28752800		0	0	33381600	0	0	0	0%	0	0	15%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	211.27	16901600		0	0	19544000	9360000	9360000	0	0%	0	0	15%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.17	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	134.92	10793600		0	0	13108000	0	0	0	0%	0	0	19%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	22.01	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	25.18	2014400		0	0	2360000	0	0	0	0%	0	0	16%	B
non C5-C8 - TOTAL	A	µg/m³	148.14	11851200		0	0	13837600	0	0	0	0%	0	0	15%	B
non C9-C12 - TOTAL	A	µg/m³	109.74	8779200		0	0	10748000	0	0	0	0%	0	0	20%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	1000000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.03	7282400		7160000	0	7388800	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755891	1103389-038B	MA_APH	SAMP	\I\DATA\041111\4/11/2011 11:02:		40	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	344.7	13788		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	196.35	7854		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.11	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	154.88	6195.2		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	23.36	0		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	27.47	1098.8		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	148.35	5934		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	127.41	5096.4		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.8	3632		3580	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755892	MBLK(2) 4/1/11	MA_APH	MBLK	\I\DATA\041111\4/11/2011 11:45:		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	98.08	98.08		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-12.23	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.22	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	157.12	157.12		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	29.02	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	33.24	33.24		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	110.31	110.31		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	123.88	123.88		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	87.95	87.95		89.5	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755893	1103609-001A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041111\4/12/2011 12:26:		4000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	716.59	2866360		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	509.55	2038200		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.79	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	171.73	686920		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	29.79	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	34.58	138320		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	207.04	828160		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	137.15	548600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.91	383640		358000	0	0	0	0	0	107%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755894	1103609-001ADUP	MA_APH	DUP	\I\DATA\041111\4/12/2011 1:07:0		4000	R39776		0	755893	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	709.04	2836160		0	0	2866360	0	0	0	0%	0	0	1%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	501.49	2005960		0	0	2038200	468000	468000	0	0%	0	0	2%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.75	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	172.96	691840		0	0	686920	0	0	0	0%	0	0	1%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	30.61	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	35.36	141440		0	0	138320	0	0	0	0%	0	0	2%	B
non C5-C8 - TOTAL	A	µg/m³	207.55	830200		0	0	828160	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	137.6	550400		0	0	548600	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	50000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	95.04	380160		358000	0	383640	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755895	1103609-002A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041111\4/12/2011 1:48:0		40	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1477.55	59102		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1209.65	48386		0	0	0	4680	4680	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.14	0		0	0	0	5320	5320	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	291.99	11679.6		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	105.87	0		0	0	0	9960	9960	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	116.01	4640.4		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	267.9	10716		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	175.98	7039.2		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500		500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.95	3678		3580	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755896	1103609-003A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041111\4/12/2011 2:29:0		160000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1112.89	178062400		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	882.51	141201600		0	0	0	18720000	18720000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.29	0		0	0	0	21280000	21280000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	182.46	29193600		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	33.3	0		0	0	0	39840000	39840000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	38.59	6174400		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	230.38	36860800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	143.87	23019200		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755896	1103609-003A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041111\4/12/2011 2:29:0		160000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	95.19	15230400		14320000	0	0	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755897	1103609-005A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041111\4/12/2011 3:52:0		40000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	985.35	39414000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	768.28	30731200		0	0	0	4680000	4680000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.8	0		0	0	0	5320000	5320000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	211.96	8478400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	53.25	0		0	0	0	9960000	9960000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	59.05	2362000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	217.07	8682800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	152.91	6116400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	96.7	3868000		3580000	0	0	0	0	0	108%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755898	1103609-006A (Container-01 of 01)	MA_APH	SAMP	\1\DATA\041111\4/12/2011 4:33:0		4000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	704.37	2817480		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	447.84	1791360		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.76	0		0	0	0	532000	532000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755898	1103609-006A (Container-01 of 01)	MA_APH	SAMP	\\1\DATA\041111\4/12/2011 4:33:0		4000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic	A	µg/m³	347.35	1389400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	133.74	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	144.5	578000		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	256.53	1026120		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	202.85	811400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.11	368440		358000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755899	1103609-007A (Container-01 of 01)	MA_APH	SAMP	\\1\DATA\041111\4/12/2011 5:14:0		8000	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	372.51	2980080		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	206.97	1655760		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.46	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	207.15	1657200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	50.45	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	56.91	455280		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	165.54	1324320		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	150.24	1201920		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	93.87	750960		716000	0	0	0	0	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755941	APH RLVS 20cc vo	MA_APH	RLVS	\\1\DATA\041111\4/12/2011 5:56:0		1	R39776		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	144	144		117	0	0	0	0	0	123%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	158.41	158.41		133	0	0	0	0	0	119%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	276.78	276.78		249	0	0	0	0	0	111%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.54	88.54		89.5	0	0	0	0	0	99%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39777

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756993	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\041211	4/12/2011 10:08:	1	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.3	0.3		0	0	0	0	0	0	0%	0	2	0%	
174	M		91.6	91.6		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.3	7.3		0	0	0	0	0	0	0%	4	9	0%	
176	M		98.4	98.4		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		18.7	18.7		0	0	0	0	0	0	0%	8	40	0%	
75	M		47.9	47.9		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755971	APH CCV 150cc vo	MA_APH	CCV	\I\DATA\041211	4/12/2011 10:49:	1	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	204.79	204.79		222	0	0	0	0	0	92%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	222.65	222.65		185	0	0	0	0	0	120%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	317.73	317.73		281	0	0	0	0	0	113%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.33	88.33		89.5	0	0	0	0	0	99%	70	130	0%	

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755972	APH RLVS 20cc vo	MA_APH	RLVS	\I\DATA\041211\4/12/2011 11:29:		1	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	137.37	137.37		117	0	0	0	0	0	117%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	176.66	176.66		133	0	0	0	0	0	133%	70	130	0%	S
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	300.51	300.51		249	0	0	0	0	0	121%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.17	88.17		89.5	0	0	0	0	0	99%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755946	MBLK 4/11/11	MA_APH	MBLK	\I\DATA\041211\4/12/2011 12:12:		1	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	92.55	92.55		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.51	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	147.58	147.58		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	107.7	107.7		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	117.77	117.77		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	87.37	87.37		89.5	0	0	0	0	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755947	1103609-008A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 1:22:0	80000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	777.77	62221600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	574.48	45958400		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.99	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	153.11	12248800		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	28.37	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	32.36	2588800		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	203.29	16263200		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	120.75	9660000		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	93.52	7481600		7160000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755948	1103609-008ADUP	MA_APH	DUP	\I\DATA\041211\	4/12/2011 2:03:0	80000	R39777		0	755947	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	740.51	59240800		0	0	62221600	0	0	0	0%	0	0	5%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	546.9	43752000		0	0	45958400	9360000	9360000	0	0%	0	0	5%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.53	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	145.56	11644800		0	0	12248800	0	0	0	0%	0	0	5%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	26.87	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	30.4	2432000		0	0	2588800	0	0	0	0%	0	0	6%	
non C5-C8 - TOTAL	A	µg/m³	193.61	15488800		0	0	16263200	0	0	0	0%	0	0	5%	B
non C9-C12 - TOTAL	A	µg/m³	115.16	9212800		0	0	9660000	0	0	0	0%	0	0	5%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	1000000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.83	7346400		7160000	0	7481600	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755949	1103609-009A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 2:44:0	80000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	707.12	56569600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	510.18	40814400		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.36	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	143.56	11484800		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	25.54	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	28.9	2312000		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	196.94	15755200		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	114.66	9172800		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.17	7373600		7160000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755950	1103609-010A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 3:24:0	80000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1021.91	81752800		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	800.74	64059200		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.41	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	181.33	14506400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	44.15	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	49.56	3964800		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	221.17	17693600		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	131.77	10541600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755950	1103609-010A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 3:24:0	80000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	92.85	7428000		7160000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755951	1103609-011A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 4:05:0	8000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	757.71	6061680		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	547.11	4376880		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	15.95	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	318.73	2549840		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	128.62	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	144.57	1156560		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	210.6	1684800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	174.16	1393280		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.23	721840		716000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755952	1103609-012A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 4:46:0	4000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	514.79	2059160		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	320.2	1280800		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	13.53	0		0	0	0	532000	532000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755952	1103609-012A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 4:46:0	4000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic	A	µg/m³	265.89	1063560		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	93.79	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	107.32	429280		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	194.59	778360		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	158.57	634280		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.3	369200		358000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755953	1103609-013A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 5:27:0	160000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1158.42	185347200		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	931.64	149062400		0	0	0	18720000	18720000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.56	0		0	0	0	21280000	21280000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	160.5	25680000		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	31.7	0		0	0	0	39840000	39840000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	35.26	5641600		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	226.78	36284800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	125.24	20038400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.58	14812800		14320000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755954	1103609-014A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\4/12/2011 6:09:0		40000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	2586.69	103467600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	2149.07	85962800		0	0	0	4680000	4680000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.44	0		0	0	0	5320000	5320000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	254.25	10170000		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	93.47	0		0	0	0	9960000	9960000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	98.91	3956400		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	437.62	17504800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	155.34	6213600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	94.36	3774400		3580000	0	0	0	0	0	105%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755955	1103609-015A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\4/12/2011 6:54:0		4000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	908.49	3633960		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	647.74	2590960		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.62	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	194.08	776320		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	44.52	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	49.14	196560		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	260.75	1043000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	144.94	579760		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755955	1103609-015A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 6:54:0	4000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	94.6	378400		358000	0	0	0	0	0	106%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755956	1103609-016A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 7:34:0	16000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	774.79	12396640		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	525.83	8413280		0	0	0	1872000	1872000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	18.25	0		0	0	0	2128000	2128000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	394.24	6307840		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	155.88	0		0	0	0	3984000	3984000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	174.13	2786080		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	248.96	3983360		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	220.11	3521760		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	200000		200000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.9	1438400		1432000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755957	1103609-018A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 8:55:0	40000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	610.64	24425600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	437.94	17517600		0	0	0	4680000	4680000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.96	0		0	0	0	5320000	5320000	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755957	1103609-018A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 8:55:0	40000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic	A	µg/m³	164.51	6580400		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	28.38	0		0	0	0	9960000	9960000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	32.34	1293600		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	172.7	6908000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	132.17	5286800		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	500000		500000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	93.16	3726400		3580000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755958	1103609-019A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 9:37:0	8000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	374.67	2997360		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	224.55	1796400		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.16	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	196.04	1568320		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	48.41	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	54.57	436560		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	150.12	1200960		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	141.47	1131760		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.46	731680		716000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755959	1103609-020A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 10:18:	8000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	683.04	5464320		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	491.04	3928320		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.63	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	214.79	1718320		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	56.94	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	63.57	508560		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	192	1536000		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	151.22	1209760		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.66	717280		716000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755960	1103609-021A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\	4/12/2011 10:59:	8000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	315.04	2520320		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	170.57	1364560		0	0	0	936000	936000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.98	0		0	0	0	1064000	1064000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	198.37	1586960		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	46.82	0		0	0	0	1992000	1992000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	52.8	422400		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	144.47	1155760		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	145.57	1164560		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	100000		100000	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755960	1103609-021A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 10:59:	8000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	91.89	735120		716000	0	0	0	0	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755961	1103609-022A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/12/2011 11:39:	16000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1179.78	18876480		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	971.29	15540640		0	0	0	1872000	1872000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.27	0		0	0	0	2128000	2128000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	183.01	2928160		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	38.51	0		0	0	0	3984000	3984000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	43.78	700480		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	208.49	3335840		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	139.23	2227680		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	200000		200000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.99	1455840		1432000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755962	1103609-023A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/13/2011 12:22:	1600	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	390.32	624512		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	218.34	349344		0	0	0	187200	187200	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	8.51	0		0	0	0	212800	212800	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755962	1103609-023A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/13/2011 12:22:	1600	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic	A	µg/m³	231	369600		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	63.42	0		0	0	0	398400	398400	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	71.93	115088		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	171.98	275168		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	159.07	254512		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	20000		20000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.73	148368		143200	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
757001	1103609-024A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/13/2011 1:06:0	400	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	235.78	94312		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	93.63	37452		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.46	2184		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	182.14	72856		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	44.22	17688		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	49.68	19872		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	142.15	56860		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	132.46	52984		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.88	36352		35800	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755964	1103609-025A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/13/2011 1:47:0	80000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1003.3	80264000		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	779.94	62395200		0	0	0	9360000	9360000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.88	0		0	0	0	10640000	10640000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	161.81	12944800		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	28.31	0		0	0	0	19920000	19920000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	32.19	2575200		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	223.36	17868800		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	129.62	10369600		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	1000000		1000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.19	7135200		7160000	0	0	0	0	0	100%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755965	1103609-026A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211	4/13/2011 2:28:0	160000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	866.68	138668800		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	635.02	101603200		0	0	0	18720000	18720000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.04	0		0	0	0	21280000	21280000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	172.27	27563200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	31.1	0		0	0	0	39840000	39840000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	35.14	5622400		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	231.66	37065600		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	137.13	21940800		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755965	1103609-026A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\4/13/2011 2:28:0		160000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	90.02	14403200		14320000	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755966	1103609-027A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041211\4/13/2011 3:09:0		160000	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	940.66	150505600		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	715.72	114515200		0	0	0	18720000	18720000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.18	0		0	0	0	21280000	21280000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	173.17	27707200		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	31.46	0		0	0	0	39840000	39840000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	35.64	5702400		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	224.94	35990400		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	137.53	22004800		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	2000000		2000000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.07	14571200		14320000	0	0	0	0	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755973	APH RLVS 20cc vo	MA_APH	RLVS	\I\DATA\041211\4/13/2011 9:04:0		1	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	143.86	143.86		117	0	0	0	0	0	123%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	164	164		133	0	0	0	0	0	123%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	0	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
755973	APH RLVS 20cc vo	MA_APH	RLVS	\I\DATA\041211\4/13/2011 9:04:0		1	R39777		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	290.08	290.08		249	0	0	0	0	0	116%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	0	0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.99	88.99		89.5	0	0	0	0	0	99%	70	130	0%	

RTI Laboratories

ANALYTICAL RUN Summary

15-Apr-11

RunNo 39813

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756992	BFB 50cc voa020211c	BFB_TUNE	TUNE	\I\DATA\041311'4/13/2011 3:47:0		1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.7	0.7		0	0	0	0	0	0	0%	0	2	0%	
174	M		90.6	90.6		0	0	0	0	0	0	0%	50	120	0%	
175	M		7.5	7.5		0	0	0	0	0	0	0%	4	9	0%	
176	M		97.2	97.2		0	0	0	0	0	0	0%	93	101	0%	
177	M		6.7	6.7		0	0	0	0	0	0	0%	5	9	0%	
50	M		18.2	18.2		0	0	0	0	0	0	0%	8	40	0%	
75	M		48.3	48.3		0	0	0	0	0	0	0%	30	66	0%	
95	M		100	100		0	0	0	0	0	0	0%	100	100	0%	
96	M		6.8	6.8		0	0	0	0	0	0	0%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756903	APH CCV 150cc vo	MA_APH	CCV	\I\DATA\041311'4/13/2011 4:29:0		1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	190.11	190.11		222	0	0	0	0	0	86%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	197.18	197.18		185	0	0	0	0	0	107%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	282.56	282.56		281	0	0	0	0	0	101%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	87.09	87.09		89.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756904	APH RLVS 20cc vo	MA_APH	RLVS	\\1\DATA\041311	4/13/2011 5:11:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	121.54	121.54		117	0	0	0	0	0	104%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	145.65	145.65		133	0	0	0	0	0	110%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	260.87	260.87		249	0	0	0	0	0	105%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	86.93	86.93		89.5	0	0	0	0	0	97%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756896	MBLK 4/13/11	MA_APH	MBLK	\\1\DATA\041311	4/13/2011 5:55:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	92.06	92.06		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	-18.54	0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	3.3	0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	149.75	149.75		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	24.51	0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	27.81	27.81		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³	110.6	110.6		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³	121.94	121.94		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	84.8	84.8		89.5	0	0	0	0	0	95%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756897	1103609-004A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041311	4/13/2011 6:37:0	400	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	2534.01	1013604		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	2131.94	852776		0	0	0	46800	46800	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.46	0		0	0	0	53200	53200	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	340.83	136332		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	124.46	0		0	0	0	99600	99600	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	134.92	53968		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	402.07	160828		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	205.91	82364		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.04	36016		35800	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756898	1103609-004ADUP	MA_APH	DUP	\I\DATA\041311	4/13/2011 7:18:0	400	R39813		0	756897	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	2518.06	1007224		0	0	1013604	0	0	0	0%	0	0	1%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	2115.62	846248		0	0	852776	46800	46800	0	0%	0	0	1%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	10.75	0		0	0	0	53200	53200	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	349.46	139784		0	0	136332	0	0	0	0%	0	0	3%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	126.87	0		0	0	0	99600	99600	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	137.62	55048		0	0	53968	0	0	0	0%	0	0	2%	B
non C5-C8 - TOTAL	A	µg/m³	402.44	160976		0	0	160828	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	211.84	84736		0	0	82364	0	0	0	0%	0	0	3%	B
Chlorobenzene-d5	I	ppbv	12.5	5000		5000	0	5000	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.34	36136		35800	0	36016	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756899	1103389-036B (Container-1 of 1)	MA_APH	SAMP	\I\DATA\041311\	4/14/2011 11:11:	1000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	331.16	331160		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	168.02	168020		0	0	0	117000	117000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	4.89	0		0	0	0	133000	133000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	234.19	234190		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	51.58	0		0	0	0	249000	249000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	56.47	56470		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	163.14	163140		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	177.72	177720		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	12500		12500	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	90.01	90010		89500	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756900	1103609-017A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041311\	4/14/2011 12:35:	1000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	426.24	426240		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	211.85	211850		0	0	0	117000	117000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	6.72	0		0	0	0	133000	133000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	272.9	272900		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	54.5	0		0	0	0	249000	249000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	61.22	61220		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	214.39	214390		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	211.68	211680		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	12500		12500	0	0	0	0	0	100%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756900	1103609-017A (Container-01 of 01)	MA_APH	SAMP	\I\DATA\041311	4/14/2011 12:35:	1000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
4-Bromofluorobenzene	S	µg/m³	93.01	93010		89500	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756901	1103389-037B (Container-1 of 1)	MA_APH	SAMP	\I\DATA\041311	4/14/2011 2:00:0	4000	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³	1501.63	6006520		0	0	0	0	0	0	0%	0	0	0%	B
C5-C8 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³	1275.11	5100440		0	0	0	468000	468000	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³	5.38	0		0	0	0	532000	532000	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³	231.78	927120		0	0	0	0	0	0	0%	0	0	0%	B
C9-C12 Aliphatic HC - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³	44.55	0		0	0	0	996000	996000	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³	49.93	199720		0	0	0	0	0	0	0%	0	0	0%	B
non C5-C8 - TOTAL	A	µg/m³	226.52	906080		0	0	0	0	0	0	0%	0	0	0%	B
non C9-C12 - TOTAL	A	µg/m³	181.85	727400		0	0	0	0	0	0	0%	0	0	0%	B
Chlorobenzene-d5	I	ppbv	12.5	50000		50000	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	92.95	371800		358000	0	0	0	0	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756905	APH RLVS 20cc vo	MA_APH	RLVS	\I\DATA\041311	4/14/2011 3:46:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	155.36	155.36		117	0	0	0	0	0	133%	70	130	0%	S
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	117	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	179.16	179.16		133	0	0	0	0	0	135%	70	130	0%	S
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	133	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
756905	APH RLVS 20cc vo	MA_APH	RLVS	\1\DATA\041311	4/14/2011 3:46:0	1	R39813		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	322.01	322.01		249	0	0	0	0	0	129%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	249	249	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	91.67	91.67		89.5	0	0	0	0	0	102%	70	130	0%	

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755878	MBLK 4/11/11	MA_APH	MBLK	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.2	99.66%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755879	1103389-025B	MA_APH	SAMP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7388800	103.20%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755880	1103389-025BDUP	MA_APH	DUP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7282400	101.71%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755881	1103389-026B	MA_APH	SAMP	R39776	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	14411200	100.64%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755882	1103389-027B	MA_APH	SAMP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7050400	98.47%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755883	1103389-028B	MA_APH	SAMP	R39776	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	6943200	96.97%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755884	1103389-029B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	697520	97.42%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755885	1103389-030B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	721440	100.76%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755886	1103389-031B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	712720	99.54%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755887	1103389-032B	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	761040	106.29%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755888	1103389-033B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3876	108.27%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755889	1103389-034B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3902.8	109.02%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755890	1103389-035B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3929.6	109.77%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755891	1103389-038B	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3632	101.45%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755892	MBLK(2) 4/1/11	MA_APH	MBLK	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	87.95	98.27%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755893	1103609-001A	MA_APH	SAMP	R39776	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	383640	107.16%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755894	1103609-001ADUP	MA_APH	DUP	R39776	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	380160	106.19%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755895	1103609-002A	MA_APH	SAMP	R39776	40

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580	3678	102.74%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755896	1103609-003A	MA_APH	SAMP	R39776	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	15230400	106.36%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755897	1103609-005A	MA_APH	SAMP	R39776	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580000	3868000	108.04%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755898	1103609-006A	MA_APH	SAMP	R39776	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	368440	102.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755899	1103609-007A	MA_APH	SAMP	R39776	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	750960	104.88%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755938	APH CCV 150cc vo	MA_APH	CCV	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.92	100.47%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755939	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	89.33	99.81%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755941	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.54	98.93%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110412A **Analyst:** Michael Truchan

RunNo: 39777

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755946	MBLK 4/11/11	MA_APH	MBLK	R39777	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	87.37	97.62%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755947	1103609-008A	MA_APH	SAMP	R39777	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7481600	104.49%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755948	1103609-008ADUP	MA_APH	DUP	R39777	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7346400	102.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755949	1103609-009A	MA_APH	SAMP	R39777	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7373600	102.98%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755950	1103609-010A	MA_APH	SAMP	R39777	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7428000	103.74%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755951	1103609-011A	MA_APH	SAMP	R39777	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	721840	100.82%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755952	1103609-012A	MA_APH	SAMP	R39777	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	369200	103.13%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755953	1103609-013A	MA_APH	SAMP	R39777	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	14812800	103.44%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755954	1103609-014A	MA_APH	SAMP	R39777	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580000	3774400	105.43%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110412A **Analyst:** Michael Truchan

RunNo: 39777

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755955	1103609-015A	MA_APH	SAMP	R39777	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	378400	105.70%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755956	1103609-016A	MA_APH	SAMP	R39777	16000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1432000	1438400	100.45%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755957	1103609-018A	MA_APH	SAMP	R39777	40000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	3580000	3726400	104.09%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755958	1103609-019A	MA_APH	SAMP	R39777	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	731680	102.19%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755959	1103609-020A	MA_APH	SAMP	R39777	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	717280	100.18%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755960	1103609-021A	MA_APH	SAMP	R39777	8000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	716000	735120	102.67%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755961	1103609-022A	MA_APH	SAMP	R39777	16000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	1432000	1455840	101.66%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755962	1103609-023A	MA_APH	SAMP	R39777	1600

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	143200	148368	103.61%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755964	1103609-025A	MA_APH	SAMP	R39777	80000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	7160000	7135200	99.65%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110412A **Analyst:** Michael Truchan

RunNo: 39777

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
755965	1103609-026A	MA_APH	SAMP	R39777	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	14403200	100.58%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755966	1103609-027A	MA_APH	SAMP	R39777	160000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	14320000	14571200	101.75%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755971	APH CCV 150cc vo	MA_APH	CCV	R39777	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.33	98.69%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755972	APH RLVS 20cc vo	MA_APH	RLVS	R39777	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.17	98.51%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
755973	APH RLVS 20cc vo	MA_APH	RLVS	R39777	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	88.99	99.43%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
757001	1103609-024A	MA_APH	SAMP	R39777	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	35800	36352	101.54%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110413A **Analyst:** Michael Truchan

RunNo: 39813

Surrogates

SeqNo	SampID	TestCode	SampType	BatchID	DF
756896	MBLK 4/13/11	MA_APH	MBLK	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	84.8	94.75%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756897	1103609-004A	MA_APH	SAMP	R39813	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	35800	36016	100.60%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756898	1103609-004ADUP	MA_APH	DUP	R39813	400

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	35800	36136	100.94%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756899	1103389-036B	MA_APH	SAMP	R39813	1000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89500	90010	100.57%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756900	1103609-017A	MA_APH	SAMP	R39813	1000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89500	93010	103.92%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756901	1103389-037B	MA_APH	SAMP	R39813	4000

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	358000	371800	103.85%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756903	APH CCV 150cc vo	MA_APH	CCV	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	87.09	97.31%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756904	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	86.93	97.13%	70	130		

Total Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF
756905	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1

Rpt	Analyte:	SpkVal:	CalcVal:	REC:	LowLimit:	HighLimit:	Qual:	Out:
☑	4-Bromofluorobenzene	89.5	91.67	102.42%	70	130		

Total Out: 0

Spikes and Surrogates Report

RunID: VOA1_110411A **Analyst:** Michael Truchan

RunNo: 39776

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755938	APH CCV 150cc vo	MA_APH	CCV	R39776	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	281	303.21	107.90%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	185	206.45	111.59%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	222	207.54	93.49%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755939	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	302.45	121.47%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	172.98	130.06%	70	130	*	S
☑	C5-C8 Aliphatic HC - TOTAL	117	145.48	124.34%	70	130		

Total Recoveries Out: 1

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755941	APH RLVS 20cc vo	MA_APH	RLVS	R39776	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	276.78	111.16%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	158.41	119.11%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	144	123.08%	70	130		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: VOA1_110412A **Analyst:** Michael Truchan

RunNo: 39777

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755971	APH CCV 150cc vo	MA_APH	CCV	R39777	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	281	317.73	113.07%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	185	222.65	120.35%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	222	204.79	92.25%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755972	APH RLVS 20cc vo	MA_APH	RLVS	R39777	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	300.51	120.69%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	176.66	132.83%	70	130	*	S
☑	C5-C8 Aliphatic HC - TOTAL	117	137.37	117.41%	70	130		

Total Recoveries Out: 1

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
755973	APH RLVS 20cc vo	MA_APH	RLVS	R39777	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	290.08	116.50%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	164	123.31%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	143.86	122.96%	70	130		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: VOA1_110413A **Analyst:** Michael Truchan

RunNo: 39813

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756903	APH CCV 150cc vo	MA_APH	CCV	R39813	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	281	282.56	100.56%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	185	197.18	106.58%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	222	190.11	85.64%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756904	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	260.87	104.77%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	145.65	109.51%	70	130		
☑	C5-C8 Aliphatic HC - TOTAL	117	121.54	103.88%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
756905	APH RLVS 20cc vo	MA_APH	RLVS	R39813	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	C9-C12 Aliphatic HC - TOTAL	249	322.01	129.32%	70	130		
☑	C9-C10 Aromatic HC - TOTAL	133	179.16	134.71%	70	130	*	S
☑	C5-C8 Aliphatic HC - TOTAL	117	155.36	132.79%	70	130	*	S

Total Recoveries Out: 2

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103389-025B	755879	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 1:24:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7388800	0	0		µg/m³
☑	C5-C8 Aliphatic	33381600	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	19544000	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	13108000	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2360000	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	13837600	0	0		µg/m³
☑	non C9-C12 - TOTAL	10748000	0	0		µg/m³

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103389-025BDUP	755880	MA_APH	DUP	VOA1_110411A	R39776	4/11/2011 2:05:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7282400	0	0		µg/m³
☑	C5-C8 Aliphatic	28752800	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	16901600	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	10793600	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2014400	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	11851200	0	0		µg/m³
☑	non C9-C12 - TOTAL	8779200	0	0		µg/m³

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103389-026B	755881	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 2:45:00 PM	160000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	14411200	0	0		µg/m³
☑	C5-C8 Aliphatic	158598400	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	123609600	18720000	18720000		µg/m³
☑	C9-C12 Aliphatic	22635200	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	4566400	0	0		µg/m³
☑	Chlorobenzene-d5	2000000	0	0		ppbv
☑	non C5-C8 - TOTAL	34988800	0	0		µg/m³
☑	non C9-C12 - TOTAL	18068800	0	0		µg/m³

1103389-027B	755882	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 3:25:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7050400	0	0		µg/m³
☐	C5-C8 Aliphatic	95796000	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	75231200	9360000	9360000		µg/m³
☐	C9-C12 Aliphatic	12738400	0	0		µg/m³
☐	C9-C12 Aliphatic-Aromatic Hydrocarbons	2675200	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☐	non C5-C8 - TOTAL	20564800	0	0		µg/m³
☐	non C9-C12 - TOTAL	10063200	0	0		µg/m³

1103389-028B	755883	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 4:06:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	6943200	0	0		µg/m³
☑	C5-C8 Aliphatic	31404000	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	18372800	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	11258400	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2178400	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	13031200	0	0		µg/m³
☑	non C9-C12 - TOTAL	9080000	0	0		µg/m³

1103389-029B	755884	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 4:47:00 PM	8000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39776

SeqNo: 755878 TestCode: MA_APH

Analysis Date: 4/11/2011 12:44:00 PM RunID: VOA1_110411A

Analyst: Michael Truchan InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	697520	0	0		µg/m³
☑	C5-C8 Aliphatic	2331760	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1218880	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1206960	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	272800	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1112880	0	0		µg/m³
☑	non C9-C12 - TOTAL	934160	0	0		µg/m³

1103389-030B	755885	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 5:27:00 PM	8000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	721440	0	0		µg/m³
☑	C5-C8 Aliphatic	4809680	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	3448480	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1323280	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	320720	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1361200	0	0		µg/m³
☑	non C9-C12 - TOTAL	1002560	0	0		µg/m³

1103389-031B	755886	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 6:08:00 PM	8000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	712720	0	0		µg/m³
☑	C5-C8 Aliphatic	3055200	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1870640	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1299200	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	300240	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1184560	0	0		µg/m³
☑	non C9-C12 - TOTAL	998960	0	0		µg/m³

1103389-032B	755887	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 6:47:00 PM	8000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	761040	0	0		µg/m³
☑	C5-C8 Aliphatic	6517520	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	4903920	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1463200	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	333840	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1613600	0	0		µg/m³
☑	non C9-C12 - TOTAL	1129360	0	0		µg/m³

1103389-033B	755888	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 7:28:00 PM	40

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3876	0	0		µg/m³
☑	C5-C8 Aliphatic	32756	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	26653.2	4680	4680		µg/m³
☑	C9-C12 Aliphatic	31746.8	0	0		µg/m³
☑	C9-C12 Aliphatic Hydrocarbons	25239.6	9960	9960		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	25423.2	0	0		µg/m³
☑	Chlorobenzene-d5	500	0	0		ppbv
☑	non C5-C8 - TOTAL	6102.8	0	0		µg/m³
☑	non C9-C12 - TOTAL	6323.6	0	0		µg/m³

1103389-034B	755889	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 8:09:00 PM	40

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3902.8	0	0		µg/m³
☑	C5-C8 Aliphatic	51771.6	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	45075.2	4680	4680		µg/m³
☑	C9-C12 Aliphatic	24005.6	0	0		µg/m³
☑	C9-C12 Aliphatic Hydrocarbons	17754	9960	9960		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	17930	0	0		µg/m³
☑	Chlorobenzene-d5	500	0	0		ppbv
☑	non C5-C8 - TOTAL	6696.4	0	0		µg/m³
☑	non C9-C12 - TOTAL	6075.6	0	0		µg/m³

1103389-035B	755890	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 8:49:00 PM	40

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39776

SeqNo: 755878 **TestCode:** MA_APH

Analysis Date: 4/11/2011 12:44:00 PM **RunID:** VOA1_110411A

Analyst: Michael Truchan **InstrumentID:** VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3929.6	0	0		µg/m³
☑	C5-C8 Aliphatic	61523.2	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	47968	4680	4680		µg/m³
☑	C9-C12 Aliphatic	31425.6	0	0		µg/m³
☑	C9-C12 Aliphatic Hydrocarbons	24788	9960	9960		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	24958.4	0	0		µg/m³
☑	Chlorobenzene-d5	500	0	0		ppbv
☑	non C5-C8 - TOTAL	13555.2	0	0		µg/m³
☑	non C9-C12 - TOTAL	6467.2	0	0		µg/m³

1103389-038B	755891	MA_APH	SAMP	VOA1_110411A	R39776	4/11/2011 11:02:00 PM	40

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3632	0	0		µg/m³
☑	C5-C8 Aliphatic	13788	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	7854	4680	4680		µg/m³
☑	C9-C12 Aliphatic	6195.2	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	1098.8	0	0		µg/m³
☑	Chlorobenzene-d5	500	0	0		ppbv
☑	non C5-C8 - TOTAL	5934	0	0		µg/m³
☑	non C9-C12 - TOTAL	5096.4	0	0		µg/m³

1103609-001A	755893	MA_APH	SAMP	VOA1_110411A	R39776	4/12/2011 12:26:00 AM	4000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	383640	0	0		µg/m³
☑	C5-C8 Aliphatic	2866360	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	2038200	468000	468000		µg/m³
☑	C9-C12 Aliphatic	686920	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	138320	0	0		µg/m³
☑	Chlorobenzene-d5	50000	0	0		ppbv
☑	non C5-C8 - TOTAL	828160	0	0		µg/m³
☑	non C9-C12 - TOTAL	548600	0	0		µg/m³

1103609-001ADUP	755894	MA_APH	DUP	VOA1_110411A	R39776	4/12/2011 1:07:00 AM	4000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	380160	0	0		µg/m³
✓	C5-C8 Aliphatic	2836160	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	2005960	468000	468000		µg/m³
✓	C9-C12 Aliphatic	691840	0	0		µg/m³
✓	C9-C12 Aliphatic-Aromatic Hydrocarbons	141440	0	0		µg/m³
☑	Chlorobenzene-d5	50000	0	0		ppbv
✓	non C5-C8 - TOTAL	830200	0	0		µg/m³
✓	non C9-C12 - TOTAL	550400	0	0		µg/m³

1103609-002A	755895	MA_APH	SAMP	VOA1_110411A	R39776	4/12/2011 1:48:00 AM	40

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3678	0	0		µg/m³
✓	C5-C8 Aliphatic	59102	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	48386	4680	4680		µg/m³
☑	C9-C12 Aliphatic	11679.6	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	4640.4	0	0		µg/m³
☑	Chlorobenzene-d5	500	0	0		ppbv
✓	non C5-C8 - TOTAL	10716	0	0		µg/m³
✓	non C9-C12 - TOTAL	7039.2	0	0		µg/m³

1103609-003A	755896	MA_APH	SAMP	VOA1_110411A	R39776	4/12/2011 2:29:00 AM	160000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	15230400	0	0		µg/m³
✓	C5-C8 Aliphatic	178062400	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	141201600	18720000	18720000		µg/m³
☑	C9-C12 Aliphatic	29193600	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	6174400	0	0		µg/m³
✓	Chlorobenzene-d5	2000000	0	0		ppbv
✓	non C5-C8 - TOTAL	36860800	0	0		µg/m³
✓	non C9-C12 - TOTAL	23019200	0	0		µg/m³

1103609-005A	755897	MA_APH	SAMP	VOA1_110411A	R39776	4/12/2011 3:52:00 AM	40000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3868000	0	0		µg/m³
☑	C5-C8 Aliphatic	39414000	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	30731200	4680000	4680000		µg/m³
☑	C9-C12 Aliphatic	8478400	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2362000	0	0		µg/m³
☑	Chlorobenzene-d5	500000	0	0		ppbv
☑	non C5-C8 - TOTAL	8682800	0	0		µg/m³
☑	non C9-C12 - TOTAL	6116400	0	0		µg/m³

1103609-006A	755898	MA_APH	SAMP	VOA1_110411A	R39776	4/12/2011 4:33:00 AM	4000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	368440	0	0		µg/m³
☑	C5-C8 Aliphatic	2817480	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1791360	468000	468000		µg/m³
☑	C9-C12 Aliphatic	1389400	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	578000	0	0		µg/m³
☑	Chlorobenzene-d5	50000	0	0		ppbv
☑	non C5-C8 - TOTAL	1026120	0	0		µg/m³
☑	non C9-C12 - TOTAL	811400	0	0		µg/m³

1103609-007A	755899	MA_APH	SAMP	VOA1_110411A	R39776	4/12/2011 5:14:00 AM	8000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	750960	0	0		µg/m³
☑	C5-C8 Aliphatic	2980080	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1655760	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1657200	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	455280	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1324320	0	0		µg/m³
☑	non C9-C12 - TOTAL	1201920	0	0		µg/m³

BFB 50cc voa020211c	755933	BFB_TUNE	TUNE	VOA1_110411A	R39776	4/11/2011 10:37:00 AM	1
APH CCV 150cc vo	755938	MA_APH	CCV	VOA1_110411A	R39776	4/11/2011 11:19:00 AM	1

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755878
Analysis Date: 4/11/2011 12:44:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	89.92	0	0		µg/m³
☑	C5-C8 Aliphatic HC - TOTAL	207.54	0	0		µg/m³
☑	C9-C10 Aromatic HC - TOTAL	206.45	0	0		µg/m³
☑	C9-C12 Aliphatic HC - TOTAL	303.21	0	0		µg/m³
☑	Chlorobenzene-d5	12.5	0	0		ppbv

APH RLVS 20cc vo 755939 MA_APH RLVS VOA1_110411A R39776 4/11/2011 12:00:00 PM 1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	89.33	0	0		µg/m³
☑	C5-C8 Aliphatic HC - TOTAL	145.48	0	0		µg/m³
☑	C9-C10 Aromatic HC - TOTAL	172.98	0	0		µg/m³
☑	C9-C12 Aliphatic HC - TOTAL	302.45	0	0		µg/m³
☑	Chlorobenzene-d5	12.5	0	0		ppbv

APH RLVS 20cc vo 755941 MA_APH RLVS VOA1_110411A R39776 4/12/2011 5:56:00 AM 1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	88.54	0	0		µg/m³
☑	C5-C8 Aliphatic HC - TOTAL	144	0	0		µg/m³
☑	C9-C10 Aromatic HC - TOTAL	158.41	0	0		µg/m³
☑	C9-C12 Aliphatic HC - TOTAL	276.78	0	0		µg/m³
☑	Chlorobenzene-d5	12.5	0	0		ppbv

Method Blank Contamination Report

Blank ID: MBLK(2) 4/1/11
SeqNo: 755892
Analysis Date: 4/11/2011 11:45:00 PM
Analyst: Michael Truchan

Batch ID: R39776
TestCode: MA_APH
RunID: VOA1_110411A
InstrumentID: VOA1

Analyte	Result	MDL	PQL	Qual	Units:
C5-C8 Aliphatic	98.08	0	0		µg/m³
C9-C12 Aliphatic	157.12	0	0		µg/m³
C9-C12 Aliphatic-Aromatic Hydrocarbons	33.24	0	0		µg/m³
non C5-C8 - TOTAL	110.31	0	0		µg/m³
non C9-C12 - TOTAL	123.88	0	0		µg/m³

The following Samples are associated with this blank:

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755946
Analysis Date: 4/12/2011 12:12:00 PM
Analyst: Michael Truchan

Batch ID: R39777
TestCode: MA_APH
RunID: VOA1_110412A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103609-008A	755947	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 1:22:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7481600	0	0		µg/m³
☑	C5-C8 Aliphatic	62221600	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	45958400	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	12248800	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2588800	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	16263200	0	0		µg/m³
☑	non C9-C12 - TOTAL	9660000	0	0		µg/m³

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103609-008ADUP	755948	MA_APH	DUP	VOA1_110412A	R39777	4/12/2011 2:03:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7346400	0	0		µg/m³
☑	C5-C8 Aliphatic	59240800	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	43752000	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	11644800	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2432000	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	15488800	0	0		µg/m³
☑	non C9-C12 - TOTAL	9212800	0	0		µg/m³

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103609-009A	755949	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 2:44:00 PM	80000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39777

SeqNo: 755946 **TestCode:** MA_APH

Analysis Date: 4/12/2011 12:12:00 PM **RunID:** VOA1_110412A

Analyst: Michael Truchan **InstrumentID:** VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7373600	0	0		µg/m³
☑	C5-C8 Aliphatic	56569600	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	40814400	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	11484800	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2312000	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	15755200	0	0		µg/m³
☑	non C9-C12 - TOTAL	9172800	0	0		µg/m³

1103609-010A	755950	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 3:24:00 PM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7428000	0	0		µg/m³
☑	C5-C8 Aliphatic	81752800	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	64059200	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	14506400	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	3964800	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	17693600	0	0		µg/m³
☑	non C9-C12 - TOTAL	10541600	0	0		µg/m³

1103609-011A	755951	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 4:05:00 PM	8000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	721840	0	0		µg/m³
☑	C5-C8 Aliphatic	6061680	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	4376880	936000	936000		µg/m³
☑	C9-C12 Aliphatic	2549840	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	1156560	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1684800	0	0		µg/m³
☑	non C9-C12 - TOTAL	1393280	0	0		µg/m³

1103609-012A	755952	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 4:46:00 PM	4000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39777

SeqNo: 755946 **TestCode:** MA_APH

Analysis Date: 4/12/2011 12:12:00 PM **RunID:** VOA1_110412A

Analyst: Michael Truchan **InstrumentID:** VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	369200	0	0		µg/m³
☑	C5-C8 Aliphatic	2059160	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1280800	468000	468000		µg/m³
☑	C9-C12 Aliphatic	1063560	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	429280	0	0		µg/m³
☑	Chlorobenzene-d5	50000	0	0		ppbv
☑	non C5-C8 - TOTAL	778360	0	0		µg/m³
☑	non C9-C12 - TOTAL	634280	0	0		µg/m³

1103609-013A	755953	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 5:27:00 PM	160000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	14812800	0	0		µg/m³
☑	C5-C8 Aliphatic	185347200	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	149062400	18720000	18720000		µg/m³
☑	C9-C12 Aliphatic	25680000	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	5641600	0	0		µg/m³
☑	Chlorobenzene-d5	2000000	0	0		ppbv
☑	non C5-C8 - TOTAL	36284800	0	0		µg/m³
☑	non C9-C12 - TOTAL	20038400	0	0		µg/m³

1103609-014A	755954	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 6:09:00 PM	40000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3774400	0	0		µg/m³
☑	C5-C8 Aliphatic	103467600	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	85962800	4680000	4680000		µg/m³
☑	C9-C12 Aliphatic	10170000	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	3956400	0	0		µg/m³
☑	Chlorobenzene-d5	500000	0	0		ppbv
☑	non C5-C8 - TOTAL	17504800	0	0		µg/m³
☑	non C9-C12 - TOTAL	6213600	0	0		µg/m³

1103609-015A	755955	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 6:54:00 PM	4000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39777

SeqNo: 755946 **TestCode:** MA_APH

Analysis Date: 4/12/2011 12:12:00 PM **RunID:** VOA1_110412A

Analyst: Michael Truchan **InstrumentID:** VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	378400	0	0		µg/m³
☑	C5-C8 Aliphatic	3633960	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	2590960	468000	468000		µg/m³
☑	C9-C12 Aliphatic	776320	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	196560	0	0		µg/m³
☑	Chlorobenzene-d5	50000	0	0		ppbv
☑	non C5-C8 - TOTAL	1043000	0	0		µg/m³
☑	non C9-C12 - TOTAL	579760	0	0		µg/m³

1103609-016A	755956	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 7:34:00 PM	16000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	1438400	0	0		µg/m³
☑	C5-C8 Aliphatic	12396640	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	8413280	1872000	1872000		µg/m³
☑	C9-C12 Aliphatic	6307840	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2786080	0	0		µg/m³
☑	Chlorobenzene-d5	200000	0	0		ppbv
☑	non C5-C8 - TOTAL	3983360	0	0		µg/m³
☑	non C9-C12 - TOTAL	3521760	0	0		µg/m³

1103609-018A	755957	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 8:55:00 PM	40000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	3726400	0	0		µg/m³
☑	C5-C8 Aliphatic	24425600	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	17517600	4680000	4680000		µg/m³
☑	C9-C12 Aliphatic	6580400	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	1293600	0	0		µg/m³
☑	Chlorobenzene-d5	500000	0	0		ppbv
☑	non C5-C8 - TOTAL	6908000	0	0		µg/m³
☑	non C9-C12 - TOTAL	5286800	0	0		µg/m³

1103609-019A	755958	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 9:37:00 PM	8000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39777

SeqNo: 755946 **TestCode:** MA_APH

Analysis Date: 4/12/2011 12:12:00 PM **RunID:** VOA1_110412A

Analyst: Michael Truchan **InstrumentID:** VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	731680	0	0		µg/m³
☑	C5-C8 Aliphatic	2997360	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1796400	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1568320	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	436560	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1200960	0	0		µg/m³
☑	non C9-C12 - TOTAL	1131760	0	0		µg/m³

1103609-020A	755959	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 10:18:00 PM	8000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	717280	0	0		µg/m³
☑	C5-C8 Aliphatic	5464320	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	3928320	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1718320	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	508560	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1536000	0	0		µg/m³
☑	non C9-C12 - TOTAL	1209760	0	0		µg/m³

1103609-021A	755960	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 10:59:00 PM	8000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	735120	0	0		µg/m³
☑	C5-C8 Aliphatic	2520320	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	1364560	936000	936000		µg/m³
☑	C9-C12 Aliphatic	1586960	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	422400	0	0		µg/m³
☑	Chlorobenzene-d5	100000	0	0		ppbv
☑	non C5-C8 - TOTAL	1155760	0	0		µg/m³
☑	non C9-C12 - TOTAL	1164560	0	0		µg/m³

1103609-022A	755961	MA_APH	SAMP	VOA1_110412A	R39777	4/12/2011 11:39:00 PM	16000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755946
Analysis Date: 4/12/2011 12:12:00 PM
Analyst: Michael Truchan

Batch ID: R39777
TestCode: MA_APH
RunID: VOA1_110412A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	1455840	0	0		µg/m³
☑	C5-C8 Aliphatic	18876480	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	15540640	1872000	1872000		µg/m³
☑	C9-C12 Aliphatic	2928160	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	700480	0	0		µg/m³
☑	Chlorobenzene-d5	200000	0	0		ppbv
☑	non C5-C8 - TOTAL	3335840	0	0		µg/m³
☑	non C9-C12 - TOTAL	2227680	0	0		µg/m³

1103609-023A	755962	MA_APH	SAMP	VOA1_110412A	R39777	4/13/2011 12:22:00 AM	1600

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	148368	0	0		µg/m³
☑	C5-C8 Aliphatic	624512	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	349344	187200	187200		µg/m³
☑	C9-C12 Aliphatic	369600	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	115088	0	0		µg/m³
☑	Chlorobenzene-d5	20000	0	0		ppbv
☑	non C5-C8 - TOTAL	275168	0	0		µg/m³
☑	non C9-C12 - TOTAL	254512	0	0		µg/m³

1103609-025A	755964	MA_APH	SAMP	VOA1_110412A	R39777	4/13/2011 1:47:00 AM	80000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	7135200	0	0		µg/m³
☑	C5-C8 Aliphatic	80264000	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	62395200	9360000	9360000		µg/m³
☑	C9-C12 Aliphatic	12944800	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	2575200	0	0		µg/m³
☑	Chlorobenzene-d5	1000000	0	0		ppbv
☑	non C5-C8 - TOTAL	17868800	0	0		µg/m³
☑	non C9-C12 - TOTAL	10369600	0	0		µg/m³

1103609-026A	755965	MA_APH	SAMP	VOA1_110412A	R39777	4/13/2011 2:28:00 AM	160000

Method Blank Contamination Report

Blank ID: MBLK 4/11/11
SeqNo: 755946
Analysis Date: 4/12/2011 12:12:00 PM
Analyst: Michael Truchan

Batch ID: R39777
TestCode: MA_APH
RunID: VOA1_110412A
InstrumentID: VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	14403200	0	0		µg/m³
☑	C5-C8 Aliphatic	138668800	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	101603200	18720000	18720000		µg/m³
☑	C9-C12 Aliphatic	27563200	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	5622400	0	0		µg/m³
☑	Chlorobenzene-d5	2000000	0	0		ppbv
☑	non C5-C8 - TOTAL	37065600	0	0		µg/m³
☑	non C9-C12 - TOTAL	21940800	0	0		µg/m³

1103609-027A	755966	MA_APH	SAMP	VOA1_110412A	R39777	4/13/2011 3:09:00 AM	160000

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	14571200	0	0		µg/m³
☑	C5-C8 Aliphatic	150505600	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	114515200	18720000	18720000		µg/m³
☑	C9-C12 Aliphatic	27707200	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	5702400	0	0		µg/m³
☑	Chlorobenzene-d5	2000000	0	0		ppbv
☑	non C5-C8 - TOTAL	35990400	0	0		µg/m³
☑	non C9-C12 - TOTAL	22004800	0	0		µg/m³

APH CCV 150cc vo	755971	MA_APH	CCV	VOA1_110412A	R39777	4/12/2011 10:49:00 AM	1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	88.33	0	0		µg/m³
☑	C5-C8 Aliphatic HC - TOTAL	204.79	0	0		µg/m³
☑	C9-C10 Aromatic HC - TOTAL	222.65	0	0		µg/m³
☑	C9-C12 Aliphatic HC - TOTAL	317.73	0	0		µg/m³
☑	Chlorobenzene-d5	12.5	0	0		ppbv

APH RLVS 20cc vo	755972	MA_APH	RLVS	VOA1_110412A	R39777	4/12/2011 11:29:00 AM	1

Method Blank Contamination Report

Blank ID: MBLK 4/11/11 **Batch ID:** R39777

SeqNo: 755946 **TestCode:** MA_APH

Analysis Date: 4/12/2011 12:12:00 PM **RunID:** VOA1_110412A

Analyst: Michael Truchan **InstrumentID:** VOA1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	88.17	0	0		µg/m³
☑	C5-C8 Aliphatic HC - TOTAL	137.37	0	0		µg/m³
☑	C9-C10 Aromatic HC - TOTAL	176.66	0	0		µg/m³
☑	C9-C12 Aliphatic HC - TOTAL	300.51	0	0		µg/m³
☑	Chlorobenzene-d5	12.5	0	0		ppbv

APH RLVS 20cc vo	755973	MA_APH	RLVS	VOA1_110412A	R39777	4/13/2011 9:04:00 AM	1

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	88.99	0	0		µg/m³
☑	C5-C8 Aliphatic HC - TOTAL	143.86	0	0		µg/m³
☑	C9-C10 Aromatic HC - TOTAL	164	0	0		µg/m³
☑	C9-C12 Aliphatic HC - TOTAL	290.08	0	0		µg/m³
☑	Chlorobenzene-d5	12.5	0	0		ppbv

BFB 50cc voa020211c	756993	BFB_TUNE	TUNE	VOA1_110412A	R39777	4/12/2011 10:08:00 AM	1
1103609-024A	757001	MA_APH	SAMP	VOA1_110412A	R39777	4/13/2011 1:06:00 AM	400

Rpt	Analyte	Result	MDL	PQL	Qual	Units:
☑	4-Bromofluorobenzene	36352	0	0		µg/m³
☑	C5-C8 Aliphatic	94312	0	0		µg/m³
☑	C5-C8 Aliphatic Hydrocarbons	37452	0	0		µg/m³
☑	C9-C10 Aromatic Hydrocarbons	2184	0	0		µg/m³
☑	C9-C12 Aliphatic	72856	0	0		µg/m³
☑	C9-C12 Aliphatic Hydrocarbons	17688	0	0		µg/m³
☑	C9-C12 Aliphatic-Aromatic Hydrocarbons	19872	0	0		µg/m³
☑	Chlorobenzene-d5	5000	0	0		ppbv
☑	non C5-C8 - TOTAL	56860	0	0		µg/m³
☑	non C9-C12 - TOTAL	52984	0	0		µg/m³

Method Blank Contamination Report

Blank ID: MBLK 4/13/11
SeqNo: 756896
Analysis Date: 4/13/2011 5:55:00 PM
Analyst: Michael Truchan

Batch ID: R39813
TestCode: MA_APH
RunID: VOA1_110413A
InstrumentID: VOA1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
1103609-004A	756897	MA_APH	SAMP	VOA1_110413A	R39813	4/13/2011 6:37:00 PM	400
1103609-004ADUP	756898	MA_APH	DUP	VOA1_110413A	R39813	4/13/2011 7:18:00 PM	400
1103389-036B	756899	MA_APH	SAMP	VOA1_110413A	R39813	4/14/2011 11:11:00 AM	1000
1103609-017A	756900	MA_APH	SAMP	VOA1_110413A	R39813	4/14/2011 12:35:00 PM	1000
1103389-037B	756901	MA_APH	SAMP	VOA1_110413A	R39813	4/14/2011 2:00:00 PM	4000
APH CCV 150cc vo	756903	MA_APH	CCV	VOA1_110413A	R39813	4/13/2011 4:29:00 PM	1
APH RLVS 20cc vo	756904	MA_APH	RLVS	VOA1_110413A	R39813	4/13/2011 5:11:00 PM	1
APH RLVS 20cc vo	756905	MA_APH	RLVS	VOA1_110413A	R39813	4/14/2011 3:46:00 PM	1
BFB 50cc voa020211c	756992	BFB_TUNE	TUNE	VOA1_110413A	R39813	4/13/2011 3:47:00 PM	1

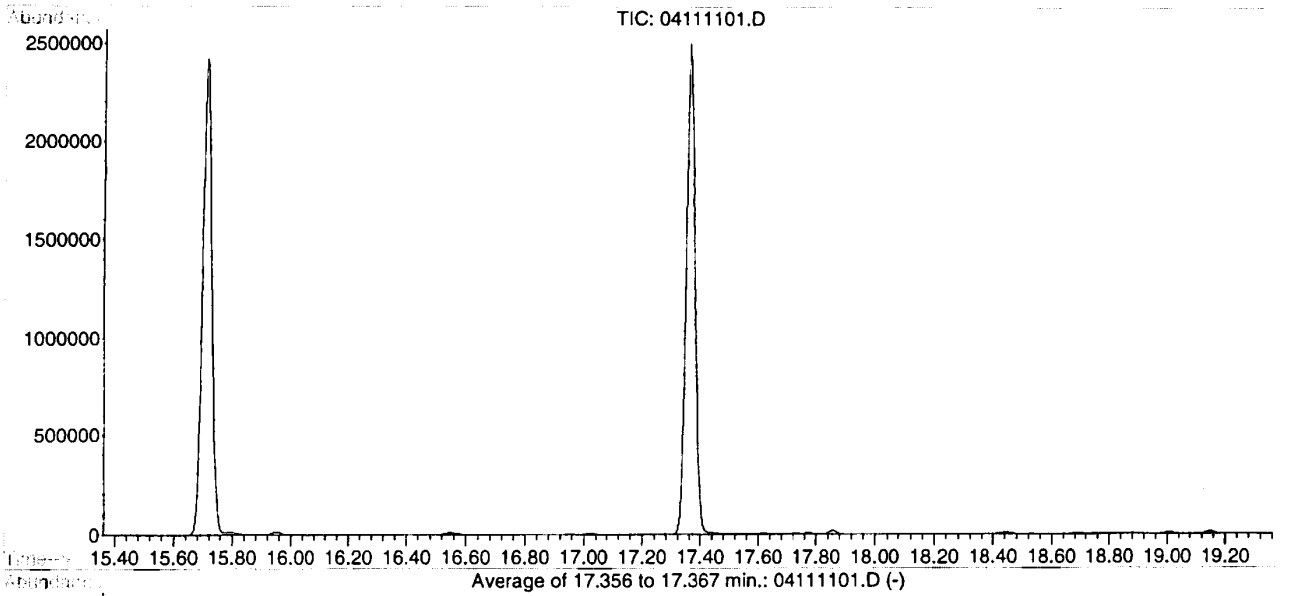
Injection Log

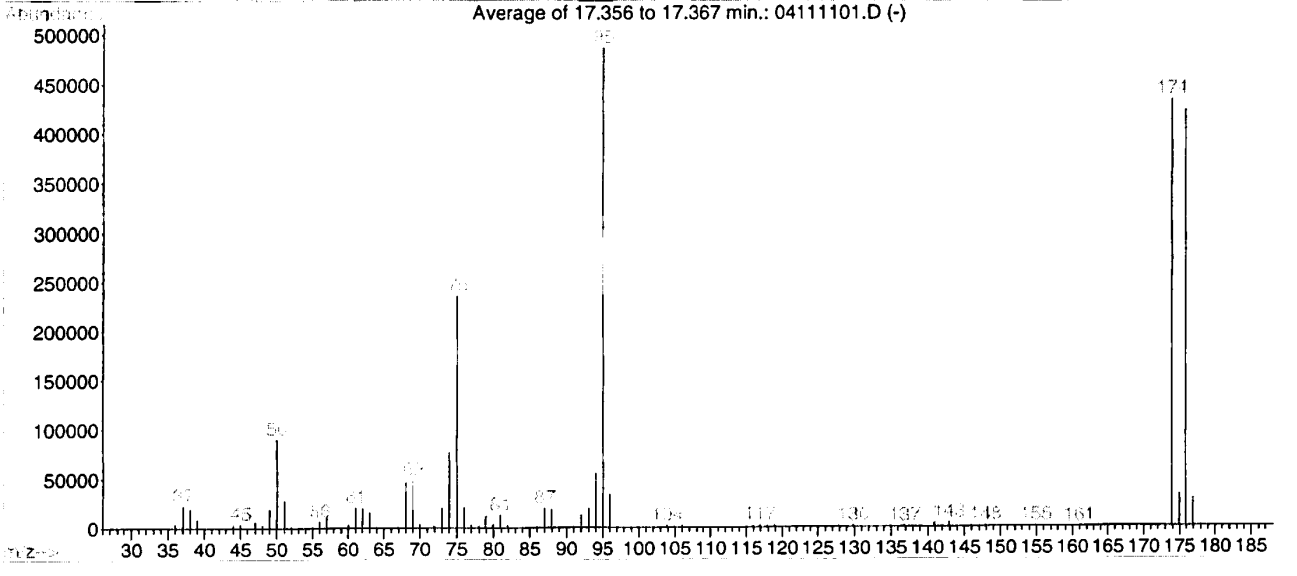
Directory: C:\HPCHEM\1\DATA\041111

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04111101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	11 Apr 2011 10:37
2	2	04111102.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	11 Apr 2011 11:19
3	3	04111103.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	11 Apr 2011 12:00
4	4	04111104.d	1.	MBLK 4/11/11	MBLK MA_APH	11 Apr 2011 12:44
5	5	04111105.d	80000.	1103389-025B	SAMP MA_APH	11 Apr 2011 13:24
6	6	04111106.d	80000.	1103389-025BDUP	DUP MA_APH	11 Apr 2011 14:05
7	7	04111107.d	160000.	1103389-026B	SAMP MA_APH	11 Apr 2011 14:45
8	8	04111108.d	80000.	1103389-027B	SAMP MA_APH	11 Apr 2011 15:25
9	9	04111109.d	80000.	1103389-028B	SAMP MA_APH	11 Apr 2011 16:06
10	10	04111110.d	8000.	1103389-029B	SAMP MA_APH	11 Apr 2011 16:47
11	11	04111111.d	8000.	1103389-030B	SAMP MA_APH	11 Apr 2011 17:27
12	12	04111112.d	8000.	1103389-031B	SAMP MA_APH	11 Apr 2011 18:08
13	13	04111113.d	8000.	1103389-032B	SAMP MA_APH	11 Apr 2011 18:47
14	14	04111114.d	40.	1103389-033B	SAMP MA_APH	11 Apr 2011 19:28
15	15	04111115.d	40.	1103389-034B	SAMP MA_APH	11 Apr 2011 20:09
16	16	04111116.d	40.	1103389-035B	SAMP MA_APH	11 Apr 2011 20:49
17	17	04111117.d	200.	1103389-036B	SAMP MA_APH	11 Apr 2011 21:36
18	18	04111118.d	400.	1103389-037B -> data not used	SAMP MA_APH	11 Apr 2011 22:21
19	19	04111119.d	40.	1103389-038B - MTICH 4/13/11	SAMP MA_APH	11 Apr 2011 23:02
20	4	04111120.d	1.	MBLK(2) 4/1/11	MBLK MA_APH	11 Apr 2011 23:45
21	5	04111121.d	4000.	1103609-001A	SAMP MA_APH	12 Apr 2011 00:26
22	6	04111122.d	4000.	1103609-001ADUP	DUP MA_APH	12 Apr 2011 01:07
23	7	04111123.d	40.	1103609-002A	SAMP MA_APH	12 Apr 2011 01:48
24	8	04111124.d	160000.	1103609-003A	SAMP MA_APH	12 Apr 2011 02:29
25	9	04111125.d	80000.	1103609-004A	SAMP MA_APH	12 Apr 2011 03:11
26	10	04111126.d	40000.	1103609-005A	SAMP MA_APH	12 Apr 2011 03:52
27	11	04111127.d	4000.	1103609-006A	SAMP MA_APH	12 Apr 2011 04:33
28	12	04111128.d	8000.	1103609-007A	SAMP MA_APH	12 Apr 2011 05:14
29	3	04111129.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	12 Apr 2011 05:56

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\041111\04111101.D Vial: 1
Acq On : 11 Apr 2011 10:37 am Operator: Michael Truchan
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : ical EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3





Spectrum Information: Average of 17.356 to 17.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	89947	PASS
75	95	30	60	48.5	236139	PASS
95	95	100	100	100.0	487040	PASS
96	95	5	9	7.0	34056	PASS
173	174	0.00	2	0.2	939	PASS
174	95	50	120	89.1	434133	PASS
175	174	4	9	7.5	32477	PASS
176	174	93	101	97.5	423317	PASS
177	176	5	9	6.6	28067	PASS

04111101.D 040911V1.M Wed Apr 13 19:10:52 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111102.D Vial: 2
Acq On : 11 Apr 2011 11:19 am Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

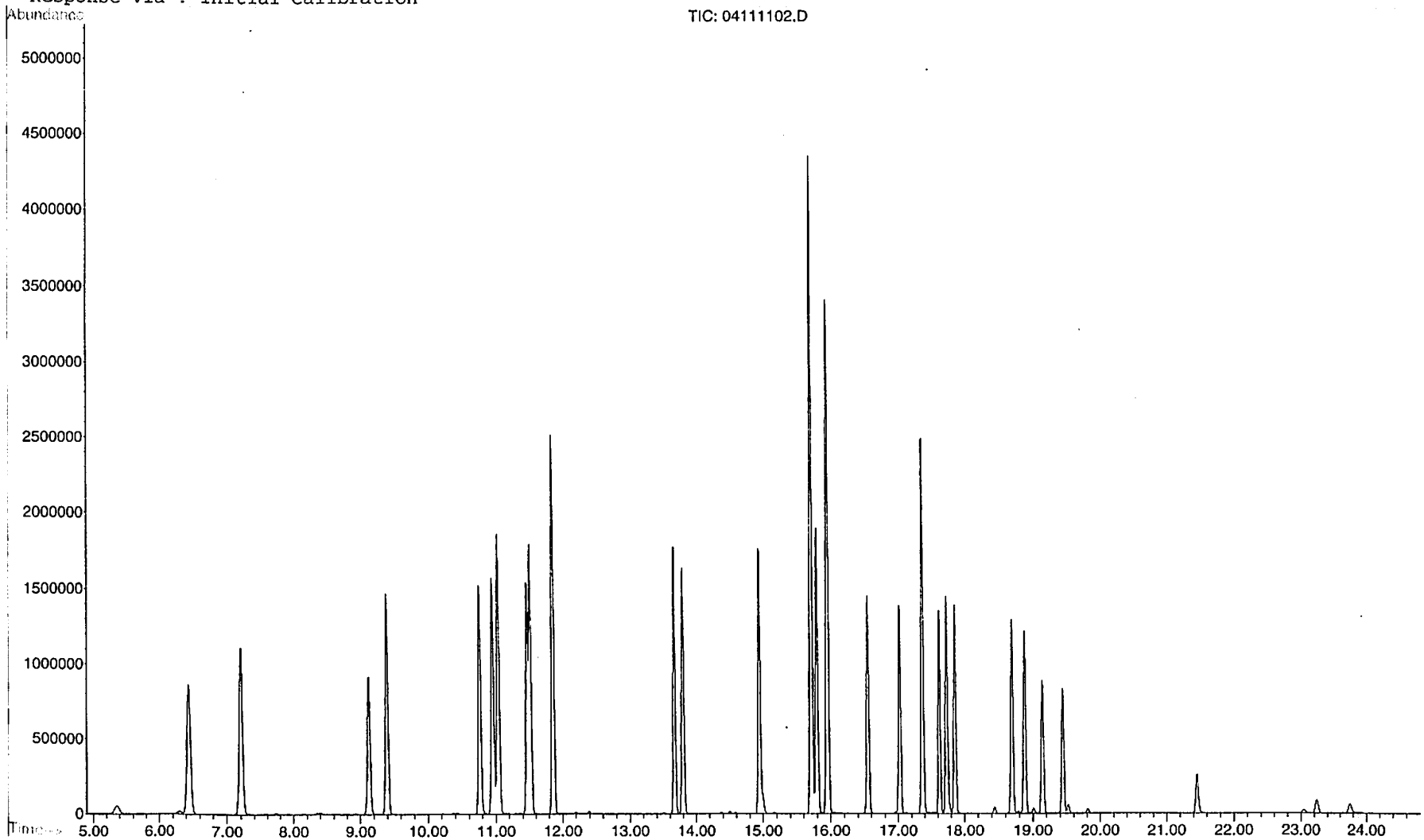
Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1917581	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1131354	89.92	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.47%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	3692227	30.42	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	3670678	33.71	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	4007348	33.56	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	4756118	41.18	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	3781518	32.69	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	3763055	35.35	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	23670944m	207.54	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	4246136	40.15	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	9311625	98.18	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	2743075	38.11	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	2935996	38.47	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	1862708	33.77	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	736258	24.90	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	21835798m	303.21	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	351151	37.15	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	425903	44.55	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	531576	42.52	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	104563	43.19	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	330458	37.33	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	289510	43.92	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2033161m	206.45	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111102.D 040911V1.M Wed Apr 13 19:10:58 2011 Page 1

Data File : C:\HPCHEM\1\DATA\041111\04111102.D Vial: 2
Acq On : 11 Apr 2011 11:19 am Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111103.D Vial: 3
Acq On : 11 Apr 2011 12:00 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

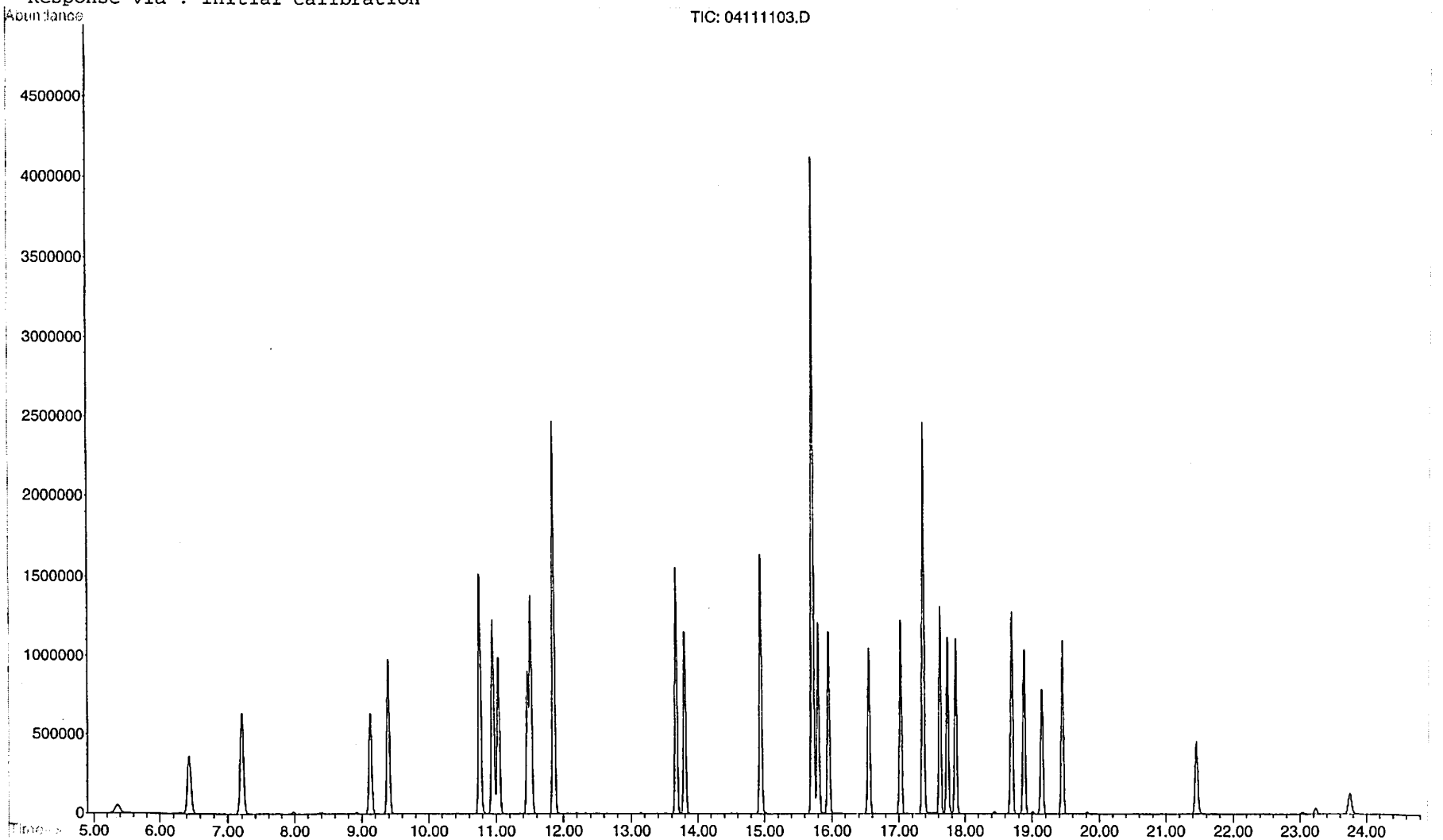
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1880164	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1101916	89.33	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.81%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2127731	17.53	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	2468328	22.67	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	3147713	26.36	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.04	TIC	2568988	22.24	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.52	TIC	3016497	26.07	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	3263252	30.65	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	16592509m	145.48	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3654025	34.55	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	8954560	94.41	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	2658886	36.94	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.69	TIC	2845000	37.28	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	2382282	43.18	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	1286280	43.50	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	21781033m	302.45	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	311735	32.98	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	324140	33.90	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	431378	34.50	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	89712	37.05	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	299264	33.81	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	247311	37.52	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1703540m	172.98	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111103.D 040911V1.M Wed Apr 13 19:11:04 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111103.D Vial: 3
Acq On : 11 Apr 2011 12:00 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:44 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111104.D Vial: 4
Acq On : 11 Apr 2011 12:44 pm Operator: Michael Truchan
Sample : MBLK 4/11/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:45 2011 Quant Results File: 040911V1.RES

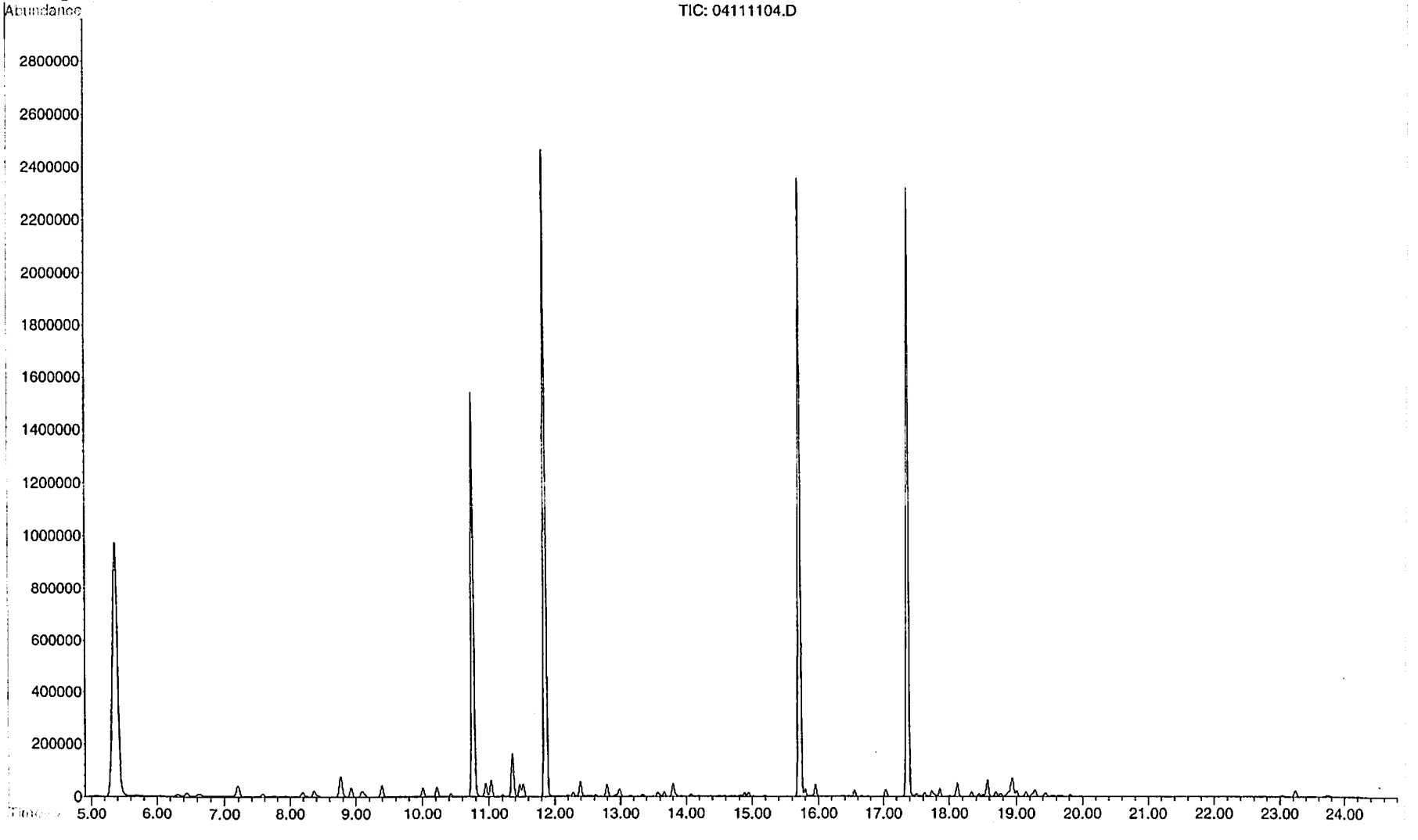
Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1783600	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1043830	89.20	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.66%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	12563764m	110.15	ug/m3	
23) non C5-C8	6.45	TIC	42063	0.46	ug/m3	100
24) non C5-C8 (2)	9.10	TIC	88409	1.25	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3829303	64.53	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	117357	1.22	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5671269	55.15	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	132172	1.30	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9880573m	116.18	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	12060360m	167.47	ug/m3	
31) non C9-C12	15.71	TIC	5348681	56.39	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	57417	0.64	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	101006	1.15	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	55100	0.68	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5160531	80.69	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10722735m	103.19	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111104.D 040911V1.M Wed Apr 13 19:11:09 2011 Page 1

Data File : C:\HPCHEM\1\DATA\041111\04111104.D Vial: 4
Acq On : 11 Apr 2011 12:44 pm Operator: Michael Truchan
Sample : MBLK 4/11/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:45 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111105.D Vial: 5
Acq On : 11 Apr 2011 1:24 pm Operator: Michael Truchan
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:46 2011 Quant Results File: 040911V1.RES

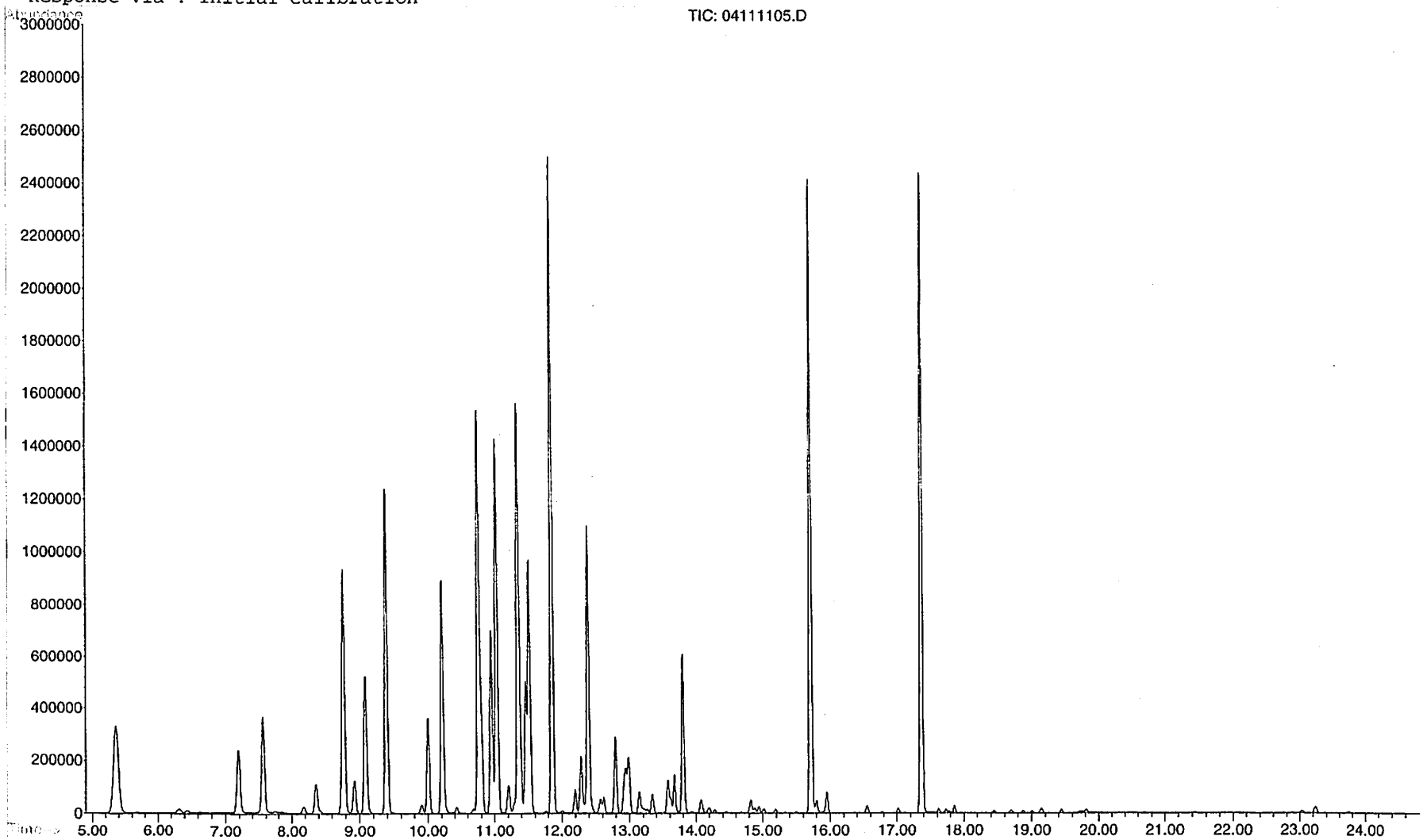
Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1826005	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1106537	92.36	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.20%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	47592996m	417.27	ug/m3	
23) non C5-C8	6.44	TIC	32686	0.36	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	1461217	20.61	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4742510	79.92	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	1265315	13.10	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5744915	55.87	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1463366	14.44	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14710009m	172.97	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	11799822m	163.85	ug/m3	
31) non C9-C12	15.71	TIC	5501870	58.01	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	111167	1.24	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	193738	2.21	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	63630	0.78	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5425243	84.83	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11295648m	134.35	ug/m3	
37) C9-C10 Aromatic	17.86	120	34067m	3.46	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	2694m	0.27	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	36761m	3.73	ug/m3	

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\041111\04111105.D Vial: 5
Acq On : 11 Apr 2011 1:24 pm Operator: Michael Truchan
Sample : 1103389-025B Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:46 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111106.D Vial: 6
Acq On : 11 Apr 2011 2:05 pm Operator: Michael Truchan
Sample : 1103389-025BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:47 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

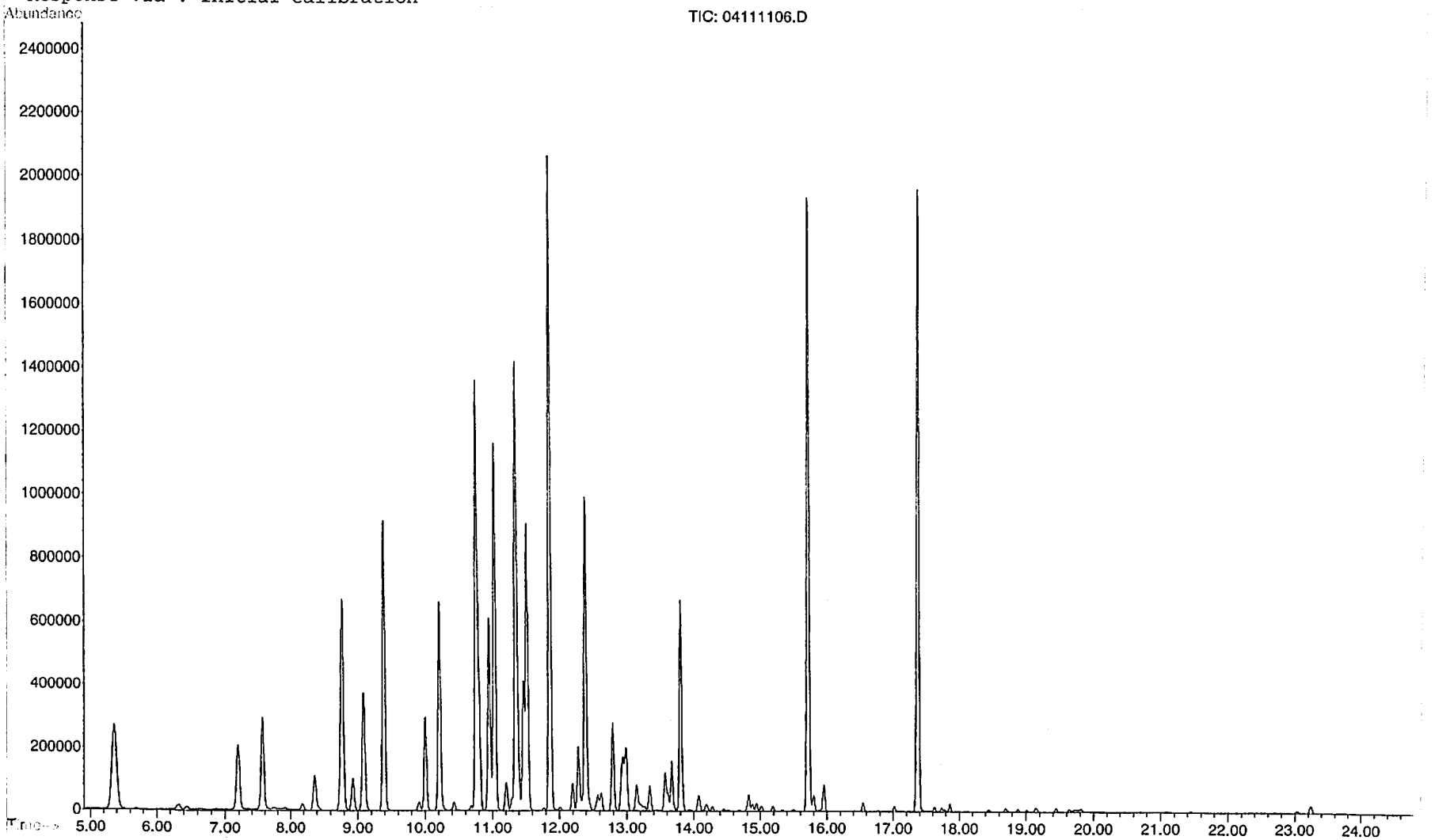
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1489921	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	889839	91.03	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.71%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	40993748m	359.41	ug/m3	
23) non C5-C8	6.45	TIC	32727	0.36	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	1070439	15.10	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4187963	70.58	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	1000195	10.36	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	4700599	45.71	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1606323	15.86	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	12598246m	148.14	ug/m3	
30) C9-C12 Aliphatic	17.37	TIC	9715881m	134.92	ug/m3	
31) non C9-C12	15.71	TIC	4492644	47.37	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	116780	1.31	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	202875	2.32	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	60250	0.74	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	4354054	68.08	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	9226603m	109.74	ug/m3	
37) C9-C10 Aromatic	17.86	120	29190m	2.96	ug/m3	
38) C9-C10 Aromatic (2)	18.89	134	2001m	0.20	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	31191m	3.17	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111106.D Vial: 6
Acq On : 11 Apr 2011 2:05 pm Operator: Michael Truchan
Sample : 1103389-025BDUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 12 10:47 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111120.D Vial: 4
Acq On : 11 Apr 2011 11:45 pm Operator: Michael Truchan
Sample : MBLK(2) 4/1/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

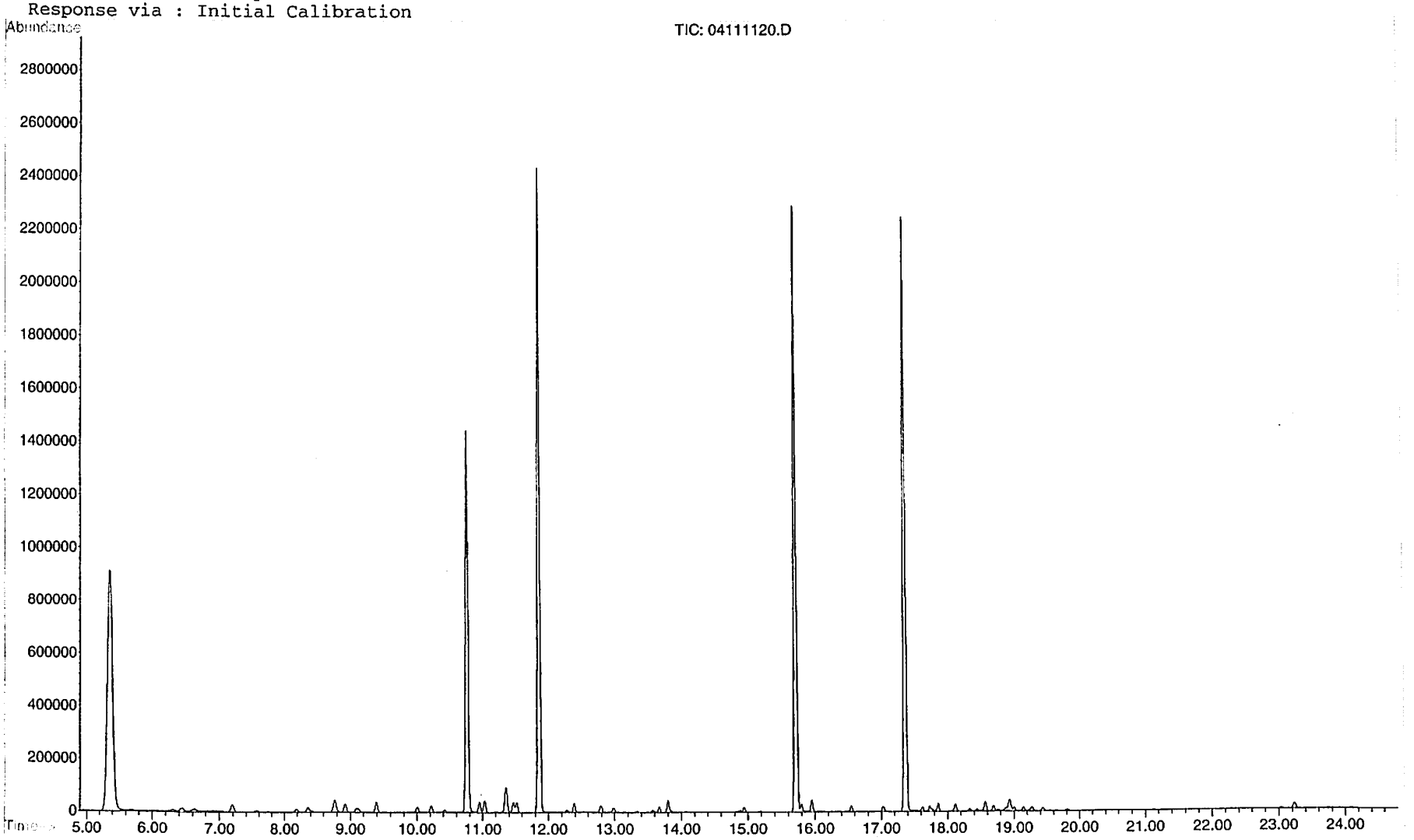
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1743270	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1005964	87.95	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.27%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	11186669m	98.08	ug/m3	
23) non C5-C8	6.44	TIC	39287	0.43	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	38607	0.54	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3570844	60.18	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	94188	0.98	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5525098	53.73	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	112872	1.11	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9380896m	110.31	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11314864m	157.12	ug/m3	
31) non C9-C12	15.71	TIC	5227868	55.12	ug/m3	100
32) non C9-C12 (2)	15.79	TIC	65349	0.73	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	96249	1.10	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	52927	0.65	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	4973019	77.76	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10415412m	123.88	ug/m3	
37) C9-C10 Aromatic	17.85	120	38227m	3.88	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	3300m	0.34	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	41527m	4.22	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111120.D 040911V1.M Wed Apr 13 19:12:29 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111120.D Vial: 4
Acq On : 11 Apr 2011 11:45 pm Operator: Michael Truchan
Sample : MBLK(2) 4/1/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111121.D
Acq On : 12 Apr 2011 12:26 am
Sample : 1103609-001A
Misc : SAMP MA_APH
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011

Vial: 5
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 4000.00
Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

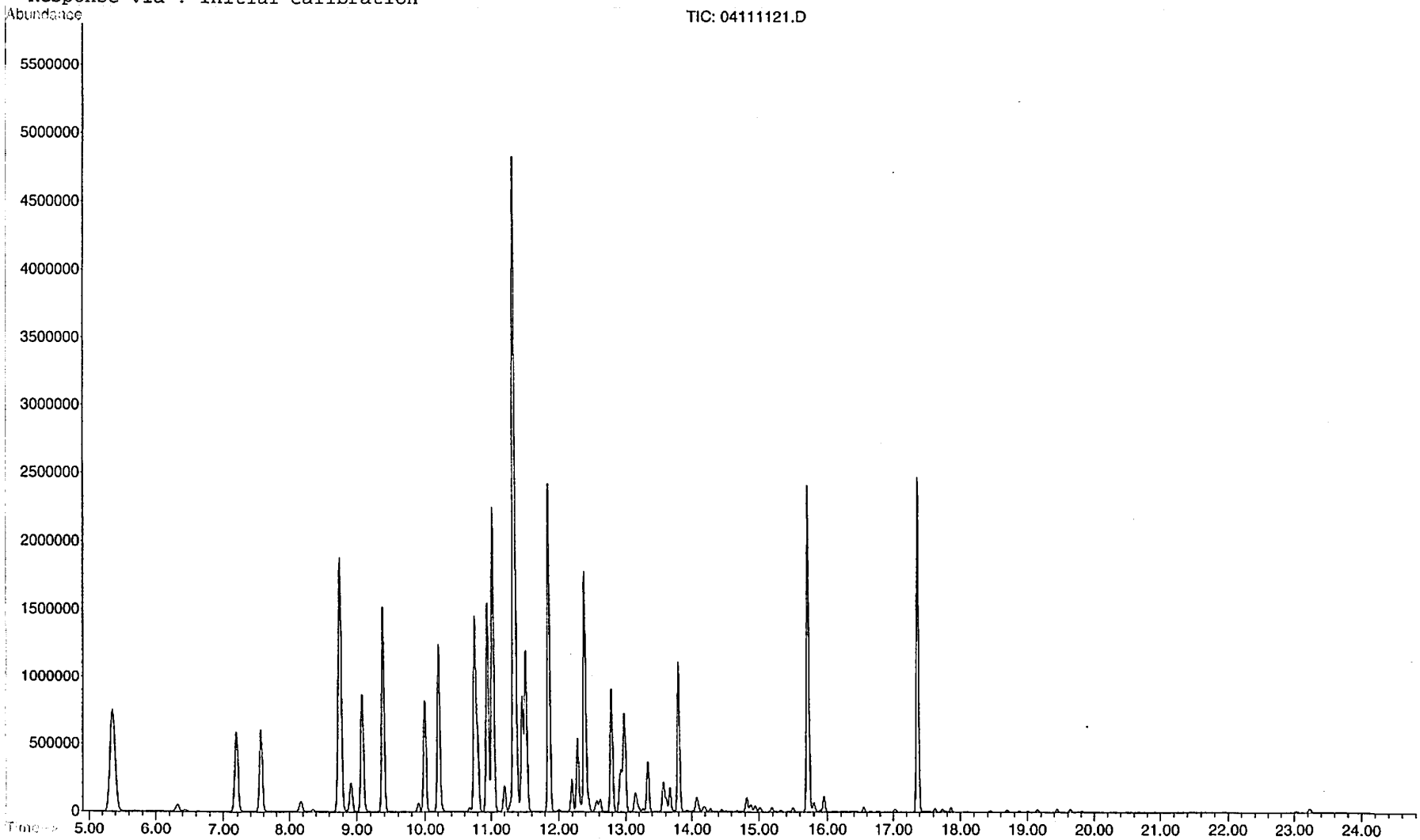
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1793066	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1128322	95.91	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 107.16%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	81731892m	716.59	ug/m3	
23) non C5-C8	6.44	TIC	51492	0.57	ug/m3	100
24) non C5-C8 (2)	9.07	TIC	2442061	34.44	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4896862	82.52	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	2059350	21.33	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5505115	53.54	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2652469	26.18	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17607349m	207.04	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	12367158m	171.73	ug/m3	
31) non C9-C12	15.71	TIC	5496473	57.95	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	175461	1.96	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	265499	3.03	ug/m3	100
34) non C9-C12 (4)	16.54	TIC	90444	1.12	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5503222	86.05	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11531099m	137.15	ug/m3	
37) C9-C10 Aromatic	17.86	120	43467m	4.41	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	3743m	0.38	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	47210m	4.79	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111121.D Vial: 5
Acq On : 12 Apr 2011 12:26 am Operator: Michael Truchan
Sample : 1103609-001A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:51 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111122.D Vial: 6
Acq On : 12 Apr 2011 1:07 am Operator: Michael Truchan
Sample : 1103609-001ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:52 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

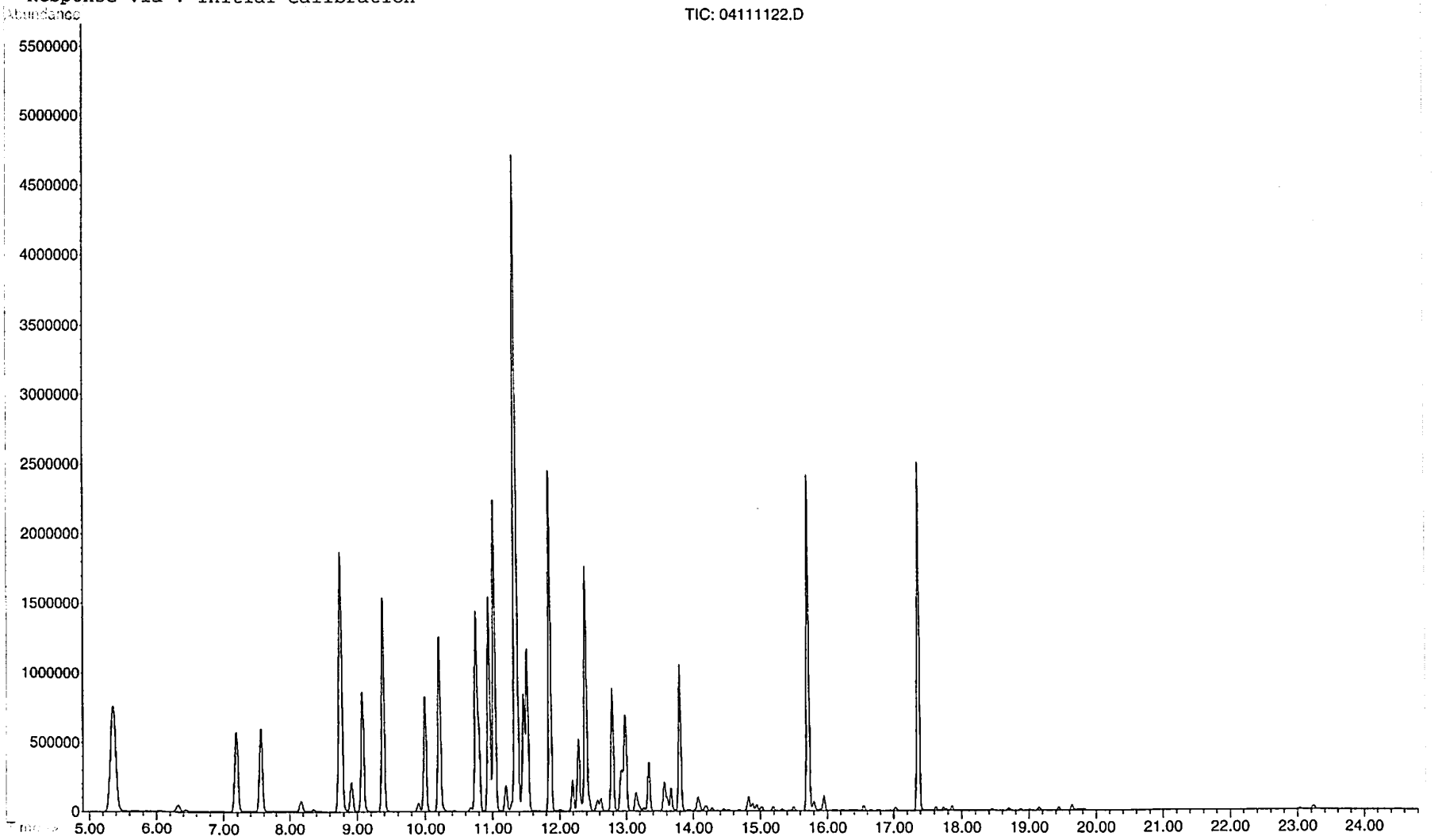
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1807064	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1126800	95.04	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.19%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	80870879m	709.04	ug/m3	
23) non C5-C8	6.43	TIC	42593	0.47	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	2447652	34.52	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4868137	82.04	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	2202553	22.81	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5559592	54.07	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2530483	24.98	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17651010m	207.55	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	12455387m	172.96	ug/m3	
31) non C9-C12	15.71	TIC	5519572	58.20	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	181722	2.03	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	255221	2.91	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	89796	1.11	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5522029	86.34	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11568340m	137.60	ug/m3	
37) C9-C10 Aromatic	17.86	120	43178m	4.38	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	3556m	0.36	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	46734m	4.75	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111122.D 040911V1.M Wed Apr 13 19:12:42 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111122.D Vial: 6
Acq On : 12 Apr 2011 1:07 am Operator: Michael Truchan
Sample : 1103609-001ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:52 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111123.D Vial: 7
Acq On : 12 Apr 2011 1:48 am Operator: Michael Truchan
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:53 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

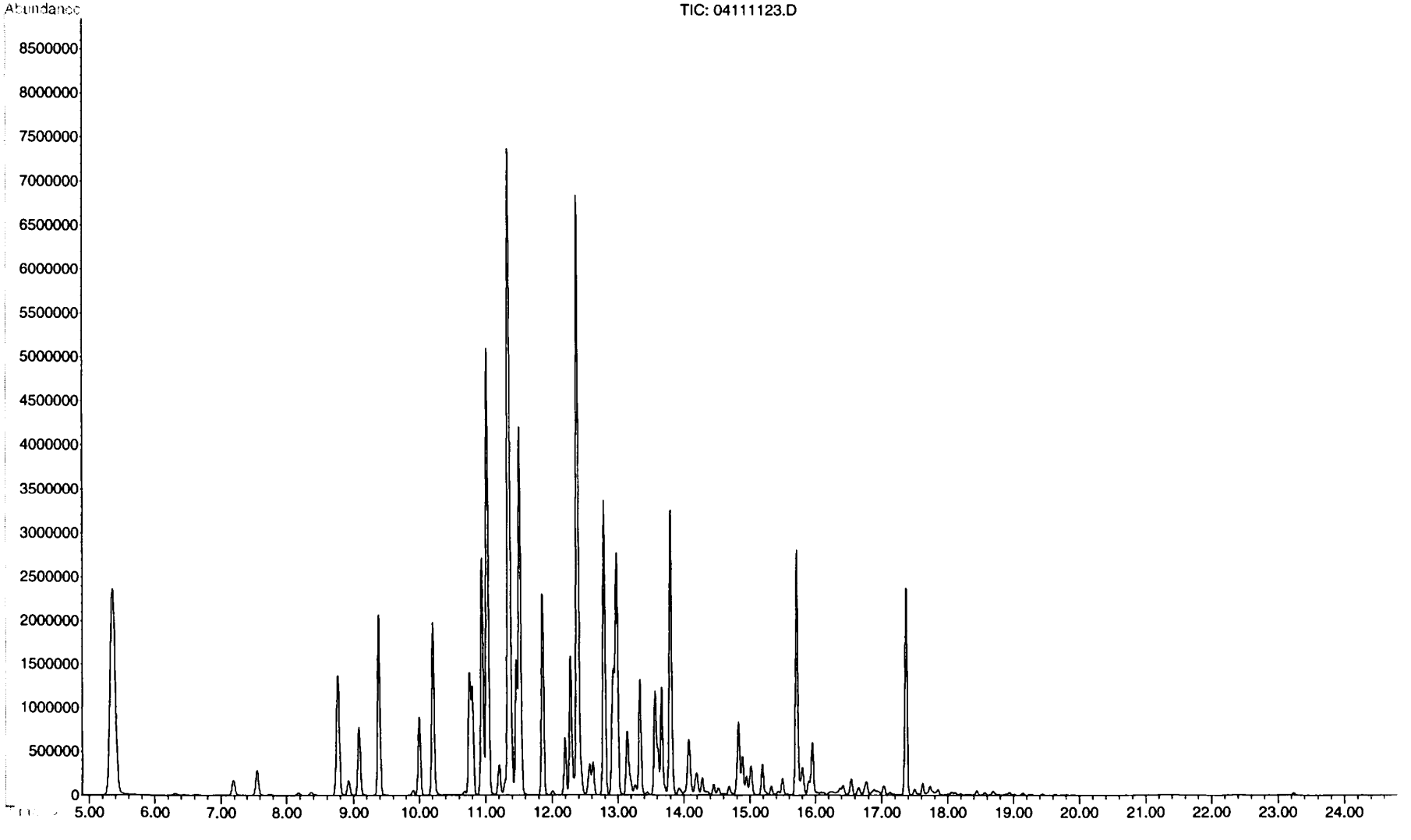
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1779004	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1073300	91.95	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.74%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	168524783m	1477.55	ug/m3	
23) non C5-C8	6.44	TIC	8517	0.09	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2173280	30.65	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3595286	60.59	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	3659589	37.90	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	5324046	51.78	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	8022400	79.19	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	22783118m	267.90	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	21027892m	291.99	ug/m3	
31) non C9-C12	15.71	TIC	6605676	69.65	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	844393	9.45	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	1440180	16.44	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	468910	5.78	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5436002	84.99	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	14795161m	175.98	ug/m3	
37) C9-C10 Aromatic	17.85	120	93995m	9.54	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	5894m	0.60	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	99889m	10.14	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111123.D 040911V1.M Wed Apr 13 19:12:50 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111123.D Vial: 7
Acq On : 12 Apr 2011 1:48 am Operator: Michael Truchan
Sample : 1103609-002A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:53 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111124.D Vial: 8
Acq On : 12 Apr 2011 2:29 am Operator: Michael Truchan
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:54 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

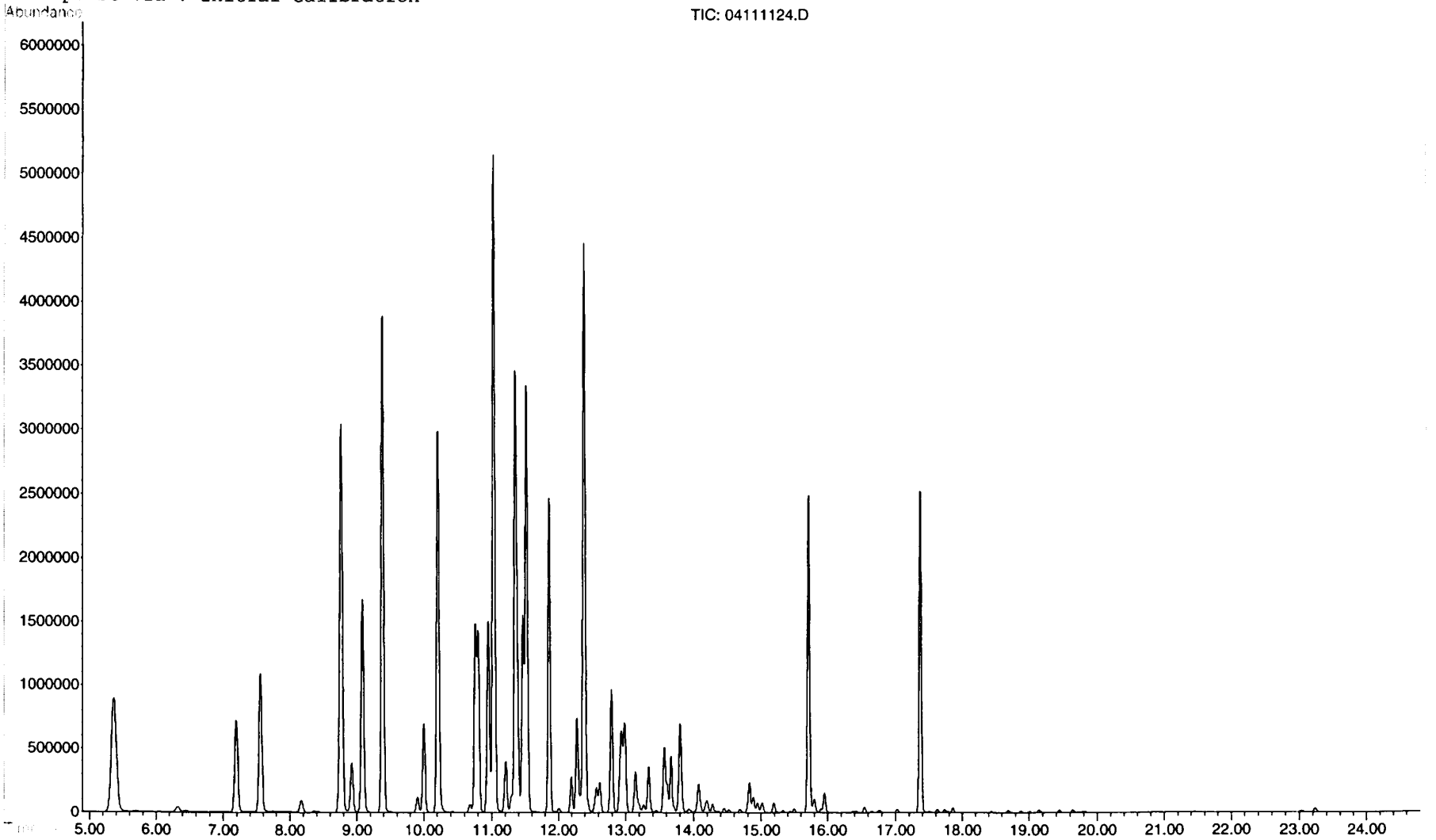
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1833568	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1145131	95.19	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 106.36%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.03	TIC	126933359m	1112.89	ug/m3	
23) non C5-C8	6.44	TIC	53195	0.59	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	4631569	65.32	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3718557	62.67	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	3626349	37.56	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5644888	54.90	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1918062	18.93	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19592620m	230.38	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	13139883m	182.46	ug/m3	
31) non C9-C12	15.71	TIC	5709734	60.20	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	275192	3.08	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	373700	4.27	ug/m3	100
34) non C9-C12 (4)	16.54	TIC	102882	1.27	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5634606	88.10	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12096114m	143.87	ug/m3	
37) C9-C10 Aromatic	17.85	120	47736m	4.85	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	4344m	0.44	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	52080m	5.29	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111124.D 040911V1.M Wed Apr 13 19:12:55 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111124.D Vial: 8
Acq On : 12 Apr 2011 2:29 am Operator: Michael Truchan
Sample : 1103609-003A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:54 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111126.D Vial: 10
Acq On : 12 Apr 2011 3:52 am Operator: Michael Truchan
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:56 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

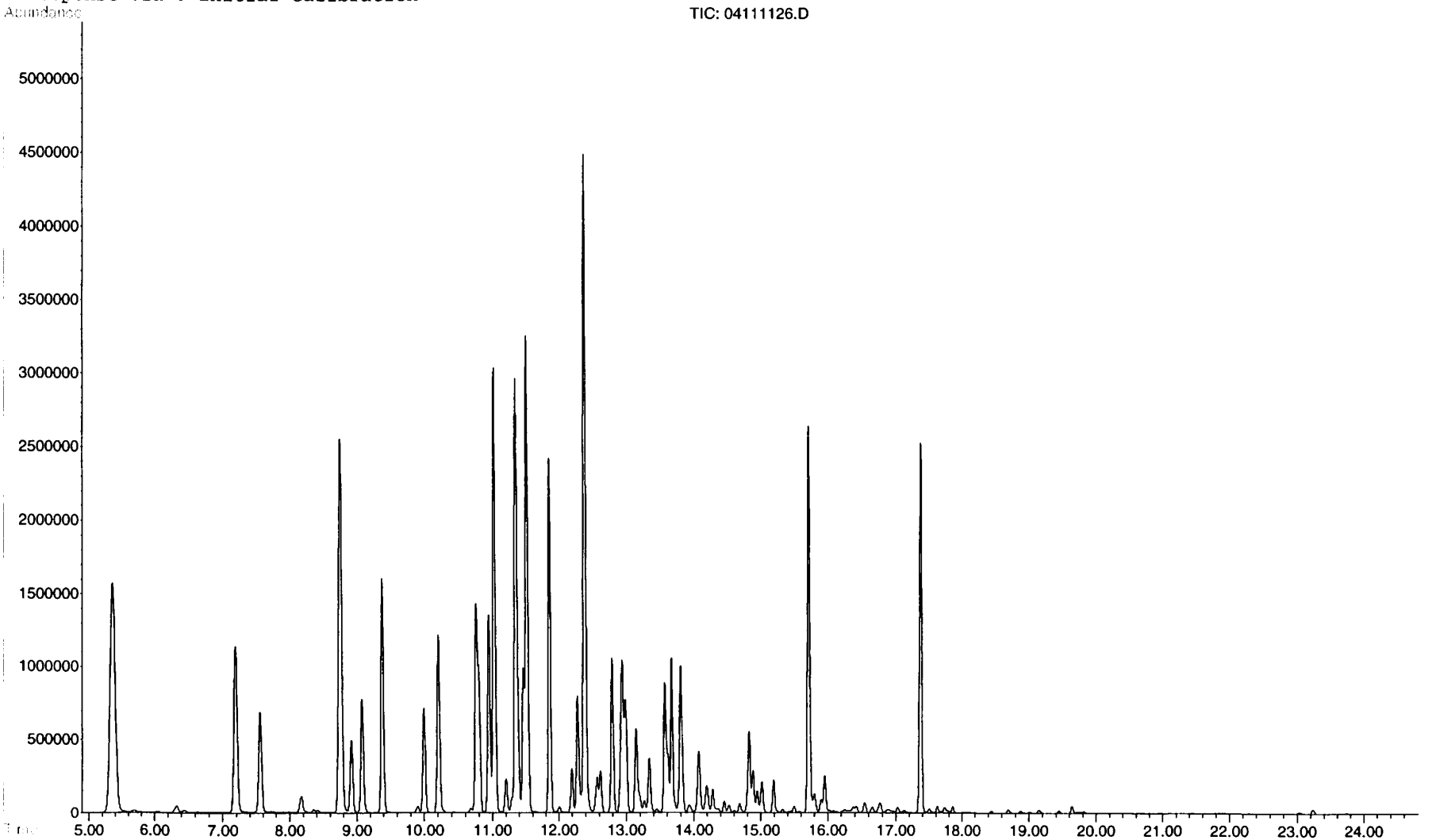
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1815788	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1152100	96.70	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 108.04%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	112385693m	985.35	ug/m3	
23) non C5-C8	6.44	TIC	53779	0.59	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	2183798	30.80	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	5711807	96.26	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	2165726	22.43	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5559102	54.06	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2786567	27.51	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	18460779m	217.07	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	15264163m	211.96	ug/m3	
31) non C9-C12	15.71	TIC	6079969	64.11	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	309837	3.47	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	601402	6.87	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	193182	2.38	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5671494	88.68	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12855884m	152.91	ug/m3	
37) C9-C10 Aromatic	17.86	120	53041m	5.39	ug/m3	
38) C9-C10 Aromatic (2)	18.89	134	4064m	0.41	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	57105m	5.80	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111126.D 040911V1.M Wed Apr 13 19:13:00 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111126.D Vial: 10
Acq On : 12 Apr 2011 3:52 am Operator: Michael Truchan
Sample : 1103609-005A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:56 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111127.D Vial: 11
Acq On : 12 Apr 2011 4:33 am Operator: Michael Truchan
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:57 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

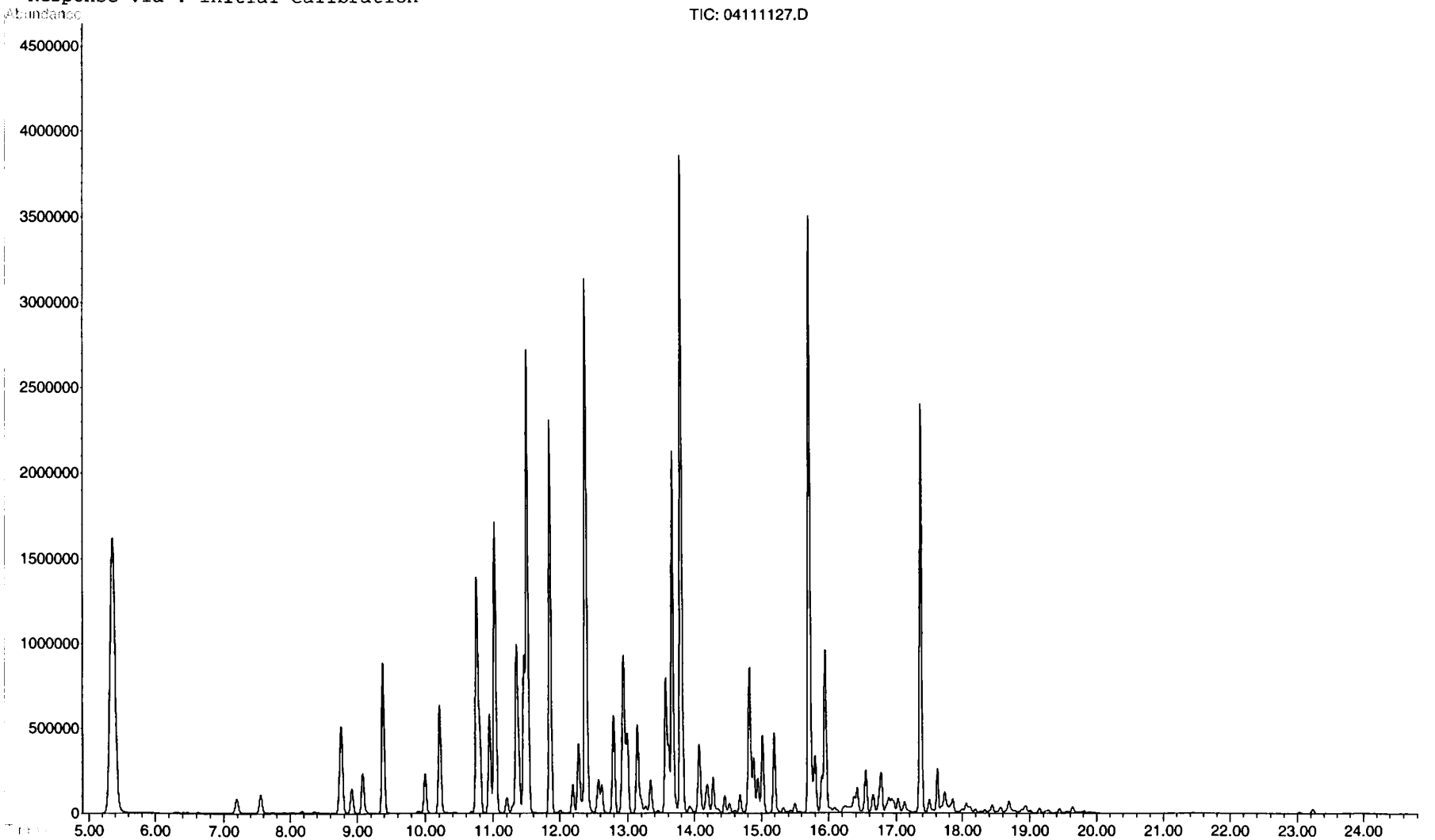
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1762706	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1065307	92.11	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.92%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	13.80	TIC	80338443m	704.37	ug/m3	
23) non C5-C8	6.44	TIC	31332	0.35	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	680269	9.59	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4632909	78.08	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2118495	21.94	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5303680	51.58	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	9049452	89.33	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21816137m	256.53	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	25014125m	347.35	ug/m3	
31) non C9-C12	15.71	TIC	7912001	83.42	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	820446	9.18	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	2332405	26.63	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	610631	7.53	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5378948	84.10	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	17054431m	202.85	ug/m3	
37) C9-C10 Aromatic	17.86	120	100118m	10.17	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	5859m	0.59	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	105977m	10.76	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111127.D 040911V1.M Wed Apr 13 19:13:08 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111127.D Vial: 11
Acq On : 12 Apr 2011 4:33 am Operator: Michael Truchan
Sample : 1103609-006A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:57 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111128.D Vial: 12
Acq On : 12 Apr 2011 5:14 am Operator: Michael Truchan
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:58 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

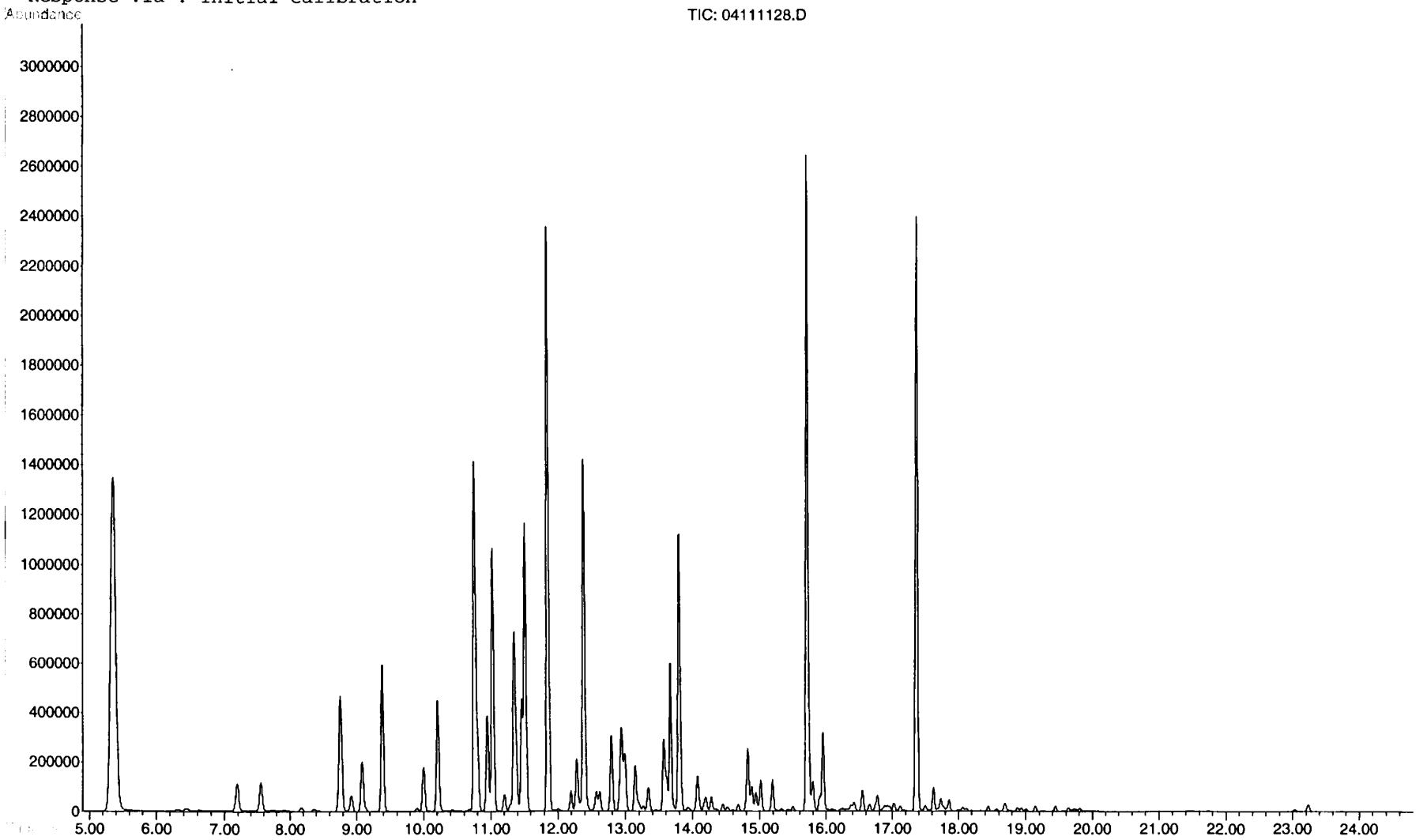
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1765491	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1087339	93.87	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 104.88%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	42486979m	372.51	ug/m3	
23) non C5-C8	6.43	TIC	39353	0.43	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	588615	8.30	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4157100	70.06	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	1083157	11.22	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5450731	53.01	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2759097	27.23	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14078053m	165.54	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	14917901m	207.15	ug/m3	
31) non C9-C12	15.71	TIC	6026467	63.54	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	283592	3.17	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	754707	8.62	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	210946	2.60	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5355478	83.74	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12631190m	150.24	ug/m3	
37) C9-C10 Aromatic	17.86	120	59367m	6.03	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	4218m	0.43	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	63585m	6.46	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111128.D 040911V1.M Wed Apr 13 19:13:14 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111128.D Vial: 12
Acq On : 12 Apr 2011 5:14 am Operator: Michael Truchan
Sample : 1103609-007A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041111\04111129.D Vial: 3
Acq On : 12 Apr 2011 5:56 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:58 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

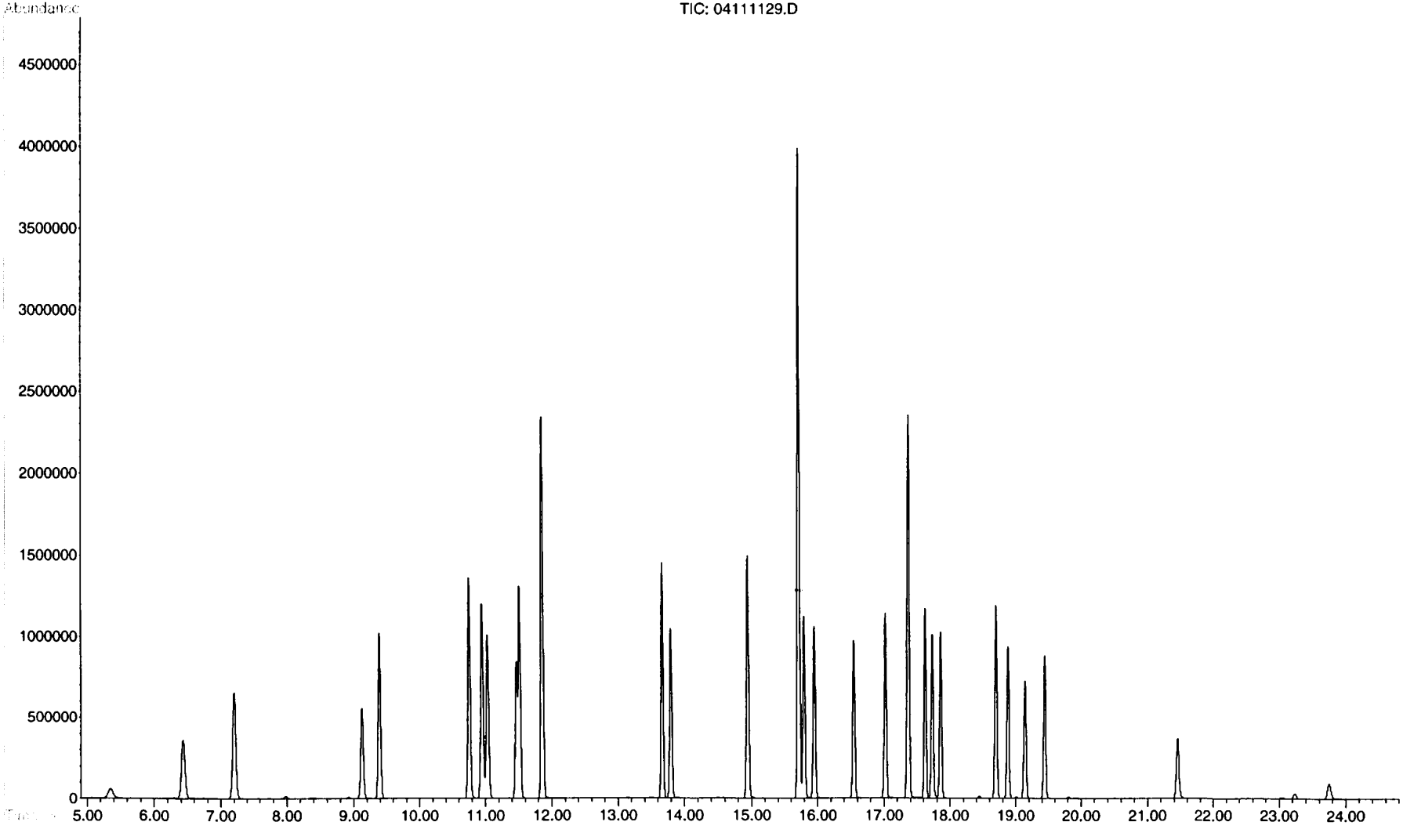
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1821660	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1058218	88.54	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.93%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2179148	17.95	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	2529764	23.23	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	3054960	25.59	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	2636866	22.83	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	2990526	25.85	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	3033022	28.49	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	16424286m	144.00	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3371712	31.88	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	8547263	90.12	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	2377626	33.03	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.69	TIC	2643913	34.65	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	1939512	35.16	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.44	TIC	1051940	35.57	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.44	TIC	19931966m	276.78	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	292317	30.92	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	296118	30.97	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	397244	31.77	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	80442	33.22	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	277062	31.30	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	216812	32.89	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1559995m	158.41	ug/m3	

(#) = qualifier out of range (m) = manual integration
04111129.D 040911V1.M Wed Apr 13 19:13:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041111\04111129.D Vial: 3
Acq On : 12 Apr 2011 5:56 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 13:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Injection Log

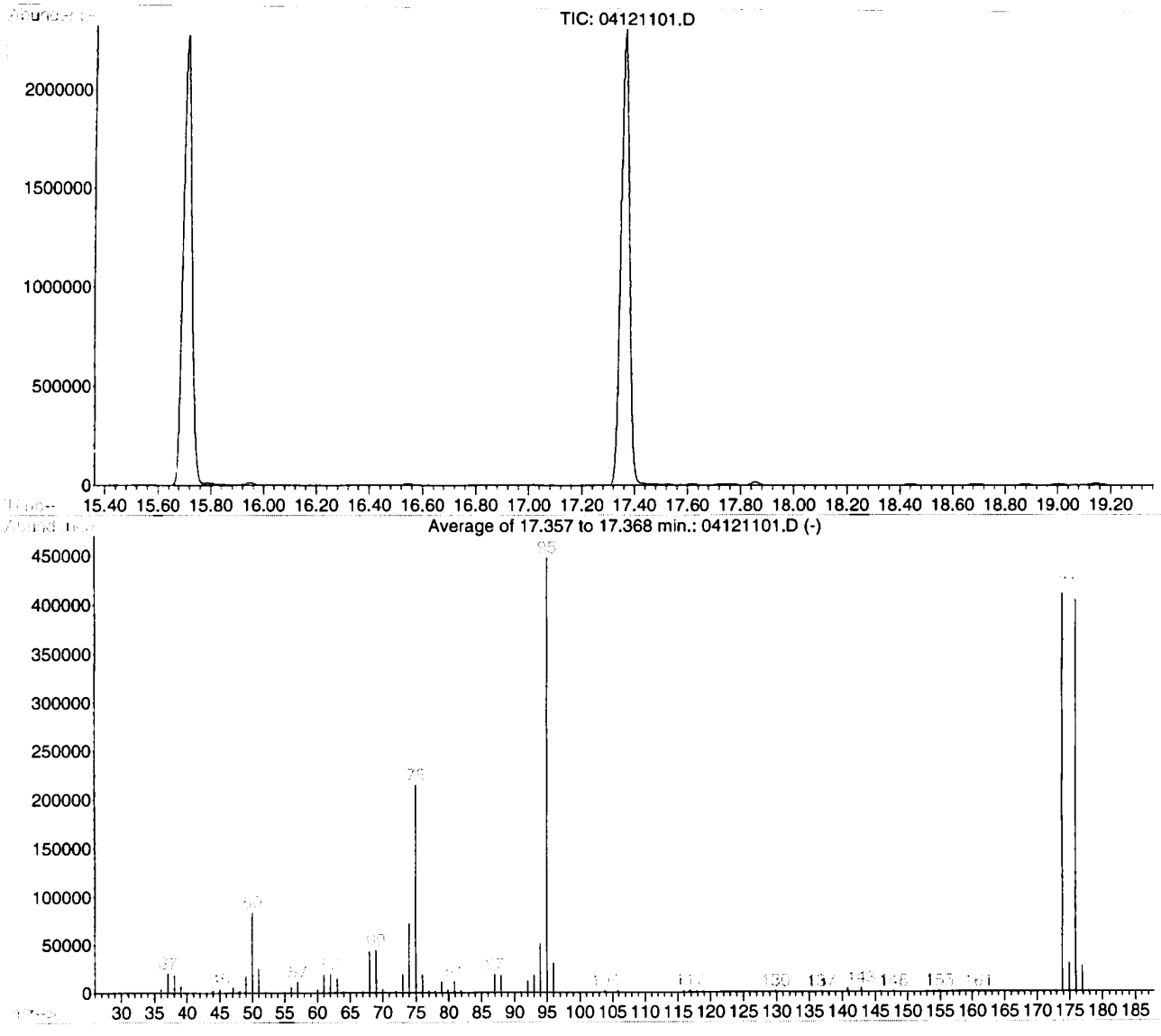
Directory: C:\HPCHEM\1\DATA\041211

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04121101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	12 Apr 2011 10:08
2	2	04121102.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	12 Apr 2011 10:49
3	3	04121103.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	12 Apr 2011 11:29
4	4	04121104.d	1.	MBLK 4/11/11	MBLK MA_APH	12 Apr 2011 12:12
5	5	04121105.d	80000.	1103609-008A	SAMP MA_APH	12 Apr 2011 13:22
6	6	04121106.d	80000.	1103609-008ADUP	DUP MA_APH	12 Apr 2011 14:03
7	6	04121107.d	80000.	1103609-009A	SAMP MA_APH	12 Apr 2011 14:44
8	7	04121108.d	80000.	1103609-010A	SAMP MA_APH	12 Apr 2011 15:24
9	8	04121109.d	8000.	1103609-011A	SAMP MA_APH	12 Apr 2011 16:05
10	9	04121110.d	4000.	1103609-012A	SAMP MA_APH	12 Apr 2011 16:46
11	10	04121111.d	160000.	1103609-013A	SAMP MA_APH	12 Apr 2011 17:27
12	11	04121112.d	40000.	1103609-014A	SAMP MA_APH	12 Apr 2011 18:09
13	12	04121113.d	4000.	1103609-015A	SAMP MA_APH	12 Apr 2011 18:54
14	13	04121114.d	16000.	1103609-016A	SAMP MA_APH	12 Apr 2011 19:34
15	14	04121115.d	800.	1103609-017A – DATA NOT used MTBE 4/15/11	SAMP MA_APH	12 Apr 2011 20:15
16	15	04121116.d	40000.	1103609-018A	SAMP MA_APH	12 Apr 2011 20:55
17	16	04121117.d	8000.	1103609-019A	SAMP MA_APH	12 Apr 2011 21:37
18	17	04121118.d	8000.	1103609-020A	SAMP MA_APH	12 Apr 2011 22:18
19	18	04121119.d	8000.	1103609-021A	SAMP MA_APH	12 Apr 2011 22:59
20	19	04121120.d	16000.	1103609-022A	SAMP MA_APH	12 Apr 2011 23:39
21	20	04121121.d	1600.	1103609-023A	SAMP MA_APH	13 Apr 2011 00:22
22	21	04121122.d	400.	1103609-024A	SAMP MA_APH	13 Apr 2011 01:06
23	22	04121123.d	80000.	1103609-025A	SAMP MA_APH	13 Apr 2011 01:47
24	23	04121124.d	160000.	1103609-026A	SAMP MA_APH	13 Apr 2011 02:28
25	24	04121125.d	160000.	1103609-027A	SAMP MA_APH	13 Apr 2011 03:09
26	25	04121126.d	0.	CLEAN CHECK 67 4/12/11	SAMP MA_APH	13 Apr 2011 03:53
27	26	04121127.d	0.	CLEAN CHECK 4 4/12/11	SAMP MA_APH	13 Apr 2011 04:37
28	27	04121128.d	0.	NEW BOTTLE COMANY	SAMP MA_APH	13 Apr 2011 05:22
29	3	04121129.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	13 Apr 2011 09:04
30	25	04121130.d	0.	CLEAN CHECK 67 4/12/11	SAMP MA_APH	13 Apr 2011 14:01

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\041211\04121101.D
Acq On : 12 Apr 2011 10:08 am
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Average of 17.357 to 17.368 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.7	83984	PASS
75	95	30	60	47.9	214720	PASS
95	95	100	100	100.0	447979	PASS
96	95	5	9	6.8	30504	PASS
173	174	0.00	2	0.3	1082	PASS
174	95	50	120	91.6	410517	PASS
175	174	4	9	7.3	29829	PASS
176	174	93	101	98.4	404011	PASS
177	176	5	9	6.7	27091	PASS

04121101.D 040911V1.M Wed Apr 13 19:15:46 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121102.D Vial: 2
Acq On : 12 Apr 2011 10:49 am Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:09 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

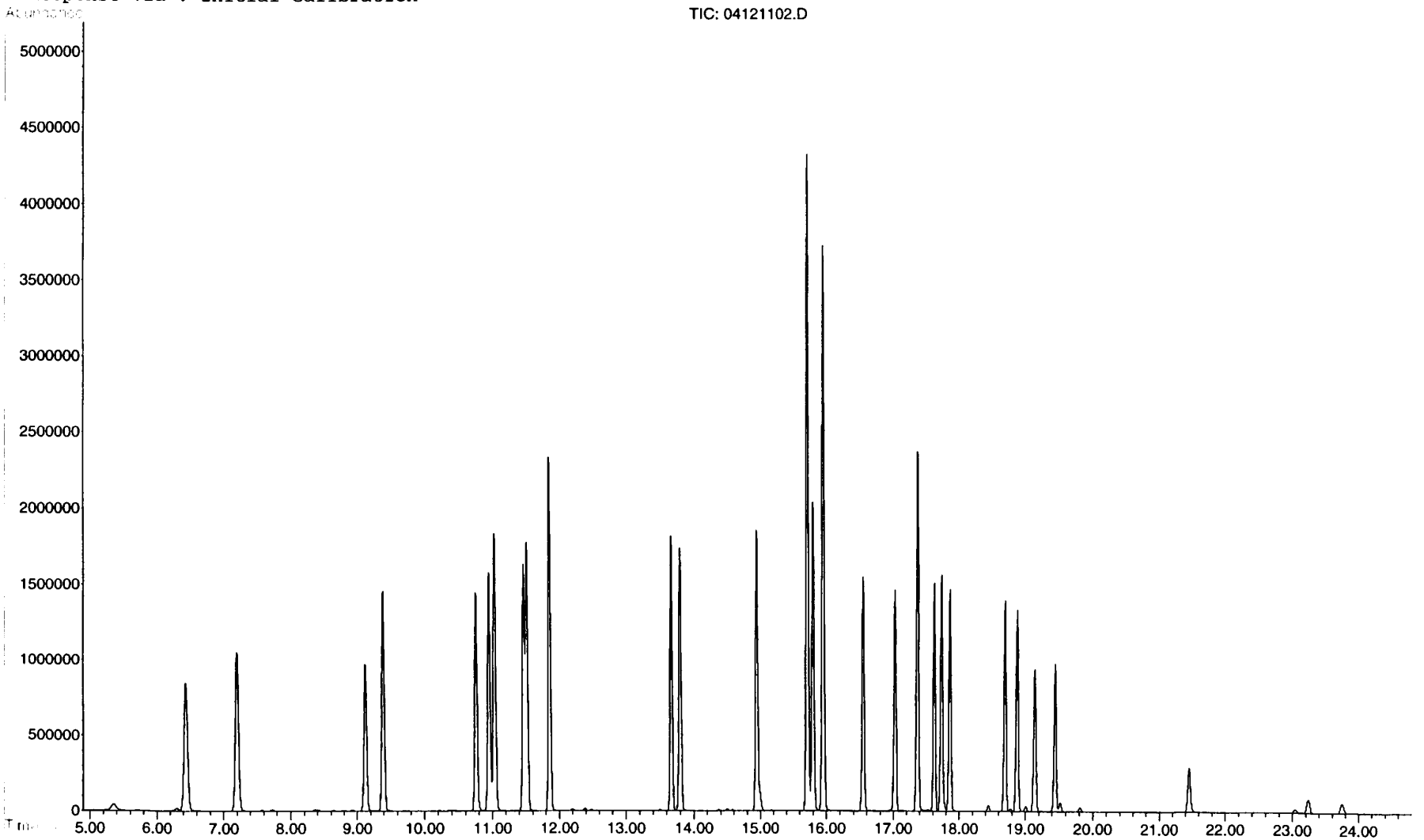
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1819913	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1054752	88.33	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.69%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.19	TIC	3508097	28.90	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	3639662	33.42	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	4019912	33.67	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	4716653	40.84	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	3627562	31.36	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.66	TIC	3845332	36.12	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.19	TIC	23357218m	204.79	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	4443465	42.01	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	9242231	97.45	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	3053654	42.43	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.69	TIC	3157219	41.37	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	2133080	38.67	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	851746	28.80	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	22881395m	317.73	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	377912	39.98	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	457208	47.82	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	561742	44.93	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.87	120	115745	47.81	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	359780	40.64	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	320255	48.59	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2192642m	222.65	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121102.D 040911V1.M Wed Apr 13 19:16:00 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121102.D Vial: 2
Acq On : 12 Apr 2011 10:49 am Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:09 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121103.D Vial: 3
Acq On : 12 Apr 2011 11:29 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:09 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

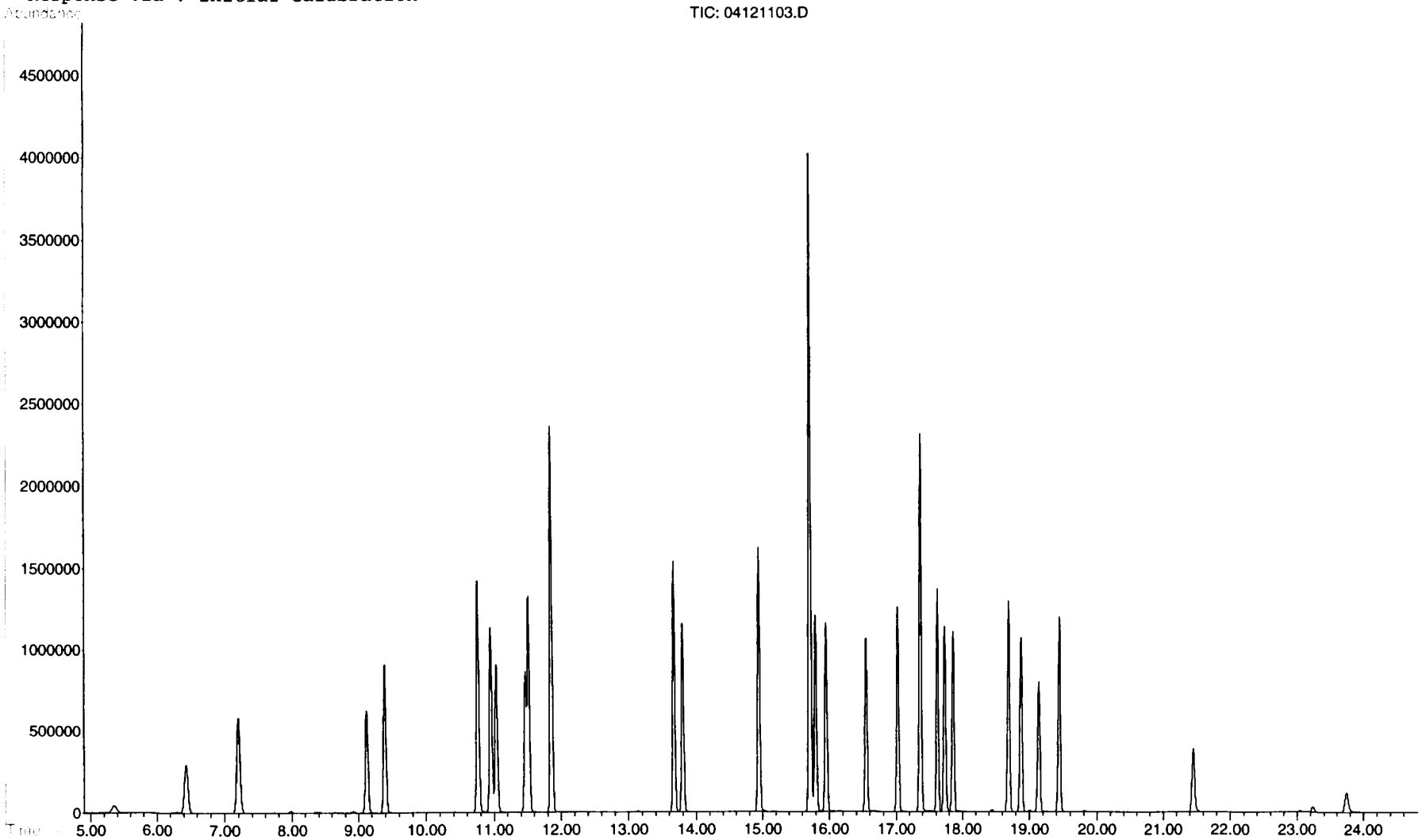
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1796176	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1039096	88.17	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.51%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	1951742	16.08	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2275367	20.90	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	2957514	24.77	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2361624	20.45	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	2894192	25.02	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.66	TIC	3227261	30.32	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	15667700m	137.37	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3610397	34.14	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8660789	91.32	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2738678	38.05	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2893798	37.92	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	2621156	47.51	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	1116461	37.75	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	21641279m	300.51	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	320163	33.87	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	323305	33.81	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.85	120	436565	34.92	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	93883	38.78	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	309637	34.98	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	256213	38.87	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1739766m	176.66	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121103.D 040911V1.M Wed Apr 13 19:16:04 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121103.D Vial: 3
Acq On : 12 Apr 2011 11:29 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:09 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121104.D Vial: 4
Acq On : 12 Apr 2011 12:12 pm Operator: Michael Truchan
Sample : MBLK 4/11/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:10 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

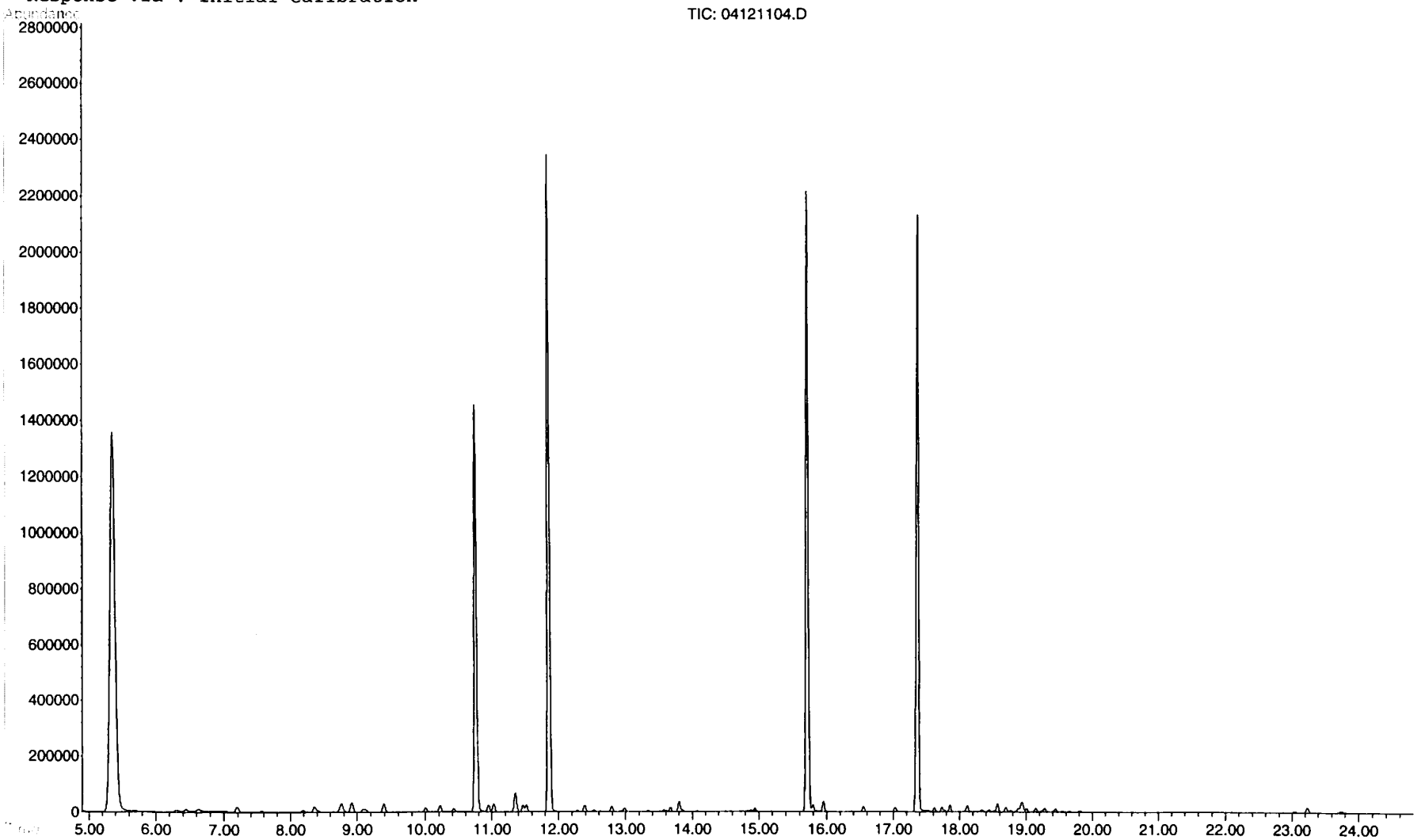
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1676051	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	960788	87.37	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 97.62%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	10556333m	92.55	ug/m3	
23) non C5-C8	6.44	TIC	22904	0.25	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	47350	0.67	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3603557	60.73	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	54194	0.56	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5342434	51.96	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	88734	0.88	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	9159173m	107.70	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10628037m	147.58	ug/m3	
31) non C9-C12	15.71	TIC	4999938	52.72	ug/m3	100
32) non C9-C12 (2)	15.79	TIC	50361	0.56	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	78350	0.89	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	41381	0.51	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	4731673	73.98	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	9901703m	117.77	ug/m3	
37) C9-C10 Aromatic	17.85	120	31912m	3.24	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	2691m	0.27	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	34603m	3.51	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121104.D 040911V1.M Wed Apr 13 19:16:08 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121104.D Vial: 4
Acq On : 12 Apr 2011 12:12 pm Operator: Michael Truchan
Sample : MBLK 4/11/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:10 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121105.D Vial: 5
Acq On : 12 Apr 2011 1:22 pm Operator: Michael Truchan
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:10 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

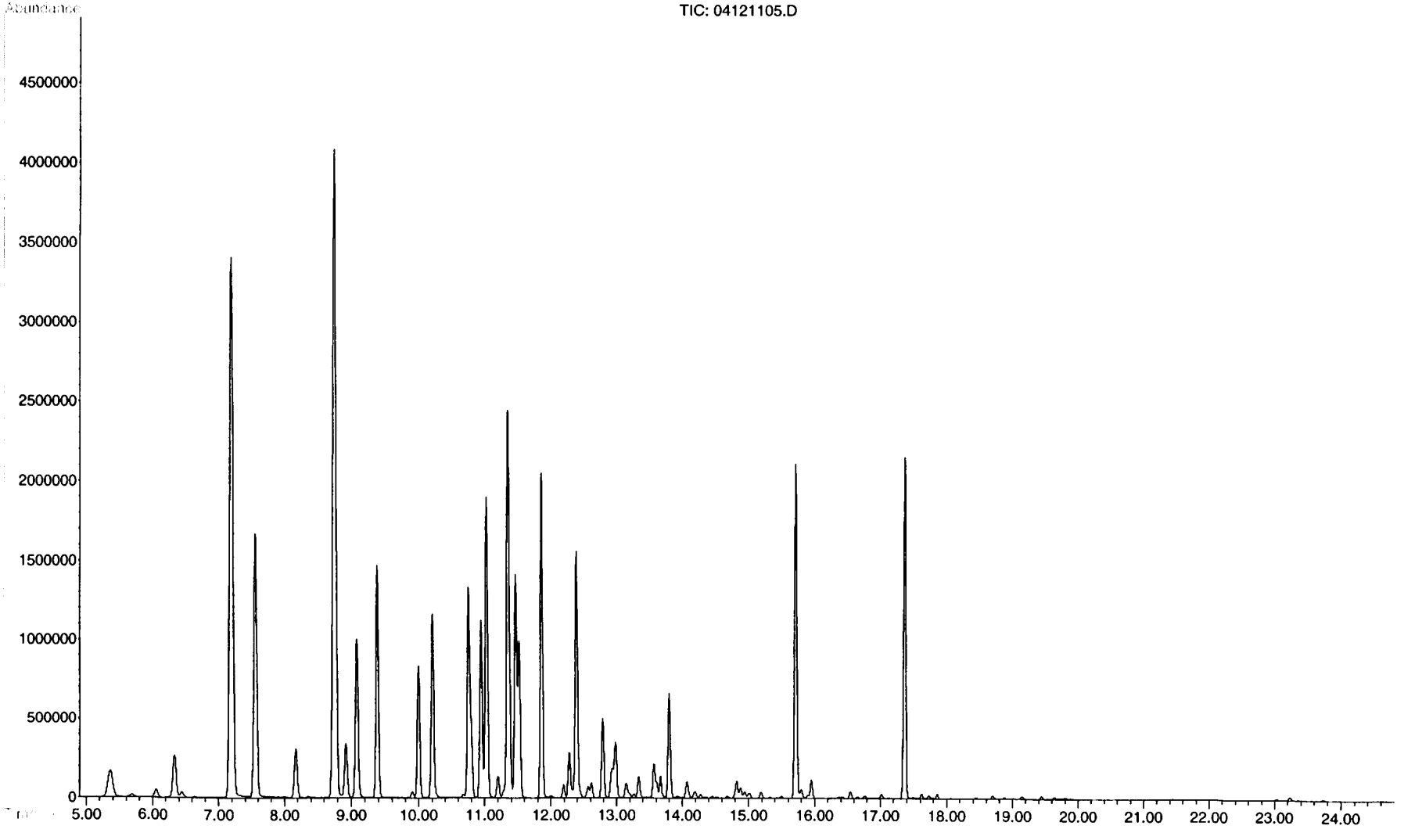
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1581090	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	970097	93.52	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 104.49%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	88709815m	777.77	ug/m3	
23) non C5-C8	6.45	TIC	128441	1.41	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	2815726	39.71	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4265888	71.89	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	3715086	38.48	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	4712247	45.83	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1651125	16.30	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17288513m	203.29	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	11026005m	153.11	ug/m3	
31) non C9-C12	15.71	TIC	4852184	51.16	ug/m3	100
32) non C9-C12 (2)	15.79	TIC	139263	1.56	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	283097	3.23	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	108307	1.34	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	4769085	74.57	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10151936m	120.75	ug/m3	
37) C9-C10 Aromatic	17.85	120	36664m	3.72	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	2618m	0.27	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	39282m	3.99	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121105.D 040911V1.M Wed Apr 13 19:16:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121105.D Vial: 5
Acq On : 12 Apr 2011 1:22 pm Operator: Michael Truchan
Sample : 1103609-008A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:10 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121106.D Vial: 6
Acq On : 12 Apr 2011 2:03 pm Operator: Michael Truchan
Sample : 1103609-008ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:11 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

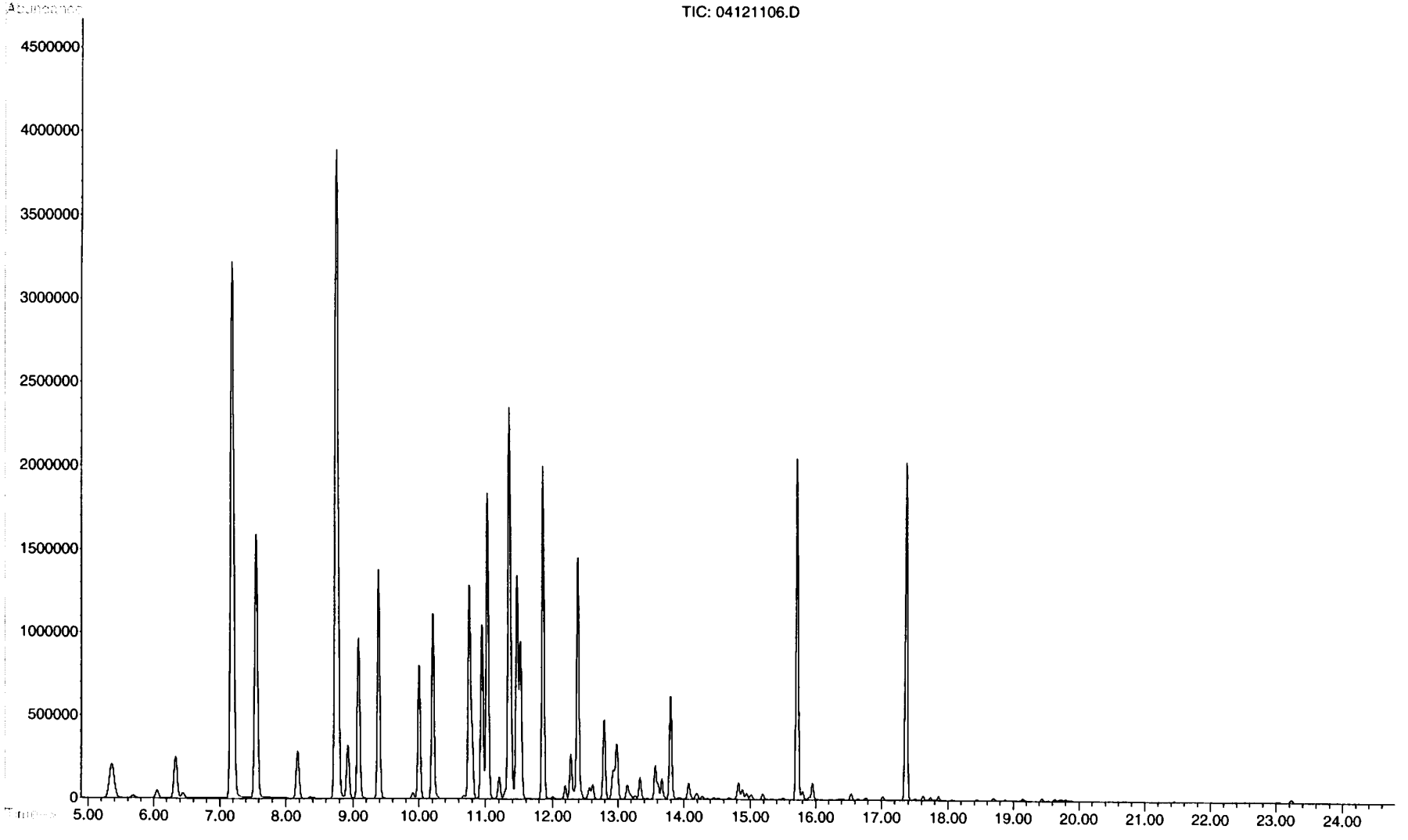
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1527678	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	920419	91.83	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.60%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	84460463m	740.51	ug/m3	
23) non C5-C8	6.44	TIC	115793	1.28	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2666676	37.61	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4118861	69.41	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3432848	35.55	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4588476	44.62	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1542453	15.23	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	16465107m	193.61	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10482412m	145.56	ug/m3	
31) non C9-C12	15.71	TIC	4679269	49.34	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	128360	1.44	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	252833	2.89	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	94563	1.17	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4527366	70.79	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	9682391m	115.16	ug/m3	
37) C9-C10 Aromatic	17.86	120	32284m	3.28	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	2499m	0.25	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	34783m	3.53	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121106.D 040911V1.M Wed Apr 13 19:16:23 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121106.D Vial: 6
Acq On : 12 Apr 2011 2:03 pm Operator: Michael Truchan
Sample : 1103609-008ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:11 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121107.D Vial: 6
Acq On : 12 Apr 2011 2:44 pm Operator: Michael Truchan
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:13 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

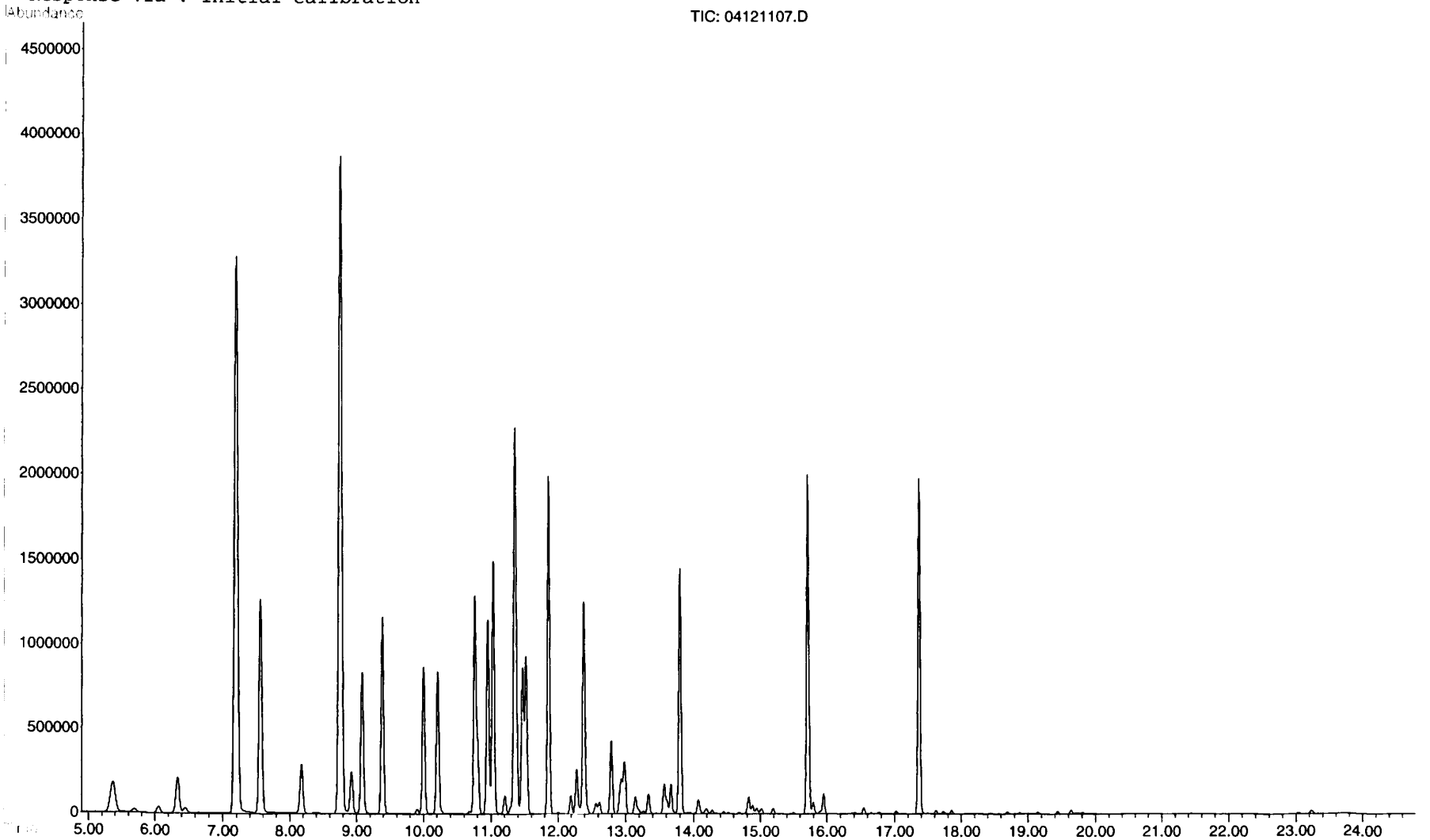
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1503051	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	908972	92.17	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.98%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	80652311m	707.12	ug/m3	
23) non C5-C8	6.45	TIC	113601	1.25	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	2323540	32.77	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4045122	68.17	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	2252281	23.33	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4596262	44.70	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	3417586	33.73	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	16748392m	196.94	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10338318m	143.56	ug/m3	
31) non C9-C12	15.71	TIC	4617032	48.68	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	171687	1.92	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	284744	3.25	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	85703	1.06	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4480642	70.06	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	9639808m	114.66	ug/m3	
37) C9-C10 Aromatic	17.86	120	30839m	3.13	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2204m	0.22	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	33043m	3.36	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121107.D 040911V1.M Wed Apr 13 19:16:27 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121107.D Vial: 6
Acq On : 12 Apr 2011 2:44 pm Operator: Michael Truchan
Sample : 1103609-009A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:13 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121108.D Vial: 7
Acq On : 12 Apr 2011 3:24 pm Operator: Michael Truchan
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:13 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

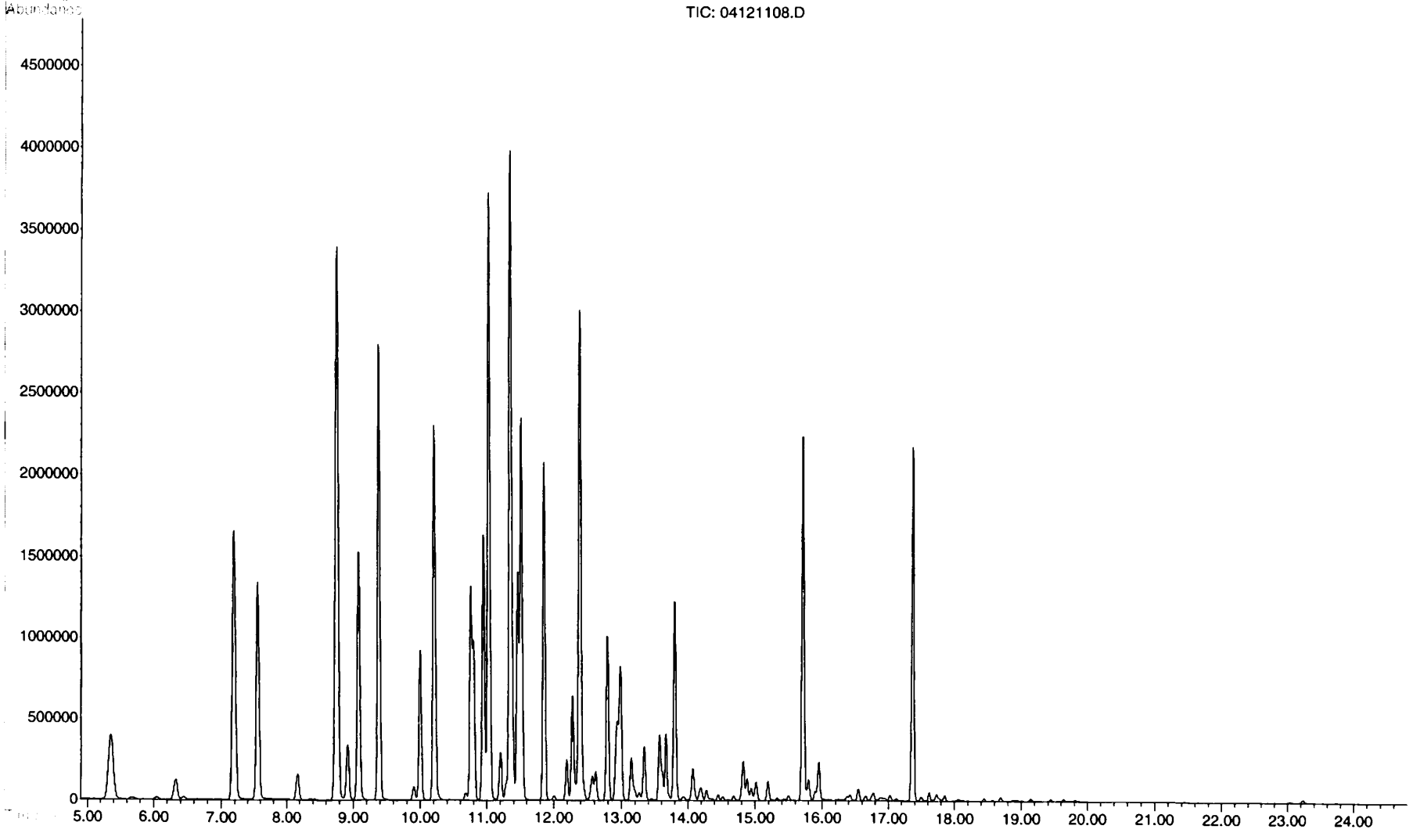
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1595196	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	971800	92.85	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.74%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	116555490m	1021.91	ug/m3	
23) non C5-C8	6.44	TIC	71384	0.79	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	4258726	60.06	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3377639	56.92	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	3318166	34.36	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	4710487	45.81	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	3072909	30.33	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	18809311m	221.17	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	13058491m	181.33	ug/m3	
31) non C9-C12	15.72	TIC	5209465	54.93	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	330837	3.70	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	562884	6.43	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	186109	2.29	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	4789600	74.89	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11078895m	131.77	ug/m3	
37) C9-C10 Aromatic	17.86	120	50576m	5.14	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	2685m	0.27	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	53261m	5.41	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121108.D 040911V1.M Wed Apr 13 19:16:31 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121108.D Vial: 7
Acq On : 12 Apr 2011 3:24 pm Operator: Michael Truchan
Sample : 1103609-010A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:13 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121109.D Vial: 8
Acq On : 12 Apr 2011 4:05 pm Operator: Michael Truchan
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:14 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

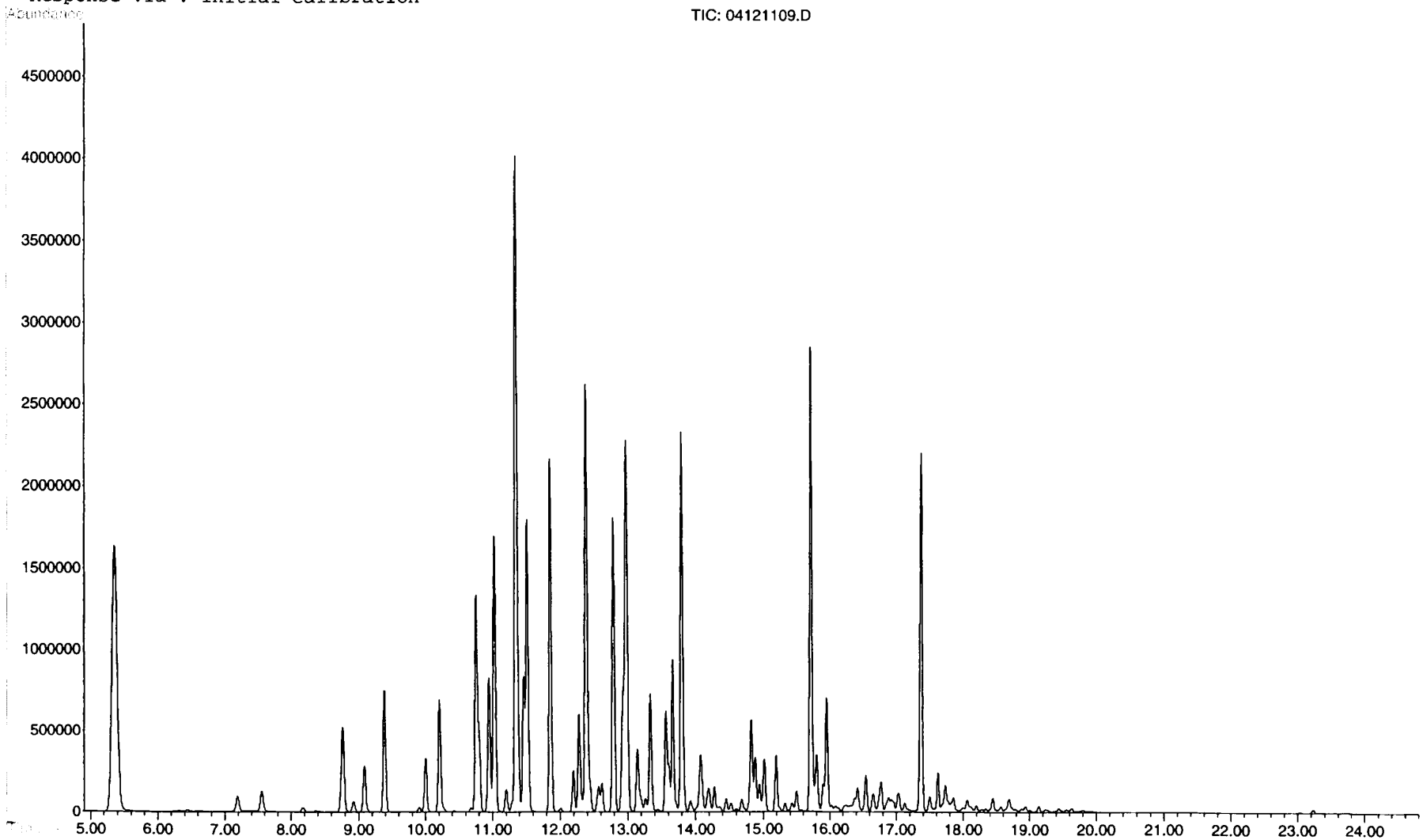
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1650373	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	977082	90.23	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.82%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	86421955m	757.71	ug/m3	
23) non C5-C8	6.43	TIC	34210	0.38	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	800157	11.28	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4389478	73.97	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2058087	21.31	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	4960046	48.24	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	5668364	55.95	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17910342m	210.60	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	22953465m	318.73	ug/m3	
31) non C9-C12	15.71	TIC	6558685	69.15	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	878927	9.83	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	1675674	19.13	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	540989	6.67	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4987788	77.99	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	14642063m	174.16	ug/m3	
37) C9-C10 Aromatic	18.45	120	141076m	14.33	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	15962m	1.62	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	157038m	15.95	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121109.D 040911V1.M Wed Apr 13 19:16:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121109.D Vial: 8
Acq On : 12 Apr 2011 4:05 pm Operator: Michael Truchan
Sample : 1103609-011A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:14 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121110.D Vial: 9
Acq On : 12 Apr 2011 4:46 pm Operator: Michael Truchan
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:15 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

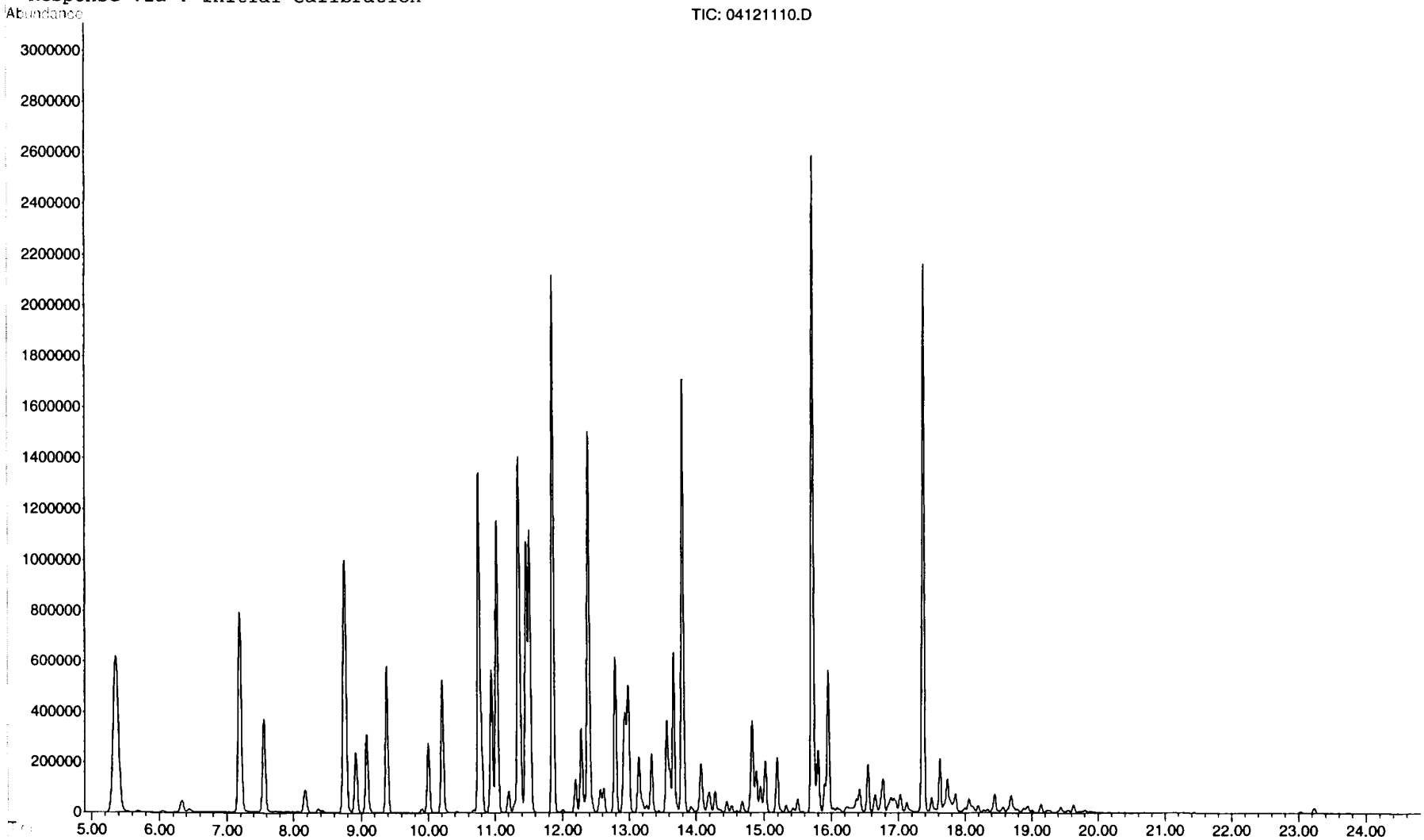
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1614032	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	977445	92.30	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.13%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	58715650m	514.79	ug/m3	
23) non C5-C8	6.44	TIC	55469	0.61	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	882290	12.44	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3960669	66.75	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	2625988	27.20	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	4893163	47.59	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	4131500	40.78	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	16549079m	194.59	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	19148103m	265.89	ug/m3	
31) non C9-C12	15.71	TIC	5996856	63.23	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	620029	6.94	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	1356778	15.49	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	452866	5.58	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	4904904	76.69	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	13331433m	158.57	ug/m3	
37) C9-C10 Aromatic	18.44	120	121913m	12.38	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	11340m	1.15	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	133253m	13.53	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121110.D 040911V1.M Wed Apr 13 19:16:41 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121110.D Vial: 9
Acq On : 12 Apr 2011 4:46 pm Operator: Michael Truchan
Sample : 1103609-012A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:15 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121111.D Vial: 10
Acq On : 12 Apr 2011 5:27 pm Operator: Michael Truchan
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:15 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

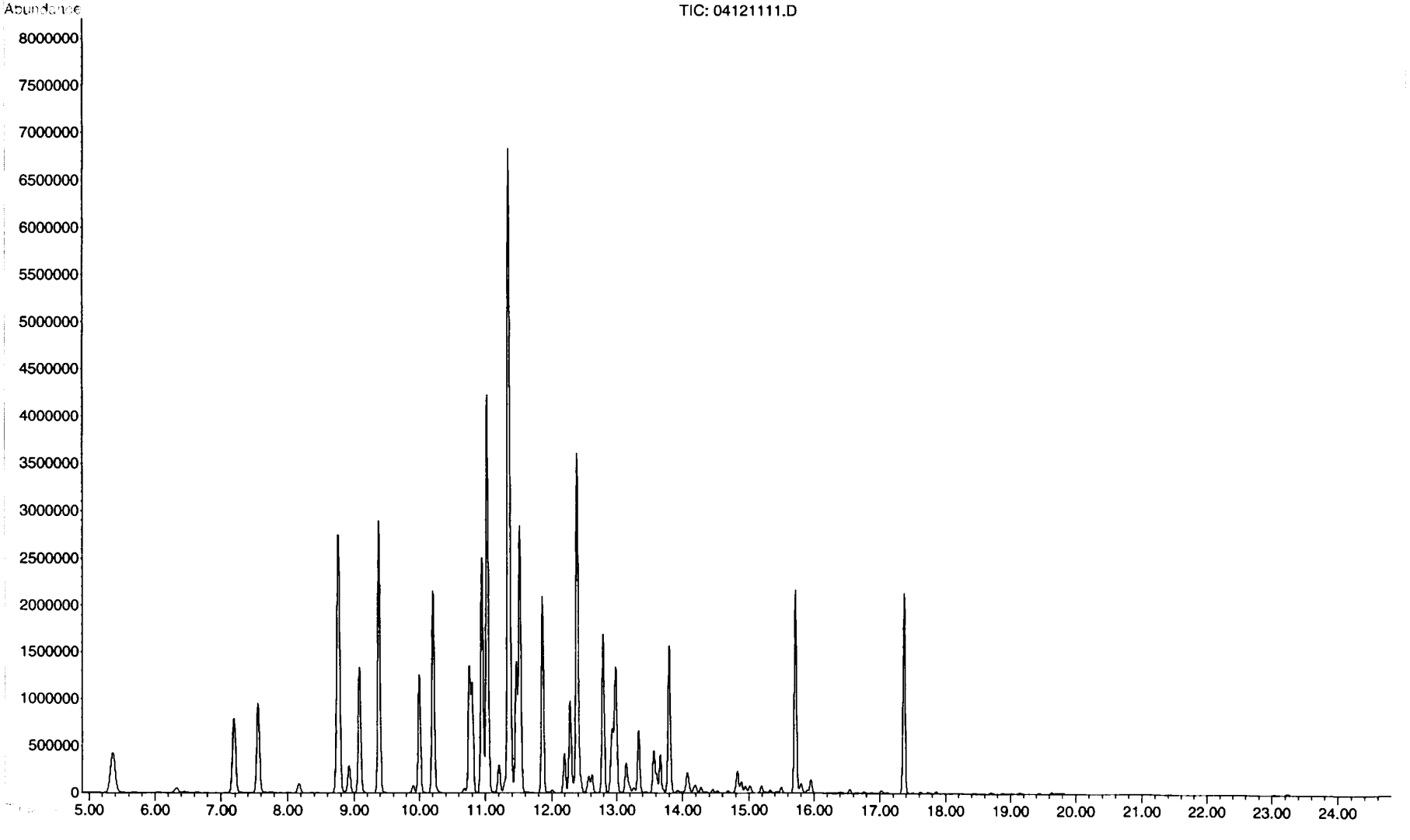
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1607112	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	976163	92.58	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.44%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.35	TIC	132125344m	1158.42	ug/m3	
23) non C5-C8	6.44	TIC	52936	0.58	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	3751539	52.91	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3472459	58.52	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	3302841	34.21	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	4806532	46.74	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	3900189	38.50	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19286496m	226.78	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11558250m	160.50	ug/m3	
31) non C9-C12	15.71	TIC	5027761	53.01	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	257494	2.88	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	350977	4.01	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	107420	1.32	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	4786046	74.83	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10529698m	125.24	ug/m3	
37) C9-C10 Aromatic	17.85	120	32523m	3.30	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	2537m	0.26	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	35060m	3.56	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121111.D 040911V1.M Wed Apr 13 19:16:47 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121111.D Vial: 10
Acq On : 12 Apr 2011 5:27 pm Operator: Michael Truchan
Sample : 1103609-013A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:15 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121112.D Vial: 11
Acq On : 12 Apr 2011 6:09 pm Operator: Michael Truchan
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:15 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

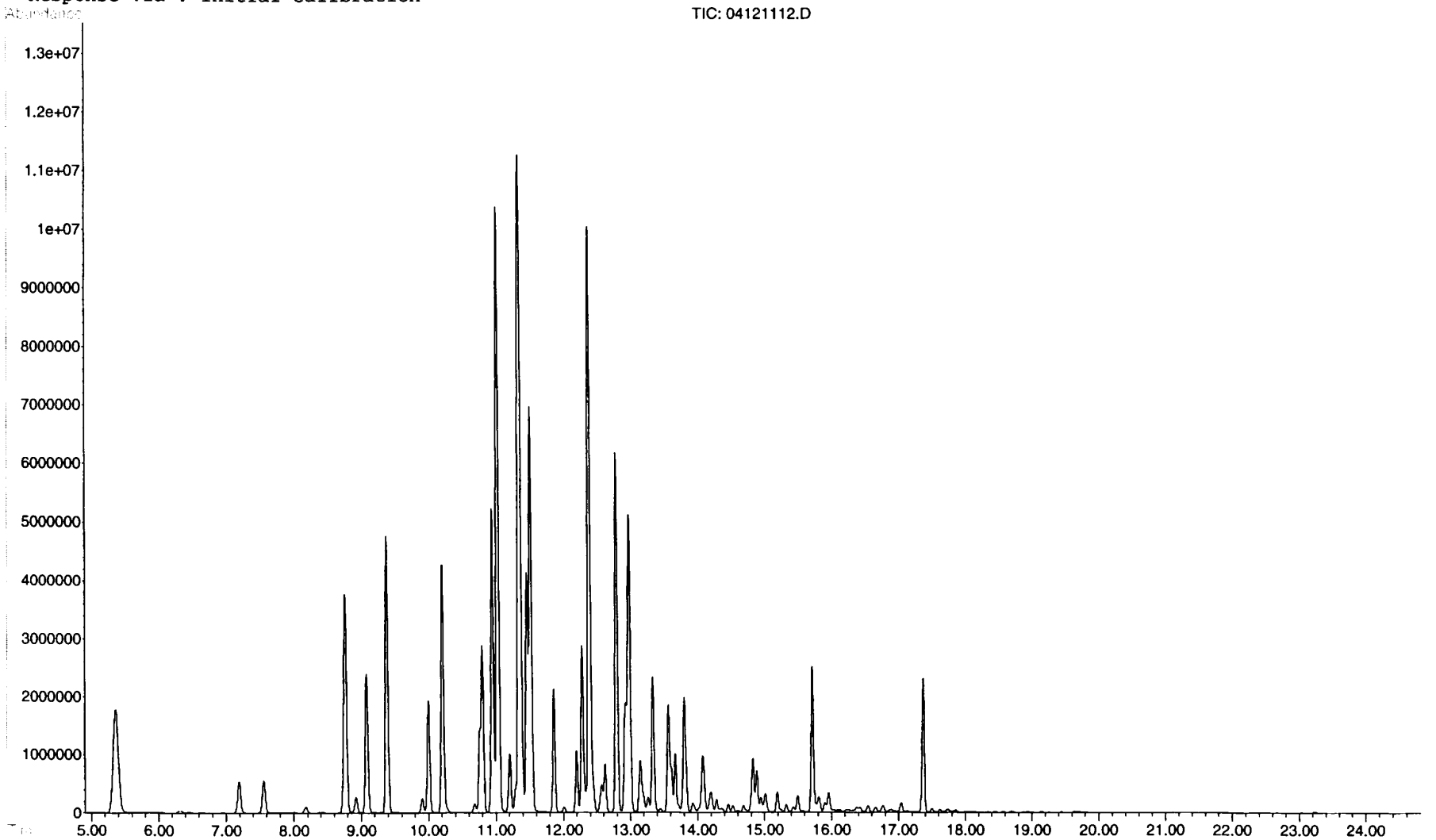
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1695513	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1049692	94.36	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 105.43%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.36	TIC	295030187m	2586.69	ug/m3	
23) non C5-C8	6.45	TIC	49895	0.55	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	6556760	92.47	ug/m3	100
25) non C5-C8 (3)	10.80	TIC	10127515	170.67	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	9952855	103.08	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	4901742	47.67	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	5628322	55.56	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	37217089m	437.62	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	18309987m	254.25	ug/m3	
31) non C9-C12	15.71	TIC	5940895	62.64	ug/m3	100
32) non C9-C12 (2)	15.81	TIC	697753	7.81	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	810635	9.25	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	310719	3.83	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	5300533	82.88	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	13060535m	155.34	ug/m3	
37) C9-C10 Aromatic	17.86	120	50409m	5.12	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	3142m	0.32	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	53551m	5.44	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121112.D 040911V1.M Wed Apr 13 19:16:51 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121112.D Vial: 11
Acq On : 12 Apr 2011 6:09 pm Operator: Michael Truchan
Sample : 1103609-014A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:15 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121113.D Vial: 12
Acq On : 12 Apr 2011 6:54 pm Operator: Michael Truchan
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:16 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

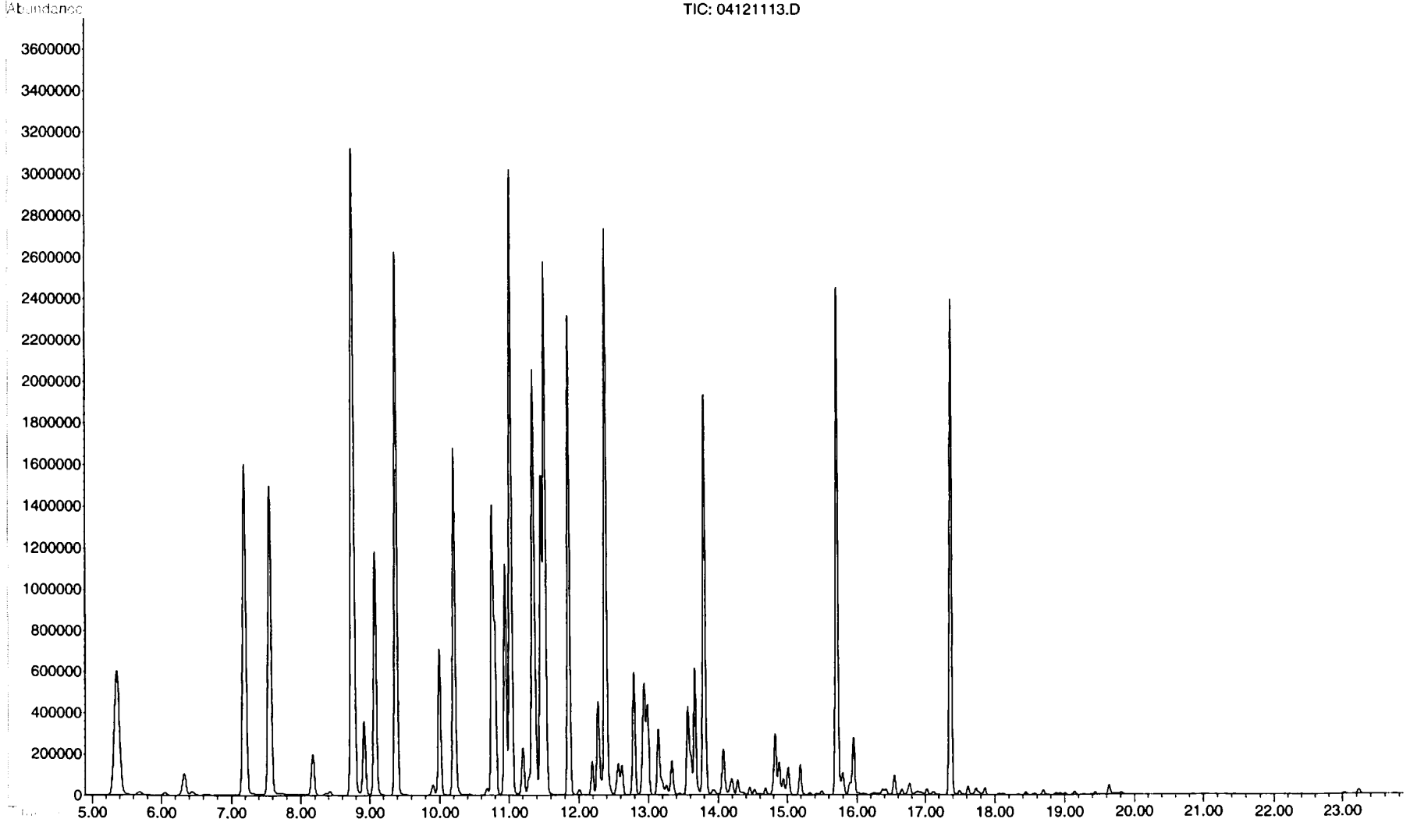
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1731193	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1074522	94.60	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 105.70%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.76	TIC	103619496m	908.49	ug/m3	
23) non C5-C8	6.44	TIC	64157	0.71	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	3284469	46.32	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	5290827	89.16	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	3568184	36.95	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5276880	51.32	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	4690584	46.30	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	22175101m	260.75	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	13976828m	194.08	ug/m3	
31) non C9-C12	15.71	TIC	5724626	60.36	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	258654	2.89	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	660404	7.54	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	239348	2.95	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5303024	82.92	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12186056m	144.94	ug/m3	
37) C9-C10 Aromatic	17.86	120	43196m	4.39	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	2324m	0.24	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	45520m	4.62	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121113.D 040911V1.M Wed Apr 13 19:16:58 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121113.D Vial: 12
Acq On : 12 Apr 2011 6:54 pm Operator: Michael Truchan
Sample : 1103609-015A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 4000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:16 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121114.D Vial: 13
Acq On : 12 Apr 2011 7:34 pm Operator: Michael Truchan
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 16000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:17 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

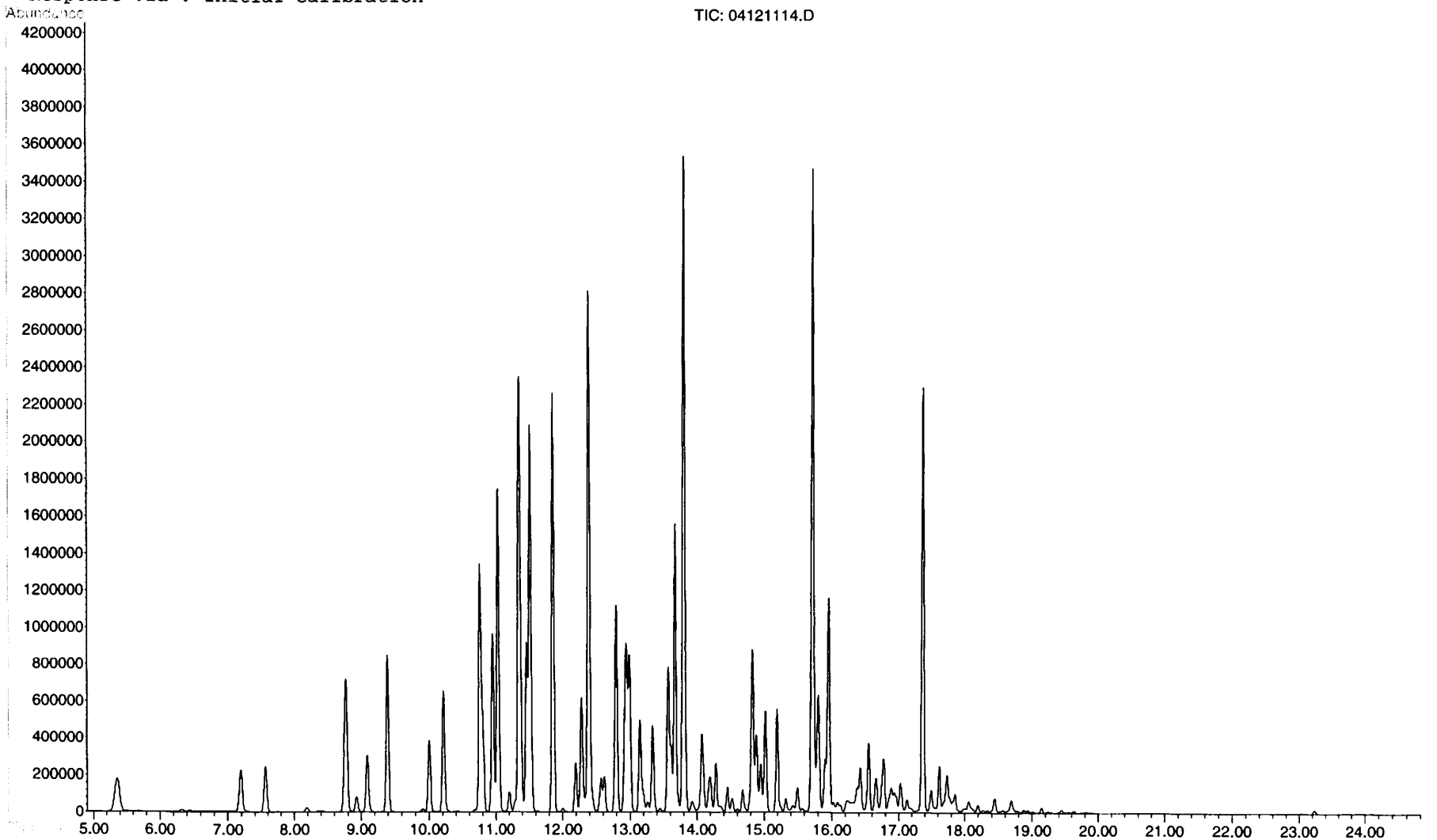
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1746607	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1030271	89.90	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.45%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	13.80	TIC	88370090m	774.79	ug/m3	
23) non C5-C8	6.44	TIC	26631	0.29	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	874901	12.34	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4467727	75.29	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2230837	23.10	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5136071	49.95	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	8436225	83.27	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21172392m	248.96	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	28390760m	394.24	ug/m3	
31) non C9-C12	15.71	TIC	7898345	83.28	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	1612751	18.04	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	2817145	32.16	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	899794	11.10	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5277915	82.52	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	18505950m	220.11	ug/m3	
37) C9-C10 Aromatic	17.73	120	169873m	17.25	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	9873m	1.00	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	179746m	18.25	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121114.D Vial: 13
Acq On : 12 Apr 2011 7:34 pm Operator: Michael Truchan
Sample : 1103609-016A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 16000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:17 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121116.D Vial: 15
Acq On : 12 Apr 2011 8:55 pm Operator: Michael Truchan
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:17 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

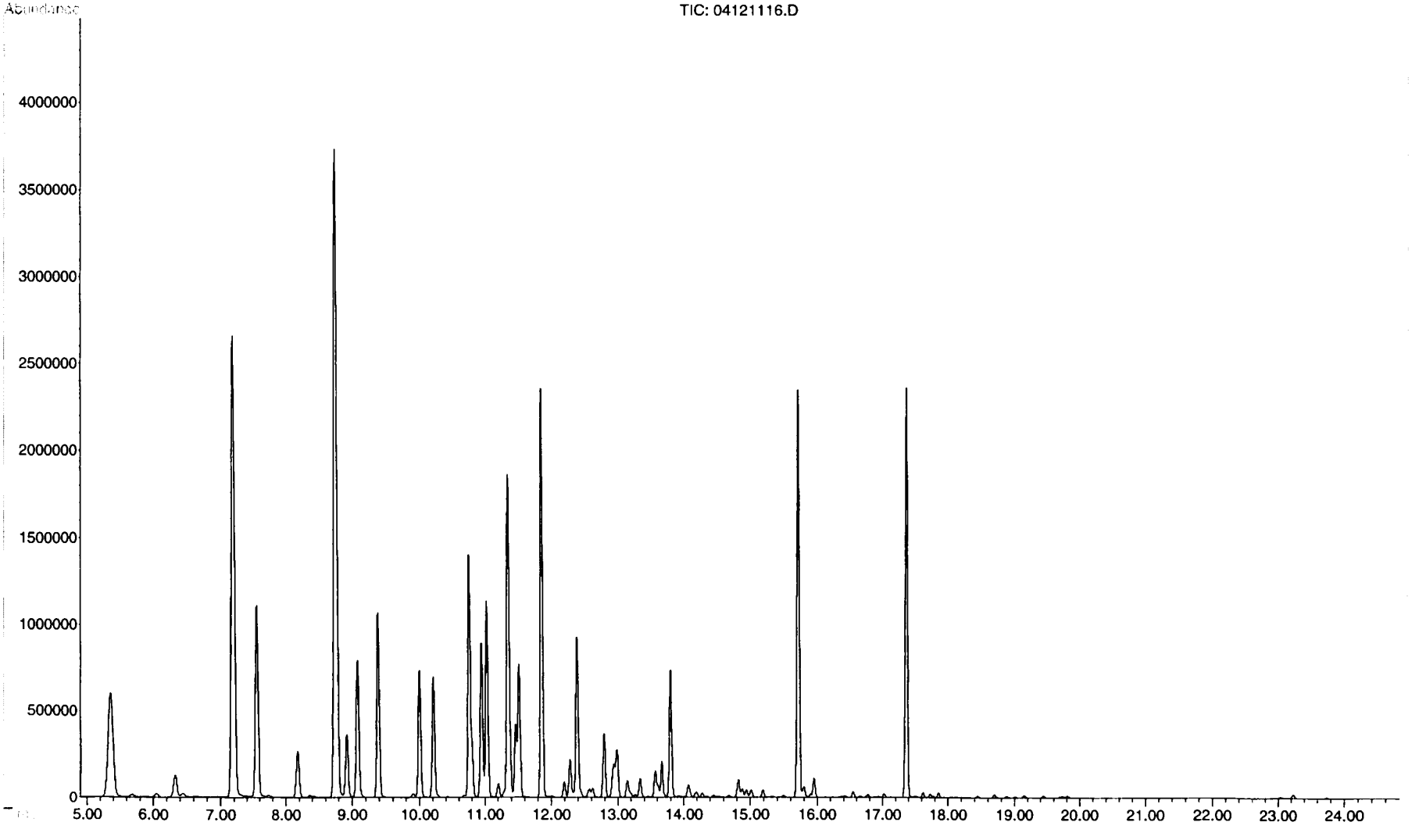
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1737604	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1062046	93.16	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 104.09%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.75	TIC	69647435m	610.64	ug/m3	
23) non C5-C8	6.44	TIC	84557	0.93	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	2201353	31.04	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4127646	69.56	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	1091280	11.30	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5412756	52.64	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1769605	17.47	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14687197m	172.70	ug/m3	
30) C9-C12 Aliphatic	17.36	TIC	11847136m	164.51	ug/m3	
31) non C9-C12	15.71	TIC	5404952	56.99	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	154096	1.72	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	267775	3.06	ug/m3	100
34) non C9-C12 (4)	16.54	TIC	76599	0.94	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5208293	81.43	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11111715m	132.17	ug/m3	
37) C9-C10 Aromatic	17.85	120	36230m	3.68	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	2804m	0.28	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	39034m	3.96	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121116.D 040911V1.M Wed Apr 13 19:17:13 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121116.D Vial: 15
Acq On : 12 Apr 2011 8:55 pm Operator: Michael Truchan
Sample : 1103609-018A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 40000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:17 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121117.D Vial: 16
Acq On : 12 Apr 2011 9:37 pm Operator: Michael Truchan
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:18 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

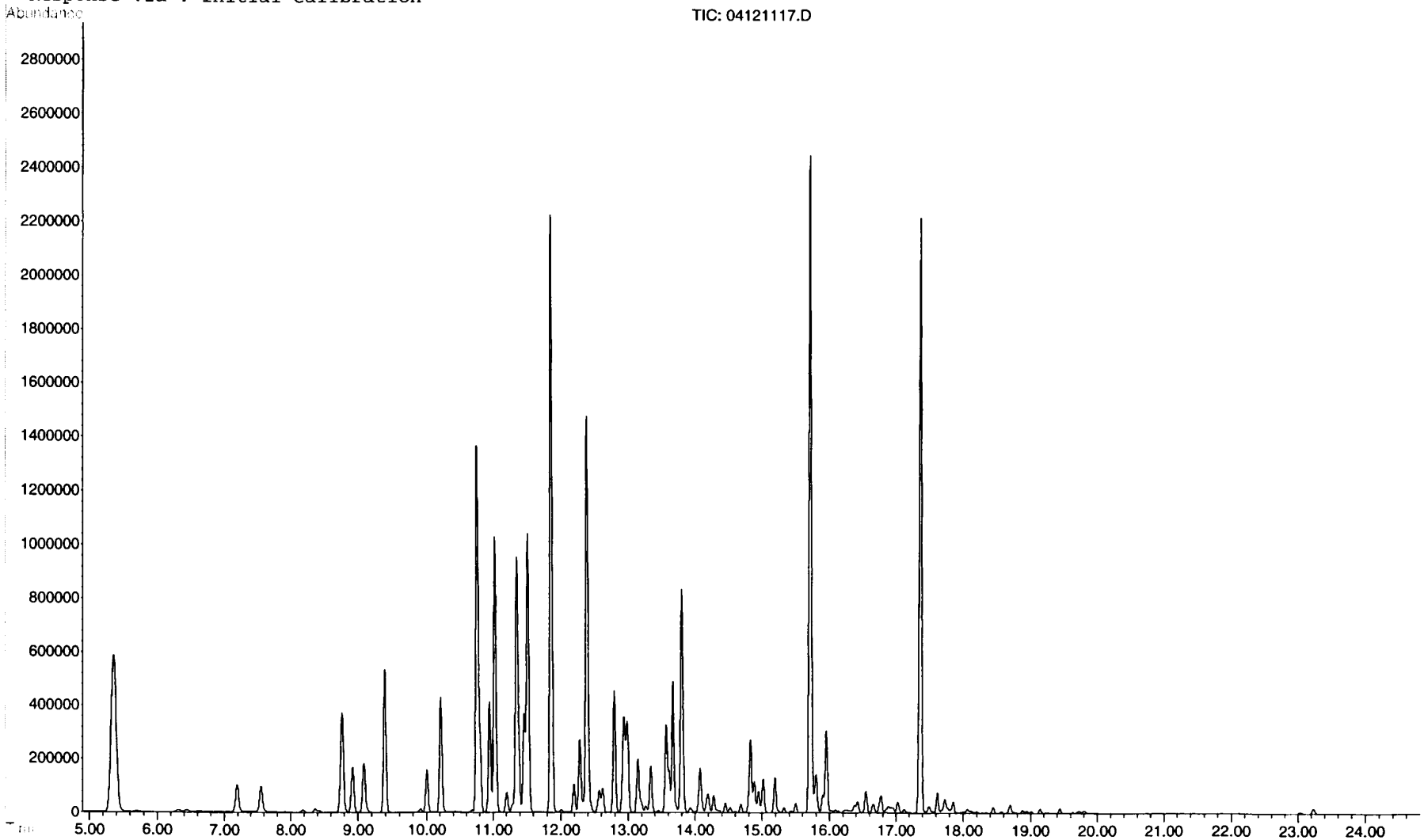
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1677636	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1006673	91.46	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.19%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	42734063m	374.67	ug/m3	
23) non C5-C8	6.44	TIC	22160	0.24	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	530234	7.48	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4066727	68.53	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	893494	9.25	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5143414	50.02	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2110884	20.84	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	12766913m	150.12	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	14117601m	196.04	ug/m3	
31) non C9-C12	15.71	TIC	5595340	59.00	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	374051	4.18	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	728497	8.32	ug/m3	100
34) non C9-C12 (4)	16.54	TIC	204368	2.52	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	4991913	78.05	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11894169m	141.47	ug/m3	
37) C9-C10 Aromatic	17.85	120	57480m	5.84	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	3191m	0.32	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	60671m	6.16	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121117.D 040911V1.M Wed Apr 13 19:17:20 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121117.D Vial: 16
Acq On : 12 Apr 2011 9:37 pm Operator: Michael Truchan
Sample : 1103609-019A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:18 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121118.D Vial: 17
Acq On : 12 Apr 2011 10:18 pm Operator: Michael Truchan
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:19 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

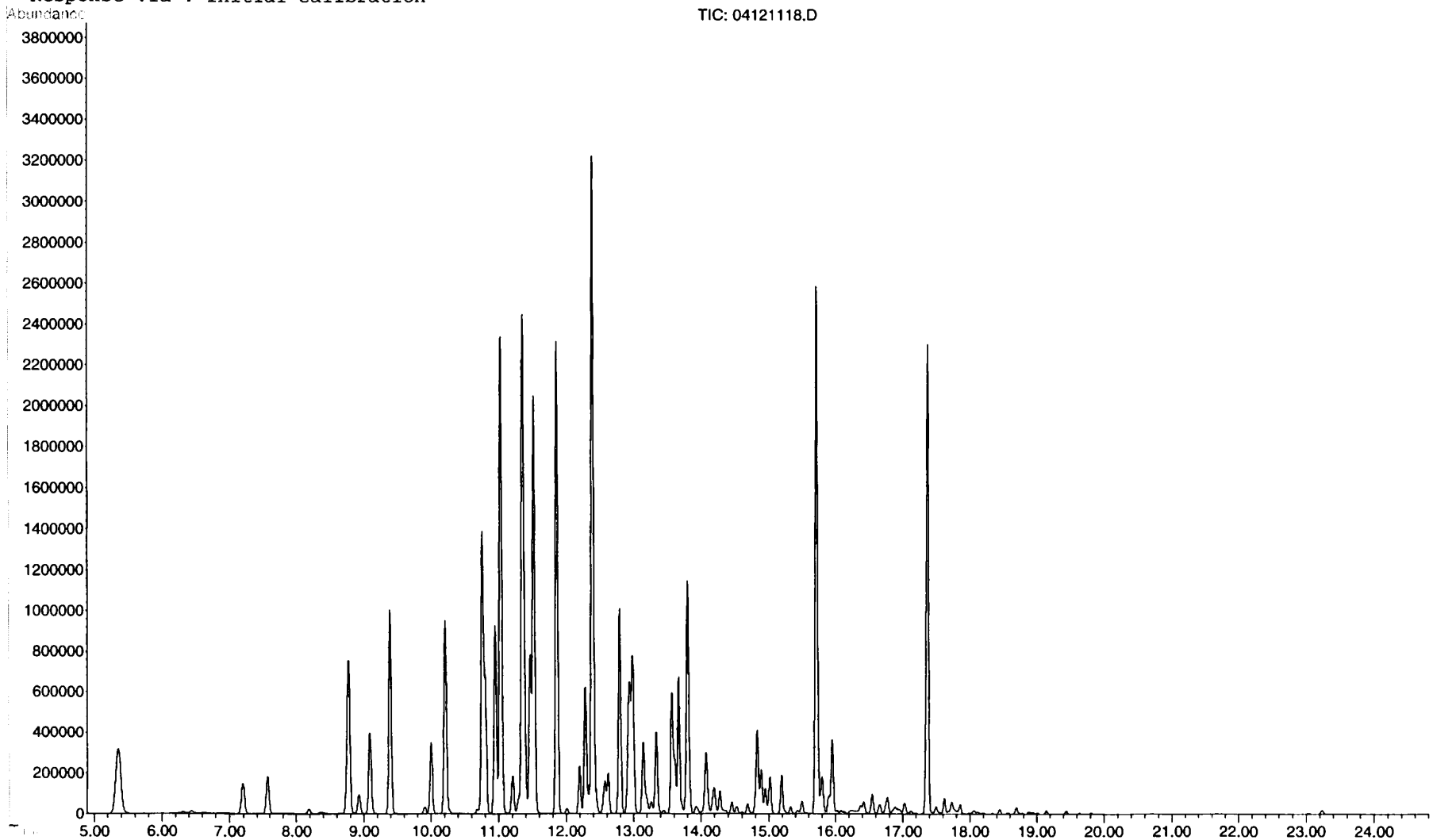
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1757614	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1033893	89.66	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.18%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.38	TIC	77904872m	683.04	ug/m3	
23) non C5-C8	6.44	TIC	40848	0.45	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	1119872	15.79	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4952022	83.45	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	1944647	20.14	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5293165	51.48	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2978414	29.40	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	16328968m	192.00	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	15468296m	214.79	ug/m3	
31) non C9-C12	15.71	TIC	5970678	62.95	ug/m3	100
32) non C9-C12 {2}	15.79	TIC	474896	5.31	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	874574	9.98	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	244035	3.01	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5149191	80.51	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12713374m	151.22	ug/m3	
37) C9-C10 Aromatic	17.86	120	62084m	6.30	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	3220m	0.33	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	65304m	6.63	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121118.D 040911V1.M Wed Apr 13 19:17:27 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121118.D Vial: 17
Acq On : 12 Apr 2011 10:18 pm Operator: Michael Truchan
Sample : 1103609-020A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:19 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121119.D Vial: 18
Acq On : 12 Apr 2011 10:59 pm Operator: Michael Truchan
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:19 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

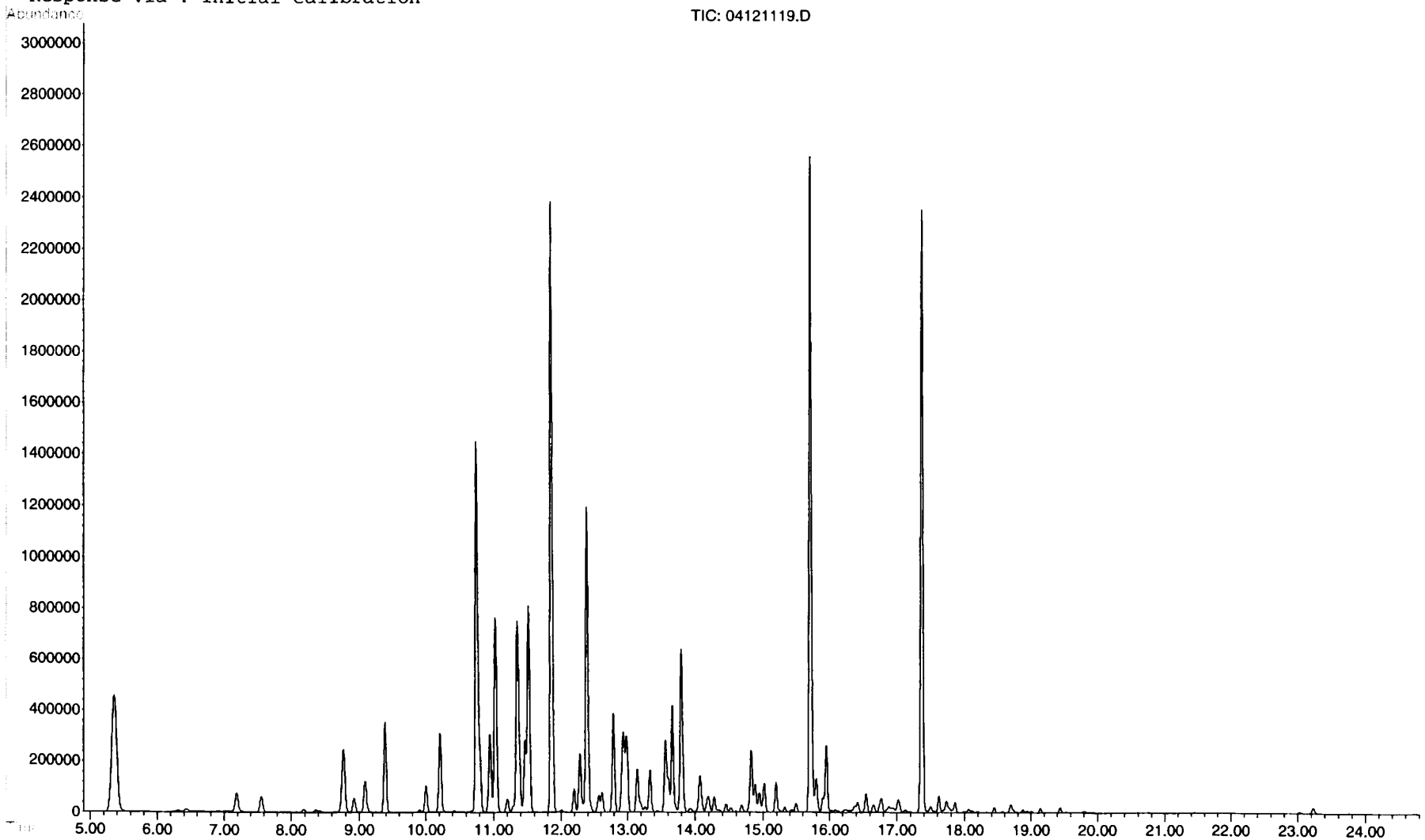
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1776258	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1070910	91.89	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.67%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	35932414m	315.04	ug/m3	
23) non C5-C8	6.43	TIC	42593	0.47	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	363578	5.13	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4093951	68.99	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	655192	6.79	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5501350	53.50	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1630004	16.09	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	12286668m	144.47	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	14285402m	198.37	ug/m3	
31) non C9-C12	15.71	TIC	5800635	61.16	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	330020	3.69	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	634625	7.25	ug/m3	100
34) non C9-C12 (4)	16.54	TIC	183314	2.26	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5289893	82.71	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	12238487m	145.57	ug/m3	
37) C9-C10 Aromatic	17.86	120	55163m	5.60	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	3726m	0.38	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	58889m	5.98	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121119.D Vial: 18
Acq On : 12 Apr 2011 10:59 pm Operator: Michael Truchan
Sample : 1103609-021A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 8000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:19 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121120.D Vial: 19
Acq On : 12 Apr 2011 11:39 pm Operator: Michael Truchan
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 16000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:20 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

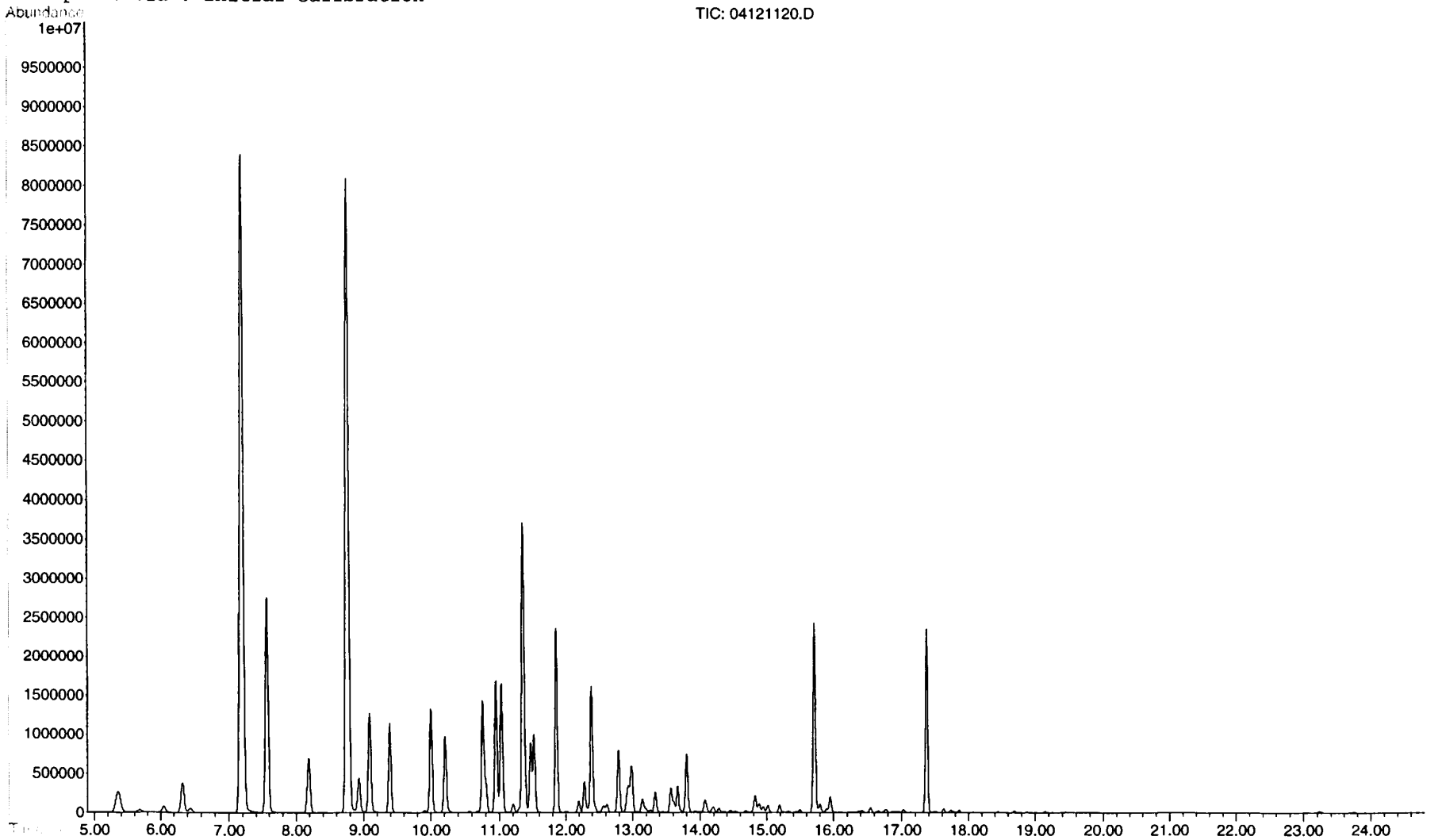
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1751041	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1045367	90.99	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.66%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	7.18	TIC	134561550m	1179.78	ug/m3	
23) non C5-C8	6.44	TIC	231665	2.55	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	3542294	49.95	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	4409057	74.30	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	2216934	22.96	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5398173	52.50	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	1932608	19.08	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	17730731m	208.49	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	13179524m	183.01	ug/m3	
31) non C9-C12	15.71	TIC	5624367	59.30	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	259972	2.91	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	482539	5.51	ug/m3	100
34) non C9-C12 {4}	16.54	TIC	154715	1.91	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5184265	81.06	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11705858m	139.23	ug/m3	
37) C9-C10 Aromatic	17.86	120	48782m	4.95	ug/m3	
38) C9-C10 Aromatic {2}	18.87	134	3089m	0.31	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	51871m	5.27	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121120.D 040911V1.M Wed Apr 13 19:17:42 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121120.D Vial: 19
Acq On : 12 Apr 2011 11:39 pm Operator: Michael Truchan
Sample : 1103609-022A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 16000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:20 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121121.D Vial: 20
Acq On : 13 Apr 2011 12:22 am Operator: Michael Truchan
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:20 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

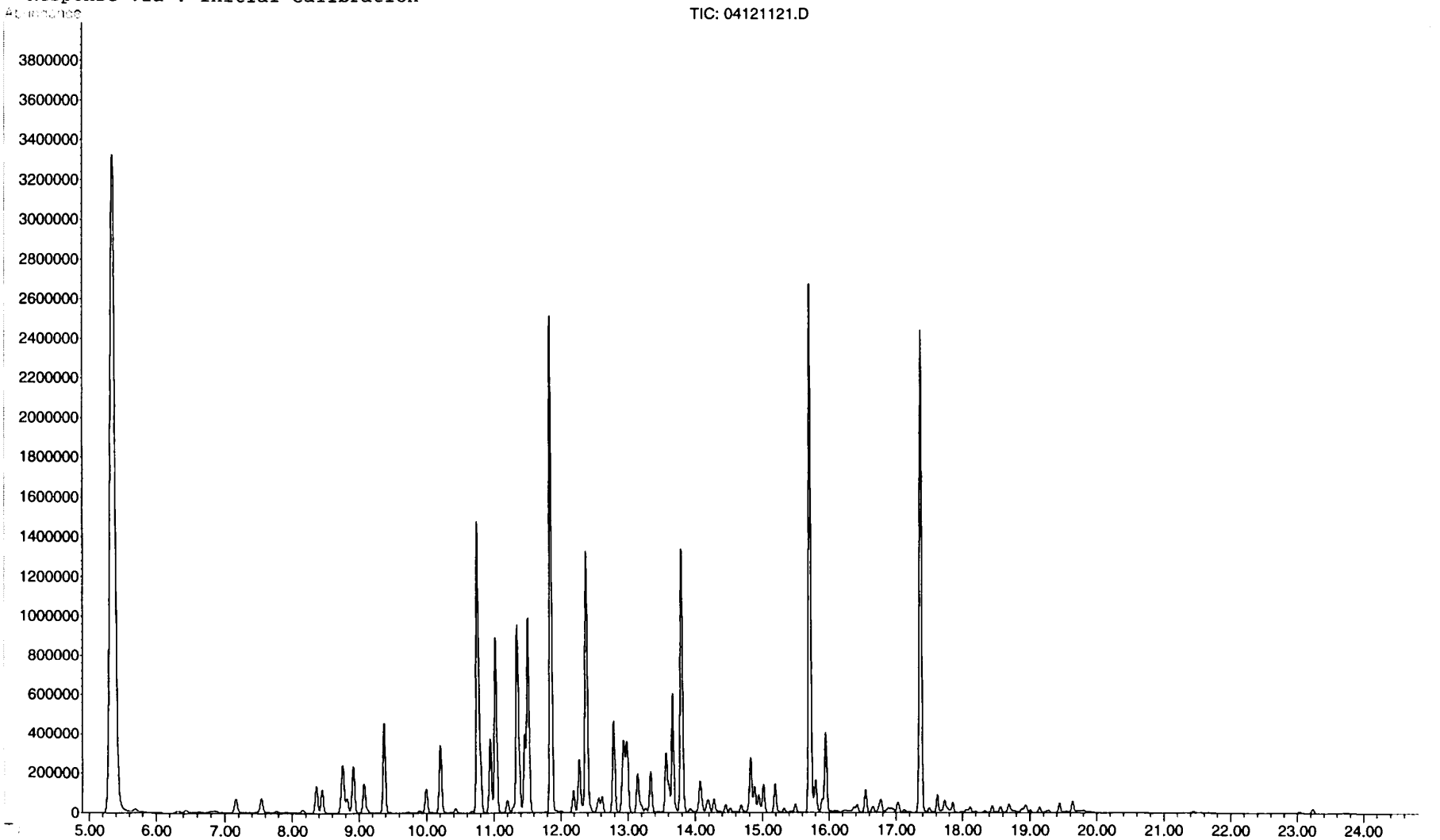
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1830203	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1113508	92.73	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 103.61%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.86	TIC	44518812m	390.32	ug/m3	
23) non C5-C8	6.44	TIC	50585	0.56	ug/m3	100
24) non C5-C8 (2)	9.07	TIC	444262	6.27	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4251024	71.64	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	906692	9.39	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5727046	55.70	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	3246772	32.05	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14626381m	171.98	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	16635077m	231.00	ug/m3	
31) non C9-C12	15.71	TIC	6167027	65.02	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	422529	4.73	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	976956	11.15	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	284956	3.51	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5521891	86.34	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	13373359m	159.07	ug/m3	
37) C9-C10 Aromatic	17.86	120	79167m	8.04	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	4608m	0.47	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	83775m	8.51	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121121.D Vial: 20
Acq On : 13 Apr 2011 12:22 am Operator: Michael Truchan
Sample : 1103609-023A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1600.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:20 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121122.D Vial: 21
Acq On : 13 Apr 2011 1:06 am Operator: Michael Truchan
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 14:35 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

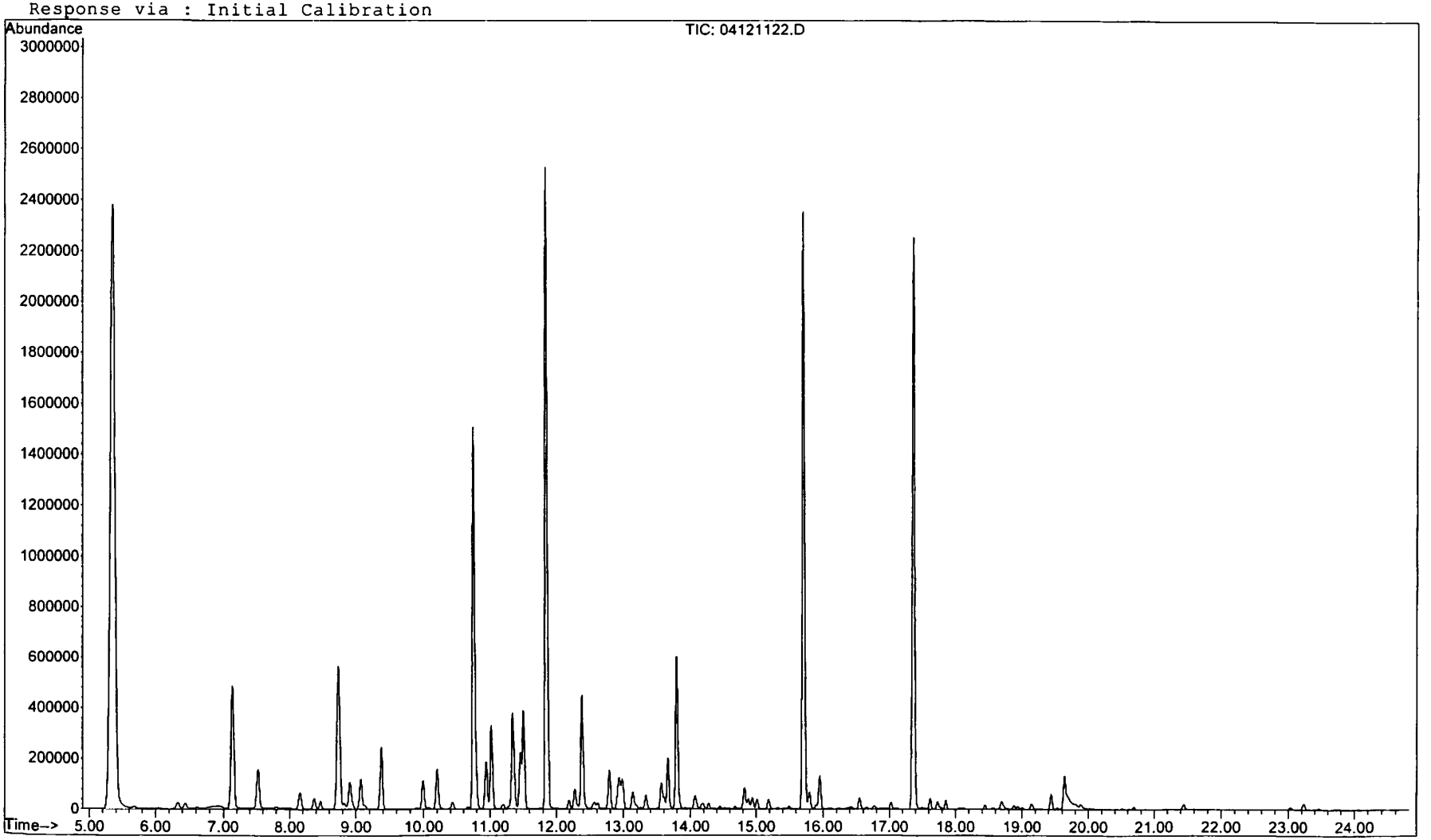
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1753563	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1045638	90.88	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.54%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	26892355m	235.78	ug/m3	
23) non C5-C8	6.44	TIC	69788	0.77	ug/m3	100
24) non C5-C8 (2)	9.07	TIC	356130	5.02	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3883533	65.45	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	561655	5.82	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5764650	56.06	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1453464	14.35	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	12089220m	142.15	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	13116769m	182.14	ug/m3	
31) non C9-C12	15.71	TIC	5427727	57.23	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	164743	1.84	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	302584	3.45	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	106209	1.31	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	5135286	80.29	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	11136549m	132.46	ug/m3	
37) C9-C10 Aromatic	17.85	120	49475m	5.02	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	4251m	0.43	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	53726m	5.46	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121122.D 040911V1.M Fri Apr 15 14:38:09 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121122.D Vial: 21
Acq On : 13 Apr 2011 1:06 am Operator: Michael Truchan
Sample : 1103609-024A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 14:35 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121123.D Vial: 22
Acq On : 13 Apr 2011 1:47 am Operator: Michael Truchan
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:21 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

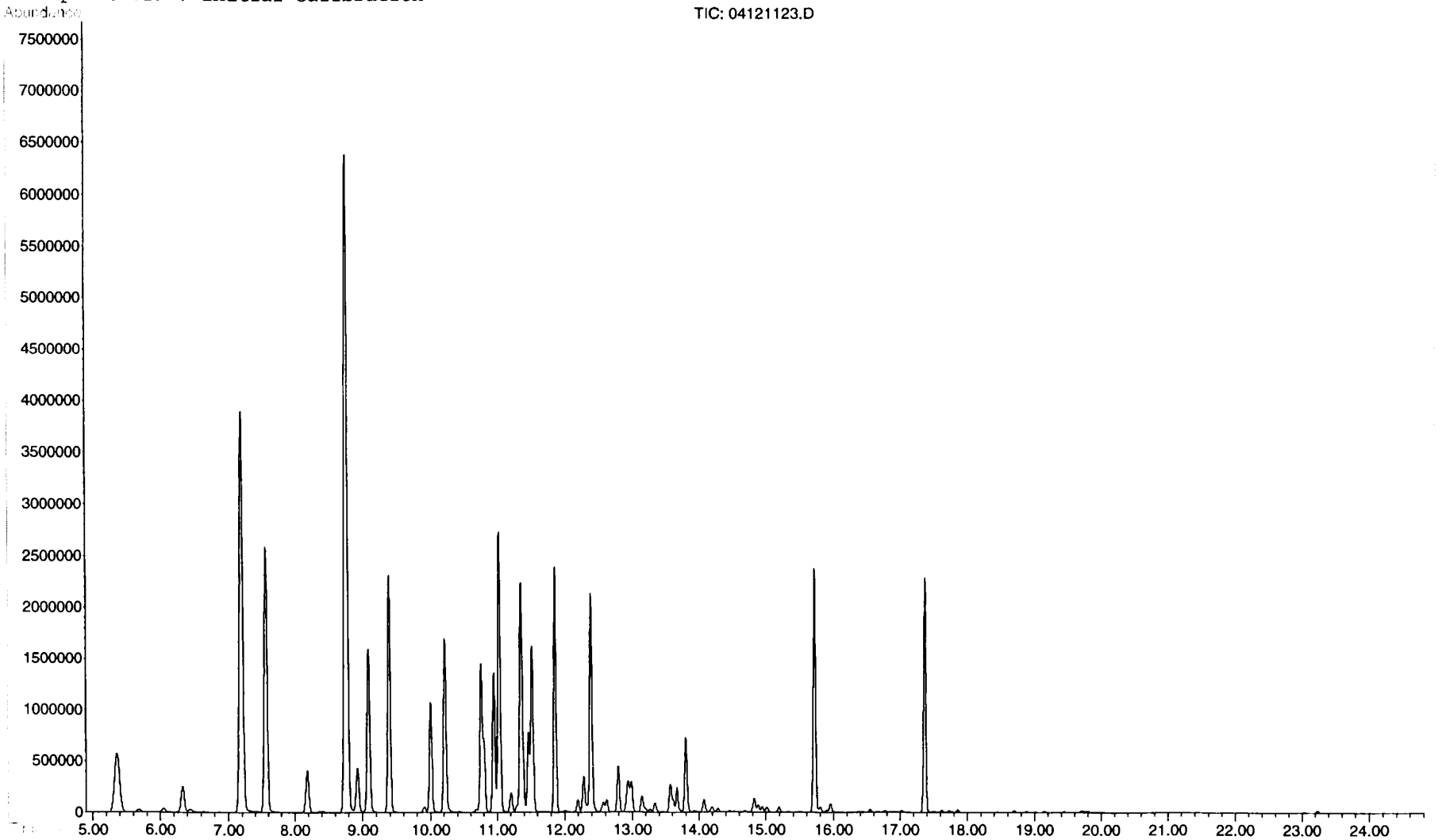
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1762885	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1031590	89.19	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.65%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.76	TIC	114433029m	1003.30	ug/m3	
23) non C5-C8	6.44	TIC	118089	1.30	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	4468430	63.02	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	5158484	86.93	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	1932438	20.01	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5506103	53.55	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1812358	17.89	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	18995902m	223.36	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11652342m	161.81	ug/m3	
31) non C9-C12	15.71	TIC	5419750	57.14	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	117366	1.31	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	197255	2.25	ug/m3	100
34) non C9-C12 (4)	16.54	TIC	65719	0.81	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5097313	79.70	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	10897403m	129.62	ug/m3	
37) C9-C10 Aromatic	17.85	120	35044m	3.56	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	3130m	0.32	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	38174m	3.88	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121123.D 040911V1.M Wed Apr 13 19:17:58 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121123.D Vial: 22
Acq On : 13 Apr 2011 1:47 am Operator: Michael Truchan
Sample : 1103609-025A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 80000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:21 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121124.D Vial: 23
Acq On : 13 Apr 2011 2:28 am Operator: Michael Truchan
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:22 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

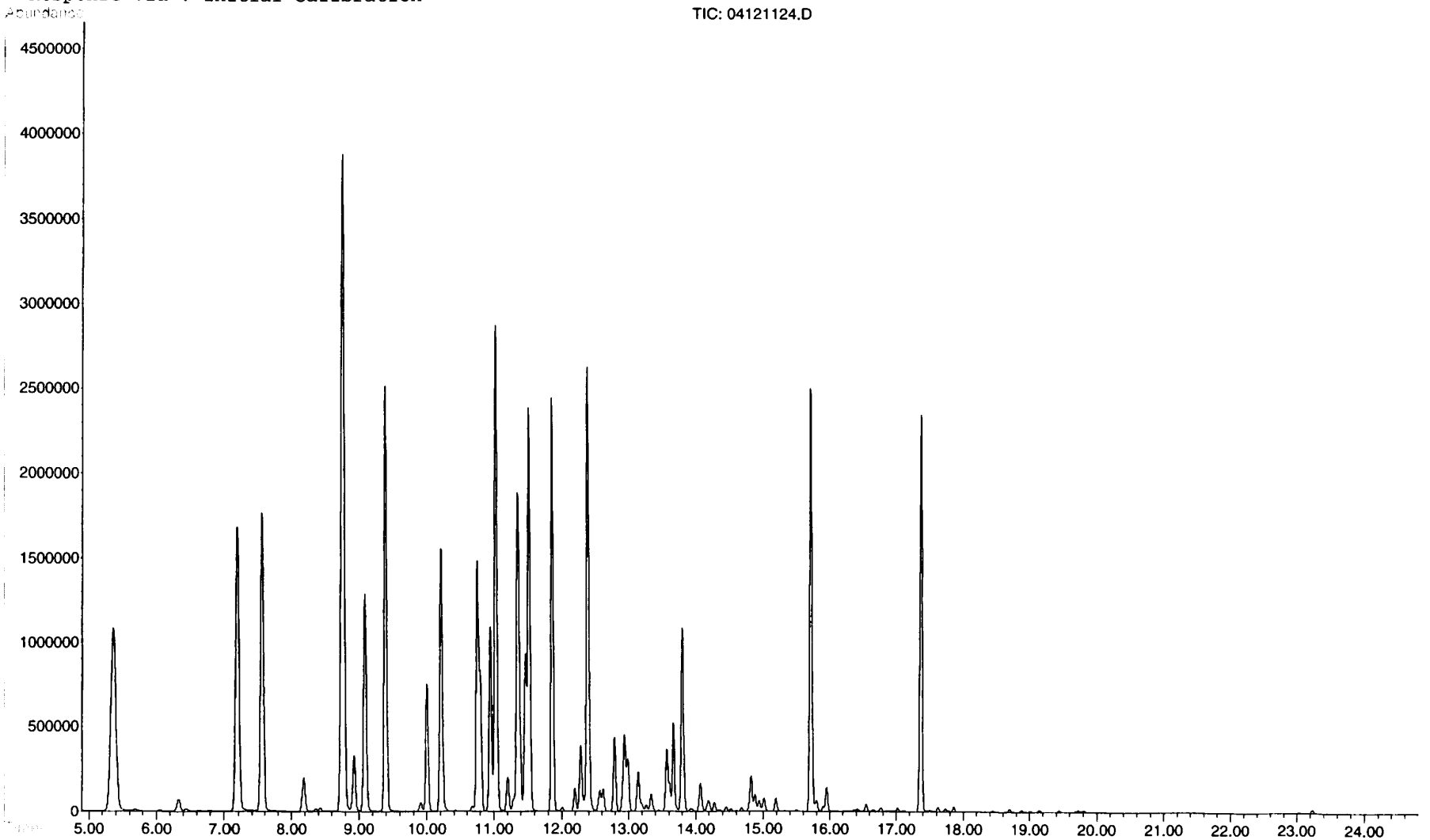
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1805329	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1066339	90.02	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.58%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.76	TIC	98850869m	866.68	ug/m3	
23) non C5-C8	6.44	TIC	46806	0.52	ug/m3	100
24) non C5-C8 (2)	9.08	TIC	3574514	50.41	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	5507068	92.81	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	2267071	23.48	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5579065	54.26	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2726665	26.91	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19701189m	231.66	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	12405680m	172.27	ug/m3	
31) non C9-C12	15.71	TIC	5704834	60.15	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	158645	1.77	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	338559	3.87	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	103244	1.27	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5224205	81.68	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11529487m	137.13	ug/m3	
37) C9-C10 Aromatic	17.85	120	36890m	3.75	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	2943m	0.30	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	39833m	4.04	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121124.D 040911V1.M Wed Apr 13 19:18:03 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121124.D Vial: 23
Acq On : 13 Apr 2011 2:28 am Operator: Michael Truchan
Sample : 1103609-026A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:22 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121125.D Vial: 24
Acq On : 13 Apr 2011 3:09 am Operator: Michael Truchan
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:22 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

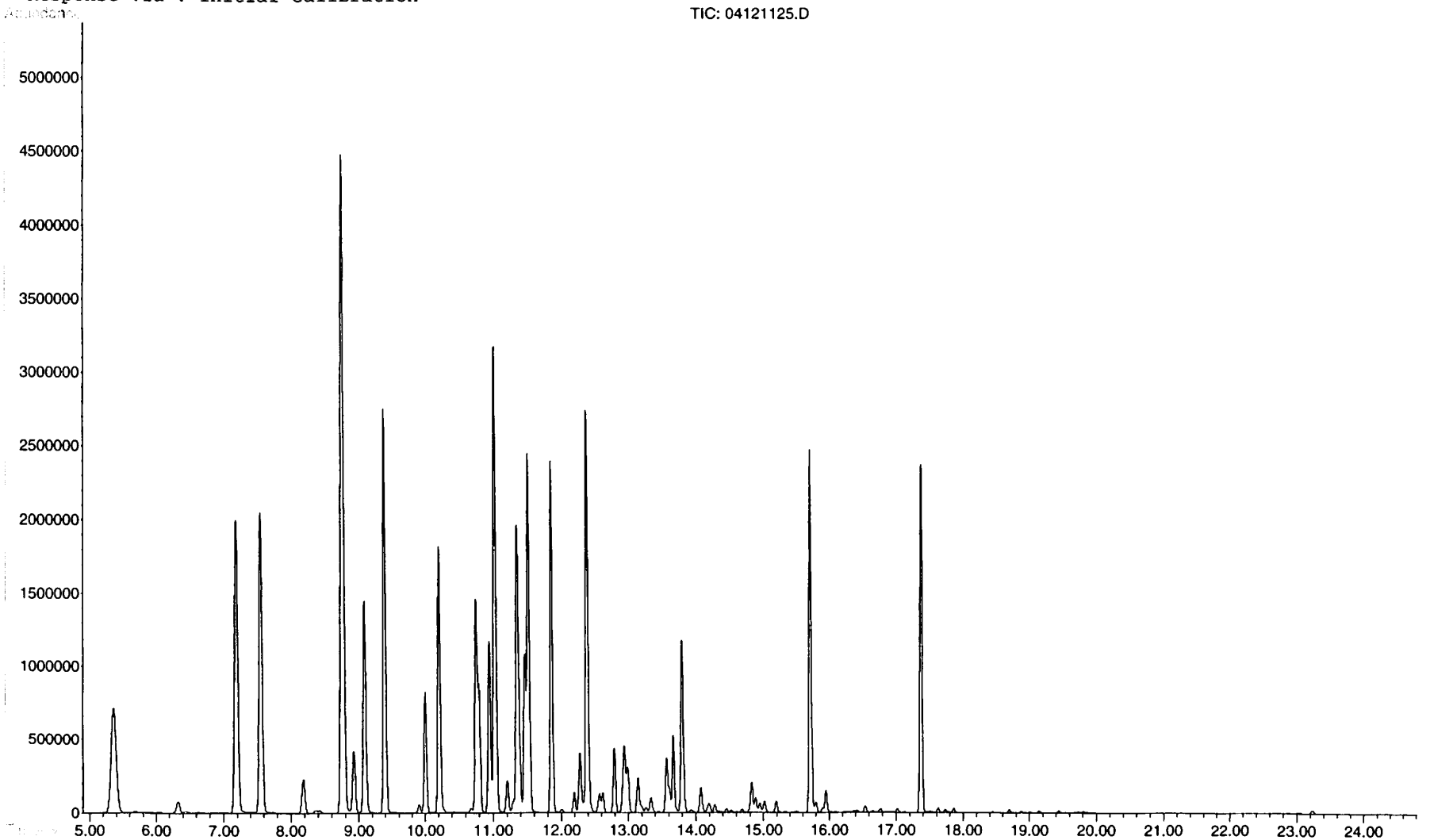
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1787576	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1068095	91.07	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.75%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	8.76	TIC	107288716m	940.66	ug/m3	
23) non C5-C8	6.44	TIC	54332	0.60	ug/m3	100
24) non C5-C8 {2}	9.08	TIC	4008066	56.52	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3984239	67.14	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	2661015	27.56	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5500756	53.50	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	2921116	28.83	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	19129524m	224.94	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	12470928m	173.17	ug/m3	
31) non C9-C12	15.71	TIC	5662631	59.71	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	165006	1.85	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	367193	4.19	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	108863	1.34	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5258916	82.23	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	11562609m	137.53	ug/m3	
37) C9-C10 Aromatic	17.86	120	38232m	3.88	ug/m3	
38) C9-C10 Aromatic {2}	18.89	134	2898m	0.29	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	41130m	4.18	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121125.D 040911V1.M Wed Apr 13 19:18:07 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121125.D Vial: 24
Acq On : 13 Apr 2011 3:09 am Operator: Michael Truchan
Sample : 1103609-027A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 160000.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:22 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041211\04121129.D Vial: 3
Acq On : 13 Apr 2011 9:04 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:22 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

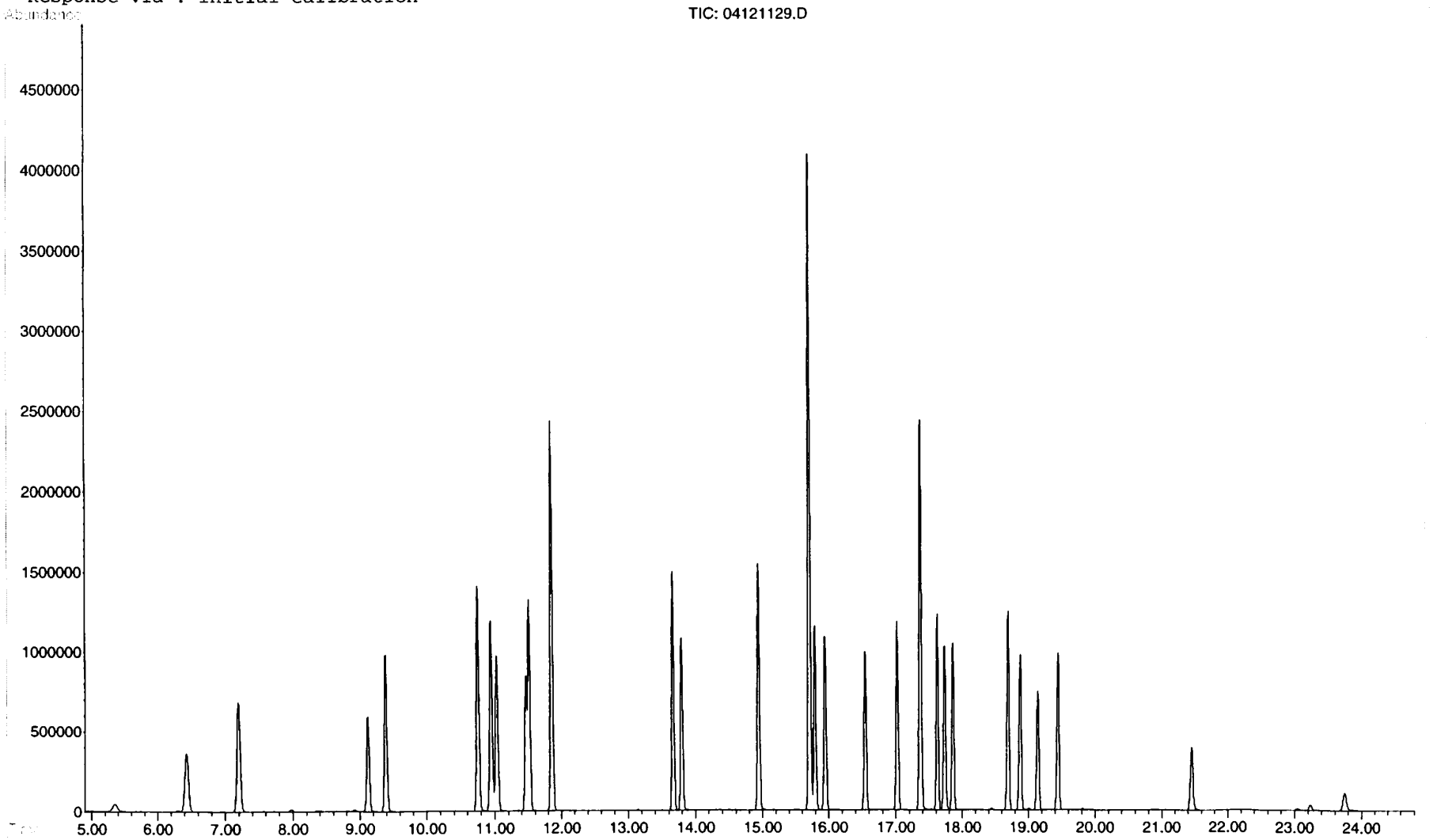
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1876192	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1095507	88.99	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.43%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.19	TIC	2284699	18.82	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2446517	22.47	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	3041222	25.47	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2523729	21.85	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	2941774	25.43	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	3170311	29.78	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.19	TIC	16408252m	143.86	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3509931	33.19	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8815811	92.95	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2499197	34.72	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2748696	36.02	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	2201508	39.91	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.44	TIC	1115227	37.71	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.44	TIC	20890370m	290.08	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	300073	31.74	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	304404	31.84	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	408124	32.64	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	84185	34.77	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	286830	32.40	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	231444	35.11	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1615060m	164.00	ug/m3	

(#) = qualifier out of range (m) = manual integration
04121129.D 040911V1.M Wed Apr 13 19:18:18 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041211\04121129.D Vial: 3
Acq On : 13 Apr 2011 9:04 am Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 13 14:22 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Injection Log

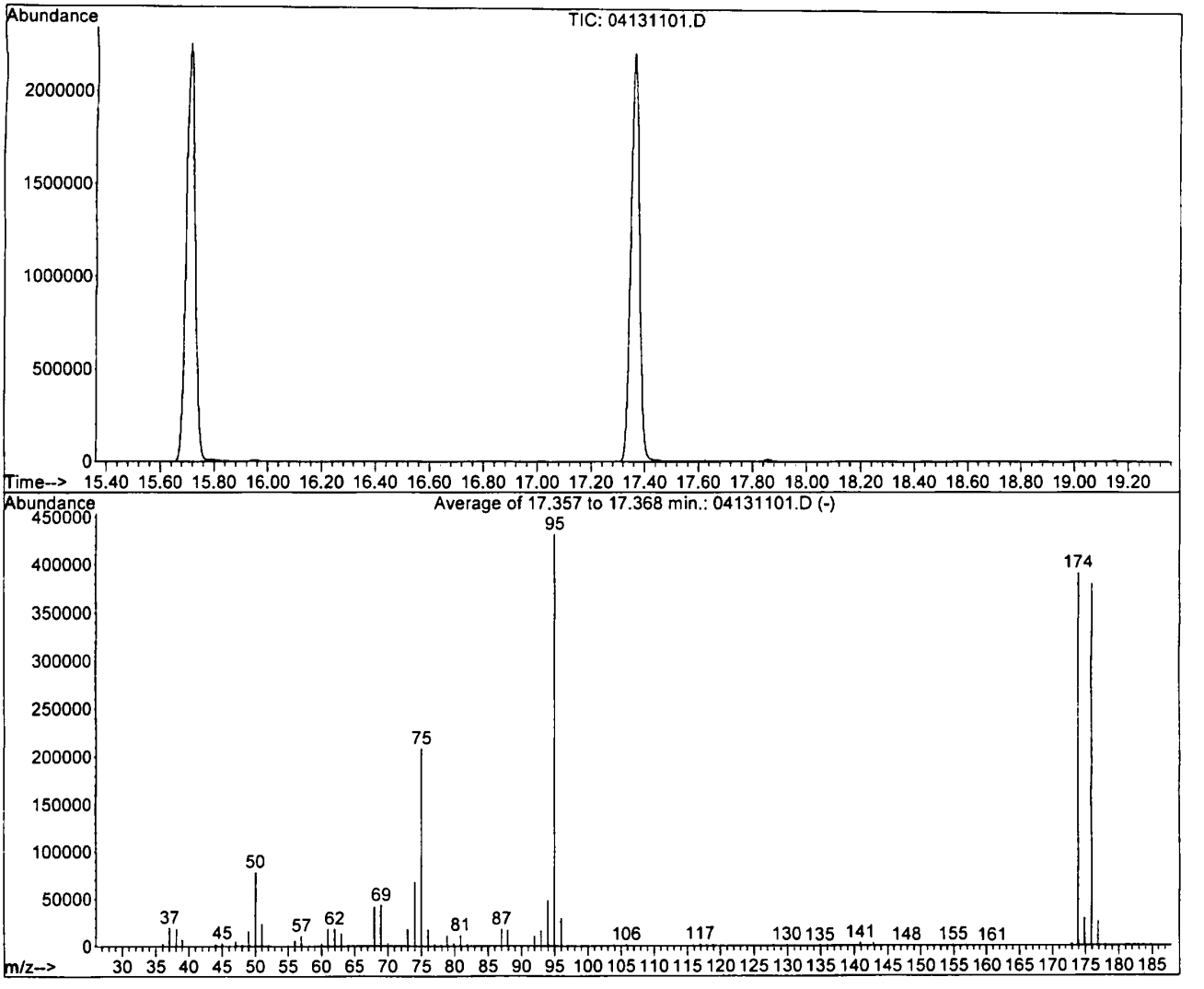
Directory: C:\HPCHEM\1\DATA\041311

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04131101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	13 Apr 2011 15:47
2	2	04131102.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	13 Apr 2011 16:29
3	3	04131103.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	13 Apr 2011 17:11
4	4	04131104.d	1.	MBLK 4/13/11	MBLK MA_APH	13 Apr 2011 17:55
5	5	04131105.d	400.	1103609-004A	SAMP MA_APH	13 Apr 2011 18:37
6	6	04131106.d	400.	1103609-004ADUP	DUP MA_APH	13 Apr 2011 19:18
7	7	04131107.d	40.	1103389-0036B	SAMP MA_APH	13 Apr 2011 19:59
8	8	04131108.d	40.	1103389-0037 – DATA NOT USED mTech 4/15/11	SAMP MA_APH	13 Apr 2011 20:41
9	9	04131109.d	40.	1103609-017A	SAMP MA_APH	13 Apr 2011 21:23
10	3	04131110.d	1.	BLANK	CCB MA_APH	14 Apr 2011 10:21
11	7	04131111.d	1000.	1103389-036B	SAMP MA_APH	14 Apr 2011 11:11
12	8	04131112.d	1000.	1103389-037B – DATA NOT USED mTech 4/15/11	SAMP MA_APH	14 Apr 2011 11:53
13	9	04131113.d	1000.	1103609-017A	SAMP MA_APH	14 Apr 2011 12:35
14	8	04131114.d	4000.	1103389-037B	SAMP MA_APH	14 Apr 2011 14:00
15	3	04131115.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	14 Apr 2011 15:46

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\041311\04131101.D
Acq On : 13 Apr 2011 3:47 pm
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00



AutoFind: Scans 2384, 2385, 2386; Background Corrected with Scan 2372

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	78627	PASS
75	95	30	60	48.3	208704	PASS
95	95	100	100	100.0	432384	PASS
96	95	5	9	6.8	29507	PASS
173	174	0.00	2	0.7	2672	PASS
174	95	50	120	90.6	391573	PASS
175	174	4	9	7.5	29256	PASS
176	174	93	101	97.2	380480	PASS
177	176	5	9	6.7	25677	PASS

04131101.D 040911V1.M Fri Apr 15 12:55:32 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131102.D Vial: 2
Acq On : 13 Apr 2011 4:29 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:55 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

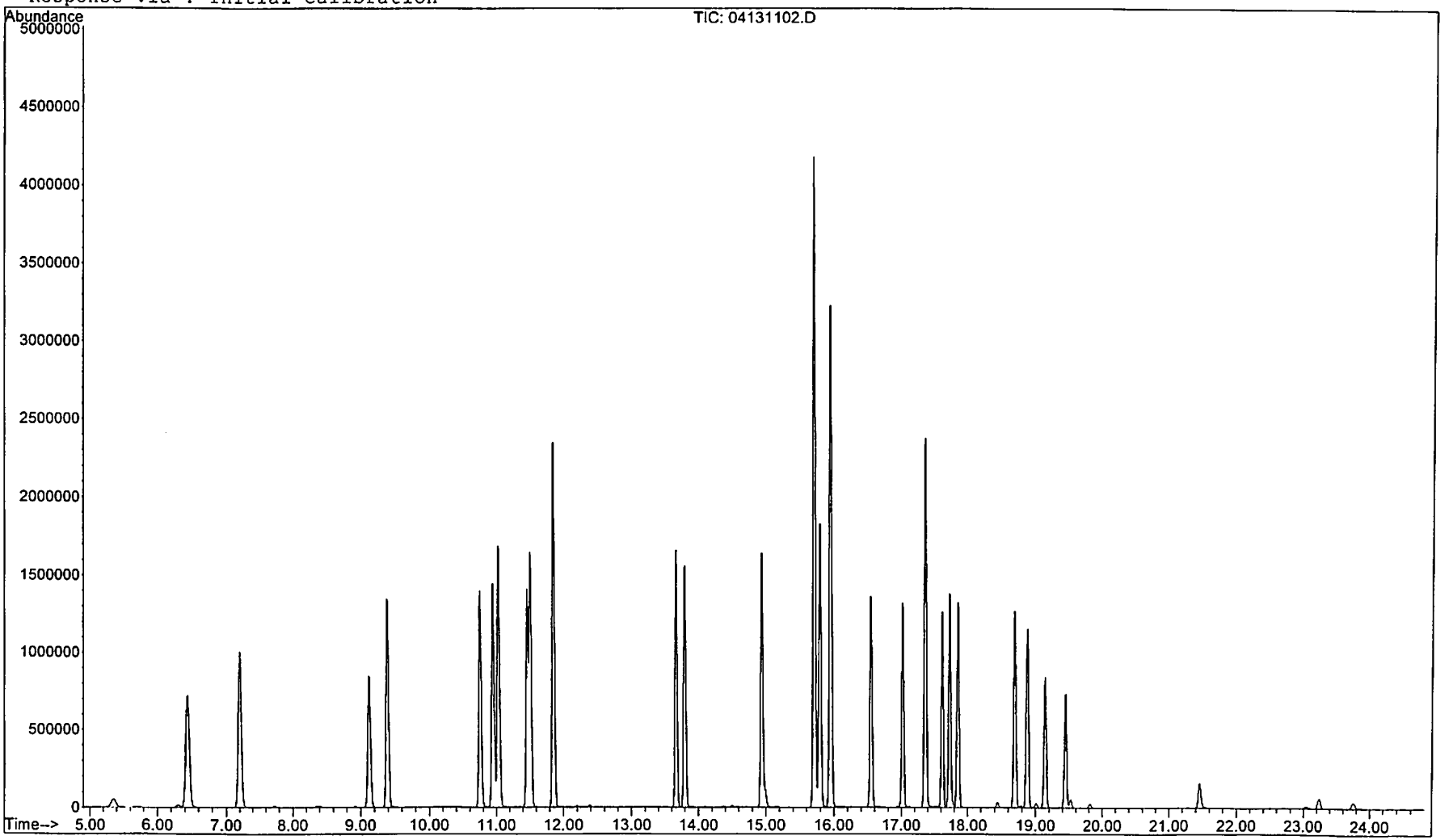
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1851998	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1058280	87.09	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 97.31%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	3341262	27.53	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	3341023	30.68	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	3666103	30.71	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	4359576	37.75	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	3492287	30.19	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	3483509	32.72	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	21683760m	190.11	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3973788	37.57	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	8923165	94.08	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	2547096	35.39	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.69	TIC	2811381	36.84	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	1619783	29.36	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.46	TIC	473526	16.01	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.46	TIC	20348739m	282.56	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	338789	35.84	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	406258	42.49	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	504588	40.36	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	98982	40.88	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	317847	35.91	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	275381	41.78	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1941845m	197.18	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131102.D Vial: 2
Acq On : 13 Apr 2011 4:29 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:55 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131103.D Vial: 3
Acq On : 13 Apr 2011 5:11 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

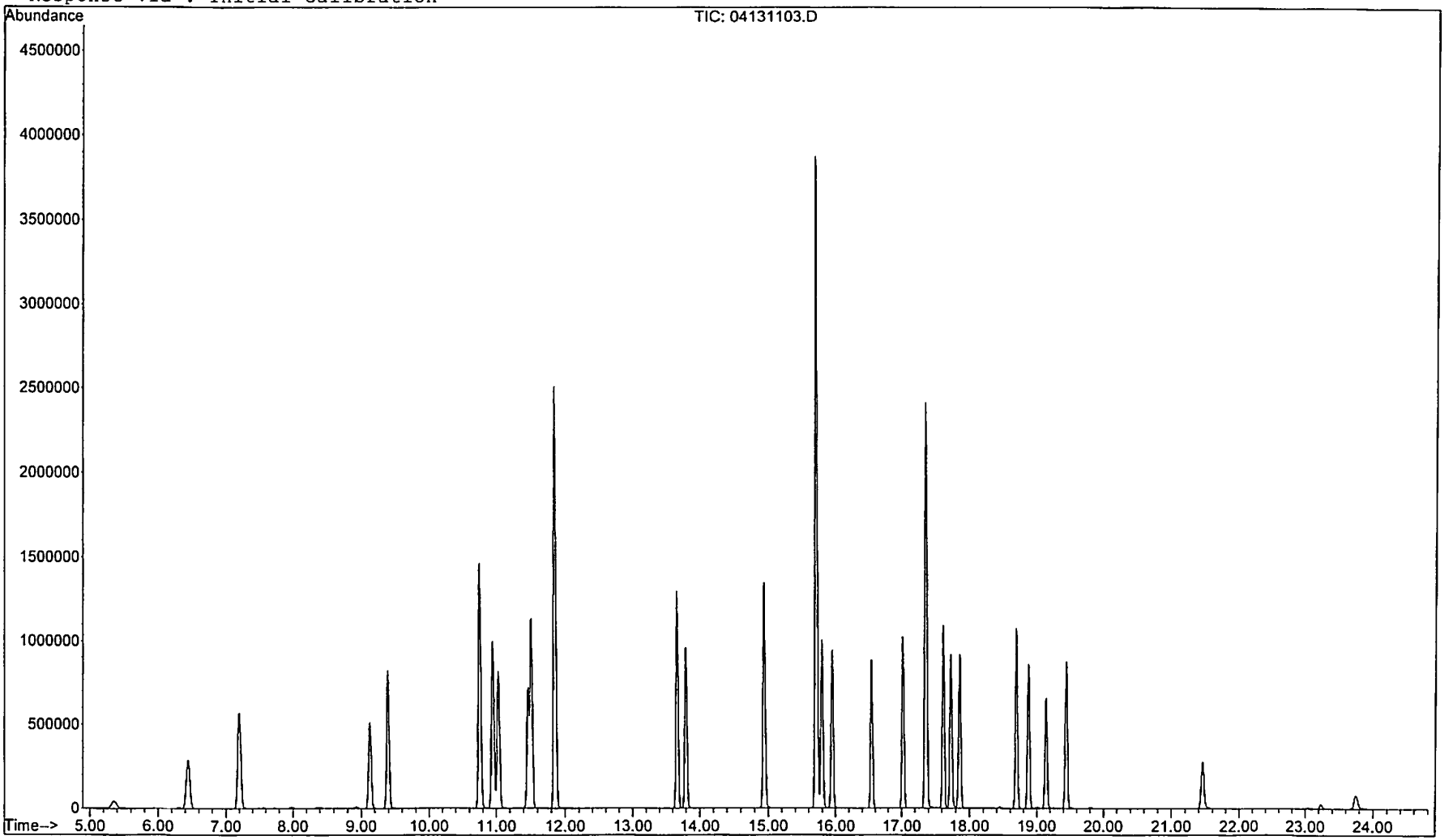
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1902586	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1085112	86.93	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 97.13%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	1908421	15.72	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	2052283	18.85	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	2592926	21.72	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	2124348	18.39	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.52	TIC	2464133	21.30	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	2720194	25.55	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	13862305m	121.54	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3026100	28.61	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	8394333	88.51	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	2194151	30.48	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.69	TIC	2399548	31.44	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	1949417	35.34	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	823068	27.83	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	18786617m	260.87	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	267733	28.32	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	269146	28.15	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	362587	29.00	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	74250	30.67	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	254631	28.77	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	206001	31.25	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1434348m	145.65	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131103.D 040911V1.M Fri Apr 15 12:56:23 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131103.D Vial: 3
Acq On : 13 Apr 2011 5:11 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131104.D Vial: 4
Acq On : 13 Apr 2011 5:55 pm Operator: Michael Truchan
Sample : MBLK 4/13/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

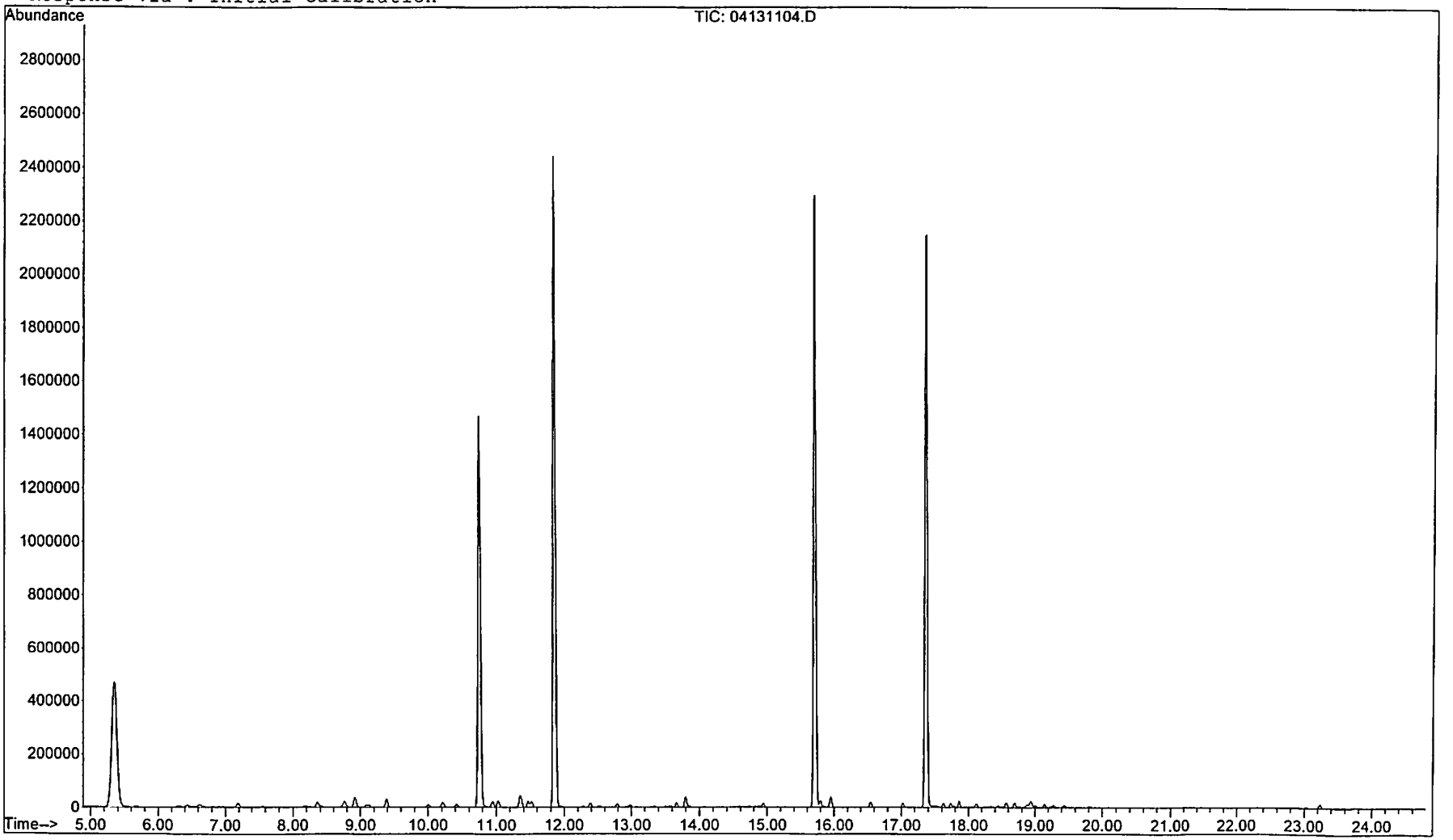
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1762798	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	980741	84.80	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 94.75%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	10500077m	92.06	ug/m3	
23) non C5-C8	6.44	TIC	28936	0.32	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	16653	0.23	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3646581	61.45	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	55769	0.58	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5557108	54.04	ug/m3	100
28) non C5-C8 (6)	13.79	TIC	101099	1.00	ug/m3	100
29) non C5-C8 - TOTAL	13.79	TIC	9406146m	110.60	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	10784266m	149.75	ug/m3	
31) non C9-C12	15.71	TIC	5224508	55.09	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	61647	0.69	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	87122	0.99	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	42914	0.53	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	4836221	75.62	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	10252412m	121.94	ug/m3	
37) C9-C10 Aromatic	17.85	120	30010m	3.05	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	2475m	0.25	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	32485m	3.30	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131104.D 040911V1.M Fri Apr 15 12:56:59 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131104.D Vial: 1
Acq On : 13 Apr 2011 5:55 pm Operator: Michael Truchan
Sample : MBLK 4/13/11 Inst : GC/MS Ins
Misc : MBLK MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:56 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131105.D Vial: 5
Acq On : 13 Apr 2011 6:37 pm Operator: Michael Truchan
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:57 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

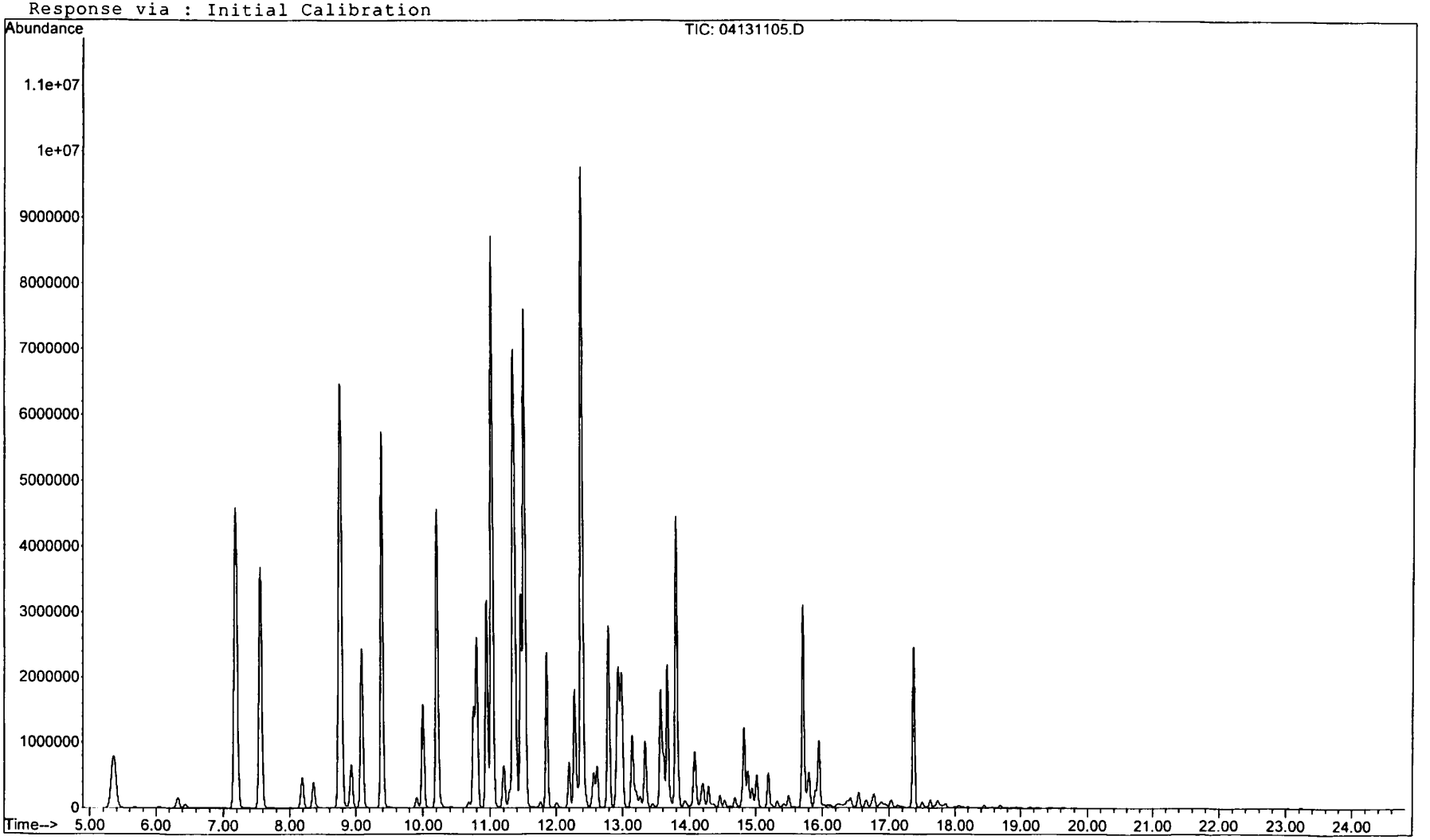
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1878673	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1109814	90.04	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery =	100.60%		
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	289021711m	2534.01	ug/m3	
23) non C5-C8	6.44	TIC	218487	2.41	ug/m3	100
24) non C5-C8 {2}	9.09	TIC	6677021	94.16	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3256193	54.87	ug/m3	100
26) non C5-C8 {4}	11.46	TIC	7560291	78.30	ug/m3	100
27) non C5-C8 {5}	11.85	TIC	5399410	52.51	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	11082780	109.40	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	34194182m	402.07	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	24545030m	340.83	ug/m3	
31) non C9-C12	15.71	TIC	7277874	76.74	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	1384557	15.49	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	2450559	27.98	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	581559	7.17	ug/m3	100
35) non C9-C12 {5}	17.36	TIC	5617088	87.83	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	17311637m	205.91	ug/m3	
37) C9-C10 Aromatic	17.73	120	98564m	10.01	ug/m3	
38) C9-C10 Aromatic {2}	18.88	134	4477m	0.45	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	103041m	10.46	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131105.D Vial: 5
Acq On : 13 Apr 2011 6:37 pm Operator: Michael Truchan
Sample : 1103609-004A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:57 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131106.D Vial: 6
Acq On : 13 Apr 2011 7:18 pm Operator: Michael Truchan
Sample : 1103609-004ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:58 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

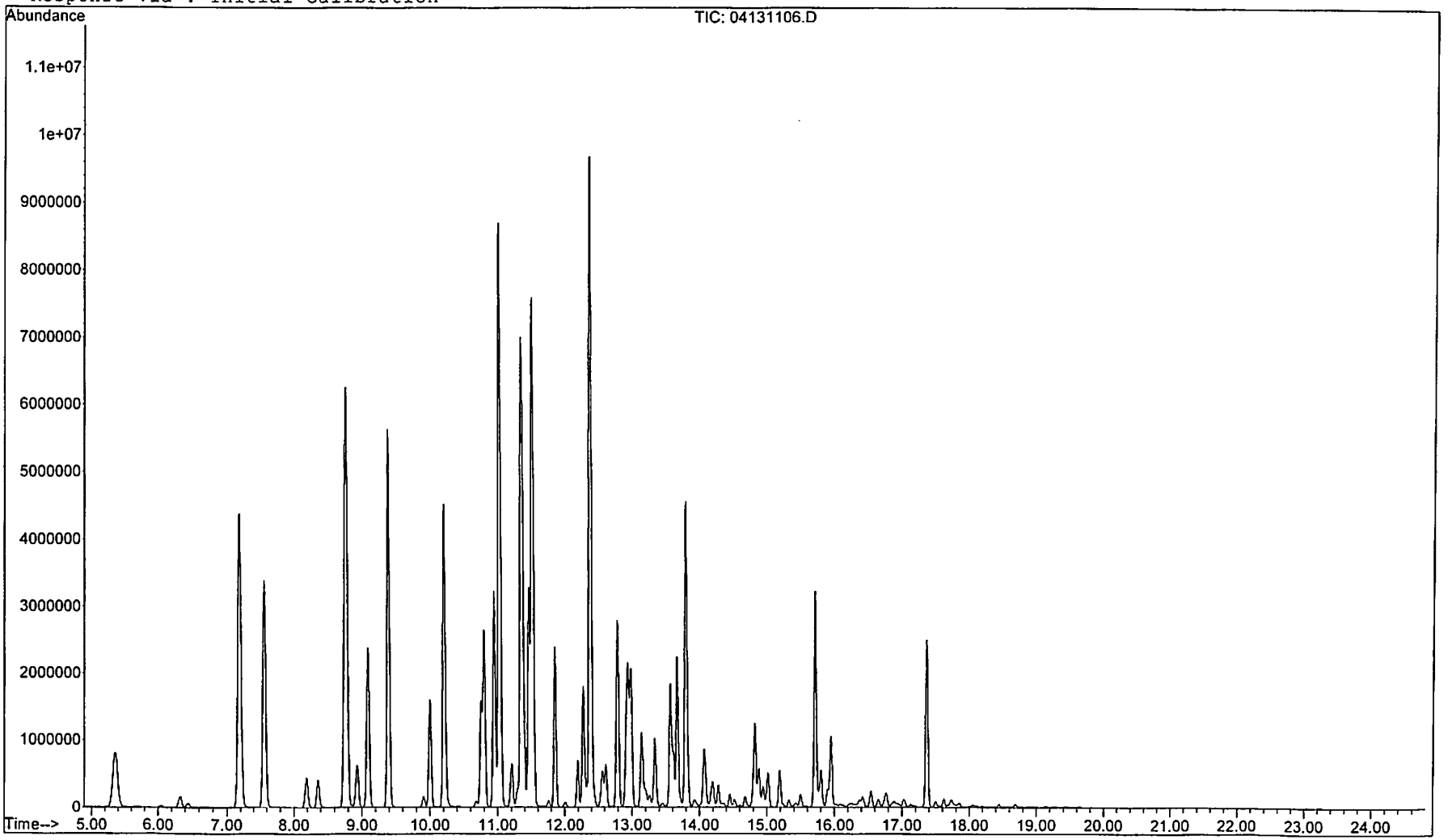
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1920644	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1138387	90.34	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 100.94%			
Target Compounds						Qvalue
22) C5-C8 Aliphatic	12.39	TIC	287202561m	2518.06	ug/m3	
23) non C5-C8	6.44	TIC	211392	2.33	ug/m3	100
24) non C5-C8 (2)	9.09	TIC	6504373	91.73	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3244260	54.67	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	7486112	77.53	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	5479786	53.29	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	11299780	111.54	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	34225703m	402.44	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	25166583m	349.46	ug/m3	
31) non C9-C12	15.71	TIC	7491803	78.99	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	1426729	15.96	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	2541944	29.02	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	601396	7.42	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5748702	89.88	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	17810574m	211.84	ug/m3	
37) C9-C10 Aromatic	17.73	120	100958m	10.25	ug/m3	
38) C9-C10 Aromatic (2)	18.87	134	4914m	0.50	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	105872m	10.75	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131106.D Vial: 6
Acq On : 13 Apr 2011 7:18 pm Operator: Michael Truchan
Sample : 1103609-004ADUP Inst : GC/MS Ins
Misc : DUP MA_APH Multiplr: 400.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:58 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131113.D Vial: 9
Acq On : 14 Apr 2011 12:35 pm Operator: Michael Truchan
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1000.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:59 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

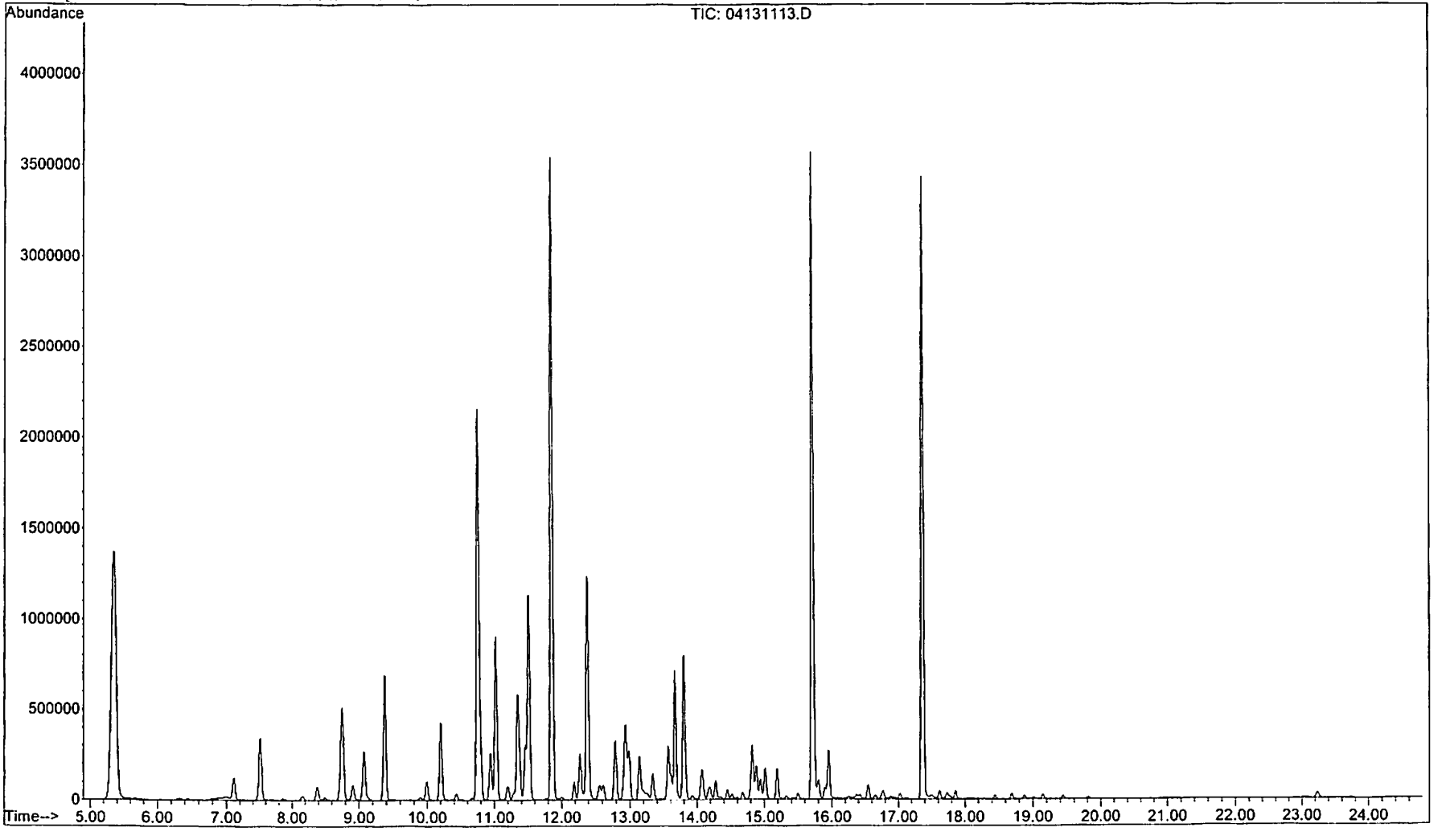
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2792036	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1703783	93.01	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery =	103.92%		
Target Compounds						Qvalue
22) C5-C8 Aliphatic	11.85	TIC	48615361m	426.24	ug/m3	
23) non C5-C8	6.44	TIC	23066	0.25	ug/m3	100
24) non C5-C8 (2)	9.07	TIC	769825	10.86	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	6162328	103.85	ug/m3	100
26) non C5-C8 (4)	11.46	TIC	619987	6.42	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	8642422	84.05	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	2015405	19.89	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	18233033m	214.39	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	19652476m	272.90	ug/m3	
31) non C9-C12	15.71	TIC	8621391	90.90	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	253379	2.83	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	661523	7.55	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	208449	2.57	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	8052323	125.90	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	17797065m	211.68	ug/m3	
37) C9-C10 Aromatic	17.86	120	60837m	6.18	ug/m3	
38) C9-C10 Aromatic (2)	18.88	134	5337m	0.54	ug/m3	
39) C9-C10 Aromatic - TOTAL	0.00	134	66174m	6.72	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131113.D 040911V1.M Fri Apr 15 12:59:27 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131113.D Vial: 9
Acq On : 14 Apr 2011 12:35 pm Operator: Michael Truchan
Sample : 1103609-017A Inst : GC/MS Ins
Misc : SAMP MA_APH Multiplr: 1000.00
MS Integration Params: CLME.P
Quant Time: Apr 15 12:59 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041311\04131115.D Vial: 3
Acq On : 14 Apr 2011 3:46 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 13:00 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

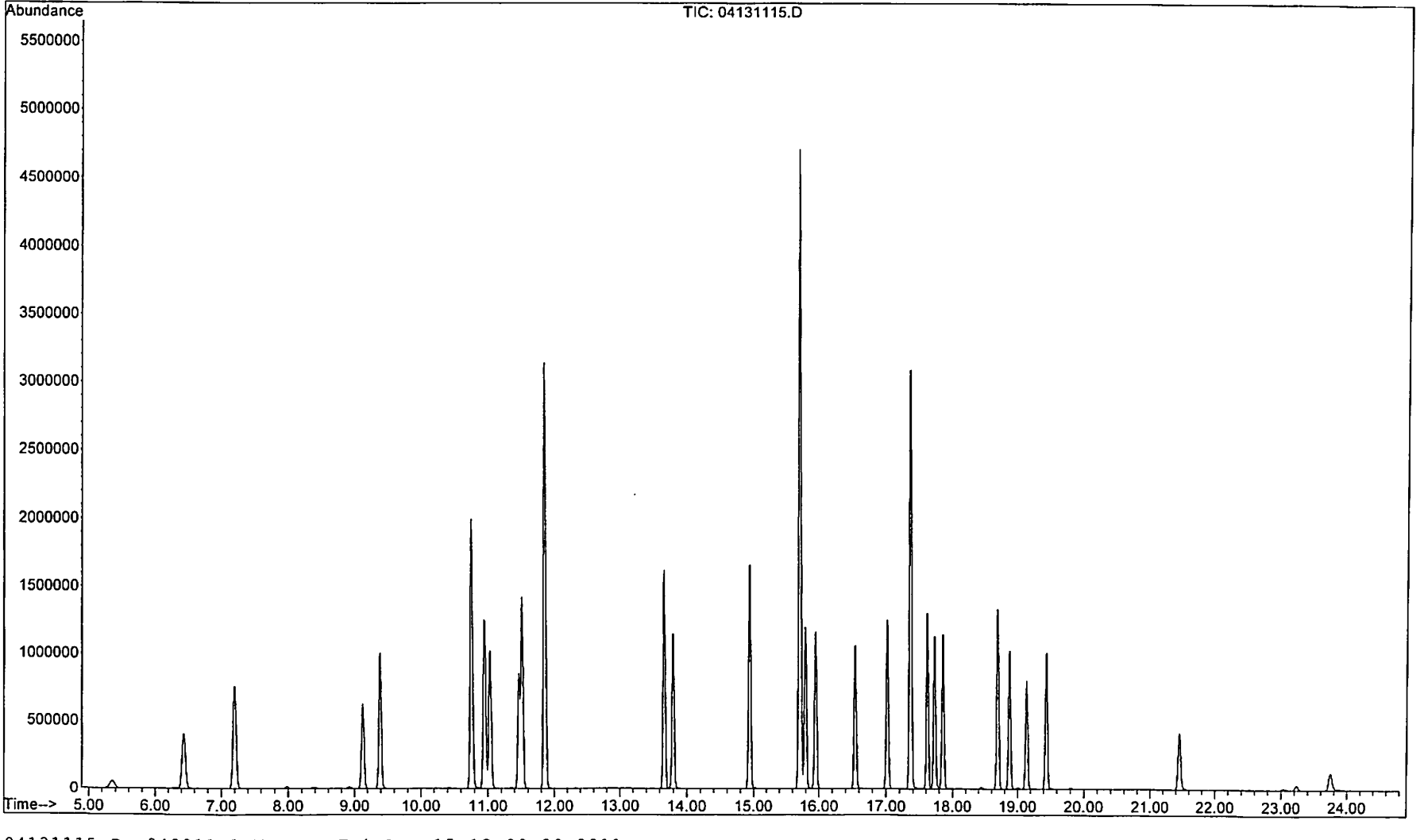
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2427829	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1460199	91.67	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 102.42%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	2558386	21.08	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	2529753	23.23	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	3225309	27.01	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	2674917	23.16	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	3280672	28.36	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	3450440	32.41	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	17719477m	155.36	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	3747282	35.43	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	10388945	109.54	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	2620917	36.41	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.69	TIC	2978180	39.03	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	2228259	40.39	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	1225830	41.45	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	23189413m	322.01	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	327640	34.66	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	331380	34.66	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	453725	36.29	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	89872	37.12	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	310171	35.04	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	251579	38.17	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1764367m	179.16	ug/m3	

(#) = qualifier out of range (m) = manual integration
04131115.D 040911V1.M Fri Apr 15 13:00:19 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041311\04131115.D Vial: 3
Acq On : 14 Apr 2011 3:46 pm Operator: Michael Truchan
Sample : APH RLVS 20cc voa020211a Inst : GC/MS Ins
Misc : RLVS MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 15 13:00 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Injection Log

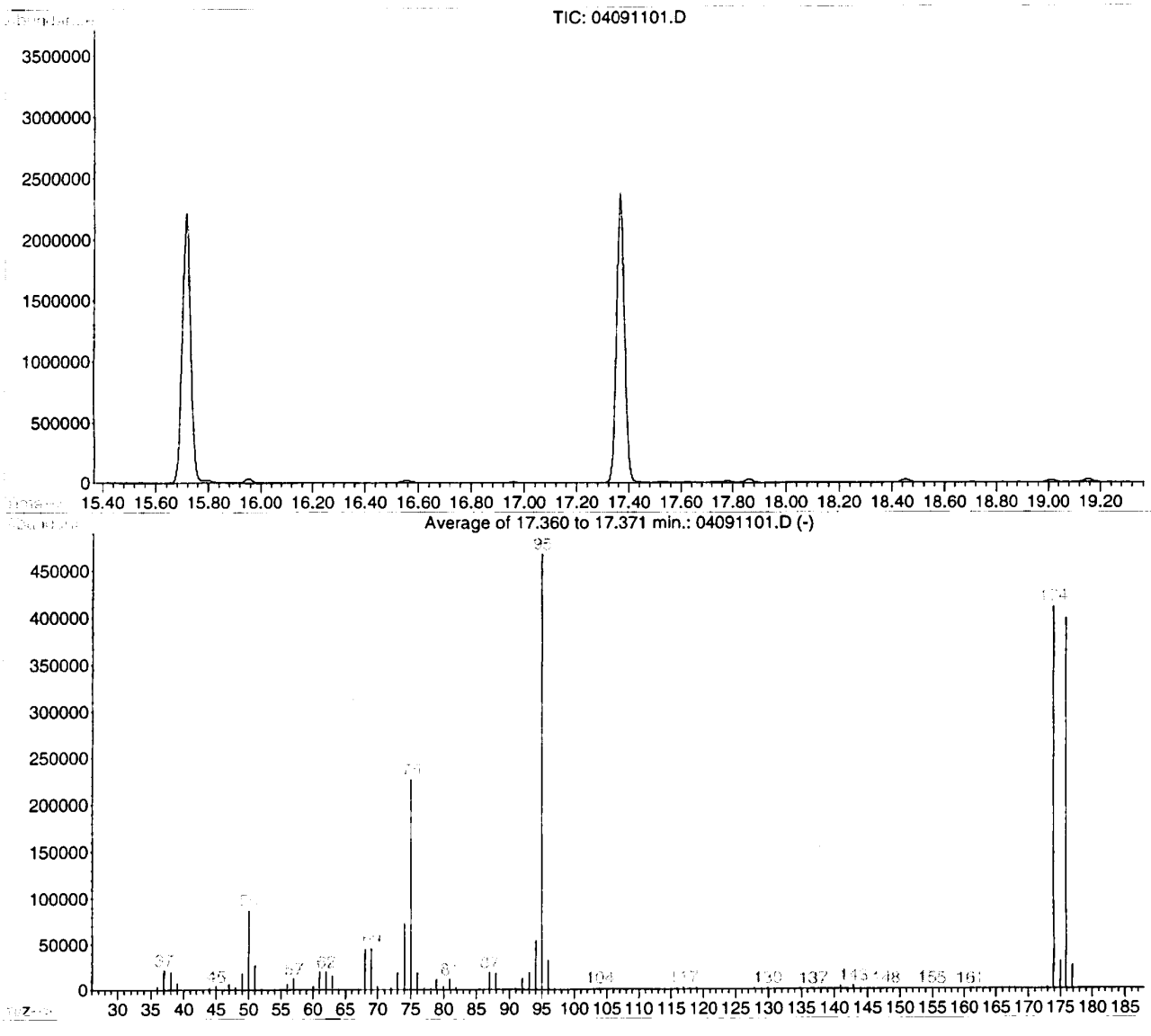
Directory: C:\HPCHEM\1\DATA\040911

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	04091101.d	1.	BFB 50cc voa020211c	ical EPA_TO15	9 Apr 2011 13:17
2	2	04091102.d	1.	MASS APH L1 20cc 030111a	ICAL MA_APH	9 Apr 2011 13:59
3	3	04091103.d	1.	MASS APH L2 40cc 030111a	ICAL MA_APH	9 Apr 2011 14:40
4	4	04091104.d	1.	MASS APH L3 48cc 030111a	ICAL MA_APH	9 Apr 2011 15:21
5	5	04091105.d	1.	MASS APH L4 60cc 030111a	ICAL MA_APH	9 Apr 2011 16:02
6	6	04091106.d	1.	MASS APH L5 80cc 030111a	ICAL MA_APH	9 Apr 2011 16:44
7	7	04091107.d	1.	MASS APH L6 125cc 030111a	ICAL MA_APH	9 Apr 2011 17:26
8	8	04091108.d	1.	MASS APH L7 200cc 030111a	ICAL MA_APH	9 Apr 2011 18:08
9	9	04091109.d	1.	BFB 50cc voa020211c	ical EPA_TO15	9 Apr 2011 18:48
10	10	04091110.d	1.	APH CCV 150cc voa020211b	CCV MA_APH	9 Apr 2011 19:30
11	11	04091111.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	9 Apr 2011 20:11
12		04091112.d	1.	No MS or GC data present		
13	13	04091113.d	80.	1103389-001B	SAMP MA_APH	9 Apr 2011 21:35
14	14	04091114.d	40000.	1103389-002B	SAMP MA_APH	9 Apr 2011 22:16
15	15	04091115.d	40000.	1103389-002BDUP	DUP MA_APH	9 Apr 2011 22:57
16	16	04091116.d	200.	1103389-003B	SAMP MA_APH	9 Apr 2011 23:41
17	17	04091117.d	2000.	1103389-004B	SAMP MA_APH	10 Apr 2011 00:23
18	18	04091118.d	2000.	1103389-005B	SAMP MA_APH	10 Apr 2011 01:05
19	19	04091119.d	20000.	1103389-006B	SAMP MA_APH	10 Apr 2011 01:47
20	20	04091120.d	20000.	1103389-007B	SAMP MA_APH	10 Apr 2011 07:15
21	21	04091121.d	10000.	1103389-008B	SAMP MA_APH	10 Apr 2011 02:28
22	22	04091122.d	10000.	1103389-009B	SAMP MA_APH	10 Apr 2011 03:09
23	23	04091123.d	80000.	1103389-010B	SAMP MA_APH	10 Apr 2011 03:49
24	24	04091124.d	8000.	1103389-011B – DATA NOT used 4/13/11 MTL	SAMP MA_APH	10 Apr 2011 04:30
25	25	04091125.d	1600.	1103389-012B	SAMP MA_APH	10 Apr 2011 05:12
26	26	04091126.d	40.	1103389-013B	SAMP MA_APH	10 Apr 2011 05:53
27	27	04091127.d	1600.	1103389-014B	SAMP MA_APH	10 Apr 2011 06:34
28	11	04091128.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	10 Apr 2011 08:14
29	12	04091129.d	1.	MBLK 4/09/11	MBLK MA_APH	10 Apr 2011 09:32
30	13	04091130.d	1.	MBLK 4/10/11	MBLK MA_APH	10 Apr 2011 10:15
31	24	04091131.d	800.	1103389-011B	SAMP MA_APH	10 Apr 2011 10:57
32	28	04091132.d	40.	1103389-015B	SAMP MA_APH	10 Apr 2011 11:38
33	29	04091133.d	40.	1103389-015BDUP	DUP MA_APH	10 Apr 2011 12:19
34	29	04091134.d	1600.	1103389-016B	SAMP MA_APH	10 Apr 2011 13:00
35	30	04091135.d	1600.	1103389-017B	SAMP MA_APH	10 Apr 2011 13:42
36	31	04091136.d	10000.	1103389-018B	SAMP MA_APH	10 Apr 2011 14:23
37	32	04091137.d	800.	1103389-019B	SAMP MA_APH	10 Apr 2011 15:04
38	33	04091138.d	8000.	1103389-020B	SAMP MA_APH	10 Apr 2011 15:47
39	34	04091139.d	160000.	1103389-021B	SAMP MA_APH	10 Apr 2011 16:28
40	35	04091140.d	80000.	1103389-022B	SAMP MA_APH	10 Apr 2011 17:09
41	36	04091141.d	80000.	1103389-023B	SAMP MA_APH	10 Apr 2011 17:50
42	37	04091142.d	80000.	1103389-024B	SAMP MA_APH	10 Apr 2011 18:31
43	38	04091143.d	80000.	1103389-025B – DATA NOT used MTL 4/13/11	SAMP MA_APH	10 Apr 2011 19:12
44	11	04091144.d	1.	APH RLVS 20cc voa020211a	RLVS MA_APH	10 Apr 2011 19:54

BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040911\04091101.D
Acq On : 9 Apr 2011 1:17 pm
Sample : BFB 50cc voa020211c
Misc : ical EPA_TO15
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3

Vial: 1
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00



Spectrum Information: Average of 17.360 to 17.371 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.7	87240	PASS
75	95	30	60	48.4	226219	PASS
95	95	100	100	100.0	467755	PASS
96	95	5	9	6.9	32075	PASS
173	174	0.00	2	0.4	1827	PASS
174	95	50	120	88.0	411733	PASS
175	174	4	9	7.4	30336	PASS
176	174	93	101	97.1	399808	PASS
177	176	5	9	6.6	26269	PASS

04091101.D 040911V1.M Wed Apr 13 19:03:07 2011

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration

Calibration Files
1 =04091102.D 2 =04091103.D 3 =04091104.D
4 =04091105.D 5 =04091106.D 6 =04091107.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	L1	C5-C8 Aliphatic HC	1.320	1.229	1.191	1.274	1.232	1.118	1.214	E5	6.01
2)	L1	C5-C8 Aliphatic HC	1.100	1.121	1.108	1.187	1.153	0.993	1.089	E5	7.61
3)	L1	C5-C8 Aliphatic HC	1.139	1.241	1.236	1.305	1.254	1.109	1.194	E5	7.21
4)	L1	C5-C8 Aliphatic HC	1.152	1.181	1.165	1.258	1.220	1.070	1.155	E5	6.77
5)	L1	C5-C8 Aliphatic HC	1.115	1.146	1.214	1.260	1.254	1.091	1.157	E5	7.78
6)	L1	C5-C8 Aliphatic HC	0.911	1.098	1.103	1.190	1.163	1.024	1.065	E5	9.68
7)	L1	C5-C8 Aliphatic HC	1.105	1.165	1.167	1.245	1.212	1.065	1.141	E5	6.96
8)	L1	C9-C12 Aliphatic HC	0.888	1.091	1.089	1.194	1.171	1.019	1.058	E5	10.59
9)	L1	C9-C12 Aliphatic HC	0.863	0.961	0.966	1.035	1.029	0.939	0.948	E5	7.73
10)	L1	C9-C12 Aliphatic HC	5.485	7.094	7.288	7.986	8.180	7.336	7.197	E4	12.15
11)	L1	C9-C12 Aliphatic HC	6.086	7.617	7.646	8.438	8.497	7.686	7.631	E4	10.46
12)	L1	C9-C12 Aliphatic HC	4.250	5.488	5.511	6.132	6.293	5.465	5.517	E4	11.91
13)	L1	C9-C12 Aliphatic HC	2.632	2.876	3.071	3.414	3.221	2.591	2.957	E4	10.15
14)	L1	C9-C12 Aliphatic HC	6.424	7.307	7.341	7.956	7.871	6.918	7.201	E4	8.22
15)	L1	C9-C10 Aromatic HC	0.794	0.956	0.950	1.040	1.037	0.932	0.945	E4	8.84
16)	L1	C9-C10 Aromatic HC	0.814	0.972	0.964	1.036	1.047	0.949	0.956	E4	8.25
17)	L1	C9-C10 Aromatic HC	1.068	1.275	1.260	1.357	1.382	1.238	1.250	E4	8.56
18)	L1	C9-C10 Aromatic HC	1.861	2.365	2.418	2.631	2.717	2.464	2.421	E3	11.38
19)	L1	C9-C10 Aromatic HC	7.286	8.908	8.900	9.536	9.634	8.762	8.852	E3	8.69
20)	L1	C9-C10 Aromatic HC	5.139	6.590	6.632	7.176	7.337	6.632	6.591	E3	10.75
21)	L1	C9-C10 Aromatic HC	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
22)		C5-C8 Aliphatic	1.105	1.165	1.167	1.245	1.212	1.065	1.141	E5	6.96
23)	L1	non C5-C8	1.040	0.976	0.908	0.959	0.907	0.797	0.908	E5	10.70
24)	L1	non C5-C8 {2}	6.351	7.438	7.541	8.113	7.693	6.343	7.091	E4	11.08
25)	L1	non C5-C8 {3}	5.700	5.577	5.741	5.925	6.028	6.142	5.934	E4	4.92
26)	L1	non C5-C8 {4}	0.872	0.983	1.003	1.125	1.051	0.873	0.966	E5	10.73
27)	L1	non C5-C8 {5}	0.967	0.961	0.992	1.031	1.046	1.080	1.028	E5	5.79
28)	L1	non C5-C8 {6}	0.881	1.053	1.061	1.137	1.111	0.941	1.013	E5	10.08
29)	L1	non C5-C8 - TOTAL	7.851	8.432	8.616	9.302	9.149	8.177	8.504	E4	6.54
30)		C9-C12 Aliphatic	6.424	7.307	7.341	7.956	7.871	6.918	7.201	E4	8.22
31)	L1	non C9-C12	0.863	0.961	0.966	1.035	1.029	0.939	0.948	E5	7.73
32)	L1	non C9-C12 {2}	7.726	9.237	9.202	9.988	9.836	8.499	8.939	E4	9.65
33)	L1	non C9-C12 {3}	7.482	9.003	8.990	9.694	9.633	8.476	8.759	E4	9.31
34)	L1	non C9-C12 {4}	6.885	8.351	8.302	8.888	8.858	7.833	8.110	E4	8.79
35)	L1	non C9-C12 {5}	5.738	5.967	5.978	6.326	6.568	6.910	6.396	E4	8.74
36)	L1	non C9-C12 - TOTAL	7.222	8.363	8.430	9.128	9.221	8.453	8.407	E4	8.02
37)	L1	C9-C10 Aromatic	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
38)	L1	C9-C10 Aromatic {2}	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
39)	L1	C9-C10 Aromatic - T	0.819	0.997	0.990	1.068	1.081	0.980	0.985	E4	8.75
40)	I	Chlorobenzene-d5	----------ISTD----------								
41)	S	4-Bromofluorobenzen	0.082	0.080	0.079	0.079	0.080	0.082	0.082		5.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091102.D Vial: 2
Acq On : 9 Apr 2011 1:59 pm Operator: Michael Truchan
Sample : MASS APH L1 20cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 10 8:23 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sun Apr 10 07:23:48 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

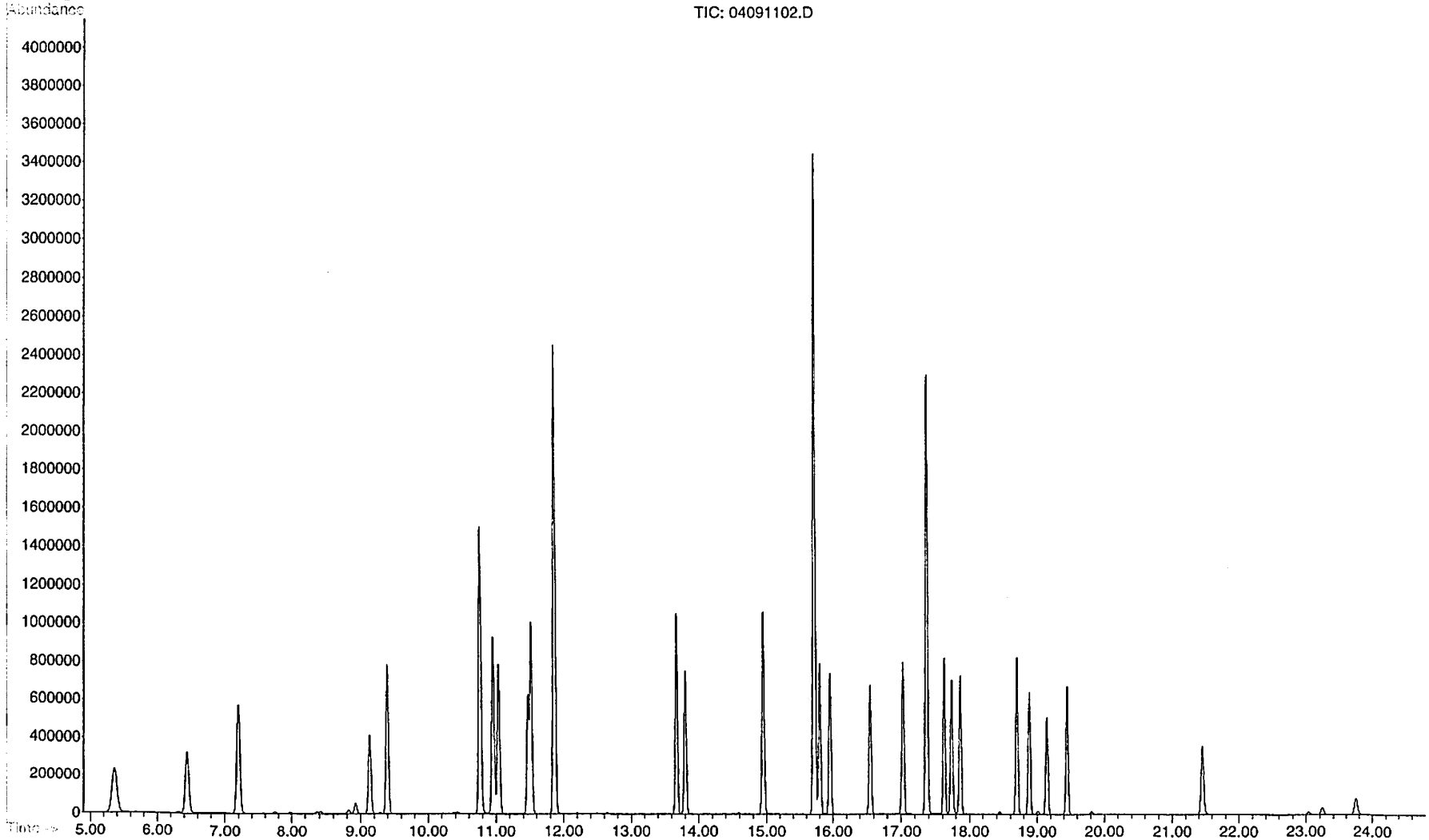
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	1795857	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1055797	89.60	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	1926860	15.88	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	2001469	18.38	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	2380803	19.94	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	2039462	17.66	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.52	TIC	2351762	20.33	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	2232339	20.97	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	12932695m	113.39	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	2424359	22.92	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.72	TIC	7542577	79.53	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	1678344	23.32	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	1850275	24.25	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	1491644	27.04	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	1008212	34.09	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	15995411m	222.11	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	204828	21.67	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	208281	21.78	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	278824	22.30	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	54715	22.60	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	191632	21.65	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	151098	22.92	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	1089378m	110.62	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	1926860	127.29	ug/m3	100
23) non C5-C8	6.44	TIC	1186169	13.06	ug/m3	100
24) non C5-C8 (2)	9.13	TIC	1168568	16.48	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3767805	63.50	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	1421480	14.72	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5644999	54.90	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	1727569	17.05	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	14916590m	175.40	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	7523030	338.68	ug/m3	100
31) non C9-C12	15.72	TIC	7542577	79.53	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	1761624	19.71	ug/m3	100
33) non C9-C12 (3)	15.96	TIC	1720748	19.65	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	1556069	19.19	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	5135217	80.29	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	17716235m	170.48	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091102.D 040911V1.M Wed Apr 13 19:03:56 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091102.D Vial: 2
Acq On : 9 Apr 2011 1:59 pm Operator: Michael Truchan
Sample : MASS APH L1 20cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 10 8:23 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091103.D Vial: 3
Acq On : 9 Apr 2011 2:40 pm Operator: Michael Truchan
Sample : MASS APH L2 40cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:05 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

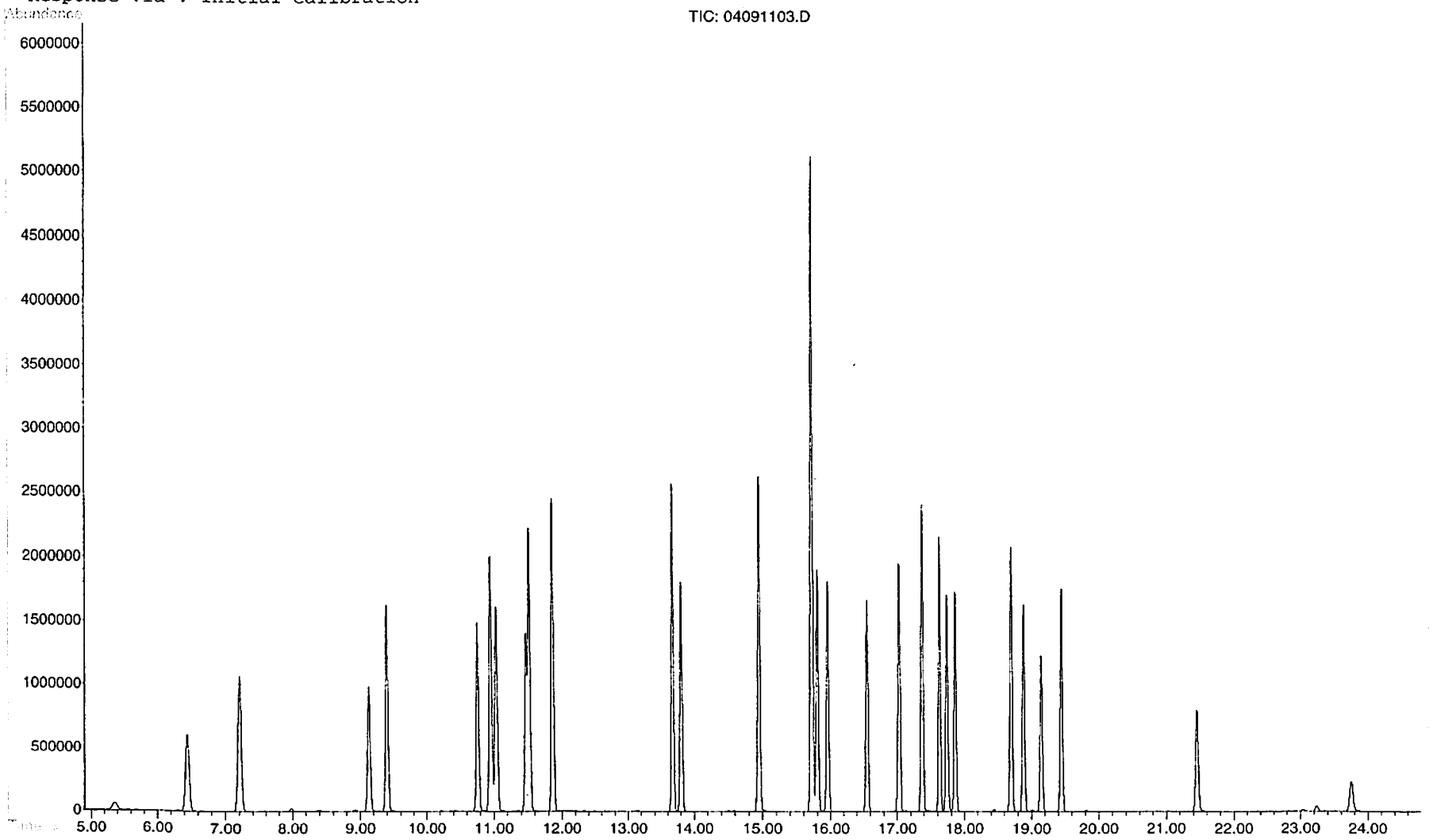
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1887899	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1084789	85.08	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	3589323	38.84	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	4081559	52.27	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	5186123	60.47	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	4181717	49.51	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.52	TIC	4836455	56.90	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	5382518	78.53	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	27257695m	379.08	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	5954693	75.12	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	11022757	157.49	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	4341390	98.62	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	4631051	84.19	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	3841271	103.73	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	2214497	122.39	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	32005659m	619.40	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	494398	69.54	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	497517	70.57	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	665481	71.84	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	138816	80.43	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	468575	73.05	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	386812	81.73	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2651599m	366.50	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	3588867	42.80	ug/m3	100
23) non C5-C8	6.44	TIC	2224761	32.52	ug/m3	100
24) non C5-C8 (2)	9.12	TIC	2737245	52.33	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3686321	83.31	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	3195952	45.25	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	5611458	73.90	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	4129076	54.99	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	21584813m	349.69	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	11001207	212.90	ug/m3	100
31) non C9-C12	15.71	TIC	11022757	178.30	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	4212229	73.30	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	4141452	62.84	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	3766387	61.65	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	5340361	109.81	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	28483186m	378.61	ug/m3	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091103.D Vial: 3
Acq On : 9 Apr 2011 2:40 pm Operator: Michael Truchan
Sample : MASS APH L2 40cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:05 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091104.D Vial: 4
Acq On : 9 Apr 2011 3:21 pm Operator: Michael Truchan
Sample : MASS APH L3 48cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:46 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

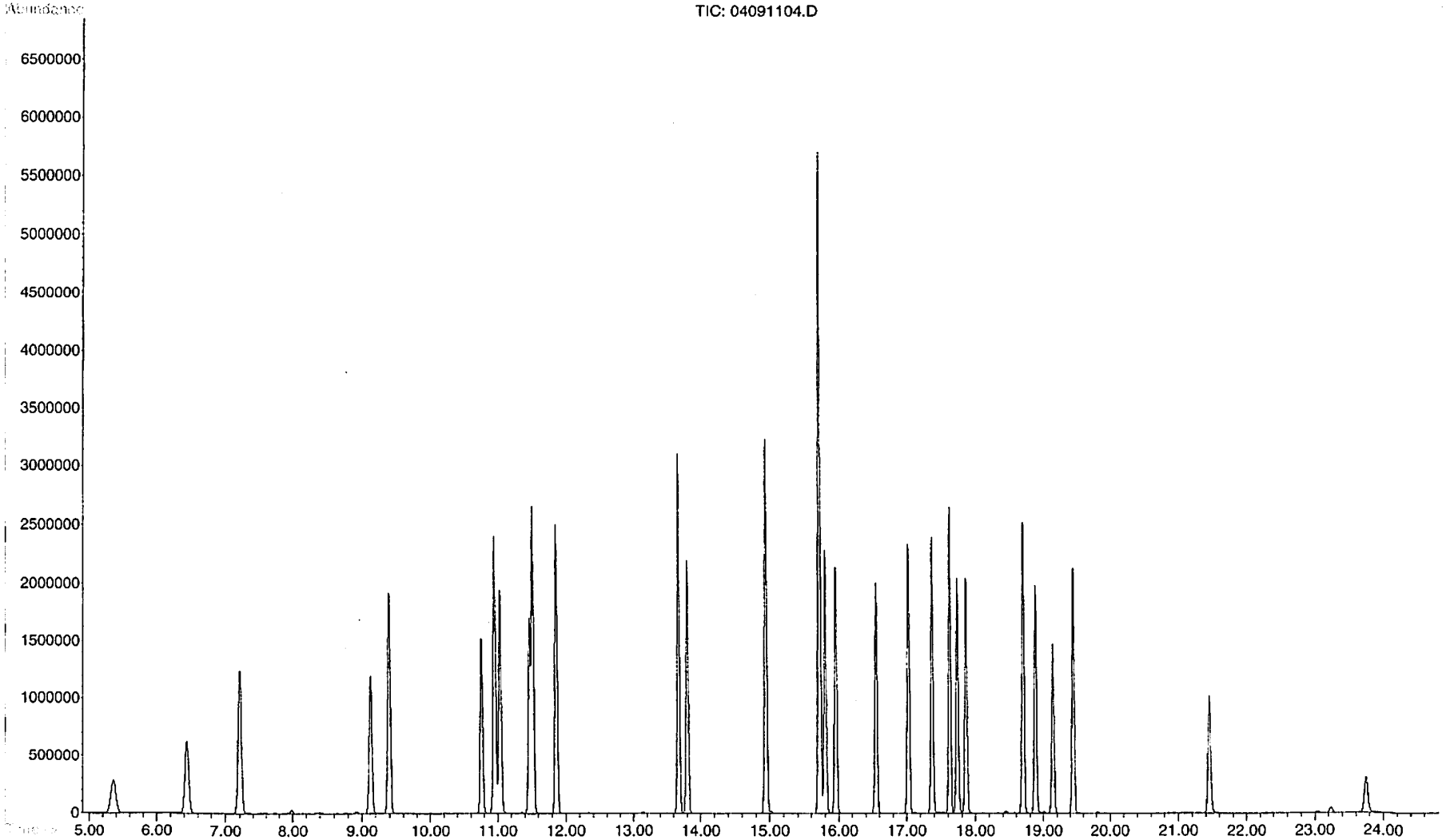
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	1920056	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1086589	83.79	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	4169700	45.12	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.39	TIC	4832465	61.89	ug/m3	100
3) C5-C8 Aliphatic HC {3}	10.95	TIC	6205269	72.36	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.03	TIC	4952412	58.64	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.51	TIC	6154021	72.40	ug/m3	100
6) C5-C8 Aliphatic HC {6}	13.67	TIC	6487668	94.66	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	32801535m	456.17	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	7189833	90.70	ug/m3	100
9) C9-C12 Aliphatic HC {2}	15.71	TIC	12185541	174.10	ug/m3	100
10) C9-C12 Aliphatic HC {3}	17.62	TIC	5320103	120.86	ug/m3	100
11) C9-C12 Aliphatic HC {4}	18.70	TIC	5581309	101.47	ug/m3	100
12) C9-C12 Aliphatic HC {5}	19.44	TIC	4629425	125.01	ug/m3	100
13) C9-C12 Aliphatic HC {6}	21.45	TIC	2825254	156.14	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	37731465m	730.21	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	588888	82.84	ug/m3	100
16) C9-C10 Aromatic HC {2}	17.73	120	591635	83.92	ug/m3	100
17) C9-C10 Aromatic HC {3}	17.86	120	793825	85.70	ug/m3	100
18) C9-C10 Aromatic HC {4}	18.88	120	169226	98.06	ug/m3	100
19) C9-C10 Aromatic HC {5}	19.14	120	560725	87.42	ug/m3	100
20) C9-C10 Aromatic HC {6}	18.88	134	464240	98.09	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	3168539m	437.96	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	4162816	49.64	ug/m3	100
23) non C5-C8	6.44	TIC	2479831	36.25	ug/m3	100
24) non C5-C8 {2}	9.12	TIC	3332947	63.72	ug/m3	100
25) non C5-C8 {3}	10.76	TIC	3794822	85.76	ug/m3	100
26) non C5-C8 {4}	11.47	TIC	3910856	55.37	ug/m3	100
27) non C5-C8 {5}	11.86	TIC	5792759	76.29	ug/m3	100
28) non C5-C8 {6}	13.80	TIC	4986203	66.41	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	24297418m	393.64	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	12158411	235.30	ug/m3	100
31) non C9-C12	15.71	TIC	12185541	197.11	ug/m3	100
32) non C9-C12 {2}	15.80	TIC	5033585	87.60	ug/m3	100
33) non C9-C12 {3}	15.95	TIC	4962655	75.30	ug/m3	100
34) non C9-C12 {4}	16.55	TIC	4499699	73.66	ug/m3	100
35) non C9-C12 {5}	17.37	TIC	5350625	110.02	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	32032105m	425.79	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091104.D 040911V1.M Wed Apr 13 19:04:08 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091104.D Vial: 4
Acq On : 9 Apr 2011 3:21 pm Operator: Michael Truchan
Sample : MASS APH L3 48cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 15:46 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091105.D Vial: 5
Acq On : 9 Apr 2011 4:02 pm Operator: Michael Truchan
Sample : MASS APH L4 60cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 16:27 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

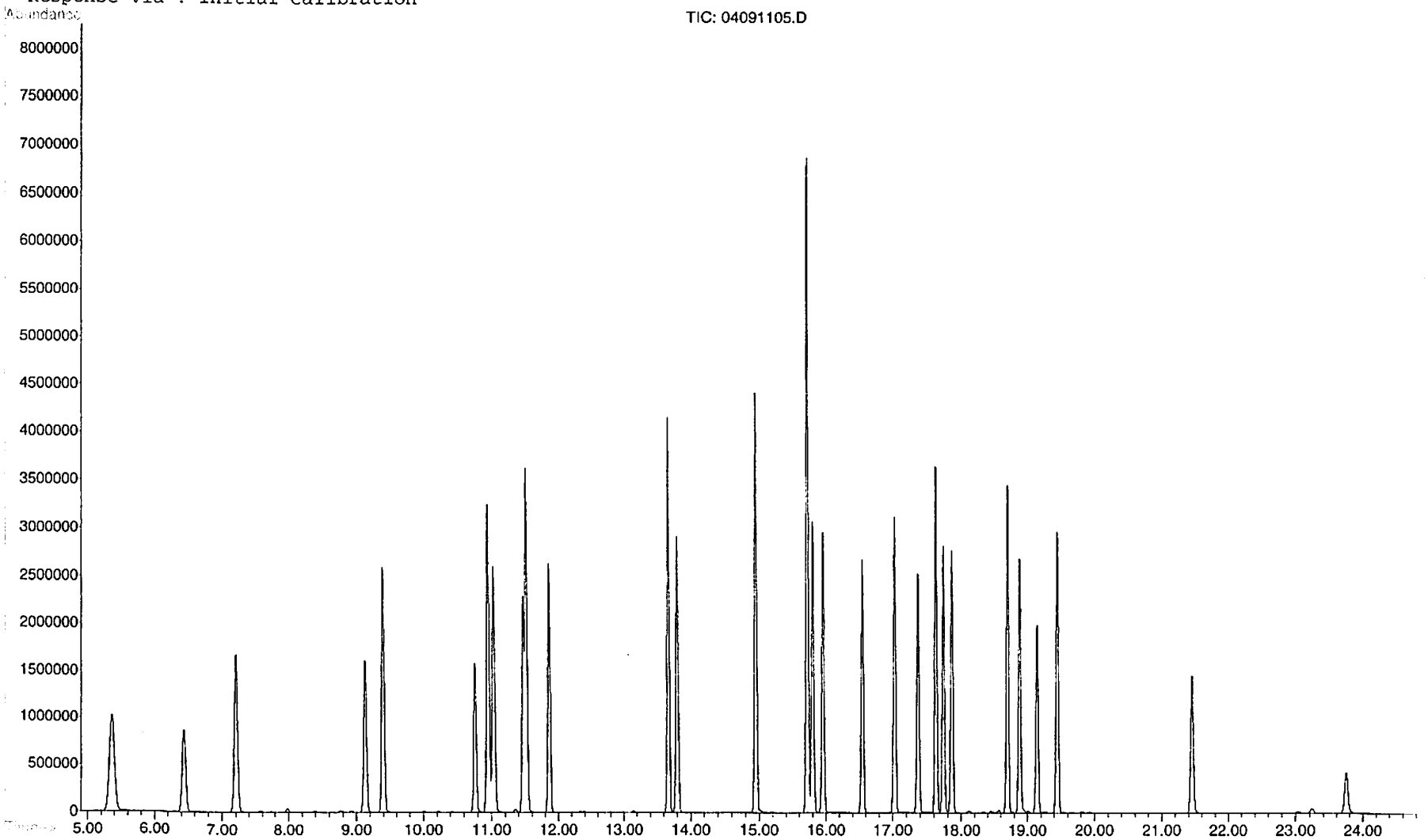
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2042222	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1151764	83.50	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	5580950	60.39	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	6469194	82.85	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	8218614	95.83	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.04	TIC	6680665	79.10	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.52	TIC	7936269	93.36	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	8804362	128.46	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	43690054m	607.60	ug/m3	
8) C9-C12 Aliphatic HC	14.94	TIC	9790309	123.51	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.72	TIC	14704700	210.09	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	7347225	166.90	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	7678903	139.60	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	6438858	173.87	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	3925770	216.97	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	49885765m	965.43	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	801005	112.67	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	797823	113.17	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	1058422	114.26	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	231540	134.16	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	753324	117.45	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	631462	133.42	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	4273576m	590.69	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	5578553	66.53	ug/m3	100
23) non C5-C8	6.44	TIC	3269131	47.79	ug/m3	100
24) non C5-C8 (2)	9.13	TIC	4478186	85.61	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3916527	88.51	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	5489346	77.73	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	6021186	79.30	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	6686292	89.05	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	29860668m	483.76	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	14691802	284.33	ug/m3	100
31) non C9-C12	15.72	TIC	14704700	237.85	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	6791861	118.20	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	6689141	101.49	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	6043616	98.93	ug/m3	100
35) non C9-C12 (5)	17.36	TIC	5661514	116.41	ug/m3	100
36) non C9-C12 - TOTAL	17.36	TIC	39890832m	530.25	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091105.D 040911V1.M Wed Apr 13 19:04:12 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091105.D Vial: 5
Acq On : 9 Apr 2011 4:02 pm Operator: Michael Truchan
Sample : MASS APH L4 60cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 16:27 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091106.D Vial: 6
Acq On : 9 Apr 2011 4:44 pm Operator: Michael Truchan
Sample : MASS APH L5 80cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:08 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

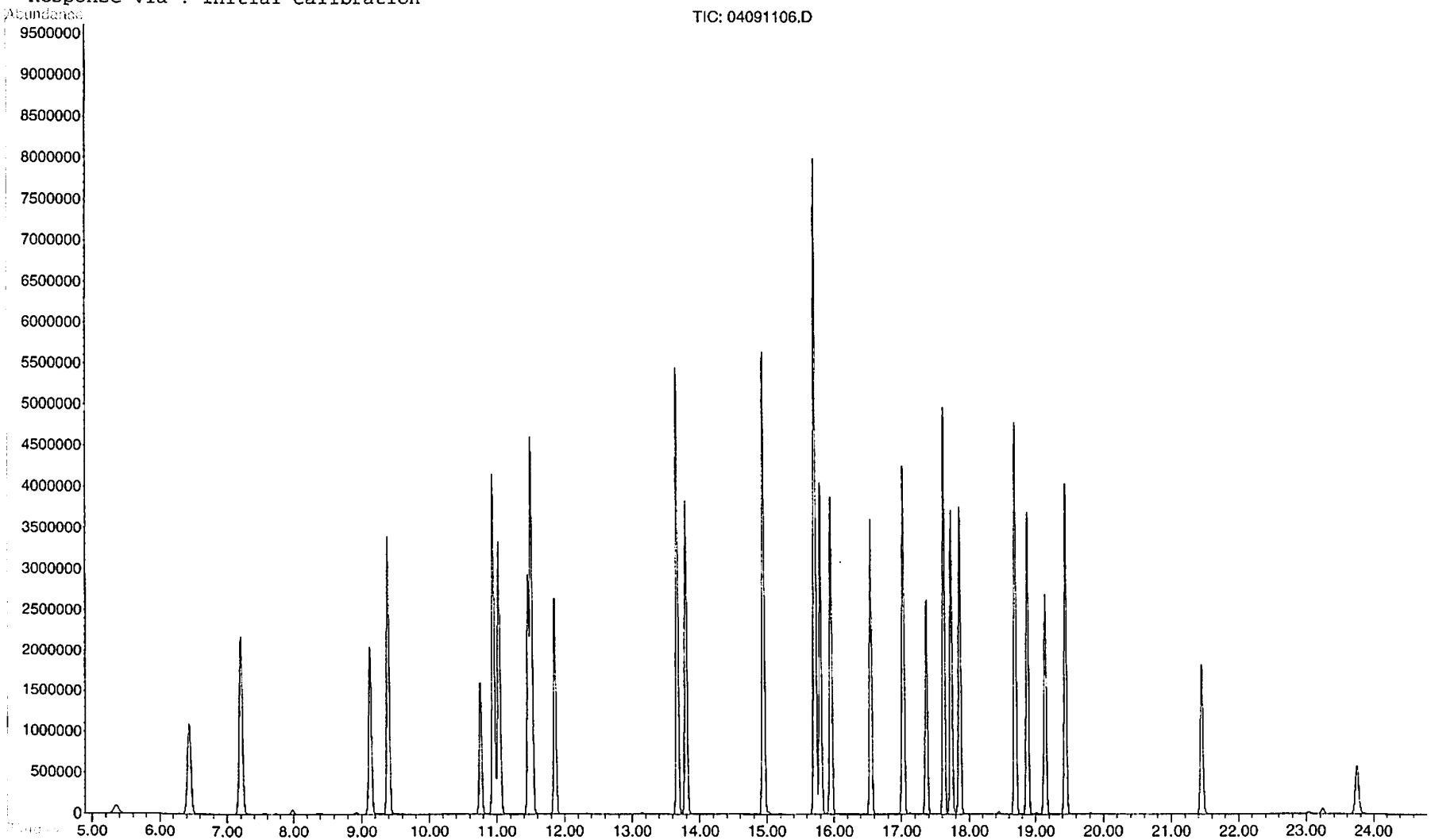
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2094090	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1202783	85.04	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	7197428	77.88	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	8420244	107.84	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	10535904	122.86	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	8660171	102.54	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	10533857	123.92	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	11395467	166.26	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	56743071m	789.13	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	12769173	161.09	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	17392904	248.50	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	9979298	226.70	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	10365886	188.45	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	8873107	239.61	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	4927923	272.35	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	64308291m	1244.54	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	1067664	150.18	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	1067943	151.49	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	1437200	155.15	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	317911	184.21	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	1011545	157.70	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	858469	181.38	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	5760732m	796.25	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	7196965	85.83	ug/m3	100
23) non C5-C8	6.44	TIC	4128214	60.35	ug/m3	100
24) non C5-C8 (2)	9.12	TIC	5692616	108.83	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	3984396	90.05	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	6828653	96.69	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	6109860	80.47	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	8663260	115.38	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	35406999m	573.62	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	17356083	335.89	ug/m3	100
31) non C9-C12	15.71	TIC	17392904	281.34	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	8951179	155.78	ug/m3	100
33) non C9-C12 (3)	15.96	TIC	8862065	134.46	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	7971872	130.49	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	5878805	120.88	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	49056825m	652.09	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091106.D 040911V1.M Wed Apr 13 19:04:17 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091106.D Vial: 6
Acq On : 9 Apr 2011 4:44 pm Operator: Michael Truchan
Sample : MASS APH L5 80cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:08 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091107.D
Acq On : 9 Apr 2011 5:26 pm
Sample : MASS APH L6 125cc 030111a
Misc : ICAL MA_APH
MS Integration Params: CLME.P
Quant Time: Apr 9 17:50 2011

Vial: 7
Operator: Michael Truchan
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

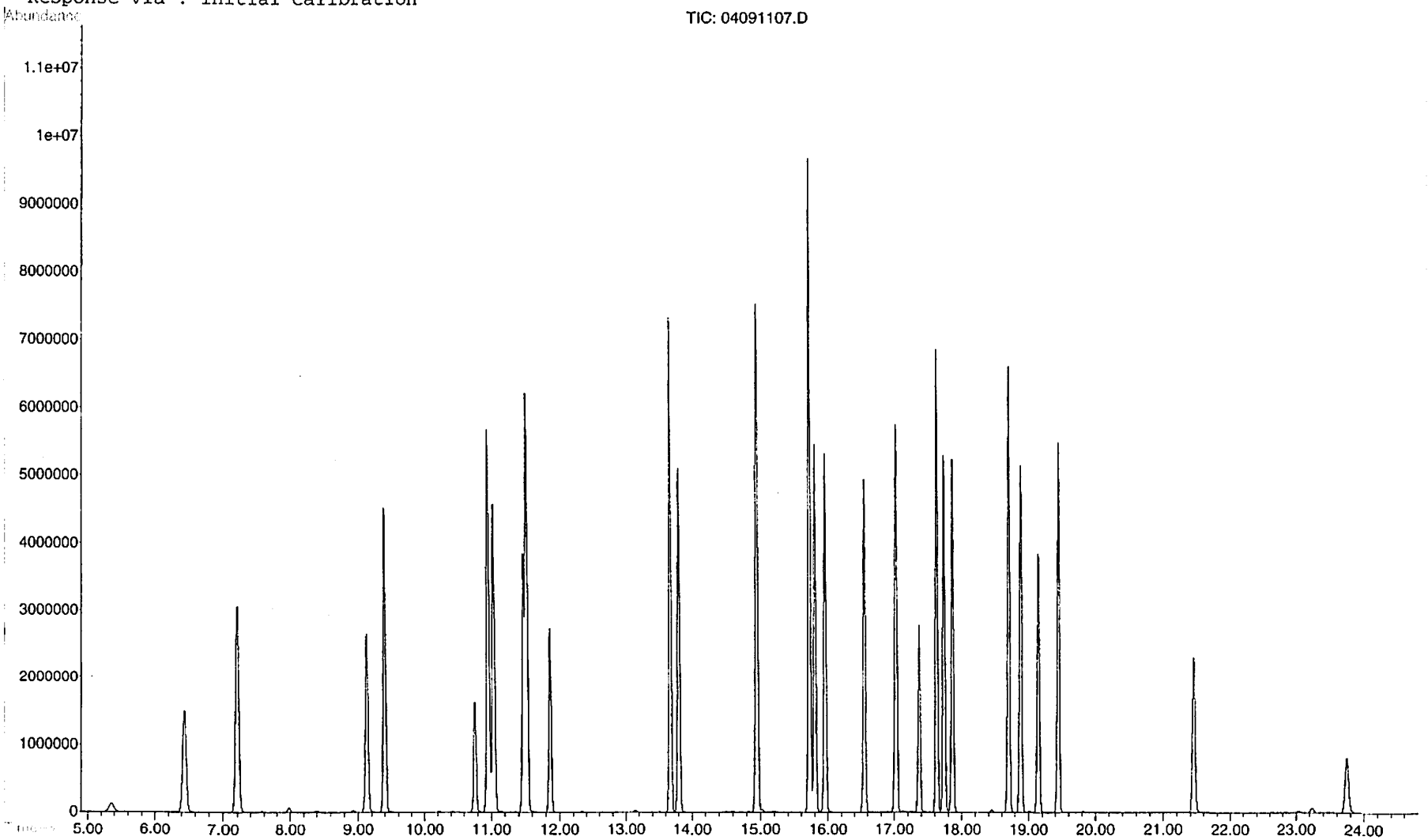
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2153442	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1270296	87.34	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	10211134	110.49	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	11275224	144.40	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	14499047	169.07	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	11846949	140.27	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.51	TIC	14406792	169.49	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	15695237	229.00	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	77934383m	1083.84	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	17392128	219.41	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.71	TIC	21667521	309.57	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	14032875	318.78	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	14611848	265.64	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	12006444	324.22	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	6208577	343.13	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	85919393m	1662.78	ug/m3	
15) C9-C10 Aromatic HC	17.03	120	1504035	211.56	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	1518130	215.35	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	2017933	217.84	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	452310	262.08	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	1441272	224.70	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	1217595	257.26	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	8151275m	1126.67	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	10210999	121.77	ug/m3	100
23) non C5-C8	6.44	TIC	5663625	82.79	ug/m3	100
24) non C5-C8 (2)	9.12	TIC	7301064	139.58	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4060128	91.76	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	8881289	125.75	ug/m3	100
27) non C5-C8 (5)	11.85	TIC	6309633	83.10	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	11531276	153.58	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	43747015m	708.73	ug/m3	
30) C9-C12 Aliphatic	15.71	TIC	21624115	418.49	ug/m3	100
31) non C9-C12	15.71	TIC	21667521	350.48	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	12102591	210.62	ug/m3	100
33) non C9-C12 (3)	15.95	TIC	12189200	184.94	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	11052277	180.92	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	6184889	127.17	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	63196478m	840.04	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091107.D 040911V1.M Wed Apr 13 19:04:22 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091107.D Vial: 7
Acq On : 9 Apr 2011 5:26 pm Operator: Michael Truchan
Sample : MASS APH L6 125cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 17:50 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091108.D Vial: 8
Acq On : 9 Apr 2011 6:08 pm Operator: Michael Truchan
Sample : MASS APH L7 200cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 18:33 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Sat Apr 09 13:37:43 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

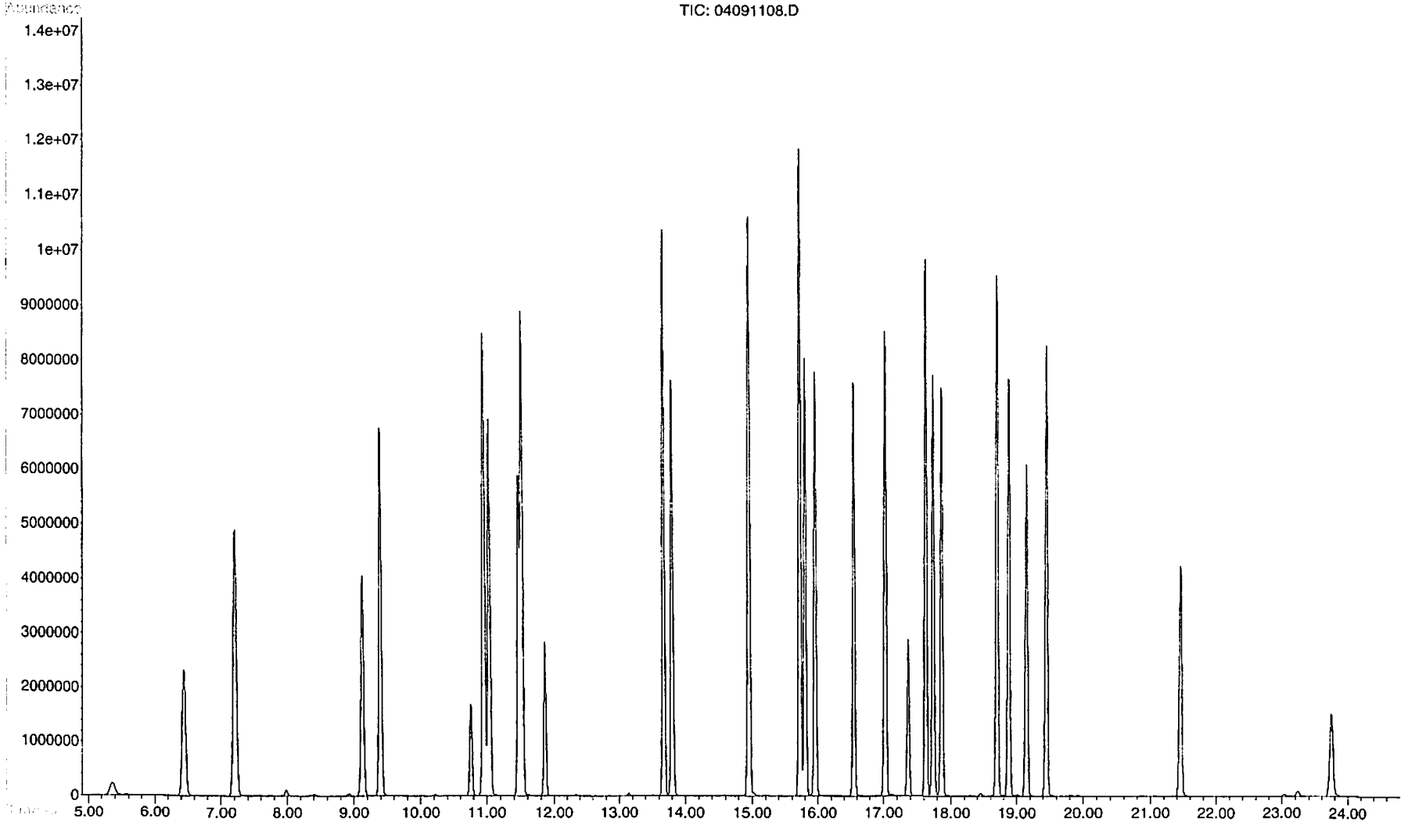
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.71	117	2062744	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.36	95	1348770	96.81	ug/m3	0.00
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	16509388	178.65	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	17452630	223.52	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	22445677	261.73	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	18379008	217.61	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.52	TIC	21509921	253.05	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	23579925	344.04	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	119876549m	1667.13	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	25955477	327.45	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.72	TIC	28183740	402.68	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	21471625	487.76	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	22661316	411.97	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	19255505	519.97	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	11103321	613.65	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	128630984m	2489.36	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	2346693	330.09	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	2331294	330.70	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	3056946	330.01	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	732908	424.67	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	2352488	366.76	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	1947707	411.53	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	12768036m	1764.80	ug/m3	
22) C5-C8 Aliphatic	7.20	TIC	16524572	197.07	ug/m3	100
23) non C5-C8	6.44	TIC	8745455	127.85	ug/m3	100
24) non C5-C8 (2)	9.13	TIC	11338453	216.77	ug/m3	100
25) non C5-C8 (3)	10.76	TIC	4246253	95.97	ug/m3	100
26) non C5-C8 (4)	11.47	TIC	13863297	196.29	ug/m3	100
27) non C5-C8 (5)	11.86	TIC	6544916	86.20	ug/m3	100
28) non C5-C8 (6)	13.80	TIC	17774355	236.72	ug/m3	100
29) non C5-C8 - TOTAL	13.80	TIC	62512729m	1012.75	ug/m3	
30) C9-C12 Aliphatic	15.72	TIC	28127440	544.34	ug/m3	100
31) non C9-C12	15.72	TIC	28183740	455.88	ug/m3	100
32) non C9-C12 (2)	15.80	TIC	18416479	320.50	ug/m3	100
33) non C9-C12 (3)	15.96	TIC	18478435	280.36	ug/m3	100
34) non C9-C12 (4)	16.55	TIC	17269328	282.69	ug/m3	100
35) non C9-C12 (5)	17.37	TIC	6517639	134.01	ug/m3	100
36) non C9-C12 - TOTAL	17.37	TIC	88865621m	1181.24	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091108.D 040911V1.M Wed Apr 13 19:04:26 2011 Page 1

Quantitation Report

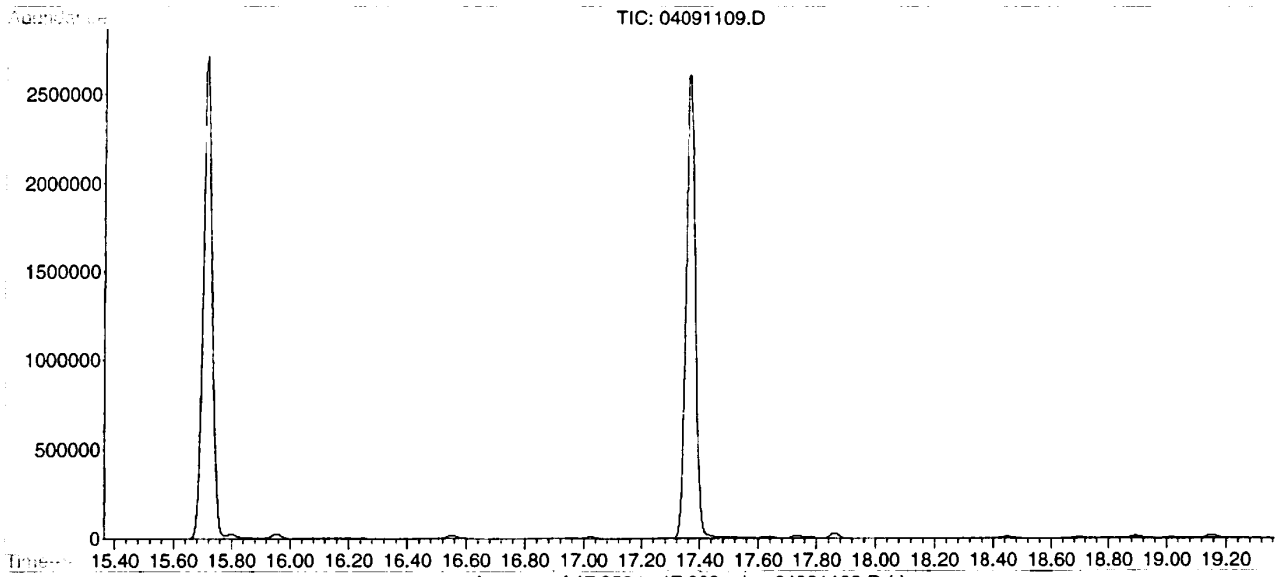
Data File : C:\HPCHEM\1\DATA\040911\04091108.D Vial: 8
Acq On : 9 Apr 2011 6:08 pm Operator: Michael Truchan
Sample : MASS APH L7 200cc 030111a Inst : GC/MS Ins
Misc : ICAL MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 9 18:33 2011 Quant Results File: 040911V1.RES

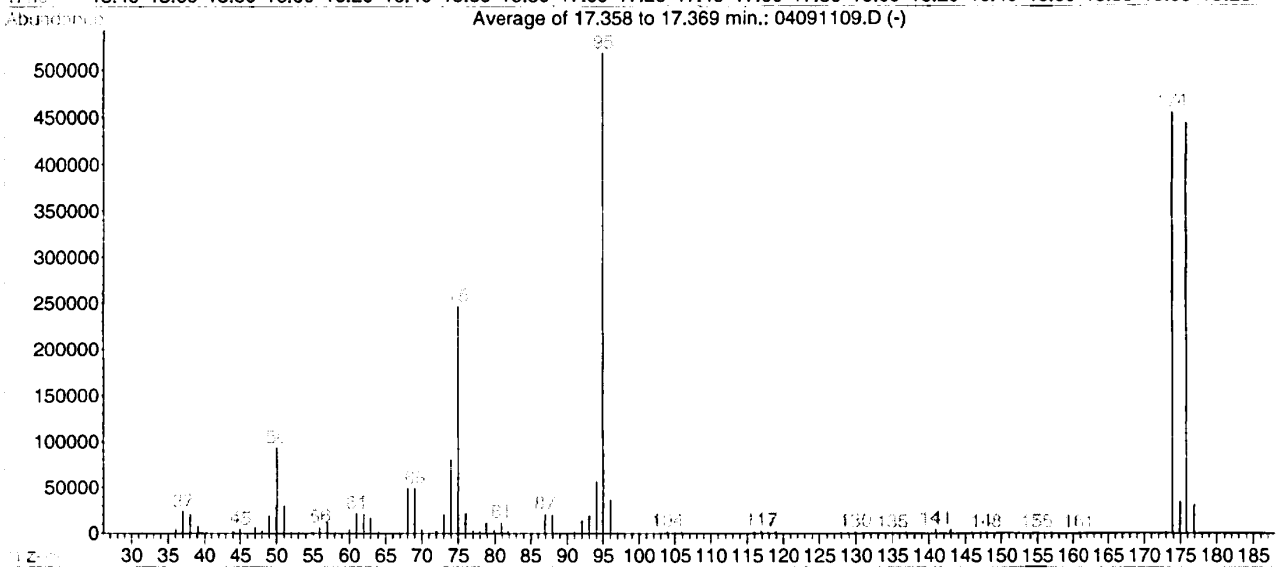
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



BFB Tune Check (TO-15)

Data File : C:\HPCHEM\1\DATA\040911\04091109.D Vial: 9
Acq On : 9 Apr 2011 6:48 pm Operator: Michael Truchan
Sample : BFB 50cc voa020211c Inst : GC/MS Ins
Misc : ical EPA_TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3





Spectrum Information: Average of 17.358 to 17.369 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	93203	PASS
75	95	30	60	47.4	245504	PASS
95	95	100	100	100.0	517525	PASS
96	95	5	9	7.0	36123	PASS
173	174	0.00	2	0.4	1970	PASS
174	95	50	120	87.6	453568	PASS
175	174	4	9	7.5	34109	PASS
176	174	93	101	97.6	442795	PASS
177	176	5	9	6.9	30477	PASS

04091109.D 040911V1.M Wed Apr 13 19:04:31 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040911\04091110.D Vial: 10
Acq On : 9 Apr 2011 7:30 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:28 2011 Quant Results File: 040911V1.RES

Quant Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 10:19:25 2011
Response via : Initial Calibration
DataAcq Meth : 040911V1

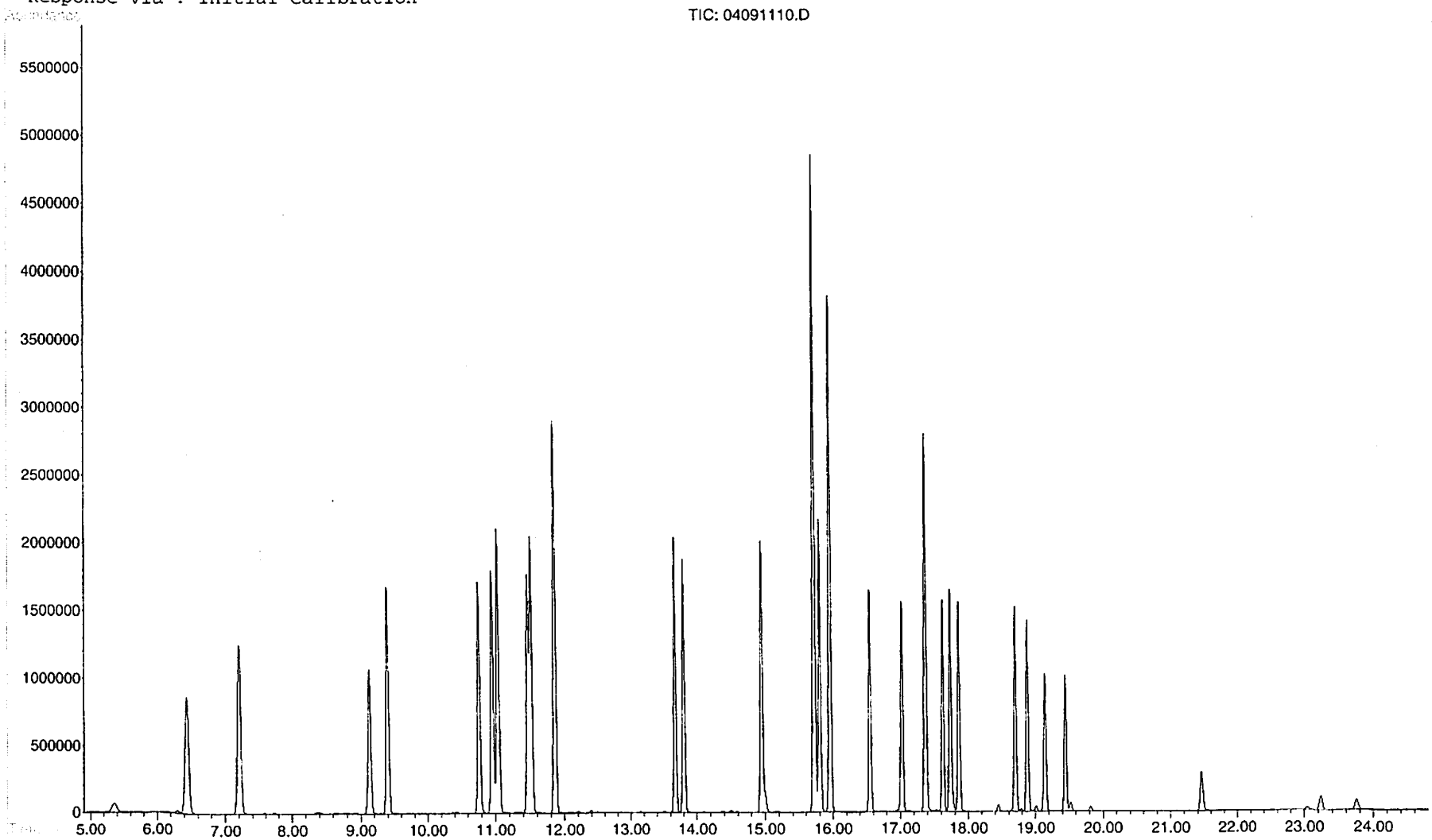
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	15.72	117	2160019	12.50	ug/m3	0.00
System Monitoring Compounds						
41) 4-Bromofluorobenzene	17.37	95	1284803	90.66	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 101.30%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.20	TIC	4200054	34.60	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.39	TIC	4232392	38.87	ug/m3	100
3) C5-C8 Aliphatic HC (3)	10.95	TIC	4622673	38.72	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.03	TIC	5471158	47.37	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.52	TIC	4391649	37.96	ug/m3	100
6) C5-C8 Aliphatic HC (6)	13.67	TIC	4310128	40.49	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.20	TIC	27228054m	238.72	ug/m3	
8) C9-C12 Aliphatic HC	14.95	TIC	4903904	46.37	ug/m3	100
9) C9-C12 Aliphatic HC (2)	15.72	TIC	10460732	110.29	ug/m3	100
10) C9-C12 Aliphatic HC (3)	17.62	TIC	3175751	44.12	ug/m3	100
11) C9-C12 Aliphatic HC (4)	18.70	TIC	3394018	44.47	ug/m3	100
12) C9-C12 Aliphatic HC (5)	19.44	TIC	2257292	40.92	ug/m3	100
13) C9-C12 Aliphatic HC (6)	21.45	TIC	840945	28.44	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	21.45	TIC	25032642m	347.60	ug/m3	
15) C9-C10 Aromatic HC	17.02	120	402554	42.58	ug/m3	100
16) C9-C10 Aromatic HC (2)	17.73	120	487286	50.97	ug/m3	100
17) C9-C10 Aromatic HC (3)	17.86	120	604364	48.34	ug/m3	100
18) C9-C10 Aromatic HC (4)	18.88	120	120463	49.75	ug/m3	100
19) C9-C10 Aromatic HC (5)	19.14	120	384998	43.49	ug/m3	100
20) C9-C10 Aromatic HC (6)	18.88	134	336685	51.08	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	18.88	134	2336350m	237.24	ug/m3	

(#) = qualifier out of range (m) = manual integration
04091110.D 040911V1.M Wed Apr 13 19:04:36 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040911\04091110.D Vial: 10
Acq On : 9 Apr 2011 7:30 pm Operator: Michael Truchan
Sample : APH CCV 150cc voa020211b Inst : GC/MS Ins
Misc : CCV MA_APH Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Apr 11 13:28 2011 Quant Results File: 040911V1.RES

Method : C:\HPCHEM\1\METHODS\040911V1.M (RTE Integrator)
Title : Mass. APH ug/m3
Last Update : Mon Apr 11 13:27:18 2011
Response via : Initial Calibration



GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\041111\04111101.D
Tune Time : 11 Apr 2011 10:37 am

Daily Calibration File : C:\HPCHEM\1\DATA\040911\04091103.D

File	Sample	Surrogate Recovery %	Internal Standard Responses 1887900
04111101.D	BFB 50cc	105	1847358
04111102.D	APH CCV	100	1917581
04111103.D	APH RLVS	100	1880164
04111104.D	MBLK 4/1	100	1783600
04111105.D	1103389-	103	1826005
04111106.D	1103389-	102	1489921
04111107.D	1103389-	101	1468713
04111108.D	1103389-	98	1515279
04111109.D	1103389-	97	1468263
04111110.D	1103389-	97	1431762
04111111.D	1103389-	101	1495621
04111112.D	1103389-	100	1511145
04111113.D	1103389-	106	1755736
04111114.D	1103389-	108	1839065
04111115.D	1103389-	109	1792417
04111116.D	1103389-	110	1820309
04111117.D	1103389-	93	1334485
04111118.D	1103389-	96	1580234
04111119.D	1103389-	101	1729834
04111120.D	MBLK(2)	98	1743270
04111121.D	1103609-	107	1793066
04111122.D	1103609-	106	1807064
04111123.D	1103609-	103	1779004
04111124.D	1103609-	106	1833568
04111125.D	1103609-	106	1759930
04111126.D	1103609-	108	1815788
04111127.D	1103609-	103	1762706
04111128.D	1103609-	105	1765491
04111129.D	APH RLVS	99	1821660

t - fails 24hr time check * - fails criteria

Created: Wed Apr 13 19:13:39 2011 GC MS Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\041211\04121101.D
Tune Time : 12 Apr 2011 10:08 am

Daily Calibration File : C:\HPCHEM\1\DATA\040911\04091103.D

			1887900
File	Sample	Surrogate Recovery %	Internal Standard Responses
04121101.D	BFB 50cc	103	1730790
04121102.D	APH CCV	99	1819913
04121103.D	APH RLVS	99	1796176
04121104.D	MBLK 4/1	98	1676051
04121105.D	1103609-	104	1581090
04121106.D	1103609-	103	1527678
04121107.D	1103609-	103	1503051
04121108.D	1103609-	104	1595196
04121109.D	1103609-	101	1650373
04121110.D	1103609-	103	1614032
04121111.D	1103609-	103	1607112
04121112.D	1103609-	105	1695513
04121113.D	1103609-	106	1731193
04121114.D	1103609-	100	1746607
04121115.D	1103609-	102	1670582
04121116.D	1103609-	104	1737604
04121117.D	1103609-	102	1677636
04121118.D	1103609-	100	1757614
04121119.D	1103609-	103	1776258
04121120.D	1103609-	102	1751041
04121121.D	1103609-	104	1830203
04121122.D	1103609-	102	1753563
04121123.D	1103609-	100	1762885
04121124.D	1103609-	101	1805329
04121125.D	1103609-	102	1787576
04121129.D	APH RLVS	99	1876192

t - fails 24hr time check * - fails criteria

Created: Wed Apr 13 19:21:46 2011 GC MS Ins

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\041311\04131101.D
Tune Time : 13 Apr 2011 3:47 pm

Daily Calibration File : C:\HPCHEM\1\DATA\040911\04091103.D

1887900

File	Sample	Surrogate Recovery %	Internal Standard Responses
04131101.D	BFB 50cc	98	1740103
04131102.D	APH CCV	97	1851998
04131103.D	APH RLVS	97	1902586
04131104.D	MBLK 4/1	95	1762798
04131105.D	1103609-	101	1878673
04131106.D	1103609-	101	1920644
04131107.D	1103389-	109	1978142
04131108.D	1103389-	144*	1737277
04131109.D	1103609-	147*	1627264
04131110.D	BLANK	101	2605276
04131111.D	1103389-	101	2557124
04131112.D	1103389-	101	2548761
04131113.D	1103609-	104	2792036
04131114.D	1103389-	104	2528962
04131115.D	APH RLVS	102	2427829

t - fails 24hr time check * - fails criteria

Created: Fri Apr 15 13:00:35 2011 GC MS Ins

RTI Laboratories

Run ID: GC-TCD 1_110328A **Run No.:** 39564

Analytical Run Date: 3/28/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39564	3/29/2011 12:36:00 AM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39564	3/29/2011 1:02:00 AM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39564	3/29/2011 1:28:00 AM	Robert Lynch		
lcs	ASTM-D2504	LCS	R39564	3/29/2011 2:02:00 AM	Robert Lynch		
lcsd	ASTM-D2504	LCSD	R39564	3/29/2011 3:07:00 AM	Robert Lynch		
mb	ASTM-D2504	MBLK	R39564	3/29/2011 3:37:00 AM	Robert Lynch		
1103609-001b	ASTM-D2504	SAMP	R39564	3/29/2011 3:58:00 AM	Robert Lynch	H	
1103609-002b	ASTM-D2504	SAMP	R39564	3/29/2011 4:26:00 AM	Robert Lynch	H	
1103609-003b	ASTM-D2504	SAMP	R39564	3/29/2011 4:58:00 AM	Robert Lynch	H	
1103609-004b	ASTM-D2504	SAMP	R39564	3/29/2011 5:40:00 AM	Robert Lynch	H	
1103609-005b	ASTM-D2504	SAMP	R39564	3/29/2011 6:01:00 AM	Robert Lynch	H	
1103609-006b	ASTM-D2504	SAMP	R39564	3/29/2011 6:26:00 AM	Robert Lynch	H	
1103609-006bdup	ASTM-D2504	DUP	R39564	3/29/2011 6:51:00 AM	Robert Lynch	H	
1103609-007b	ASTM-D2504	SAMP	R39564	3/29/2011 7:35:00 AM	Robert Lynch	H	
crql std 2% b	ASTM-D2504	CRQL	R39564	3/29/2011 8:23:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39564	3/29/2011 8:43:00 AM	Robert Lynch		

RTI Laboratories

Run ID: GC-TCD 1_110329A **Run No.:** 39565

Analytical Run Date: 3/29/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39565	3/29/2011 11:48:00 PM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39565	3/30/2011 12:09:00 AM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39565	3/30/2011 12:33:00 AM	Robert Lynch		
1103609-008b	ASTM-D2504	SAMP	R39564	3/30/2011 1:10:00 AM	Robert Lynch	H	
1103609-009b	ASTM-D2504	SAMP	R39564	3/30/2011 1:30:00 AM	Robert Lynch	H	
1103609-010b	ASTM-D2504	SAMP	R39564	3/30/2011 2:30:00 AM	Robert Lynch	H	
1103609-011b	ASTM-D2504	SAMP	R39564	3/30/2011 3:04:00 AM	Robert Lynch	H	
1103609-012b	ASTM-D2504	SAMP	R39564	3/30/2011 3:32:00 AM	Robert Lynch	H	
1103609-013b	ASTM-D2504	SAMP	R39564	3/30/2011 4:02:00 AM	Robert Lynch	H	
1103609-014b	ASTM-D2504	SAMP	R39564	3/30/2011 4:30:00 AM	Robert Lynch	H	
1103609-015b	ASTM-D2504	SAMP	R39564	3/30/2011 5:11:00 AM	Robert Lynch	H	
1103609-016b	ASTM-D2504	SAMP	R39564	3/30/2011 6:07:00 AM	Robert Lynch	H	
1103609-017b	ASTM-D2504	SAMP	R39564	3/30/2011 6:30:00 AM	Robert Lynch	H	
1103609-017bdup	ASTM-D2504	DUP	R39564	3/30/2011 7:06:00 AM	Robert Lynch	H	
ccb	ASTM-D2504	CCB	R39565	3/30/2011 7:27:00 AM	Robert Lynch		
crql std 2% b	ASTM-D2504	CRQL	R39565	3/30/2011 9:07:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39565	3/30/2011 9:42:00 AM	Robert Lynch		

RTI Laboratories

Run ID: GC-TCD 1_110330A **Run No.:** 39566

Analytical Run Date: 3/30/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:**

Calibration ID: **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
icb	ASTM-D2504	ICB	R39566	3/30/2011 11:11:00 PM	Robert Lynch		
ccv std 1-2 a	ASTM-D2504	CCV	R39566	3/30/2011 11:41:00 PM	Robert Lynch		
crql std 2% a	ASTM-D2504	CRQL	R39566	3/31/2011 12:01:00 AM	Robert Lynch		
lcs	ASTM-D2504	LCS	R39566	3/31/2011 1:13:00 AM	Robert Lynch		
lcsd	ASTM-D2504	LCSD	R39566	3/31/2011 1:36:00 AM	Robert Lynch		
mb	ASTM-D2504	MBLK	R39566	3/31/2011 2:04:00 AM	Robert Lynch		
1103609-018b	ASTM-D2504	SAMP	R39566	3/31/2011 2:38:00 AM	Robert Lynch	H	
1103609-019b	ASTM-D2504	SAMP	R39566	3/31/2011 2:59:00 AM	Robert Lynch	H	
1103609-020b	ASTM-D2504	SAMP	R39566	3/31/2011 3:27:00 AM	Robert Lynch	H	
1103609-021b	ASTM-D2504	SAMP	R39566	3/31/2011 3:50:00 AM	Robert Lynch	H	
1103609-022b	ASTM-D2504	SAMP	R39566	3/31/2011 4:11:00 AM	Robert Lynch	H	
1103609-023b	ASTM-D2504	SAMP	R39566	3/31/2011 4:46:00 AM	Robert Lynch	H	
1103609-024b	ASTM-D2504	SAMP	R39566	3/31/2011 5:07:00 AM	Robert Lynch	H	
1103609-025b	ASTM-D2504	SAMP	R39566	3/31/2011 5:27:00 AM	Robert Lynch	H	
1103609-026b	ASTM-D2504	SAMP	R39566	3/31/2011 5:46:00 AM	Robert Lynch	H	
1103609-027b	ASTM-D2504	SAMP	R39566	3/31/2011 6:05:00 AM	Robert Lynch	H	
1103609-027bdup	ASTM-D2504	DUP	R39566	3/31/2011 6:29:00 AM	Robert Lynch	H	
crql std 2% b	ASTM-D2504	CRQL	R39566	3/31/2011 8:07:00 AM	Robert Lynch		
ccv std 1-2 b	ASTM-D2504	CCV	R39566	3/31/2011 8:53:00 AM	Robert Lynch		

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39564

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751091	icb	ASTM-D2504	ICB	.TA\032811\0328	3/29/2011 12:36:	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751092	ccv std 1-2 a	ASTM-D2504	CCV	.TA\032811\0328	3/29/2011 1:02:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.402	2.402		2.5	0	0	0.13	0.3	0	96%	85	115	0%	
Carbon Monoxide	A	%	2.478	2.478		2.5	0	0	0.066	0.14	0	99%	85	115	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.808	1.808		2	0	0	0.043	0.09	0	90%	85	115	0%	
Nitrogen	A	%	2.628	2.628		2.5	0	0	0.63	1.39	0	105%	85	115	0%	
Oxygen	A	%	2.358	2.358		2.5	0	0	0.03	0.08	0	94%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751093	crql std 2% a	ASTM-D2504	CRQL	.TA\032811\0328	3/29/2011 1:28:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.323	0.323		0.3	0	0	0.13	0.3	0	108%	80	120	0%	
Carbon Monoxide	A	%	0.149	0.149		0.14	0	0	0.066	0.14	0	106%	80	120	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.092	0.092		0.09	0	0	0.043	0.09	0	102%	80	120	0%	
Nitrogen	A	%	1.455	1.455		1.39	0	0	0.63	1.39	0	105%	80	120	0%	
Oxygen	A	%	0.093	0.093		0.08	0	0	0.03	0.08	0	116%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751094	lcs	ASTM-D2504	LCS	.TA\032811\0328	3/29/2011 2:02:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751094	lcs	ASTM-D2504	LCS	.TA\032811\0328	3/29/2011 2:02:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.459	2.459		2.5	0	0	0.13	0.3	0	98%	70	130	0%	
Carbon Monoxide	A	%	2.506	2.506		2.5	0	0	0.066	0.14	0	100%	70	130	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.986	1.986		2	0	0	0.043	0.09	0	99%	70	130	0%	
Nitrogen	A	%	2.751	2.751		2.5	0	0	0.63	1.39	0	110%	70	130	0%	
Oxygen	A	%	2.404	2.404		2.5	0	0	0.03	0.08	0	96%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751095	lcsd	ASTM-D2504	LCSD	.TA\032811\0328	3/29/2011 3:07:0	1	R39564		0	751094	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.428	2.428		2.5	0	2.459	0.13	0.3	0	97%	70	130	1%	
Carbon Monoxide	A	%	2.522	2.522		2.5	0	2.506	0.066	0.14	0	101%	70	130	1%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.997	1.997		2	0	1.986	0.043	0.09	0	100%	70	130	1%	
Nitrogen	A	%	3.085	3.085		2.5	0	2.751	0.63	1.39	0	123%	70	130	11%	
Oxygen	A	%	2.58	2.58		2.5	0	2.404	0.03	0.08	0	103%	70	130	7%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751096	mb	ASTM-D2504	MBLK	.TA\032811\0328	3/29/2011 3:37:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751097	1103609-001b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 3:58:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	4.487	4.487		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	82.508	82.508		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	9.783	9.783		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751098	1103609-002b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 4:26:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	5.147	5.147		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80.902	80.902		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	11.716	11.716		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751099	1103609-003b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 4:58:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	7.647	7.647		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751099	1103609-003b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 4:58:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	84.576	84.576		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	5.103	5.103		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751100	1103609-004b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 5:40:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.873	0.873		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80.029	80.029		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.273	17.273		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751101	1103609-005b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 6:01:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.496	0.496		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.432	77.432		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.012	19.012		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751102	1103609-006b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 6:26:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.912	1.912		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.218	78.218		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.509	17.509		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751103	1103609-006bdup	ASTM-D2504	DUP	.TA\032811\0328	3/29/2011 6:51:0	1	R39564		0	751102	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.923	1.923		0	0	1.912	0.13	0.3	0	0%	0	0	1%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.249	78.249		0	0	78.218	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.512	17.512		0	0	17.509	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751104	1103609-007b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 7:35:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.045	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	75.874	75.874		0	0	0	0.63	1.39	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751104	1103609-007b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032811\0328	3/29/2011 7:35:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Oxygen	A	%	20.563	20.563		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751105	crql std 2% b	ASTM-D2504	CRQL	.TA\032811\0328	3/29/2011 8:23:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.339	0.339		0.3	0	0	0.13	0.3	0	113%	80	120	0%	
Carbon Monoxide	A	%	0.165	0.165		0.14	0	0	0.066	0.14	0	118%	80	120	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.1	0.1		0.09	0	0	0.043	0.09	0	111%	80	120	0%	
Nitrogen	A	%	1.571	1.571		1.39	0	0	0.63	1.39	0	113%	80	120	0%	
Oxygen	A	%	0.094	0.094		0.08	0	0	0.03	0.08	0	118%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751106	ccv std 1-2 b	ASTM-D2504	CCV	.TA\032811\0328	3/29/2011 8:43:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.442	2.442		2.5	0	0	0.13	0.3	0	98%	85	115	0%	
Carbon Monoxide	A	%	2.569	2.569		2.5	0	0	0.066	0.14	0	103%	85	115	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.983	1.983		2	0	0	0.043	0.09	0	99%	85	115	0%	
Nitrogen	A	%	2.744	2.744		2.5	0	0	0.63	1.39	0	110%	85	115	0%	
Oxygen	A	%	2.398	2.398		2.5	0	0	0.03	0.08	0	96%	85	115	0%	

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39565

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751107	icb	ASTM-D2504	ICB	.TA\032911\0329	3/29/2011 11:48:	1	R39565		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751108	ccv std 1-2 a	ASTM-D2504	CCV	.TA\032911\0329	3/30/2011 12:09:	1	R39565		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.31	2.31		2.5	0	0	0.13	0.3	0	92%	85	115	0%	
Carbon Monoxide	A	%	2.427	2.427		2.5	0	0	0.066	0.14	0	97%	85	115	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.894	1.894		2	0	0	0.043	0.09	0	95%	85	115	0%	
Nitrogen	A	%	2.763	2.763		2.5	0	0	0.63	1.39	0	111%	85	115	0%	
Oxygen	A	%	2.407	2.407		2.5	0	0	0.03	0.08	0	96%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751109	crql std 2% a	ASTM-D2504	CRQL	.TA\032911\0329	3/30/2011 12:33:	1	R39565		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.311	0.311		0.3	0	0	0.13	0.3	0	104%	80	120	0%	
Carbon Monoxide	A	%	0.153	0.153		0.14	0	0	0.066	0.14	0	109%	80	120	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.096	0.096		0.09	0	0	0.043	0.09	0	107%	80	120	0%	
Nitrogen	A	%	1.46	1.46		1.39	0	0	0.63	1.39	0	105%	80	120	0%	
Oxygen	A	%	0.074	0.074		0.08	0	0	0.03	0.08	0	93%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751110	1103609-008b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 1:10:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751110	1103609-008b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 1:10:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.174	1.174		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	83.391	83.391		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	13.2	13.2		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751111	1103609-009b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 1:30:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.734	0.734		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80.523	80.523		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	15.752	15.752		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751112	1103609-010b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 2:30:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	8.434	8.434		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751112	1103609-010b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 2:30:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	85.498	85.498		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	3.981	3.981		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751113	1103609-011b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 3:04:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	7.952	7.952		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	82.767	82.767		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	7.218	7.218		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751114	1103609-012b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 3:32:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.51	0.51		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.131	78.131		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	20.054	20.054		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751115	1103609-013b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 4:02:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	8.307	8.307		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	83.123	83.123		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	6.27	6.27		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751116	1103609-014b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 4:30:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	9.109	9.109		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	85.1	85.1		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	3.478	3.478		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751117	1103609-015b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 5:11:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.751	0.751		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751117	1103609-015b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 5:11:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	78.698	78.698		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	19.418	19.418		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751118	1103609-016b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 6:07:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.194	0.194		0	0	0	0.13	0.3	0	0%	0	0	0%	J
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.043	78.043		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	20.691	20.691		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751119	1103609-017b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\032911\0329	3/30/2011 6:30:0	1	R39564		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.853	0.853		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.717	78.717		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	18.568	18.568		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751120	1103609-017bdup	ASTM-D2504	DUP	.TA\032911\0329	3/30/2011 7:06:0	1	R39564		0	751119	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.856	0.856		0	0	0.853	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.029	79.029		0	0	78.717	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	18.639	18.639		0	0	18.568	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751121	ccb	ASTM-D2504	CCB	.TA\032911\0329	3/30/2011 7:27:0	1	R39565		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751122	crql std 2% b	ASTM-D2504	CRQL	.TA\032911\0329	3/30/2011 9:07:0	1	R39565		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.301	0.301		0.3	0	0	0.13	0.3	0	100%	80	120	0%	
Carbon Monoxide	A	%	0.136	0.136		0.14	0	0	0.066	0.14	0	97%	80	120	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.098	0.098		0.09	0	0	0.043	0.09	0	109%	80	120	0%	
Nitrogen	A	%	1.166	1.166		1.39	0	0	0.63	1.39	0	84%	80	120	0%	
Oxygen	A	%	0.079	0.079		0.08	0	0	0.03	0.08	0	99%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751123	ccv std 1-2 b	ASTM-D2504	CCV	.TA\032911\0329	3/30/2011 9:42:0	1	R39565		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.412	2.412		2.5	0	0	0.13	0.3	0	96%	85	115	0%	
Carbon Monoxide	A	%	2.549	2.549		2.5	0	0	0.066	0.14	0	102%	85	115	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.972	1.972		2	0	0	0.043	0.09	0	99%	85	115	0%	
Nitrogen	A	%	2.84	2.84		2.5	0	0	0.63	1.39	0	114%	85	115	0%	
Oxygen	A	%	2.519	2.519		2.5	0	0	0.03	0.08	0	101%	85	115	0%	

RTI Laboratories

ANALYTICAL RUN Summary

17-Apr-11

RunNo 39566

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751124	icb	ASTM-D2504	ICB	.TA\033011\0330	3/30/2011 11:11:	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751125	ccv std 1-2 a	ASTM-D2504	CCV	.TA\033011\0330	3/30/2011 11:41:	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.25	2.25		2.5	0	0	0.13	0.3	0	90%	85	115	0%	
Carbon Monoxide	A	%	2.383	2.383		2.5	0	0	0.066	0.14	0	95%	85	115	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.926	1.926		2	0	0	0.043	0.09	0	96%	85	115	0%	
Nitrogen	A	%	2.74	2.74		2.5	0	0	0.63	1.39	0	110%	85	115	0%	
Oxygen	A	%	2.388	2.388		2.5	0	0	0.03	0.08	0	96%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751126	crql std 2% a	ASTM-D2504	CRQL	.TA\033011\0330	3/31/2011 12:01:	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.333	0.333		0.3	0	0	0.13	0.3	0	111%	80	120	0%	
Carbon Monoxide	A	%	0.163	0.163		0.14	0	0	0.066	0.14	0	116%	80	120	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.099	0.099		0.09	0	0	0.043	0.09	0	110%	80	120	0%	
Nitrogen	A	%	1.662	1.662		1.39	0	0	0.63	1.39	0	120%	80	120	0%	
Oxygen	A	%	0.088	0.088		0.08	0	0	0.03	0.08	0	110%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751127	lcs	ASTM-D2504	LCS	.TA\033011\0330	3/31/2011 1:13:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751127	lcs	ASTM-D2504	LCS	.TA\033011\0330	3/31/2011 1:13:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.291	2.291		2.5	0	0	0.13	0.3	0	92%	70	130	0%	
Carbon Monoxide	A	%	2.477	2.477		2.5	0	0	0.066	0.14	0	99%	70	130	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.955	1.955		2	0	0	0.043	0.09	0	98%	70	130	0%	
Nitrogen	A	%	2.838	2.838		2.5	0	0	0.63	1.39	0	114%	70	130	0%	
Oxygen	A	%	2.446	2.446		2.5	0	0	0.03	0.08	0	98%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751128	lcsd	ASTM-D2504	LCSD	.TA\033011\0330	3/31/2011 1:36:0	1	R39566		0	751127	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.252	2.252		2.5	0	2.291	0.13	0.3	0	90%	70	130	2%	
Carbon Monoxide	A	%	2.461	2.461		2.5	0	2.477	0.066	0.14	0	98%	70	130	1%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.944	1.944		2	0	1.955	0.043	0.09	0	97%	70	130	1%	
Nitrogen	A	%	2.923	2.923		2.5	0	2.838	0.63	1.39	0	117%	70	130	3%	
Oxygen	A	%	2.48	2.48		2.5	0	2.446	0.03	0.08	0	99%	70	130	1%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751129	mb	ASTM-D2504	MBLK	.TA\033011\0330	3/31/2011 2:04:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751130	1103609-018b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 2:38:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.362	0.362		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.647	79.647		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.961	17.961		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751131	1103609-019b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 2:59:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.459	0.459		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.749	79.749		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.065	17.065		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751132	1103609-020b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 3:27:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.29	1.29		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751132	1103609-020b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 3:27:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	79.766	79.766		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	16.566	16.566		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751133	1103609-021b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 3:50:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.262	1.262		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.489	79.489		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	16.6	16.6		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751134	1103609-022b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 4:11:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.42	0.42		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	79.398	79.398		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.056	17.056		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751135	1103609-023b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 4:46:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.392	0.392		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	80.565	80.565		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	16.853	16.853		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751136	1103609-024b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 5:07:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.313	0.313		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.34	78.34		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	18.482	18.482		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751137	1103609-025b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 5:27:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.372	0.372		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751137	1103609-025b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 5:27:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Nitrogen	A	%	80.945	80.945		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	15.067	15.067		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751138	1103609-026b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 5:46:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	1.015	1.015		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.648	78.648		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	16.156	16.156		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751139	1103609-027b (Container-01 of 01)	ASTM-D2504	SAMP	.TA\033011\0330	3/31/2011 6:05:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.791	0.791		0	0	0	0.13	0.3	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	77.642	77.642		0	0	0	0.63	1.39	0	0%	0	0	0%	
Oxygen	A	%	17.063	17.063		0	0	0	0.03	0.08	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751140	1103609-027bdup	ASTM-D2504	DUP	.TA\033011\0330	3/31/2011 6:29:0	1	R39566		0	751139	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.795	0.795		0	0	0.791	0.13	0.3	0	0%	0	0	1%	
Carbon Monoxide	A	%	0	0		0	0	0	0.066	0.14	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.043	0.09	0	0%	0	0	0%	
Nitrogen	A	%	78.227	78.227		0	0	77.642	0.63	1.39	0	0%	0	0	1%	
Oxygen	A	%	17.188	17.188		0	0	17.063	0.03	0.08	0	0%	0	0	1%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751141	crql std 2% b	ASTM-D2504	CRQL	.TA\033011\0330	3/31/2011 8:07:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.332	0.332		0.3	0	0	0.13	0.3	0	111%	80	120	0%	
Carbon Monoxide	A	%	0.162	0.162		0.14	0	0	0.066	0.14	0	116%	80	120	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.104	0.104		0.09	0	0	0.043	0.09	0	116%	80	120	0%	
Nitrogen	A	%	1.596	1.596		1.39	0	0	0.63	1.39	0	115%	80	120	0%	
Oxygen	A	%	0.092	0.092		0.08	0	0	0.03	0.08	0	115%	80	120	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
751142	ccv std 1-2 b	ASTM-D2504	CCV	.TA\033011\0330	3/31/2011 8:53:0	1	R39566		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.193	2.193		2.5	0	0	0.13	0.3	0	88%	85	115	0%	
Carbon Monoxide	A	%	2.376	2.376		2.5	0	0	0.066	0.14	0	95%	85	115	0%	
Ethane	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0			0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.842	1.842		2	0	0	0.043	0.09	0	92%	85	115	0%	
Nitrogen	A	%	2.861	2.861		2.5	0	0	0.63	1.39	0	114%	85	115	0%	
Oxygen	A	%	2.402	2.402		2.5	0	0	0.03	0.08	0	96%	85	115	0%	

Spikes and Surrogates Report

RunID: GC-TCD 1_110328A **Analyst:** Mike Budziak

RunNo: 39564

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751092	ccv std 1-2 a	ASTM-D2504	CCV	R39564	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	2.5	2.478	99.12%	85	115		
☑	Methane	2	1.808	90.40%	85	115		
☑	Nitrogen	2.5	2.628	105.12%	85	115		
☑	Oxygen	2.5	2.358	94.32%	85	115		
☑	Carbon dioxide	2.5	2.402	96.08%	85	115		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751093	crql std 2% a	ASTM-D2504	CRQL	R39564	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon dioxide	0.3	0.323	107.67%	80	120		
☑	Carbon Monoxide	0.14	0.149	106.43%	80	120		
☑	Methane	0.09	0.092	102.22%	80	120		
☑	Nitrogen	1.39	1.455	104.68%	80	120		
☑	Oxygen	0.08	0.093	116.25%	80	120		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751094	lcs	ASTM-D2504	LCS	R39564	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.404	96.16%	70	130		
☑	Carbon dioxide	2.5	2.459	98.36%	70	130		
☑	Carbon Monoxide	2.5	2.506	100.24%	70	130		
☑	Methane	2	1.986	99.30%	70	130		
☑	Nitrogen	2.5	2.751	110.04%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751095	lcsd	ASTM-D2504	LCSD	R39564	1	751094

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	RPD	RPD Limit	RPD Out	Qual
☑	Carbon Monoxide	2.5	2.522	100.88%	70	130		0.64%	20		
☑	Methane	2	1.997	99.85%	70	130		0.55%	20		
☑	Nitrogen	2.5	3.085	123.40%	70	130		11.45%	20		
☑	Oxygen	2.5	2.58	103.20%	70	130		7.06%	20		
☑	Carbon dioxide	2.5	2.428	97.12%	70	130		1.27%	20		

Total Recoveries Out: 0 **Total RPD Out:** 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751105	crql std 2% b	ASTM-D2504	CRQL	R39564	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon dioxide	0.3	0.339	113.00%	80	120		
☑	Carbon Monoxide	0.14	0.165	117.86%	80	120		
☑	Methane	0.09	0.1	111.11%	80	120		
☑	Nitrogen	1.39	1.571	113.02%	80	120		
☑	Oxygen	0.08	0.094	117.50%	80	120		

Spikes and Surrogates Report

RunID: GC-TCD 1_110328A **Analyst:** Mike Budziak

RunNo: 39564

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751105	crql std 2% b	ASTM-D2504	CRQL	R39564	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751106	ccv std 1-2 b	ASTM-D2504	CCV	R39564	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.398	95.92%	85	115		
☑	Carbon dioxide	2.5	2.442	97.68%	85	115		
☑	Carbon Monoxide	2.5	2.569	102.76%	85	115		
☑	Methane	2	1.983	99.15%	85	115		
☑	Nitrogen	2.5	2.744	109.76%	85	115		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: GC-TCD 1_110329A **Analyst:** Mike Budziak

RunNo: 39565

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751108	ccv std 1-2 a	ASTM-D2504	CCV	R39565	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	2.5	2.427	97.08%	85	115		
☑	Methane	2	1.894	94.70%	85	115		
☑	Nitrogen	2.5	2.763	110.52%	85	115		
☑	Oxygen	2.5	2.407	96.28%	85	115		
☑	Carbon dioxide	2.5	2.31	92.40%	85	115		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751109	crql std 2% a	ASTM-D2504	CRQL	R39565	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	0.08	0.074	92.50%	80	120		
☑	Carbon dioxide	0.3	0.311	103.67%	80	120		
☑	Carbon Monoxide	0.14	0.153	109.29%	80	120		
☑	Methane	0.09	0.096	106.67%	80	120		
☑	Nitrogen	1.39	1.46	105.04%	80	120		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751122	crql std 2% b	ASTM-D2504	CRQL	R39565	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	0.14	0.136	97.14%	80	120		
☑	Methane	0.09	0.098	108.89%	80	120		
☑	Nitrogen	1.39	1.166	83.88%	80	120		
☑	Oxygen	0.08	0.079	98.75%	80	120		
☑	Carbon dioxide	0.3	0.301	100.33%	80	120		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751123	ccv std 1-2 b	ASTM-D2504	CCV	R39565	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.519	100.76%	85	115		
☑	Carbon dioxide	2.5	2.412	96.48%	85	115		
☑	Carbon Monoxide	2.5	2.549	101.96%	85	115		
☑	Methane	2	1.972	98.60%	85	115		
☑	Nitrogen	2.5	2.84	113.60%	85	115		

Total Recoveries Out: 0

Spikes and Surrogates Report

RunID: GC-TCD 1_110330A **Analyst:** Mike Budziak

RunNo: 39566

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751125	ccv std 1-2 a	ASTM-D2504	CCV	R39566	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon Monoxide	2.5	2.383	95.32%	85	115		
☑	Methane	2	1.926	96.30%	85	115		
☑	Nitrogen	2.5	2.74	109.60%	85	115		
☑	Oxygen	2.5	2.388	95.52%	85	115		
☑	Carbon dioxide	2.5	2.25	90.00%	85	115		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751126	crql std 2% a	ASTM-D2504	CRQL	R39566	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon dioxide	0.3	0.333	111.00%	80	120		
☑	Carbon Monoxide	0.14	0.163	116.43%	80	120		
☑	Methane	0.09	0.099	110.00%	80	120		
☑	Nitrogen	1.39	1.662	119.57%	80	120		
☑	Oxygen	0.08	0.088	110.00%	80	120		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751127	lcs	ASTM-D2504	LCS	R39566	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.446	97.84%	70	130		
☑	Carbon dioxide	2.5	2.291	91.64%	70	130		
☑	Carbon Monoxide	2.5	2.477	99.08%	70	130		
☑	Methane	2	1.955	97.75%	70	130		
☑	Nitrogen	2.5	2.838	113.52%	70	130		

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751128	lcsd	ASTM-D2504	LCSD	R39566	1	751127

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	RPD	RPD Limit	RPD Out	Qual
☑	Carbon Monoxide	2.5	2.461	98.44%	70	130		0.65%	20		
☑	Methane	2	1.944	97.20%	70	130		0.56%	20		
☑	Nitrogen	2.5	2.923	116.92%	70	130		2.95%	20		
☑	Oxygen	2.5	2.48	99.20%	70	130		1.38%	20		
☑	Carbon dioxide	2.5	2.252	90.08%	70	130		1.72%	20		

Total Recoveries Out: 0 **Total RPD Out:** 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751141	crql std 2% b	ASTM-D2504	CRQL	R39566	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Carbon dioxide	0.3	0.332	110.67%	80	120		
☑	Carbon Monoxide	0.14	0.162	115.71%	80	120		
☑	Methane	0.09	0.104	115.56%	80	120		
☑	Nitrogen	1.39	1.596	114.82%	80	120		
☑	Oxygen	0.08	0.092	115.00%	80	120		

Spikes and Surrogates Report

RunID: GC-TCD 1_110330A **Analyst:** Mike Budziak

RunNo: 39566

Spikes

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751141	crql std 2% b	ASTM-D2504	CRQL	R39566	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual

Total Recoveries Out: 0

SeqNo	SampID	TestCode	SampType	BatchID	DF	Duplicate Of
751142	ccv std 1-2 b	ASTM-D2504	CCV	R39566	1	

Rpt	Analyte	SpkVal	CalcVal	REC	LowLimit	HighLimit	Rec Out	Qual
☑	Oxygen	2.5	2.402	96.08%	85	115		
☑	Carbon dioxide	2.5	2.193	87.72%	85	115		
☑	Carbon Monoxide	2.5	2.376	95.04%	85	115		
☑	Methane	2	1.842	92.10%	85	115		
☑	Nitrogen	2.5	2.861	114.44%	85	115		

Total Recoveries Out: 0

Method Blank Contamination Report

Blank ID: mb
SeqNo: 751096
Analysis Date: 3/29/2011 3:37:00 AM
Analyst: Mike Budziak

Batch ID: R39564
TestCode: ASTM-D2504
RunID: GC-TCD 1_110328A
InstrumentID: GC-TCD 1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
icb	751091	ASTM-D2504	ICB	GC-TCD 1_110328A	R39564	3/29/2011 12:36:00 AM	1
ccv std 1-2 a	751092	ASTM-D2504	CCV	GC-TCD 1_110328A	R39564	3/29/2011 1:02:00 AM	1
crql std 2% a	751093	ASTM-D2504	CRQL	GC-TCD 1_110328A	R39564	3/29/2011 1:28:00 AM	1
lcs	751094	ASTM-D2504	LCS	GC-TCD 1_110328A	R39564	3/29/2011 2:02:00 AM	1
lcsd	751095	ASTM-D2504	LCSD	GC-TCD 1_110328A	R39564	3/29/2011 3:07:00 AM	1
1103609-001b	751097	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 3:58:00 AM	1
1103609-002b	751098	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 4:26:00 AM	1
1103609-003b	751099	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 4:58:00 AM	1
1103609-004b	751100	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 5:40:00 AM	1
1103609-005b	751101	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 6:01:00 AM	1
1103609-006b	751102	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 6:26:00 AM	1
1103609-006bdup	751103	ASTM-D2504	DUP	GC-TCD 1_110328A	R39564	3/29/2011 6:51:00 AM	1
1103609-007b	751104	ASTM-D2504	SAMP	GC-TCD 1_110328A	R39564	3/29/2011 7:35:00 AM	1
crql std 2% b	751105	ASTM-D2504	CRQL	GC-TCD 1_110328A	R39564	3/29/2011 8:23:00 AM	1
ccv std 1-2 b	751106	ASTM-D2504	CCV	GC-TCD 1_110328A	R39564	3/29/2011 8:43:00 AM	1

Method Blank Contamination Report

Blank ID: mb
SeqNo: 751129
Analysis Date: 3/31/2011 2:04:00 AM
Analyst: Mike Budziak

Batch ID: R39566
TestCode: ASTM-D2504
RunID: GC-TCD 1_110330A
InstrumentID: GC-TCD 1

No Contaminants Were Found in this Blank

The following Samples are associated with this blank:

Sample ID	SeqNo	TestCode	SampType	RunID	BatchID	AnalDate	DF
icb	751124	ASTM-D2504	ICB	GC-TCD 1_110330A	R39566	3/30/2011 11:11:00 PM	1
ccv std 1-2 a	751125	ASTM-D2504	CCV	GC-TCD 1_110330A	R39566	3/30/2011 11:41:00 PM	1
crql std 2% a	751126	ASTM-D2504	CRQL	GC-TCD 1_110330A	R39566	3/31/2011 12:01:00 AM	1
lcs	751127	ASTM-D2504	LCS	GC-TCD 1_110330A	R39566	3/31/2011 1:13:00 AM	1
lcsd	751128	ASTM-D2504	LCSD	GC-TCD 1_110330A	R39566	3/31/2011 1:36:00 AM	1
1103609-018b	751130	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 2:38:00 AM	1
1103609-019b	751131	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 2:59:00 AM	1
1103609-020b	751132	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 3:27:00 AM	1
1103609-021b	751133	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 3:50:00 AM	1
1103609-022b	751134	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 4:11:00 AM	1
1103609-023b	751135	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 4:46:00 AM	1
1103609-024b	751136	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 5:07:00 AM	1
1103609-025b	751137	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 5:27:00 AM	1
1103609-026b	751138	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 5:46:00 AM	1
1103609-027b	751139	ASTM-D2504	SAMP	GC-TCD 1_110330A	R39566	3/31/2011 6:05:00 AM	1
1103609-027bdup	751140	ASTM-D2504	DUP	GC-TCD 1_110330A	R39566	3/31/2011 6:29:00 AM	1
crql std 2% b	751141	ASTM-D2504	CRQL	GC-TCD 1_110330A	R39566	3/31/2011 8:07:00 AM	1
ccv std 1-2 b	751142	ASTM-D2504	CCV	GC-TCD 1_110330A	R39566	3/31/2011 8:53:00 AM	1

Injection Log

Directory: C:\HPCHEM\2\DATA\032811

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03281101.D	1.	icb	ICB ASTM-D2504	29 Mar 2011 00:36
2	1	03281102.D	1.	ccv std 1-2 a	CCV ASTM-D2504	29 Mar 2011 01:02
3	1	03281103.D	1.	crql std 2% a	CRQL ASTM-D2504	29 Mar 2011 01:28
4	1	03281104.D	1.	lcs	LCS ASTM-D2504	29 Mar 2011 02:02
5	1	03281105.D	1.	lcsd	LCSD ASTM-D2504	29 Mar 2011 03:07
6	1	03281106.D	1.	mb	MBLK ASTM-D2504	29 Mar 2011 03:37
7	1	03281107.D	1.	1103609-001b	SAMP ASTM-D2504	29 Mar 2011 03:58
8	1	03281108.D	1.	1103609-002b	SAMP ASTM-D2504	29 Mar 2011 04:26
9	1	03281109.D	1.	1103609-003b	SAMP ASTM-D2504	29 Mar 2011 04:58
10	1	03281110.D	1.	1103609-004b	SAMP ASTM-D2504	29 Mar 2011 05:40
11	1	03281111.D	1.	1103609-005b	SAMP ASTM-D2504	29 Mar 2011 06:01
12	1	03281112.D	1.	1103609-006b	SAMP ASTM-D2504	29 Mar 2011 06:26
13	1	03281113.D	1.	1103609-006bdup	DUP ASTM-D2504	29 Mar 2011 06:51
14	1	03281114.D	1.	1103609-007b	SAMP ASTM-D2504	29 Mar 2011 07:35
15	1	03281115.d	1.	crql std 2% b	CRQL ASTM-D2504	29 Mar 2011 08:23
16	1	03281116.d	1.	ccv std 1-2 b	CCV ASTM-D2504	29 Mar 2011 08:43

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281101.D Vial: 1
Acq On : 29 Mar 2011 12:36 am Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:28 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

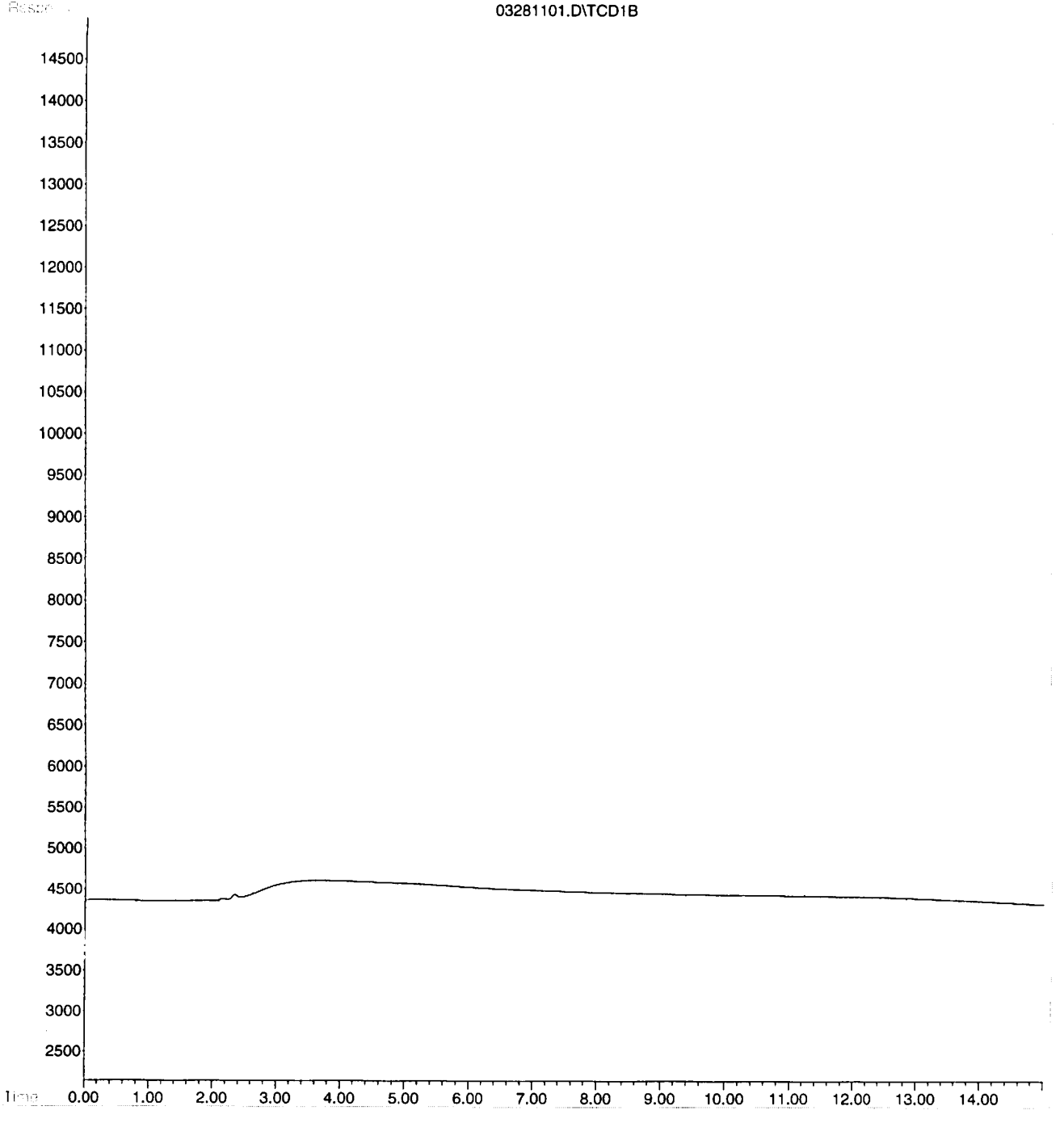
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281101.D Vial: 1
Acq On : 29 Mar 2011 12:36 am Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:28 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032811\03281102.D Vial: 1
Acq On : 29 Mar 2011 1:02 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.358	5.7	0	0.04
2	Nitrogen	2.500	2.628	-5.1	0	0.04
3	Carbon Monoxide	2.500	2.478	0.9	0	0.04
4	Methane	2.000	1.808	9.6	0	0.01
5	Carbon dioxide	2.500	2.402	3.9	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032811\03281102.D Vial: 1
Acq On : 29 Mar 2011 1:02 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:36:38 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281102.D Vial: 1
Acq On : 29 Mar 2011 1:02 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 29 1:23 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	368591	2.358 %
2)	Nitrogen	2.33	457299	2.628 %
3)	Carbon Monoxide	3.03	407448	2.478 %
4)	Methane	6.26	248965	1.808 %
5)	Carbon dioxide	11.23	491706	2.402 %

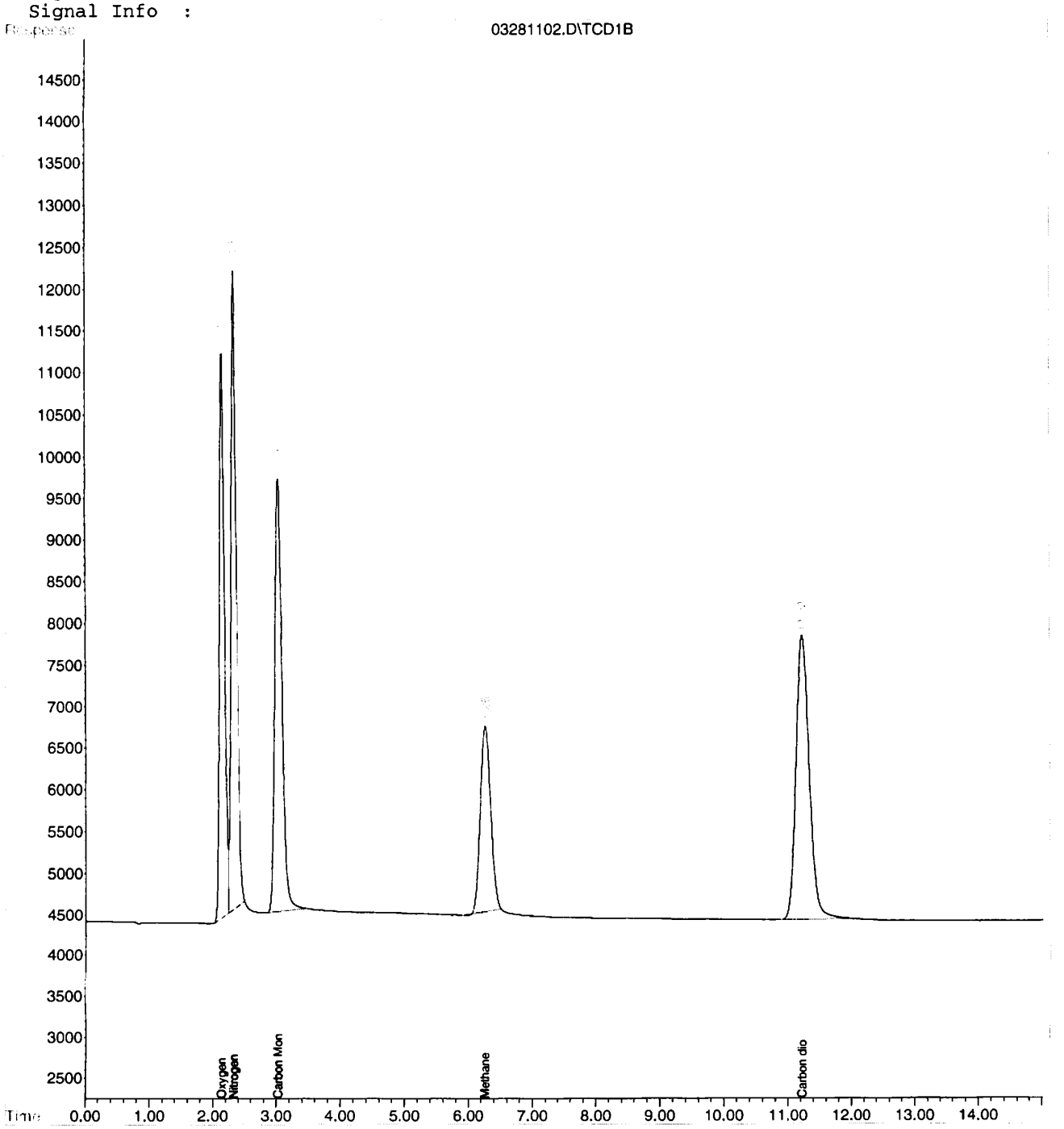
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281102.D Vial: 1
Acq On : 29 Mar 2011 1:02 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 29 1:23 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032811\03281103.D Vial: 1
Acq On : 29 Mar 2011 1:28 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.093	-16.2	121	0.04
2	Nitrogen	1.390	1.455	-4.7	127	0.04
3	Carbon Monoxide	0.140	0.149	-6.4	130	0.04
4	Methane	0.090	0.092	-2.2	126	0.02
5	Carbon dioxide	0.300	0.323	-7.7	113	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032811\03281103.D Vial: 1
Acq On : 29 Mar 2011 1:28 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:36:53 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281103.D Vial: 1
Acq On : 29 Mar 2011 1:28 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 29 1:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	14537	0.093 %
2)	Nitrogen	2.33	253118	1.455 %
3)	Carbon Monoxide	3.03	24446	0.149 %
4)	Methane	6.26	12624	0.092 %
5)	Carbon dioxide	11.23f	66201	0.323 %

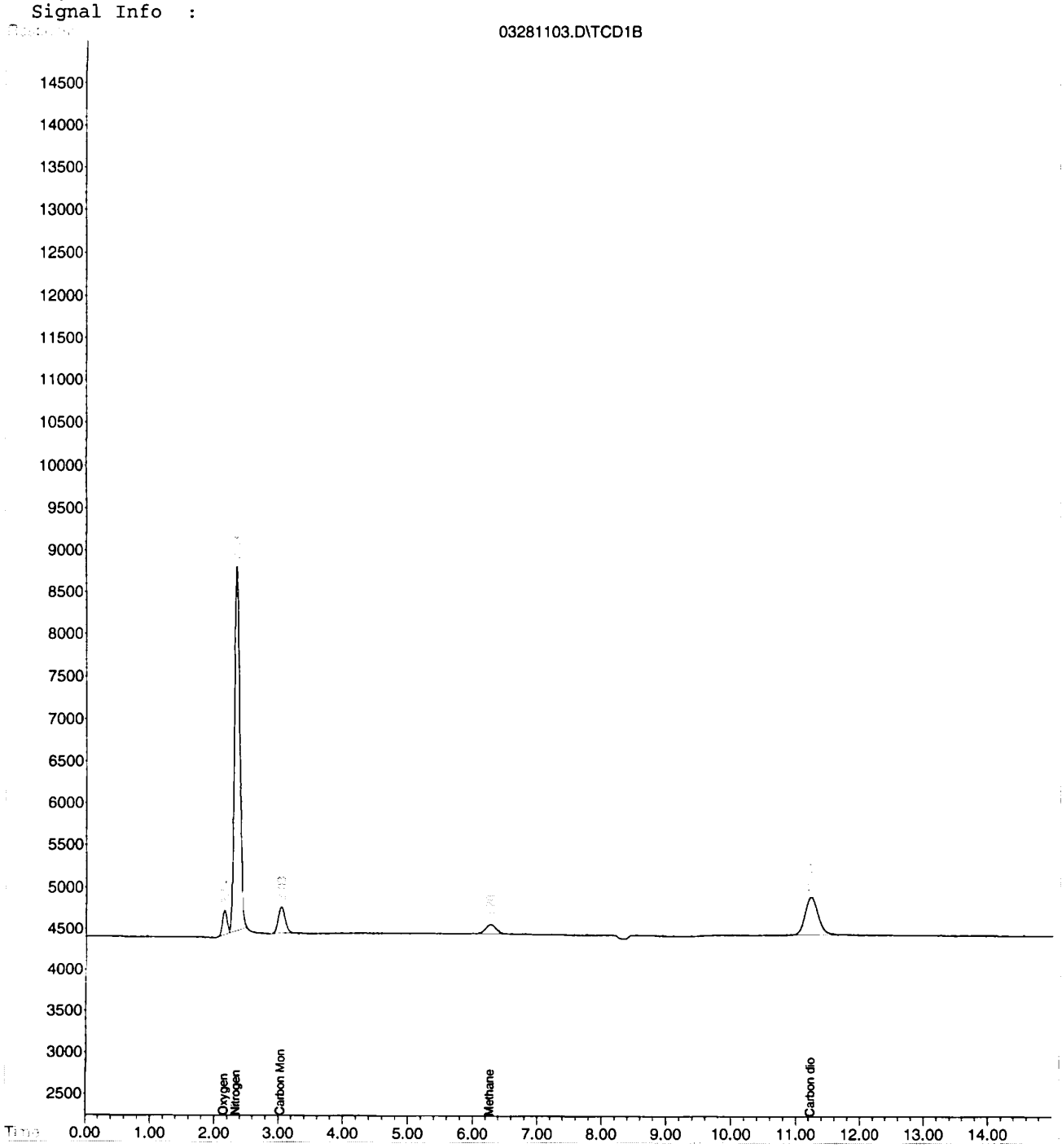
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281103.D Vial: 1
Acq On : 29 Mar 2011 1:28 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 29 1:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281104.D Vial: 1
Acq On : 29 Mar 2011 2:02 am Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:16 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

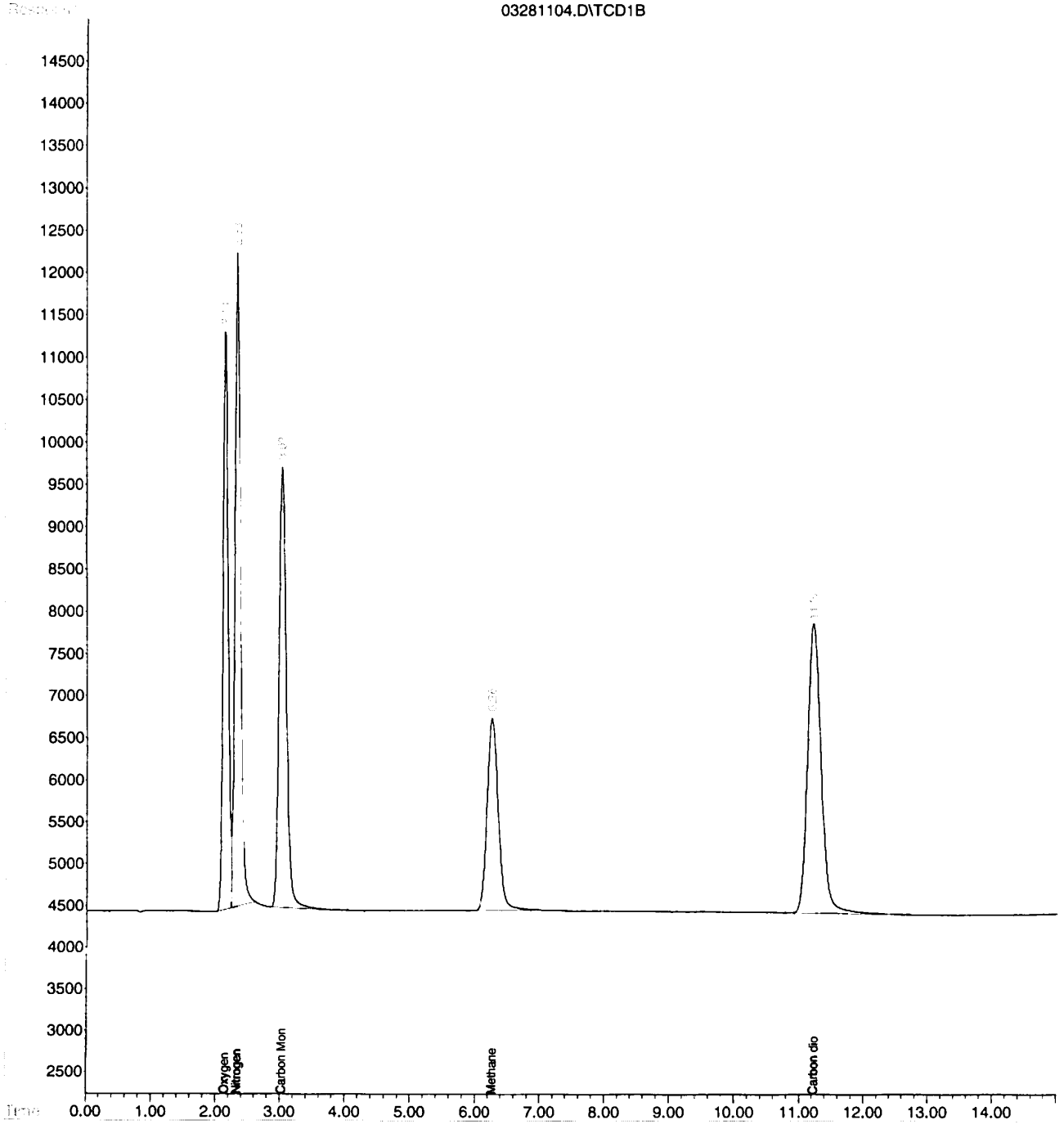
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	375708	2.404 %
2)	Nitrogen	2.33	478779	2.751 %
3)	Carbon Monoxide	3.02	411998	2.506 %
4)	Methane	6.26	273415	1.986 %
5)	Carbon dioxide	11.23	503272	2.459 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281104.D Vial: 1
Acq On : 29 Mar 2011 2:02 am Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:16 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281105.D Vial: 1
Acq On : 29 Mar 2011 3:07 am Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.14	403307	2.580 %
2)	Nitrogen	2.33	536773	3.085 %
3)	Carbon Monoxide	3.02	414707	2.522 %
4)	Methane	6.26	274946	1.997 %
5)	Carbon dioxide	11.23	497081	2.428 %

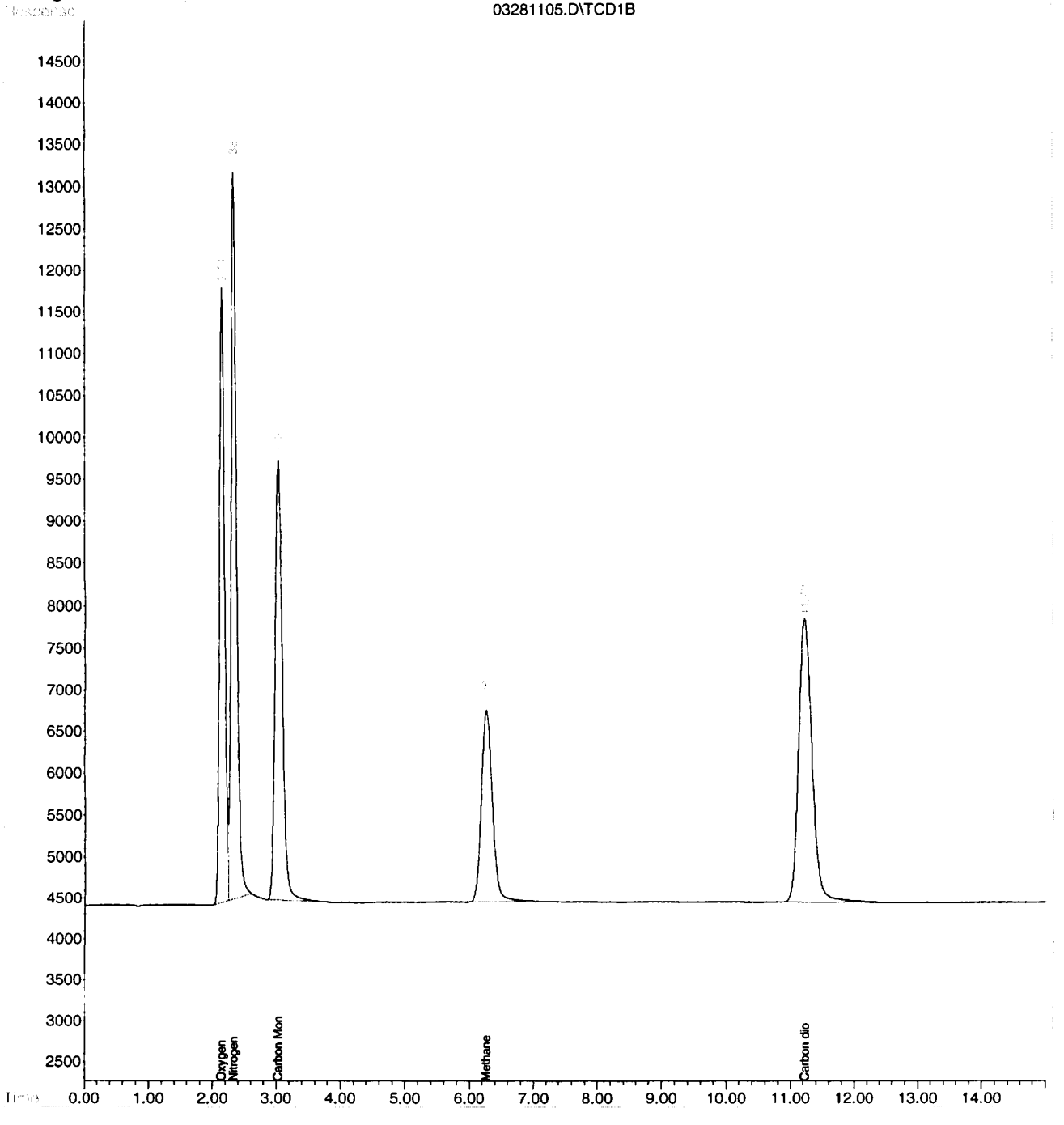
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281105.D Vial: 1
Acq On : 29 Mar 2011 3:07 am Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281106.D Vial: 1
Acq On : 29 Mar 2011 3:37 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

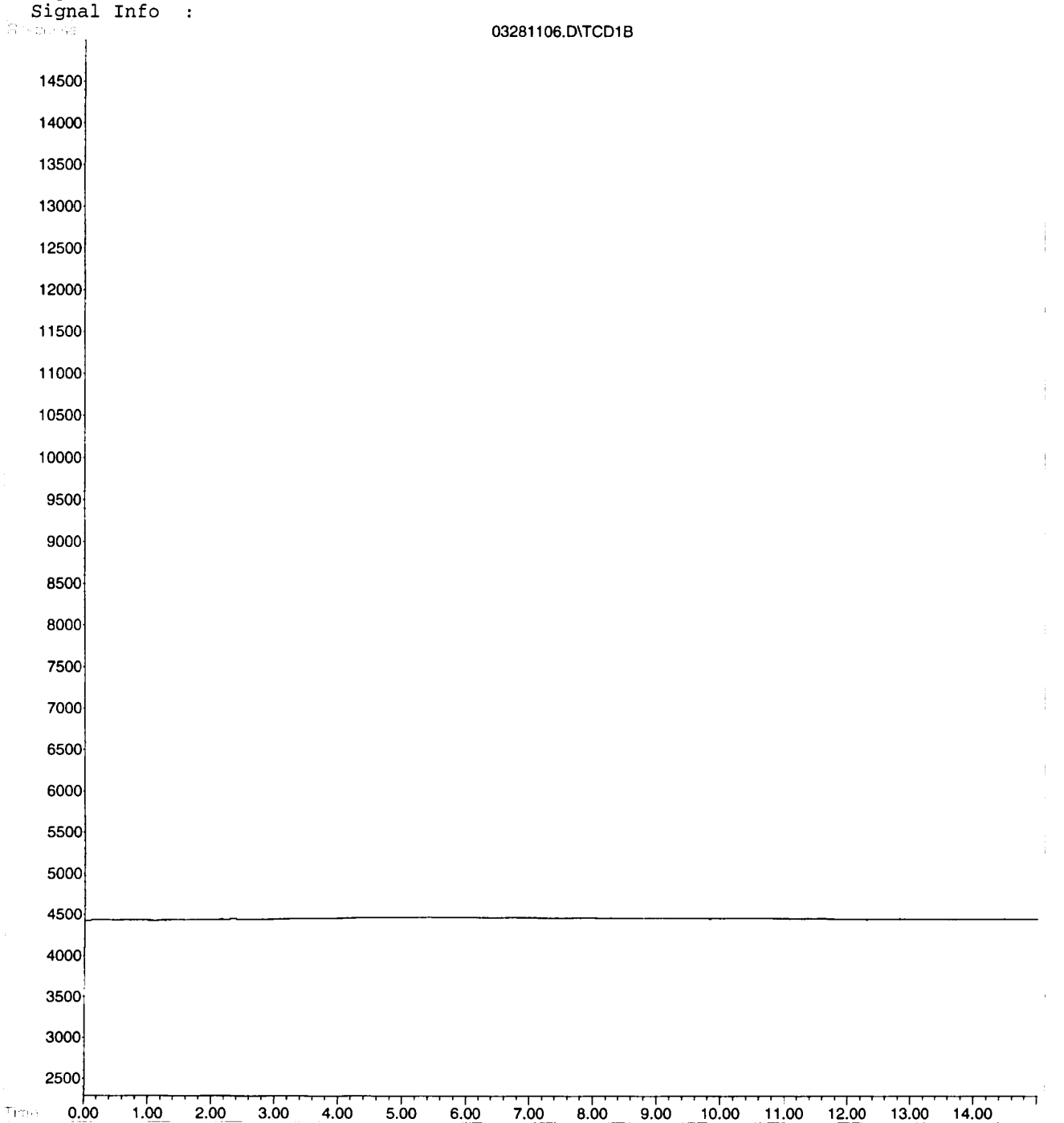
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281106.D Vial: 1
Acq On : 29 Mar 2011 3:37 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281107.D Vial: 1
Acq On : 29 Mar 2011 3:58 am Operator:
Sample : 1103609-001b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:18 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1529170	9.783	%
2)	Nitrogen	2.28	14357039	82.508	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	918498	4.487	%

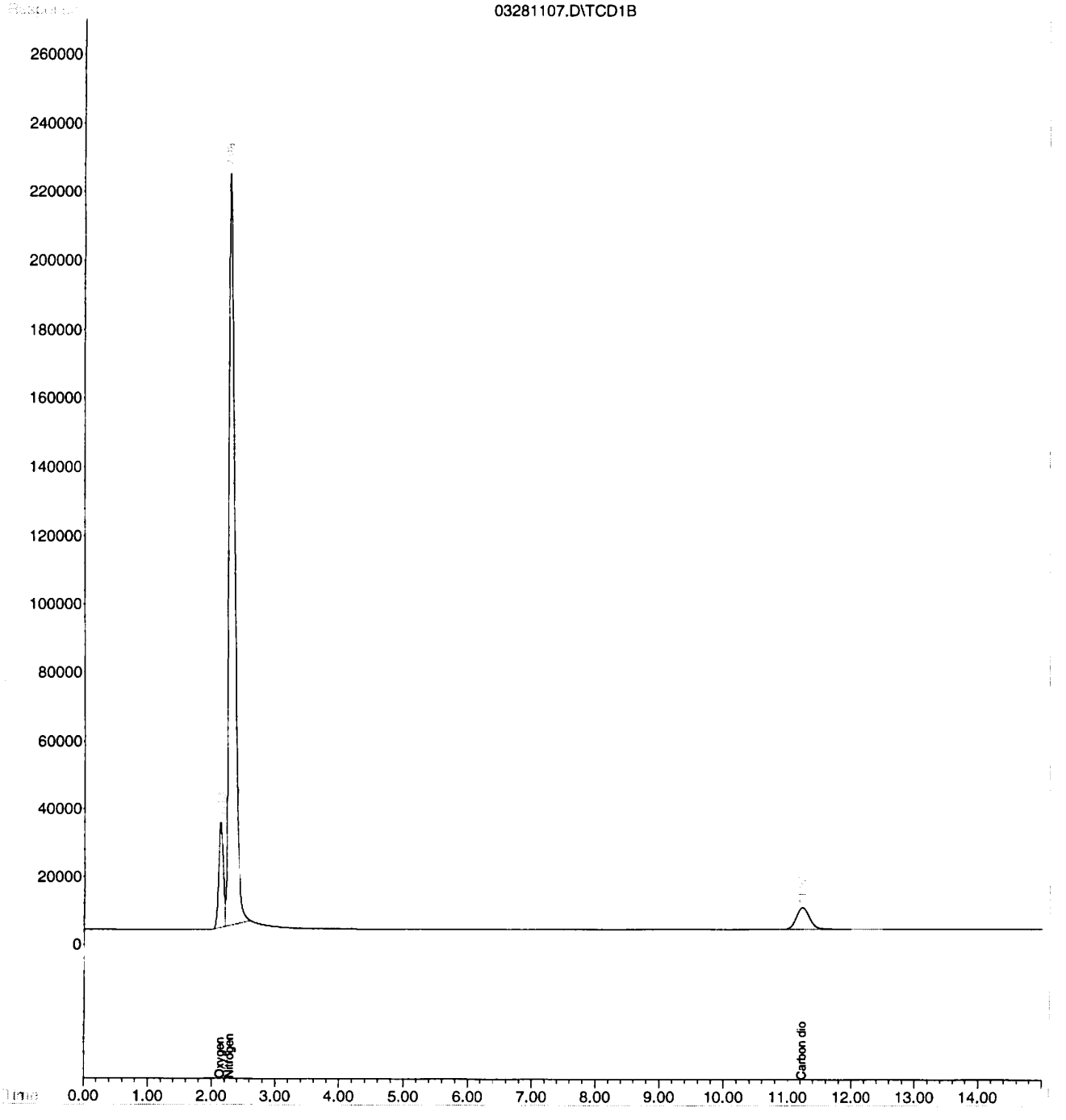
(f)=RT Delta > 1/2 Window (m)=manual int.
03281107.D 030511.M Sun Apr 17 14:37:28 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281107.D Vial: 1
Acq On : 29 Mar 2011 3:58 am Operator:
Sample : 1103609-001b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:18 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281108.D Vial: 1
Acq On : 29 Mar 2011 4:26 am Operator:
Sample : 1103609-002b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:19 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1831314	11.716	%
2)	Nitrogen	2.28	14077651	80.902	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1053536	5.147	%

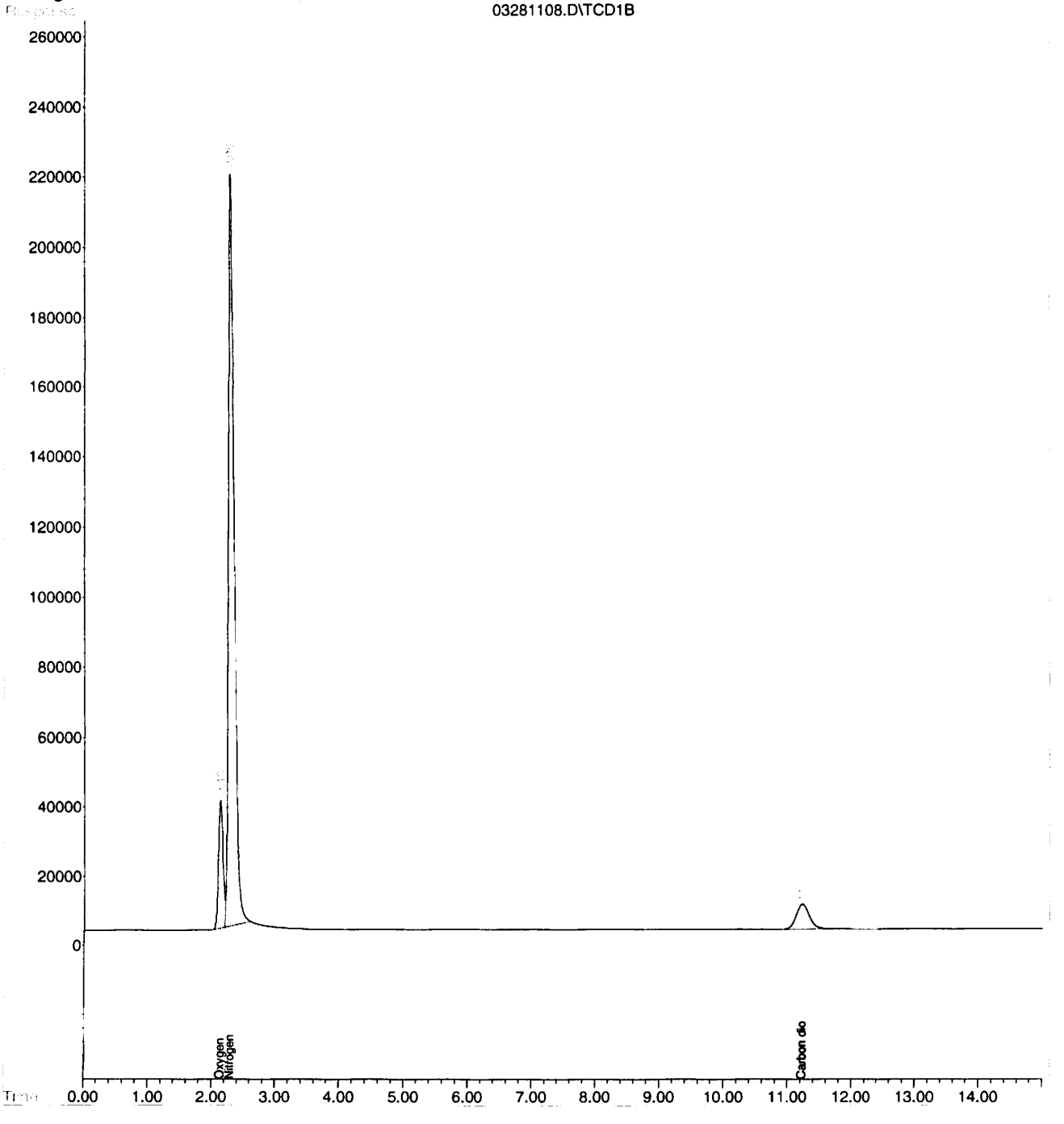
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281108.D Vial: 1
Acq On : 29 Mar 2011 4:26 am Operator:
Sample : 1103609-002b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:19 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281109.D Vial: 1
Acq On : 29 Mar 2011 4:58 am Operator:
Sample : 1103609-003b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:19 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

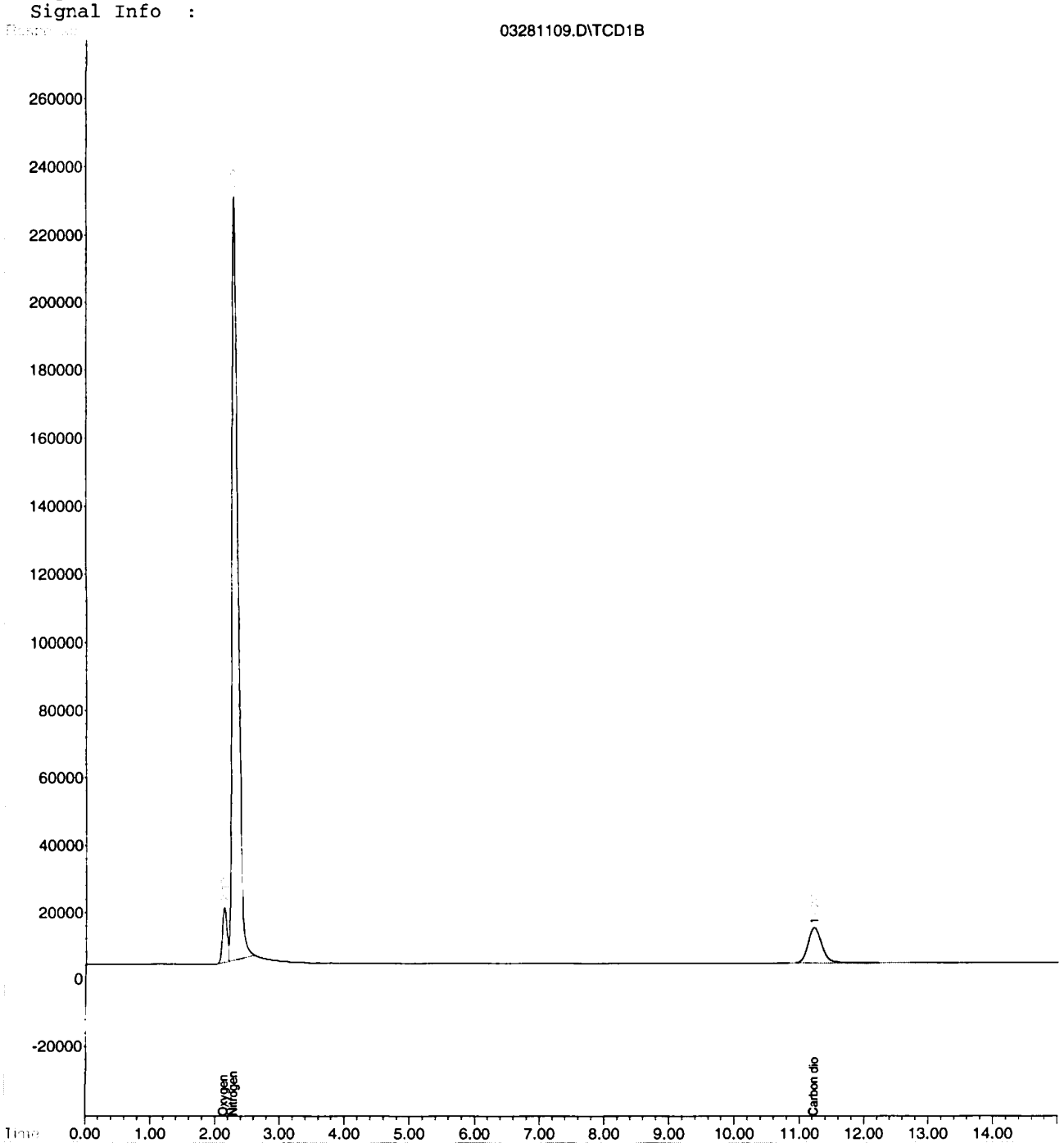
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	797651	5.103	%
2)	Nitrogen	2.28	14716872	84.576	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1565451	7.647	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281109.D Vial: 1
Acq On : 29 Mar 2011 4:58 am Operator:
Sample : 1103609-003b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:19 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281110.D Vial: 1
Acq On : 29 Mar 2011 5:40 am Operator:
Sample : 1103609-004b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:19 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2700061	17.273	%
2)	Nitrogen	2.28	13925776	80.029	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	178735	0.873	%

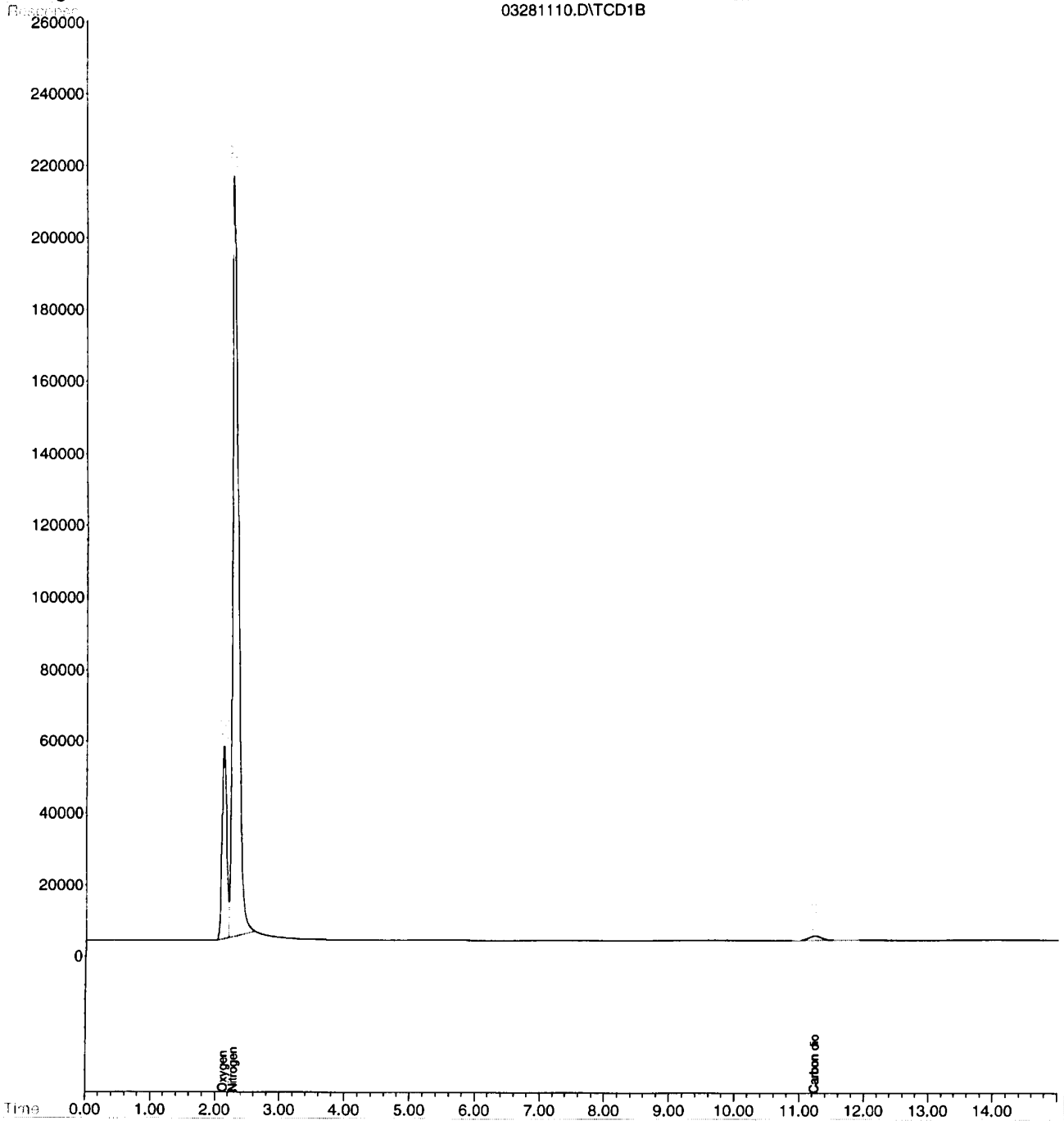
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281110.D Vial: 1
Acq On : 29 Mar 2011 5:40 am Operator:
Sample : 1103609-004b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:19 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281111.D Vial: 1
Acq On : 29 Mar 2011 6:01 am Operator:
Sample : 1103609-005b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.12	2971756	19.012 %
2)	Nitrogen	2.28	13473869	77.432 %
3)	Carbon Monoxide	0.00	0	N.D. %
4)	Methane	0.00	0	N.D. %
5)	Carbon dioxide	11.24f	101547	0.496 %

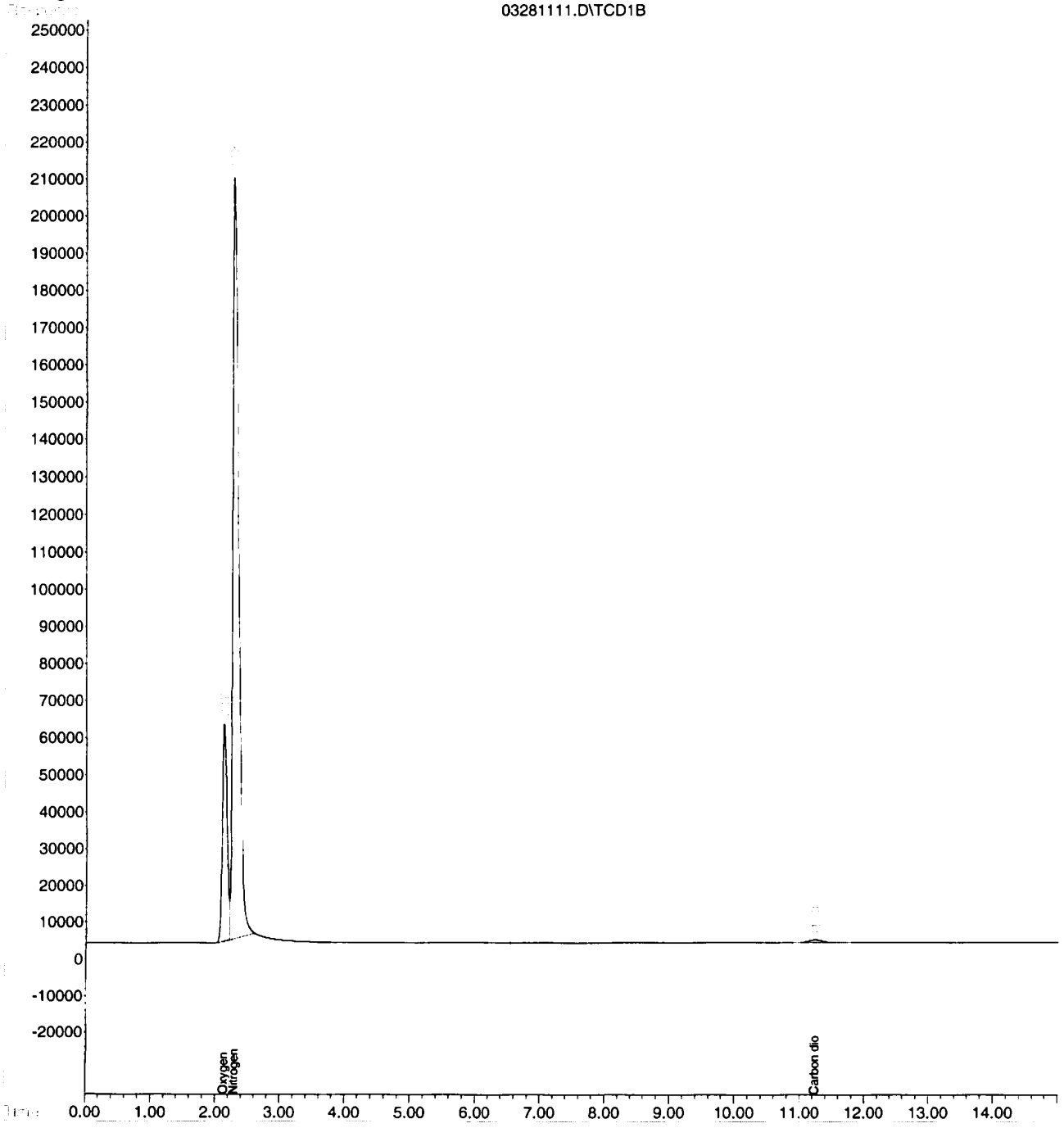
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281111.D Vial: 1
Acq On : 29 Mar 2011 6:01 am Operator:
Sample : 1103609-005b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281112.D Vial: 1
Acq On : 29 Mar 2011 6:26 am Operator:
Sample : 1103609-006b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	2.13	2736897	17.509	%
2)	Nitrogen	2.28	13610514	78.218	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	391488	1.912	%

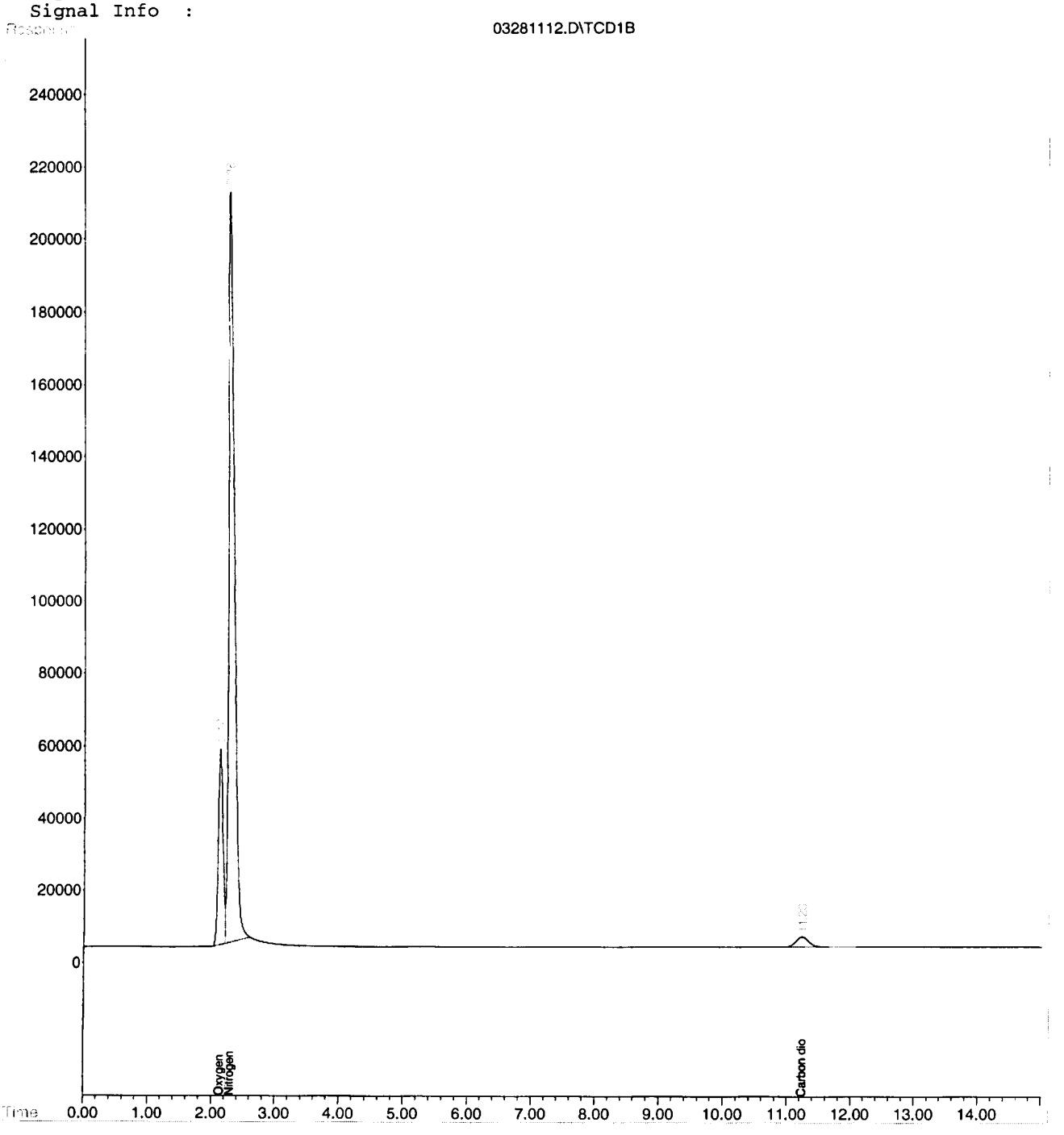
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281112.D Vial: 1
Acq On : 29 Mar 2011 6:26 am Operator:
Sample : 1103609-006b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281113.D Vial: 1
Acq On : 29 Mar 2011 6:51 am Operator:
Sample : 1103609-006bdup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2737421	17.512	%
2)	Nitrogen	2.28	13616028	78.249	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	393634	1.923	%

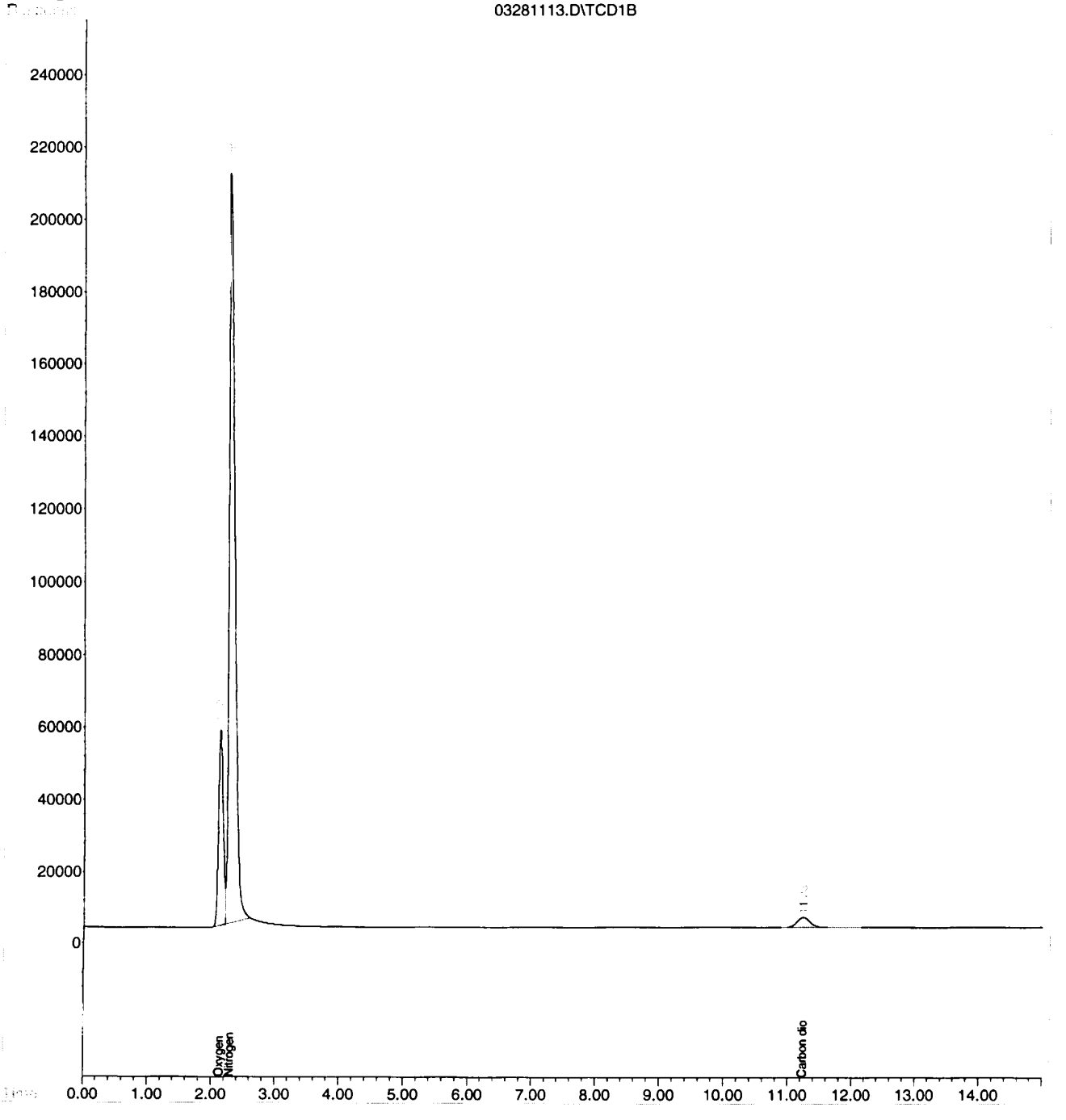
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281113.D Vial: 1
Acq On : 29 Mar 2011 6:51 am Operator:
Sample : 1103609-006bdup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281114.D Vial: 1
Acq On : 29 Mar 2011 7:35 am Operator:
Sample : 1103609-007b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:21 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

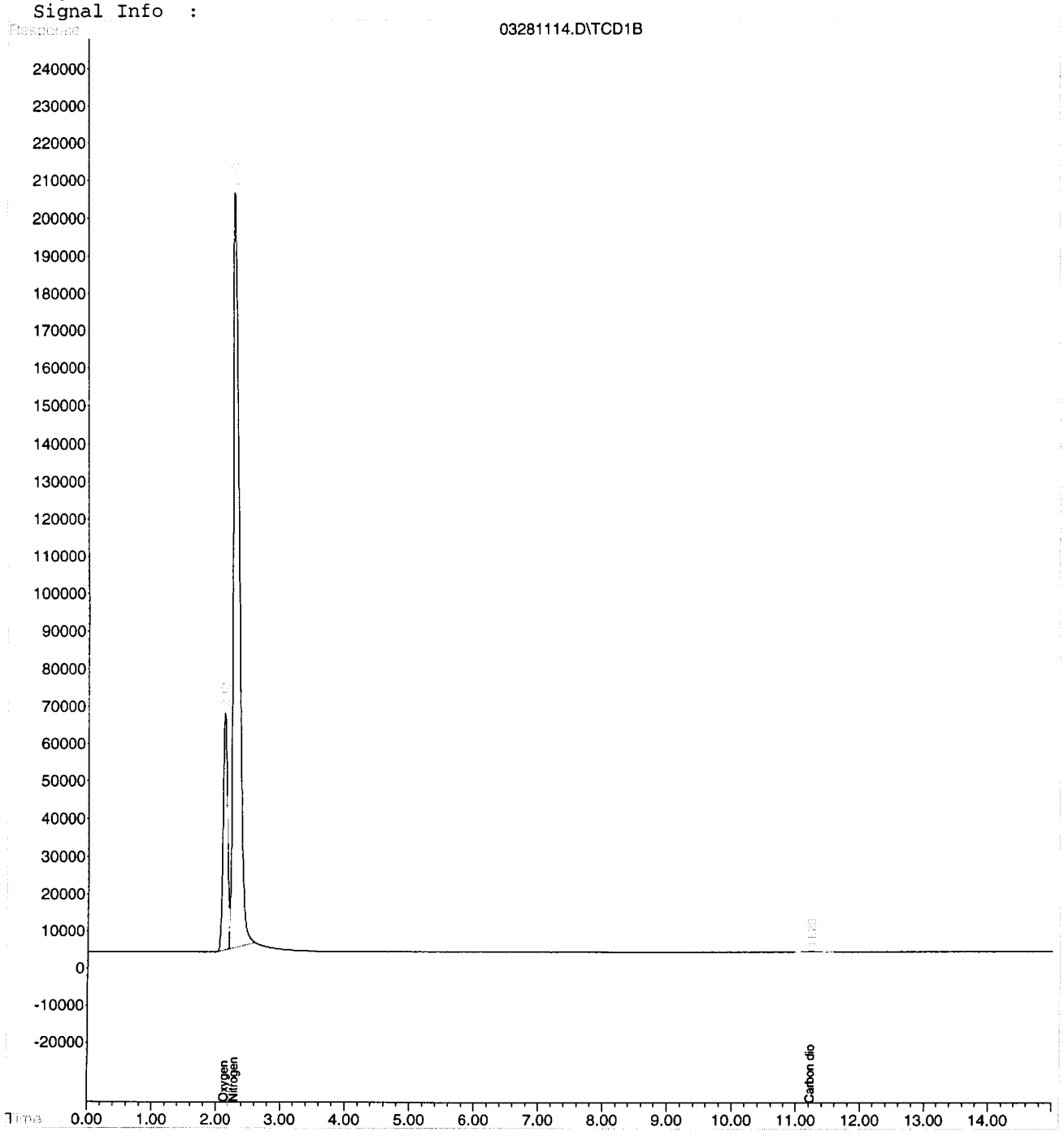
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3214307	20.563	%
2)	Nitrogen	2.28	13202632	75.874	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	9196	0.045	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281114.D Vial: 1
Acq On : 29 Mar 2011 7:35 am Operator:
Sample : 1103609-007b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:21 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032811\03281115.D Vial: 1
Acq On : 29 Mar 2011 8:23 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.094	-17.5	122	0.05
2	Nitrogen	1.390	1.571	-13.0	137	0.04
3	Carbon Monoxide	0.140	0.165	-17.9	144	0.04
4	Methane	0.090	0.100	-11.1	138	0.02
5	Carbon dioxide	0.300	0.339	-13.0	119	0.06

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032811\03281115.D Vial: 1
Acq On : 29 Mar 2011 8:23 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:38:10 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281115.D Vial: 1
Acq On : 29 Mar 2011 8:23 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 29 8:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.15	14709	0.094 %
2)	Nitrogen	2.33	273428	1.571 %
3)	Carbon Monoxide	3.03	27055	0.165 %
4)	Methane	6.27	13781	0.100 %
5)	Carbon dioxide	11.23f	69436	0.339 %

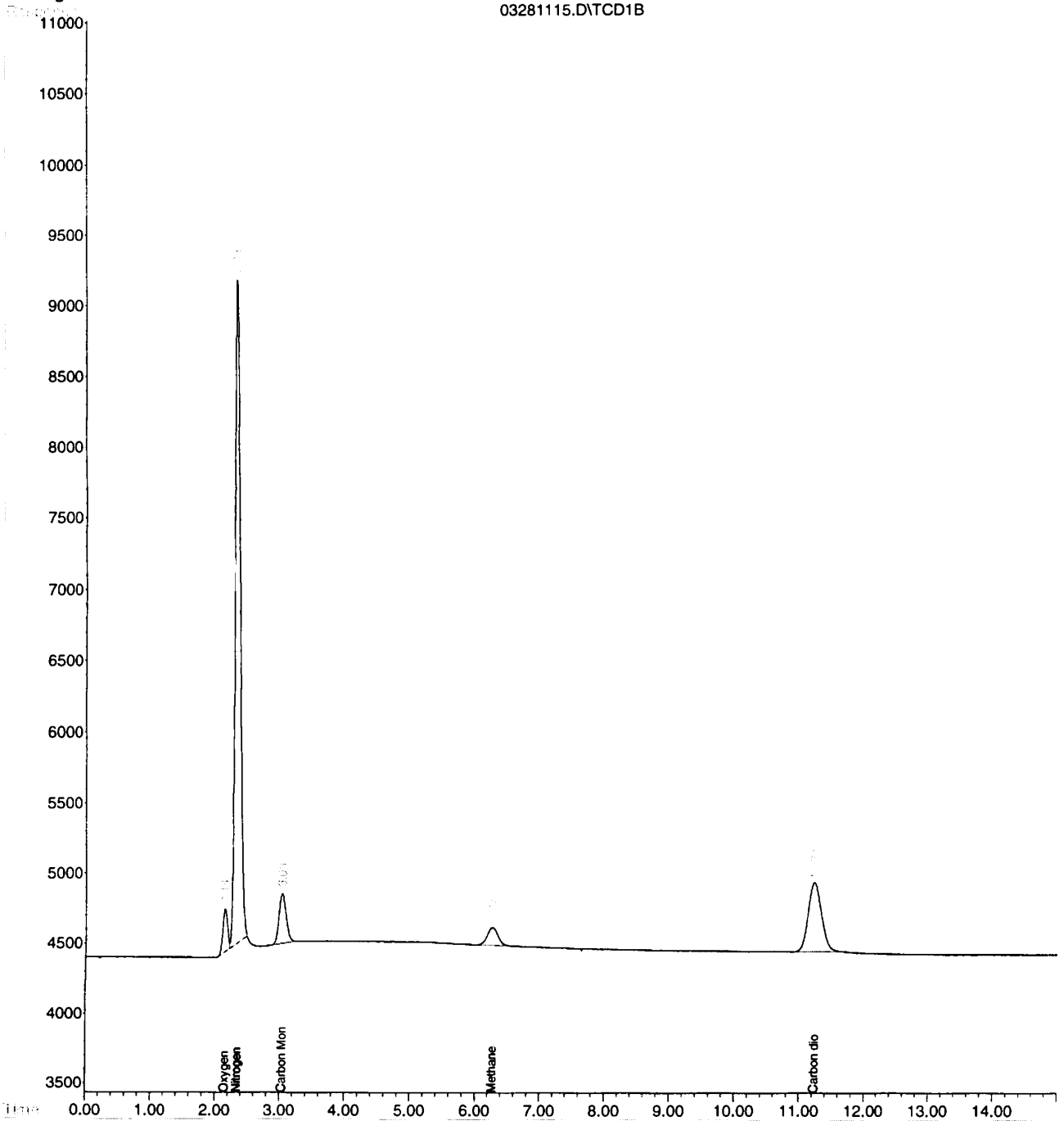
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281115.D Vial: 1
Acq On : 29 Mar 2011 8:23 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 29 8:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 12 05:03:19 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032811\03281116.D Vial: 1
Acq On : 29 Mar 2011 8:43 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.398	4.1	0	0.04
2	Nitrogen	2.500	2.744	-9.8	0	0.04
3	Carbon Monoxide	2.500	2.569	-2.8	0	0.04
4	Methane	2.000	1.983	0.8	0	0.02
5	Carbon dioxide	2.500	2.442	2.3	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032811\03281116.D Vial: 1
Acq On : 29 Mar 2011 8:43 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:38:22 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032811\03281116.D Vial: 1
Acq On : 29 Mar 2011 8:43 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:23 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	374896	2.398 %
2)	Nitrogen	2.33	477510	2.744 %
3)	Carbon Monoxide	3.03	422358	2.569 %
4)	Methane	6.27	273009	1.983 %
5)	Carbon dioxide	11.23f	499782	2.442 %

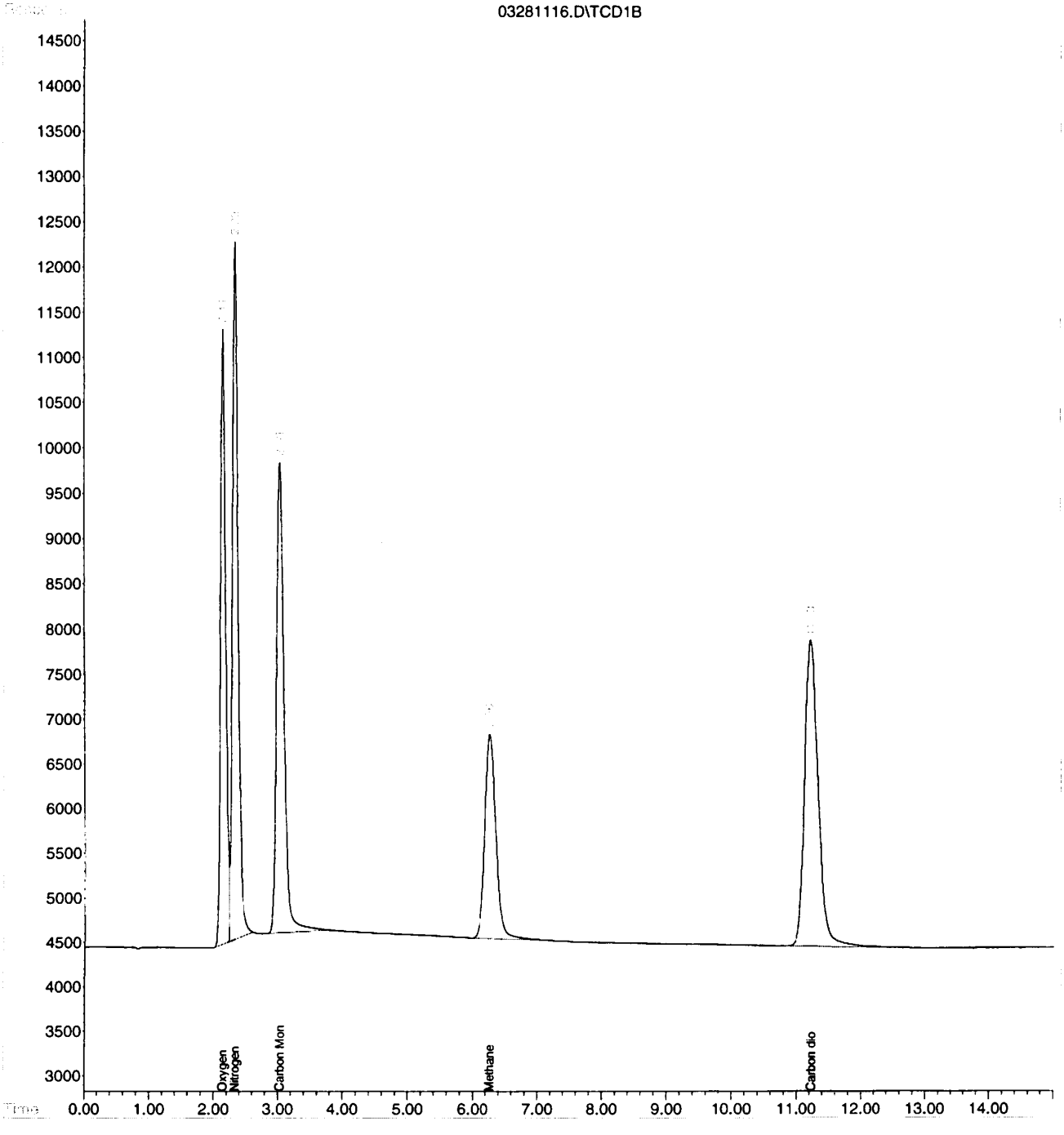
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032811\03281116.D Vial: 1
Acq On : 29 Mar 2011 8:43 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:23 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\032911

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03291101.D	1.	icb	ICB ASTM-D2504	29 Mar 2011 23:48
2	1	03291102.D	1.	ccv std 1-2 a	CCV ASTM-D2504	30 Mar 2011 00:09
3	1	03291103.D	1.	crql std 2% a	CRQL ASTM-D2504	30 Mar 2011 00:33
4	1	03291104.D	1.	1103609-008b	SAMP ASTM-D2504	30 Mar 2011 01:10
5	1	03291105.D	1.	1103609-009b	SAMP ASTM-D2504	30 Mar 2011 01:30
6	1	03291106.D	1.	1103609-010b	SAMP ASTM-D2504	30 Mar 2011 02:30
7	1	03291107.D	1.	1103609-011b	SAMP ASTM-D2504	30 Mar 2011 03:04
8	1	03291108.D	1.	1103609-012b	SAMP ASTM-D2504	30 Mar 2011 03:32
9	1	03291109.D	1.	1103609-013b	SAMP ASTM-D2504	30 Mar 2011 04:02
10	1	03291110.D	1.	1103609-014b	SAMP ASTM-D2504	30 Mar 2011 04:30
11	1	03291111.D	1.	1103609-015b	SAMP ASTM-D2504	30 Mar 2011 05:11
12	1	03291112.D	1.	1103609-016b	SAMP ASTM-D2504	30 Mar 2011 06:07
13	1	03291113.D	1.	1103609-017b	SAMP ASTM-D2504	30 Mar 2011 06:30
14	1	03291114.D	1.	1103609-017bdup	DUP ASTM-D2504	30 Mar 2011 07:06
15	1	03291115.D	1.	ccb	CCB ASTM-D2504	30 Mar 2011 07:27
16	1	03291116.d	1.	crql std 2% b	CRQL ASTM-D2504	30 Mar 2011 09:07
17	1	03291117.d	1.	ccv std 1-2 b	CCV ASTM-D2504	30 Mar 2011 09:42

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291101.D Vial: 1
Acq On : 29 Mar 2011 11:48 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:25 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

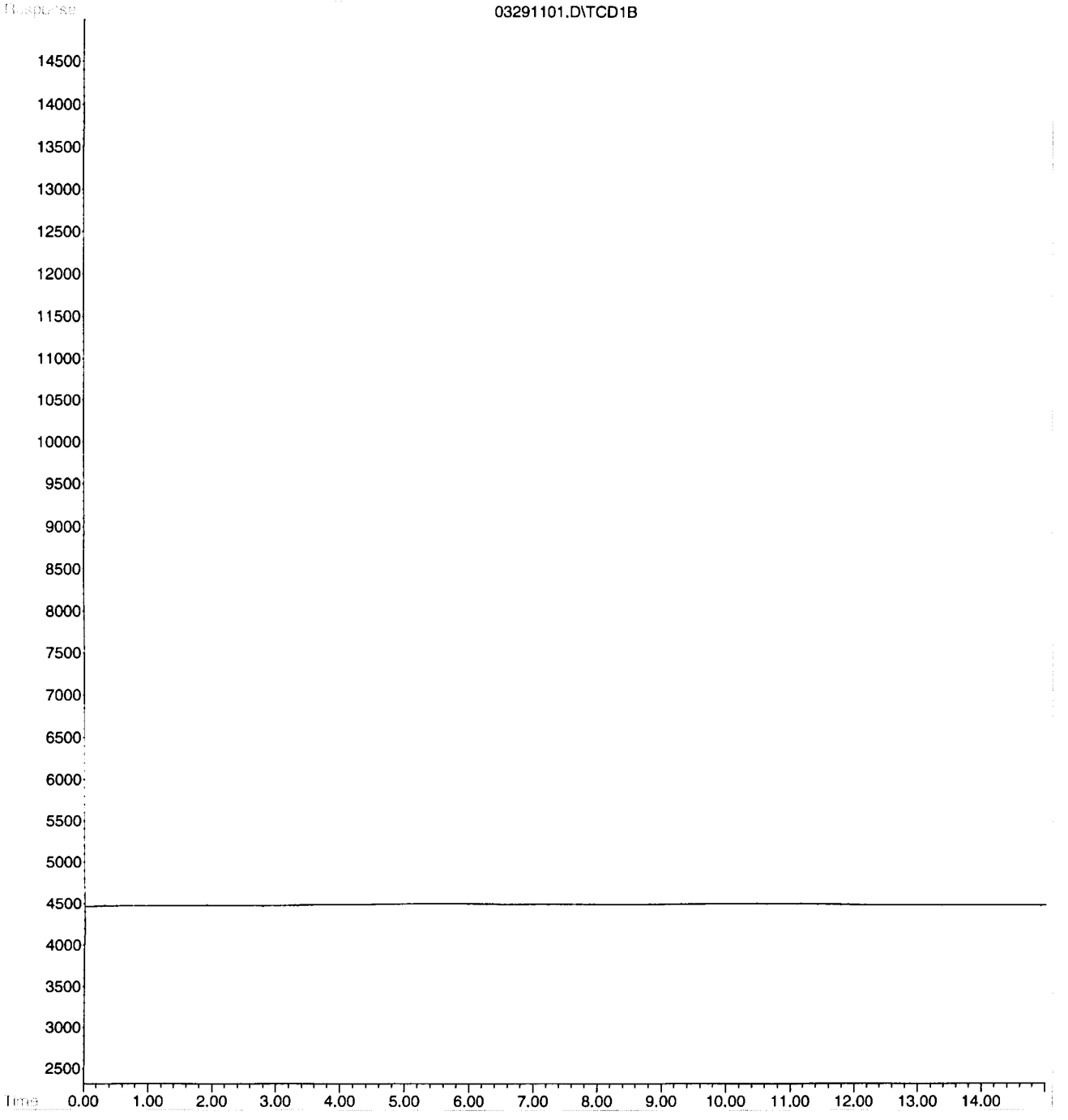
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291101.D Vial: 1
Acq On : 29 Mar 2011 11:48 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:25 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032911\03291102.D Vial: 1
Acq On : 30 Mar 2011 12:09 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.407	3.7	0	0.05
2	Nitrogen	2.500	2.763	-10.5	0	0.05
3	Carbon Monoxide	2.500	2.427	2.9	0	0.04
4	Methane	2.000	1.894	5.3	0	0.02
5	Carbon dioxide	2.500	2.310	7.6	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032911\03291102.D Vial: 1
Acq On : 30 Mar 2011 12:09 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:38:50 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291102.D Vial: 1
Acq On : 30 Mar 2011 12:09 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:28 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.15	376168	2.407 %
2)	Nitrogen	2.34	480720	2.763 %
3)	Carbon Monoxide	3.03	399051	2.427 %
4)	Methane	6.27	260841	1.894 %
5)	Carbon dioxide	11.23f	472876	2.310 %

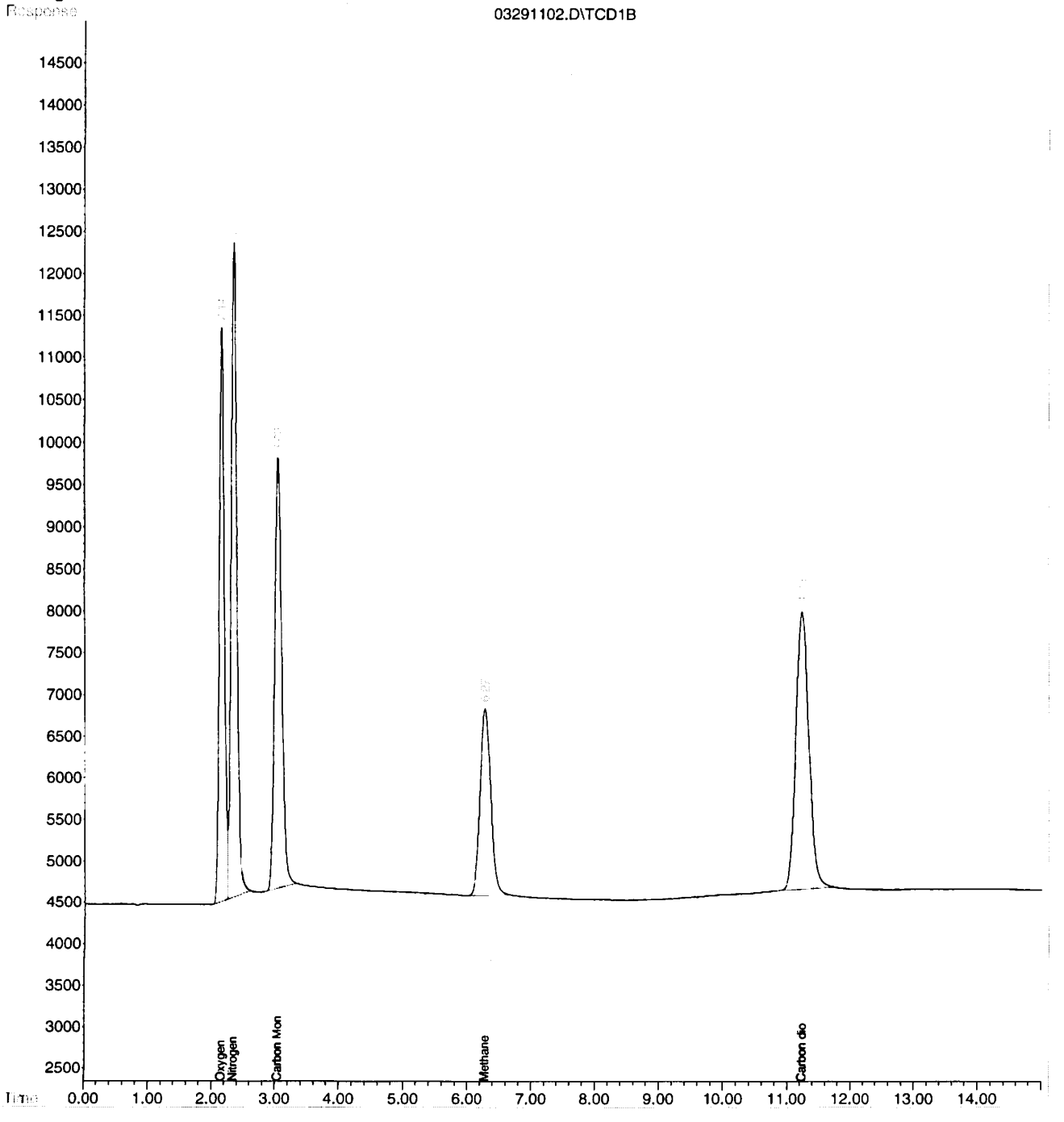
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291102.D Vial: 1
Acq On : 30 Mar 2011 12:09 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:28 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032911\03291103.D Vial: 1
Acq On : 30 Mar 2011 12:33 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.074	7.5	96	0.05
2	Nitrogen	1.390	1.460	-5.0	127	0.05
3	Carbon Monoxide	0.140	0.153	-9.3	133	0.04
4	Methane	0.090	0.096	-6.7	132	0.02
5	Carbon dioxide	0.300	0.311	-3.7	109	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032911\03291103.D Vial: 1
Acq On : 30 Mar 2011 12:33 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:39:07 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291103.D Vial: 1
Acq On : 30 Mar 2011 12:33 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 10:28 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.15	11523	0.074 %
2)	Nitrogen	2.34	254090	1.460 %
3)	Carbon Monoxide	3.03	25144	0.153 %
4)	Methane	6.27	13200	0.096 %
5)	Carbon dioxide	11.23f	63728	0.311 %

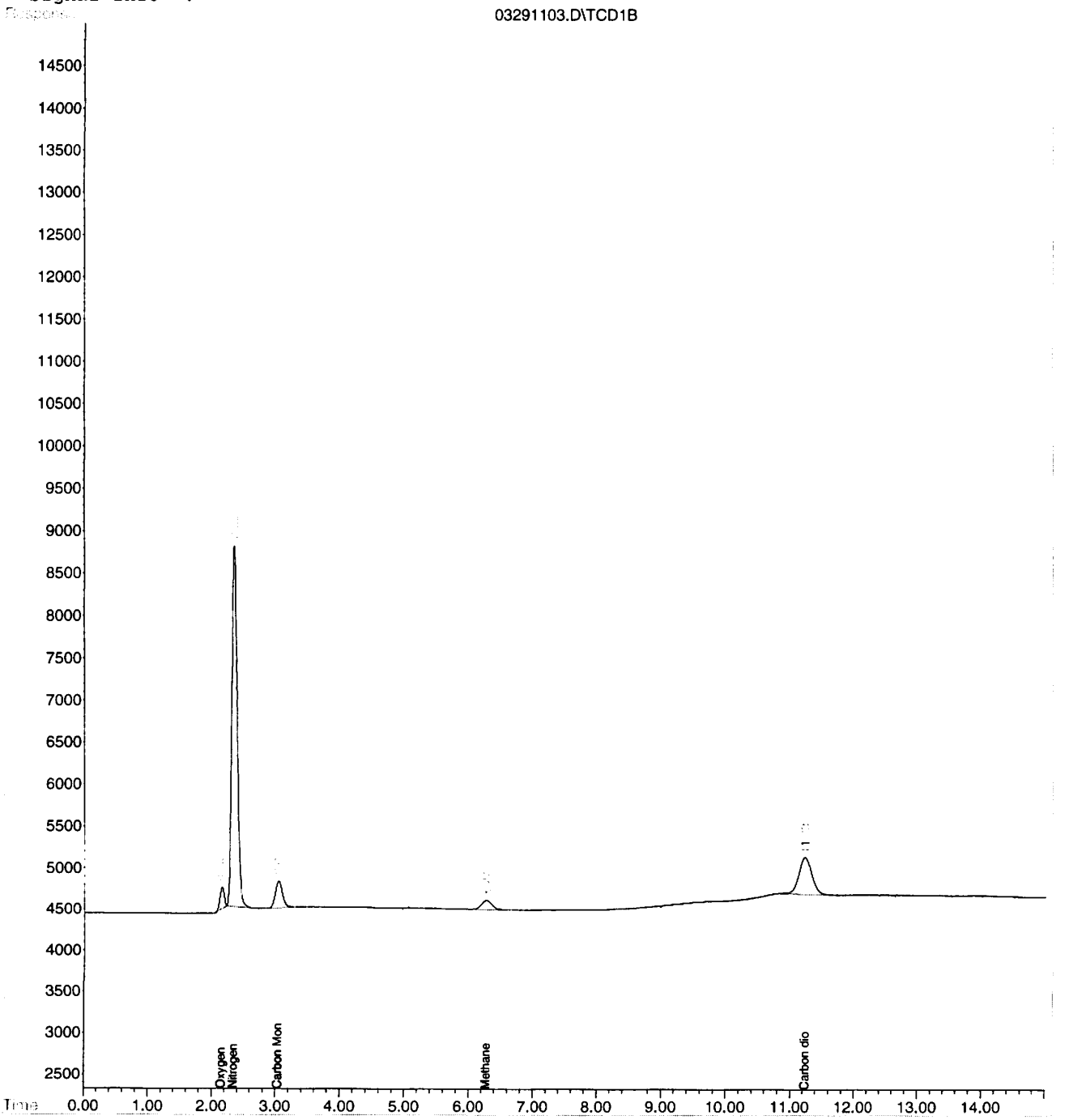
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291103.D Vial: 1
Acq On : 30 Mar 2011 12:33 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 10:28 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291104.D Vial: 1
Acq On : 30 Mar 2011 1:10 am Operator:
Sample : 1103609-008b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2063315	13.200	%
2)	Nitrogen	2.28	14510707	83.391	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	240371	1.174	%

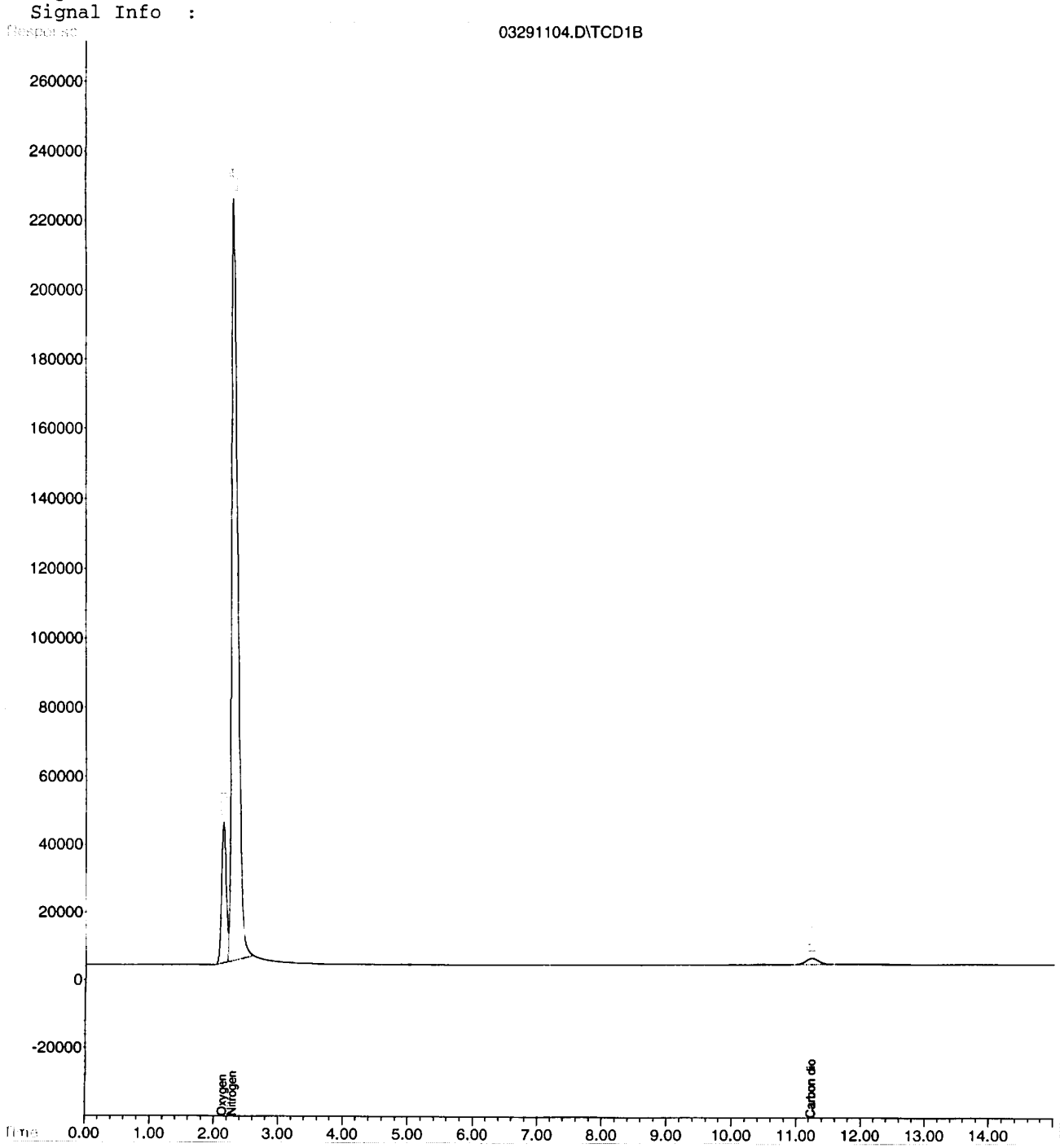
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291104.D Vial: 1
Acq On : 30 Mar 2011 1:10 am Operator:
Sample : 1103609-008b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291105.D Vial: 1
Acq On : 30 Mar 2011 1:30 am Operator:
Sample : 1103609-009b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2462199	15.752	%
2)	Nitrogen	2.28	14011660	80.523	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	150265	0.734	%

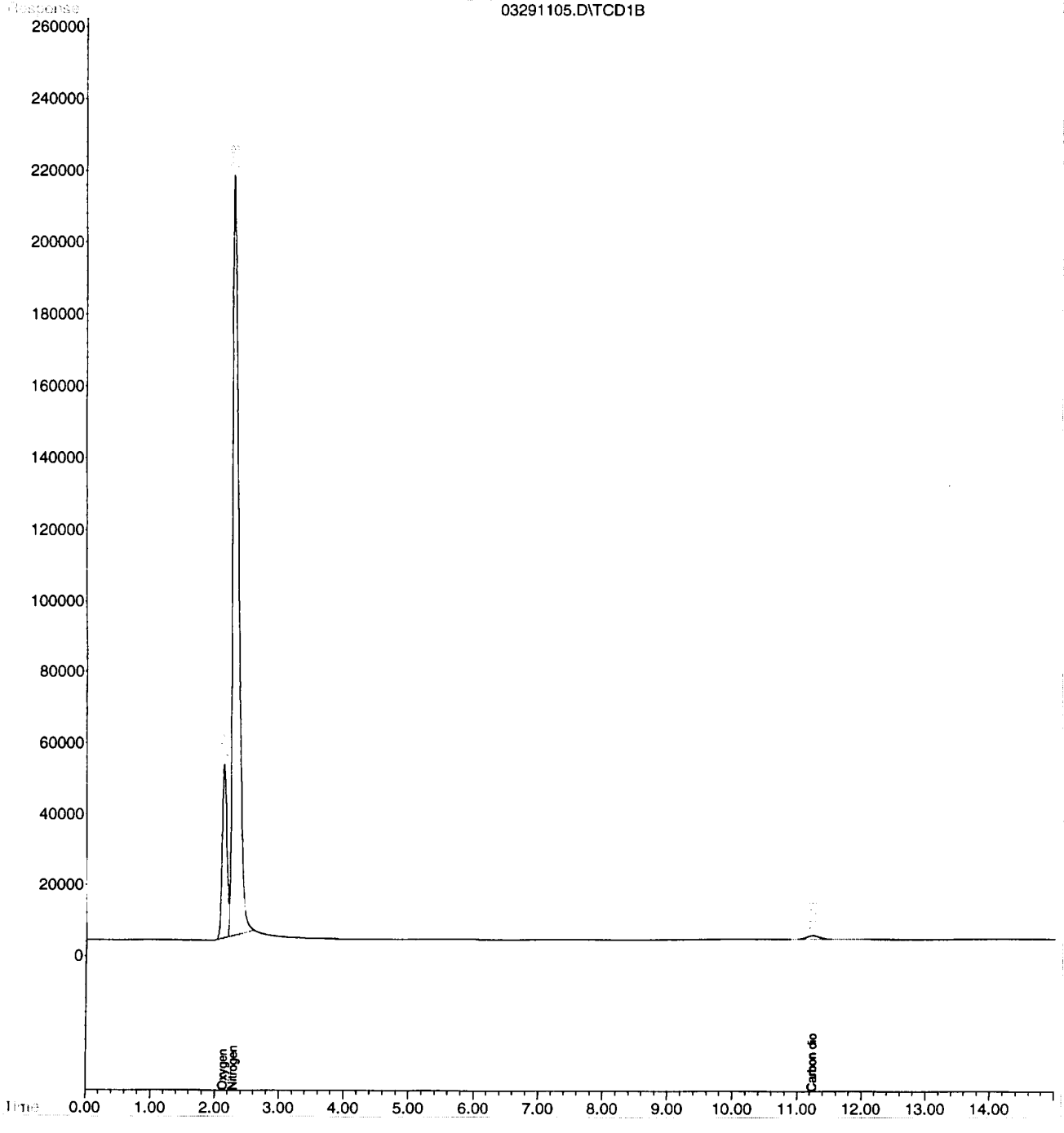
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291105.D Vial: 1
Acq On : 30 Mar 2011 1:30 am Operator:
Sample : 1103609-009b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291106.D Vial: 1
Acq On : 30 Mar 2011 2:30 am Operator:
Sample : 1103609-010b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

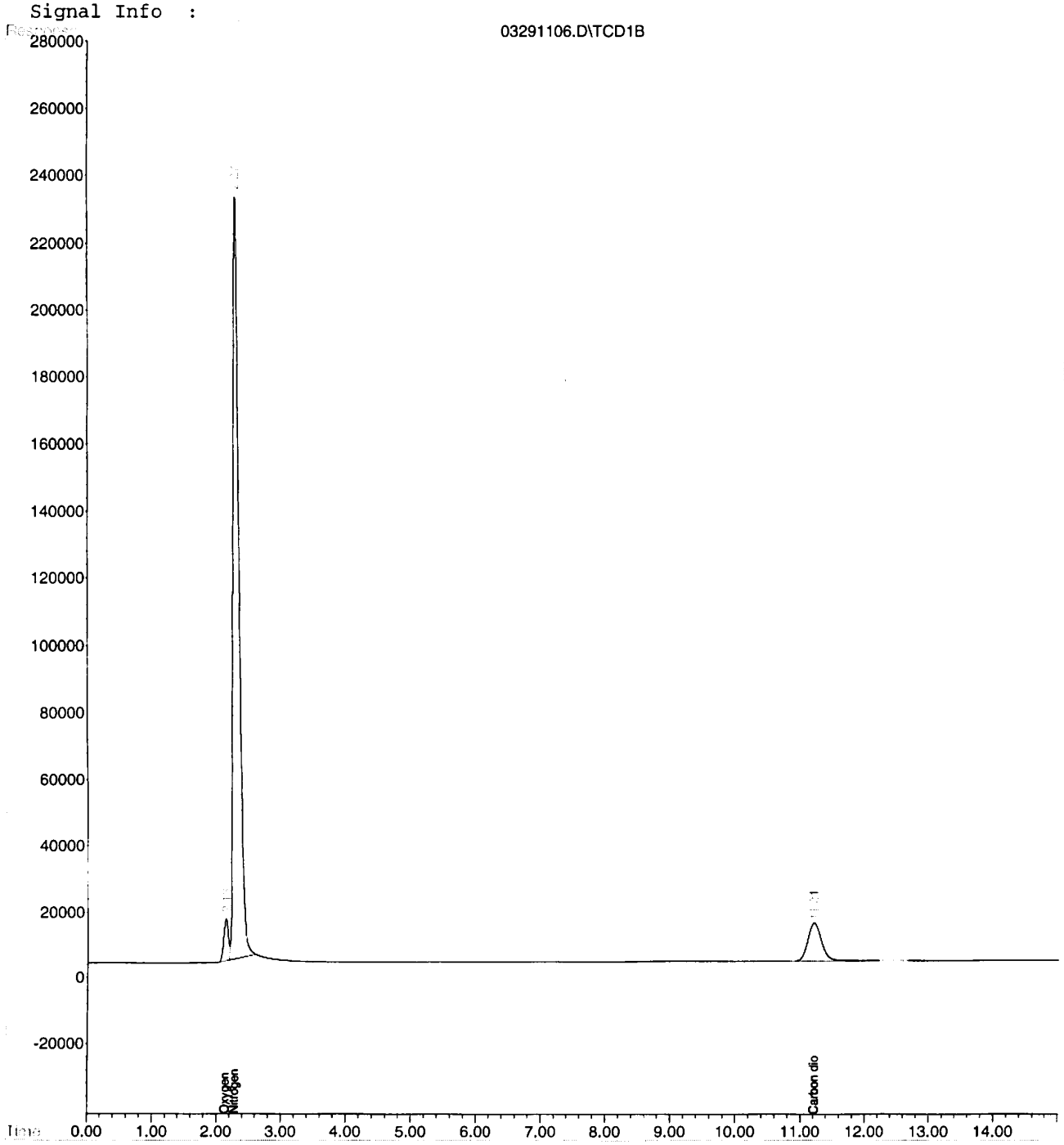
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	622299	3.981	%
2)	Nitrogen	2.28	14877439	85.498	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1726476	8.434	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291106.D Vial: 1
Acq On : 30 Mar 2011 2:30 am Operator:
Sample : 1103609-010b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:33 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291107.D Vial: 1
Acq On : 30 Mar 2011 3:04 am Operator:
Sample : 1103609-011b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:36 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	1128228	7.218	%
2)	Nitrogen	2.28	14402076	82.767	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1627797	7.952	%

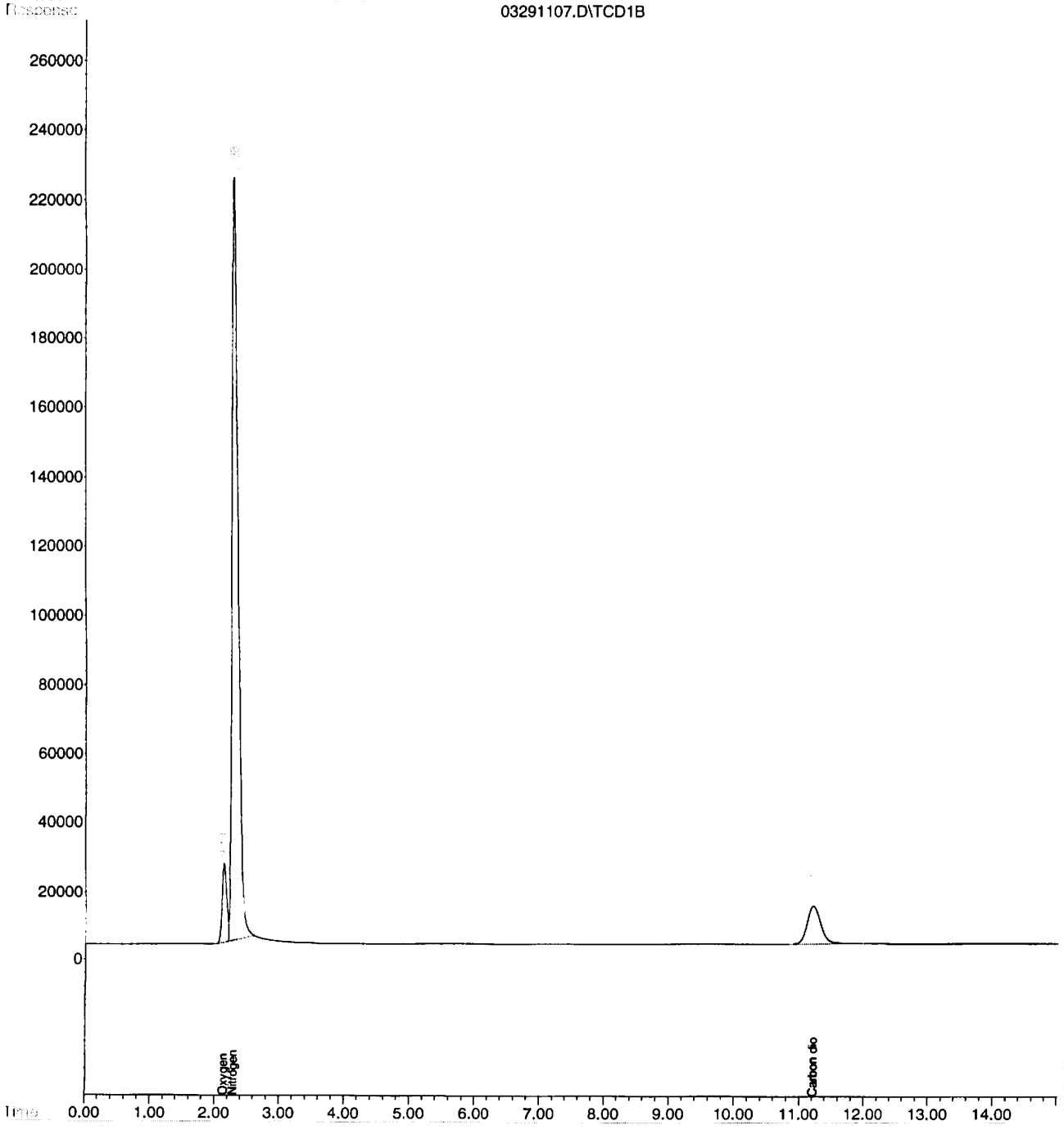
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291107.D Vial: 1
Acq On : 30 Mar 2011 3:04 am Operator:
Sample : 1103609-011b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:36 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291108.D Vial: 1
Acq On : 30 Mar 2011 3:32 am Operator:
Sample : 1103609-012b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3134686	20.054	%
2)	Nitrogen	2.29	13595402	78.131	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	104478	0.510	%

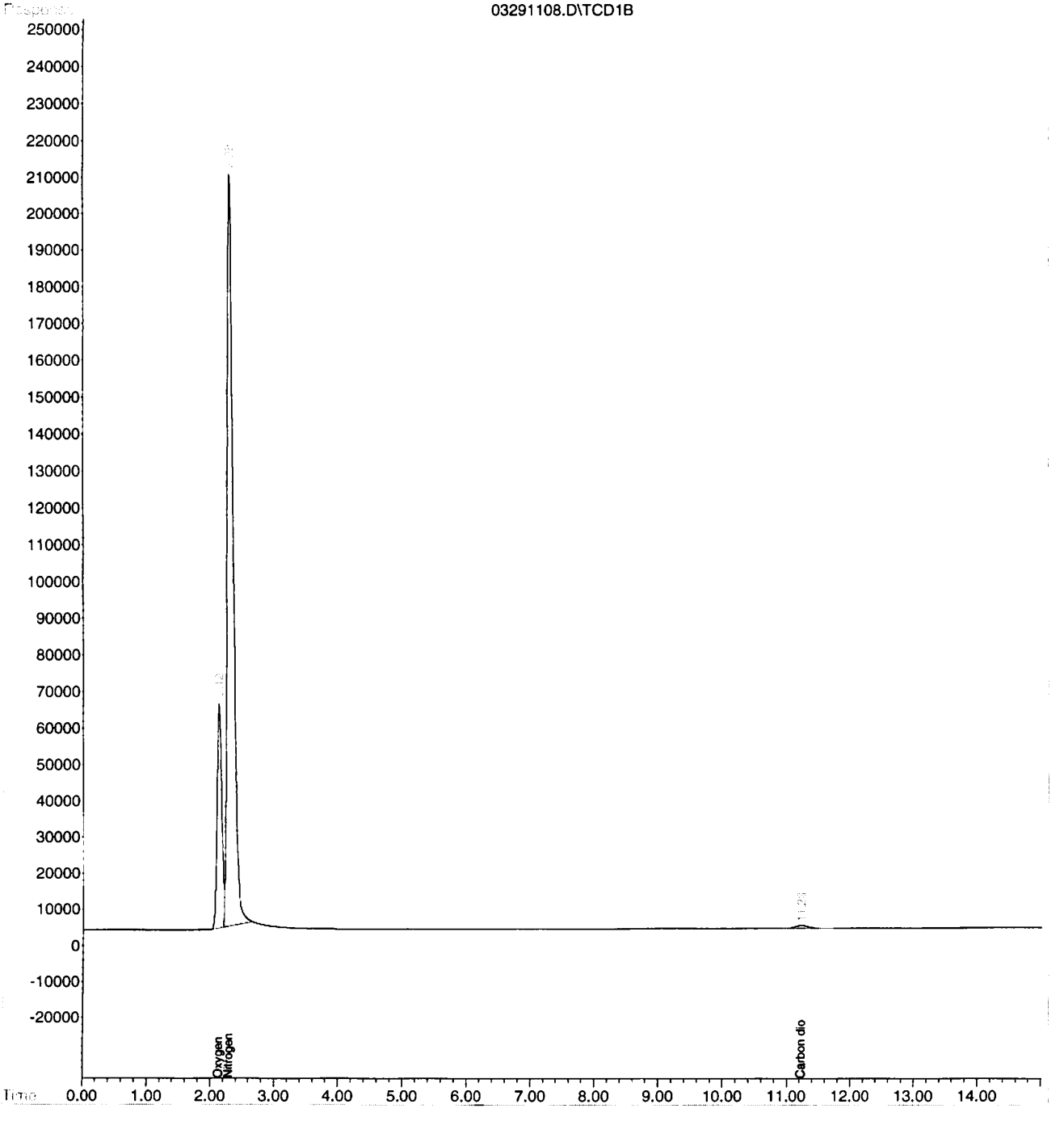
(f)=RT Delta > 1/2 Window (m)=manual int.
03291108.D 030511.M Sun Apr 17 14:39:44 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291108.D Vial: 1
Acq On : 30 Mar 2011 3:32 am Operator:
Sample : 1103609-012b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291109.D Vial: 1
Acq On : 30 Mar 2011 4:02 am Operator:
Sample : 1103609-013b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:36 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.14	980008	6.270	%
2)	Nitrogen	2.28	14464175	83.123	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	1700542	8.307	%

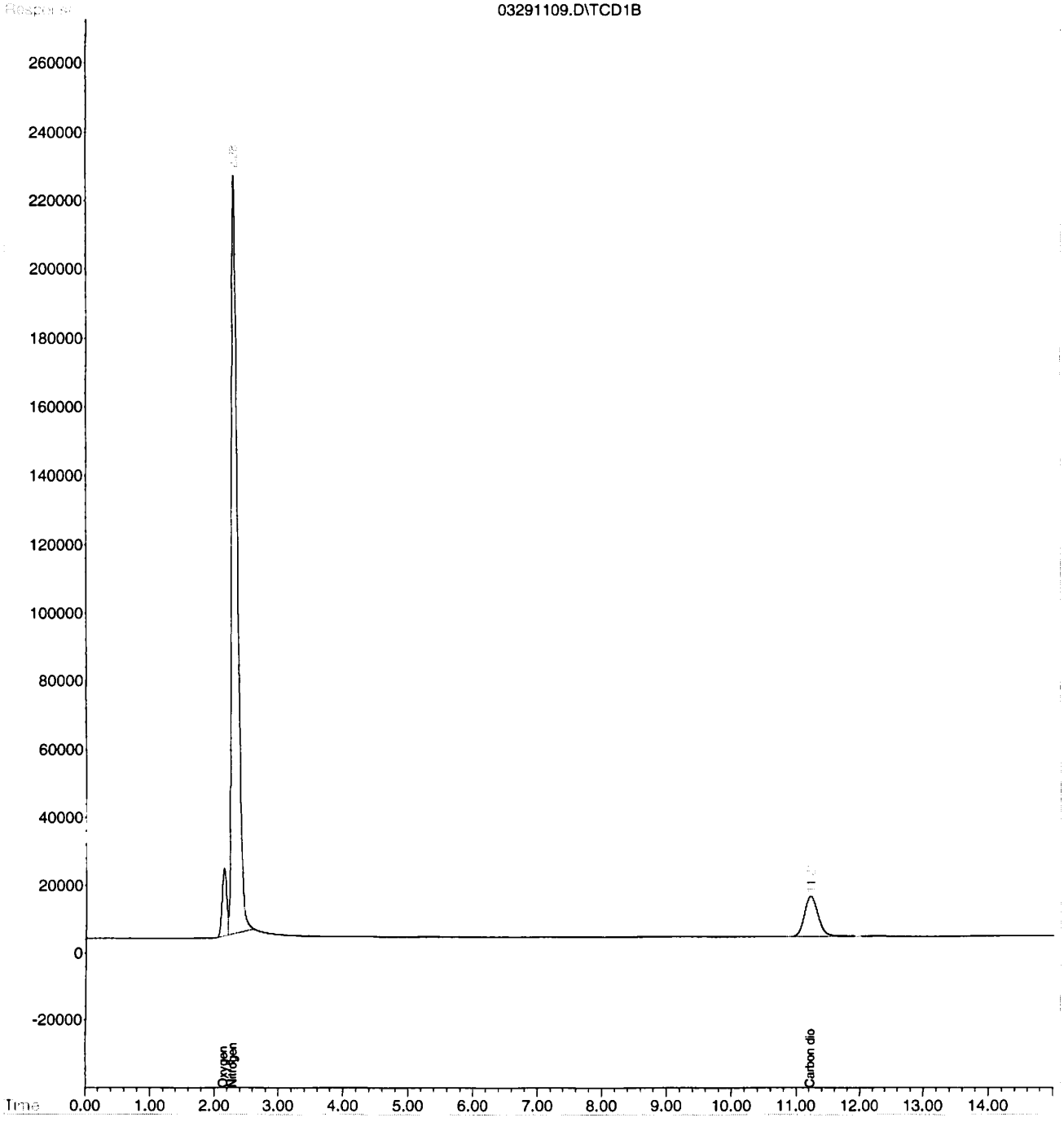
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291109.D Vial: 1
Acq On : 30 Mar 2011 4:02 am Operator:
Sample : 1103609-013b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:36 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291110.D Vial: 1
Acq On : 30 Mar 2011 4:30 am Operator:
Sample : 1103609-014b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.14	543649	3.478	%
2)	Nitrogen	2.28	14808034	85.100	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.21	1864582	9.109	%

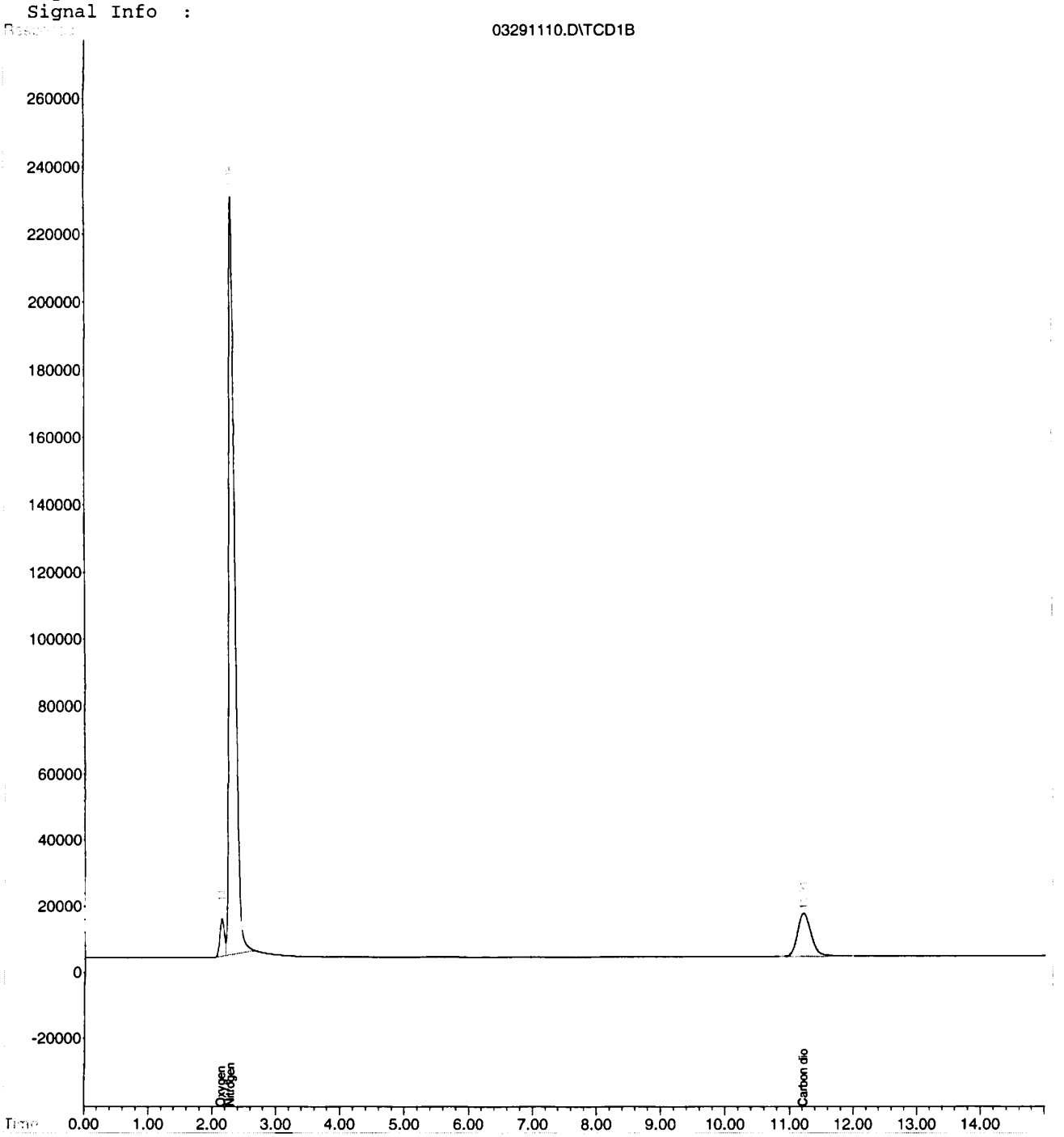
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291110.D Vial: 1
Acq On : 30 Mar 2011 4:30 am Operator:
Sample : 1103609-014b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291111.D Vial: 1
Acq On : 30 Mar 2011 5:11 am Operator:
Sample : 1103609-015b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3035265	19.418	%
2)	Nitrogen	2.28	13694039	78.698	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	153824	0.751	%

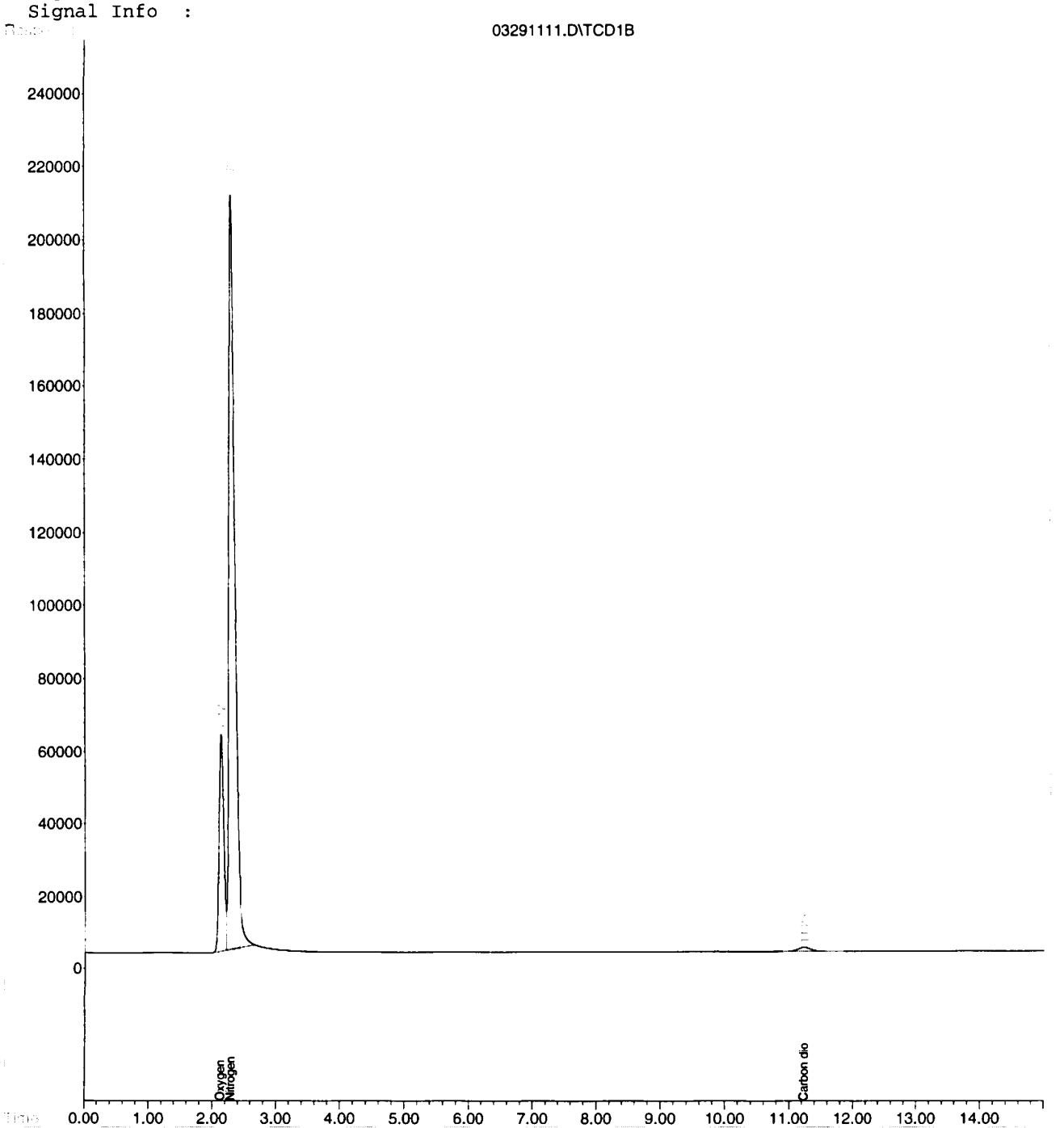
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291111.D Vial: 1
Acq On : 30 Mar 2011 5:11 am Operator:
Sample : 1103609-015b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291112.D Vial: 1
Acq On : 30 Mar 2011 6:07 am Operator:
Sample : 1103609-016b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	3234241	20.691	%
2)	Nitrogen	2.28	13580179	78.043	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	39735	0.194	%

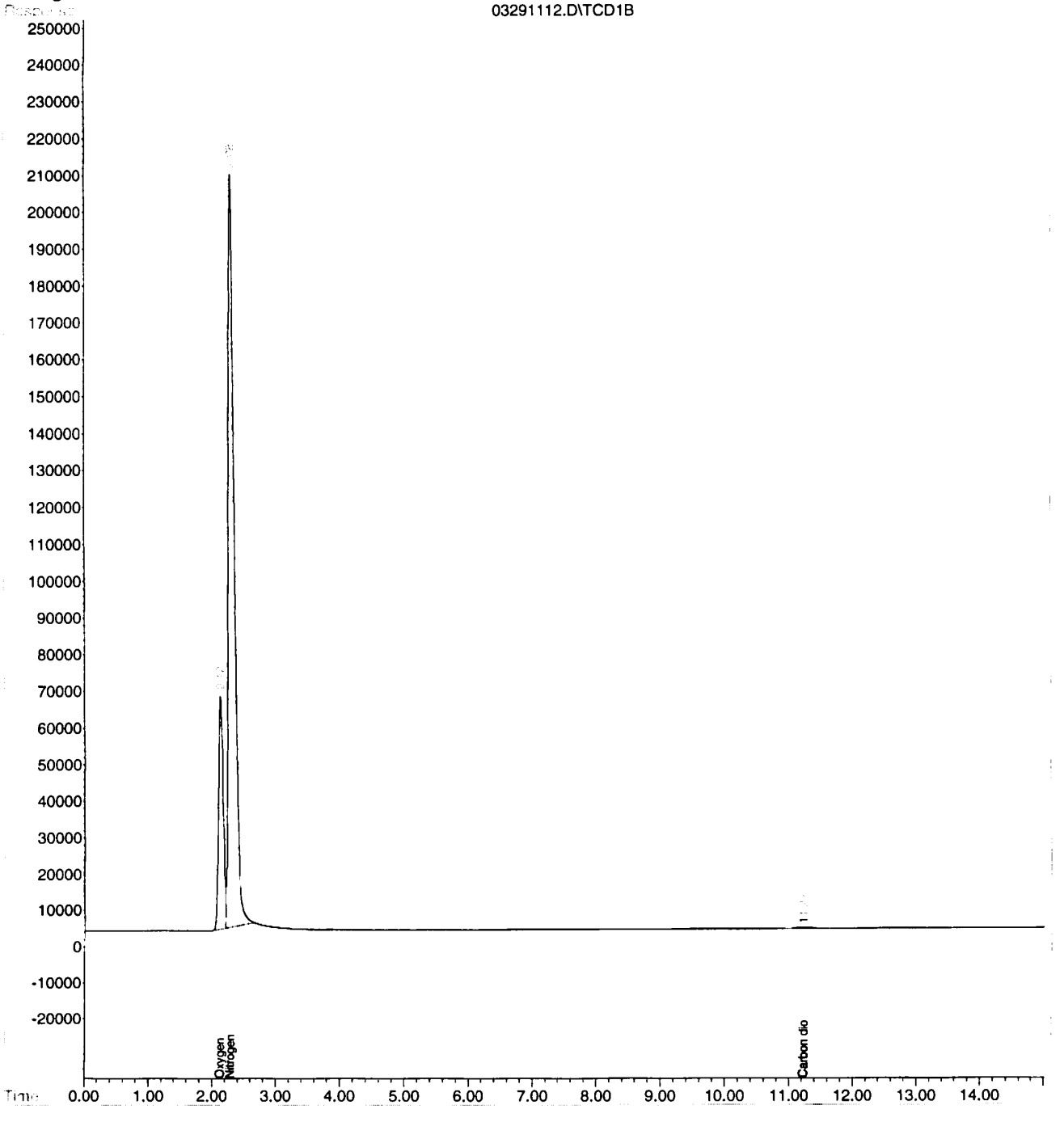
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291112.D Vial: 1
Acq On : 30 Mar 2011 6:07 am Operator:
Sample : 1103609-016b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291113.D Vial: 1
Acq On : 30 Mar 2011 6:30 am Operator:
Sample : 1103609-017b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2902485	18.568	%
2)	Nitrogen	2.28	13697456	78.717	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	174660	0.853	%

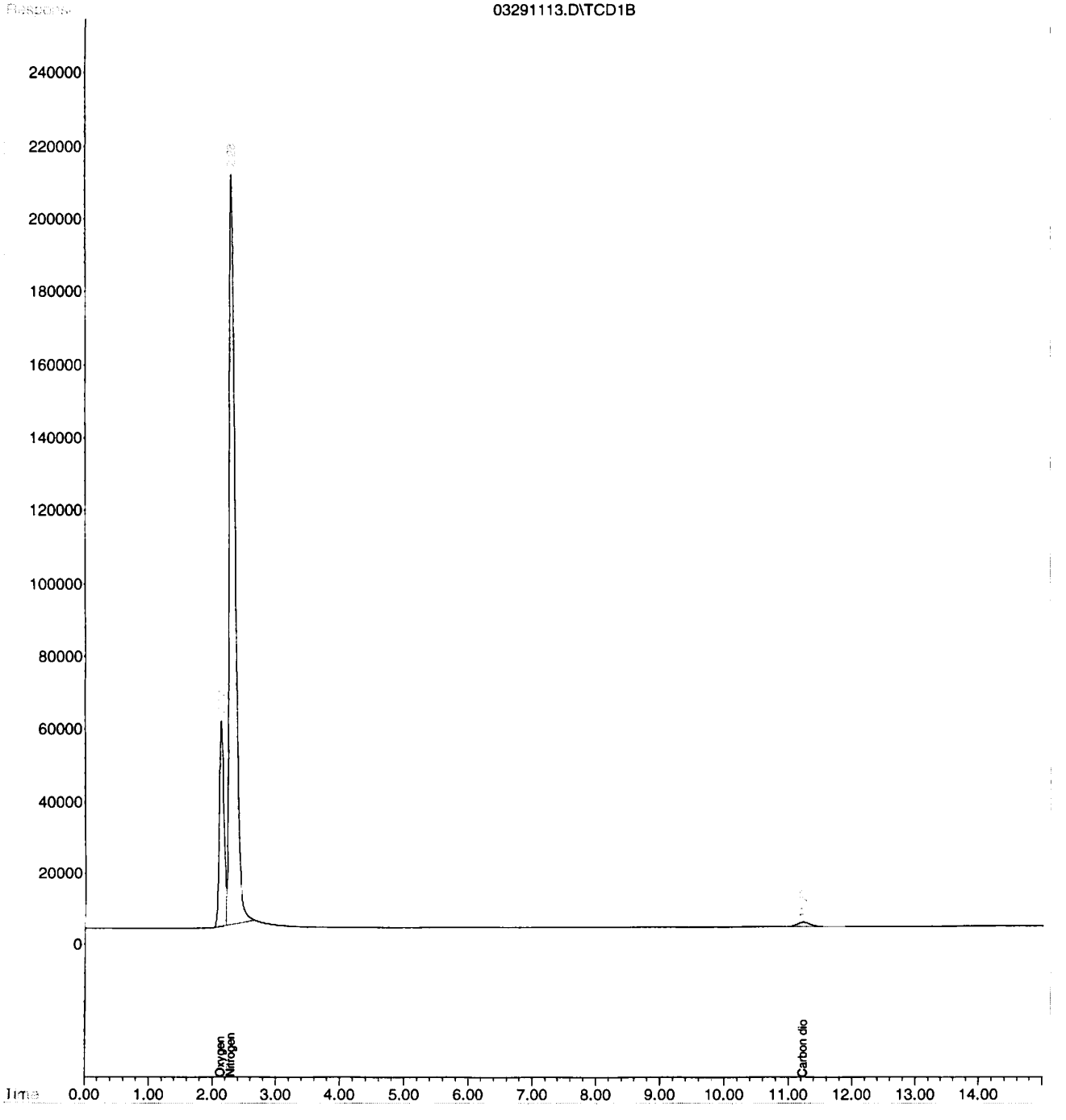
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291113.D Vial: 1
Acq On : 30 Mar 2011 6:30 am Operator:
Sample : 1103609-017b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291114.D Vial: 1
Acq On : 30 Mar 2011 7:06 am Operator:
Sample : 1103609-017bdup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

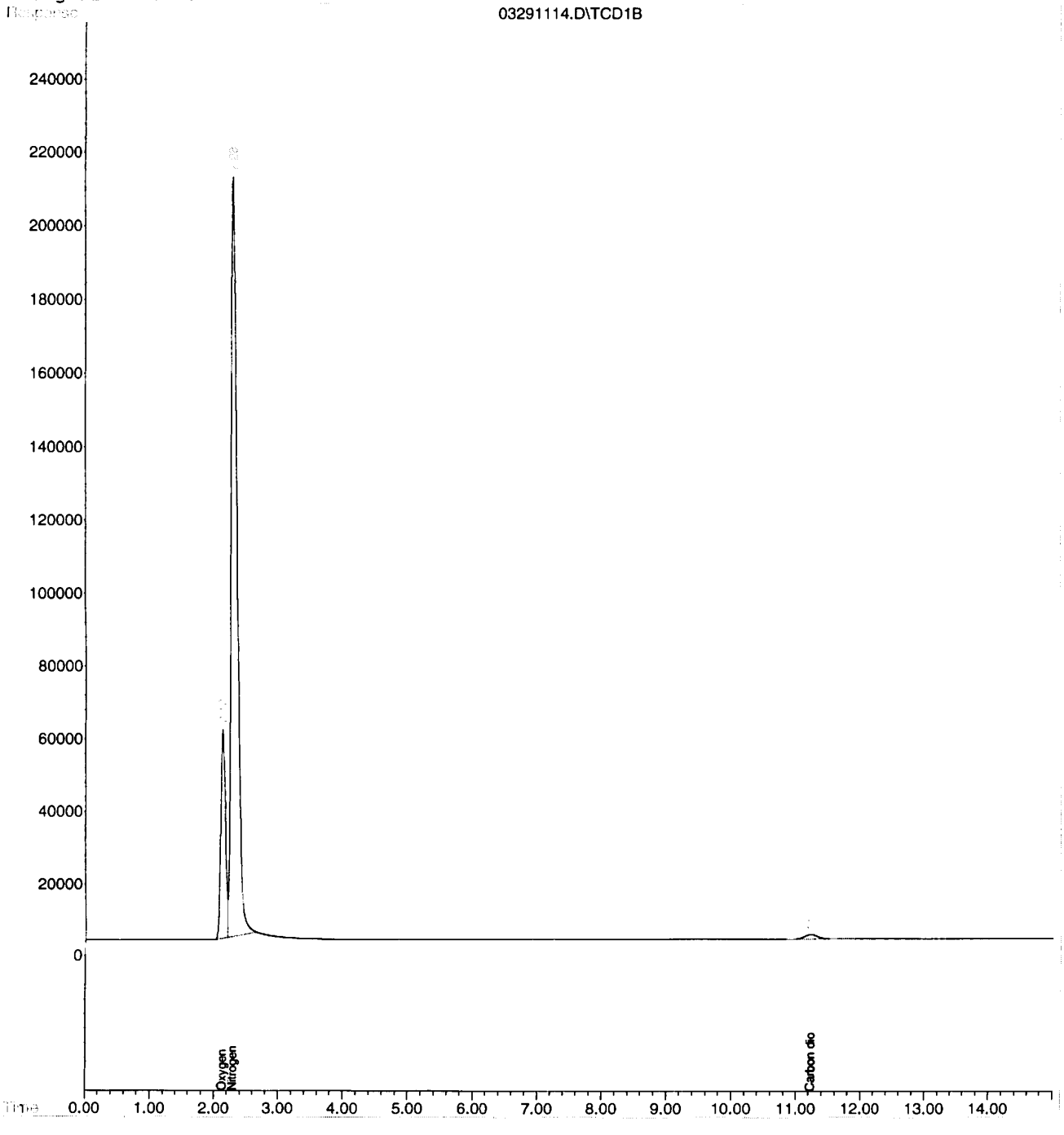
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2913486	18.639	%
2)	Nitrogen	2.28	13751778	79.029	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	175175	0.856	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291114.D Vial: 1
Acq On : 30 Mar 2011 7:06 am Operator:
Sample : 1103609-017bdup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291115.D Vial: 1
Acq On : 30 Mar 2011 7:27 am Operator:
Sample : ccb Inst : GC/TCD
Misc : CCB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:31 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

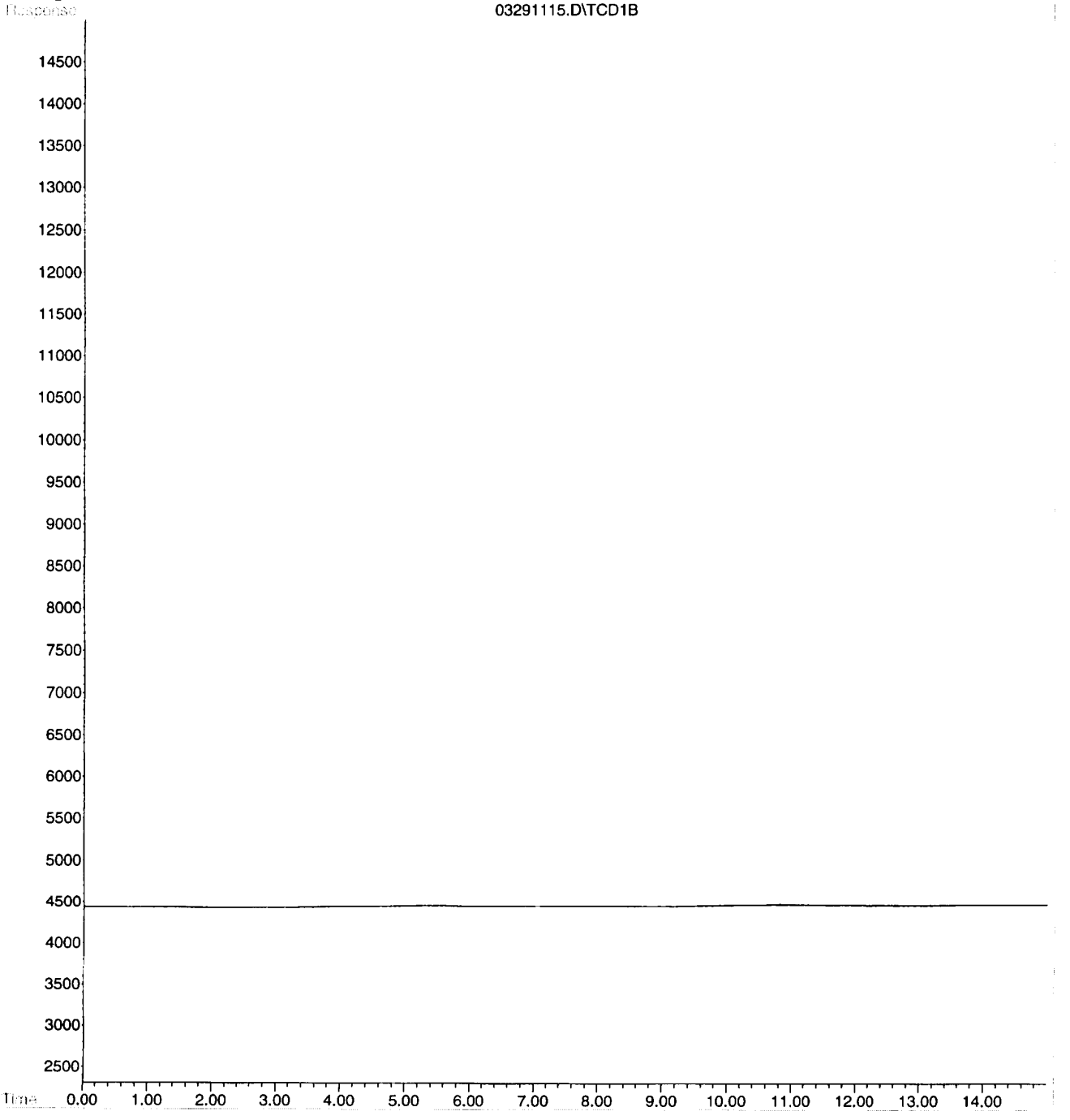
(f)=RT Delta > 1/2 Window (m)=manual int.
03291115.D 030511.M Sun Apr 17 14:40:15 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291115.D Vial: 1
Acq On : 30 Mar 2011 7:27 am Operator:
Sample : ccb Inst : GC/TCD
Misc : CCB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:31 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032911\03291116.D Vial: 1
Acq On : 30 Mar 2011 9:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.079	1.3	103	0.05
2	Nitrogen	1.390	1.166	16.1	102	0.05
3	Carbon Monoxide	0.140	0.136	2.9	118	0.05
4	Methane	0.090	0.098	-8.9	135	0.02
5	Carbon dioxide	0.300	0.301	-0.3	106	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032911\03291116.D Vial: 1
Acq On : 30 Mar 2011 9:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:40:23 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291116.D Vial: 1
Acq On : 30 Mar 2011 9:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 30 9:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.15	12383	0.079 %
2)	Nitrogen	2.34	202863	1.166 %
3)	Carbon Monoxide	3.04	22298	0.136 %
4)	Methane	6.27	13556	0.098 %
5)	Carbon dioxide	11.23f	61627	0.301 %

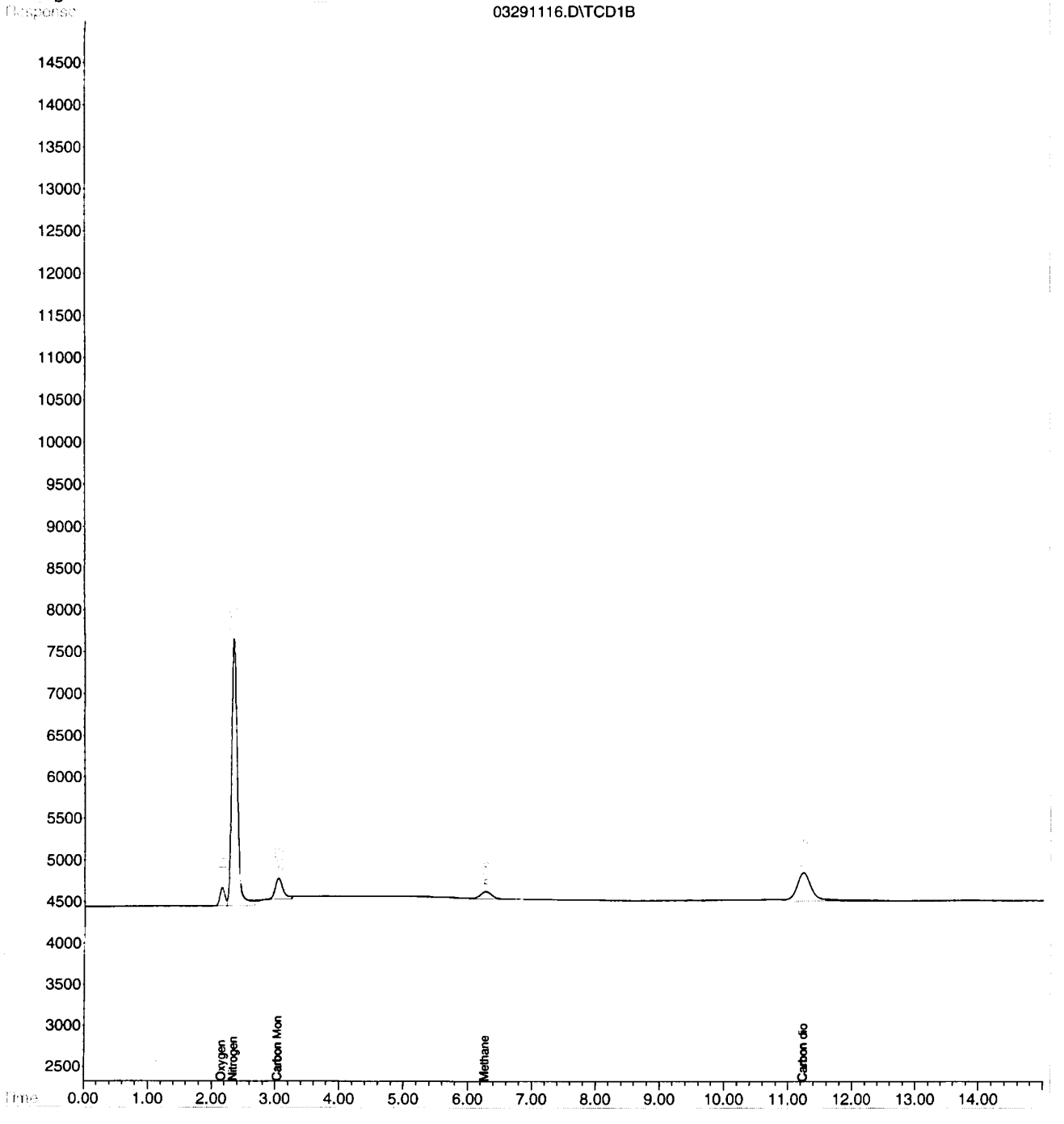
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291116.D Vial: 1
Acq On : 30 Mar 2011 9:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 30 9:32 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\032911\03291117.D Vial: 1
Acq On : 30 Mar 2011 9:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.519	-0.8	0	0.04
2	Nitrogen	2.500	2.840	-13.6	0	0.04
3	Carbon Monoxide	2.500	2.549	-2.0	0	0.04
4	Methane	2.000	1.972	1.4	0	0.02
5	Carbon dioxide	2.500	2.412	3.5	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\032911\03291117.D Vial: 1
Acq On : 30 Mar 2011 9:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:40:39 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032911\03291117.D Vial: 1
Acq On : 30 Mar 2011 9:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:30 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	393770	2.519 %
2)	Nitrogen	2.33	494214	2.840 %
3)	Carbon Monoxide	3.03	419150	2.549 %
4)	Methane	6.27	271603	1.972 %
5)	Carbon dioxide	11.23f	493702	2.412 %

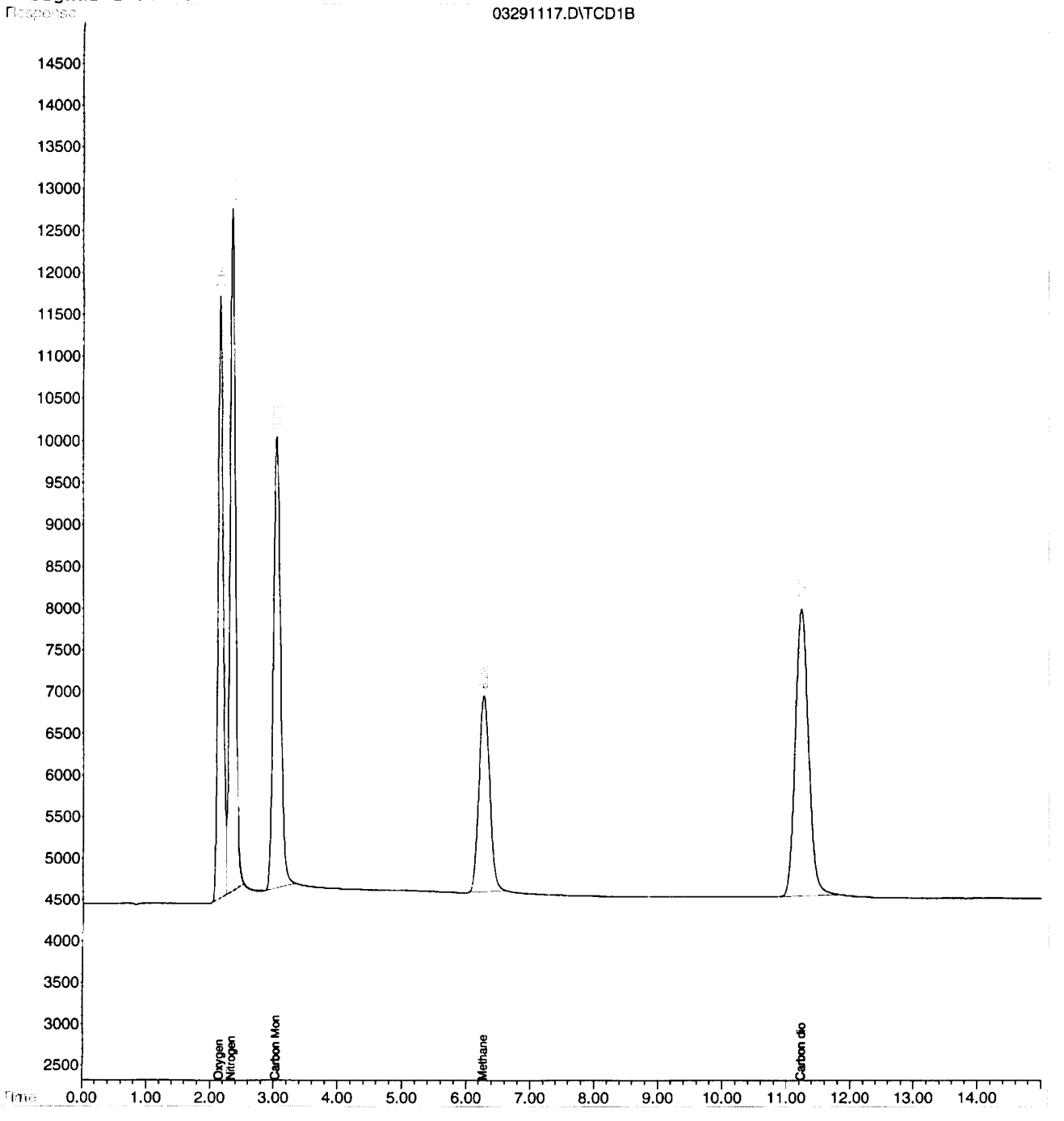
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032911\03291117.D Vial: 1
Acq On : 30 Mar 2011 9:42 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:30 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\033011

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	03301101.D	1.	icb	ICB ASTM-D2504	30 Mar 2011 23:11
2	1	03301102.D	1.	ccv std 1-2 a	CCV ASTM-D2504	30 Mar 2011 23:41
3	1	03301103.D	1.	crql std 2% a	CRQL ASTM-D2504	31 Mar 2011 00:01
4	2	03301104.d	1.	lcs	LCS ASTM-D2504	31 Mar 2011 01:13
5	1	03301105.D	1.	lcsd	LCSD ASTM-D2504	31 Mar 2011 01:36
6	1	03301106.d	1.	mb	MBLK ASTM-D2504	31 Mar 2011 02:04
7	1	03301107.d	1.	1103609-018b	SAMP ASTM-D2504	31 Mar 2011 02:38
8	1	03301108.D	1.	1103609-019b	SAMP ASTM-D2504	31 Mar 2011 02:59
9	1	03301109.D	1.	1103609-020b	SAMP ASTM-D2504	31 Mar 2011 03:27
10	1	03301110.D	1.	1103609-021b	SAMP ASTM-D2504	31 Mar 2011 03:50
11	1	03301111.D	1.	1103609-022b	SAMP ASTM-D2504	31 Mar 2011 04:11
12	1	03301112.D	1.	1103609-023b	SAMP ASTM-D2504	31 Mar 2011 04:46
13	1	03301113.D	1.	1103609-024b	SAMP ASTM-D2504	31 Mar 2011 05:07
14	1	03301114.D	1.	1103609-025b	SAMP ASTM-D2504	31 Mar 2011 05:27
15	1	03301115.D	1.	1103609-026b	SAMP ASTM-D2504	31 Mar 2011 05:46
16	1	03301116.D	1.	1103609-027b	SAMP ASTM-D2504	31 Mar 2011 06:05
17	1	03301117.D	1.	1103609-027bdup	DUP ASTM-D2504	31 Mar 2011 06:29
18	1	03301118.d	1.	crql std 2% b	CRQL ASTM-D2504	31 Mar 2011 08:07
19	1	03301119.d	1.	ccv std 1-2 b	CCV ASTM-D2504	31 Mar 2011 08:53

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301101.D Vial: 1
Acq On : 30 Mar 2011 11:11 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

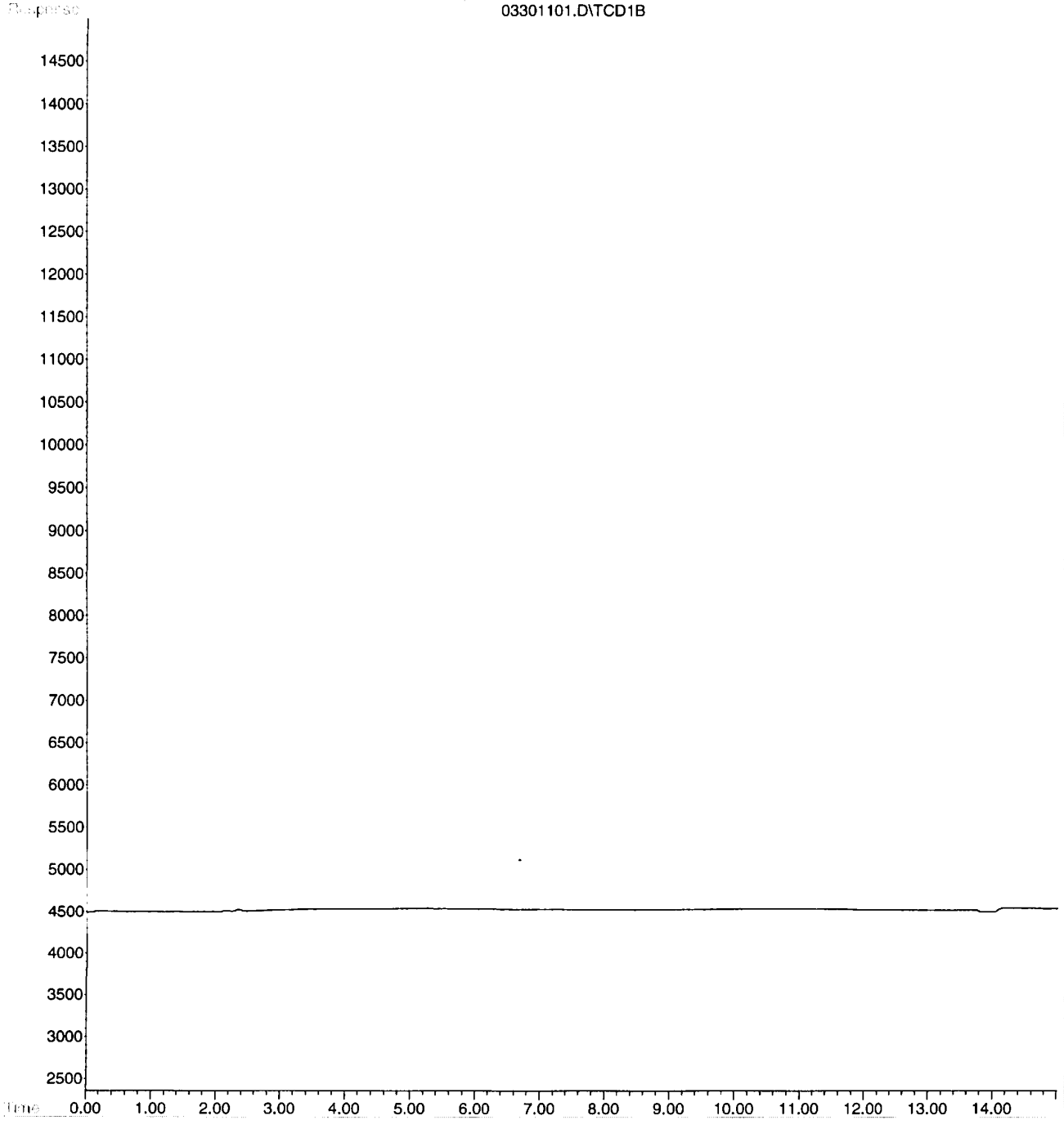
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301101.D Vial: 1
Acq On : 30 Mar 2011 11:11 pm Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:39 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\033011\03301102.D Vial: 1
Acq On : 30 Mar 2011 11:41 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.388	4.5	0	0.04
2	Nitrogen	2.500	2.740	-9.6	0	0.04
3	Carbon Monoxide	2.500	2.383	4.7	0	0.04
4	Methane	2.000	1.926	3.7	0	0.02
5	Carbon dioxide	2.500	2.250	10.0	0	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\033011\03301102.D Vial: 1
Acq On : 30 Mar 2011 11:41 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:41:06 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301102.D Vial: 1
Acq On : 30 Mar 2011 11:41 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 0:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

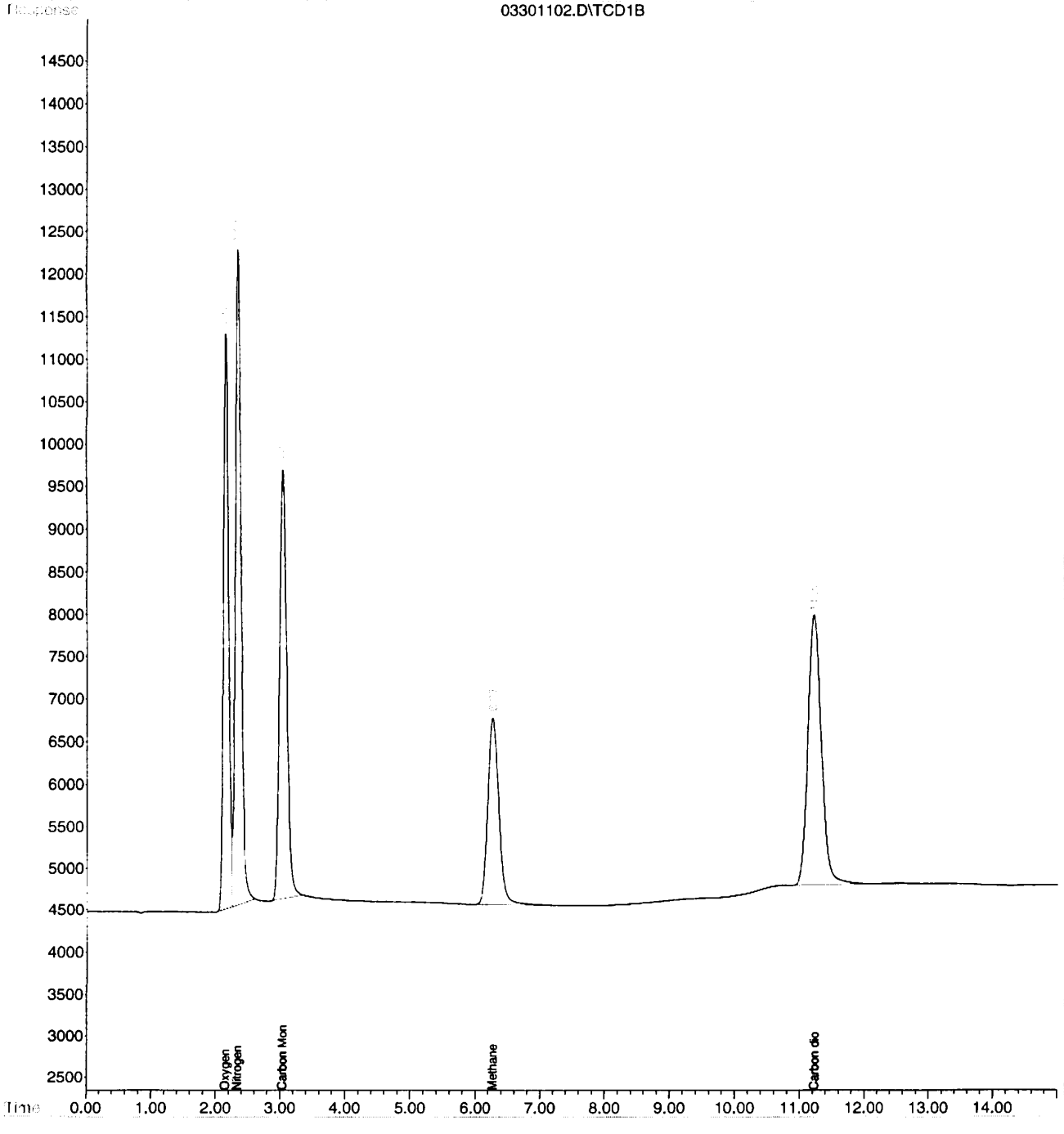
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	373292	2.388 %
2)	Nitrogen	2.33	476713	2.740 %
3)	Carbon Monoxide	3.03	391825	2.383 %
4)	Methane	6.27	265173	1.926 %
5)	Carbon dioxide	11.22	460604	2.250 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301102.D Vial: 1
Acq On : 30 Mar 2011 11:41 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 0:20 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\033011\03301103.D Vial: 1
Acq On : 31 Mar 2011 12:01 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.088	-10.0	115	0.04
2	Nitrogen	1.390	1.662	-19.6	145	0.04
3	Carbon Monoxide	0.140	0.163	-16.4	143	0.04
4	Methane	0.090	0.099	-10.0	136	0.02
5	Carbon dioxide	0.300	0.333	-11.0	117	0.05

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\033011\03301103.D Vial: 1
Acq On : 31 Mar 2011 12:01 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:41:18 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301103.D Vial: 1
Acq On : 31 Mar 2011 12:01 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 1:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	13770	0.088 %
2)	Nitrogen	2.33	289199	1.662 %
3)	Carbon Monoxide	3.03	26881	0.163 %
4)	Methane	6.27	13651	0.099 %
5)	Carbon dioxide	11.23f	68070	0.333 %

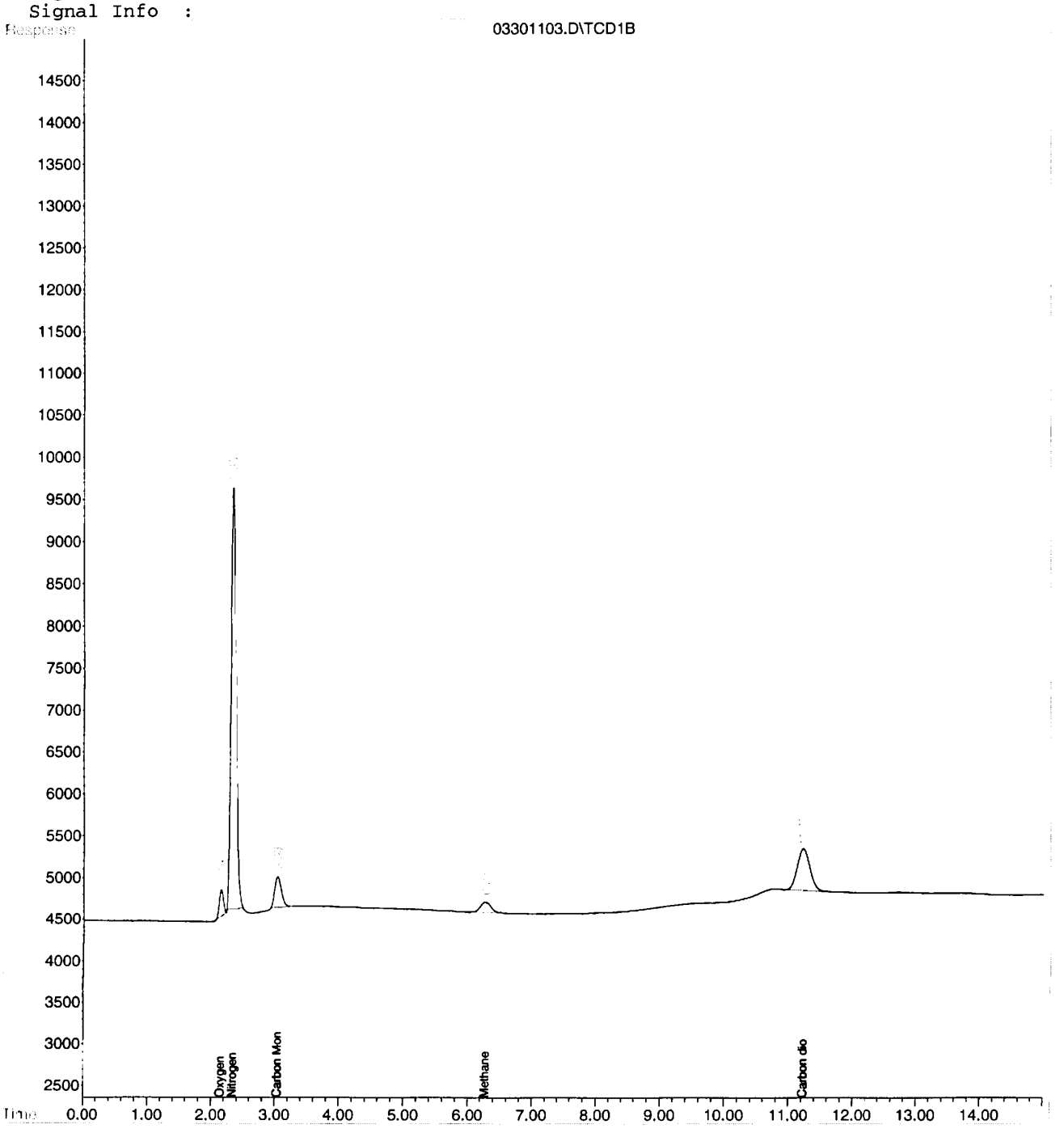
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301103.D Vial: 1
Acq On : 31 Mar 2011 12:01 am Operator:
Sample : crql std 2% a Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 1:37 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301104.D Vial: 2
Acq On : 31 Mar 2011 1:13 am Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

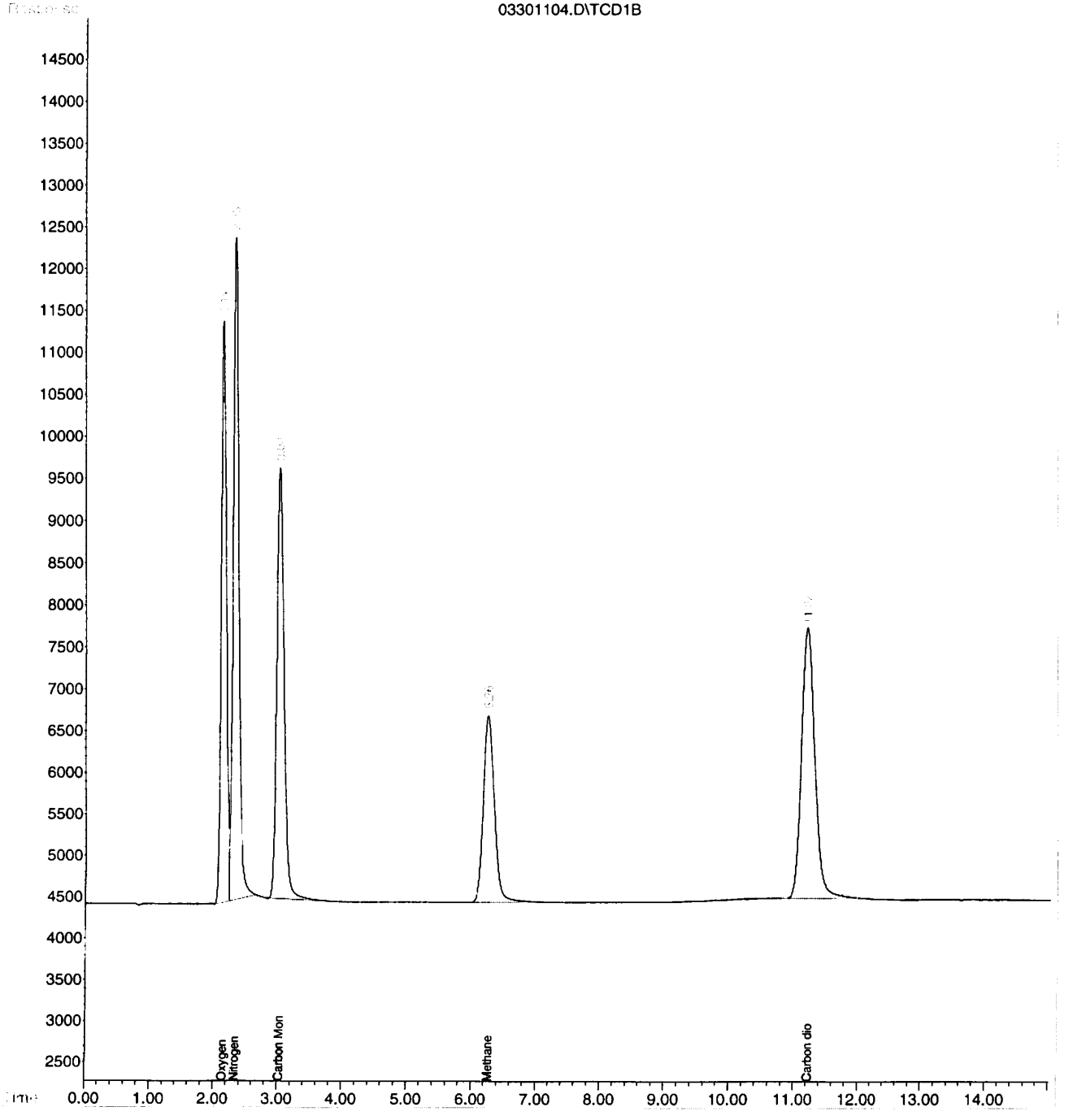
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	382340	2.446 %
2)	Nitrogen	2.33	493899	2.838 %
3)	Carbon Monoxide	3.02	407226	2.477 %
4)	Methane	6.26	269184	1.955 %
5)	Carbon dioxide	11.22	468994	2.291 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301104.D Vial: 2
Acq On : 31 Mar 2011 1:13 am Operator:
Sample : lcs Inst : GC/TCD
Misc : LCS ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301105.D Vial: 1
Acq On : 31 Mar 2011 1:36 am Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	387581	2.480 %
2)	Nitrogen	2.33	508712	2.923 %
3)	Carbon Monoxide	3.03	404588	2.461 %
4)	Methane	6.27	267727	1.944 %
5)	Carbon dioxide	11.22	461091	2.252 %

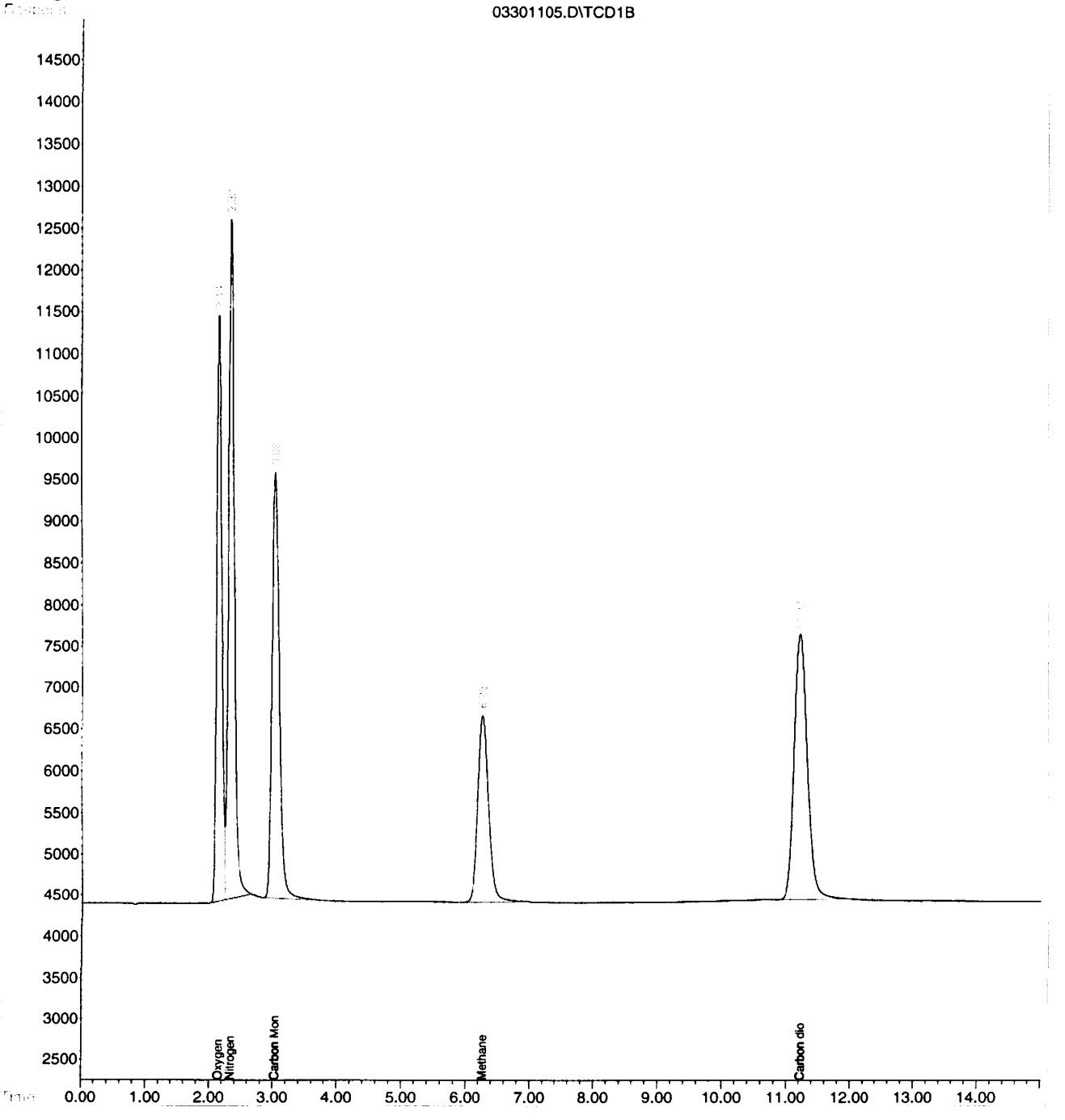
(f)=RT Delta > 1/2 Window (m)=manual int.
03301105.D 030511.M Sun Apr 17 14:41:31 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301105.D Vial: 1
Acq On : 31 Mar 2011 1:36 am Operator:
Sample : lcsd Inst : GC/TCD
Misc : LCSD ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:40 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301106.D Vial: 1
Acq On : 31 Mar 2011 2:04 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

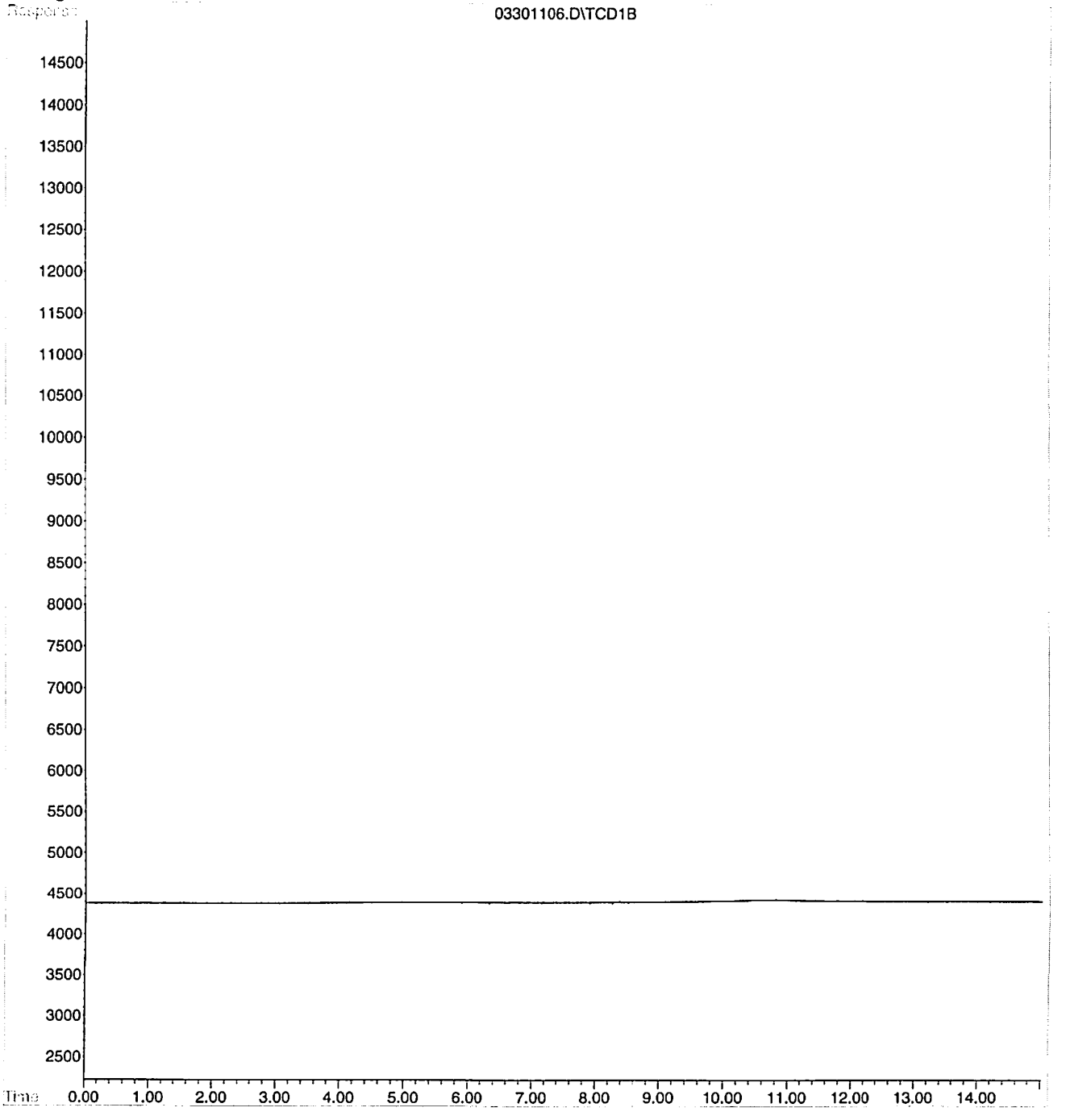
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301106.D Vial: 1
Acq On : 31 Mar 2011 2:04 am Operator:
Sample : mb Inst : GC/TCD
Misc : MBLK ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301107.D Vial: 1
Acq On : 31 Mar 2011 2:38 am Operator:
Sample : 1103609-018b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2807479	17.961	%
2)	Nitrogen	2.29	13859285	79.647	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23f	74177	0.362	%

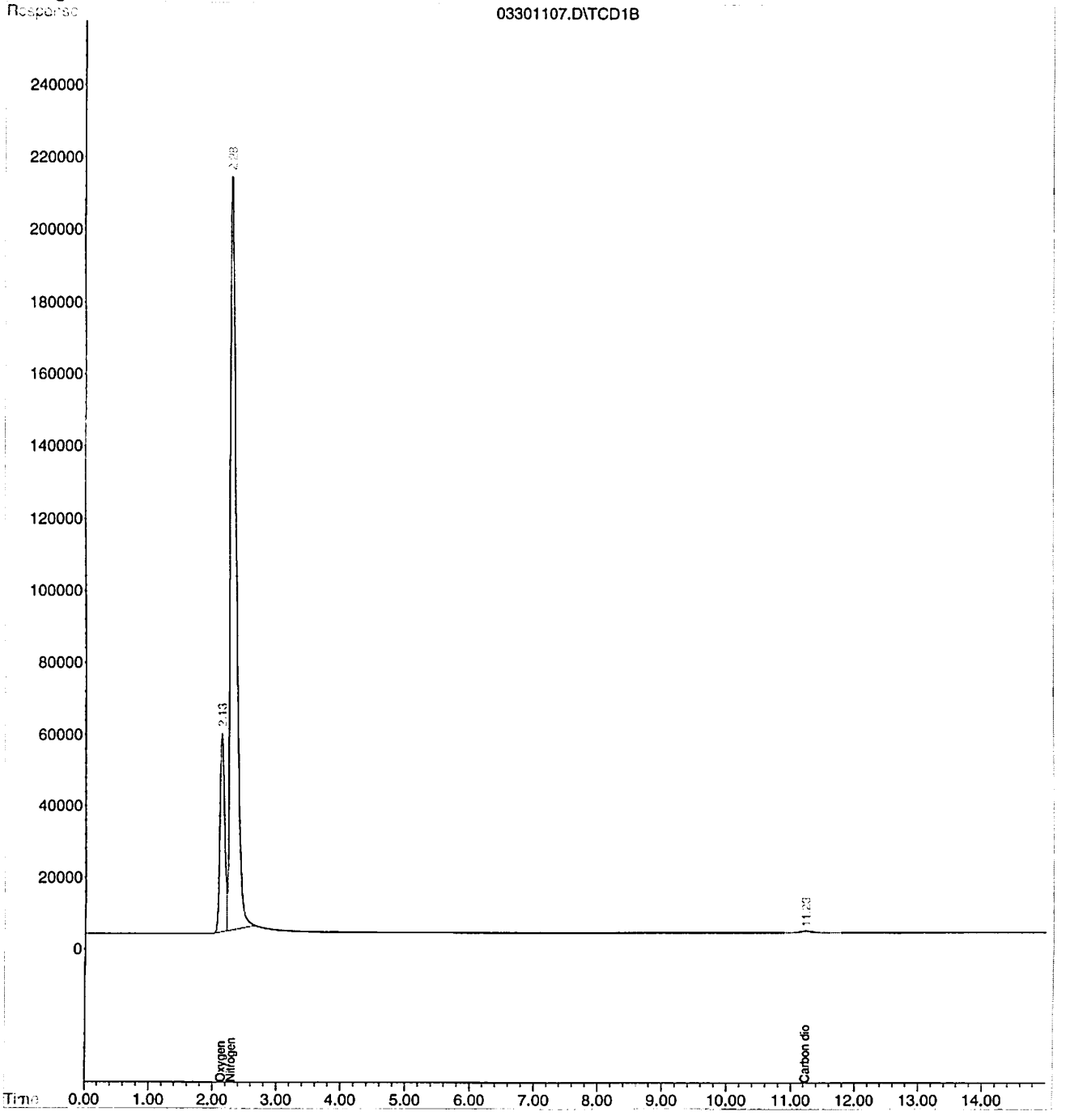
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301107.D Vial: 1
Acq On : 31 Mar 2011 2:38 am Operator:
Sample : 1103609-018b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301108.D Vial: 1
Acq On : 31 Mar 2011 2:59 am Operator:
Sample : 1103609-019b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2667499	17.065	%
2)	Nitrogen	2.28	13877073	79.749	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	93986	0.459	%

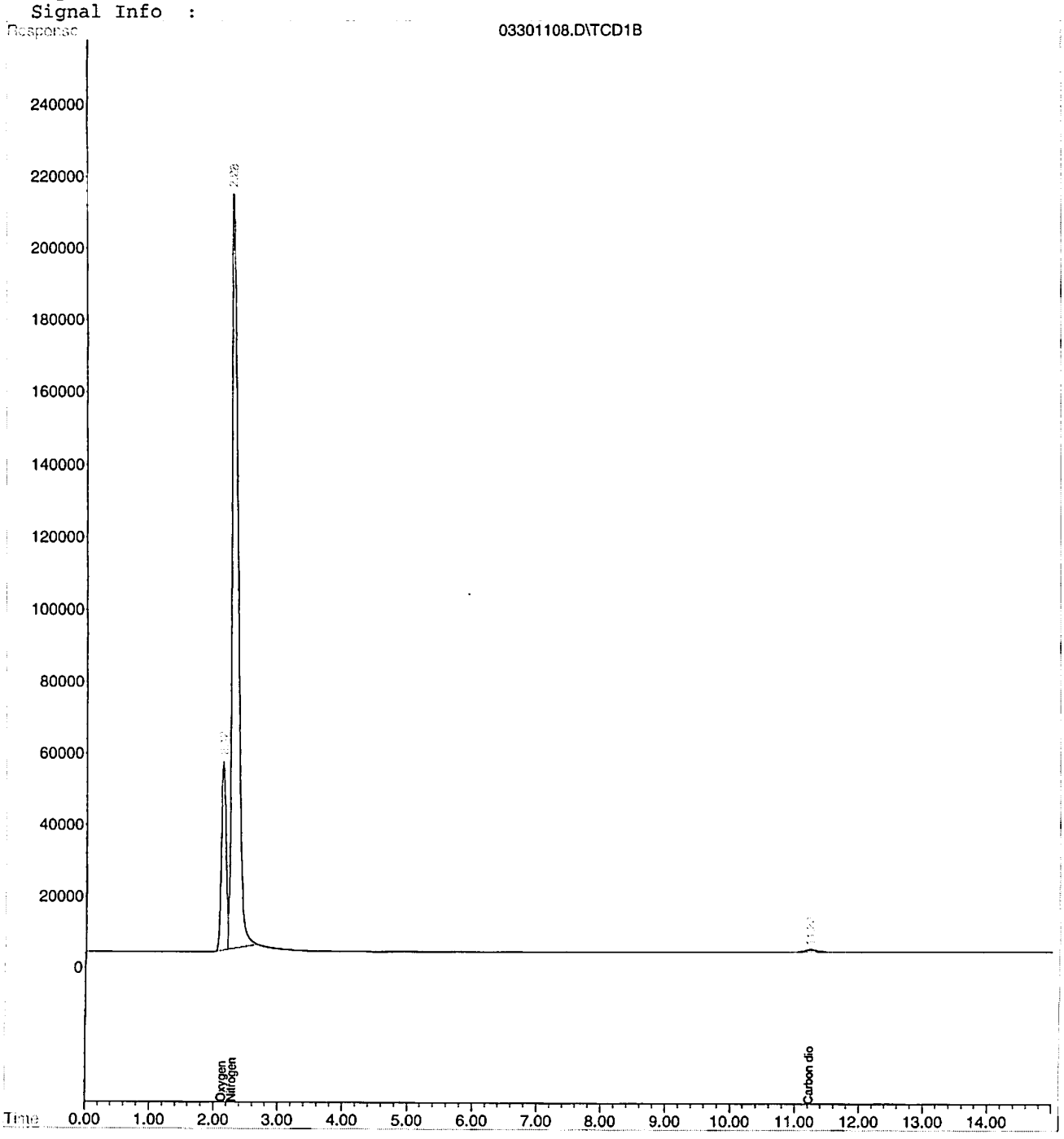
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301108.D Vial: 1
Acq On : 31 Mar 2011 2:59 am Operator:
Sample : 1103609-019b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:41 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301109.D Vial: 1
Acq On : 31 Mar 2011 3:27 am Operator:
Sample : 1103609-020b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:42 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

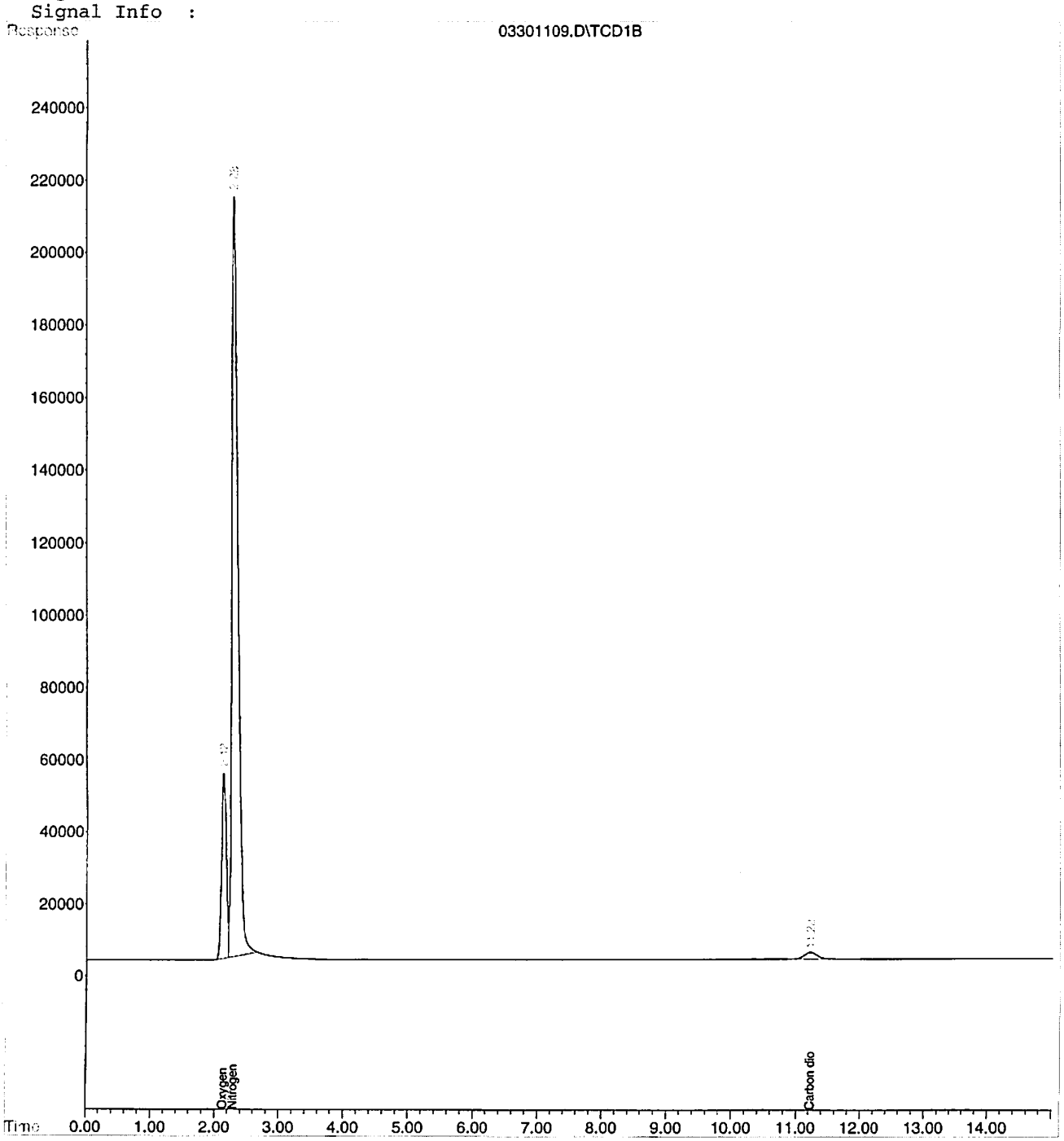
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2589463	16.566	%
2)	Nitrogen	2.28	13880007	79.766	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	263989	1.290	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301109.D Vial: 1
Acq On : 31 Mar 2011 3:27 am Operator:
Sample : 1103609-020b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:42 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301110.D Vial: 1
Acq On : 31 Mar 2011 3:50 am Operator:
Sample : 1103609-021b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:42 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.13	2594767	16.600	%
2)	Nitrogen	2.28	13831724	79.489	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	258286	1.262	%

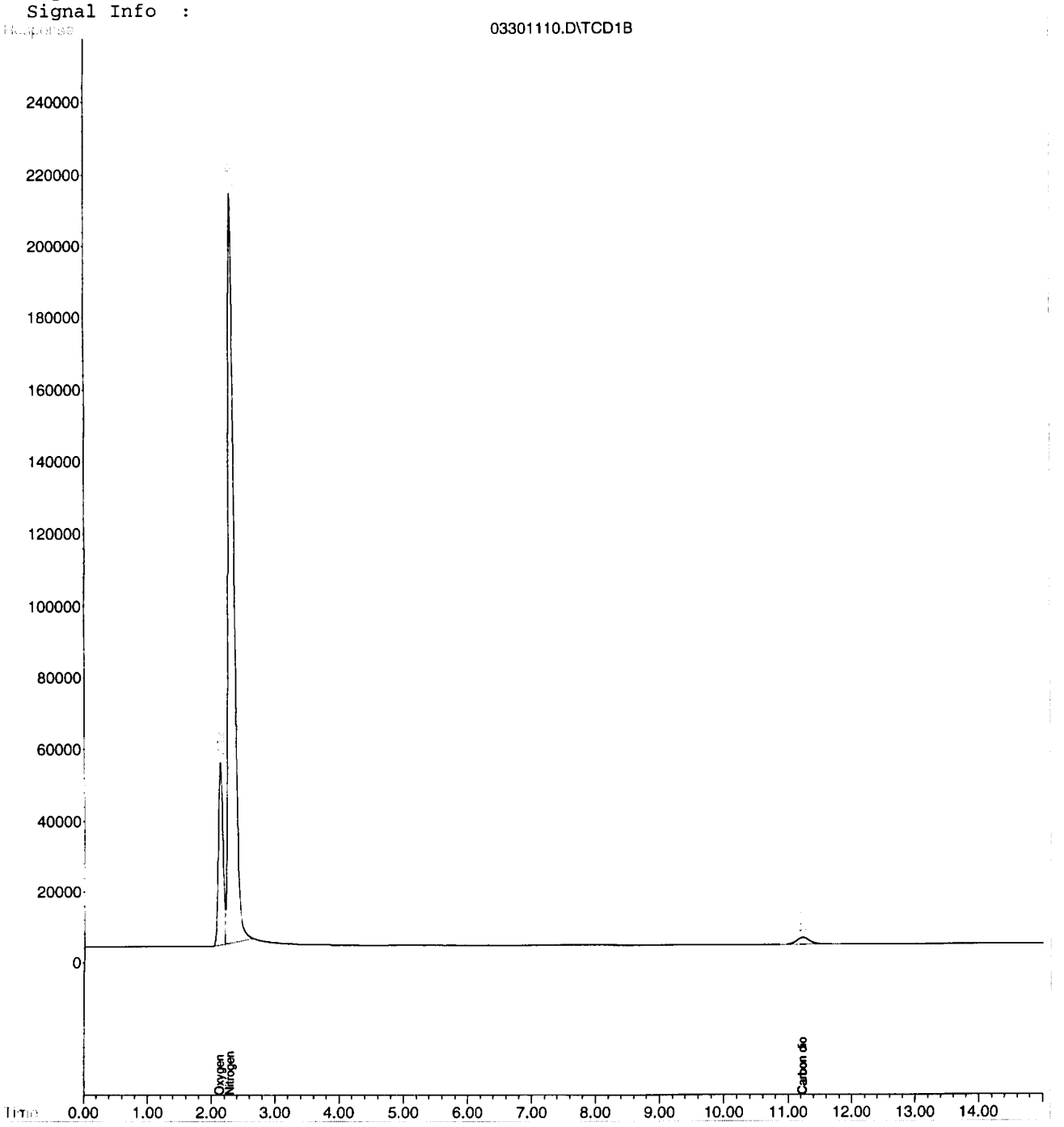
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301110.D Vial: 1
Acq On : 31 Mar 2011 3:50 am Operator:
Sample : 1103609-021b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:42 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301111.D Vial: 1
Acq On : 31 Mar 2011 4:11 am Operator:
Sample : 1103609-022b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:42 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

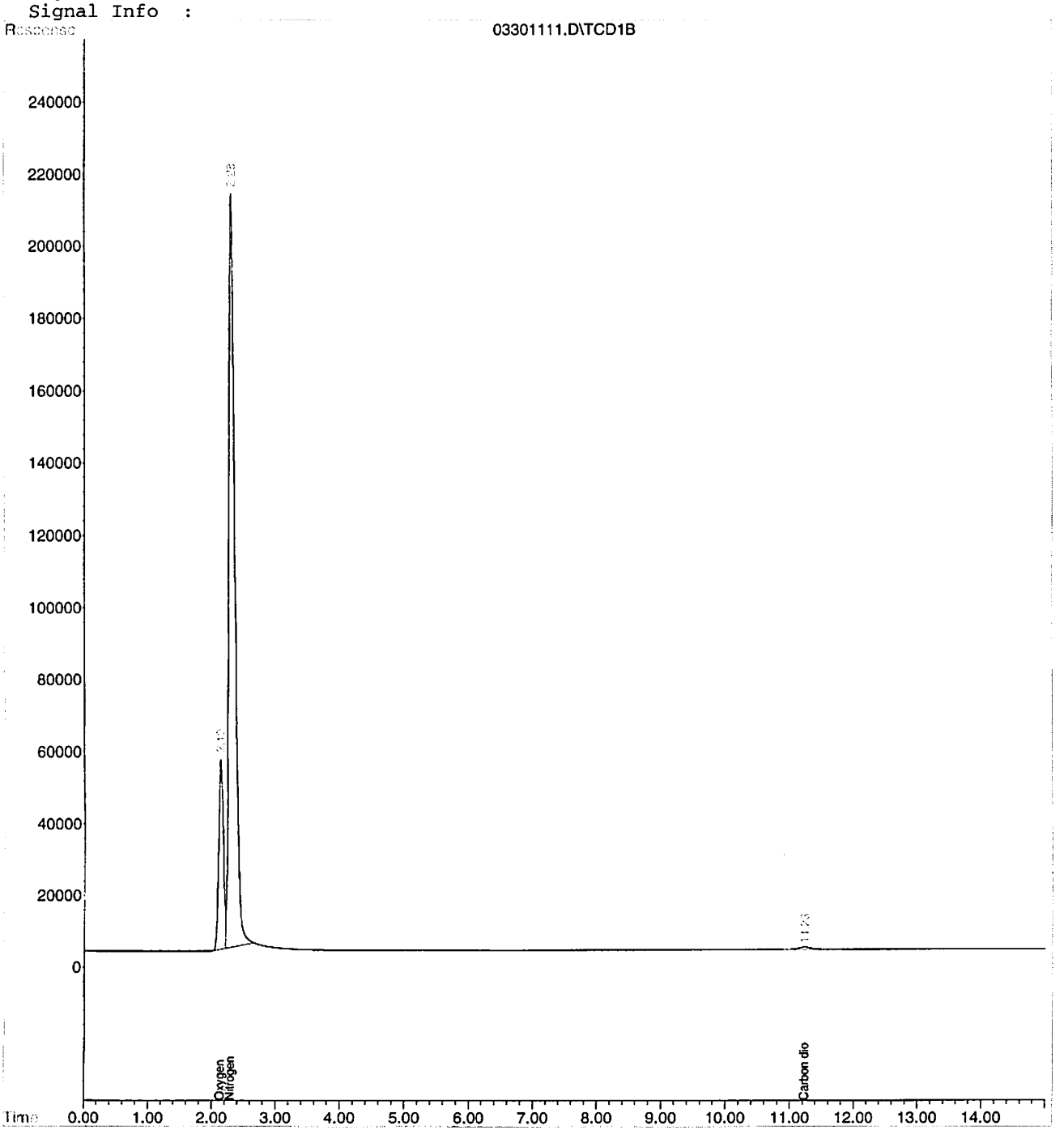
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2666099	17.056	%
2)	Nitrogen	2.28	13815960	79.398	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	85901	0.420	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301111.D Vial: 1
Acq On : 31 Mar 2011 4:11 am Operator:
Sample : 1103609-022b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:42 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301112.D Vial: 1
Acq On : 31 Mar 2011 4:46 am Operator:
Sample : 1103609-023b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:43 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2634388	16.853	%
2)	Nitrogen	2.28	14018972	80.565	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	80154	0.392	%

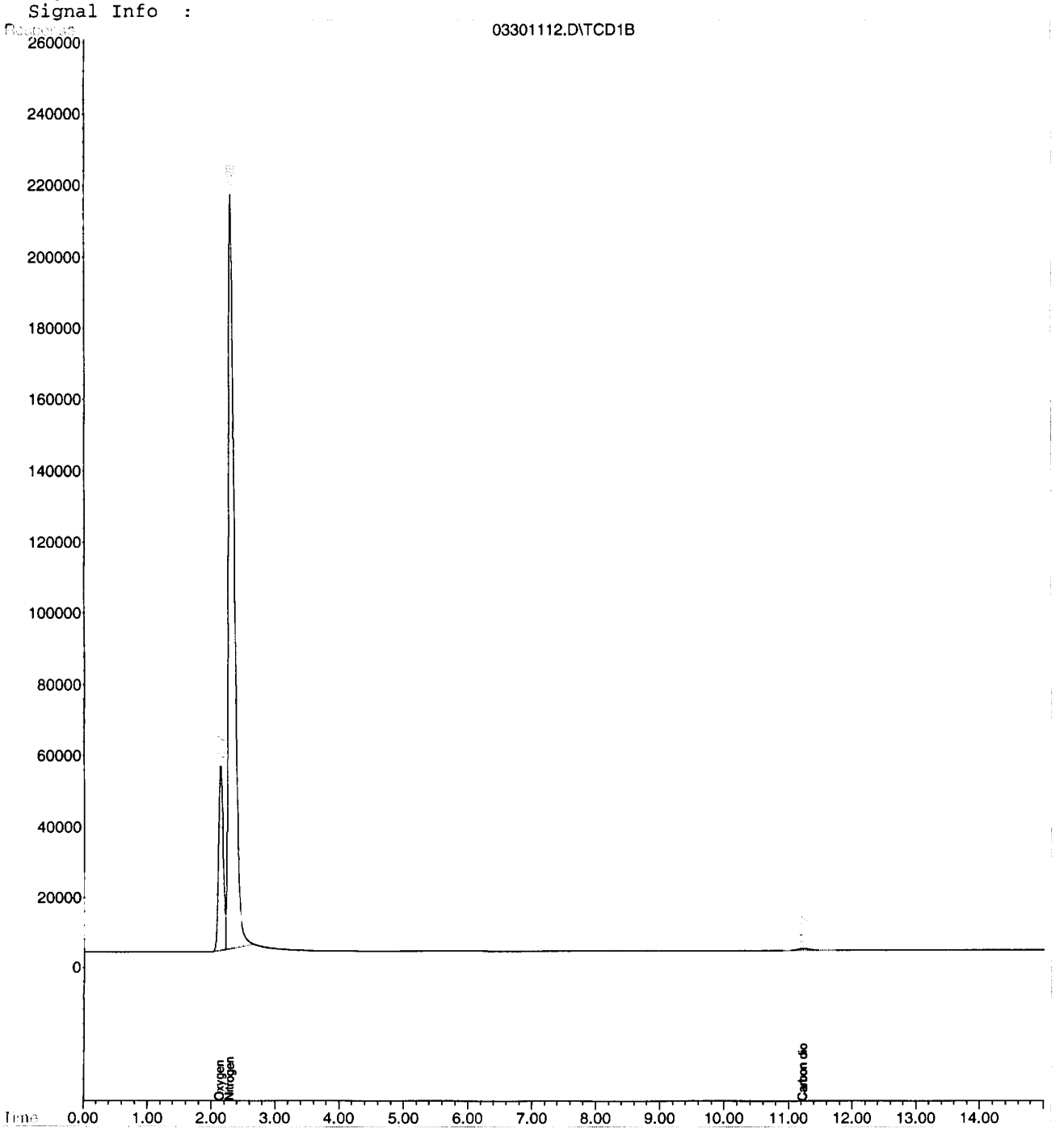
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301112.D Vial: 1
Acq On : 31 Mar 2011 4:46 am Operator:
Sample : 1103609-023b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:43 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301113.D Vial: 1
Acq On : 31 Mar 2011 5:07 am Operator:
Sample : 1103609-024b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:43 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2888926	18.482	%
2)	Nitrogen	2.28	13631777	78.340	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	64022	0.313	%

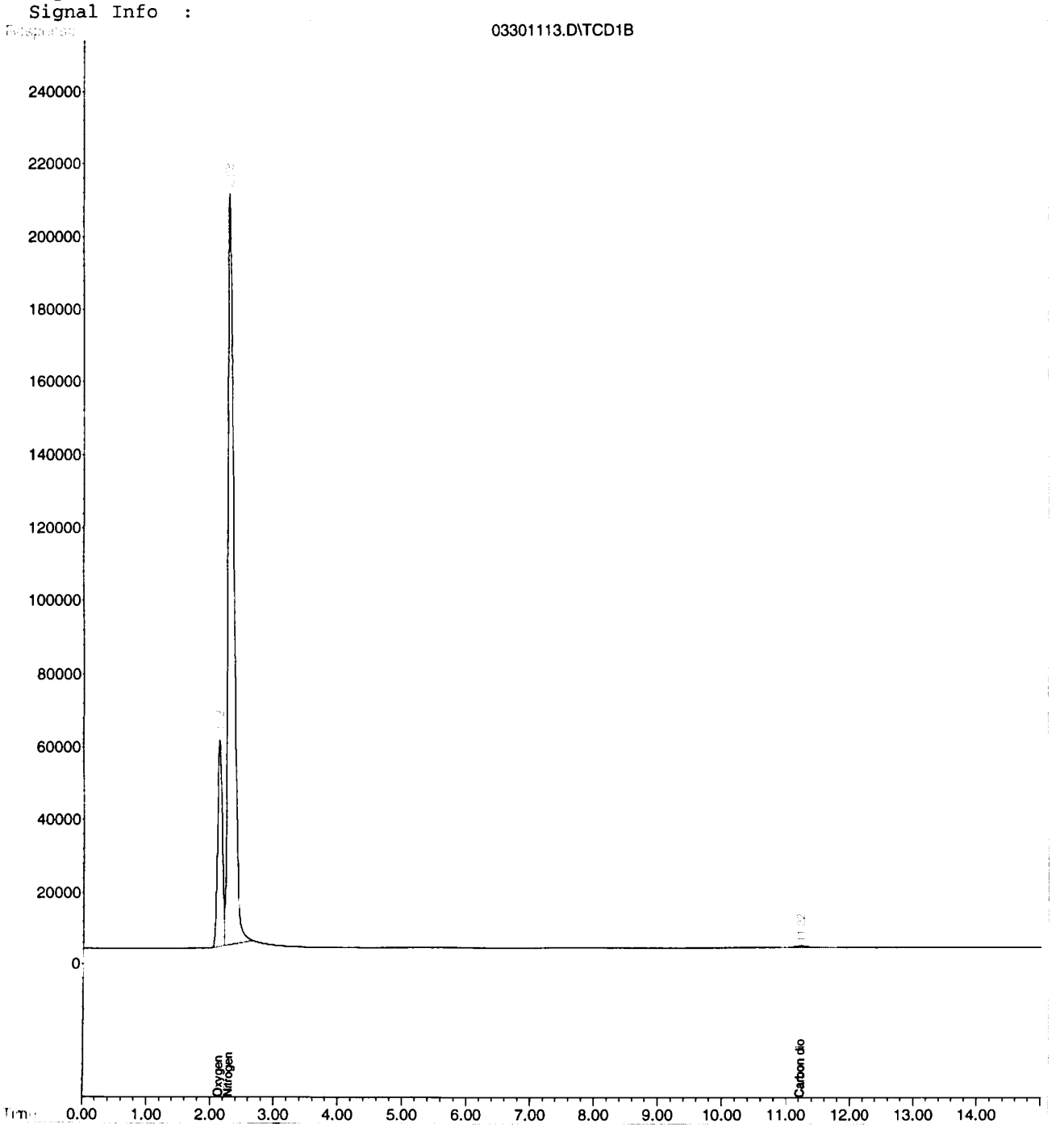
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301113.D Vial: 1
Acq On : 31 Mar 2011 5:07 am Operator:
Sample : 1103609-024b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:43 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301114.D Vial: 1
Acq On : 31 Mar 2011 5:27 am Operator:
Sample : 1103609-025b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 5:43 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

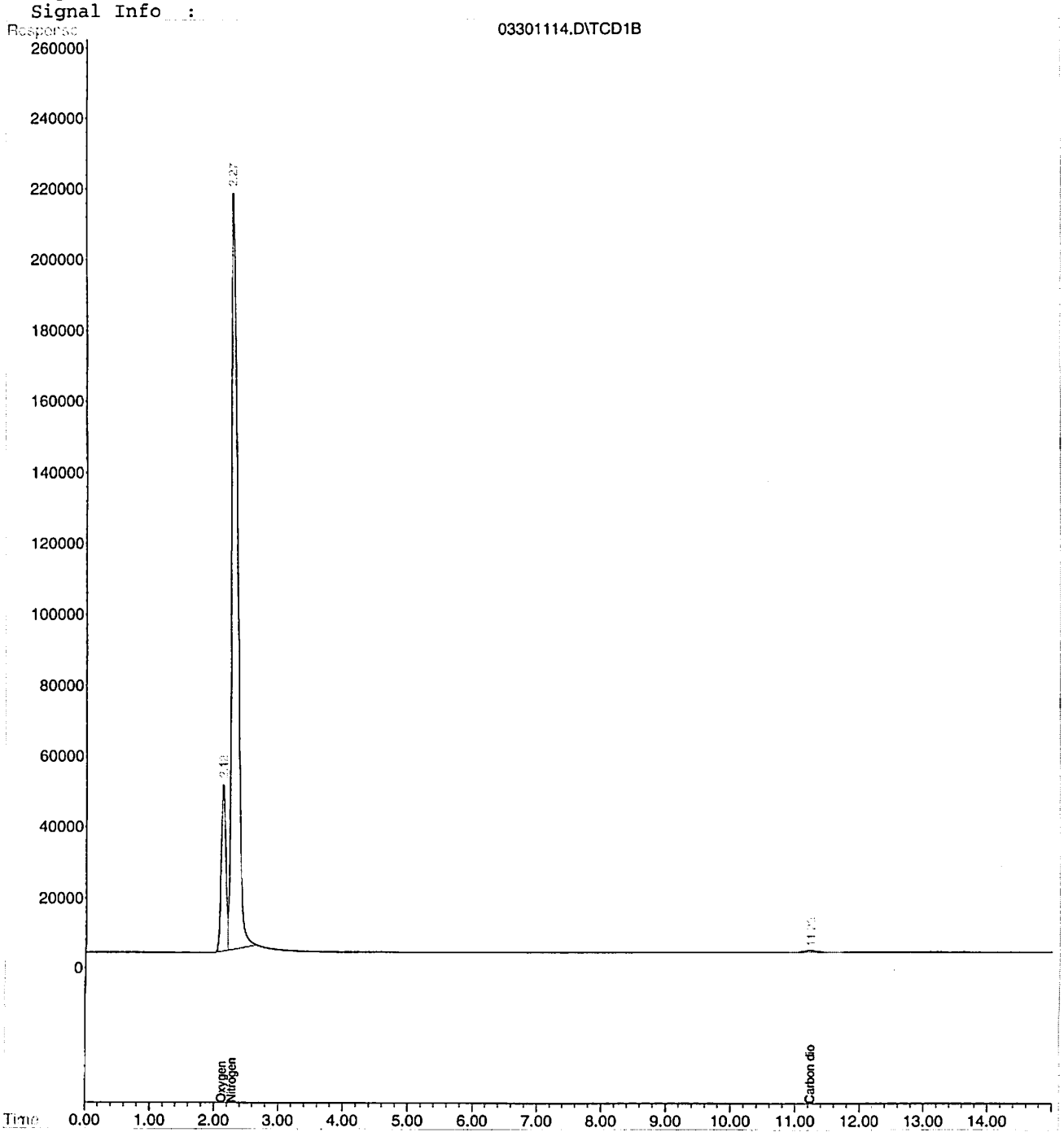
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2355168	15.067	%
2)	Nitrogen	2.28	14085112	80.945	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	76159	0.372	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301114.D Vial: 1
Acq On : 31 Mar 2011 5:27 am Operator:
Sample : 1103609-025b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 5:43 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301115.D Vial: 1
Acq On : 31 Mar 2011 5:46 am Operator:
Sample : 1103609-026b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 7:12 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2525411	16.156	%
2)	Nitrogen	2.28	13685413	78.648	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	207741	1.015	%

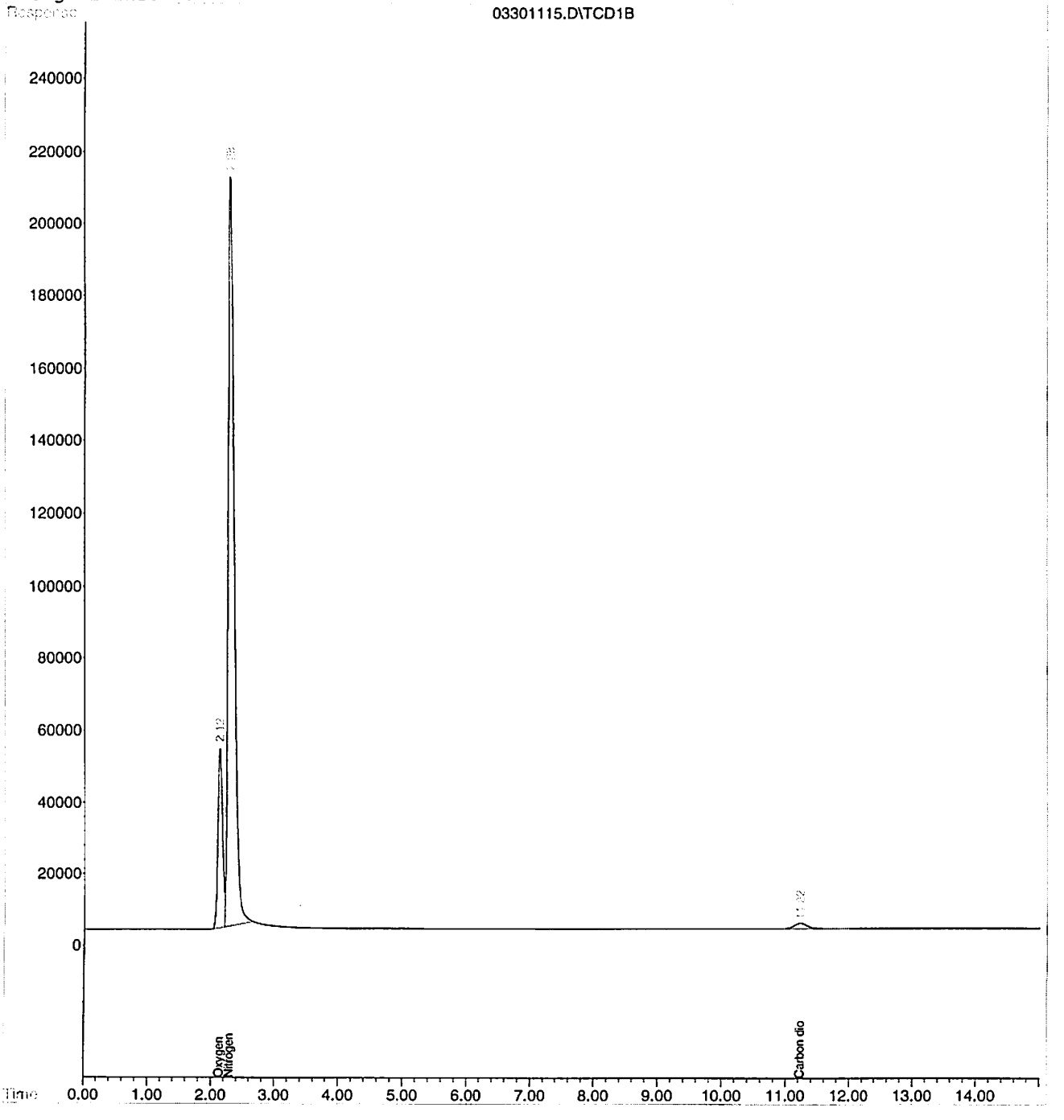
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301115.D Vial: 1
Acq On : 31 Mar 2011 5:46 am Operator:
Sample : 1103609-026b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 7:12 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301116.D Vial: 1
Acq On : 31 Mar 2011 6:05 am Operator:
Sample : 1103609-027b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 7:12 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2667106	17.063	%
2)	Nitrogen	2.28	13510407	77.642	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.22	161973	0.791	%

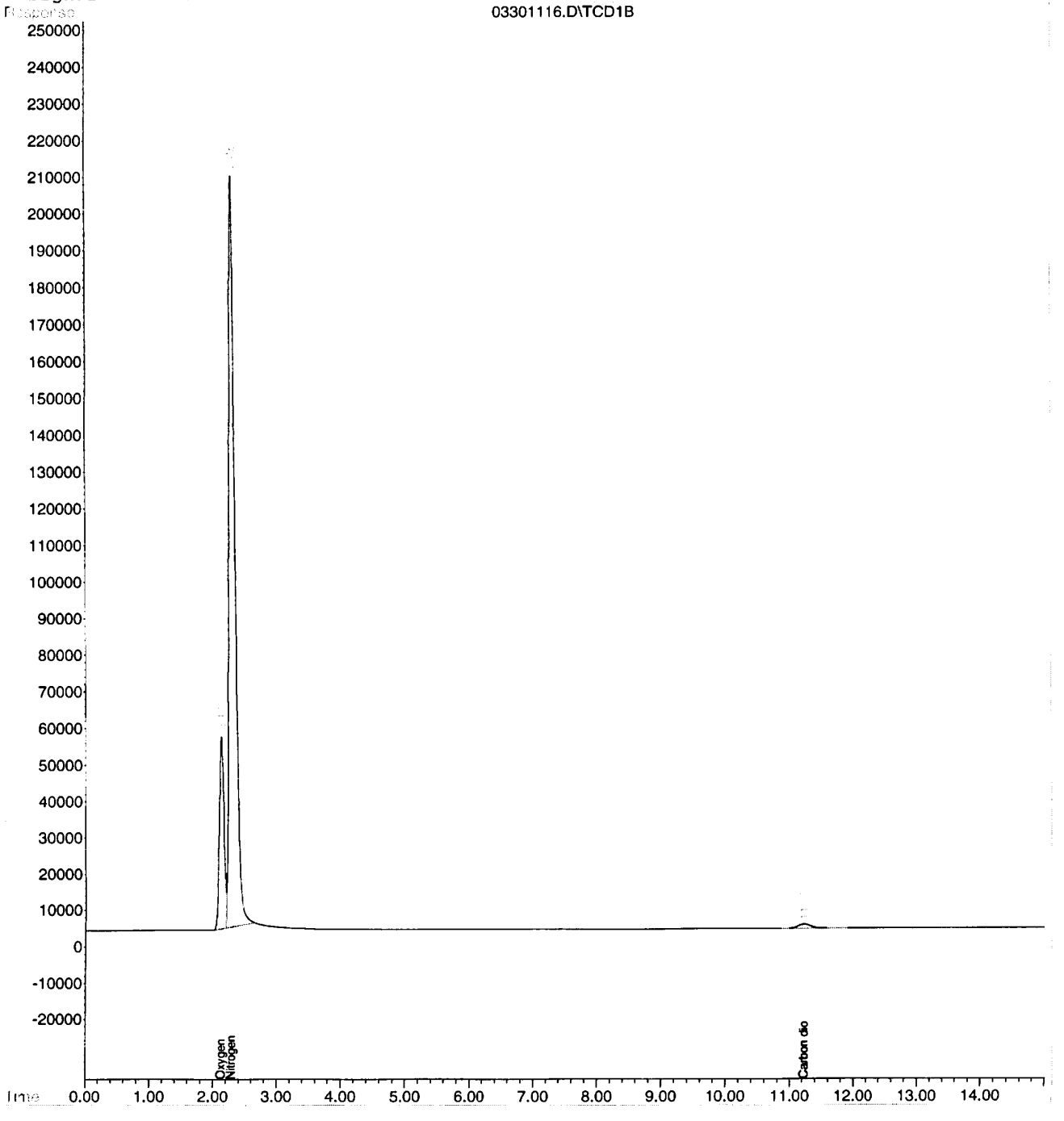
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301116.D Vial: 1
Acq On : 31 Mar 2011 6:05 am Operator:
Sample : 1103609-027b Inst : GC/TCD
Misc : SAMP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 7:12 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301117.D Vial: 1
Acq On : 31 Mar 2011 6:29 am Operator:
Sample : 1103609-027bdup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 7:13 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.12	2686772	17.188	%
2)	Nitrogen	2.28	13612171	78.227	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	11.23	162788	0.795	%

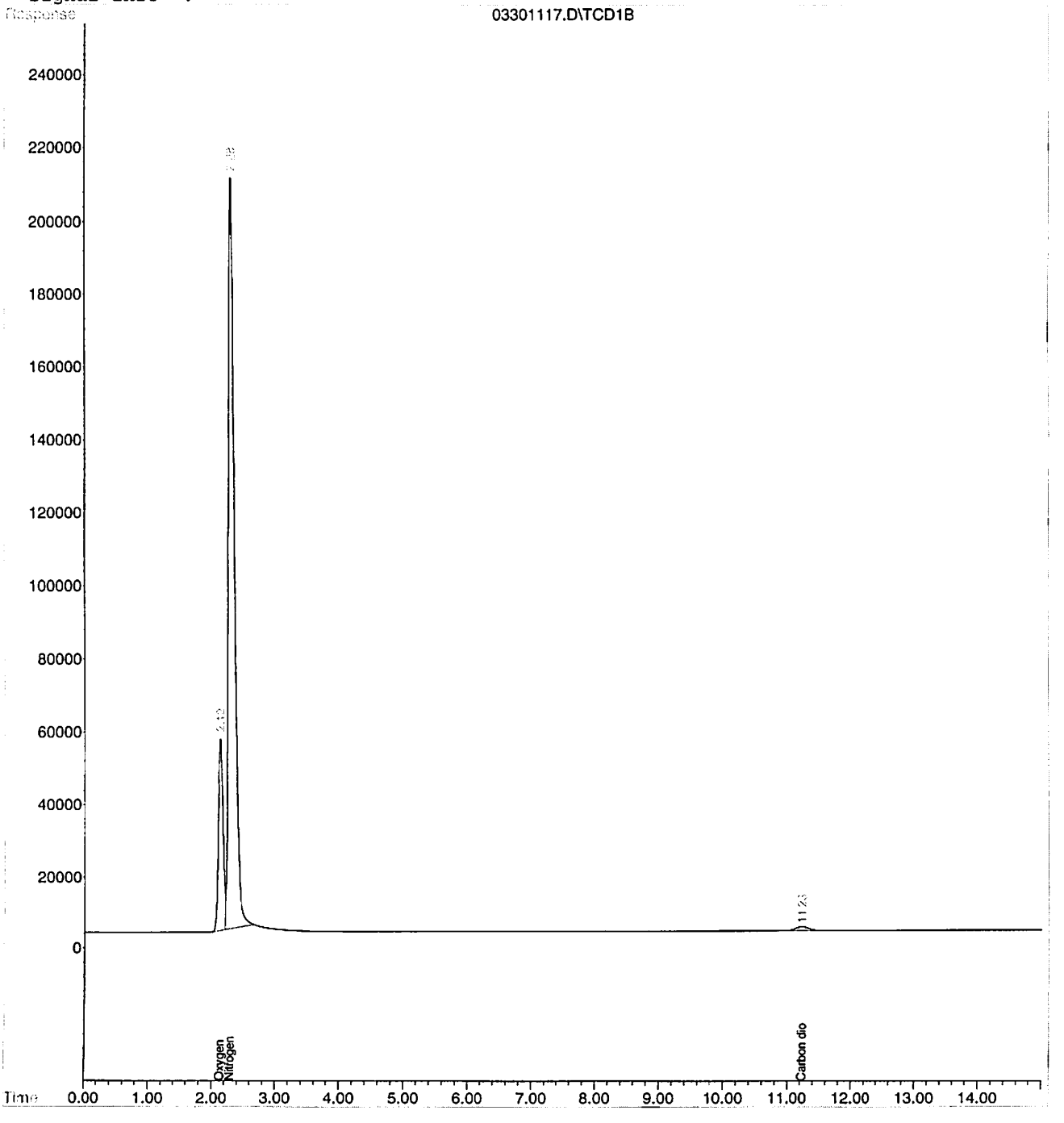
(f)=RT Delta > 1/2 Window (m)=manual int.
03301117.D 030511.M Sun Apr 17 14:42:09 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301117.D Vial: 1
Acq On : 31 Mar 2011 6:29 am Operator:
Sample : 1103609-027bdup Inst : GC/TCD
Misc : DUP ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 7:13 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\033011\03301118.D Vial: 1
Acq On : 31 Mar 2011 8:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	0.080	0.092	-15.0	119	0.02
2	Nitrogen	1.390	1.596	-14.8	139	0.01
3	Carbon Monoxide	0.140	0.162	-15.7	142	0.00
4	Methane	0.090	0.104	-15.6	143	-0.03
5	Carbon dioxide	0.300	0.332	-10.7	116	-0.02

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\033011\03301118.D Vial: 1
Acq On : 31 Mar 2011 8:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051107.D 030511.M Sun Apr 17 14:42:23 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301118.D Vial: 1
Acq On : 31 Mar 2011 8:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 8:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.12	14361	0.092 %
2)	Nitrogen	2.30	277783	1.596 %
3)	Carbon Monoxide	2.99	26670	0.162 %
4)	Methane	6.21	14329	0.104 %
5)	Carbon dioxide	11.16	67926	0.332 %

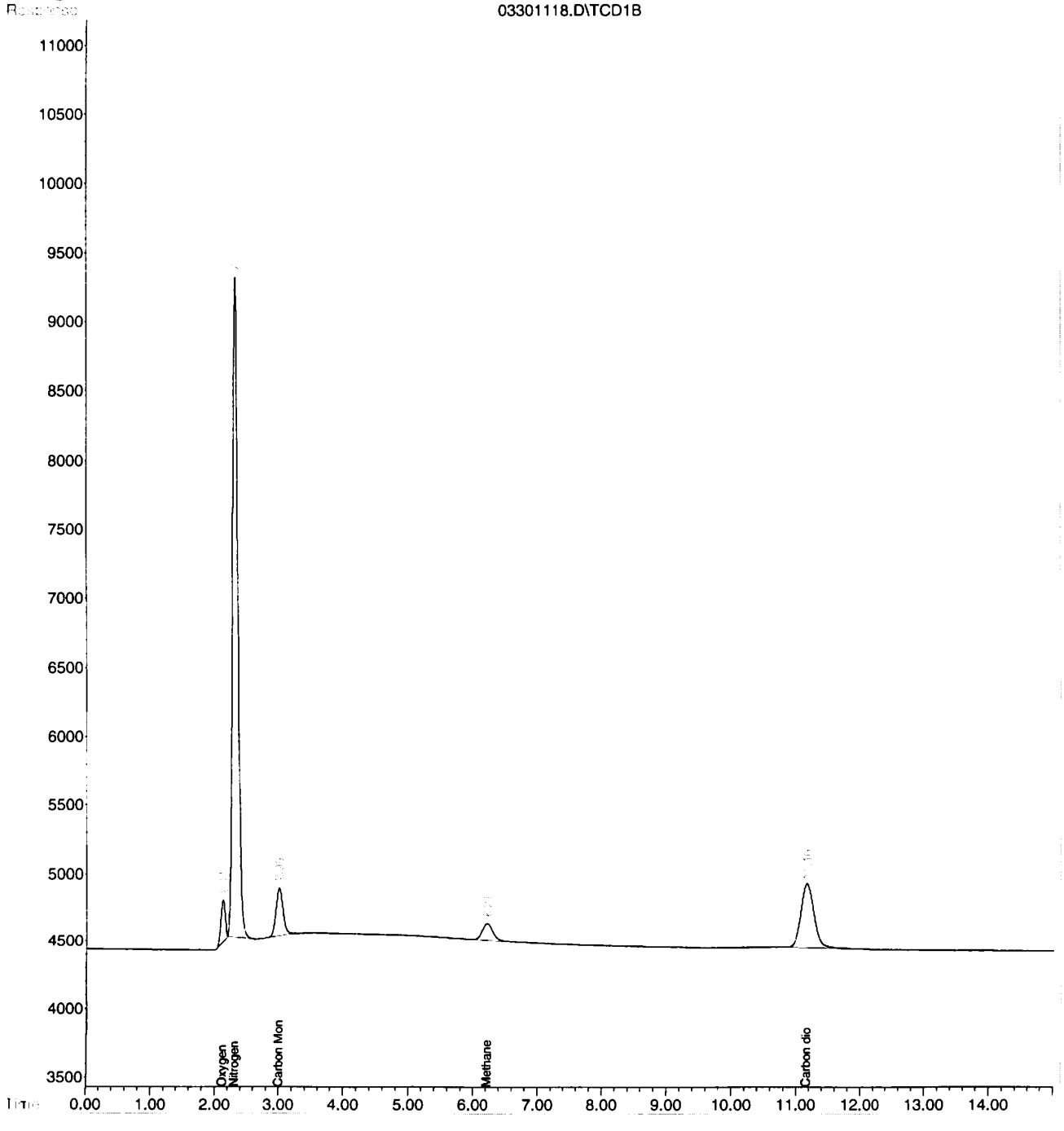
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301118.D Vial: 1
Acq On : 31 Mar 2011 8:07 am Operator:
Sample : crql std 2% b Inst : GC/TCD
Misc : CRQL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 8:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\033011\03301119.D Vial: 1
Acq On : 31 Mar 2011 8:53 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.402	3.9	0	0.02
2	Nitrogen	2.500	2.861	-14.4	0	0.02
3	Carbon Monoxide	2.500	2.376	5.0	0	0.00
4	Methane	2.000	1.842	7.9	0	-0.03
5	Carbon dioxide	2.500	2.193	12.3	0	0.00

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\033011\03301119.D Vial: 1
Acq On : 31 Mar 2011 8:53 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:42:35 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\033011\03301119.D Vial: 1
Acq On : 31 Mar 2011 8:53 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 31 22:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

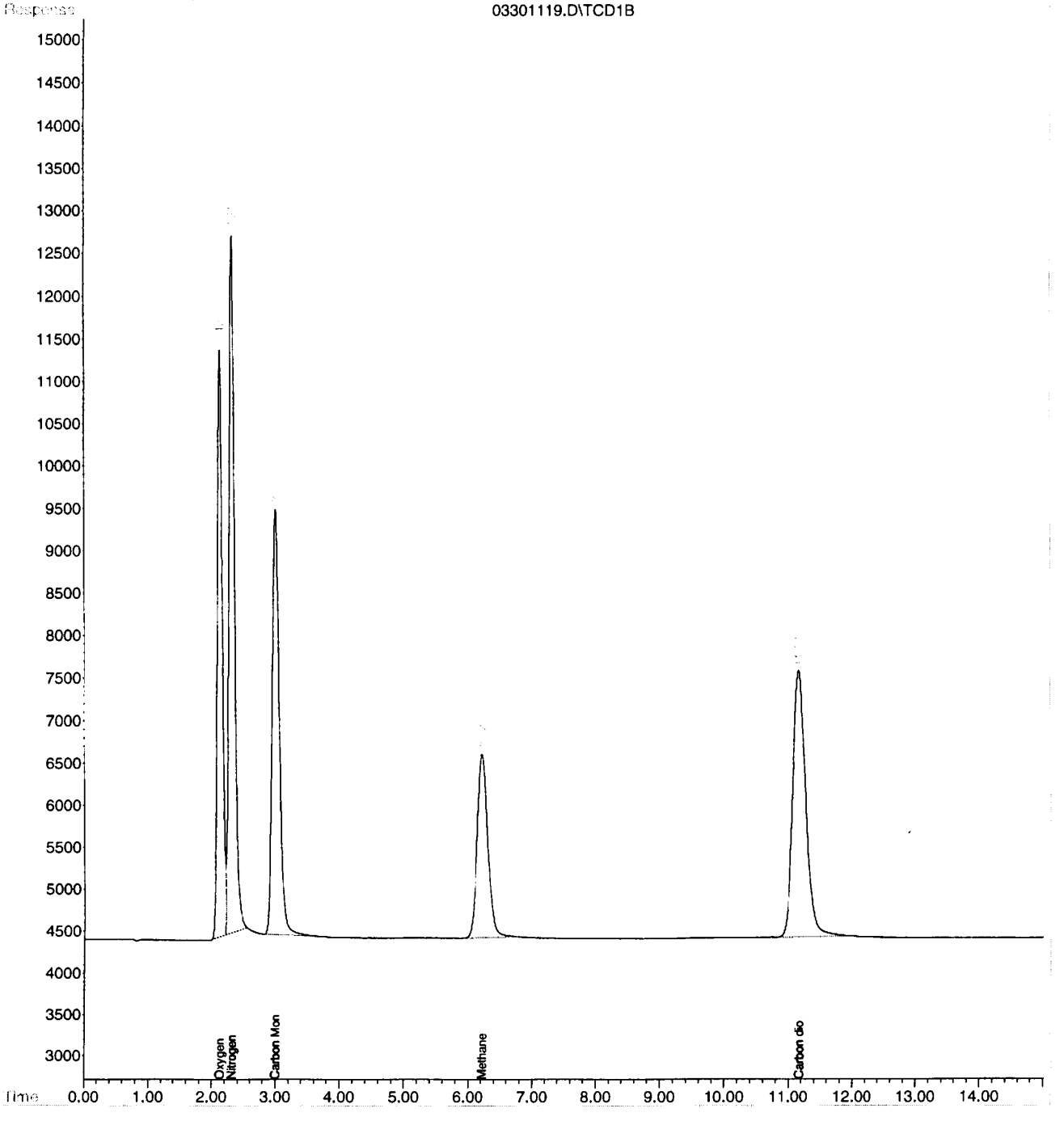
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.12	375411	2.402 %
2)	Nitrogen	2.31	497831	2.861 %
3)	Carbon Monoxide	3.00	390695	2.376 %
4)	Methane	6.22	253659	1.842 %
5)	Carbon dioxide	11.17	448898	2.193 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\033011\03301119.D Vial: 1
Acq On : 31 Mar 2011 8:53 am Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 31 22:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed Mar 30 08:33:13 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Injection Log

Directory: C:\HPCHEM\2\DATA\030511

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	03051101.d	1.	icb	ICB ASTM-D2504	5 Mar 2011 01:04
2	2	03051102.D	1.	STD 100%	ICAL ASTM-D2504	5 Mar 2011 01:52
3	3	03051103.D	1.	STD 80%	ICAL ASTM-D2504	5 Mar 2011 02:17
4	4	03051104.D	1.	STD 60%	ICAL ASTM-D2504	5 Mar 2011 02:43
5	5	03051105.D	1.	STD 40%	ICAL ASTM-D2504	5 Mar 2011 03:10
6	6	03051106.D	1.	STD 20%	ICAL ASTM-D2504	5 Mar 2011 03:31
7	10	03051107.d	1.	STD 2%	ICAL ASTM-D2504	5 Mar 2011 05:40
8	1	03051108.d	1.	N2 100%	ICAL ASTM-D2504	5 Mar 2011 06:29
9	1	03051109.d	1.	O2 50%	ICAL ASTM-D2504	5 Mar 2011 07:41
10	1	03051110.d	1.	ICV STD 1-2	ICAL ASTM-D2504	5 Mar 2011 08:05
11	2	03051111.D	1.	OFF	ICAL ASTM-D2504	5 Mar 2011 08:33

Response Factor Report GC/TCD

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011

Calibration Files
1 =03051102.D 2 =03051103.D 3 =03051104.D
4 =03051105.D 5 =03051106.D 6 =03051107.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1)	Oxygen	1.450	1.444	1.427	1.365	1.324	1.502	1.440 E5	5.59
2)	Nitrogen	1.748	1.695	1.678	1.586	1.522	1.436	1.635 E5	7.62
3)	Carbon Monoxide	1.690	1.628	1.621	1.517	1.472	1.346	1.546 E5	8.17
4)	Methane	1.422	1.364	1.344	1.267	1.212	1.113	1.287 E5	8.76
5)	Carbon dioxide	2.121	2.009	2.012	1.874	1.813	1.946	1.963 E5	5.60

(#) = Out of Range ### Number of calibration levels exceeded format ###

030511.M Tue Mar 29 09:52:14 2011

Compound List Report GC/TCD

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
Total Cpnds : 5

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1		Oxygen	2.10	1.000	LO	A	R
2		Nitrogen	2.29	1.000	LO	A	R
3		Carbon Monoxide	2.99	1.000	LO	A	R
4		Methane	6.25	1.000	LO	A	R
5		Carbon dioxide	11.18	1.000	LO	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

030511.M Tue Mar 29 09:53:41 2011

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051101.D Vial: 2
Acq On : 5 Mar 2011 1:04 am Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 1:19 2011 Quant Results File: TCD.RES

Quant Method : C:\HPCHEM\2\METHODS\TCD.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 05 02:24:54 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Hydrogen	0.00	0	N.D.	%
2)	Oxygen	0.00	0	N.D.	%
3)	Nitrogen	0.00	0	N.D.	%
4)	Carbon Monoxide	0.00	0	N.D.	%
5)	Methane	0.00	0	N.D.	%
6)	Carbon dioxide	0.00	0	N.D.	%

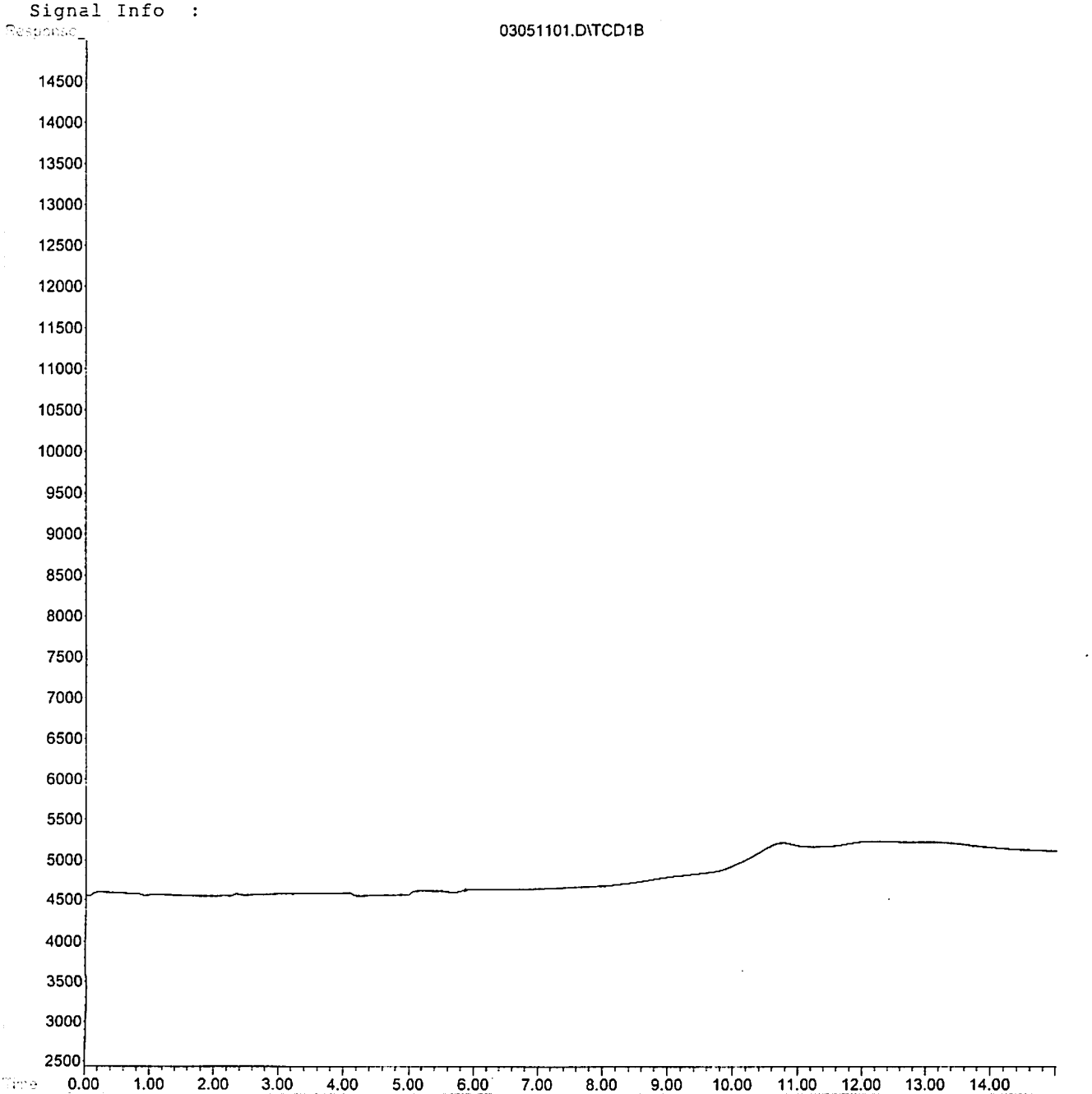
(f)=RT Delta > 1/2 Window (m)=manual int.
03051101.D 030511.M Tue Mar 29 09:49:59 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051101.D Vial: 2
Acq On : 5 Mar 2011 1:04 am Operator:
Sample : icb Inst : GC/TCD
Misc : ICB ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 1:19 2011 Quant Results File: TCD.RES

Quant Method : C:\HPCHEM\2\METHODS\TCD.M (Chemstation Integrator)
Title :
Last Update : Wed Jan 05 02:24:54 2011
Response via : Single Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051102.D Vial: 2
Acq On : 5 Mar 2011 1:52 am Operator:
Sample : STD 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 2:11 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.13	581508	4.010 %
2)	Nitrogen	2.29	12144985	69.480 %
3)	Carbon Monoxide	3.02	1184988	7.010 %
4)	Methane	6.25	639702	4.500 %
5)	Carbon dioxide	11.16	3181324	15.000 %

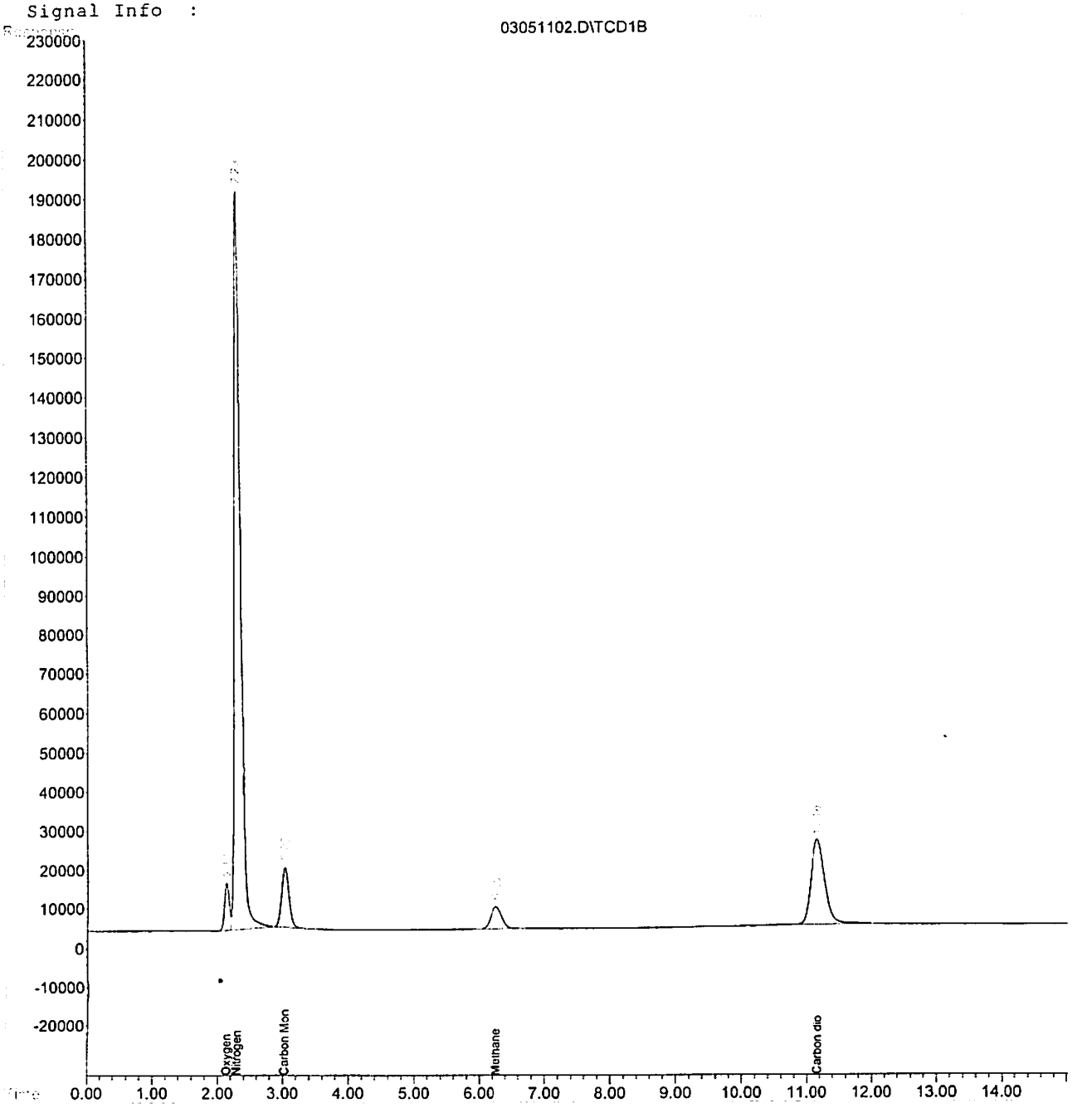
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051102.D Vial: 2
Acq On : 5 Mar 2011 1:52 am Operator:
Sample : STD 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 2:11 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051103.D Vial: 3
Acq On : 5 Mar 2011 2:17 am Operator:
Sample : STD 80% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 2:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

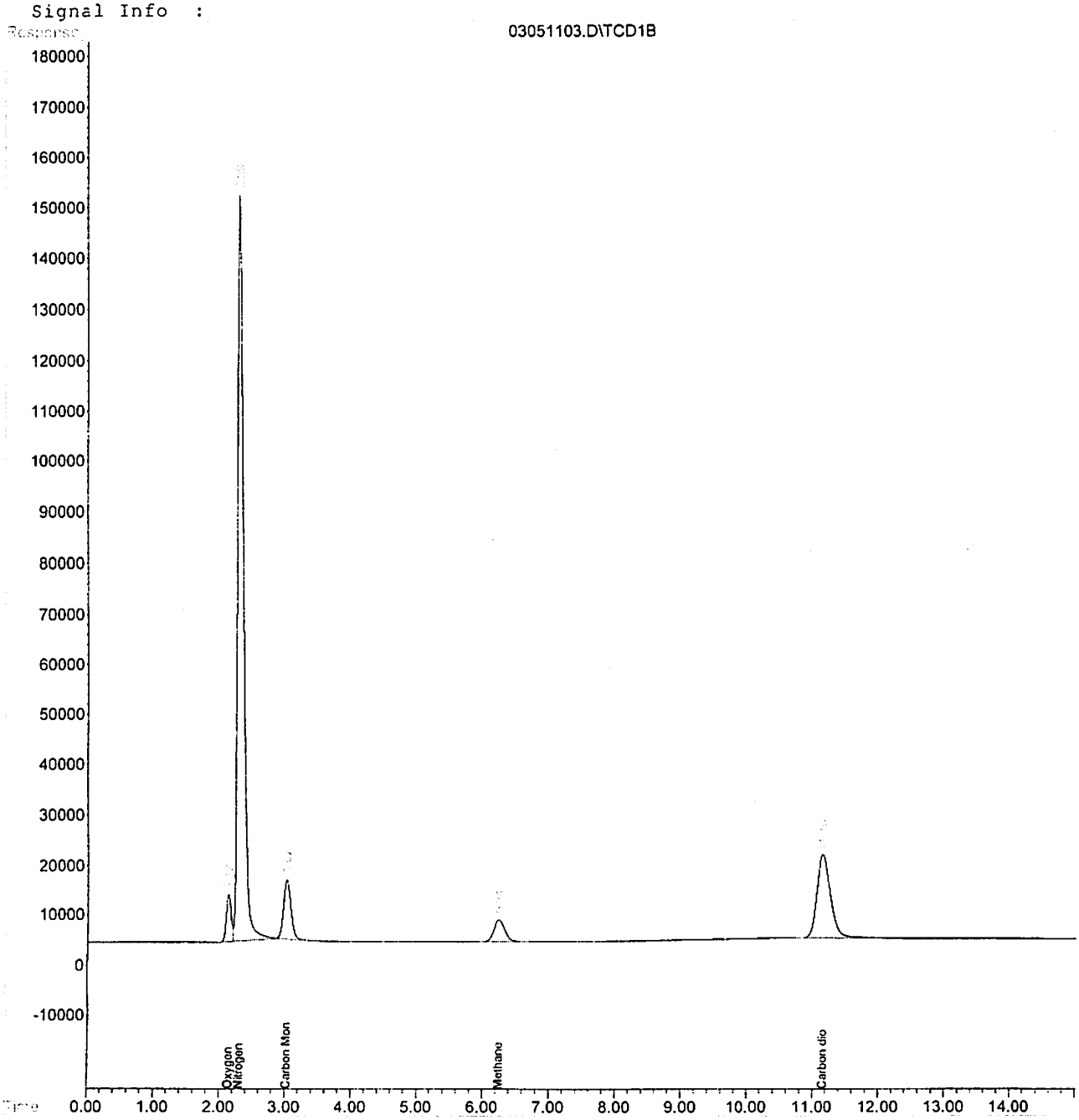
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.13	463310	3.195 %
2)	Nitrogen	2.30	9420045	53.891 %
3)	Carbon Monoxide	3.02	913157	5.402 %
4)	Methane	6.24	491119	3.455 %
5)	Carbon dioxide	11.16	2411152	11.369 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051103.D Vial: 3
Acq On : 5 Mar 2011 2:17 am Operator:
Sample : STD 80% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 2:38 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051104.D Vial: 4
Acq On : 5 Mar 2011 2:43 am Operator:
Sample : STD 60% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 3:05 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.13	343431	2.368 %
2)	Nitrogen	2.30	6993706	40.010 %
3)	Carbon Monoxide	3.01	681654	4.032 %
4)	Methane	6.24	362878	2.553 %
5)	Carbon dioxide	11.16	1810908	8.538 %

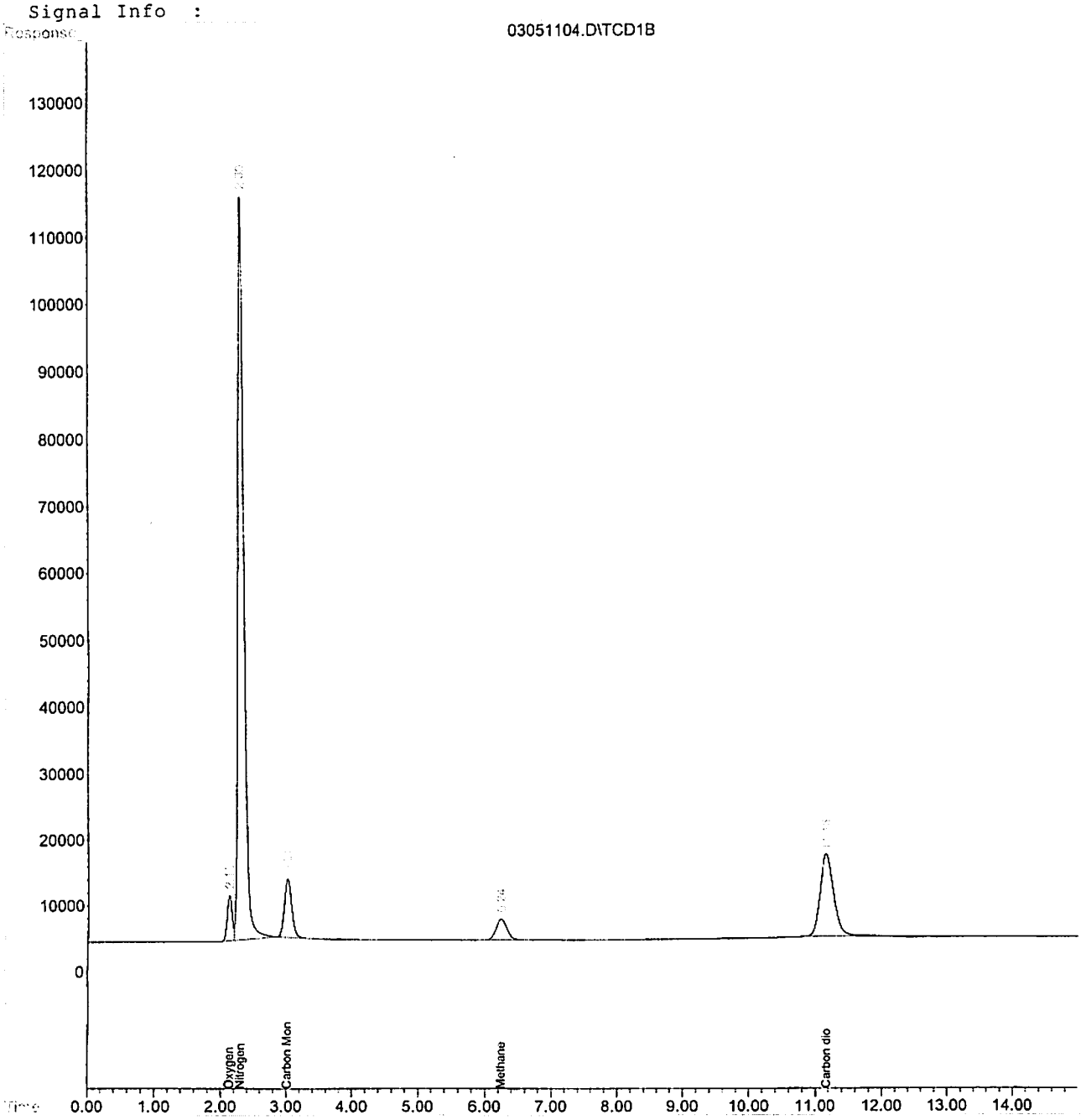
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051104.D Vial: 4
Acq On : 5 Mar 2011 2:43 am Operator:
Sample : STD 60% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 3:05 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051105.D Vial: 5
Acq On : 5 Mar 2011 3:10 am Operator:
Sample : STD 40% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 3:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

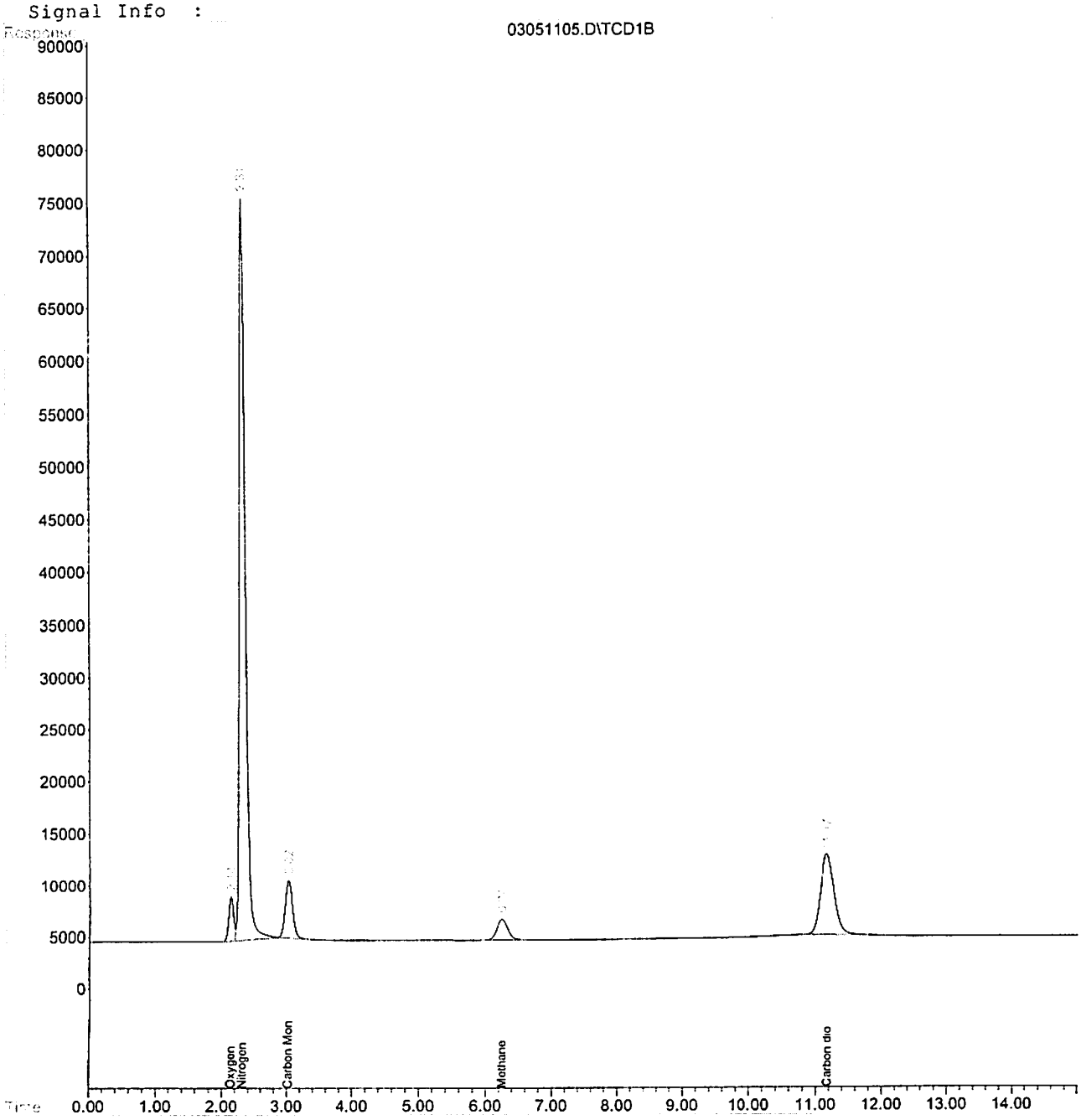
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	218905	1.510 %
2)	Nitrogen	2.31	4406717	25.210 %
3)	Carbon Monoxide	3.02	425448	2.517 %
4)	Methane	6.24	227971	1.604 %
5)	Carbon dioxide	11.17	1124243	5.301 %

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051105.D Vial: 5
Acq On : 5 Mar 2011 3:10 am Operator:
Sample : STD 40% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 3:26 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051106.D Vial: 6
Acq On : 5 Mar 2011 3:31 am Operator:
Sample : STD 20% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 3:47 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	106219	0.732 %
2)	Nitrogen	2.33	2115642	12.103 %
3)	Carbon Monoxide	3.03	206340	1.221 %
4)	Methane	6.25	109069	0.767 %
5)	Carbon dioxide	11.18	543812	2.564 %

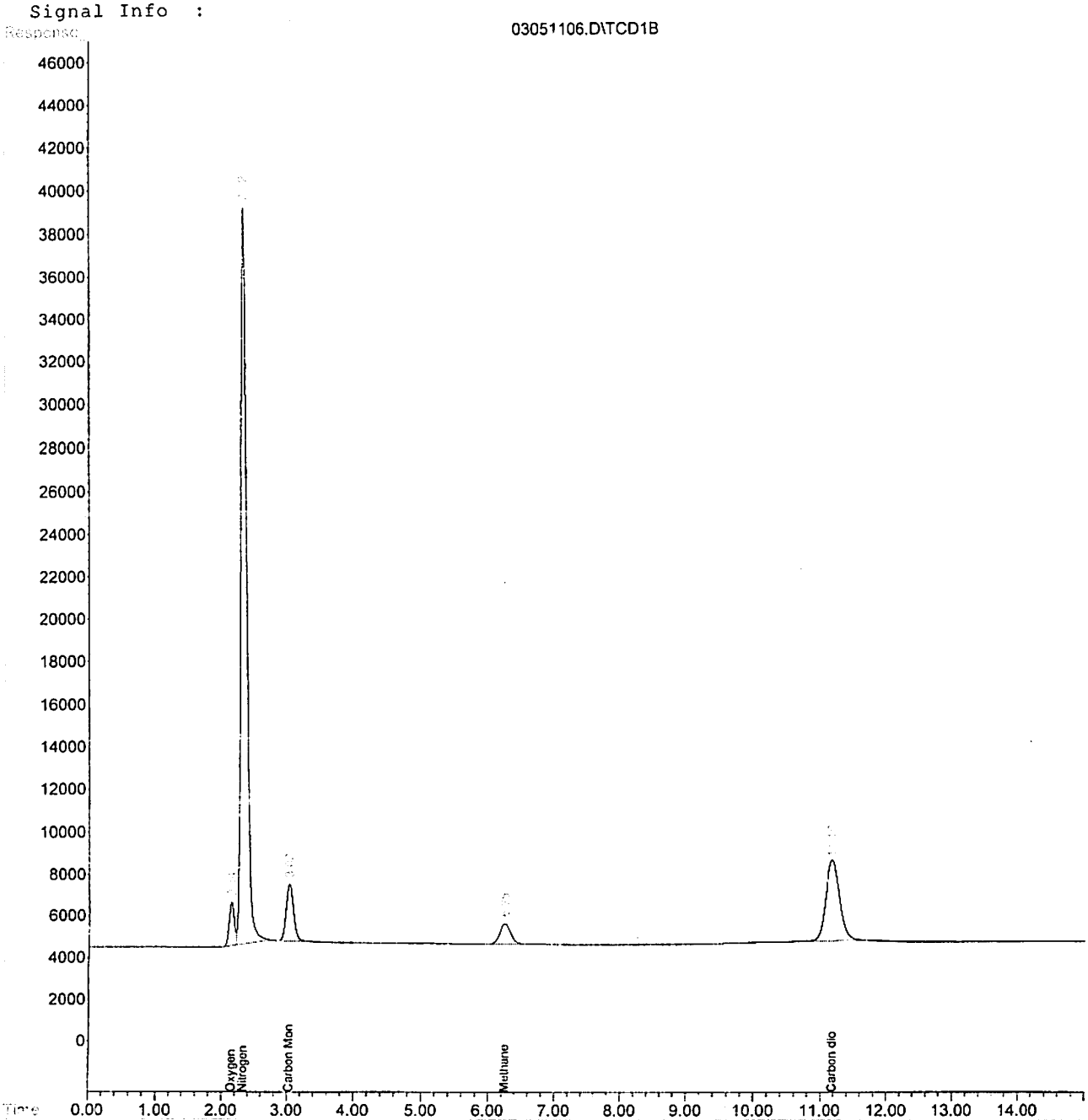
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051106.D Vial: 6
Acq On : 5 Mar 2011 3:31 am Operator:
Sample : STD 20% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 3:47 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 01:22:06 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051107.D Vial: 10
Acq On : 5 Mar 2011 5:40 am Operator:
Sample : STD 2% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 6:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 04:19:26 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	12019	0.084 %
2)	Nitrogen	2.33	199576	1.170 %
3)	Carbon Monoxide	3.02	18840	0.115 %
4)	Methane	6.25	10019	0.073 %
5)	Carbon dioxide	11.18	58393	0.285 %

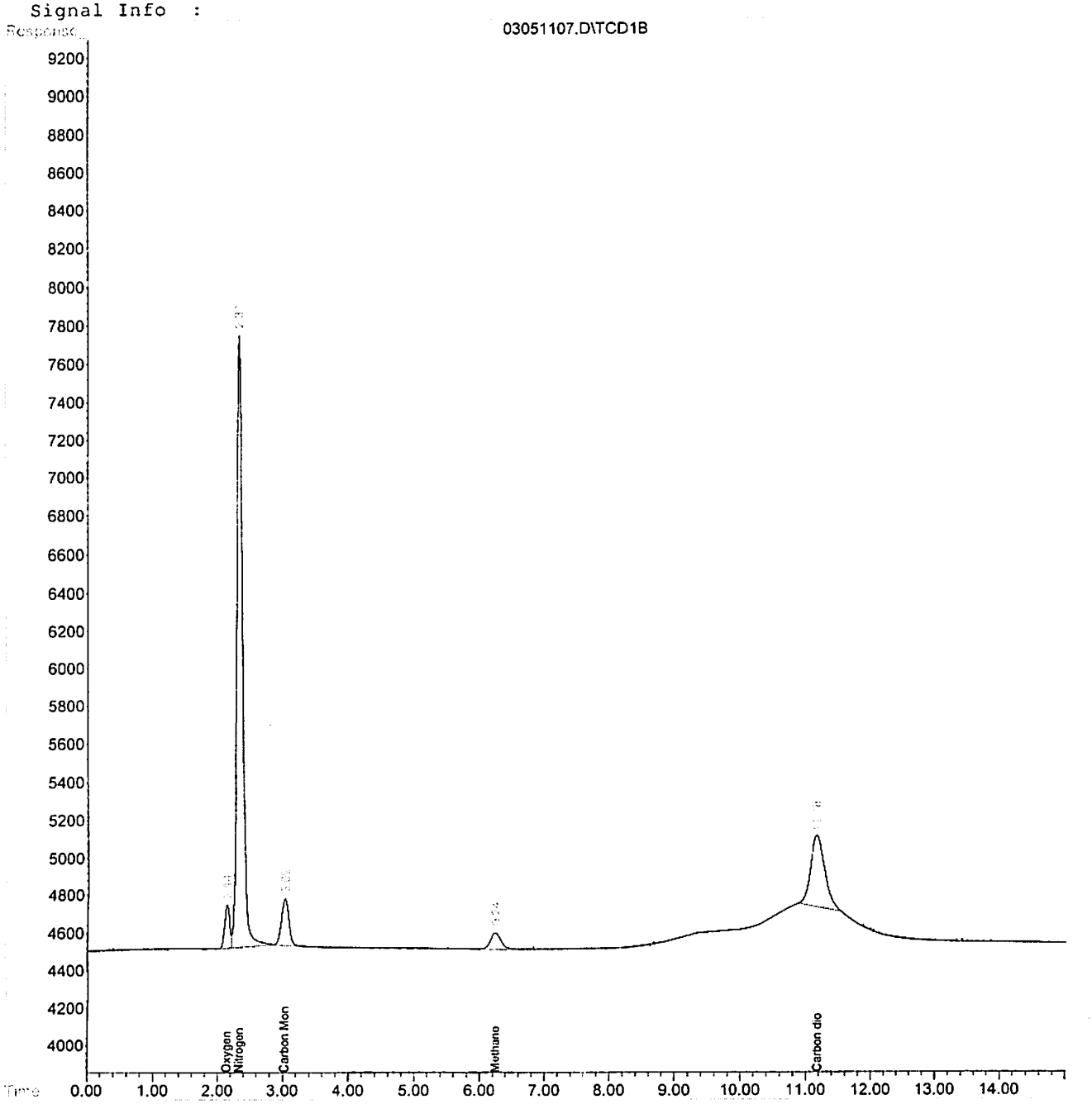
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051107.D Vial: 10
Acq On : 5 Mar 2011 5:40 am Operator:
Sample : STD 2% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 6:17 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 04:19:26 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051108.D Vial: 1
Acq On : 5 Mar 2011 6:29 am Operator:
Sample : N2 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 7:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

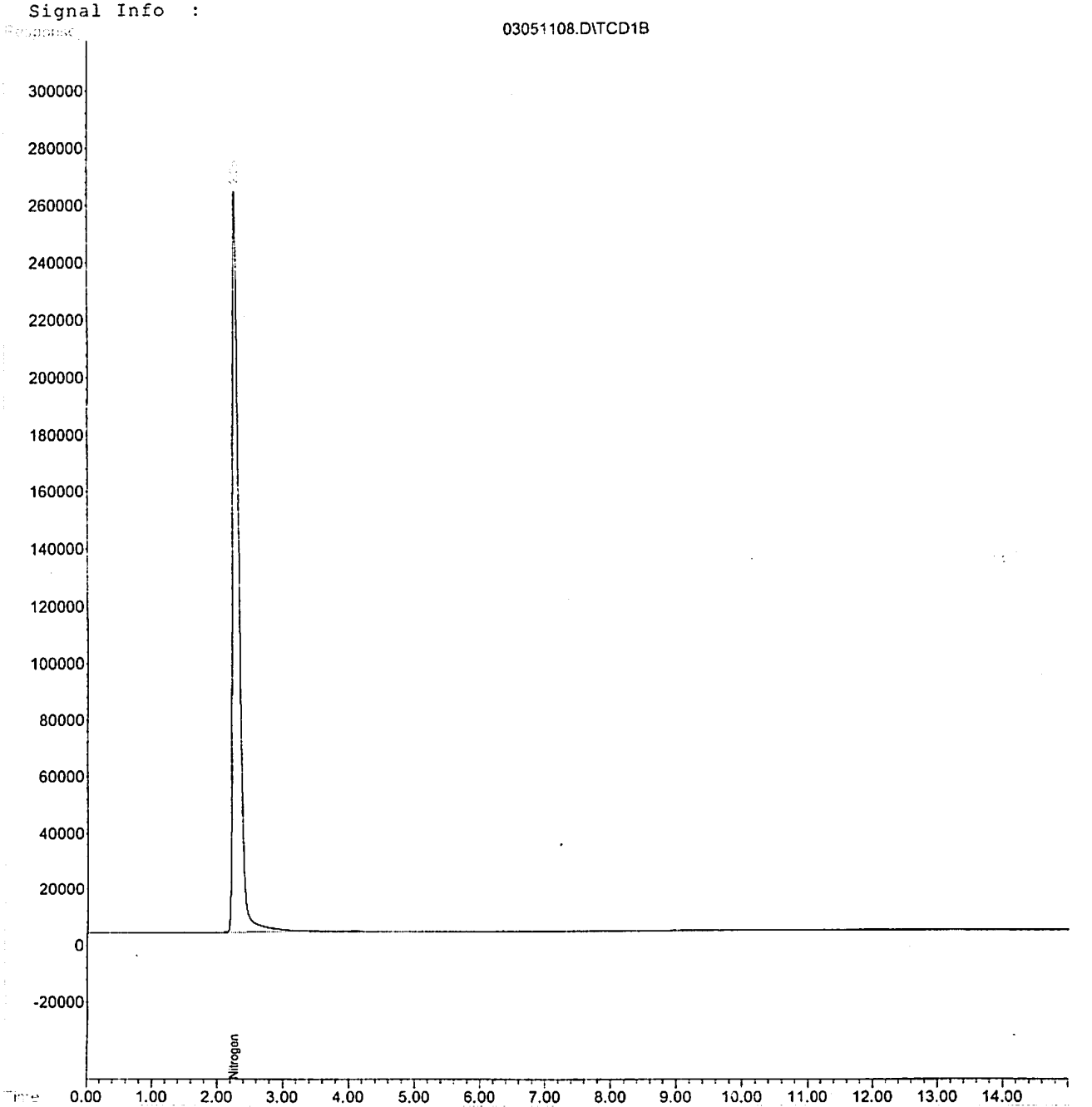
	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	0.00	0	N.D.	%
2)	Nitrogen	2.25	17773276	104.238	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051108.D Vial: 1
Acq On : 5 Mar 2011 6:29 am Operator:
Sample : N2 100% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 7:02 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051109.D Vial: 1
Acq On : 5 Mar 2011 7:41 am Operator:
Sample : O2 50% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 5 7:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1)	Oxygen	2.11	7824603	54.481	%
2)	Nitrogen	0.00	0	N.D.	%
3)	Carbon Monoxide	0.00	0	N.D.	%
4)	Methane	0.00	0	N.D.	%
5)	Carbon dioxide	0.00	0	N.D.	%

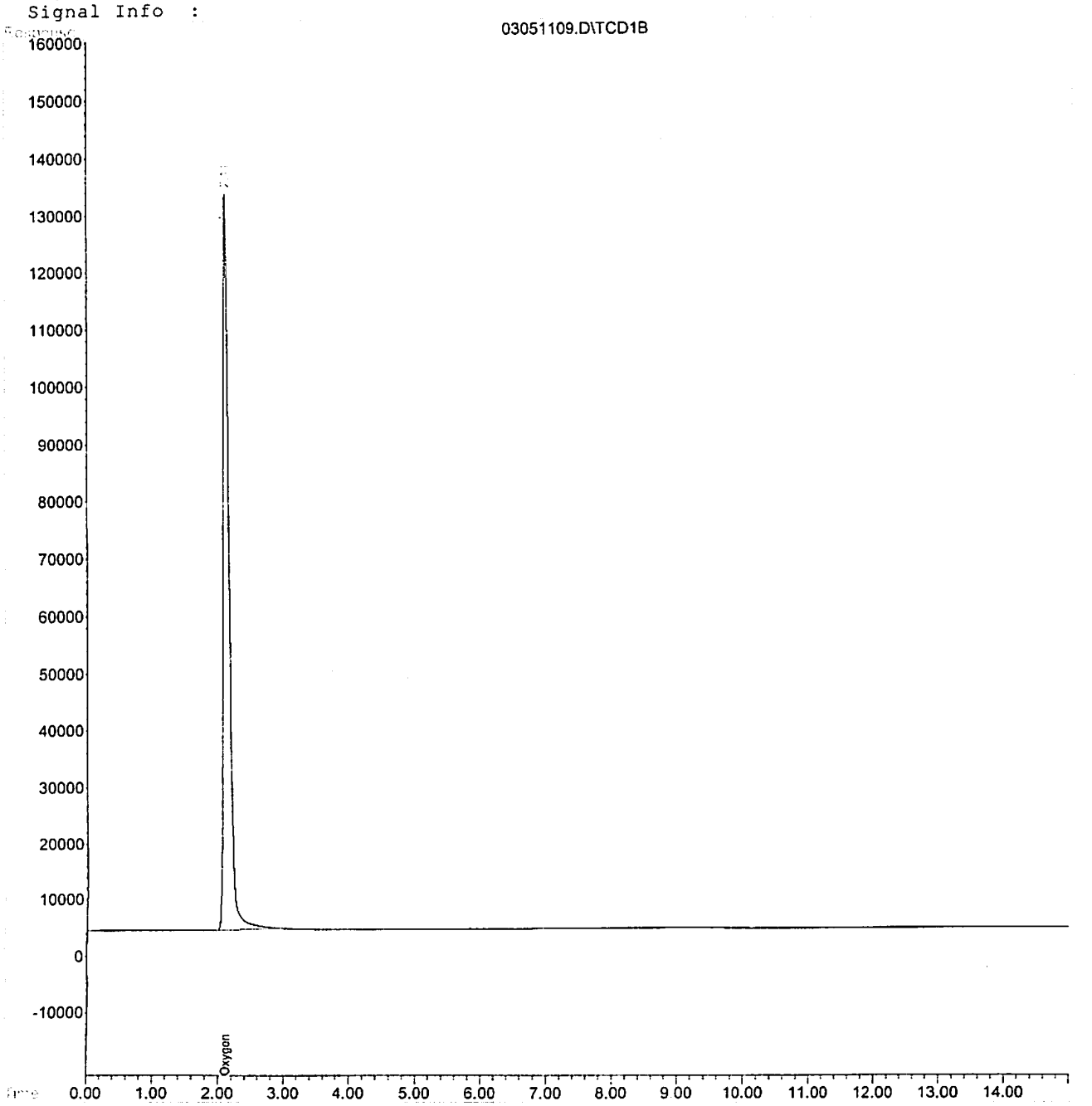
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511\03051109.D Vial: 1
Acq On : 5 Mar 2011 7:41 am Operator:
Sample : O2 50% Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Mar 5 7:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Sat Mar 05 07:02:15 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.445	2.2	0	0.04
2	Nitrogen	2.500	2.865	-14.6	0	0.04
3	Carbon Monoxide	2.500	2.500	0.0	0	0.03
4	Methane	2.000	2.002	-0.1	0	0.00
5	Carbon dioxide	2.500	2.350	6.0	0	0.00

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Sun Apr 17 14:31:06 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Apr 17 14:30 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

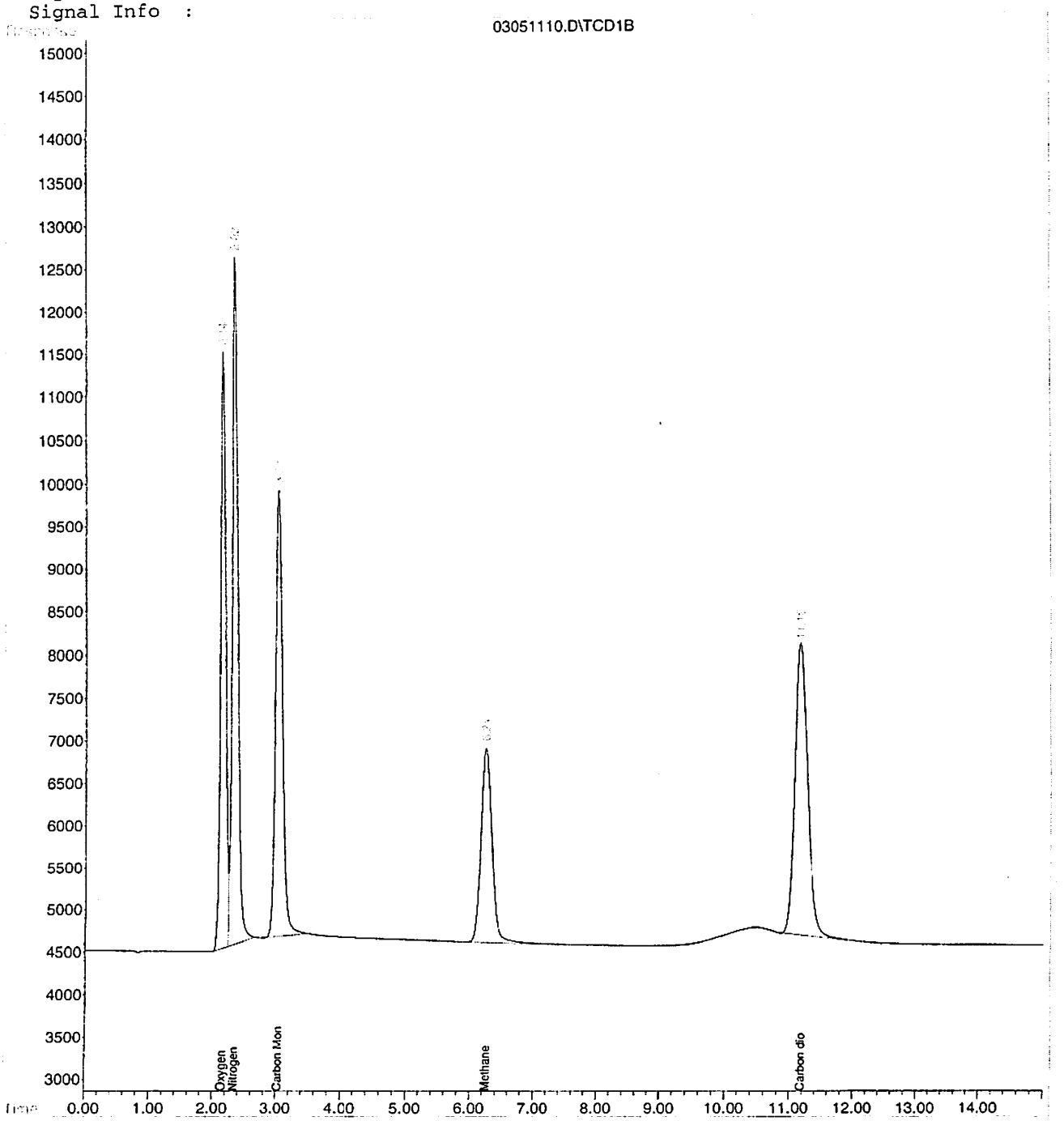
Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.14	382173	2.445 %
2)	Nitrogen	2.33	498448	2.865 %
3)	Carbon Monoxide	3.02	411158	2.500 %
4)	Methane	6.25	275619	2.002 %
5)	Carbon dioxide	11.18	481001	2.350 %

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\030511D\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Apr 17 14:30 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu Mar 24 15:04:37 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :