TRIMATRIX LABORATORIES

# SECTION - E

# GC SEMI-VOLATILE ORGANICS

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Individual sample results relate only to the sample tested.

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## STATEMENT OF DATA QUALIFICATIONS

## EDB and DBCP by EPA Method 8011

**Qualification:** The quality control batch(s), associated with the following samples and analyses, do not contain an MS/MSD or MS/DUP due to insufficient sample volumes. An LCS and LCSD were analyzed as the measure of batch precision and accuracy.

Analysis: USEPA-8011

Sample/Analyte:
1204091-01 KAFB-003
1204205-01 106042
1204205-02 106089
1204329-01 106058

TriMatrix Laboratories, Inc.

TechLaw

Project: KNM

SDG: KNM040512

USEPA-8011

# SAMPLE ID SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM040512

Client: TechLaw

Project: KNM

| Client Sample Id: | Lab Sample Id: |
|---|---|
| KAFB-003 | 1204091-01 |
| 106042 | 1204205-01 |
| 106089 | 1204205-02 |
| 106058 | 1204329-01 |
| 106053 | 1204454-01 |
| 106054 | 1204454-02 |

# ANALYSIS BATCH (SEQUENCE) SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2D17019

SDG: KNM040512
Project: KNM
Calibration: 2D17008
Instrument: 158

| Sample Name | Lab Sample ID | Lab File ID | Analysis Date/Time |
|---|---|---|---|
| Cal Standard | 2D17019-CAL1 | AAPR291-0 | 04/16/12 13:12 |
| Cal Standard | 2D17019-CAL2 | AAPR292-0 | 04/16/12 13:40 |
| Cal Standard | 2D17019-CAL3 | AAPR293-0 | 04/16/12 14:08 |
| Cal Standard | 2D17019-CAL4 | AAPR294-0 | 04/16/12 14:36 |
| Cal Standard | 2D17019-CAL5 | AAPR295-0 | 04/16/12 15:04 |
| Cal Standard | 2D17019-CAL6 | AAPR296-0 | 04/16/12 15:32 |
| Secondary Cal Check | 2D17019-SCV1 | AAPR297-0 | 04/16/12 16:01 |
| Blank | 1204486-BLK1 | AAPR298-0 | 04/16/12 16:29 |
| LCS | 1204486-BS1 | AAPR299-0 | 04/16/12 16:58 |
| LCS Dup | 1204486-BSD1 | AAPR300-0 | 04/16/12 17:26 |
| KAFB-003 | 1204091-01 | AAPR301-0 | 04/16/12 17:54 |
| 106042 | 1204205-01 | AAPR302-0 | 04/16/12 18:22 |
| 106089 | 1204205-02 | AAPR303-0 | 04/16/12 18:50 |
| Calibration Check | 2D17019-CCV1 | AAPR308-0 | 04/16/12 21:11 |

# ANALYSIS BATCH (SEQUENCE) SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2D25008

SDG: KNM040512

Project: KNM

Calibration: 2D17008

Instrument: 158

| Sample Name | Lab Sample ID | Lab File ID | Analysis Date/Time |
|---|---|---|---|
| Calibration Check | 2D25008-CCV1 | AAPR399-0 | 04/24/12 15:52 |
| Blank | 1205087-BLK1 | AAPR400-0 | 04/24/12 16:21 |
| LCS | 1205087-BS1 | AAPR401-0 | 04/24/12 16:49 |
| LCS Dup | 1205087-BSD1 | AAPR402-0 | 04/24/12 17:17 |
| 106058 | 1204329-01 | AAPR403-0 | 04/24/12 17:46 |
| Calibration Check | 2D25008-CCV2 | AAPR405-0 | 04/24/12 18:42 |

# ANALYSIS BATCH (SEQUENCE) SUMMARY
## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2E07013

SDG: KNM040512
Project: KNM
Calibration: 2D17008
Instrument: 158

| Sample Name | Lab Sample ID | Lab File ID | Analysis Date/Time |
|---|---|---|---|
| Calibration Check | 2E07013-CCV1 | AMAY027-0 | 05/04/12 10:03 |
| Blank | 1205560-BLK1 | AMAY028-0 | 05/04/12 10:31 |
| LCS | 1205560-BS1 | AMAY029-0 | 05/04/12 10:59 |
| 106053 | 1204454-01 | AMAY030-0 | 05/04/12 11:27 |
| 106054 | 1204454-02 | AMAY031-0 | 05/04/12 11:55 |
| Calibration Check | 2E07013-CCV2 | AMAY038-0 | 05/04/12 15:11 |

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

QC Batch: 1204486

SDG: KNM040512
Project: KNM
Laboratory ID: 1204486-BS1
Preparation: Method-Specific Extraction
Initial/Final: 35 mL / 2 mL
Sequence: 2D17019

| Analyte | Spike Added | LCS Conc. | LCS % Rec. # | QC Limits Rec. | Units |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.343 | 107 | 60 - 140 | ug/L |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205087

SDG: KNM040512

Project: KNM

Laboratory ID: 1205087-BS1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

Sequence: 2D25008

| Analyte | Spike Added | LCS Conc. | LCS % Rec. # | QC Limits Rec. | Units |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.360 | 112 | 60 - 140 | ug/L |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM040512

Project: KNM

Laboratory ID: 1205560-BS1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

QC Batch: 1205560

Sequence: 2E07013

| Analyte | Spike Added | LCS Conc. | LCS % Rec. # | QC Limits Rec. | Units |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.263 | 82 | 60 - 140 | ug/L |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM040512

Project: KNM

Laboratory ID: 1204486-BSD1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

QC Batch: 1204486

Sequence: 2D17019

| Analyte | Spike Added ug/L | LCSD Conc. | LCSD % Rec. # | % RPD # | QC Limits RPD | QC Limits Rec. | Units |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.331 | 104 | 3 | 20 | 60 - 140 | ug/L |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205087

SDG: KNM040512

Project: KNM

Laboratory ID: 1205087-BSD1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

Sequence: 2D25008

| Analyte | Spike Added ug/L | LCSD Conc. | LCSD % Rec. # | % RPD # | QC Limits RPD | QC Limits Rec. | Units |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.349 | 109 | 3 | 20 | 60 - 140 | ug/L |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# METHOD BLANK DATA SHEET
## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1204486-BLK1
File ID: AAPR298-0
Prepared: 04/16/12 09:29
Analyzed: 04/16/12 16:29
Preparation: Method-Specific Extracti
Initial/Final: 35 mL / 2 mL
QC Batch: 1204486
Sequence: 2D17019
Calibration: 2D17008
Instrument: 158

| CAS No. | Analyte | Concentration | Unit | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.050 | ug/L | 0.0078 | 0.050 | U |

# QC BATCH SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM040512

Client: TechLaw

Project: KNM

QC Batch: 1204486 QC Batch Matrix: Water

Preparation: Method-Specific Extraction

| Sample Name | Lab Sample ID | Date Prepared | Observations |
|---|---|---|---|
| KAFB-003 | 1204091-01 | 04/16/12 09:29 | EDB only |
| 106042 | 1204205-01 | 04/16/12 09:29 | EDB only |
| 106089 | 1204205-02 | 04/16/12 09:29 | EDB only |
| Blank | 1204486-BLK1 | 04/16/12 09:29 | |
| LCS | 1204486-BS1 | 04/16/12 09:29 | |
| LCS Dup | 1204486-BSD1 | 04/16/12 09:29 | |

# METHOD BLANK DATA SHEET
## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205087-BLK1
File ID: AAPR400-0
Prepared: 04/24/12 13:36
Analyzed: 04/24/12 16:21
Preparation: Method-Specific Extracti
Initial/Final: 35 mL / 2 mL
QC Batch: 1205087
Sequence: 2D25008
Calibration: 2D17008
Instrument: 158

| CAS No. | Analyte | Concentration | Unit | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.050 | ug/L | 0.0078 | 0.050 | U |

# QC BATCH SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM040512

Client: TechLaw

Project: KNM

QC Batch: 1205087 QC Batch Matrix: Water

Preparation: Method-Specific Extraction

| Sample Name | Lab Sample ID | Date Prepared | Observations |
|---|---|---|---|
| 106058 | 1204329-01 | 04/24/12 13:36 | EDB only |
| Blank | 1205087-BLK1 | 04/24/12 13:36 | |
| LCS | 1205087-BS1 | 04/24/12 13:36 | |
| LCS Dup | 1205087-BSD1 | 04/24/12 13:36 | |

# METHOD BLANK DATA SHEET
## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205560-BLK1
File ID: AMAY028-0
Prepared: 05/04/12 08:27
Analyzed: 05/04/12 10:31
Preparation: Method-Specific Extracti
Initial/Final: 35 mL / 2 mL
QC Batch: 1205560
Sequence: 2E07013
Calibration: 2D17008
Instrument: 158

| CAS No. | Analyte | Concentration | Unit | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.050 | ug/L | 0.0078 | 0.050 | U |

# QC BATCH SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM040512

Client: TechLaw

Project: KNM

QC Batch: 1205560 QC Batch Matrix: Water

Preparation: Method-Specific Extraction

| Sample Name | Lab Sample ID | Date Prepared | Observations |
|---|---|---|---|
| 106053 | 1204454-01 | 05/04/12 08:27 | EDB only |
| 106054 | 1204454-02 | 05/04/12 08:27 | EDB only |
| Blank | 1205560-BLK1 | 05/04/12 08:27 | |
| LCS | 1205560-BS1 | 05/04/12 08:27 | |

# HOLDING TIME SUMMARY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM040512

Client: TechLaw

Project: KNM

Method: EDB and DBCP by EPA Method 8011

| Sample Name | Date Collected | Date Received | Date Leached | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|---|---|---|---|---|---|---|---|---|---|---|
| KAFB-003 | 04/04/12 | 04/05/12 | | 04/16/12 | 12 | 14 | 04/16/12 | 0 | 2 | |
| 106042 | 04/10/12 | 04/11/12 | | 04/16/12 | 6 | 14 | 04/16/12 | 0 | 2 | |
| 106089 | 04/10/12 | 04/11/12 | | 04/16/12 | 6 | 14 | 04/16/12 | 0 | 2 | |
| 106058 | 04/17/12 | 04/18/12 | | 04/24/12 | 7 | 14 | 04/24/12 | 0 | 2 | |
| 106053 | 04/24/12 | 04/25/12 | | 05/04/12 | 10 | 14 | 05/04/12 | 0 | 2 | |
| 106054 | 04/24/12 | 04/25/12 | | 05/04/12 | 10 | 14 | 05/04/12 | 0 | 2 | |

# ORGANIC ANALYSIS DATA SHEET
## USEPA-8011

**KAFB-003**

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM040512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1204091-01 File ID: AAPR301-0

Sampled: 04/04/12 13:31 Prepared: 04/16/12 09:29 Analyzed: 04/16/12 17:54

Solids: Preparation: Method-Specific Extracti Initial/Final: 35 mL / 2 mL

QC Batch: 1204486 Sequence: 2D17019 Calibration: 2D17008 Instrument: 158

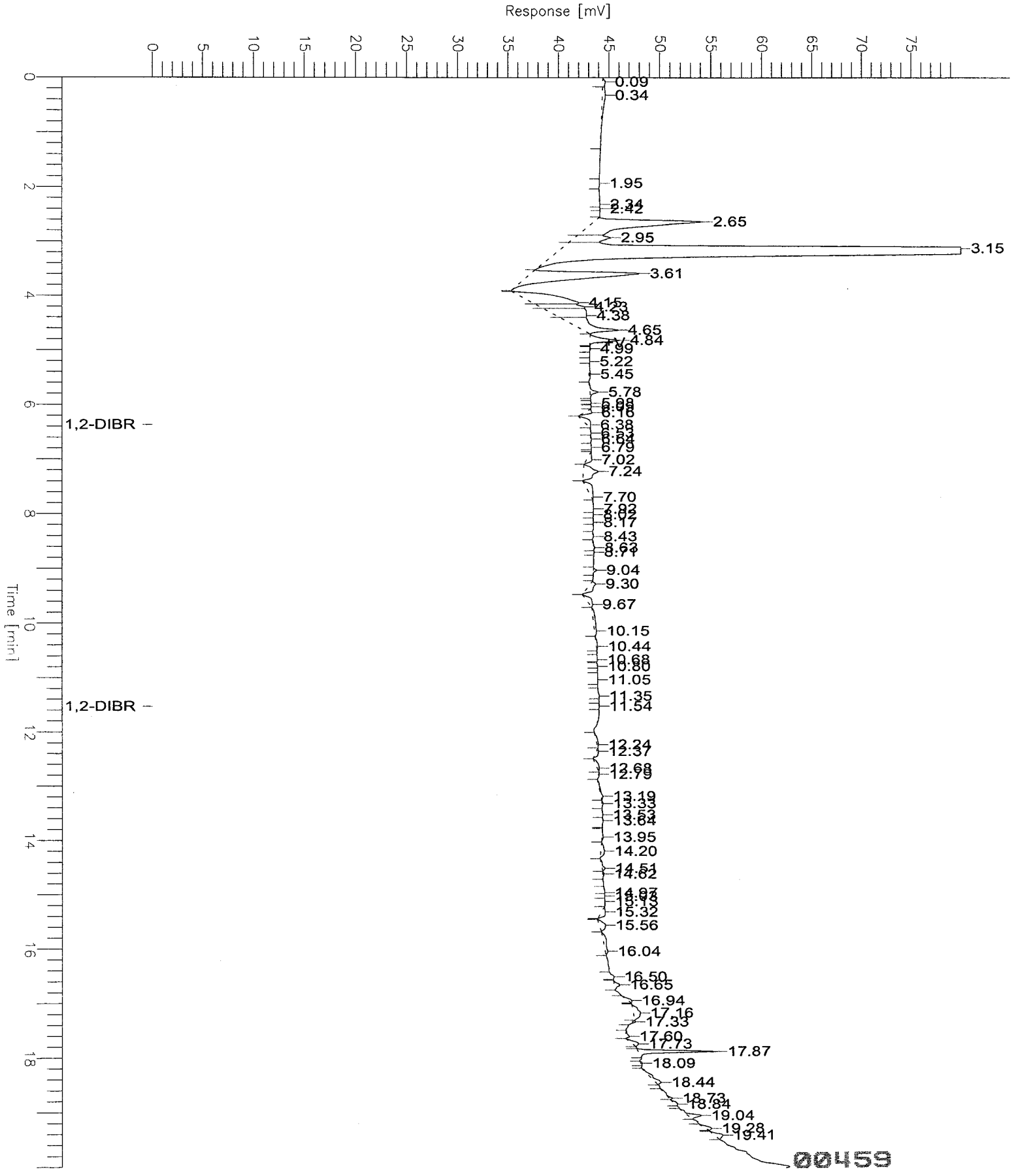
| CAS No. | Analyte | Dilution | CONC. (ug/L) | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 1 | 0.050 | 0.0078 | 0.050 | U |

* Values outside of QC limits

# Chromatogram

Sample Name : 1204091-01
FileName : C:\TC4\158\APRIL2~1\AAPR301.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 17:54
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00459

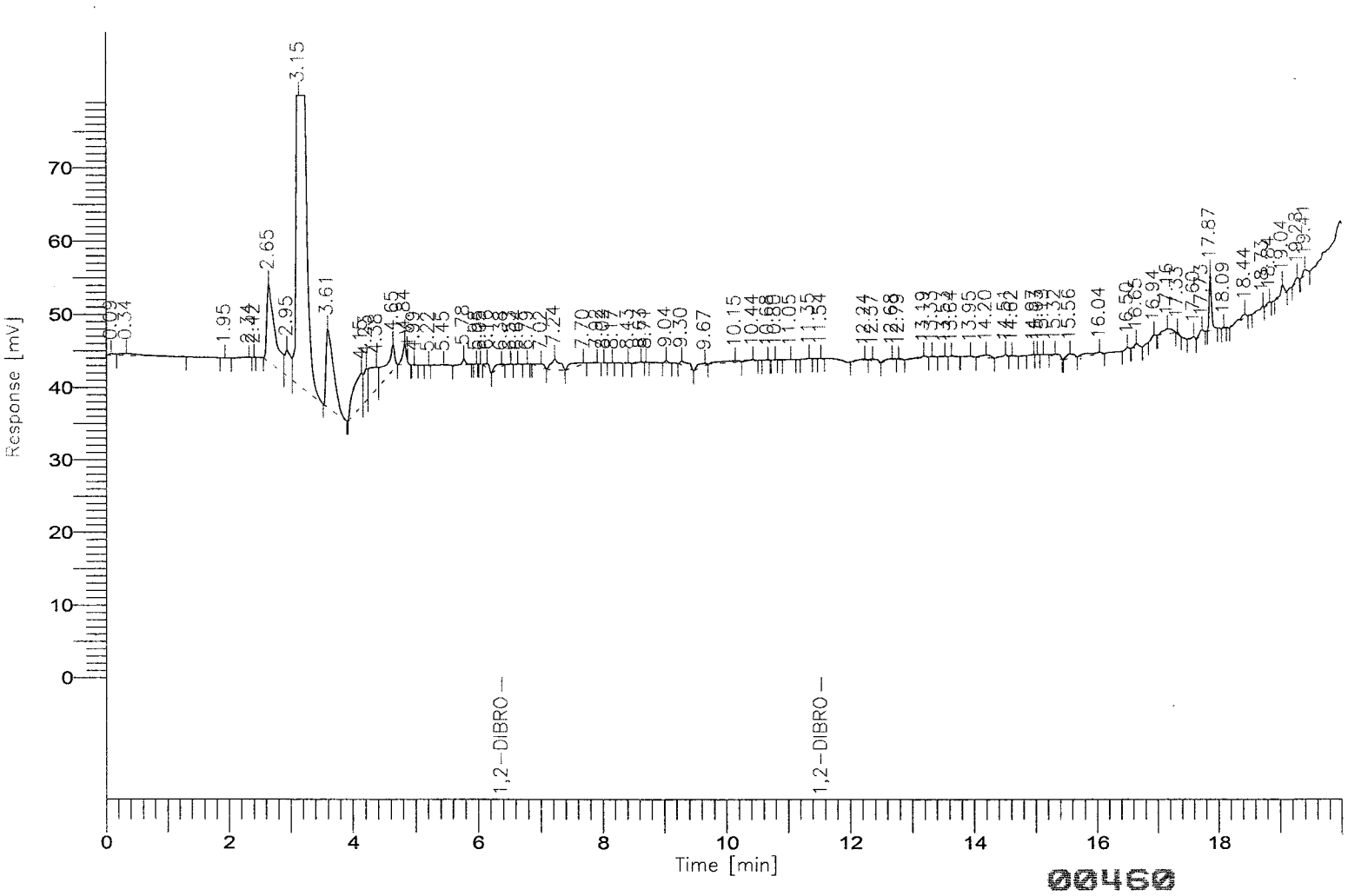
Software Version: 4.1<2F12>
Sample Name : 1204091-01 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 17:54
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR301.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR301.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR301.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00460

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

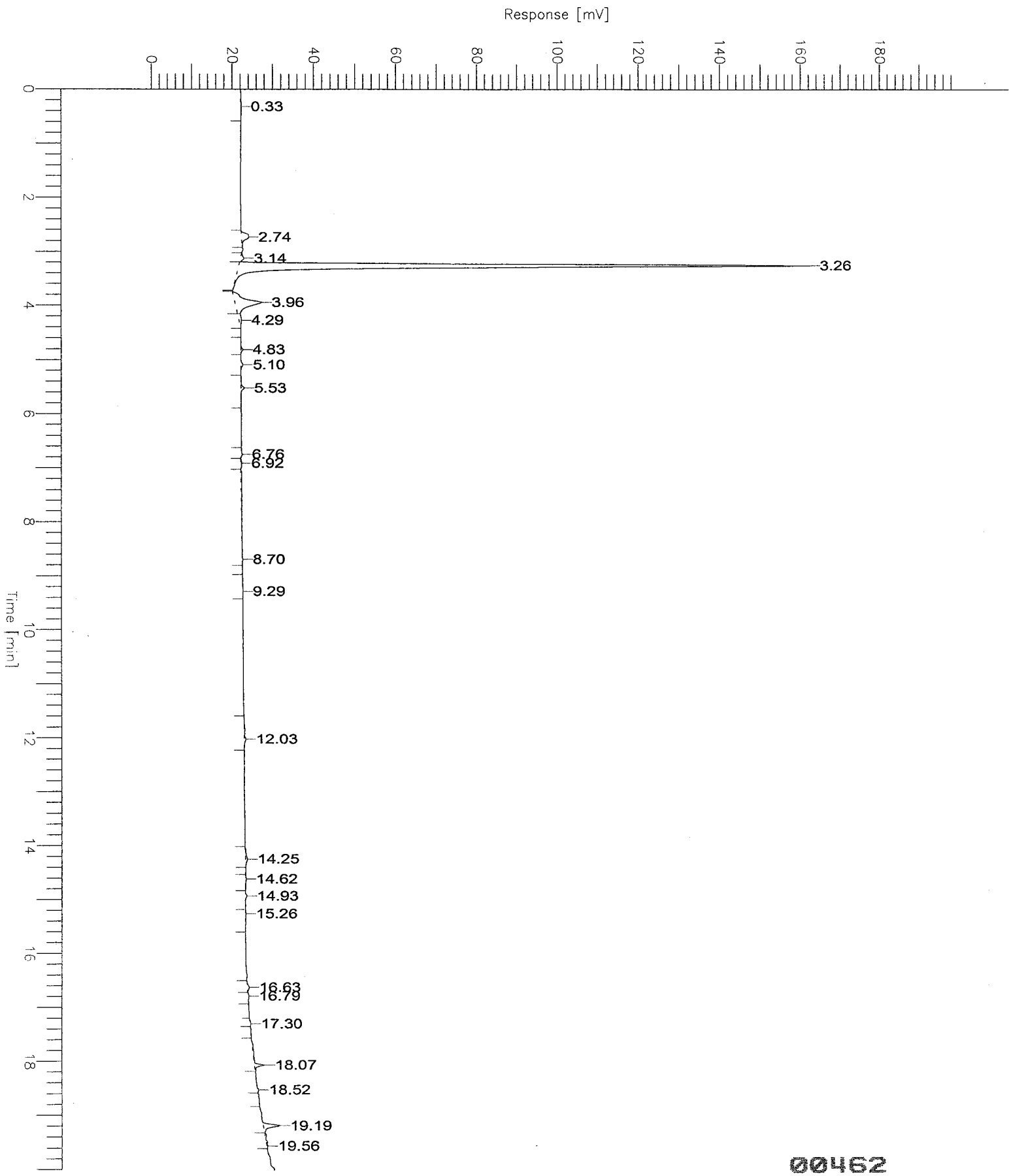
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.38 | 1,2-DIBROMOETHANE | -0.0005 | 321.37 | 5839.00 | 35 | 2 | -0.02950 | LMDL |
| 11.54 | 1,2-DIBROMO3CHLOROPR | -0.0003 | 35.87 | 119.50 | 35 | 2 | -0.01462 | ↓ |
| | | | 357.25 | 5958.50 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR301.TX0

# Chromatogram

Sample Name : 1204091-01
FileName : C:\TC4\158\APRIL2~1\BAPR301.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 17:54
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00462

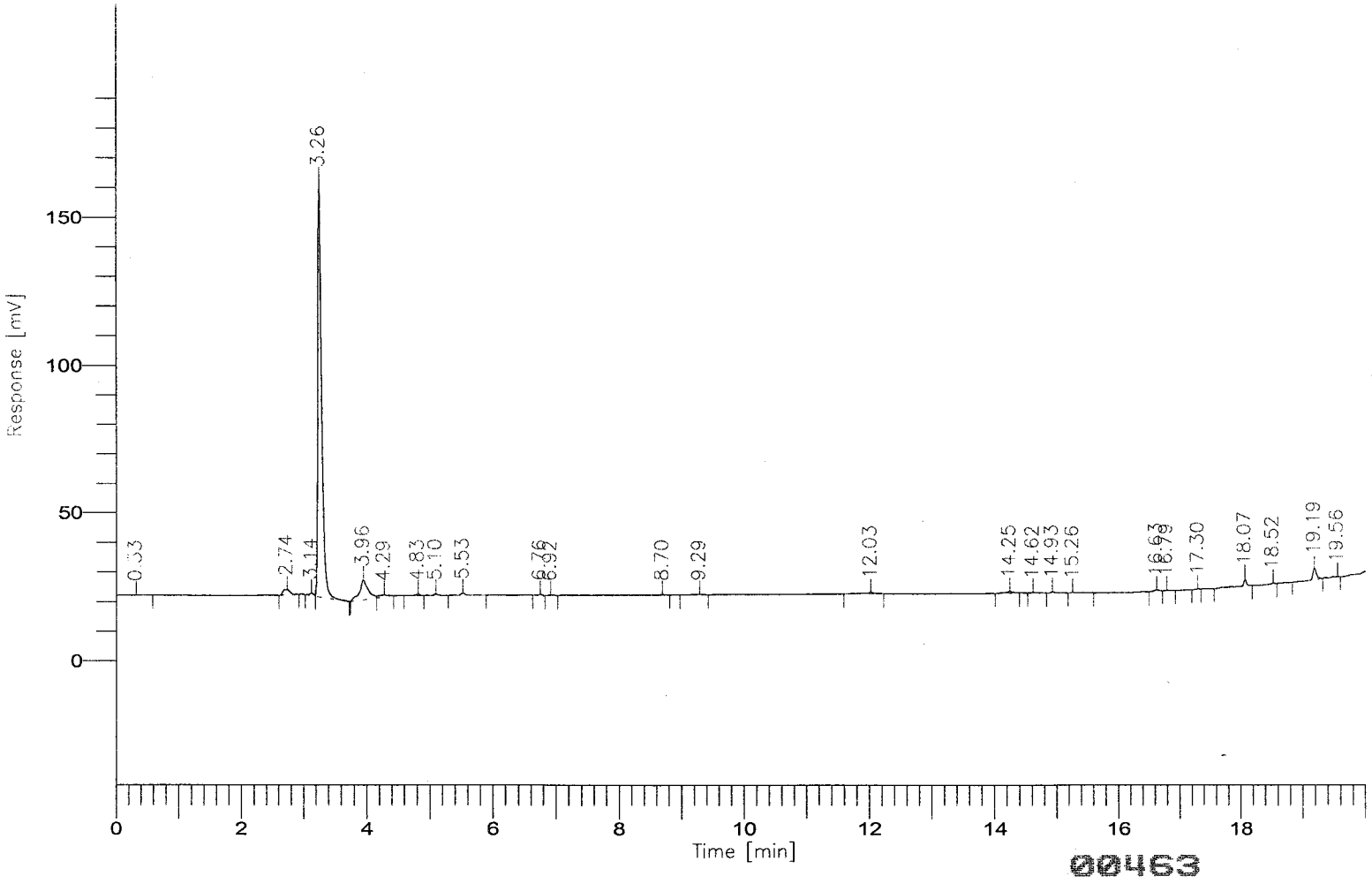
Software Version: 4.1<2F12>
Sample Name : 1204091-01 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 17:54
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR301.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR301.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR301.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00463

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | ZMDL ↓ |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | |
| | | | 0.00 | 0.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR301.TX0

# ORGANIC ANALYSIS DATA SHEET
## USEPA-8011

106042

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM040512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1204205-01 File ID: AAPR302-0

Sampled: 04/10/12 13:48 Prepared: 04/16/12 09:29 Analyzed: 04/16/12 18:22

Solids: Preparation: Method-Specific Extracti Initial/Final: 34.8 mL / 2 mL

QC Batch: 1204486 Sequence: 2D17019 Calibration: 2D17008 Instrument: 158

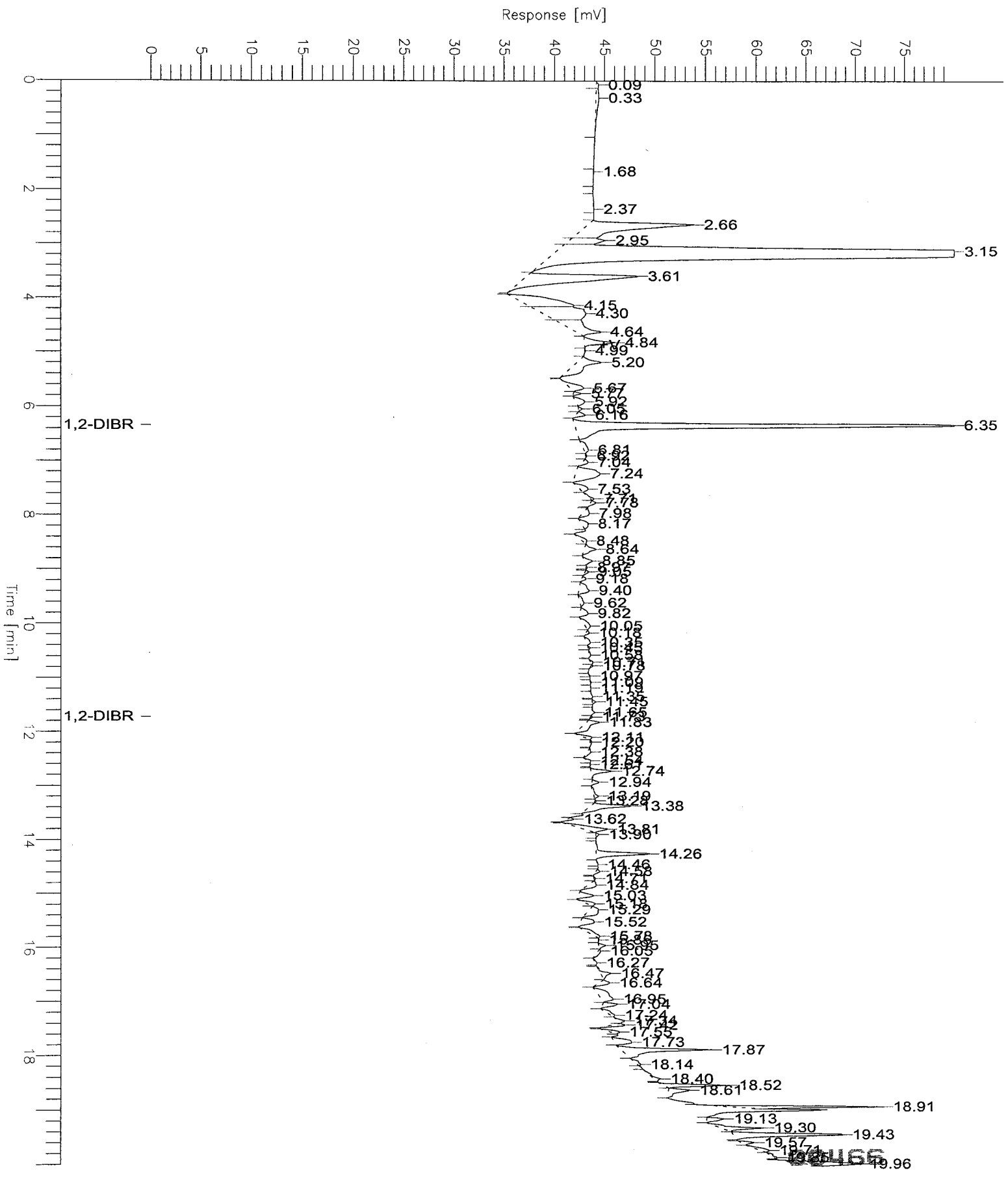
| CAS No. | Analyte | Dilution | CONC. (ug/L) | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 1 | 0.57 | 0.0078 | 0.050 | |

* Values outside of QC limits

# Chromatogram

Sample Name : 1204205-01
FileName : C:\TC4\158\APRIL2~1\AAPR302.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 18:22
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



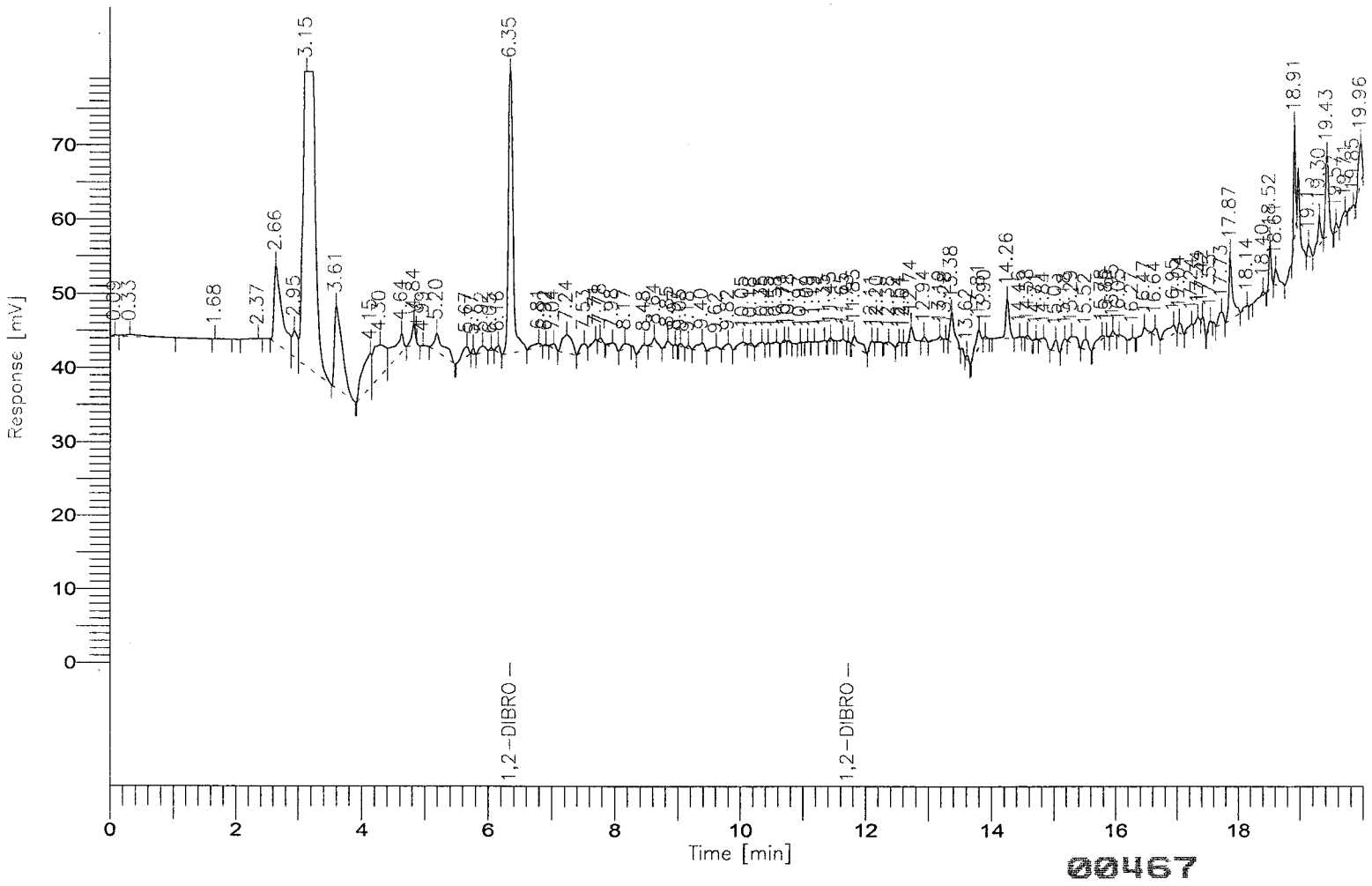
Software Version: 4.1<2F12>
Sample Name : 1204205-01 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 18:22
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR302.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR302.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR302.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00467

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

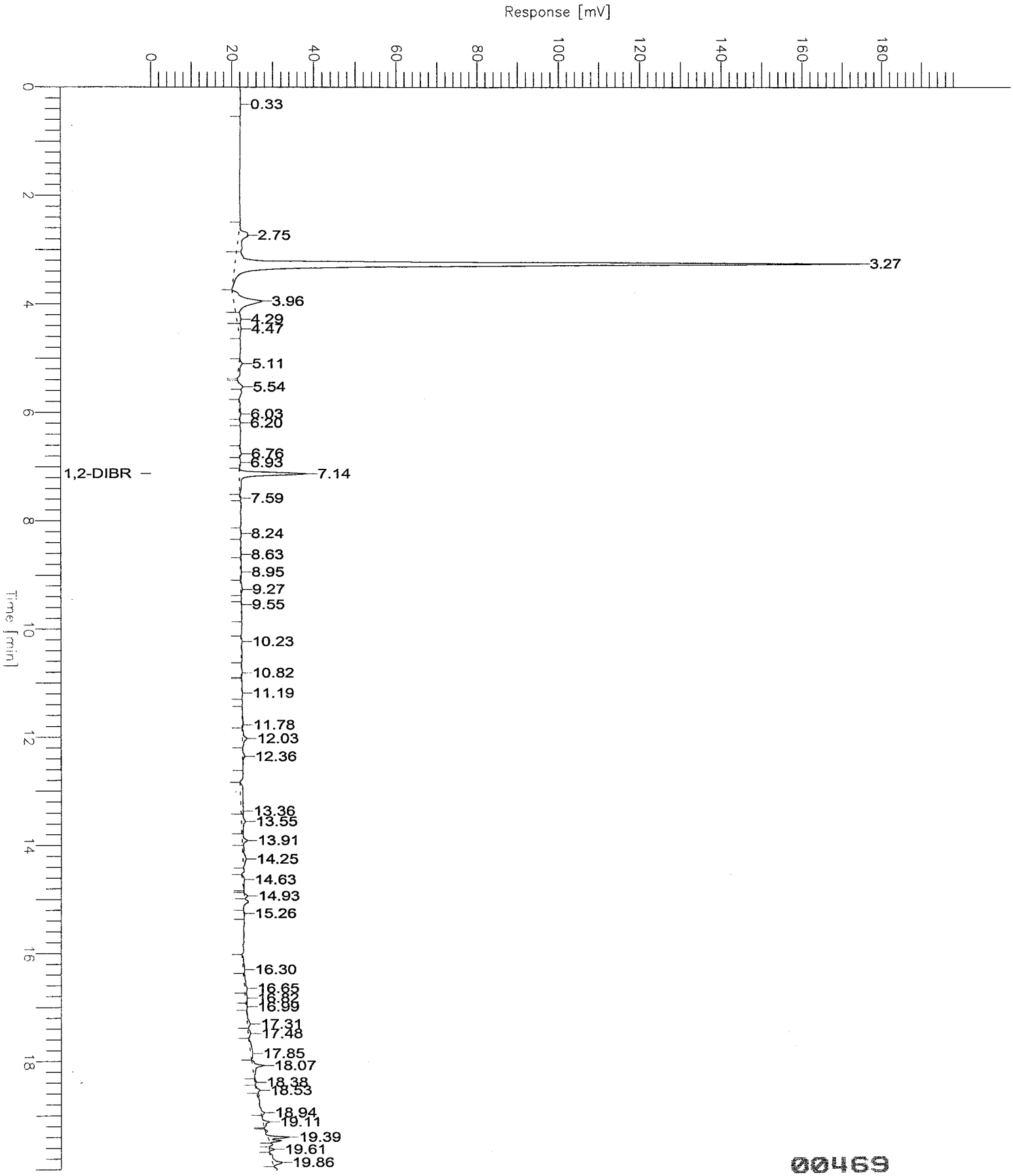
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.35 | 1,2-DIBROMOETHANE | 0.0099 | 52518.84 | 221185.00 | 35 | 2 | 0.56674 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | -0.0002 | 204.94 | 360.00 | 35 | 2 | -0.01340 |
| | | | 52723.78 | 221545.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR302.TX0

# Chromatogram

Sample Name : 1204205-01
FileName : C:\TC4\158\APRIL2~1\BAPR302.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 18:22
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00469

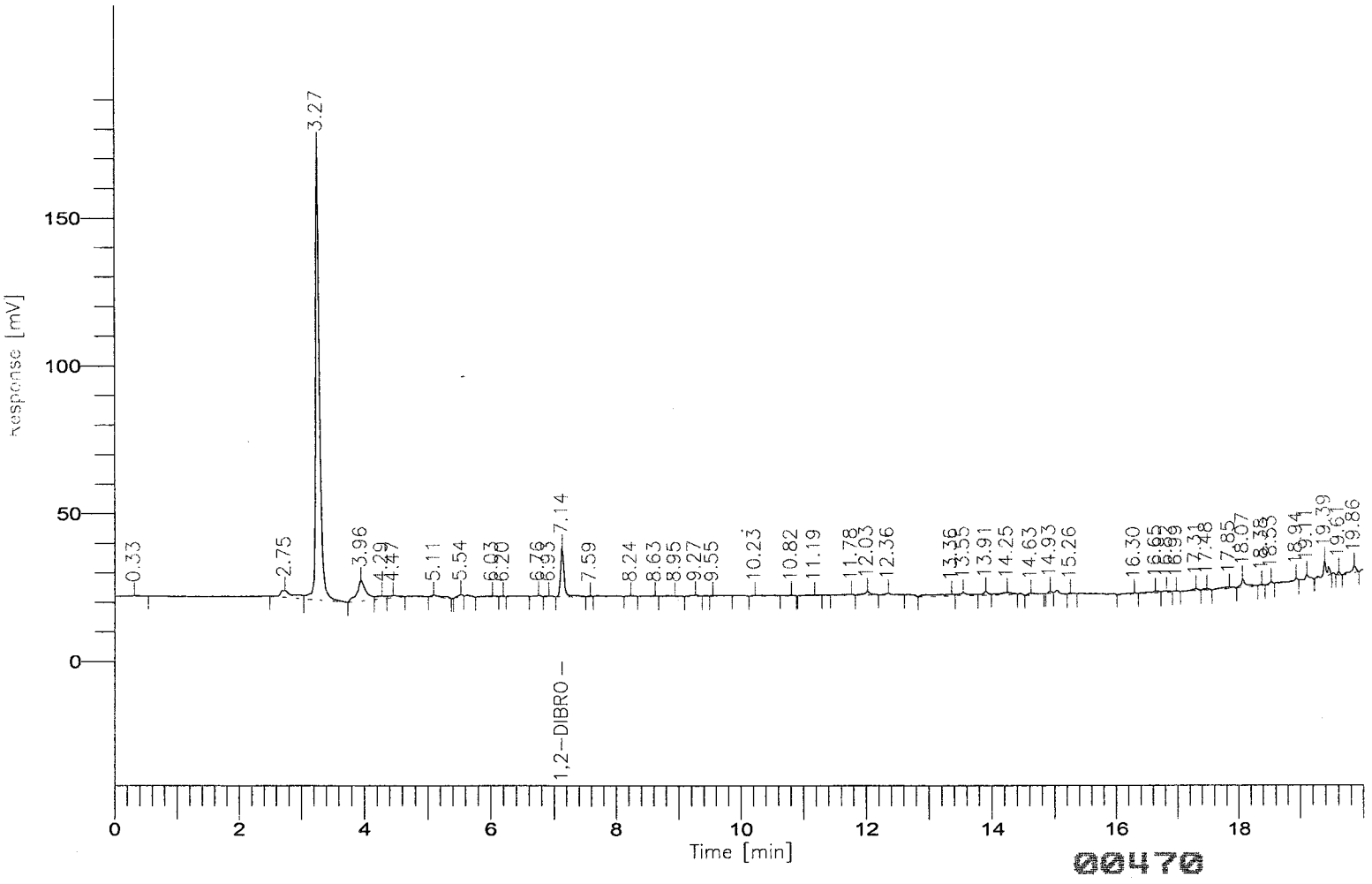
Software Version: 4.1<2F12>
Sample Name : 1204205-01 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 18:22
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR302.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR302.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR302.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00470

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.14 | 1,2-DIBROMOETHANE (2 | 0.0086 | 16665.32 | 66313.50 | 35 | 2 | 0.49351 |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 |
| | | | 16665.32 | 66313.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR302.TX0

# ORGANIC ANALYSIS DATA SHEET
## USEPA-8011

106089

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM040512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1204205-02 File ID: AAPR303-0

Sampled: 04/10/12 14:45 Prepared: 04/16/12 09:29 Analyzed: 04/16/12 18:50

Solids: Preparation: Method-Specific Extracti Initial/Final: 34.5 mL / 2 mL

QC Batch: 1204486 Sequence: 2D17019 Calibration: 2D17008 Instrument: 158

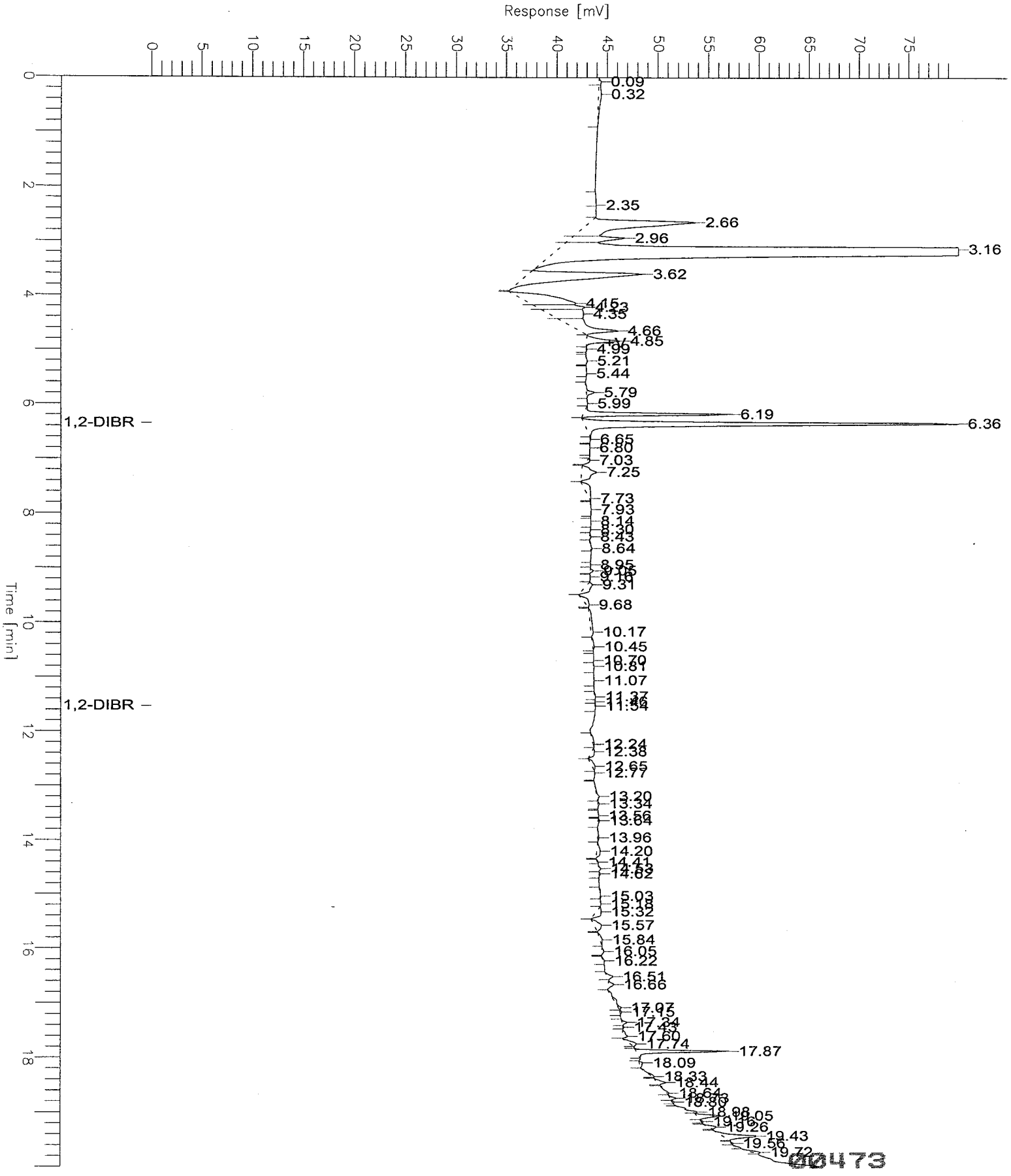
| CAS No. | Analyte | Dilution | CONC. (ug/L) | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 1 | 0.41 | 0.0078 | 0.050 | |

* Values outside of QC limits

# Chromatogram

Sample Name : 1204205-02
FileName : C:\TC4\158\APRIL2~1\AAPR303.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 18:50
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00473

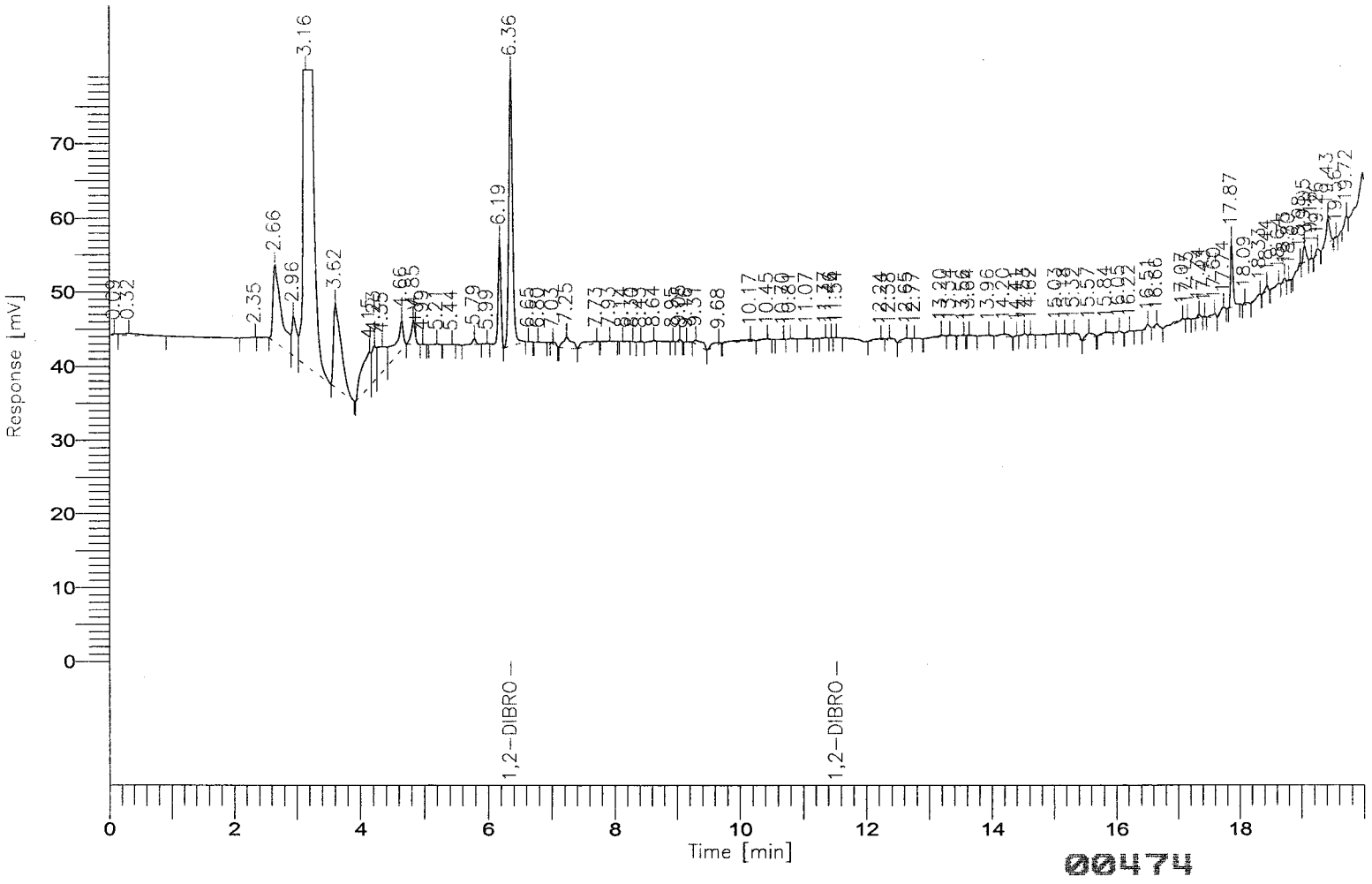
Software Version: 4.1<2F12>
Sample Name : 1204205-02 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 18:50
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR303.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR303.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR303.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00474

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

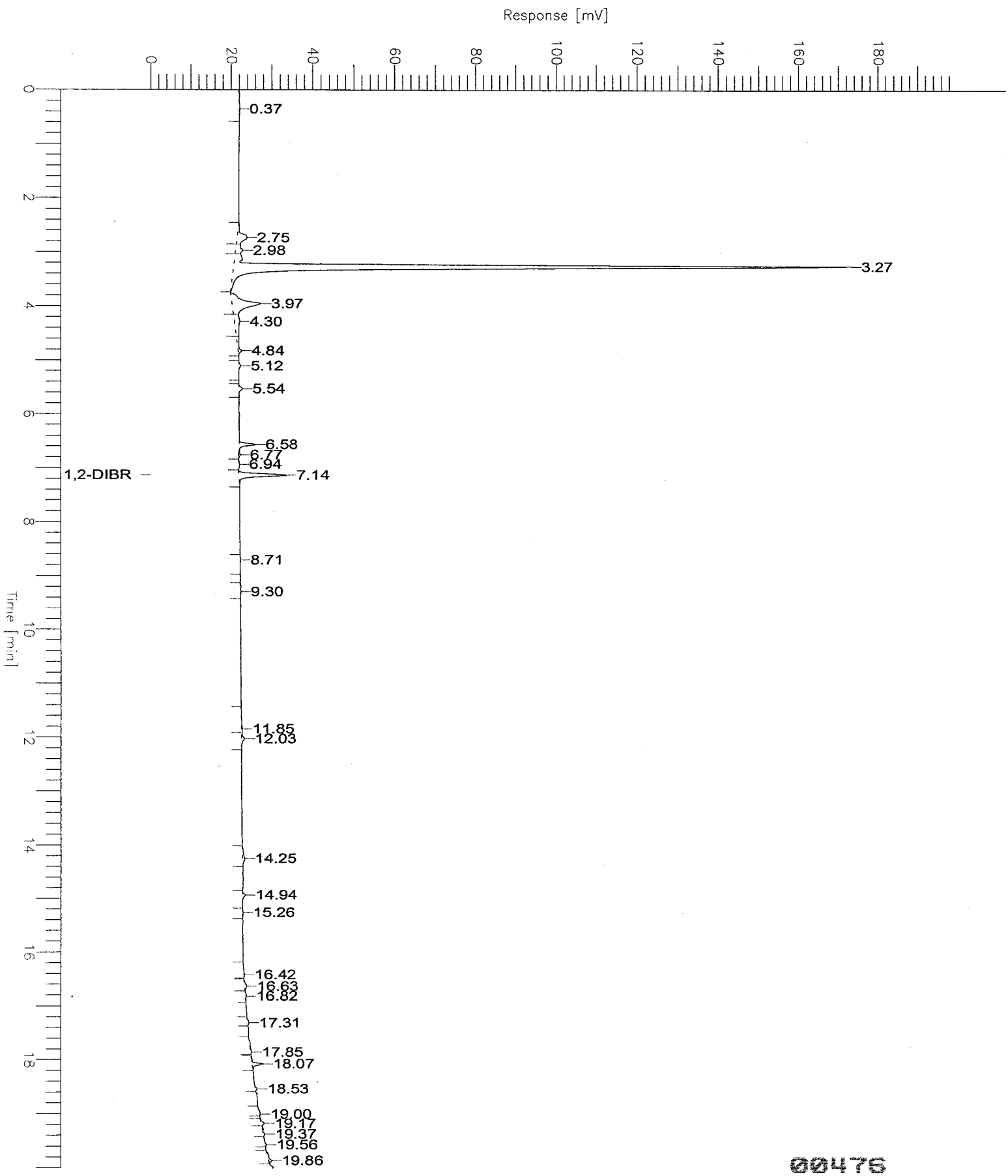
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.36 | 1,2-DIBROMOETHANE | 0.0071 | 38595.43 | 153167.50 | 35 | 2 | 0.40770 |
| 11.54 | 1,2-DIBROMO3CHLOROPR | -0.0003 | 53.12 | 234.00 | 35 | 2 | -0.01450 |
| | | | 38648.55 | 153401.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR303.TX0

# Chromatogram

Sample Name : 1204205-02
FileName : C:\TC4\158\APRIL2~1\BAPR303.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 18:50
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00475

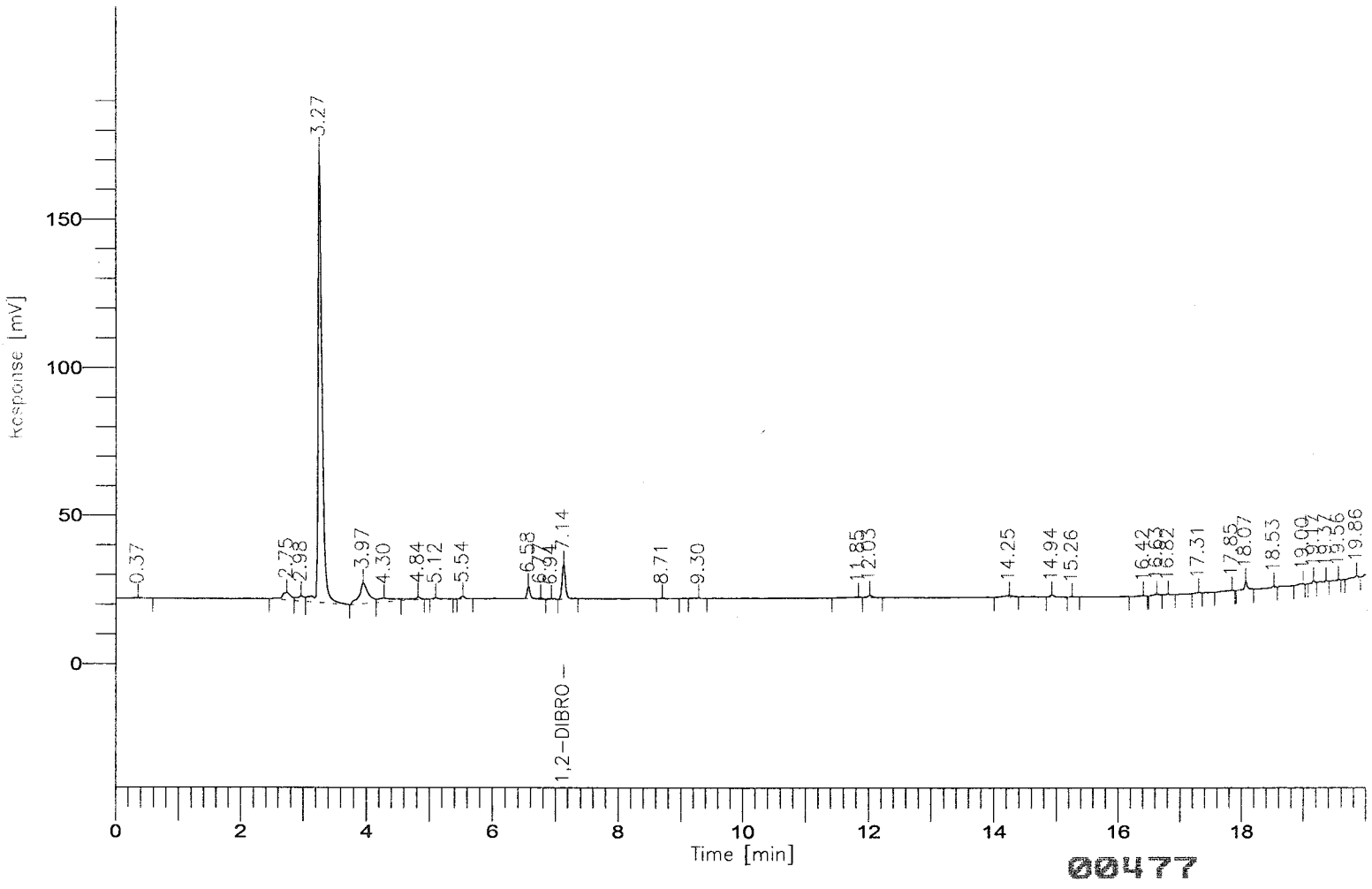
Software Version: 4.1<2F12>
Sample Name : 1204205-02 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 18:50
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR303.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR303.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR303.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00477

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.14 | 1,2-DIBROMOETHANE (2 | 0.0062 | 12079.52 | 44517.50 | 35 | 2 | 0.35503 |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 |
| | | | 12079.52 | 44517.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR303.TX0

# ORGANIC ANALYSIS DATA SHEET
## USEPA-8011

106058

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM040512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1204329-01 File ID: AAPR403-0

Sampled: 04/17/12 12:31 Prepared: 04/24/12 13:36 Analyzed: 04/24/12 17:46

Solids: Preparation: Method-Specific Extracti Initial/Final: 34.5 mL / 2 mL

QC Batch: 1205087 Sequence: 2D25008 Calibration: 2D17008 Instrument: 158

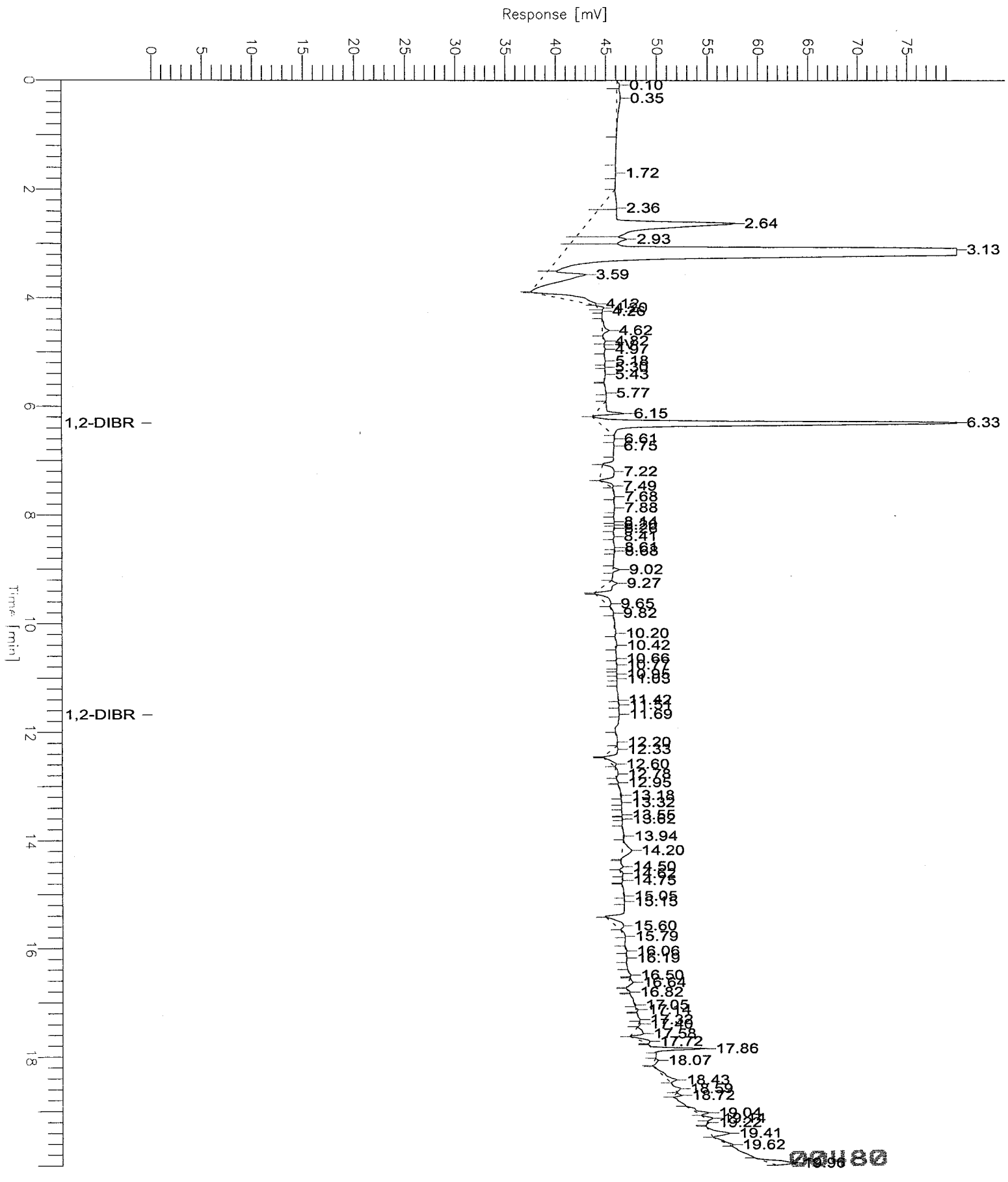
| CAS No. | Analyte | Dilution | CONC. (ug/L) | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 1 | 0.58 | 0.0078 | 0.050 | |

* Values outside of QC limits

# Chromatogram

Sample Name : 1204329-01
FileName : C:\TC4\158\APRIL2~1\AAPR403.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 17:46
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



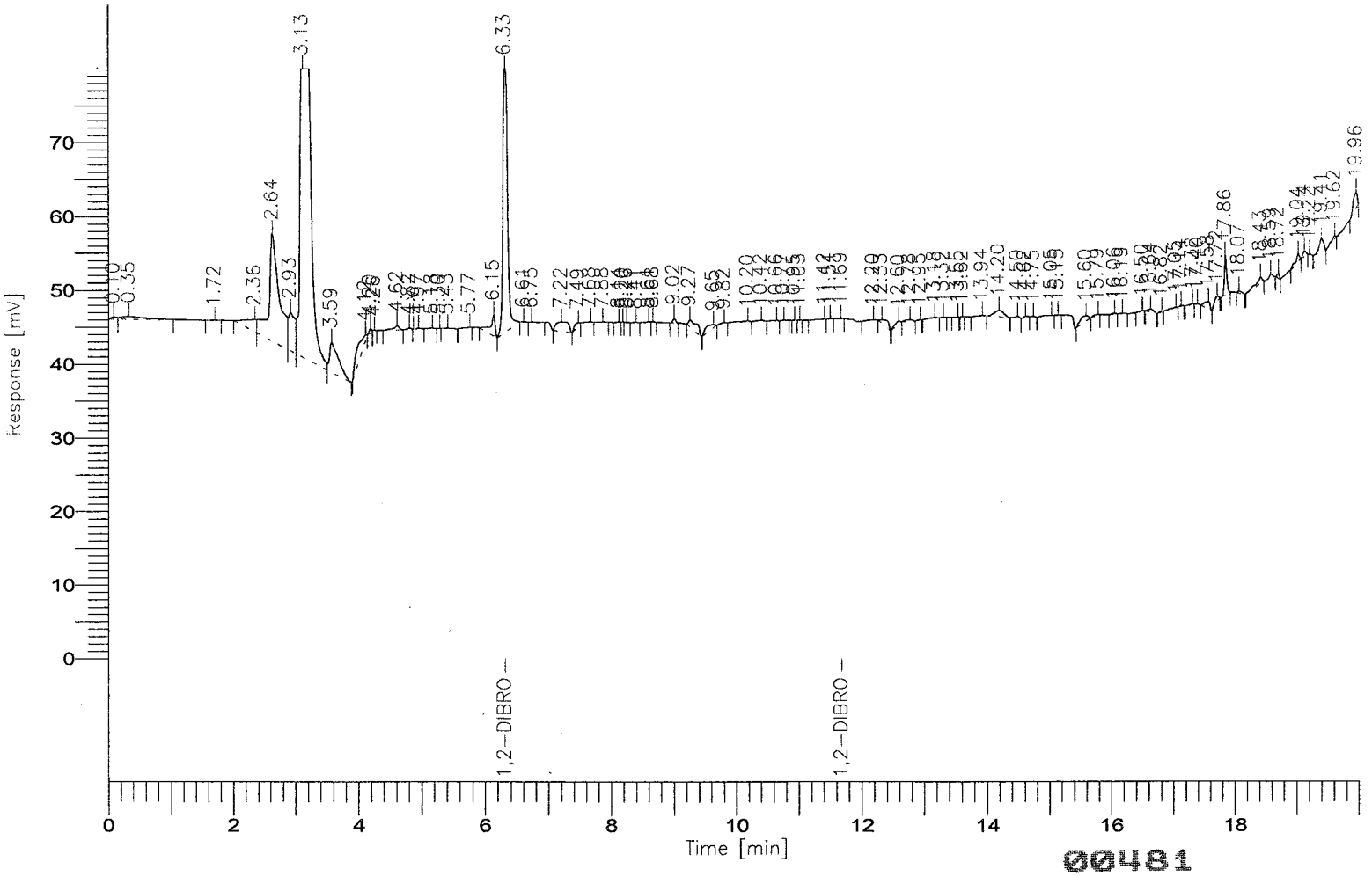
Software Version: 4.1<2F12>
Sample Name : 1204329-01 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 17:46
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR403.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR403.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR403.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00481

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

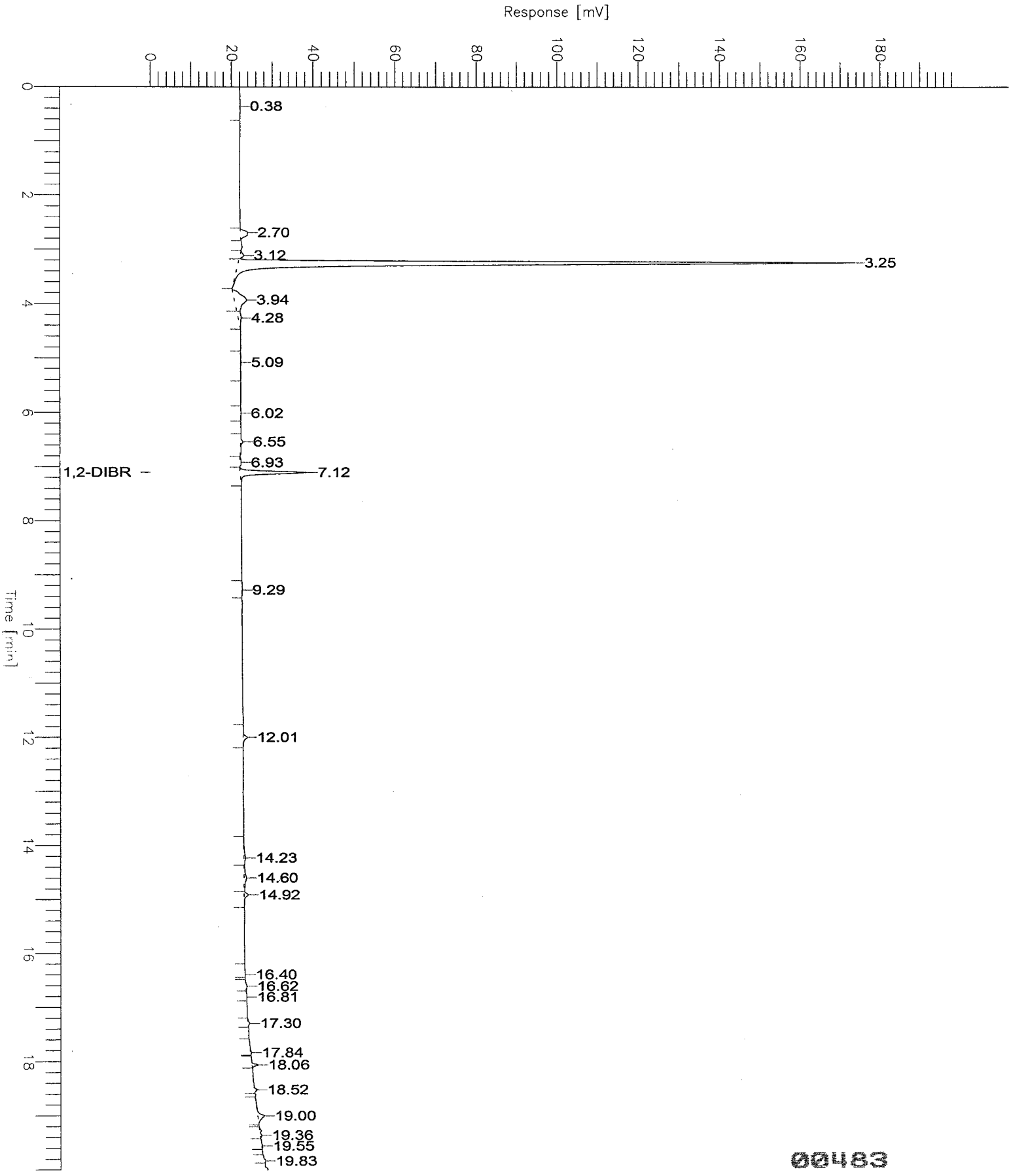
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.32 | 1,2-DIBROMOETHANE | 0.0100 | 52682.20 | 211922.00 | 35 | 2 | 0.56861 |
| 11.69 | 1,2-DIBROMO3CHLOROPR | -0.0003 | 33.03 | 162.00 | 35 | 2 | -0.01464 |
| | | | 52715.24 | 212084.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR403.TX0

# Chromatogram

Sample Name : 1204329-01
FileName : C:\TC4\158\APRIL2~1\BAPR403.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 17:46
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00483

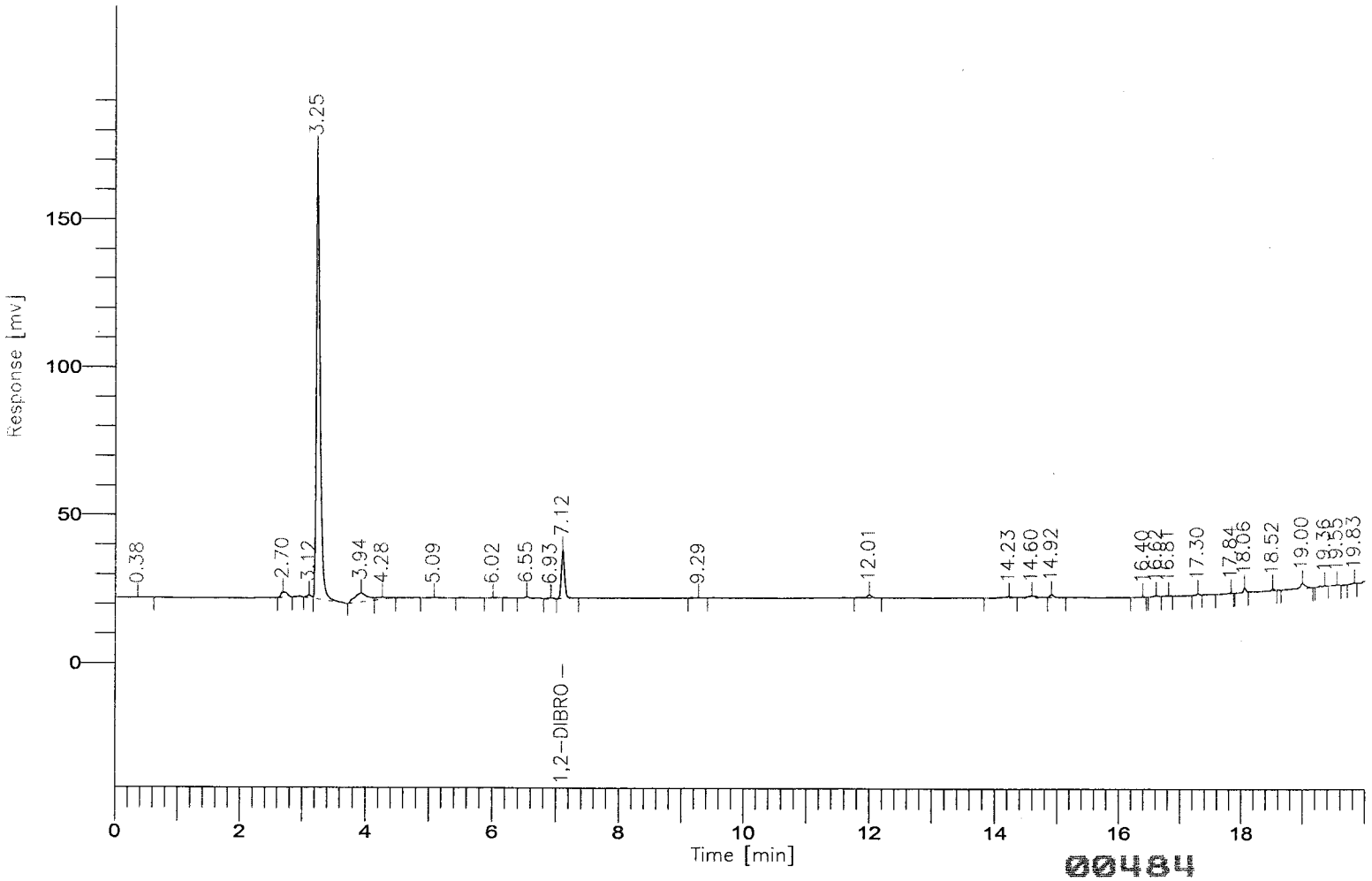
Software Version: 4.1<2F12>
Sample Name : 1204329-01 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 17:46
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR403.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR403.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR403.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00484

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0085 | 16496.08 | 59377.00 | 35 | 2 | 0.48840 |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 |
| | | | 16496.08 | 59377.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR403.TX0

# ORGANIC ANALYSIS DATA SHEET
## USEPA-8011

106053

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM040512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1204454-01 File ID: AMAY030-0

Sampled: 04/24/12 10:20 Prepared: 05/04/12 08:27 Analyzed: 05/04/12 11:27

Solids: Preparation: Method-Specific Extracti Initial/Final: 34.6 mL / 2 mL

QC Batch: 1205560 Sequence: 2E07013 Calibration: 2D17008 Instrument: 158

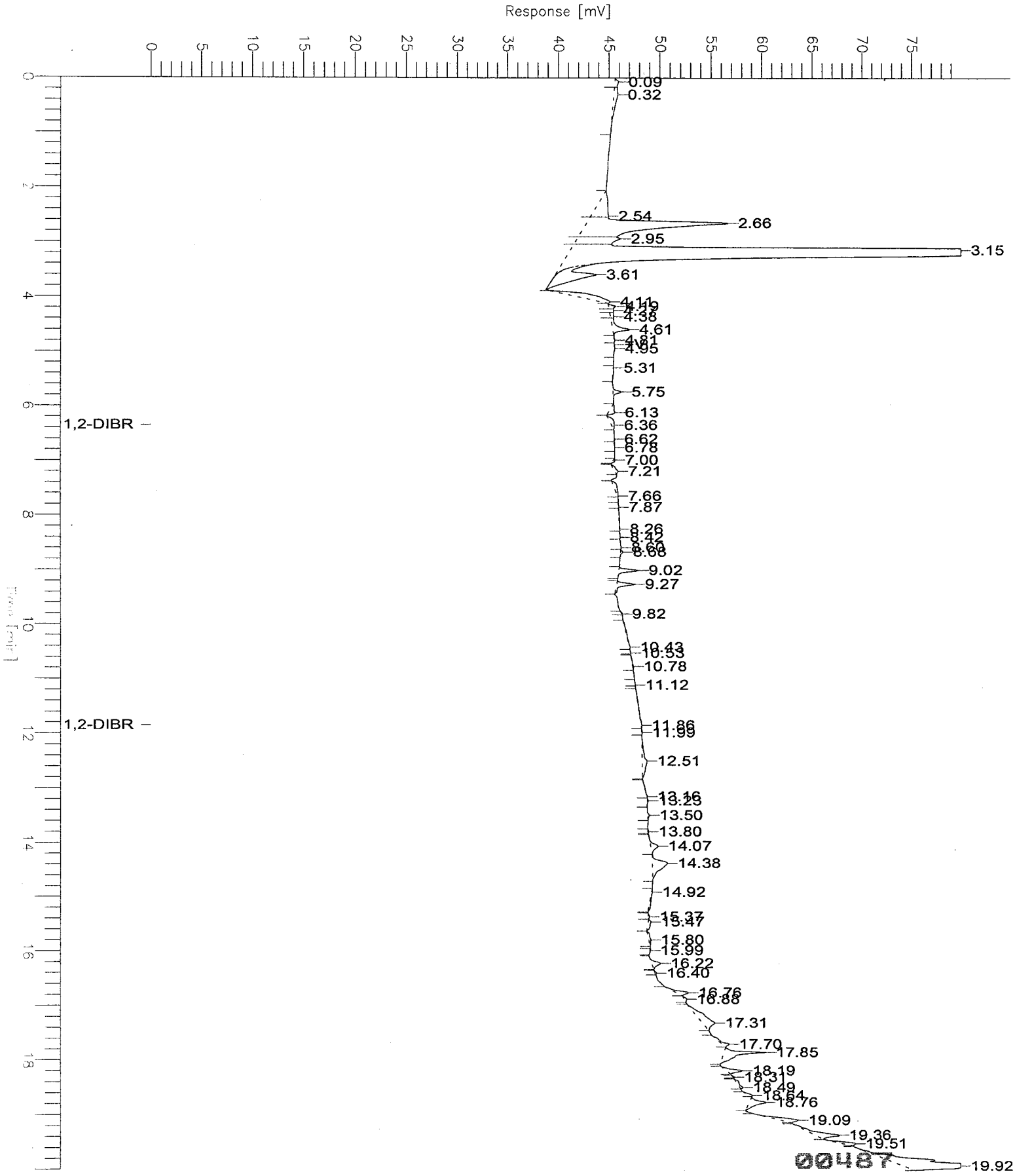
| CAS No. | Analyte | Dilution | CONC. (ug/L) | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 1 | 0.050 | 0.0078 | 0.050 | U |

* Values outside of QC limits

# Chromatogram

Sample Name : 1204454-01
FileName : C:\TC4\158\MAY2012\AMAY030.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/7/12 09:22
Time of Injection: 5/4/12 11:27
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



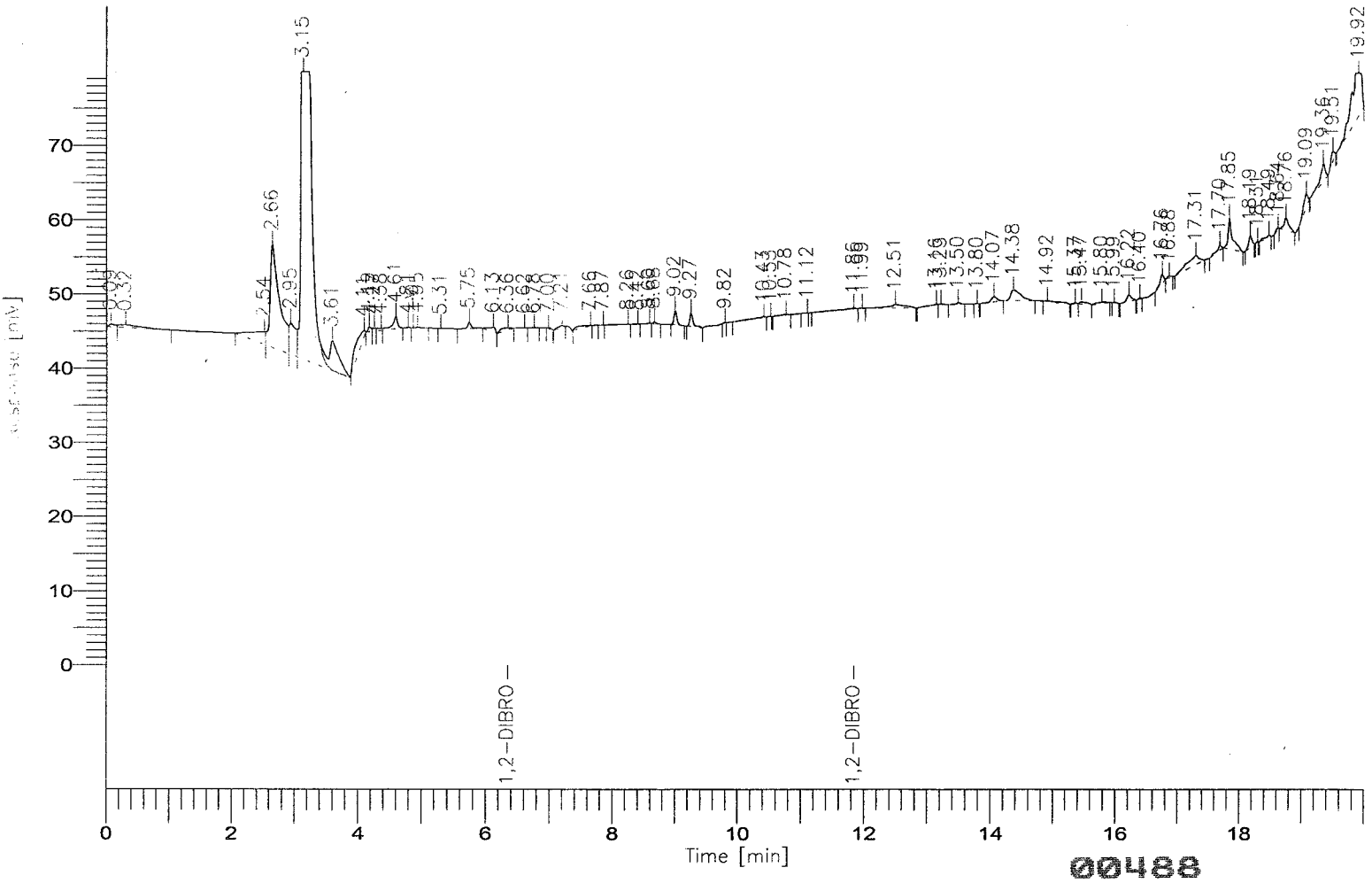
Software Version: 4.1<2F12>
Sample Name : 1204454-01 Time : 5/7/12 09:22
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 11:27
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY030.RAW
Result File : C:\TC4\158\MAY2012\AMAY030.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY030.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00488

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

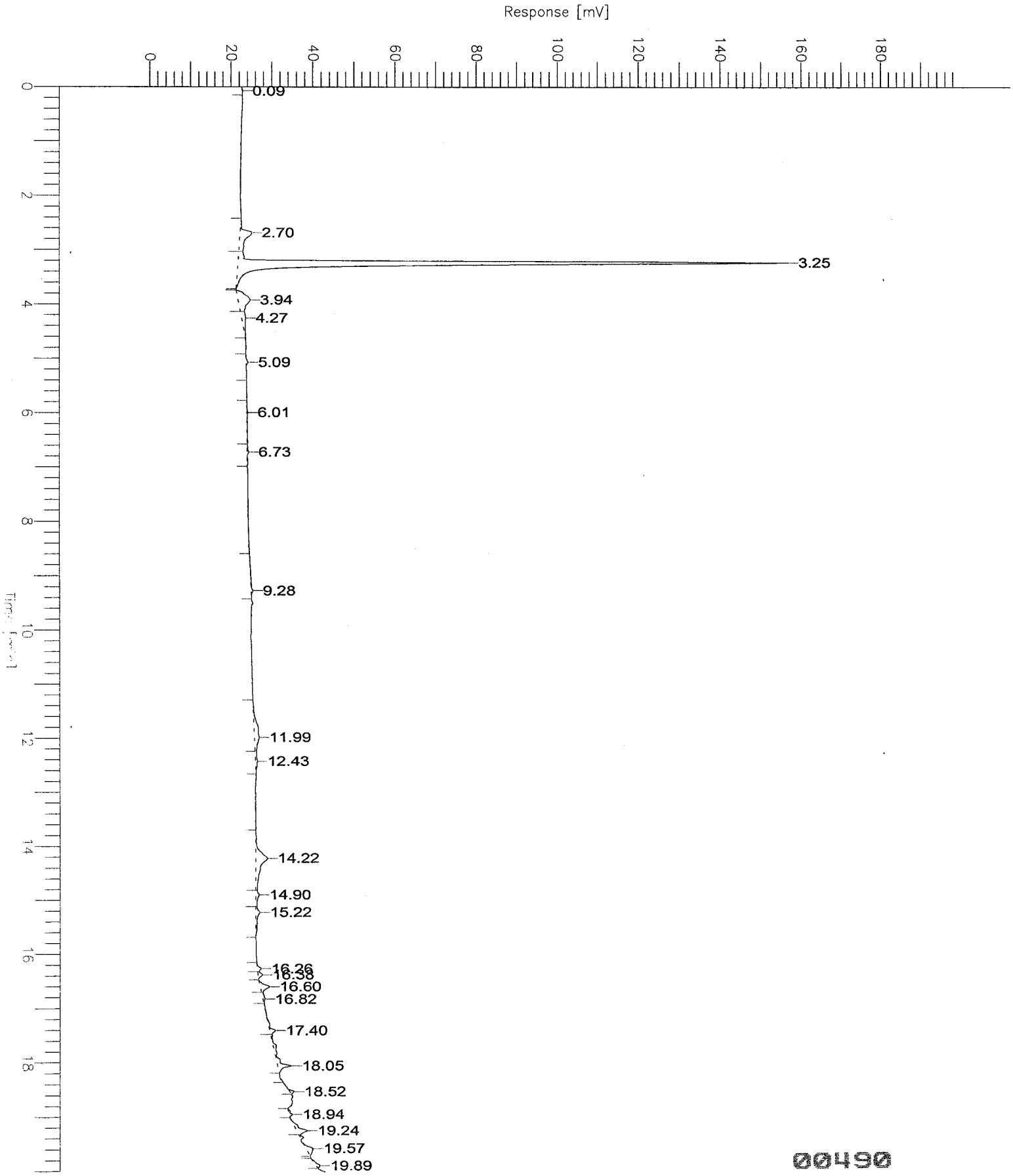
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.36 | 1,2-DIBROMOETHANE | -0.0005 | 256.20 | 4322.00 | 35 | 2 | -0.03059 | LMDL |
| 11.86 | 1,2-DIBROMO3CHLOROPR | -0.0003 | 74.90 | 1693.00 | 35 | 2 | -0.01451 | |
| | | | 331.10 | 6015.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY030.TX0

# Chromatogram

Sample Name : 1204454-01
FileName : C:\TC4\158\MAY2012\BMAY030.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/7/12 09:22
Time of Injection: 5/4/12 11:27
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00490

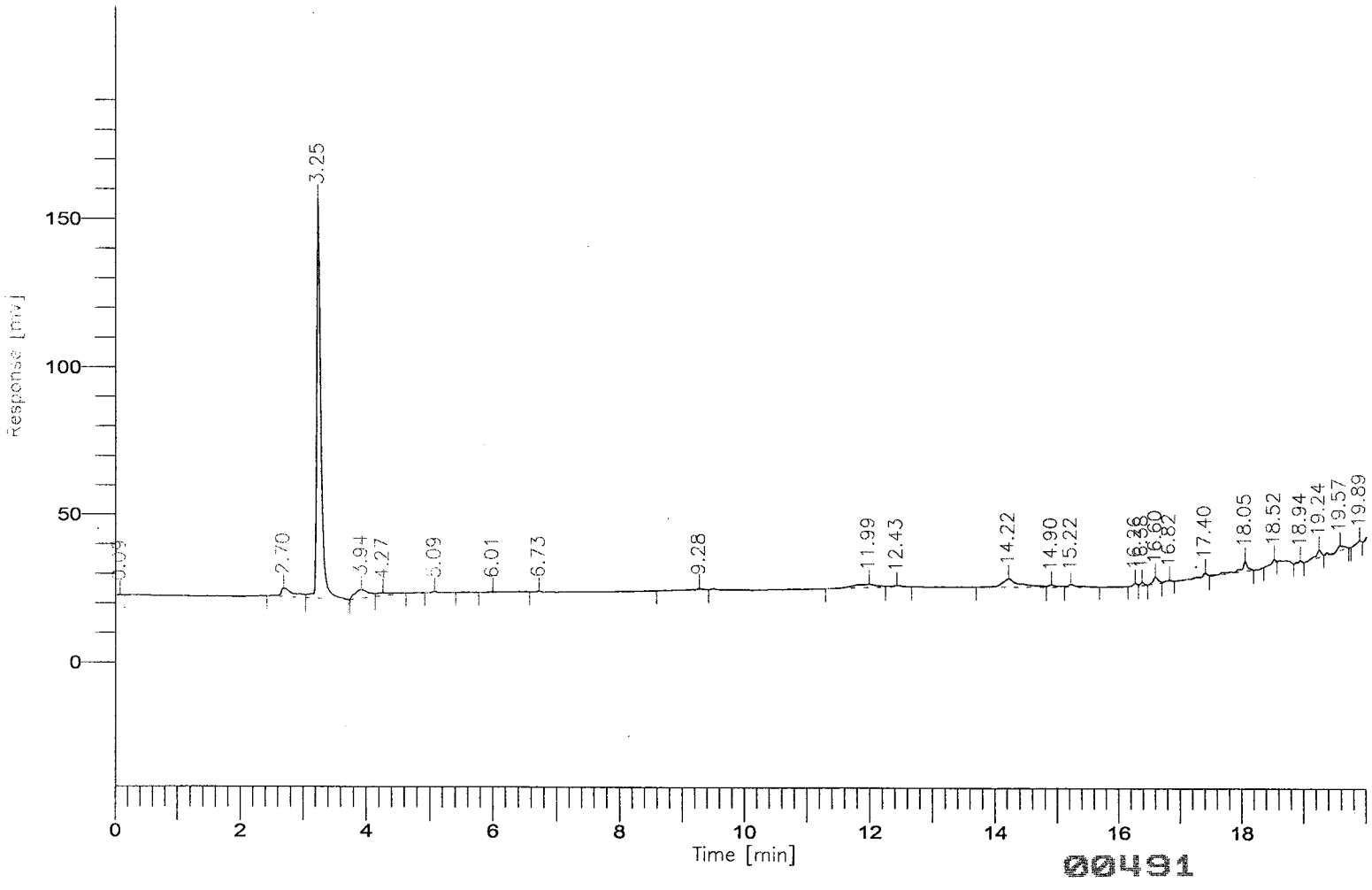
Software Version: 4.1<2F12>
Sample Name : 1204454-01 Time : 5/7/12 09:22
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 11:27
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY030.RAW
Result File : C:\TC4\158\MAY2012\BMAY030.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY030.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00491

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | CMDL |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | |
| | | | 0.00 | 0.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY030.TX0

# ORGANIC ANALYSIS DATA SHEET
## USEPA-8011

106054

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM040512

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1204454-02 File ID: AMAY031-0

Sampled: 04/24/12 13:30 Prepared: 05/04/12 08:27 Analyzed: 05/04/12 11:55

Solids: Preparation: Method-Specific Extracti Initial/Final: 34.5 mL / 2 mL

QC Batch: 1205560 Sequence: 2E07013 Calibration: 2D17008 Instrument: 158

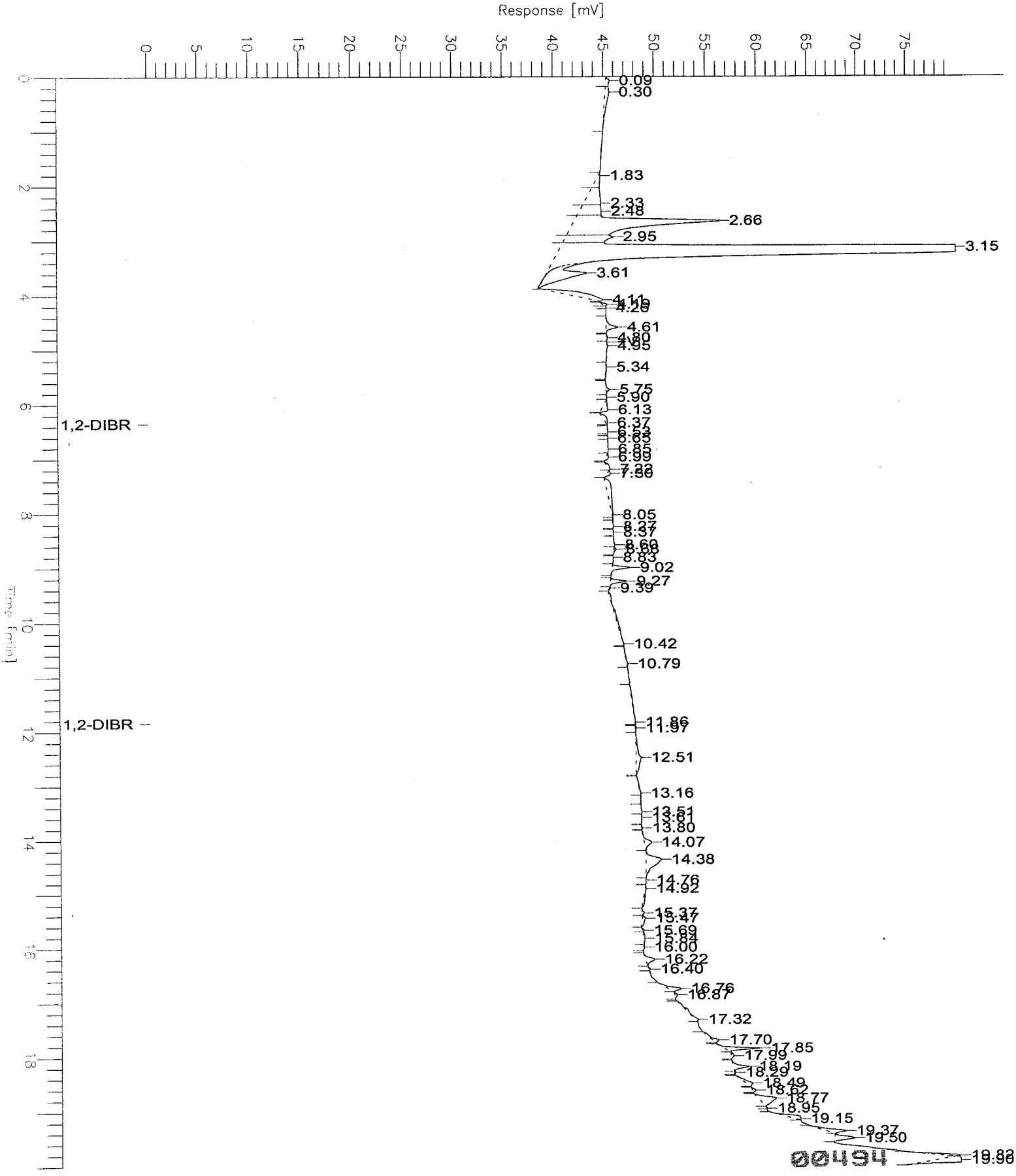
| CAS No. | Analyte | Dilution | CONC. (ug/L) | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 1 | 0.050 | 0.0078 | 0.050 | U |

* Values outside of QC limits

# Chromatogram

Sample Name : 1204454-02
FileName : C:\TC4\158\MAY2012\AMAY031.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/7/12 09:22
Time of Injection: 5/4/12 11:55
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



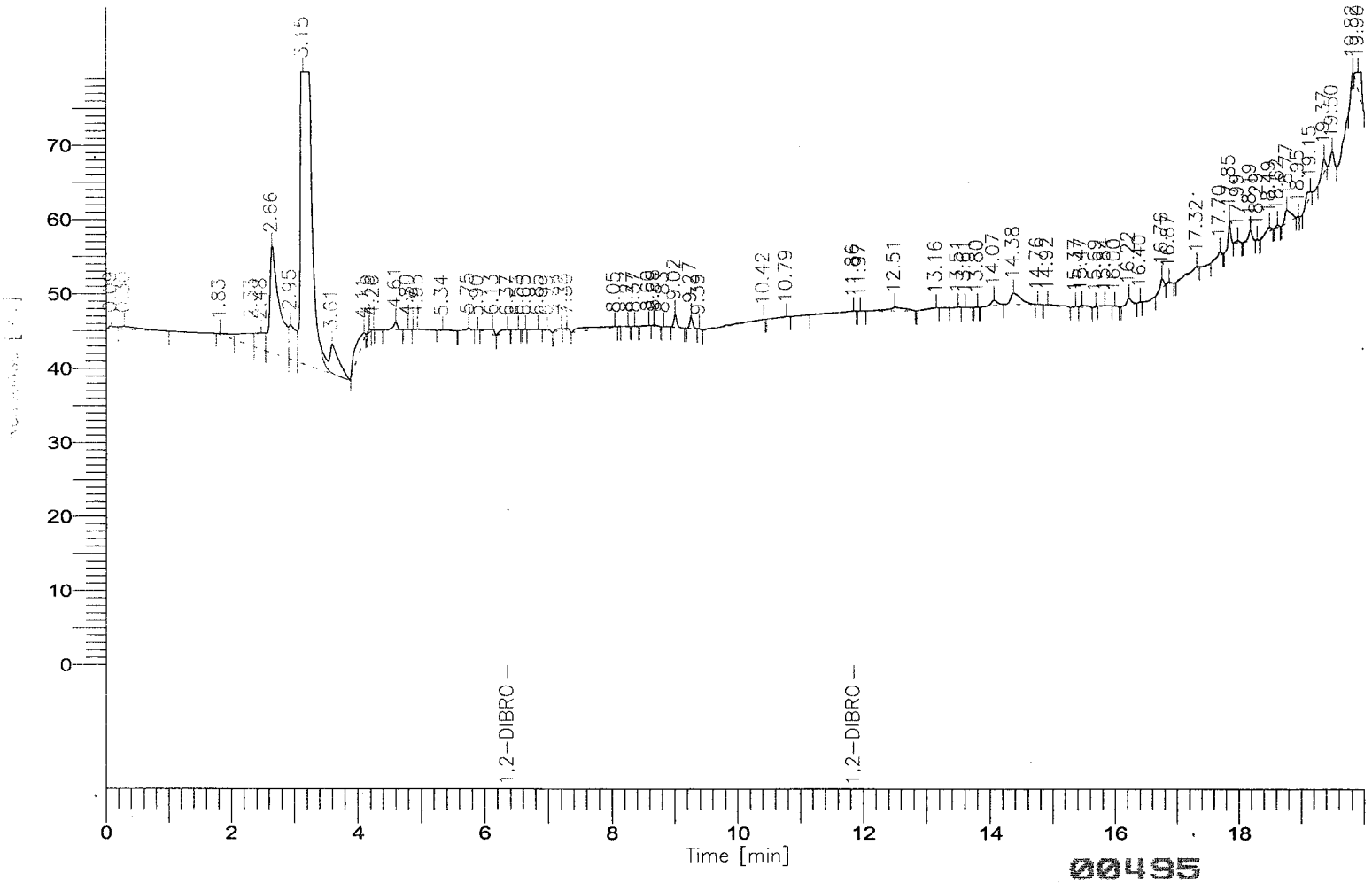
Software Version: 4.1<2F12>
Sample Name : 1204454-02 Time : 5/7/12 09:22
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 11:55
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY031.RAW
Result File : C:\TC4\158\MAY2012\AMAY031.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY031.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

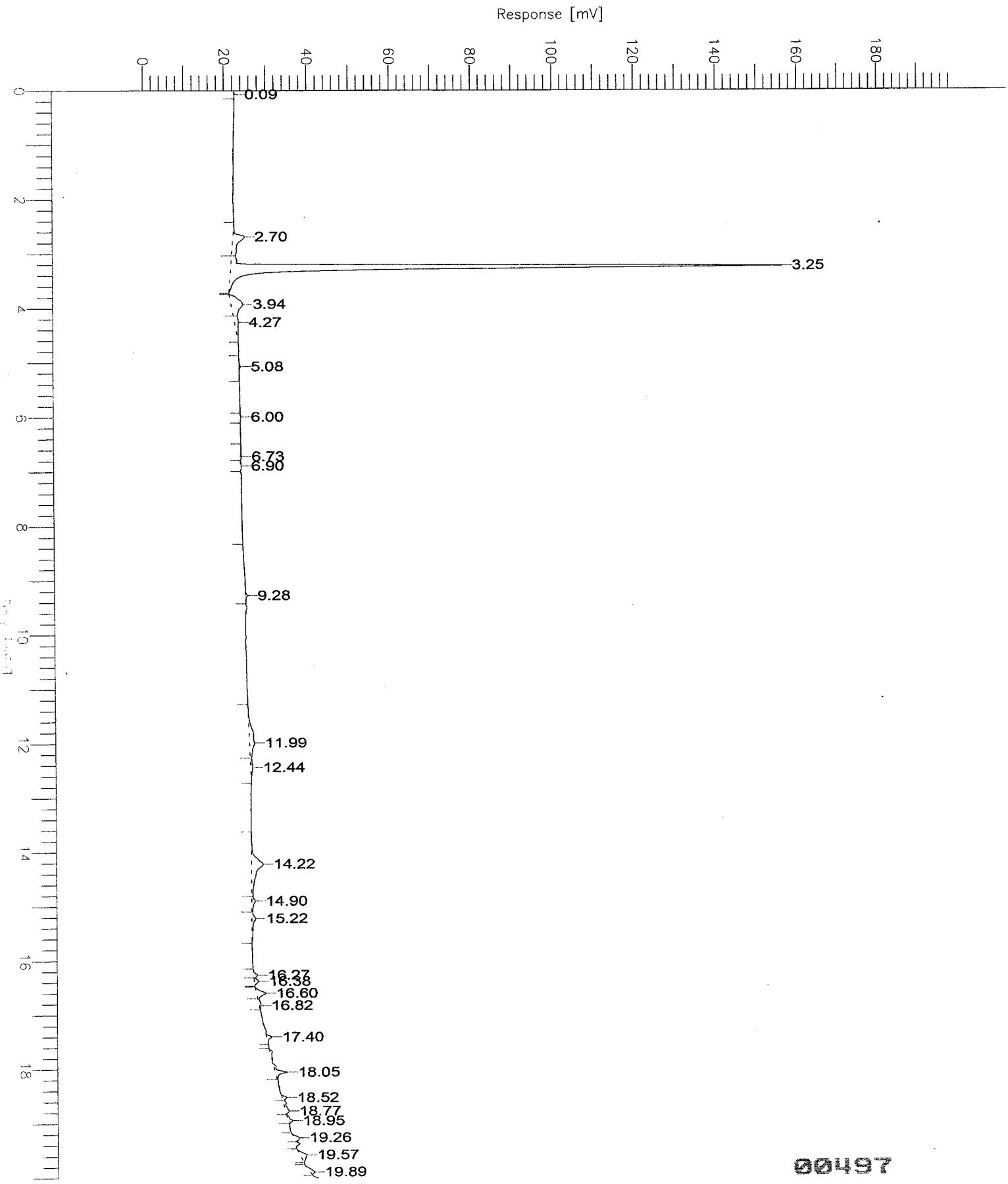
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.37 | 1,2-DIBROMOETHANE | -0.0006 | 142.41 | 3410.50 | 34 | 2 | -0.03200 | <MDL |
| 11.86 | 1,2-DIBROMO3CHLOROPR | -0.0003 | 55.31 | 1883.00 | 34 | 2 | -0.01469 | |
| | | | 197.72 | 5293.50 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY031.TX0

# Chromatogram

Sample Name : 1204454-02
FileName : C:\TC4\158\MAY2012\BMAY031.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/7/12 09:22
Time of Injection: 5/4/12 11:55
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00497

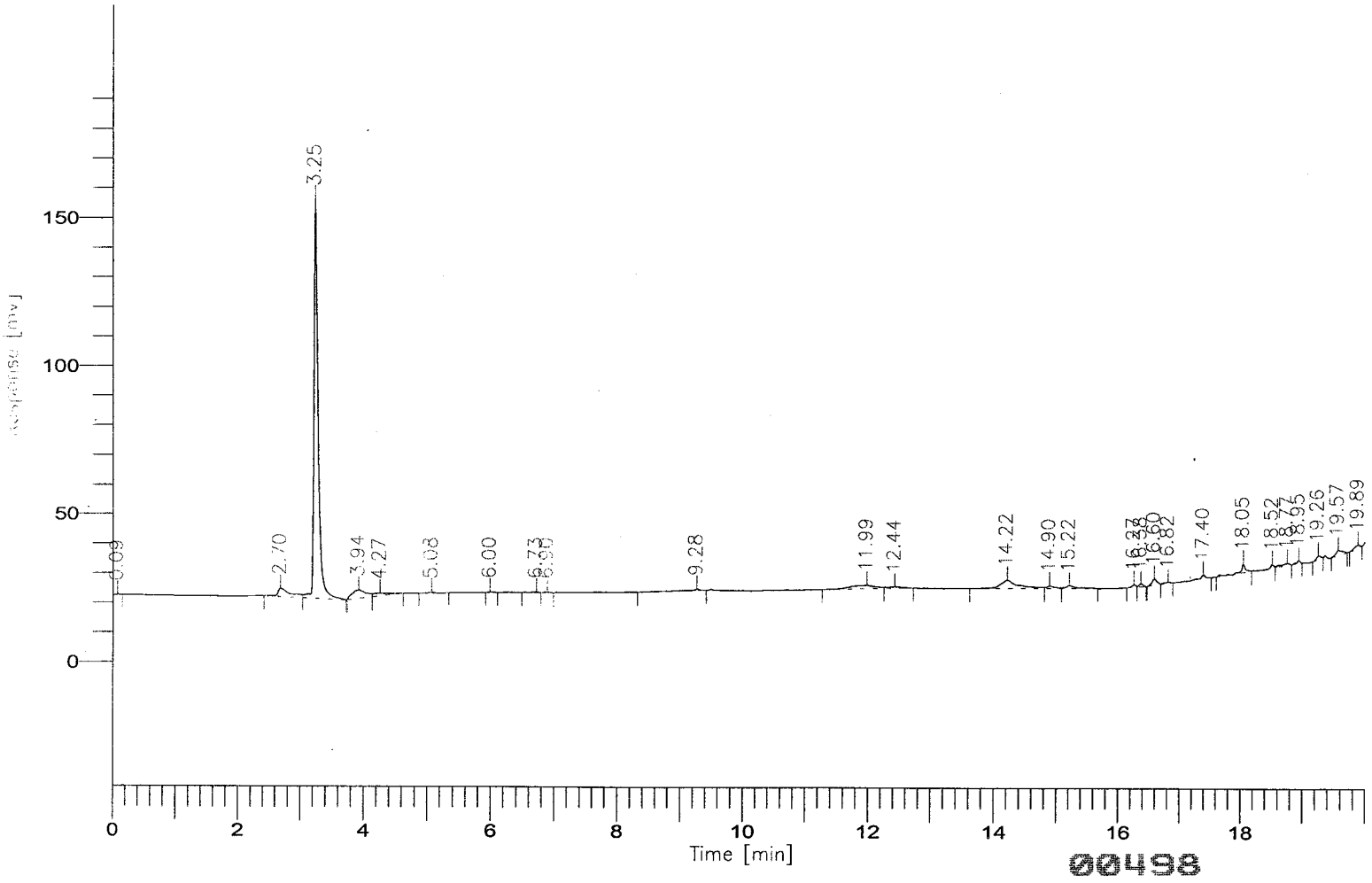
Software Version: 4.1<2F12>
Sample Name : 1204454-02 Time : 5/7/12 09:22
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 11:55
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY031.RAW
Result File : C:\TC4\158\MAY2012\BMAY031.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY031.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00498

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0000 | 0.00 | 0.00 | 34 | 2 | 0.00000 | <MDL |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 34 | 2 | 0.00000 | |
| | | | 0.00 | 0.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY031.TX0

# INITIAL CALIBRATION STANDARDS

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2D17019

SDG: KNM040512

Project: KNM

Calibration: 2D17008

Instrument: 158

| Standard ID | Description | Lab Sample ID | Lab File ID | Analysis Date/Time |
|---|---|---|---|---|
| 2040791 | 8011 L1 | 2D17019-CAL1 | AAPR291-0 | 04/16/12 13:12 |
| 2040792 | 8011 L2 | 2D17019-CAL2 | AAPR292-0 | 04/16/12 13:40 |
| 2040793 | 8011 L3 | 2D17019-CAL3 | AAPR293-0 | 04/16/12 14:08 |
| 2040794 | 8011 L4 | 2D17019-CAL4 | AAPR294-0 | 04/16/12 14:36 |
| 2040795 | 8011 L5 | 2D17019-CAL5 | AAPR295-0 | 04/16/12 15:04 |
| 2040796 | 8011 L6 | 2D17019-CAL6 | AAPR296-0 | 04/16/12 15:32 |
| 2040798 | 8011 SCV | 2D17019-SCV1 | AAPR297-0 | 04/16/12 16:01 |

# INITIAL CALIBRATION DATA

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D17008

SDG: KNM040512

Project: KNM

Calibration Date: 04/16/12 08:55

Instrument: 158

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ug/mL | RF | ug/mL | RF | ug/mL | RF | ug/mL | RF | ug/mL | RF | ug/mL | RF |
| 1,2-Dibromoethane | 0.00035 | 9095629 | 0.0007 | 8244758 | 0.0014 | 6952743 | 0.0028 | 6480425 | 0.0056 | 5881224 | 0.0112 | 5152579 |
| 1,2-Dibromo-3-chloropropane | 0.00035 | 1.003277E+07 | 0.0007 | 1.003157E+07 | 0.0014 | 8983372 | 0.0028 | 8939493 | 0.0056 | 8746040 | 0.0112 | 7970801 |

# INITIAL CALIBRATION DATA (Continued)

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D17008

SDG: KNM040512

Project: KNM

Calibration Date: 04/16/12 08:55

Instrument: 158

| Compound | Mean RF | RF RSD | Mean RT | RT RSD | Linear r | Quad COD | Limit | Q |
|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 6967893 | 21.16229 | 6.338333 | 0.1182205 | 0.99555 | | 0.99 | |
| 1,2-Dibromo-3-chloropropane | 9117342 | 8.741286 | 11.73333 | 0.0468301 | 0.99783 | | 0.99 | |

Turbochrom Method File : C:\TC4\158\8011ME~1\041612A.MTH
Created by : JDM on : 4/16/12 12:24
Edited by : BJH on : 4/16/12 15:57
Description :

Number of Times Edited : 3
Number of Times Calibrated : 177

---

**Instrument Conditions :**

**Instrument Control Method:**
Instrument name : 158

**Interface Parameters :**
Delay Time : 0.00 min.
Run Time : 20.00 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 1000 mV
Data will be collected from both channels

**Timed Events:**
There are no timed events in the method

**Real Time Plot Parameters :**
Channel A -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV
Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

**Processing Parameters :**
Bunch Factor : 1 points
Noise Threshold : 2 µV
Area Threshold : 11.00 µV

Peak Separation Criteria
Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria
Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

**Baseline Timed Events :**
Event #1 - +V at 4.885

**Annotated Replot Parameters :**
Offset & Scale set to absolute values
Plot Offset : 0.000 mV
Plot Scale : 80.000 mV

Number of Pages : 1

JD 4/18/12

Plot Title : Chromatogram
X-Axis Label : Time [min]
Y-Axis Label : Response [mV]
Orientation : Landscape
Retention Labels : Peak Crests
Component Labels : Actual Time
Start Time : 0.00
End Time : 20.00

**Report Format files :**
No report format files given

**User Programs :**
No user programs will be executed

**Global Information :**
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

**Component Information :**
1,2-DIBROMOETHANE
Component Type : Single Peak Component
Retention Time : 6.337 min Search Window: 3.00 s, 1.70 %
Reference Component:
Find peak closest to expected RT in window
Calibrating Height versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

| Level Name | Amount | Area | Height | ISTD Resp. | ISTD Amt. | # Replicates |
|---|---|---|---|---|---|---|
| 1 | 0.0003 | 17327.50 | 3183.47 | ---------- | ---------- | 1 |
| 2 | 0.0007 | 26708.50 | 5771.33 | ---------- | ---------- | 1 |
| 3 | 0.0014 | 40757.00 | 9733.84 | ---------- | ---------- | 1 |
| 4 | 0.0028 | 72337.00 | 18145.19 | ---------- | ---------- | 1 |
| 5 | 0.0056 | 129453.00 | 32934.85 | ---------- | ---------- | 1 |
| 6 | 0.0112 | 230082.00 | 57708.88 | ---------- | ---------- | 1 |

Calibration Curve : y = (2903.637087) + (5002533.024348)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.995855

1,2-DIBROMO3CHLOROPROPANE
Component Type : Single Peak Component
Retention Time : 11.732 min Search Window: 3.00 s, 1.70 %

Reference Component:
Find peak closest to expected RT in window
Calibrating Height versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

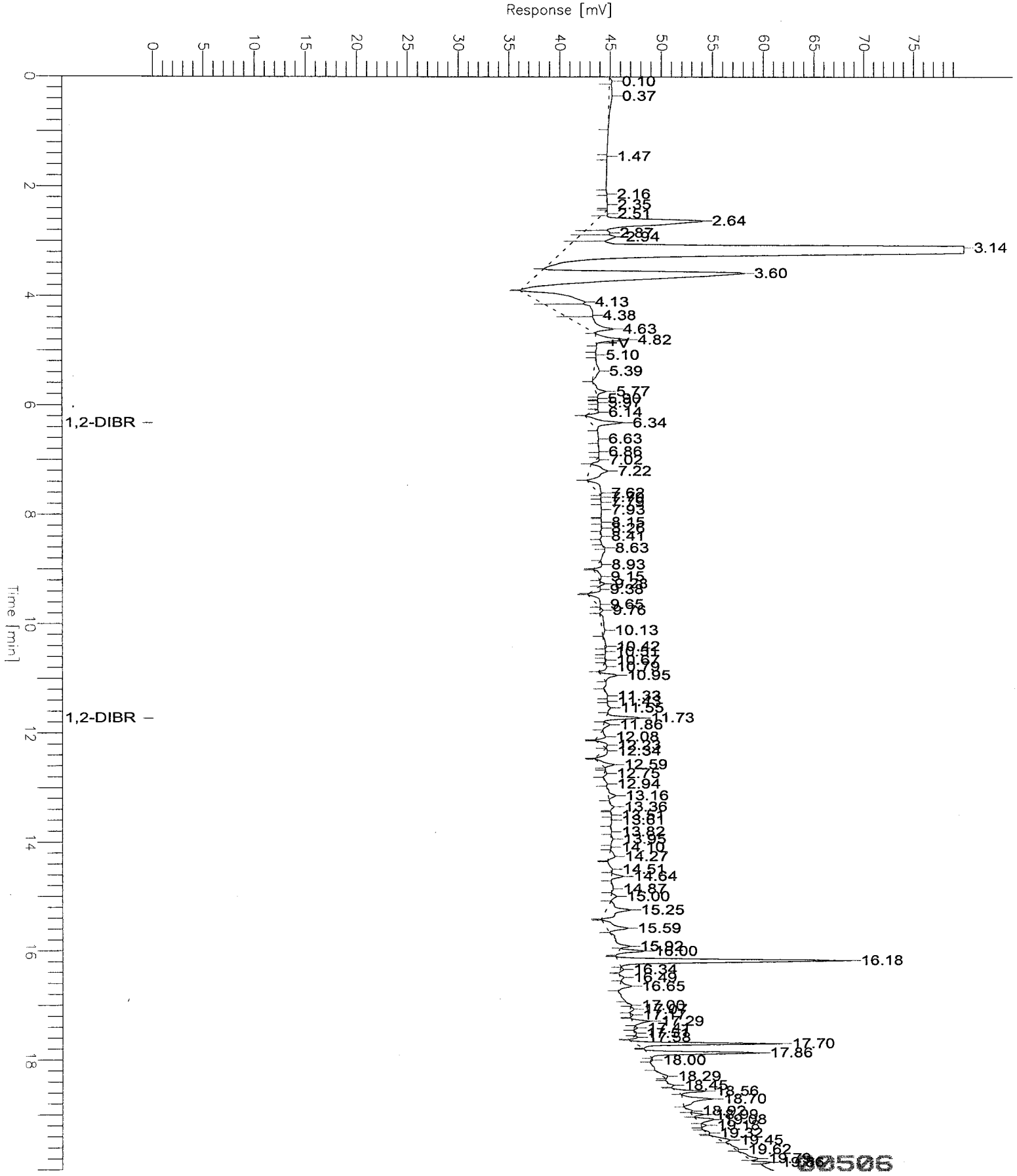
| Level Name | Amount | Area | Height | ISTD Resp. | ISTD Amt. | # Replicates |
|---|---|---|---|---|---|---|
| 1 | 0.0003 | 11022.00 | 3511.47 | ---------- | ---------- | 1 |
| 2 | 0.0007 | 25505.00 | 7022.10 | ---------- | ---------- | 1 |
| 3 | 0.0014 | 45554.00 | 12576.72 | ---------- | ---------- | 1 |
| 4 | 0.0028 | 88903.00 | 25030.58 | ---------- | ---------- | 1 |
| 5 | 0.0056 | 175196.50 | 48977.82 | ---------- | ---------- | 1 |
| 6 | 0.0112 | 326154.00 | 89272.96 | ---------- | ---------- | 1 |

Calibration Curve : y = (2060.313583) + (7910443.782468)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997983

# Chromatogram

Sample Name : L1
FileName : C:\TC4\158\APRIL2~1\AAPR291.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 13:12
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



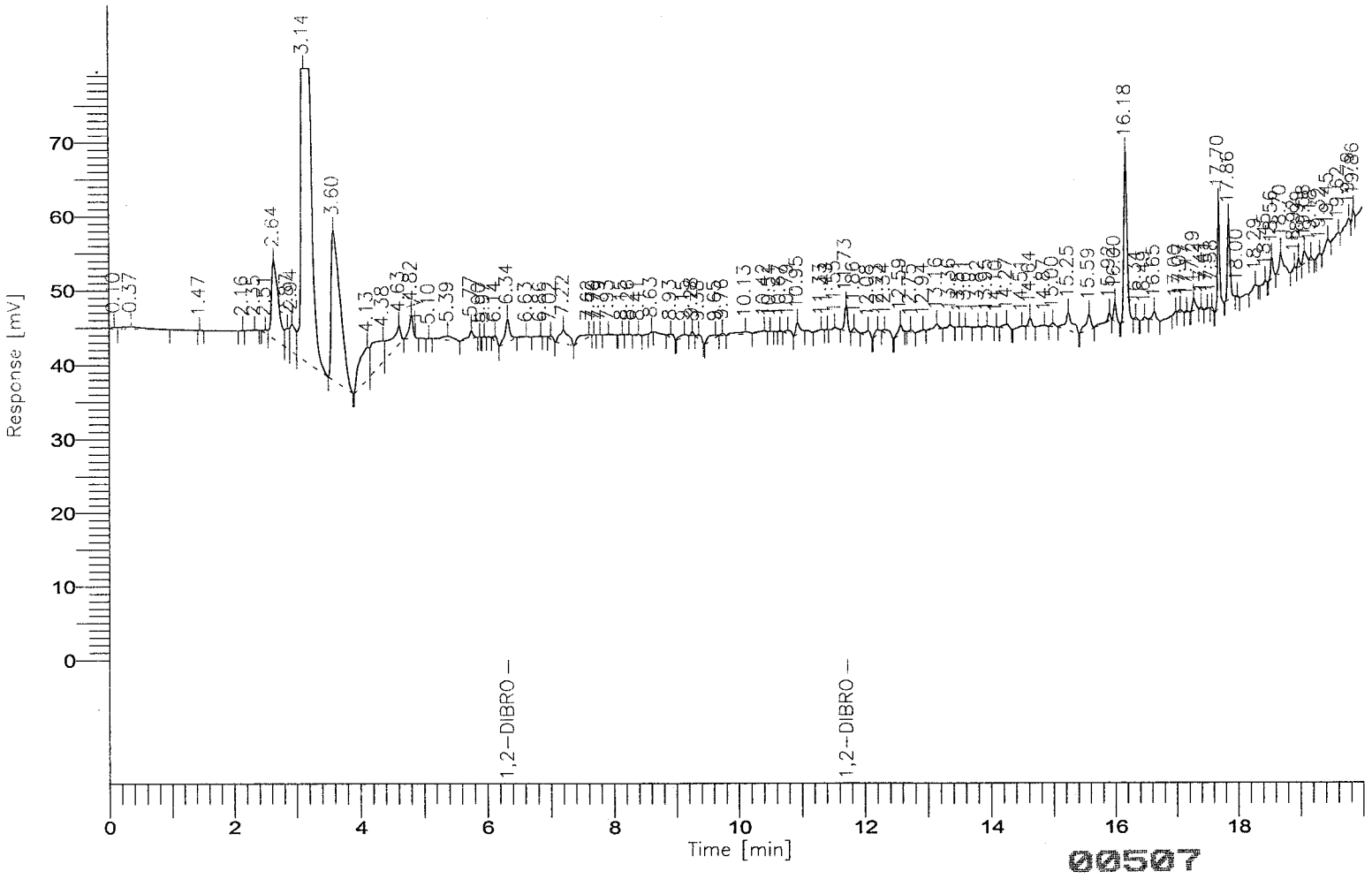
Software Version: 4.1<2F12>
Sample Name : L1 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 13:12
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR291.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR291.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR291.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

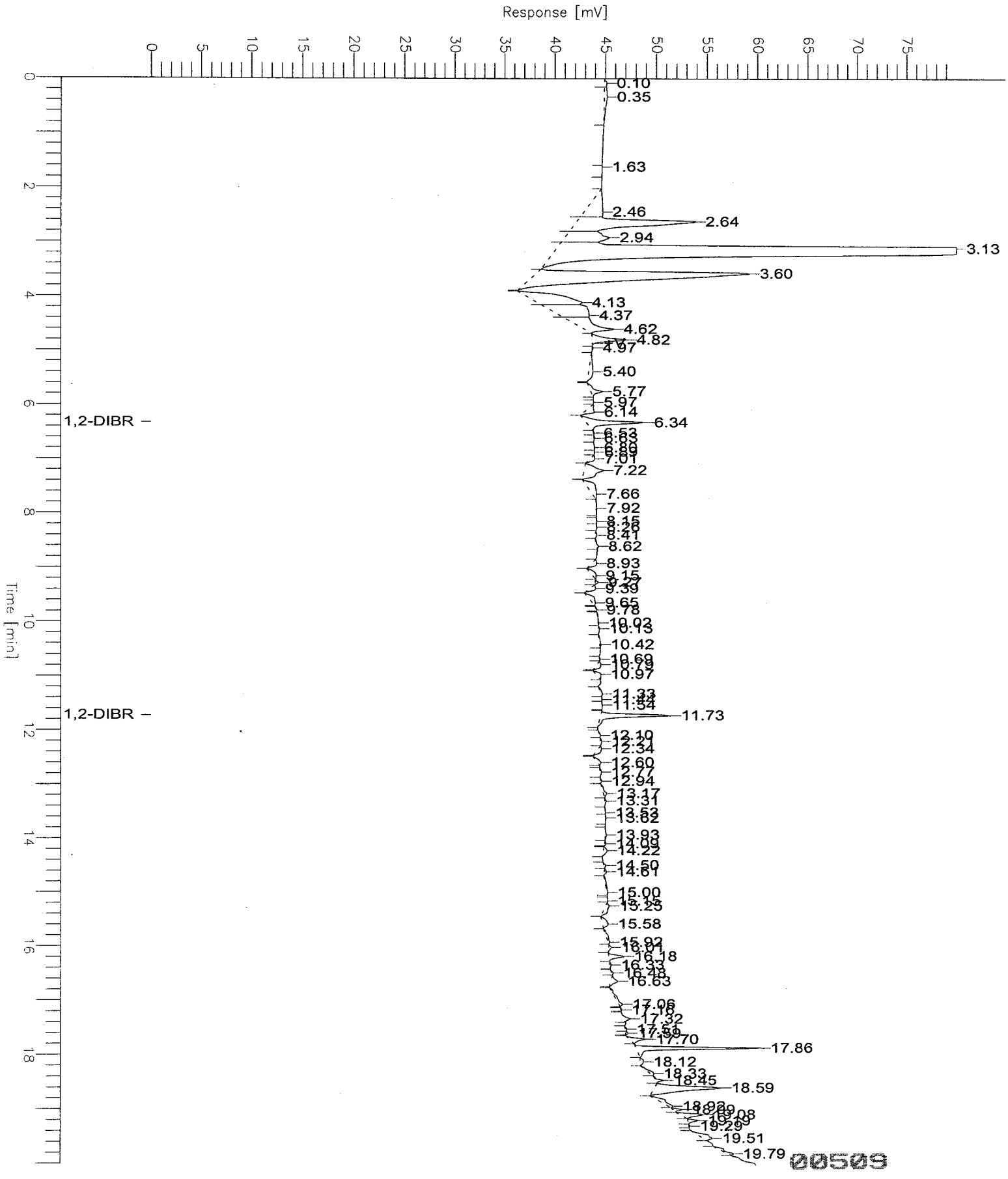
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | 0.0001 | 3183.47 | 17327.50 | 35 | 2 | 0.00320 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0002 | 3511.47 | 11022.00 | 35 | 2 | 0.01048 |
| | | | 6694.93 | 28349.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR291.TX0

# Chromatogram

Sample Name : L2
FileName : C:\TC4\158\APRIL2~1\AAPR292.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 13:40
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



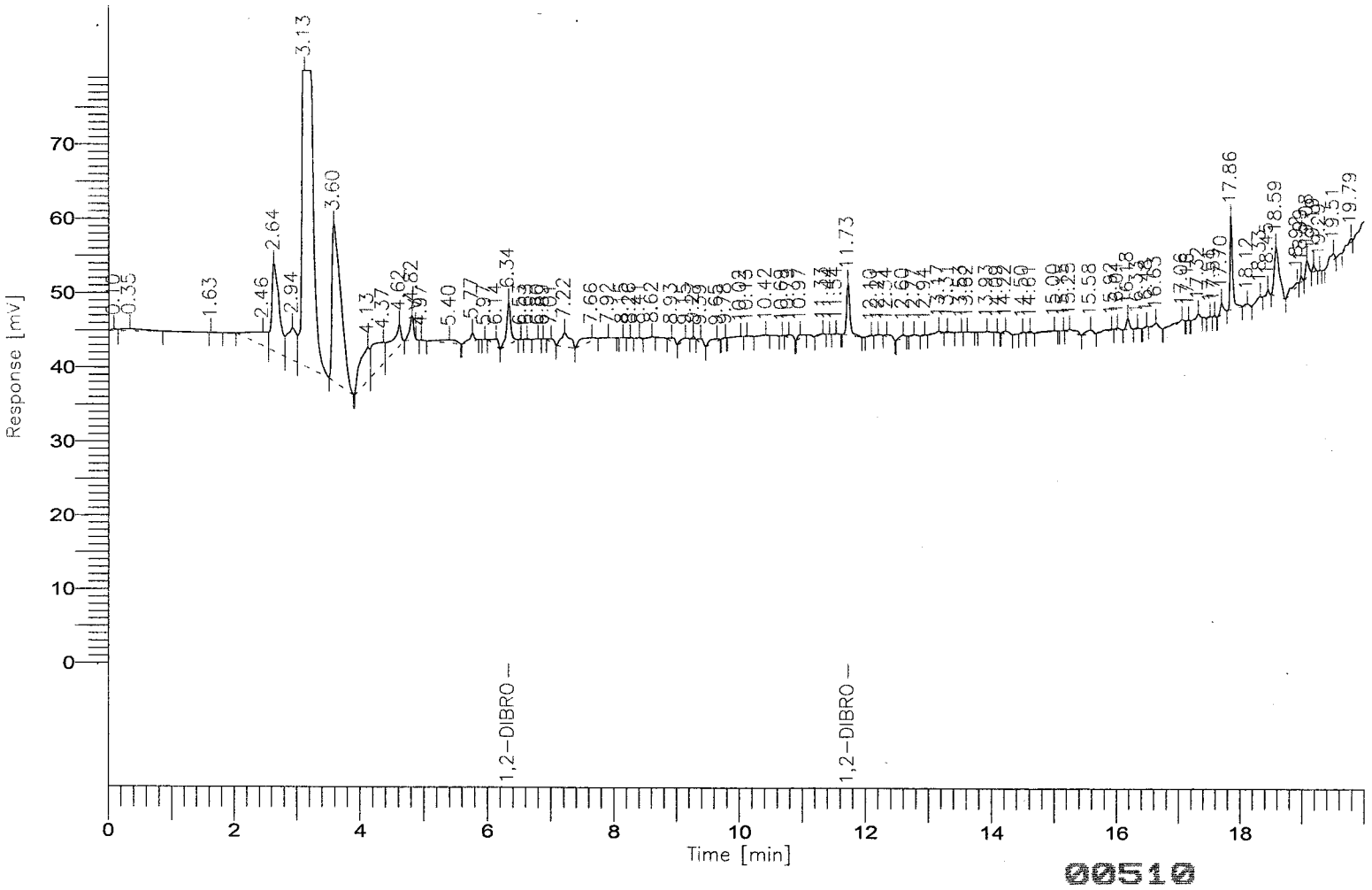
Software Version: 4.1<2F12>
Sample Name : L2 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 13:40
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR292.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR292.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR292.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00510

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

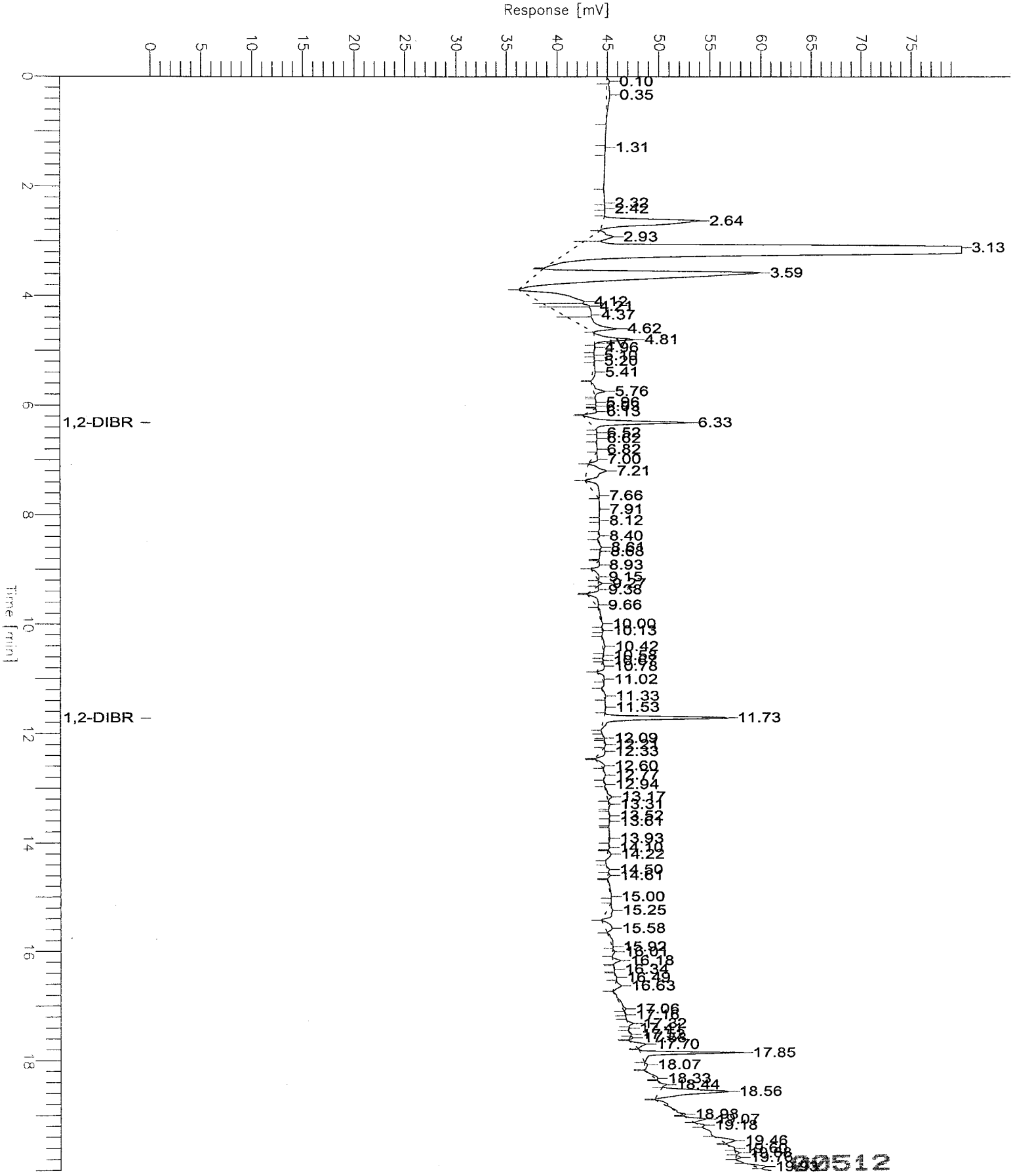
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | 0.0006 | 5771.33 | 26708.50 | 35 | 2 | 0.03276 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0006 | 7022.10 | 25505.00 | 35 | 2 | 0.03584 |
| | | | 12793.43 | 52213.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR292.TX0

# Chromatogram

Sample Name : L3
FileName : C:\TC4\158\APRIL2~1\AAPR293.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 14:08
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00512

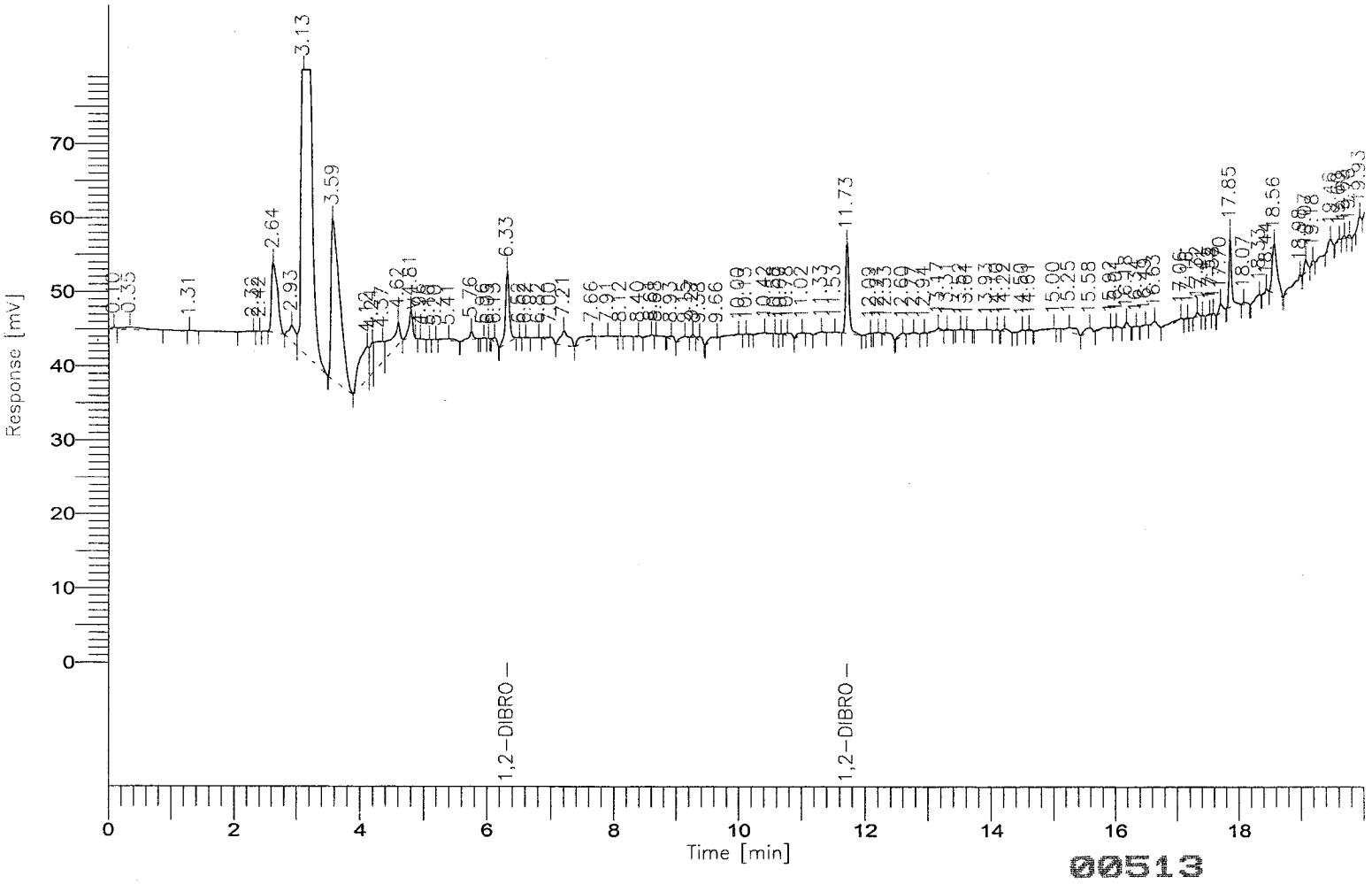
Software Version: 4.1<2F12>
Sample Name : L3 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 14:08
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR293.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR293.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR293.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

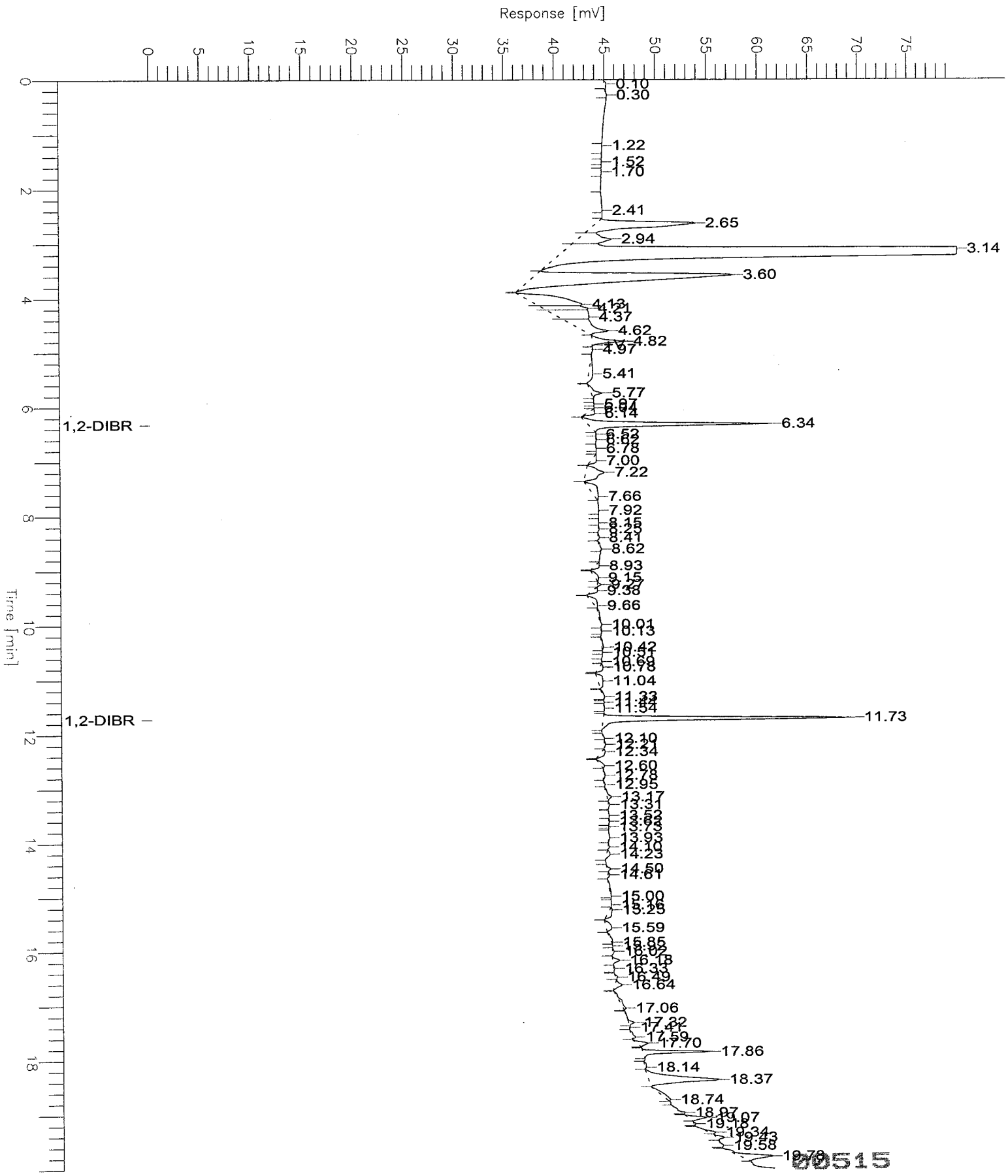
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.33 | 1,2-DIBROMOETHANE | 0.0014 | 9733.84 | 40757.00 | 35 | 2 | 0.07802 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0013 | 12576.72 | 45554.00 | 35 | 2 | 0.07597 |
| | | | 22310.56 | 86311.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR293.TX0

# Chromatogram

Sample Name : L4
FileName : C:\TC4\158\APRIL2~1\AAPR294.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 14:36
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00515

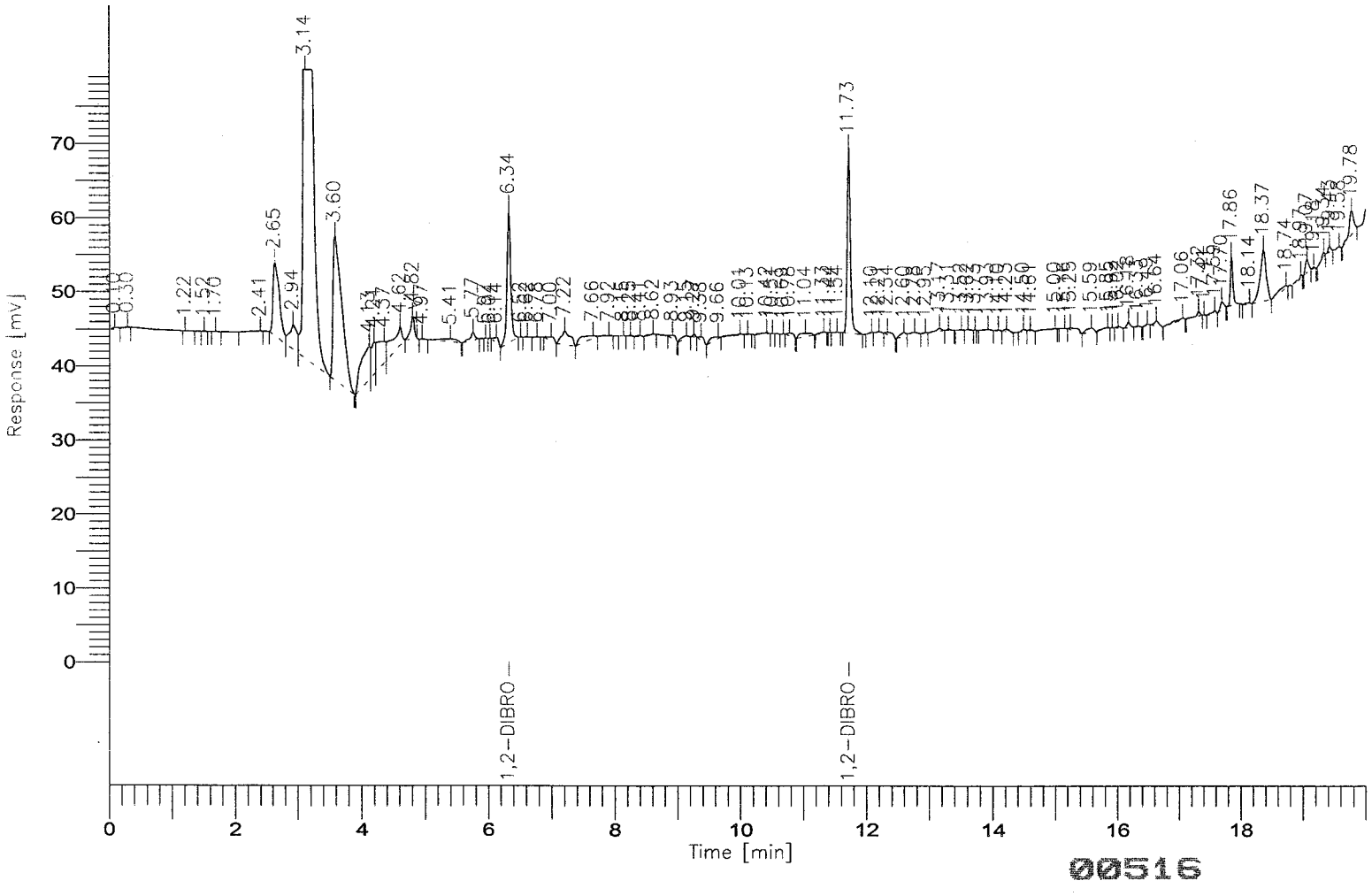
Software Version: 4.1<2F12>
Sample Name : L4 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 14:36
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR294.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR294.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR294.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00516

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

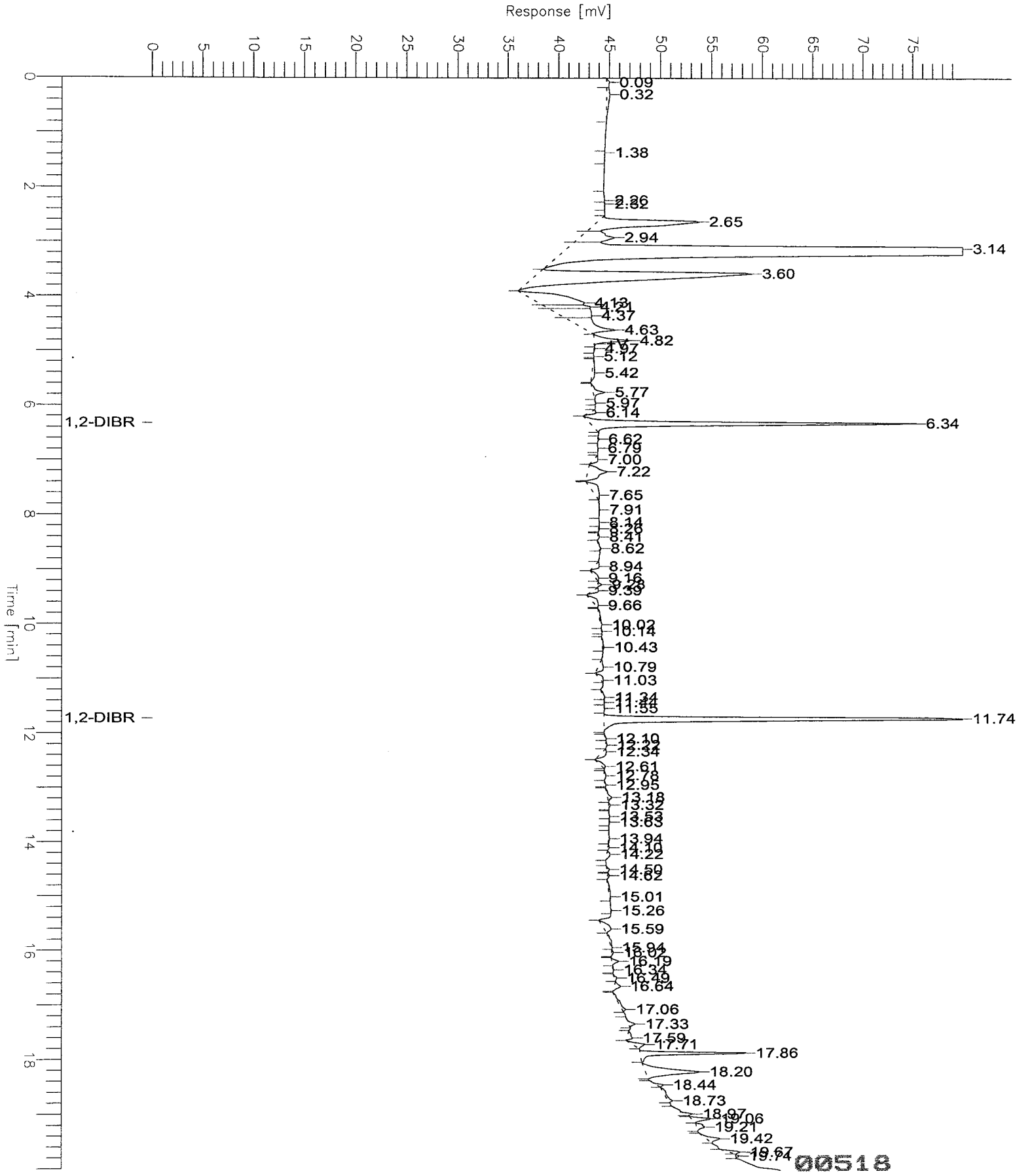
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.33 | 1,2-DIBROMOETHANE | 0.0030 | 18145.19 | 72337.00 | 35 | 2 | 0.17410 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0029 | 25030.58 | 88903.00 | 35 | 2 | 0.16593 |
| | | | 43175.77 | 161240.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR294.TX0

# Chromatogram

Sample Name : L5
FileName : C:\TC4\158\APRIL2~1\AAPR295.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 15:04
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00518

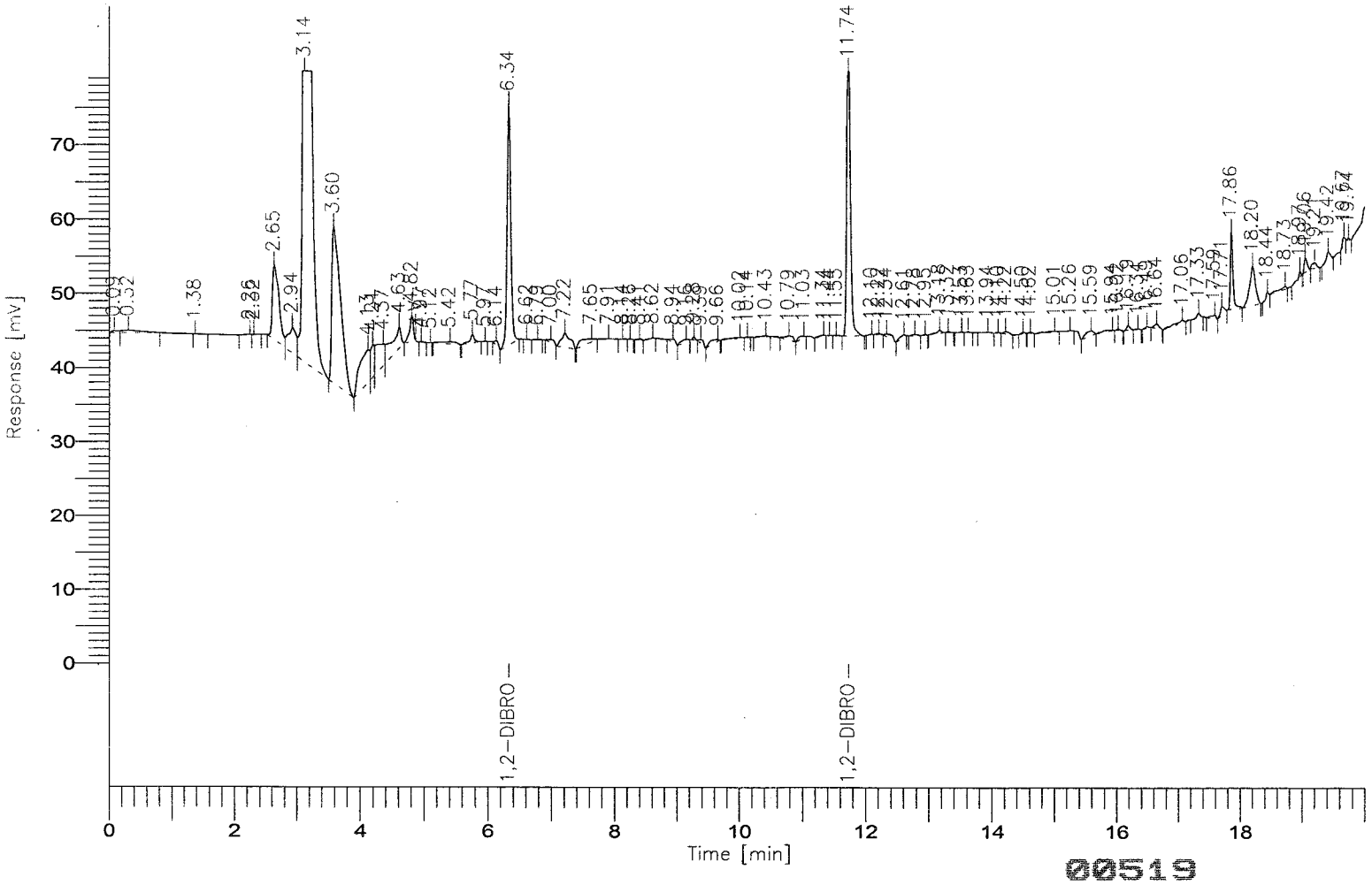
Software Version: 4.1<2F12>
Sample Name : L5 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 15:04
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR295.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR295.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR295.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00519

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

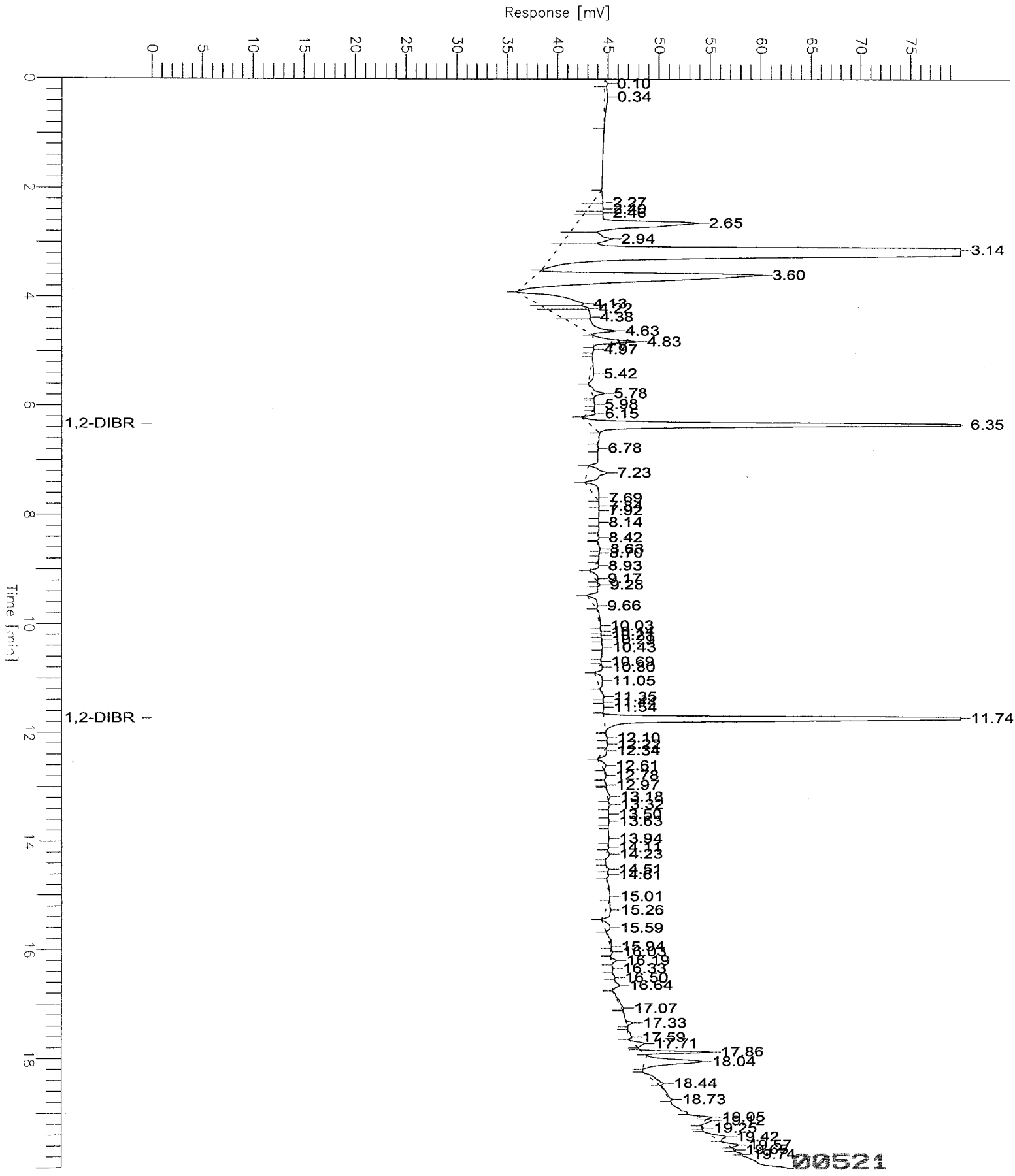
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | 0.0060 | 32934.85 | 129453.00 | 35 | 2 | 0.34304 |
| 11.74 | 1,2-DIBROMO3CHLOROPR | 0.0059 | 48977.82 | 175196.50 | 35 | 2 | 0.33892 |
| | | | 81912.67 | 304649.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR295.TX0

# Chromatogram

Sample Name : L6
FileName : C:\TC4\158\APRIL2~1\AAPR296.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 15:32
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00521

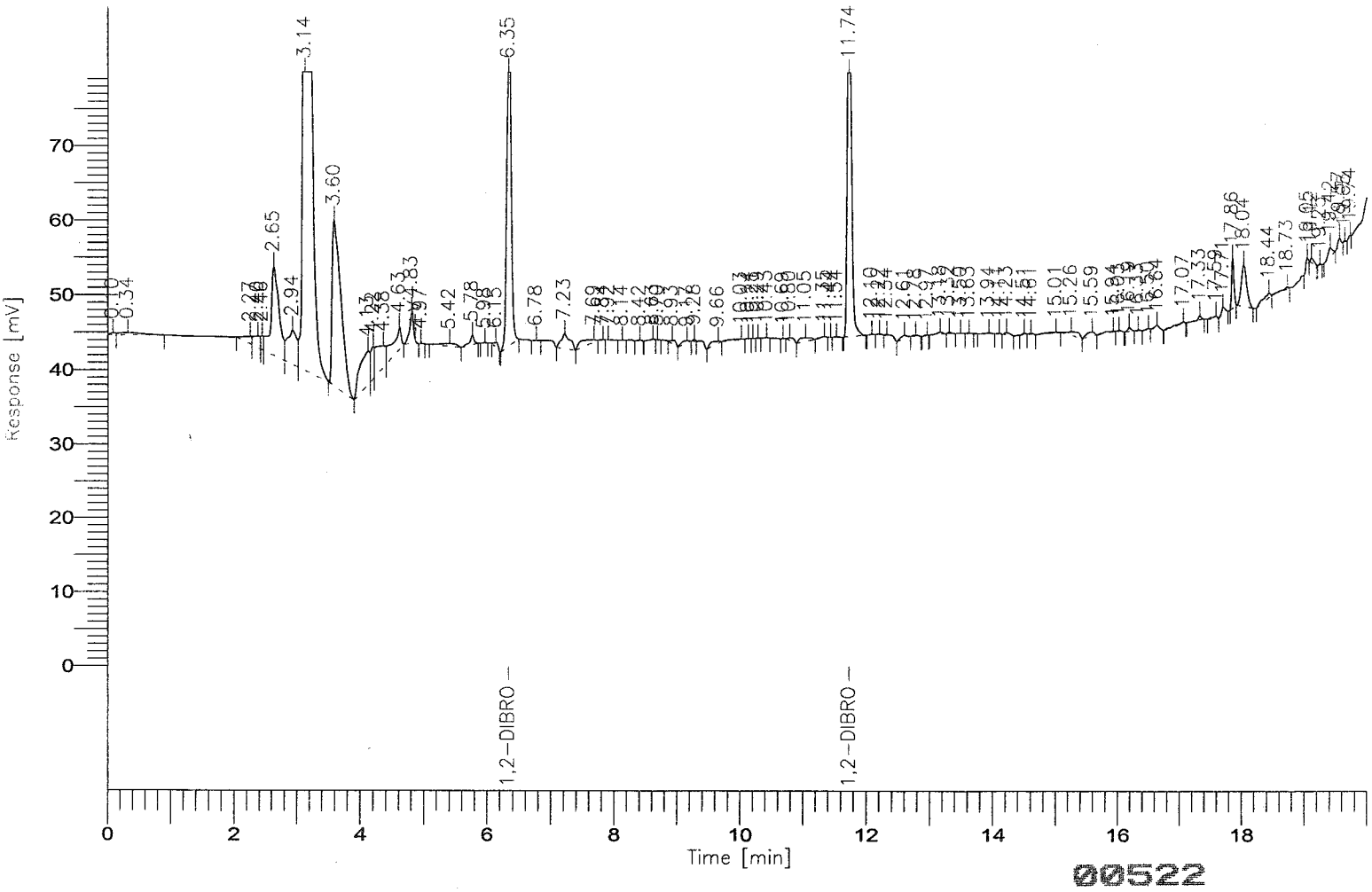
Software Version: 4.1<2F12>
Sample Name : L6 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 15:32
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR296.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR296.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR296.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00522

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.35 | 1,2-DIBROMOETHANE | 0.0110 | 57708.88 | 230082.00 | 35 | 2 | 0.62603 |
| 11.74 | 1,2-DIBROMO3CHLOROPR | 0.0110 | 89272.96 | 326154.00 | 35 | 2 | 0.63000 |
| | | | 146981.84 | 556236.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR296.TX0

Turbochrom Method File : C:\TC4\158\8011ME~1\041612B.MTH
Created by : JDM on : 4/16/12 12:25
Edited by : BJH on : 4/16/12 16:01
Description :

Number of Times Edited : 1
Number of Times Calibrated : 193

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**Instrument Conditions :**

**Instrument Control Method:**
Instrument name : 158

**Interface Parameters :**
Delay Time : 0.00 min.
Run Time : 29.50 min.
Sampling Rate : 1.0000 pts/s
Interface Type : 900
Analog Voltage Input : 1000 mV
Data will be collected from both channels

**Timed Events:**
There are no timed events in the method

**Real Time Plot Parameters :**
Channel A -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV
Channel B -- Pages: 1 Offset: 0.000 mV Scale: 1000.000 mV

**Processing Parameters :**
Bunch Factor : 2 points
Noise Threshold : 24 µV
Area Threshold : 119.00 µV

Peak Separation Criteria
Width Ratio : 0.200
Valley-to-Peak Ratio : 0.010

Exponential Skim Criteria
Peak Height Ratio : 5.000
Adjusted Height Ratio : 4.000
Valley Height Ratio : 3.000

**Baseline Timed Events :**
No baseline timed events

**Annotated Replot Parameters :**
Offset & Scale set to absolute values
Plot Offset : 0.000 mV
Plot Scale : 200.000 mV

Number of Pages : 1

Plot Title : Chromatogram
X-Axis Label : Time [min]
Y-Axis Label : Response [mV]
Orientation : Landscape
Retention Labels : Peak Crests
Component Labels : Actual Time
Start Time : 0.00
End Time : 20.00

**Report Format files :**
No report format files given

**User Programs :**
No user programs will be executed

**Global Information :**
Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will be quantitated using a response factor of 1.000000e+06

**Component Information :**
1,2-DIBROMOETHANE (2C)
Component Type : Single Peak Component
Retention Time : 7.108 min Search Window: 3.00 s, 1.70 %
Reference Component:
Find peak closest to expected RT in window
Calibrating Height versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

| Level Name | Amount | Area | Height | ISTD Resp. | ISTD Amt. | # Replicates |
|---|---|---|---|---|---|---|
| 1 | 0.0003 | 3418.00 | 487.79 | ---------- | ---------- | 1 |
| 2 | 0.0007 | 4471.00 | 720.93 | ---------- | ---------- | 1 |
| 3 | 0.0014 | 22413.00 | 3623.67 | ---------- | ---------- | 1 |
| 4 | 0.0028 | 31799.50 | 6369.07 | ---------- | ---------- | 1 |
| 5 | 0.0056 | 45306.00 | 11176.39 | ---------- | ---------- | 1 |
| 6 | 0.0112 | 84652.00 | 21188.26 | ---------- | ---------- | 1 |

Calibration Curve : y = (322.490765) + (1892325.678532)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.993018

1,2-DBCP (2C)
Component Type : Single Peak Component
Retention Time : 12.978 min Search Window: 3.00 s, 1.70 %

Reference Component:
Find peak closest to expected RT in window
Calibrating Height versus Amount using a 1st Order Fit
Curve will ignore the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

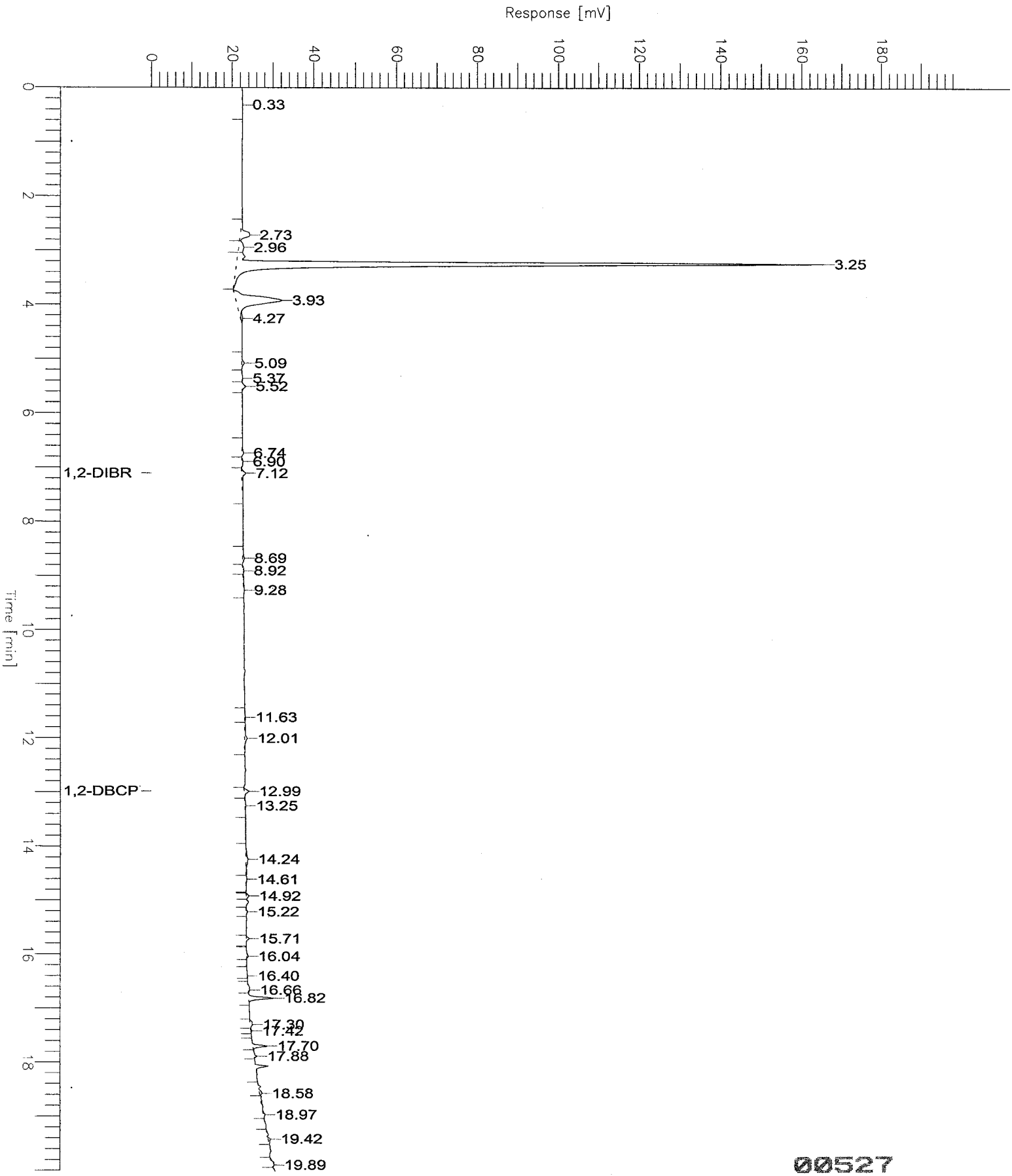
| Level Name | Amount | Area | Height | ISTD Resp. | ISTD Amt. | # Replicates |
|---|---|---|---|---|---|---|
| 1 | 0.0003 | 1039.87 | 282.39 | ---------- | ---------- | 1 |
| 2 | 0.0007 | 1787.20 | 500.38 | ---------- | ---------- | 1 |
| 3 | 0.0014 | 12372.00 | 3752.30 | ---------- | ---------- | 1 |
| 4 | 0.0028 | 24478.00 | 7290.01 | ---------- | ---------- | 1 |
| 5 | 0.0056 | 48136.00 | 14557.88 | ---------- | ---------- | 1 |
| 6 | 0.0112 | 96438.00 | 28813.54 | ---------- | ---------- | 1 |

Calibration Curve : y = (-461.663143) + (2634840.443746)x + (0.000000)x^2 + (0.000000)x^3
R-squared : 0.997804

# Chromatogram

Sample Name : L1
FileName : C:\TC4\158\APRIL2~1\BAPR291.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 13:12
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00527

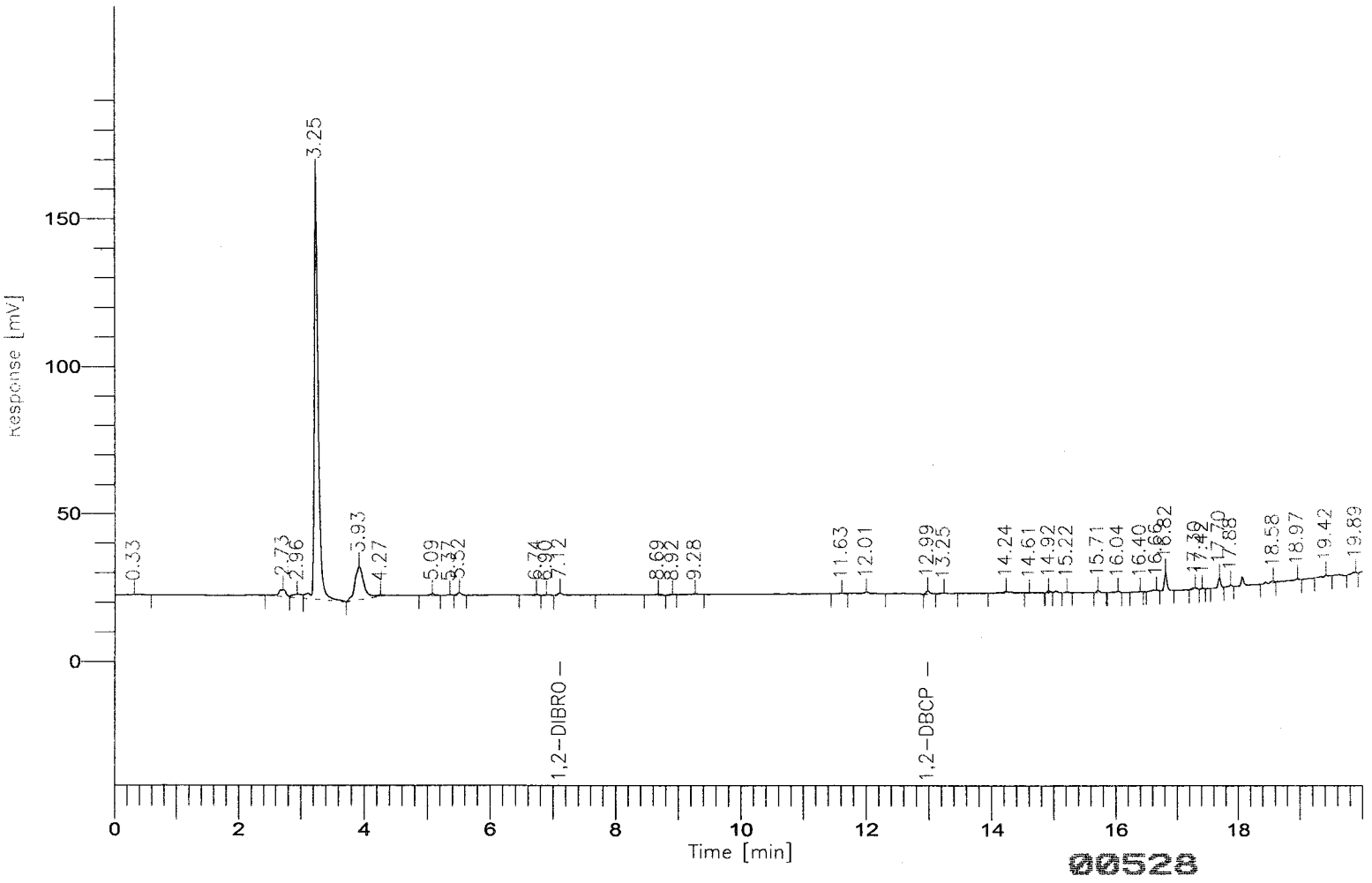
Software Version: 4.1<2F12>
Sample Name : L1 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 13:12
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR291.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR291.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR291.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00528

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

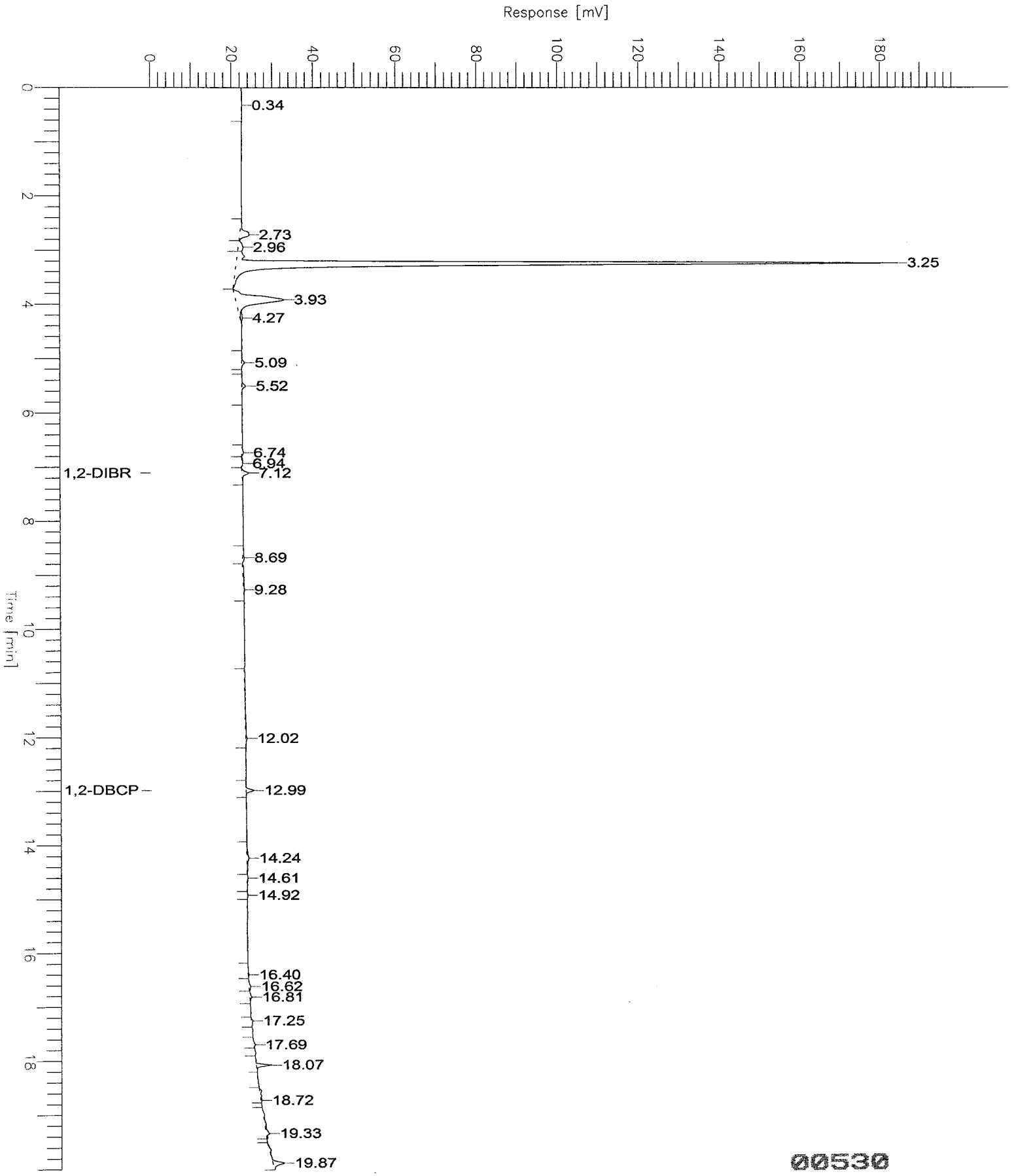
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0004 | 990.96 | 8504.00 | 35 | 2 | 0.02019 |
| 12.99 | 1,2-DBCP (2C) | 0.0006 | 1212.26 | 5629.36 | 35 | 2 | 0.03630 |
| | | | 2203.22 | 14133.36 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR291.TX0

# Chromatogram

Sample Name : L2
FileName : C:\TC4\158\APRIL2~1\BAPR292.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 13:40
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00530

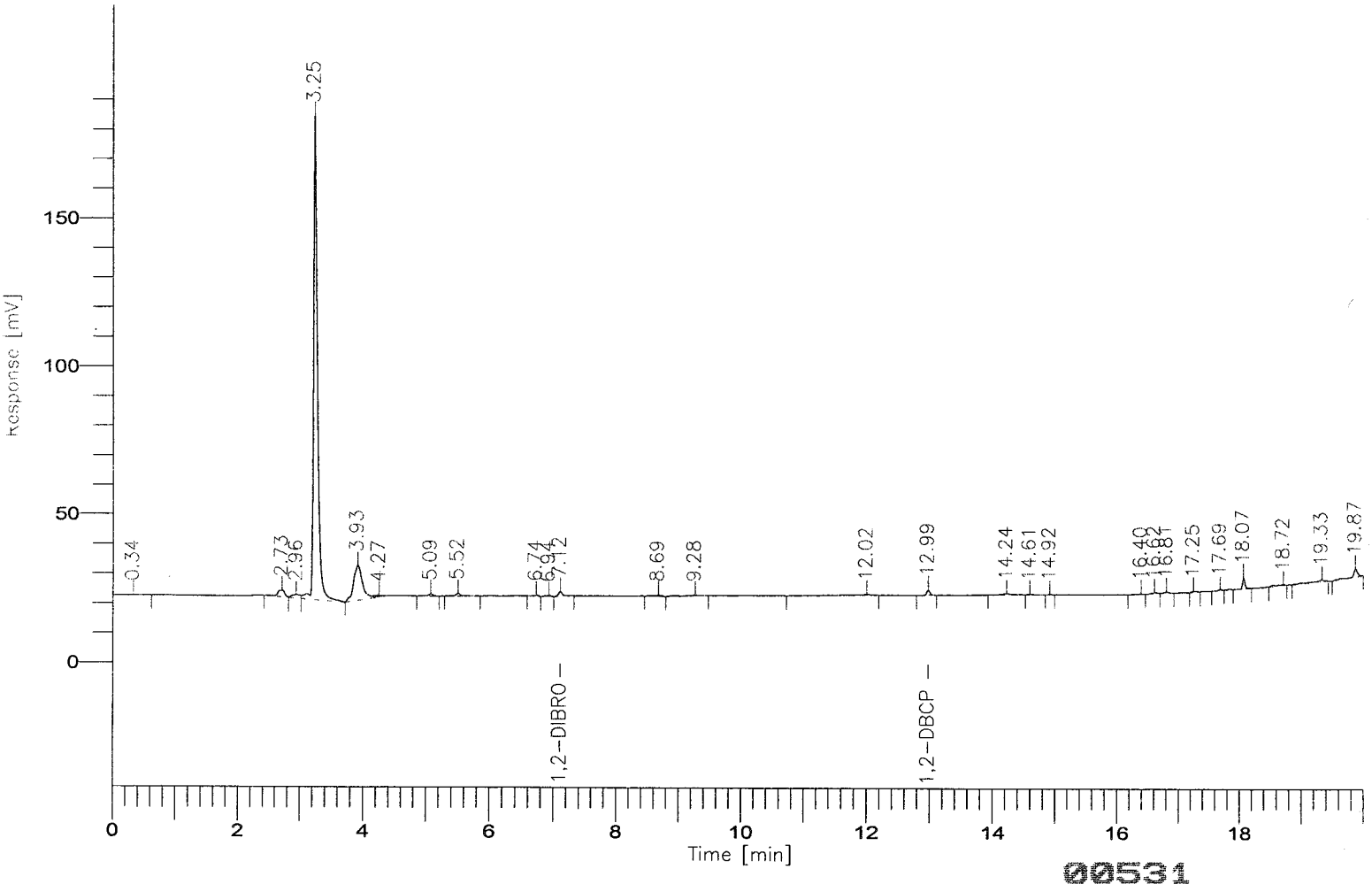
Software Version: 4.1<2F12>
Sample Name : L2 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 13:40
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR292.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR292.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR292.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00531

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

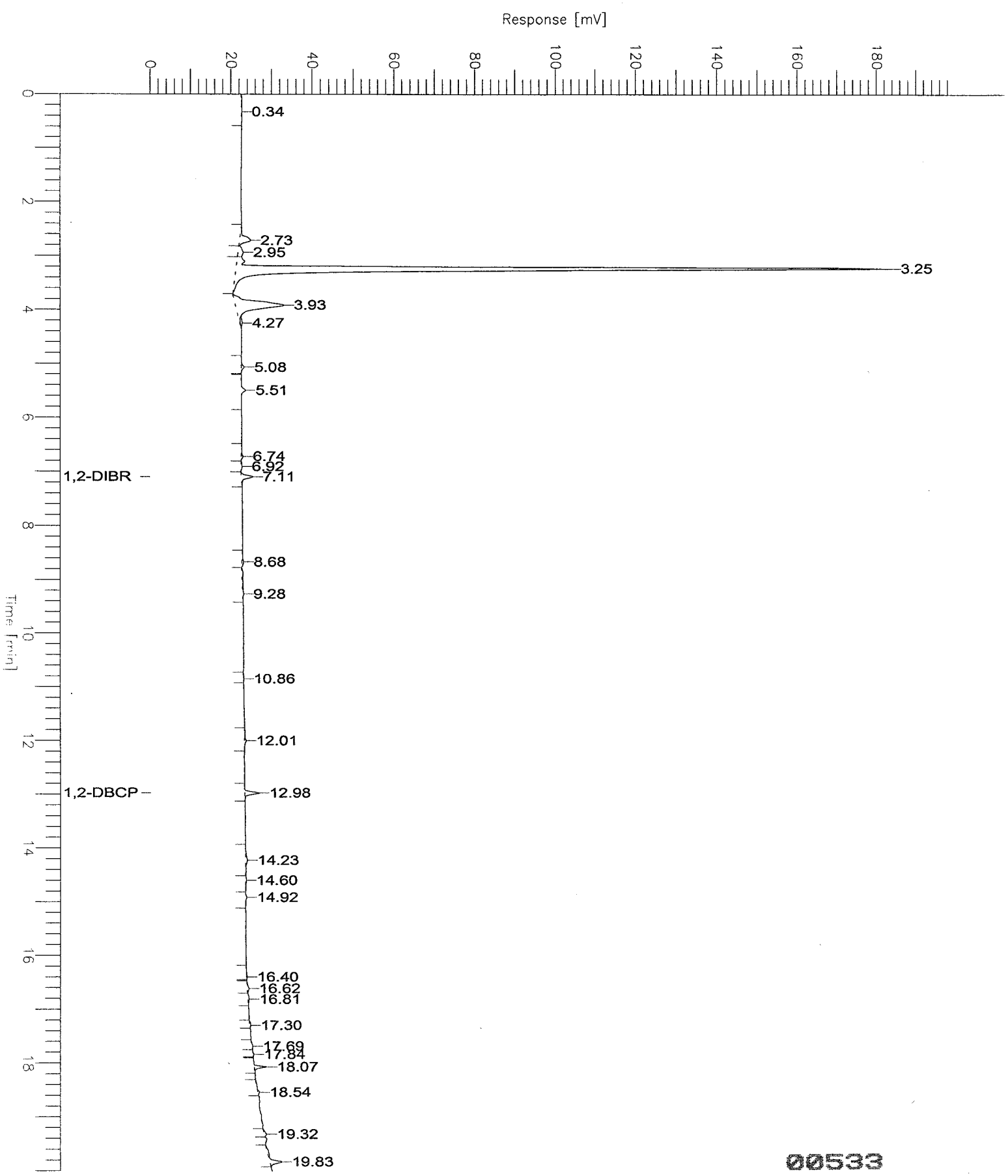
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0007 | 1721.79 | 7858.50 | 35 | 2 | 0.04225 |
| 12.99 | 1,2-DBCP (2C) | 0.0009 | 1956.85 | 6371.00 | 35 | 2 | 0.05245 |
| | | | 3678.64 | 14229.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR292.TX0

# Chromatogram

Sample Name : L3
FileName : C:\TC4\158\APRIL2~1\BAPR293.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 14:08
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00533

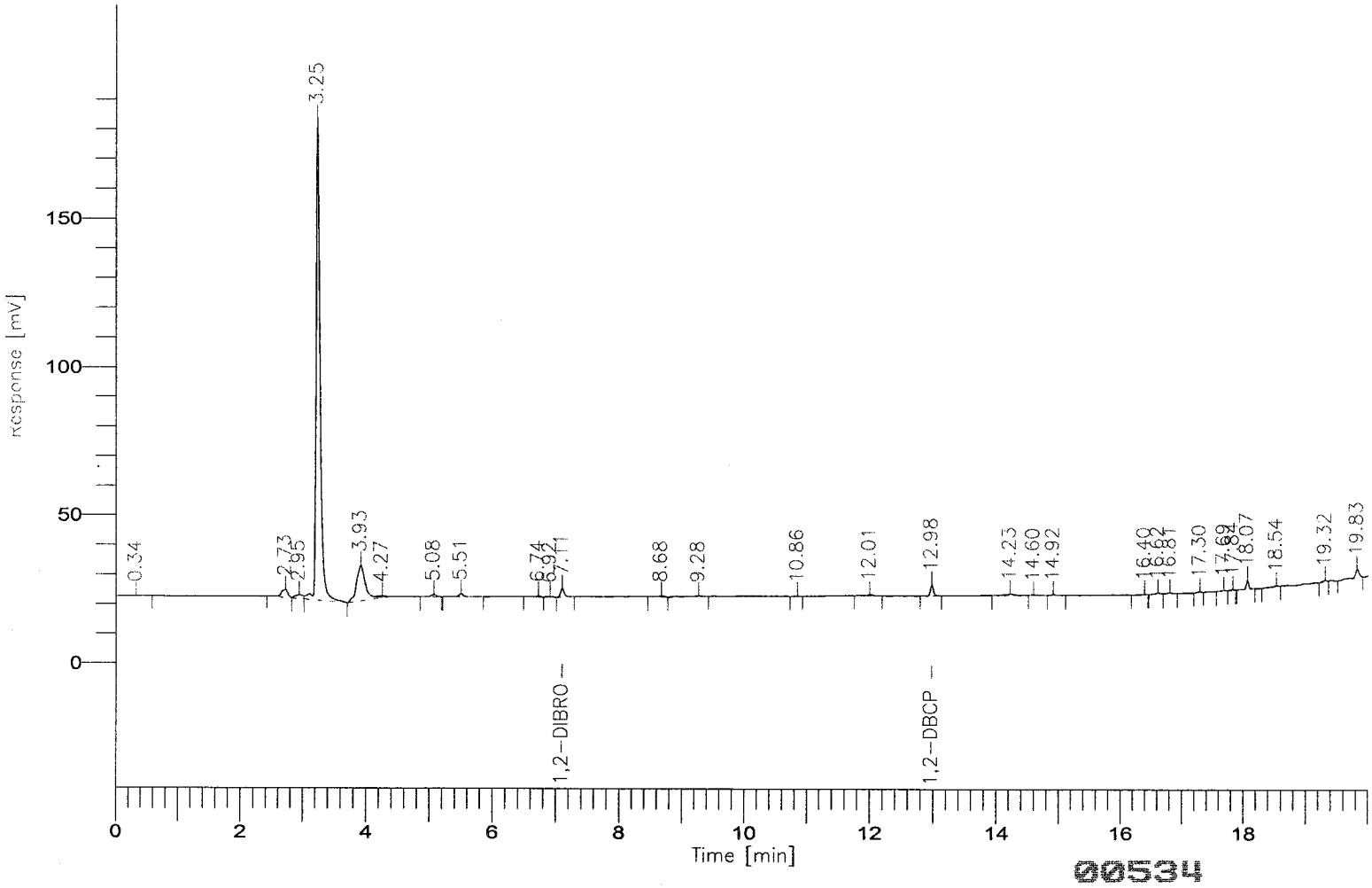
Software Version: 4.1<2F12>
Sample Name : L3 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 14:08
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR293.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR293.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR293.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00534

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

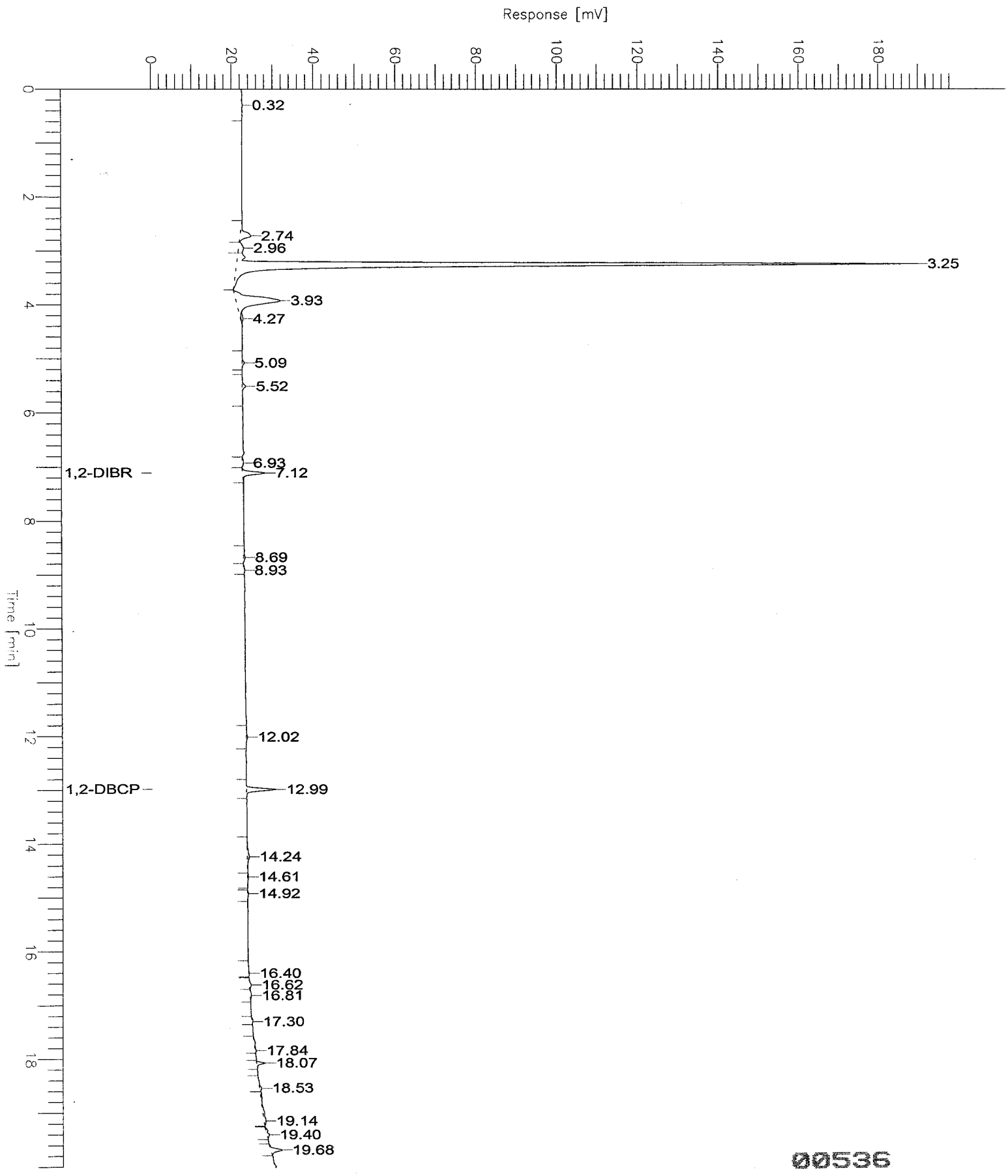
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0014 | 2941.79 | 11890.00 | 35 | 2 | 0.07910 |
| 12.98 | 1,2-DBCP (2C) | 0.0016 | 3660.54 | 12215.00 | 35 | 2 | 0.08940 |
| | | | 6602.34 | 24105.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR293.TX0

# Chromatogram

Sample Name : L4
FileName : C:\TC4\158\APRIL2~1\BAPR294.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 14:36
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00536

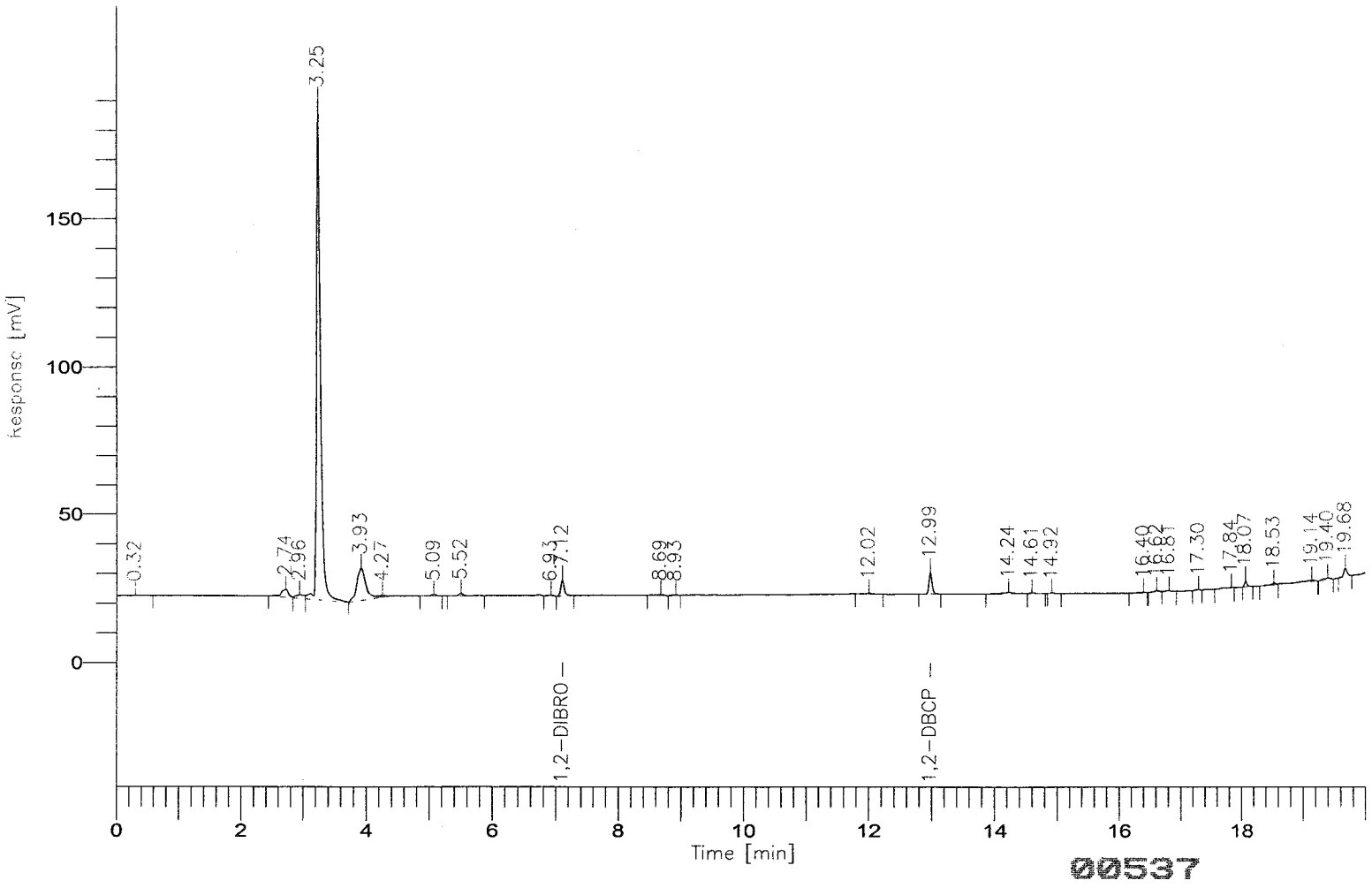
Software Version: 4.1<2F12>
Sample Name : L4 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 14:36
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR294.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR294.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR294.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00537

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

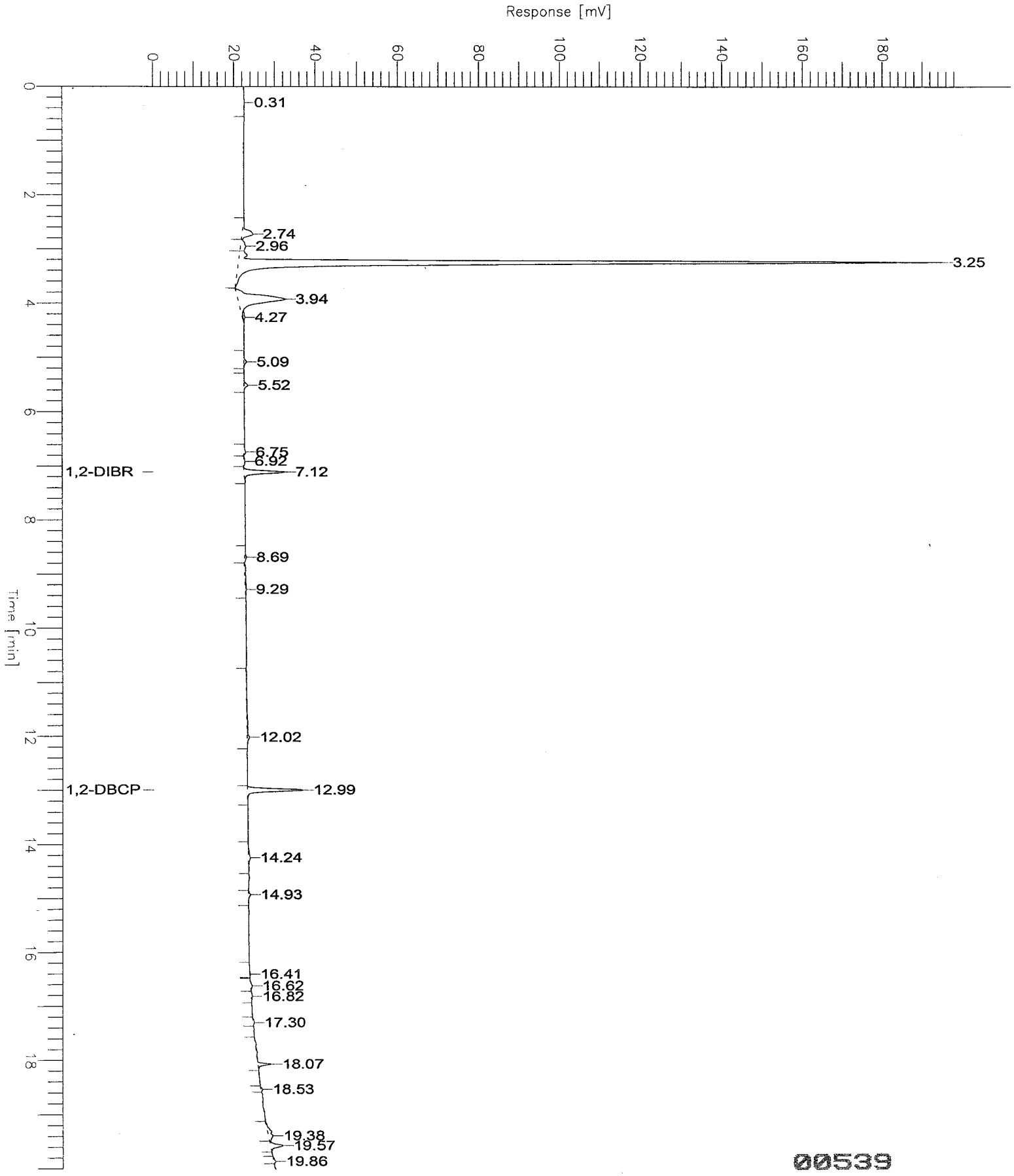
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0028 | 5629.48 | 20997.50 | 35 | 2 | 0.16026 |
| 12.99 | 1,2-DBCP (2C) | 0.0030 | 7349.34 | 24273.00 | 35 | 2 | 0.16940 |
| | | | 12978.82 | 45270.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR294.TX0

# Chromatogram

Sample Name : L5
FileName : C:\TC4\158\APRIL2~1\BAPR295.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 15:04
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00539

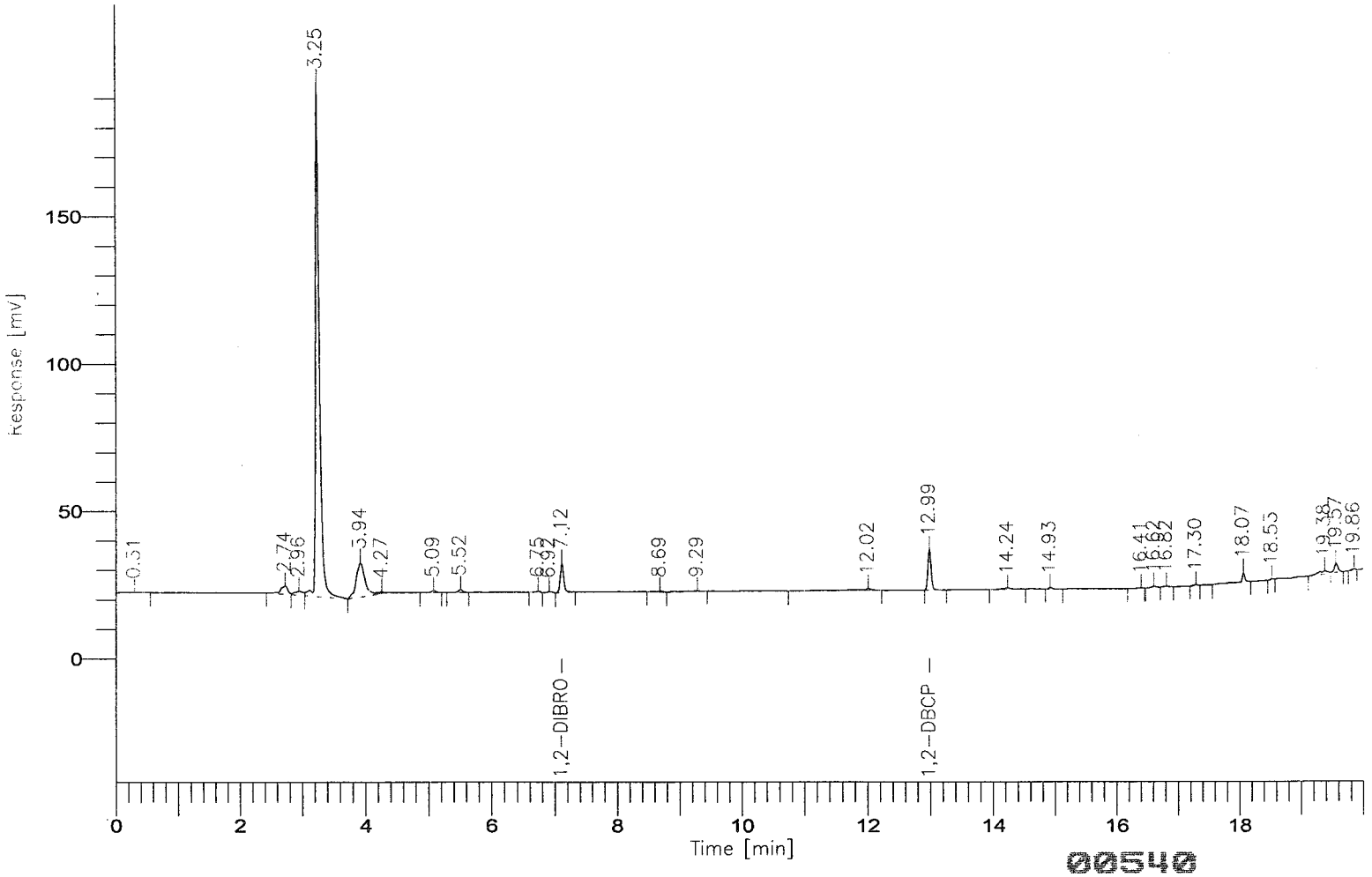
Software Version: 4.1<2F12>
Sample Name : L5 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 15:04
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR295.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR295.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR295.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00540

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

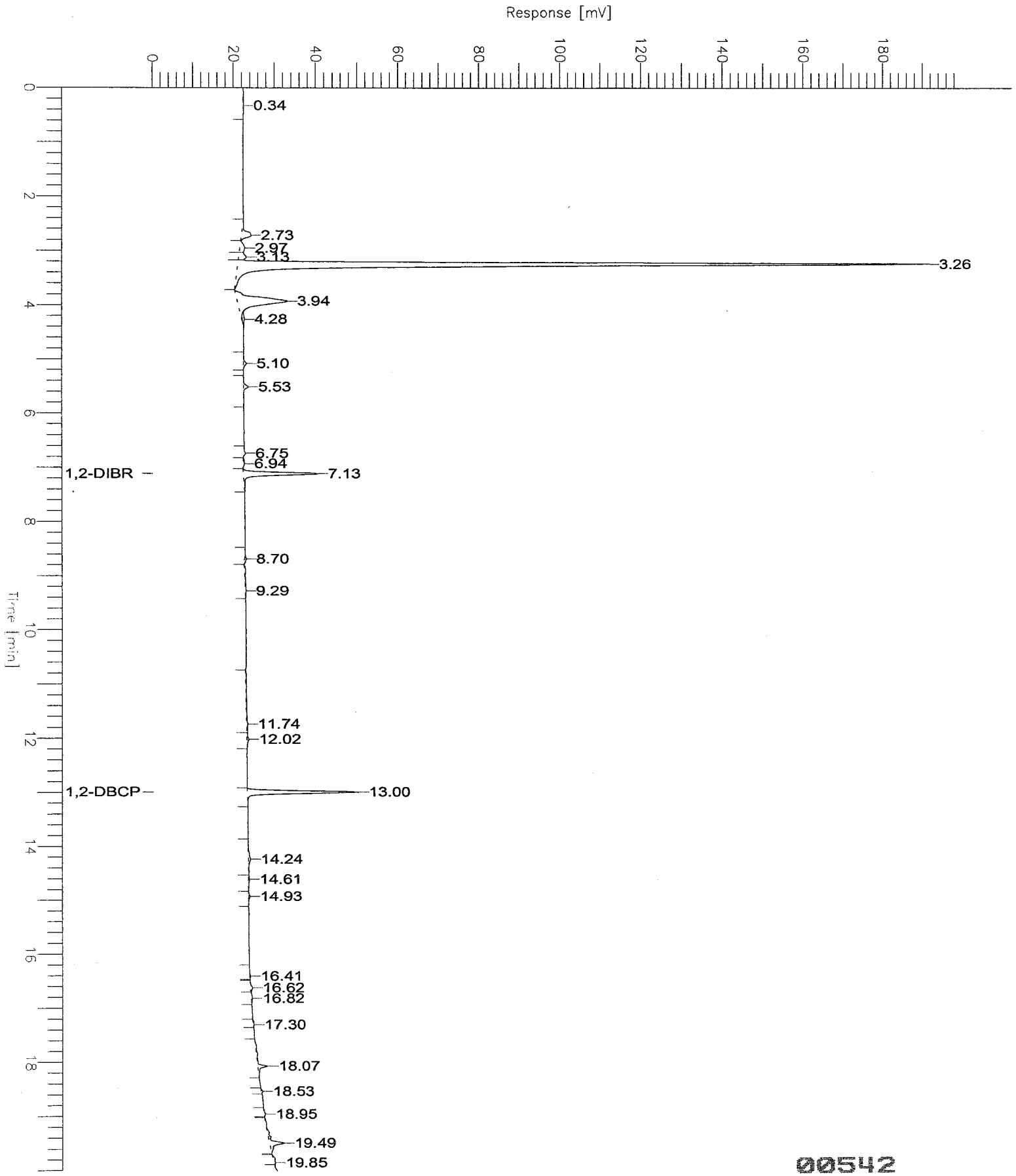
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0053 | 10320.04 | 37914.50 | 35 | 2 | 0.30190 |
| 12.99 | 1,2-DBCP (2C) | 0.0056 | 14209.62 | 48190.00 | 35 | 2 | 0.31818 |
| | | | 24529.67 | 86104.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR295.TX0

# Chromatogram

Sample Name : L6
FileName : C:\TC4\158\APRIL2~1\BAPR296.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 15:32
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00542

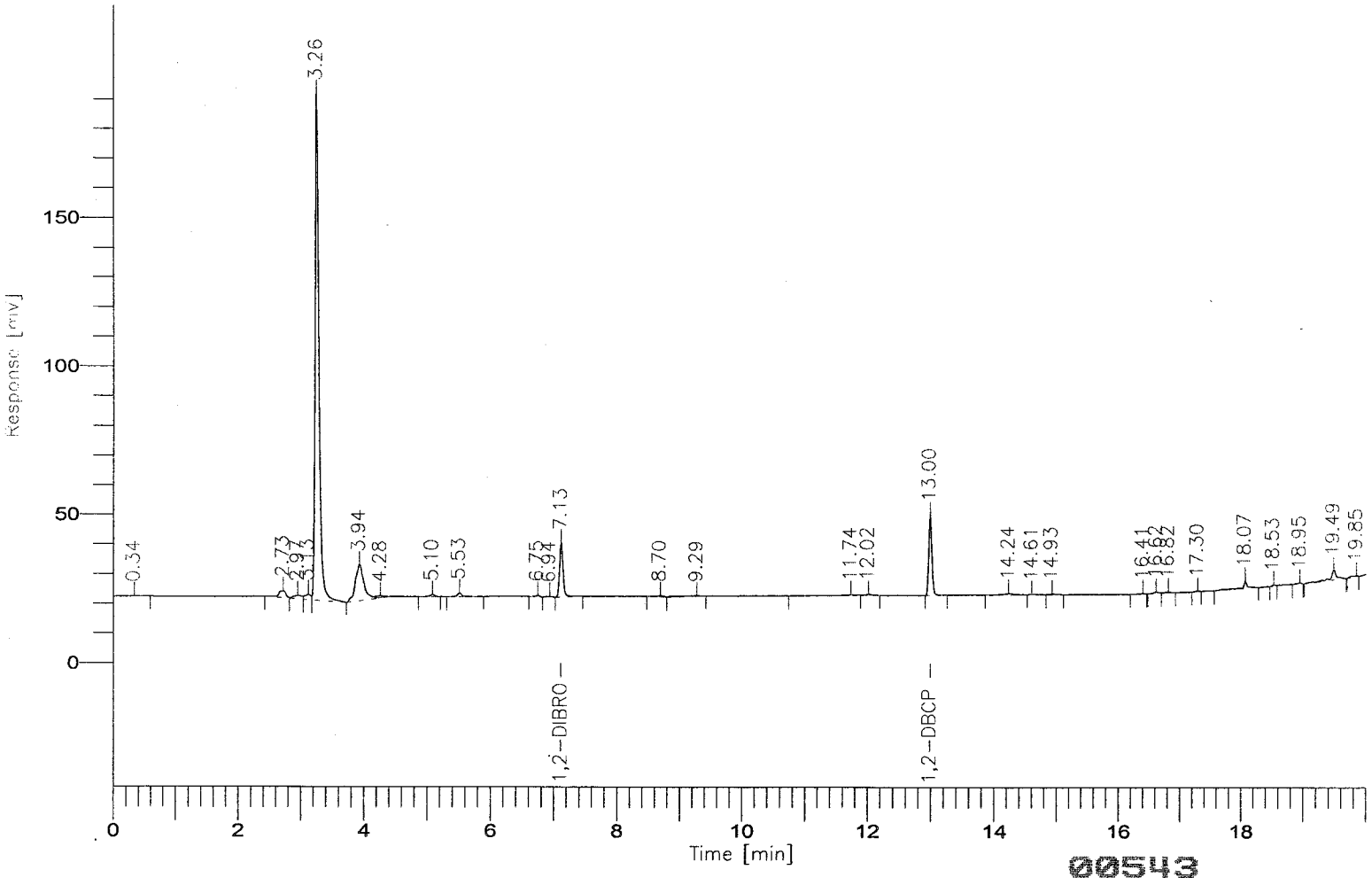
Software Version: 4.1<2F12>
Sample Name : L6 Time : 4/16/12 16:03
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 15:32
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR296.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR296.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR296.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00543

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.13 | 1,2-DIBROMOETHANE (2 | 0.0097 | 18734.15 | 70555.00 | 35 | 2 | 0.55598 |
| 13.00 | 1,2-DBCP (2C) | 0.0106 | 27500.26 | 92198.50 | 35 | 2 | 0.60642 |
| | | | 46234.41 | 162753.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR296.TX0

# SECOND-SOURCE CALIBRATION VERIFICATION

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Laboratory ID: 2D17019-SCV1
Standard ID: 2040798
Sequence: 2D17019
Calibration: 2D17008

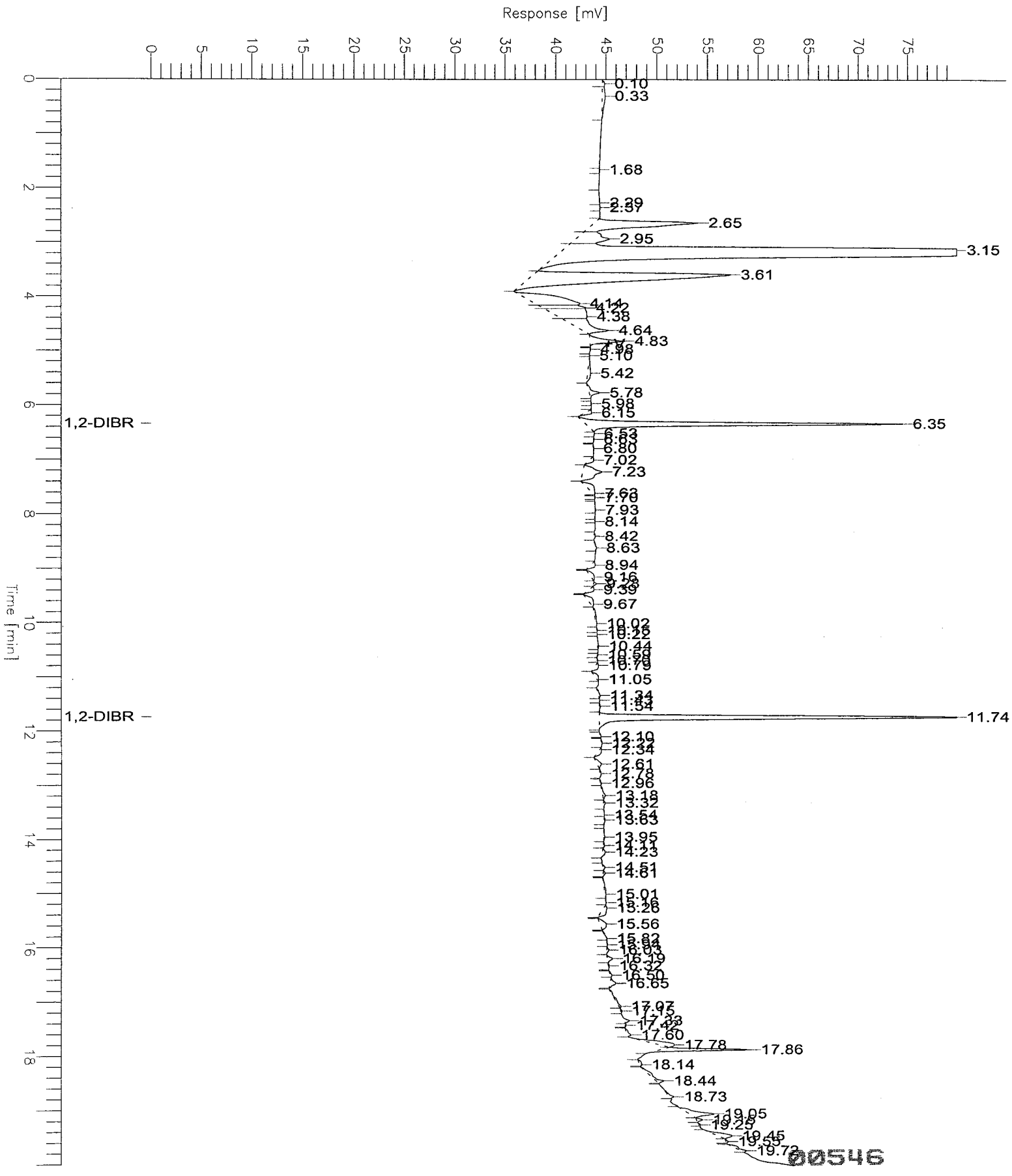
| Analyte | Expected (ug/mL) | Found (ug/mL) | % Rec. | QC Limit |
|---|---|---|---|---|
| 1,2-Dibromoethane | 0.00560 | 0.00570 | 102 | 75-125 |

* Values outside of QC limits

# Chromatogram

Sample Name : SCV
FileName : C:\TC4\158\APRIL2~1\AAPR297.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 16:01
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00546

Software Version: 4.1<2F12>
Sample Name : SCV
Sample Number:
Operator : BJH

Time : 4/17/12 08:38
Study : 8011

Instrument : 158
AutoSampler :
Rack/Vial : 0/0

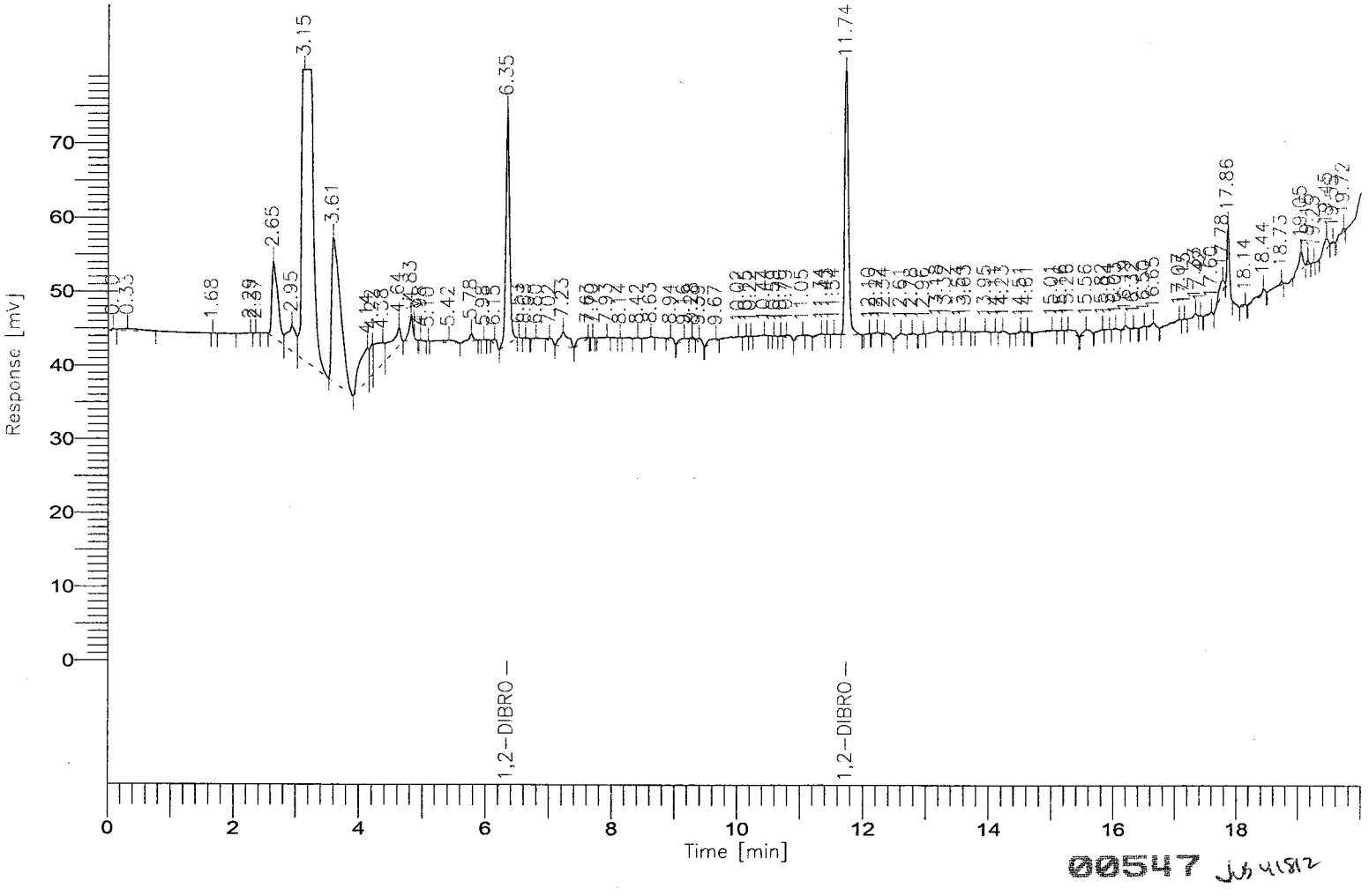
Channel : A A/D mV Range : 1000

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 16:01
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR297.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR297.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR297.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00




00547 JB 41812

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

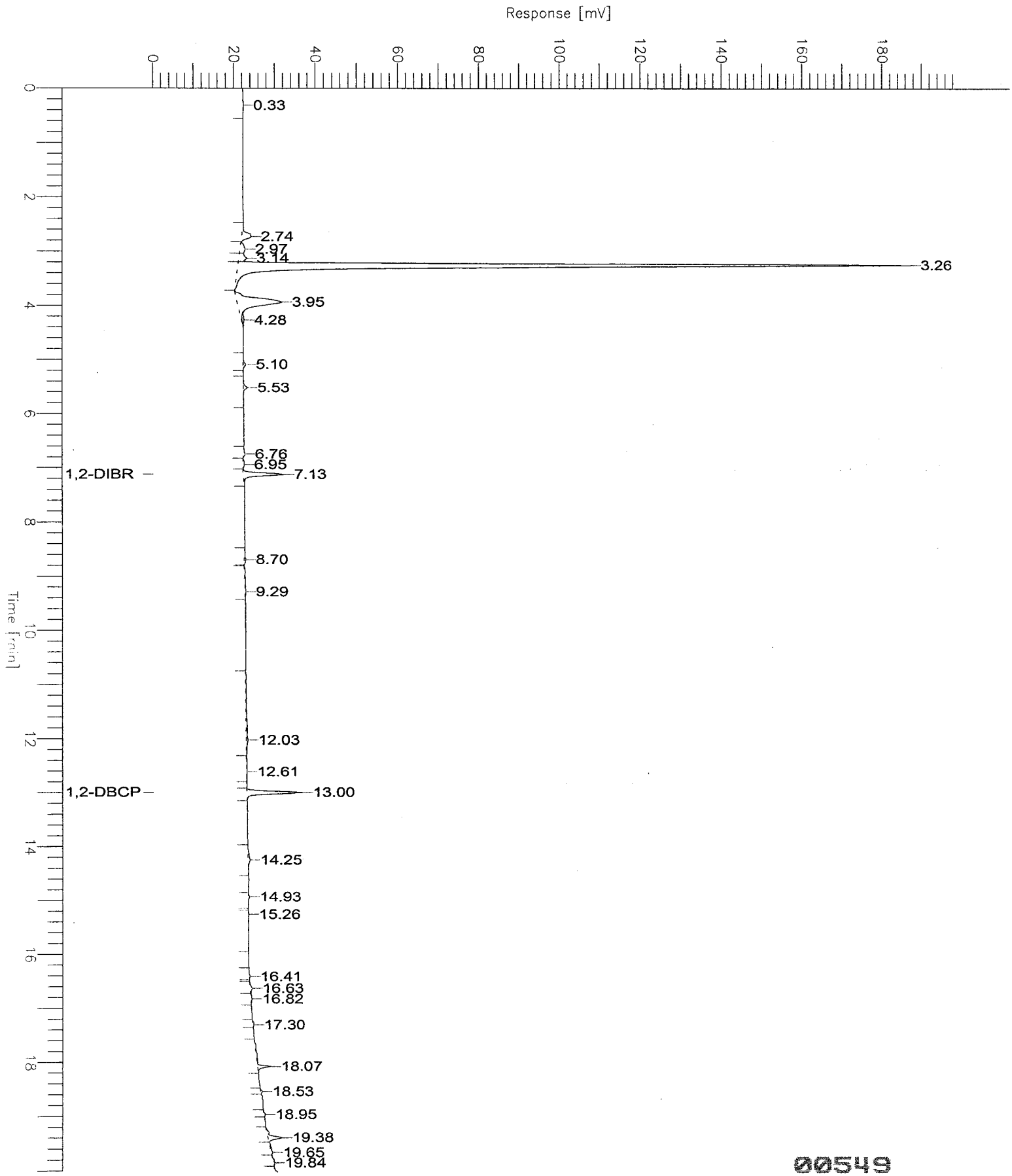
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.35 | 1,2-DIBROMOETHANE | 0.0057 | 31667.60 | 124986.50 | 35 | 2 | 0.32856 | Pass |
| 11.74 | 1,2-DIBROMO3CHLOROPR | 0.0054 | 44798.47 | 162796.00 | 35 | 2 | 0.30873 | ↓ |
| | | | 76466.07 | 287782.50 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR297.TX0

# Chromatogram

Sample Name : SCV
FileName : C:\TC4\158\APRIL2~1\BAPR297.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 16:01
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00549

Software Version: 4.1<2F12>
Sample Name : SCV
Sample Number:
Operator : BJH

Time : 4/17/12 08:38
Study : 8011

Instrument : 158
AutoSampler :
Rack/Vial : 0/0

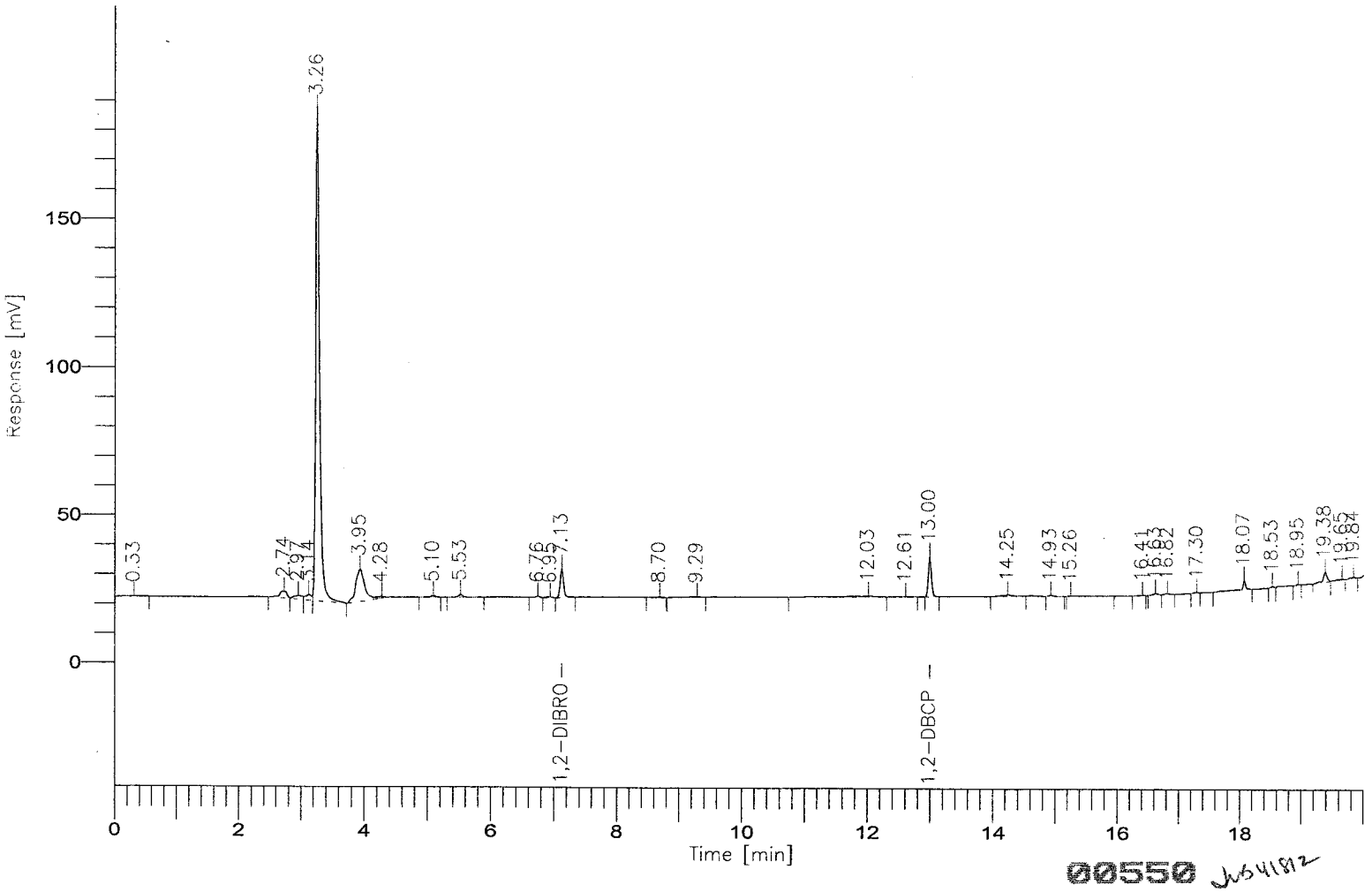
Channel : B A/D mV Range : 1000

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 16:01
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR297.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR297.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR297.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00




00550 JWS 4/18/12

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.13 | 1,2-DIBROMOETHANE (2 | 0.0051 | 10027.15 | 37165.00 | 35 | 2 | 0.29305 |
| 13.00 | 1,2-DBCP (2C) | 0.0054 | 13721.09 | 45156.00 | 35 | 2 | 0.30759 |
| | | | 23748.24 | 82321.00 | | | |

Pass

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR297.TX0

# CONTINUING CALIBRATION CHECK

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Lab Sample ID: 2D17019-CCV1
Lab File ID: AAPR308-0
Injection Date: 04/16/12
Injection Time: 21:11
Calibration Date: 04/16/12 08:55
Calibration: 2D17008
Sequence: 2D17019
Instrument ID: 158

| Analyte | Type | CONC. (ug/mL) | | Response Factor | | | % Diff. / Drift | |
|---|---|---|---|---|---|---|---|---|
| | | STD | CCV | ICAL | CCV | MIN (#) | CCV | LIMIT (#) |
| 1,2-Dibromoethane | L | 0.00560 | 0.00590 | 6967893 | 5823521 | | 5.4 | 40 |

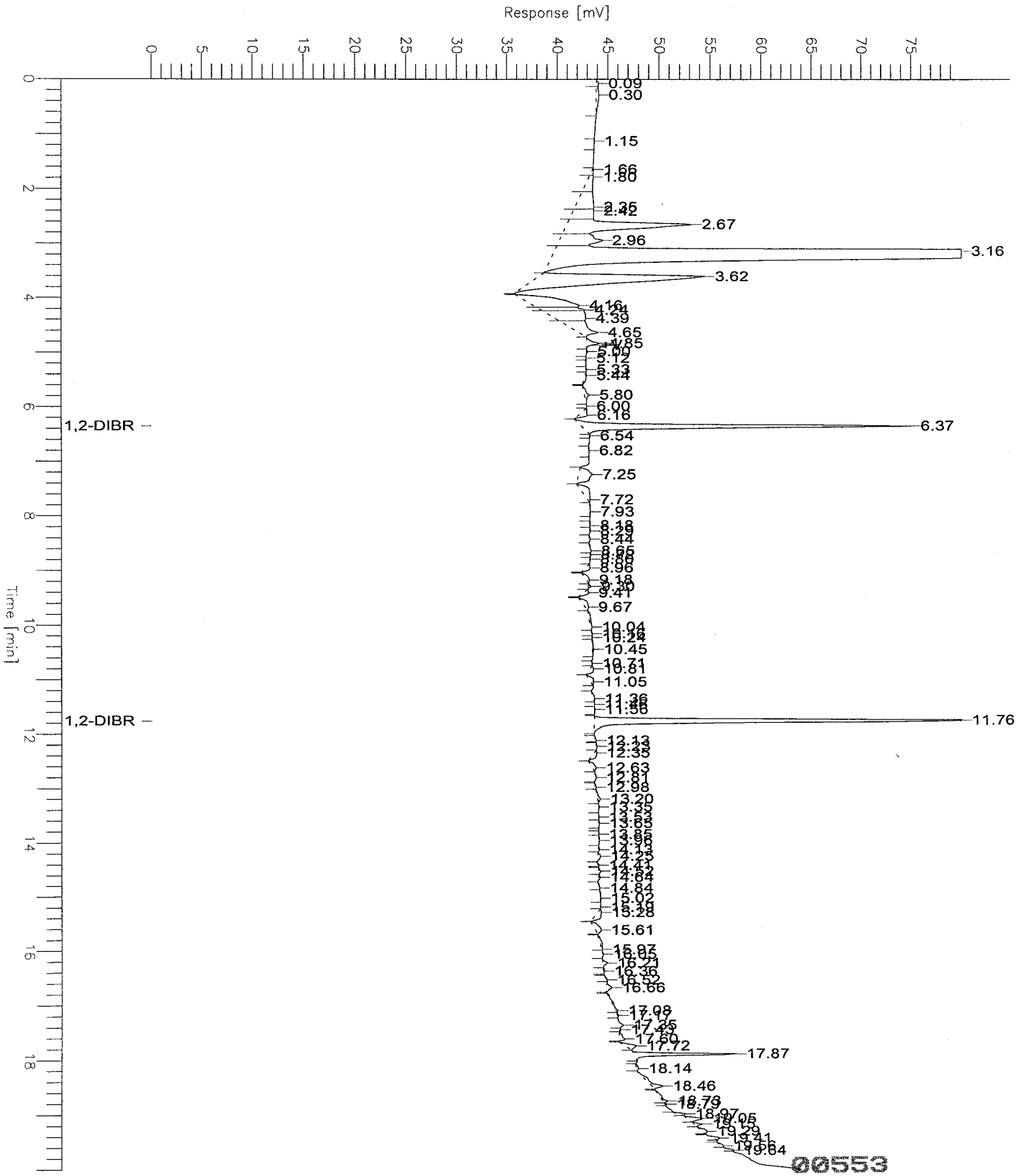
# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : CCV1
FileName : C:\TC4\158\APRIL2~1\AAPR308.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:39
Time of Injection: 4/16/12 21:11
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



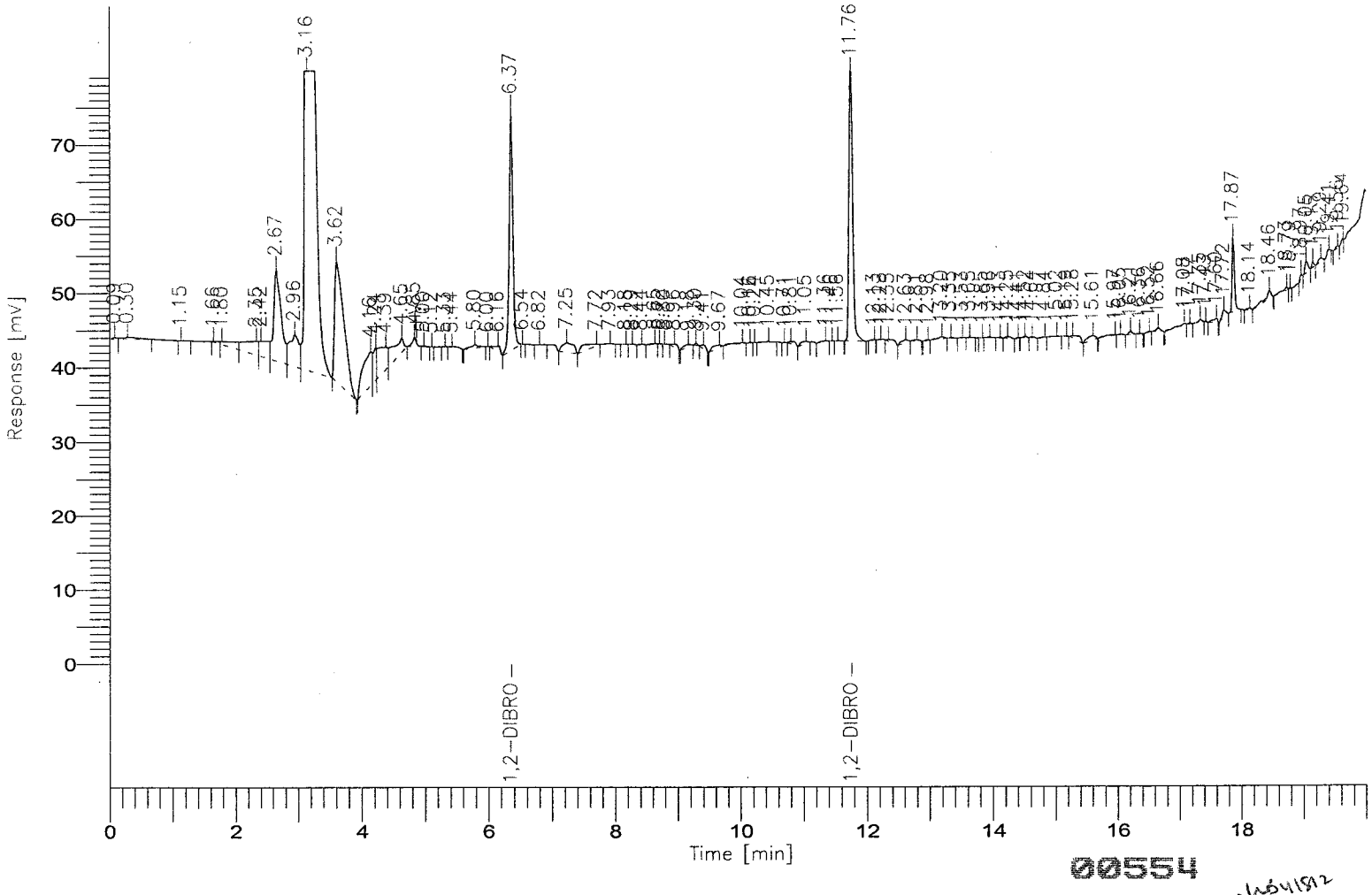
Software Version: 4.1<2F12>
Sample Name : CCV1 Time : 4/17/12 08:39
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 21:11
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR308.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR308.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR308.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00554

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.37 | 1,2-DIBROMOETHANE | 0.0059 | 32611.72 | 127750.50 | 35 | 2 | 0.33935 |
| 11.76 | 1,2-DIBROMO3CHLOROPR | 0.0055 | 45540.76 | 165318.00 | 35 | 2 | 0.31409 |
| | | | 78152.48 | 293068.50 | | | |

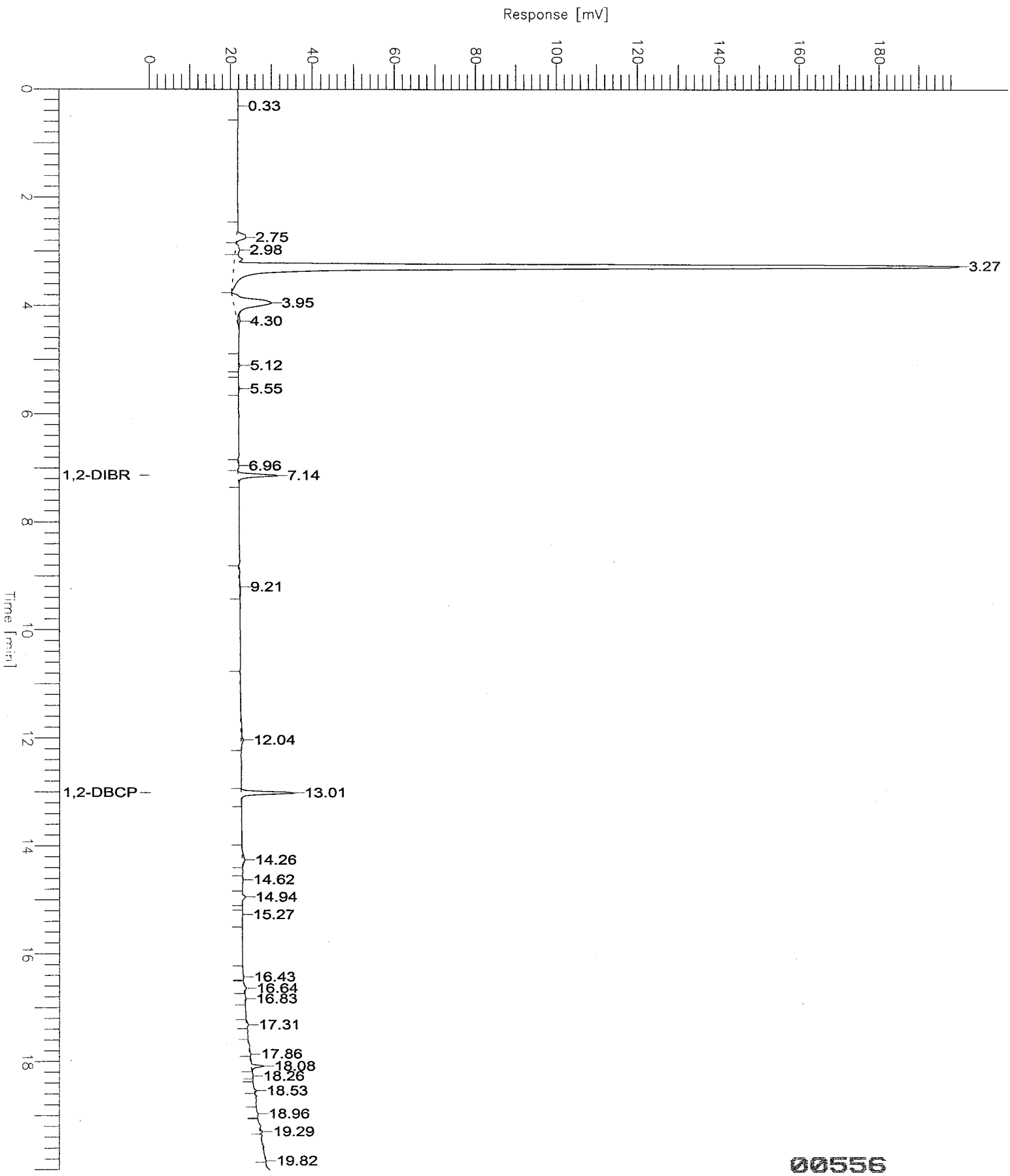
Pass ↓

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR308.TX0

# Chromatogram

Sample Name : CCV1
FileName : C:\TC4\158\APRIL2~1\BAPR308.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:39
Time of Injection: 4/16/12 21:11
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00556

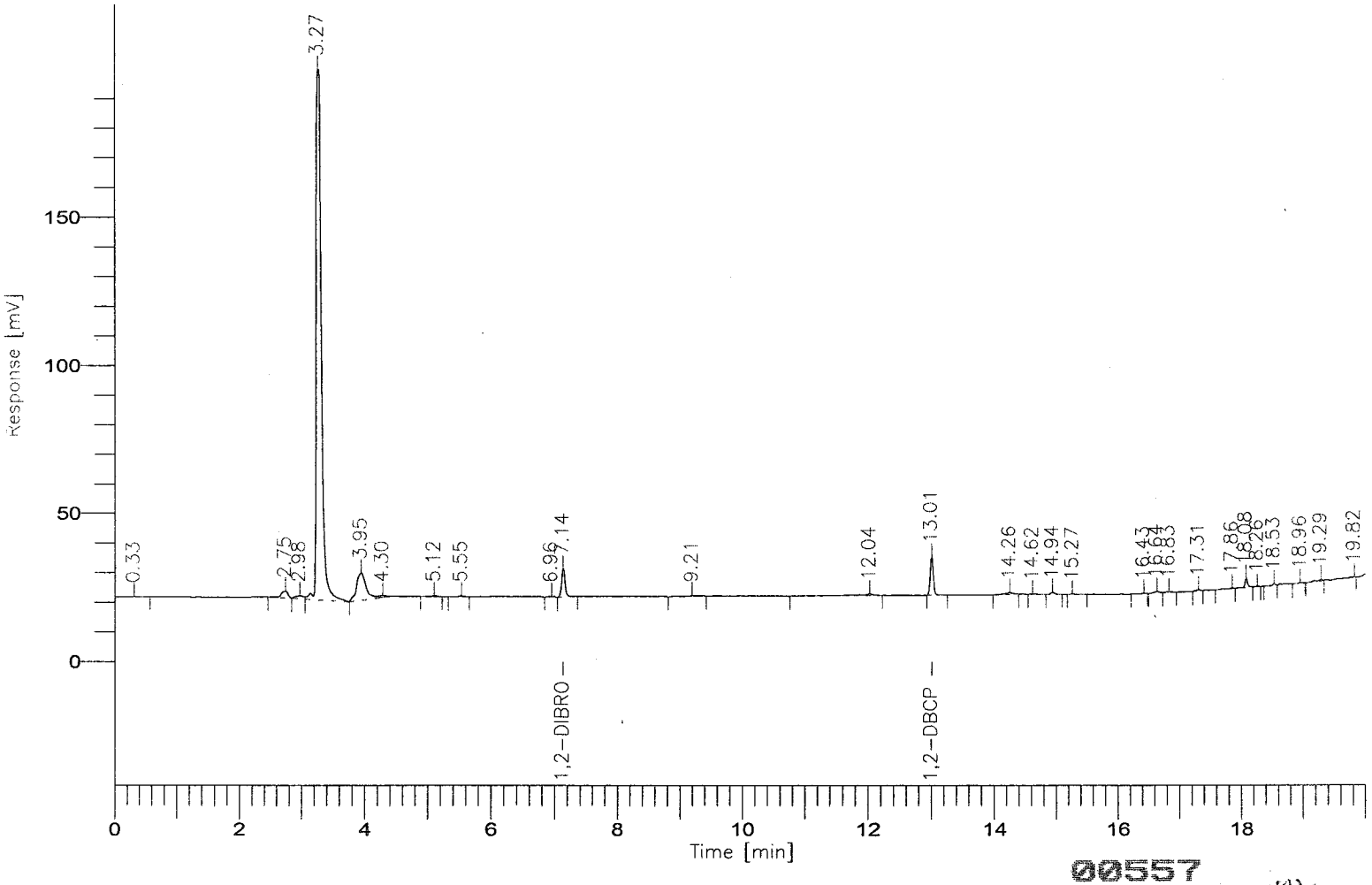
Software Version: 4.1<2F12>
Sample Name : CCV1 Time : 4/17/12 08:39
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 21:11
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR308.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR308.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR308.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00557

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.14 | 1,2-DIBROMOETHANE (2 | 0.0051 | 9902.81 | 36984.50 | 35 | 2 | 0.28930 |
| 13.01 | 1,2-DBCP (2C) | 0.0052 | 13300.61 | 44783.00 | 35 | 2 | 0.29847 |
| | | | 23203.41 | 81767.50 | | | |

Pass

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR308.TX0

# CONTINUING CALIBRATION CHECK

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Lab Sample ID: 2D25008-CCV1
Lab File ID: AAPR399-0
Injection Date: 04/24/12
Injection Time: 15:52
Calibration Date: 04/16/12 08:55
Calibration: 2D17008
Sequence: 2D25008
Instrument ID: 158

| Analyte | Type | CONC. (ug/mL) | | Response Factor | | | % Diff. / Drift | |
|---|---|---|---|---|---|---|---|---|
| | | STD | CCV | ICAL | CCV | MIN (#) | CCV | LIMIT (#) |
| 1,2-Dibromoethane | L | 0.00560 | 0.00630 | 6967893 | 6160943 | | 12.5 | 40 |

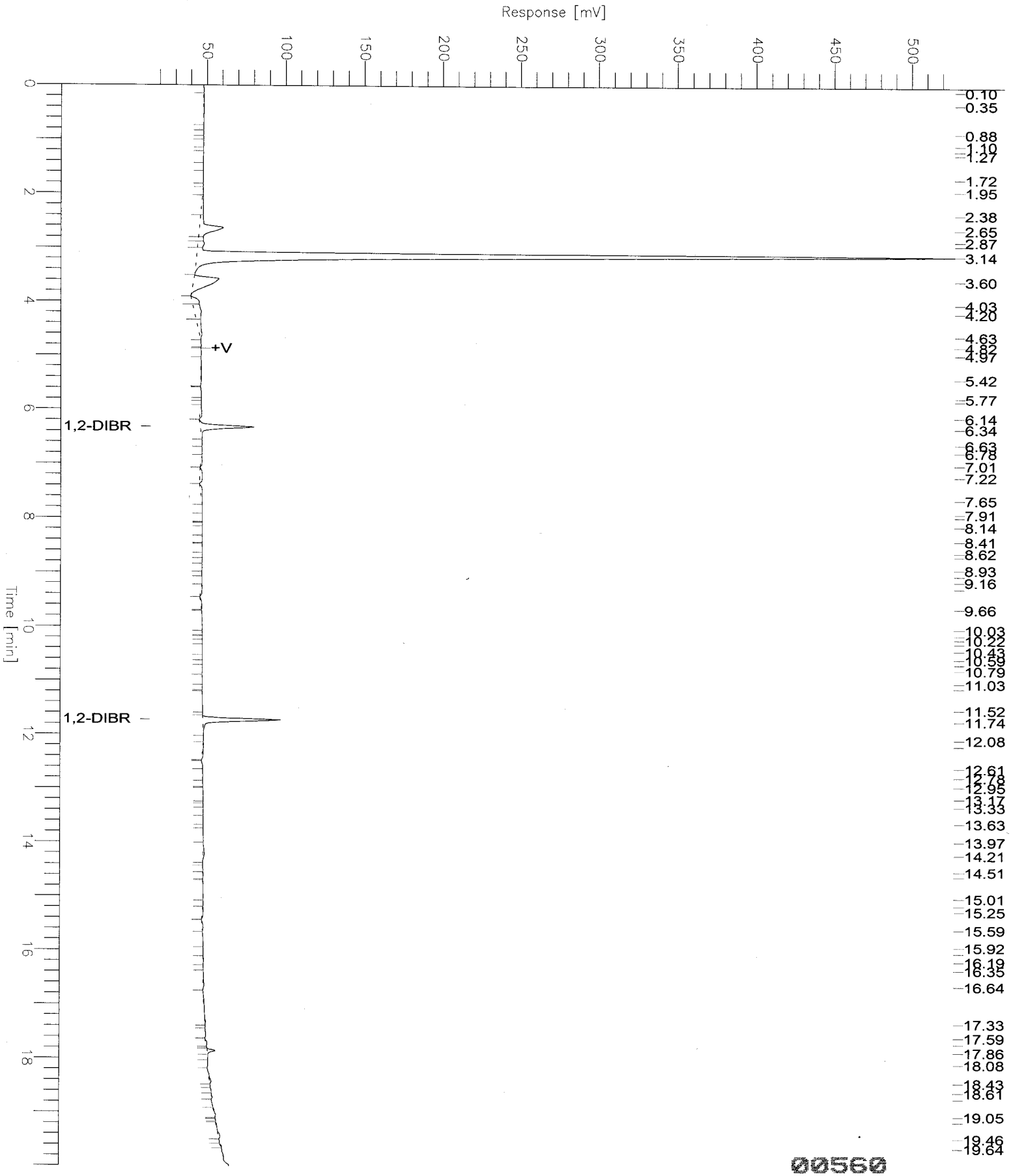
# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : CCV1
FileName : C:\TC4\158\APRIL2~1\AAPR399.RAW
Method : 041612A.MTH
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #: Page 1 of 1
Date : 5/15/12 08:36
Time of Injection: 4/24/12 15:52
Low Point : 13.99 mV High Point : 527.54 mV
Plot Scale: 513.6 mV




00560

Software Version: 4.1<2F12>
Sample Name : CCV1
Sample Number:
Operator : BJH

Time : 4/25/12 08:11
Study : 8011

Instrument : 158
AutoSampler :
Rack/Vial : 0/0

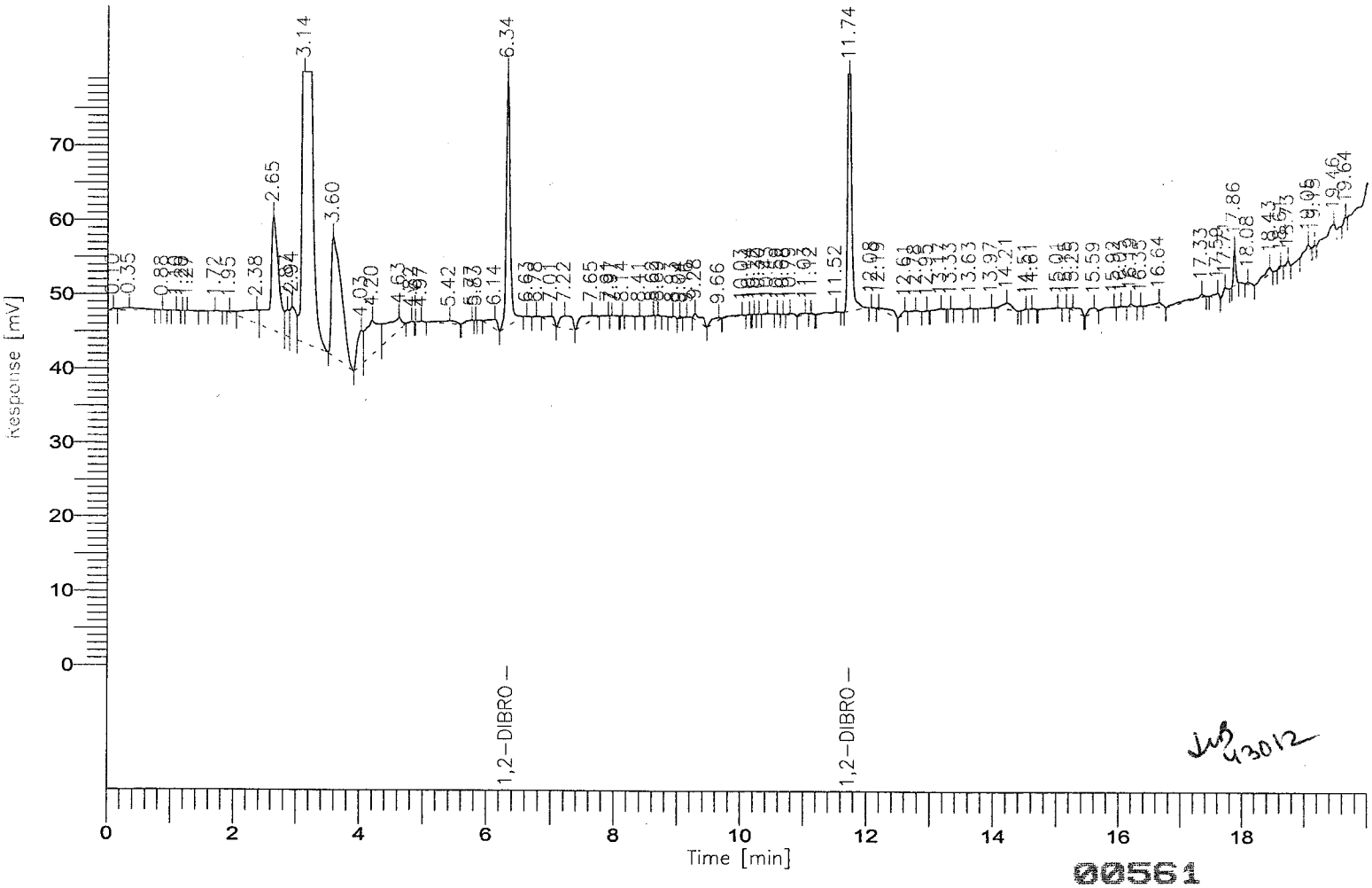
Channel : A A/D mV Range : 1000

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 15:52
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR399.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR399.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR399.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00




JB 43012

00561

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

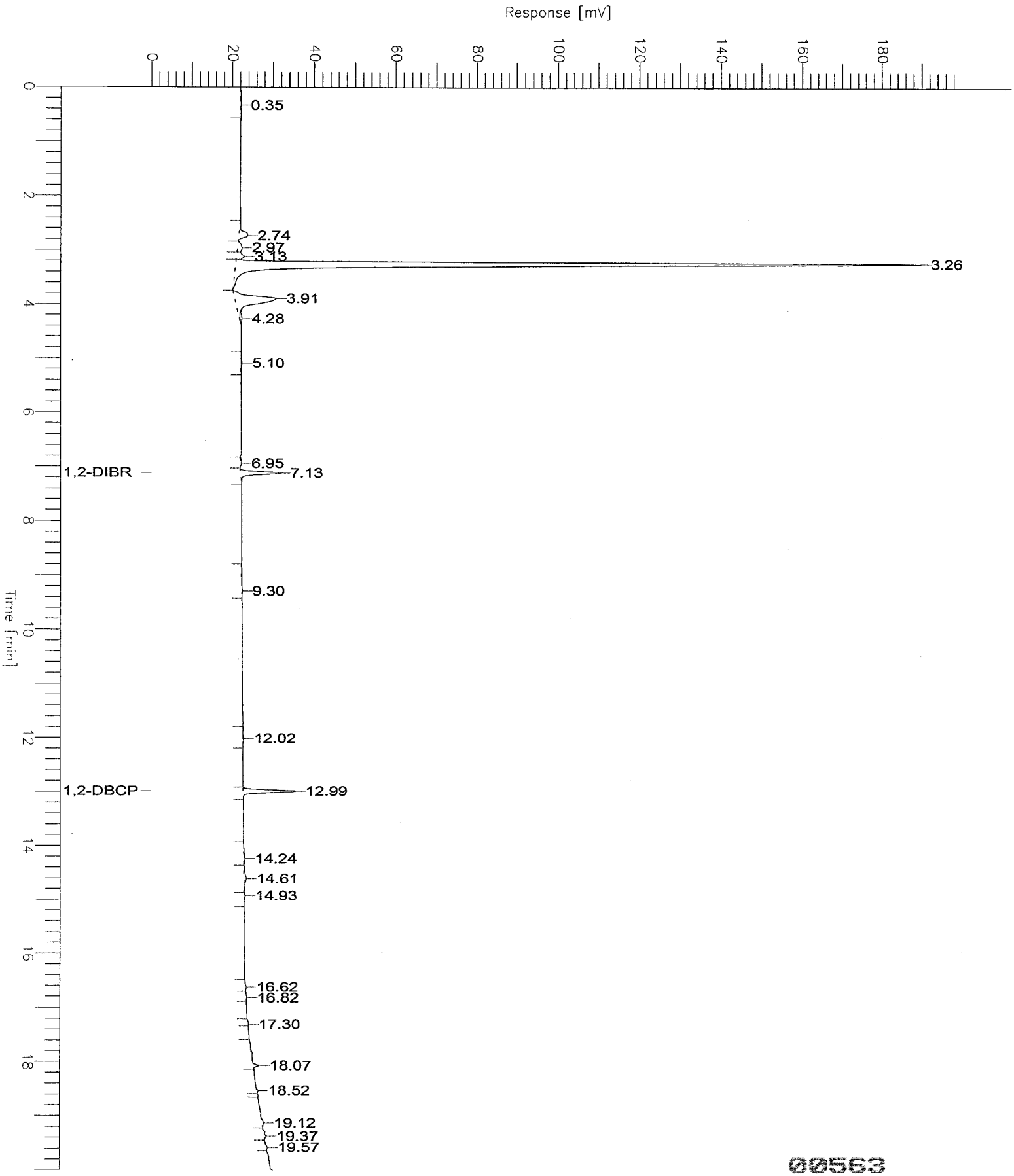
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | 0.0063 | 34501.28 | 138845.00 | 35 | 2 | 0.36093 | Pass ↓ |
| 11.74 | 1,2-DIBROMO3CHLOROPR | 0.0060 | 49499.49 | 179845.50 | 35 | 2 | 0.34269 | |
| | | | 84000.77 | 318690.50 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR399.TX0

# Chromatogram

Sample Name : CCV1
FileName : C:\TC4\158\APRIL2~1\BAPR399.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:11
Time of Injection: 4/24/12 15:52
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00563

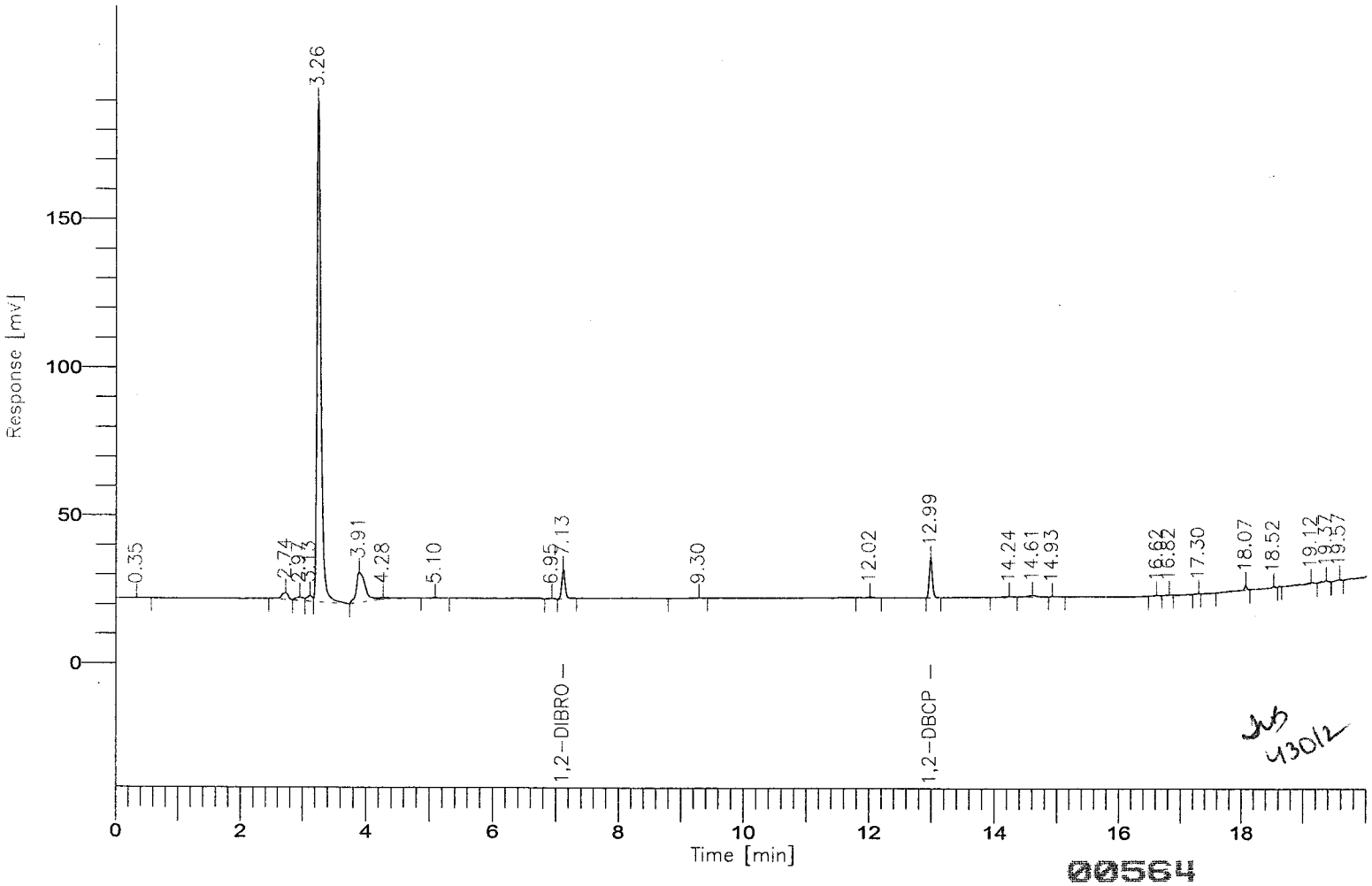
Software Version: 4.1<2F12>
Sample Name : CCV1 Time : 4/25/12 08:11
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 15:52
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR399.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR399.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR399.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




JWS 4/30/12

00564

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.13 | 1,2-DIBROMOETHANE (2 | 0.0052 | 10210.31 | 38110.00 | 35 | 2 | 0.29858 | Pass |
| 12.99 | 1,2-DBCP (2C) | 0.0053 | 13410.50 | 45076.00 | 35 | 2 | 0.30085 | ↓ |
| | | | 23620.81 | 83186.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR399.TX0

# CONTINUING CALIBRATION CHECK

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Lab Sample ID: 2D25008-CCV2
Lab File ID: AAPR405-0
Injection Date: 04/24/12
Injection Time: 18:42
Calibration Date: 04/16/12 08:55
Calibration: 2D17008
Sequence: 2D25008
Instrument ID: 158

| Analyte | Type | CONC. (ug/mL) | | Response Factor | | | % Diff. / Drift | |
|---|---|---|---|---|---|---|---|---|
| | | STD | CCV | ICAL | CCV | MIN (#) | CCV | LIMIT (#) |
| 1,2-Dibromoethane | L | 0.00560 | 0.00620 | 6967893 | 6029745 | | 10.7 | 40 |

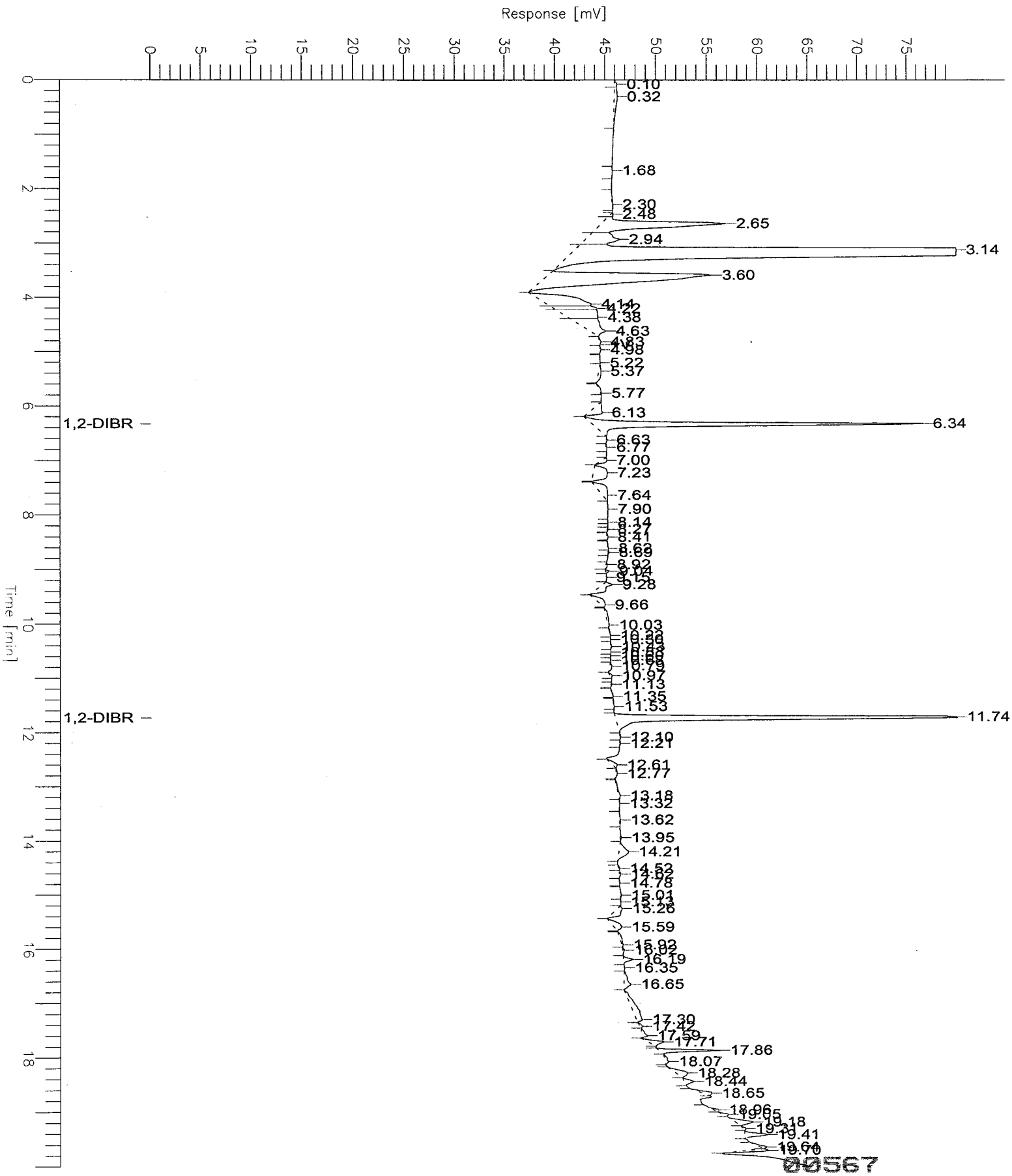
# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : CCV2
FileName : C:\TC4\158\APRIL2~1\AAPR405.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 18:42
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



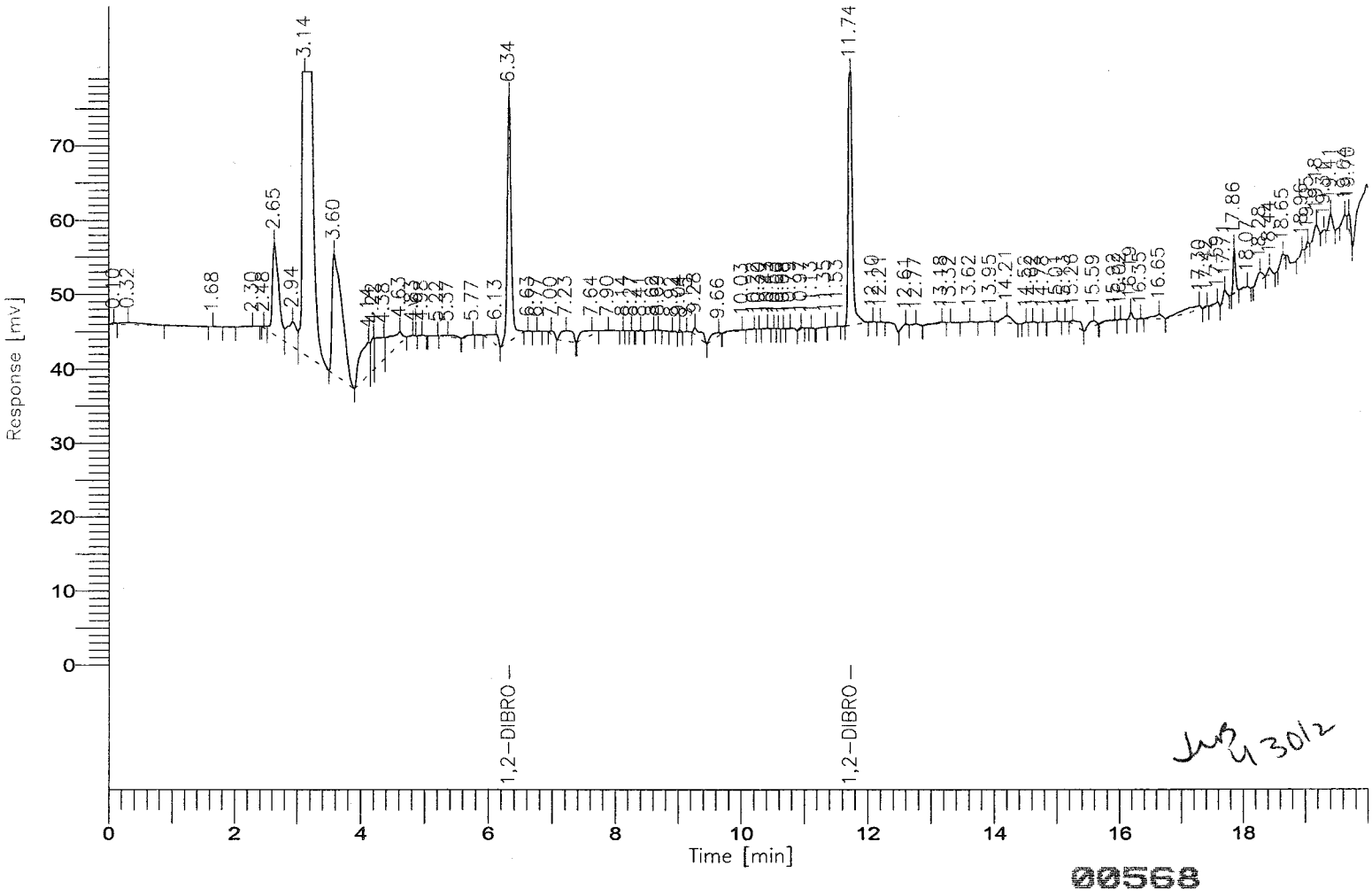
Software Version: 4.1<2F12>
Sample Name : CCV2 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 18:42
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR405.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR405.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR405.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00568

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

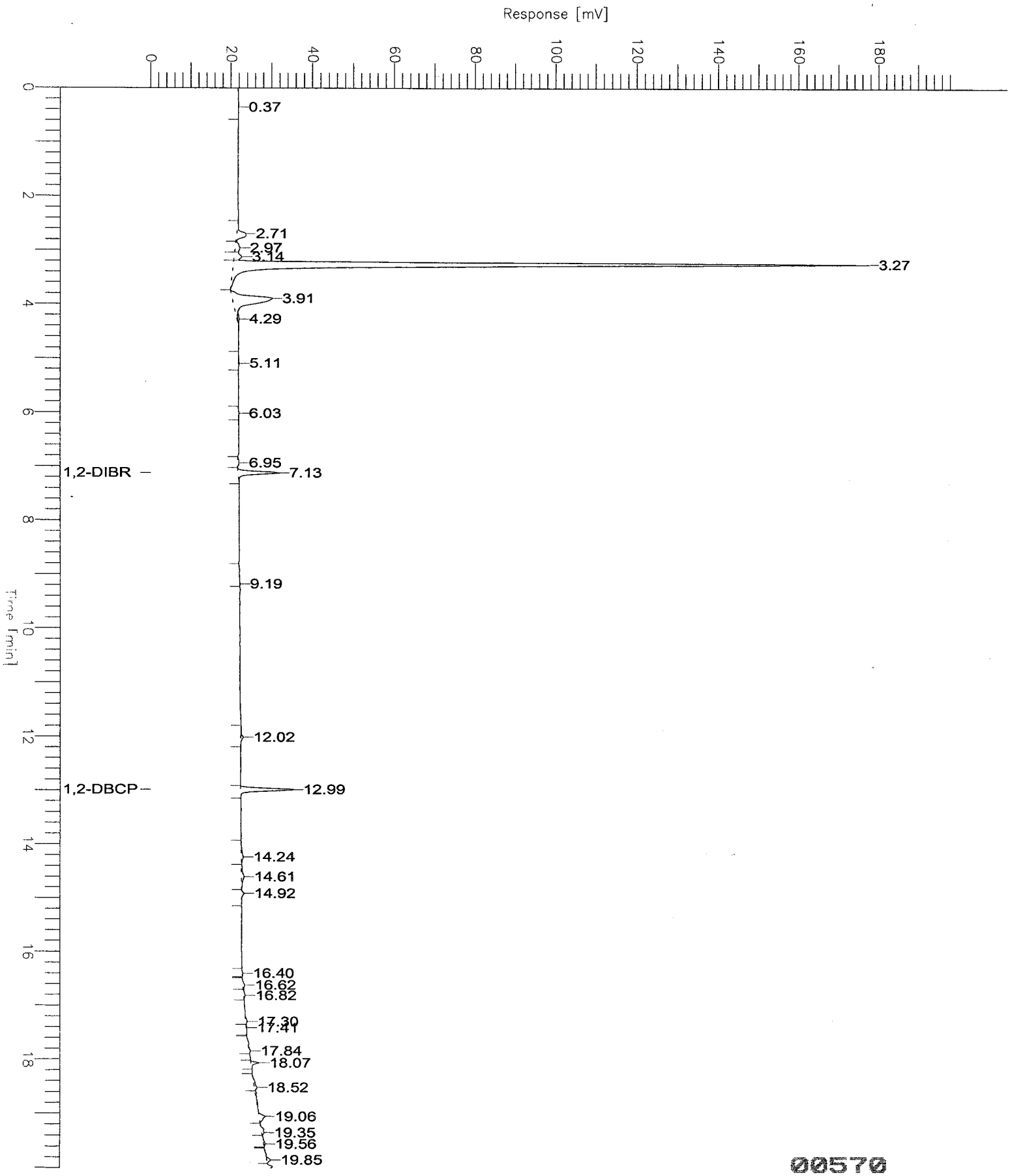
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | 0.0062 | 33766.57 | 138444.00 | 35 | 2 | 0.35254 | Pass |
| 11.74 | 1,2-DIBROMO3CHLOROPR | 0.0059 | 48893.76 | 179374.00 | 35 | 2 | 0.33831 | ↓ |
| | | | 82660.33 | 317818.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR405.TX0

# Chromatogram

Sample Name : CCV2
FileName : C:\TC4\158\APRIL2~1\BAPR405.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 18:42
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00576

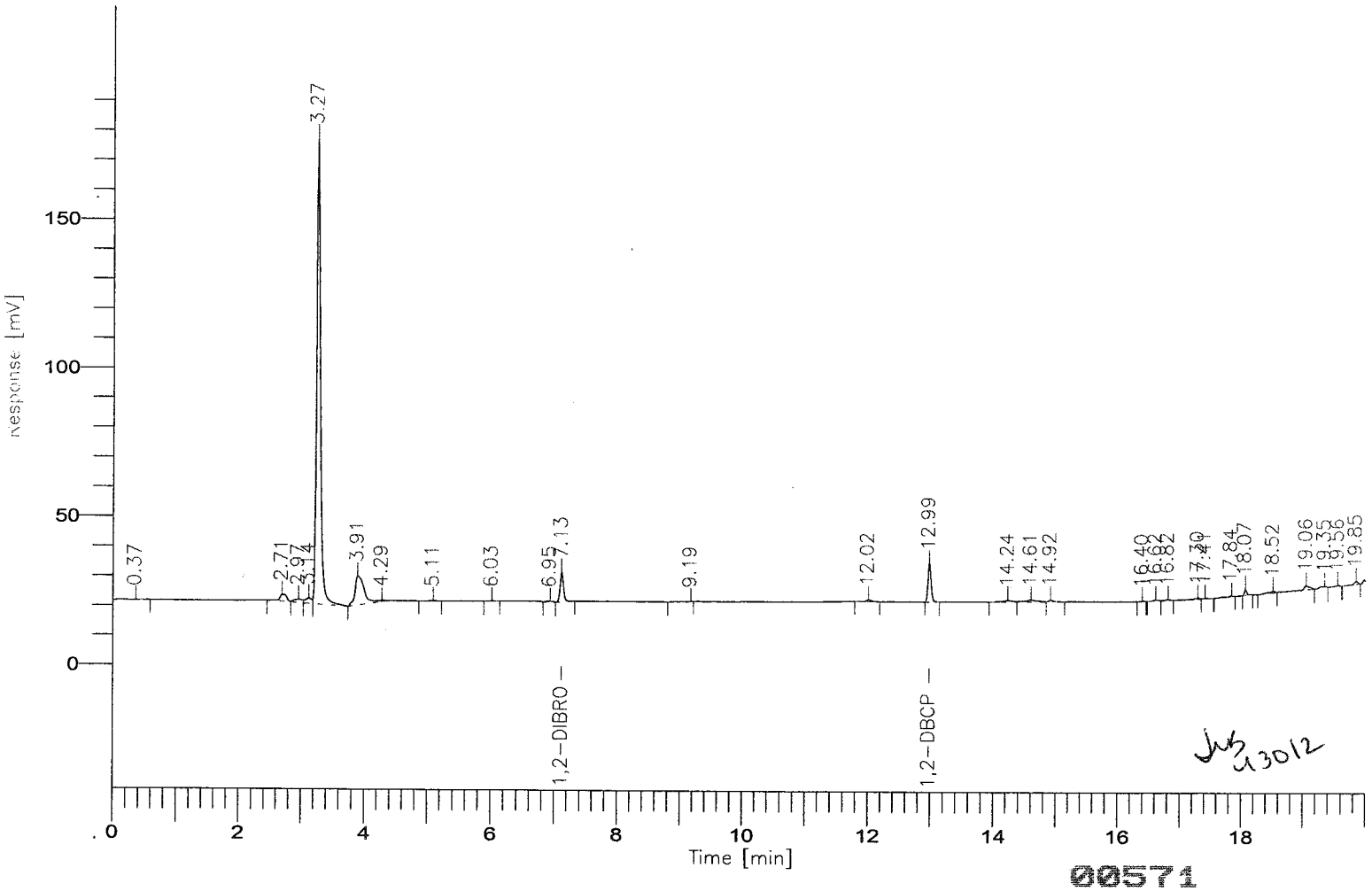
Software Version: 4.1<2F12>
Sample Name : CCV2 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 18:42
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR405.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR405.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR405.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




JW 13012

00571

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.13 | 1,2-DIBROMOETHANE (2 | 0.0052 | 10215.04 | 37518.00 | 35 | 2 | 0.29873 | Pass |
| 12.99 | 1,2-DBCP (2C) | 0.0053 | 13572.25 | 45243.00 | 35 | 2 | 0.30436 | ↓ |
| | | | 23787.29 | 82761.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR405.TX0

# CONTINUING CALIBRATION CHECK

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Lab Sample ID: 2E07013-CCV1
Lab File ID: AMAY027-0
Injection Date: 05/04/12
Injection Time: 10:03
Calibration Date: 04/16/12 08:55
Calibration: 2D17008
Sequence: 2E07013
Instrument ID: 158

| Analyte | Type | CONC. (ug/mL) | | Response Factor | | | % Diff. / Drift | |
|---|---|---|---|---|---|---|---|---|
| | | STD | CCV | ICAL | CCV | MIN (#) | CCV | LIMIT (#) |
| 1,2-Dibromoethane | L | 0.00560 | 0.00430 | 6967893 | 4369834 | | -23.2 | 40 |

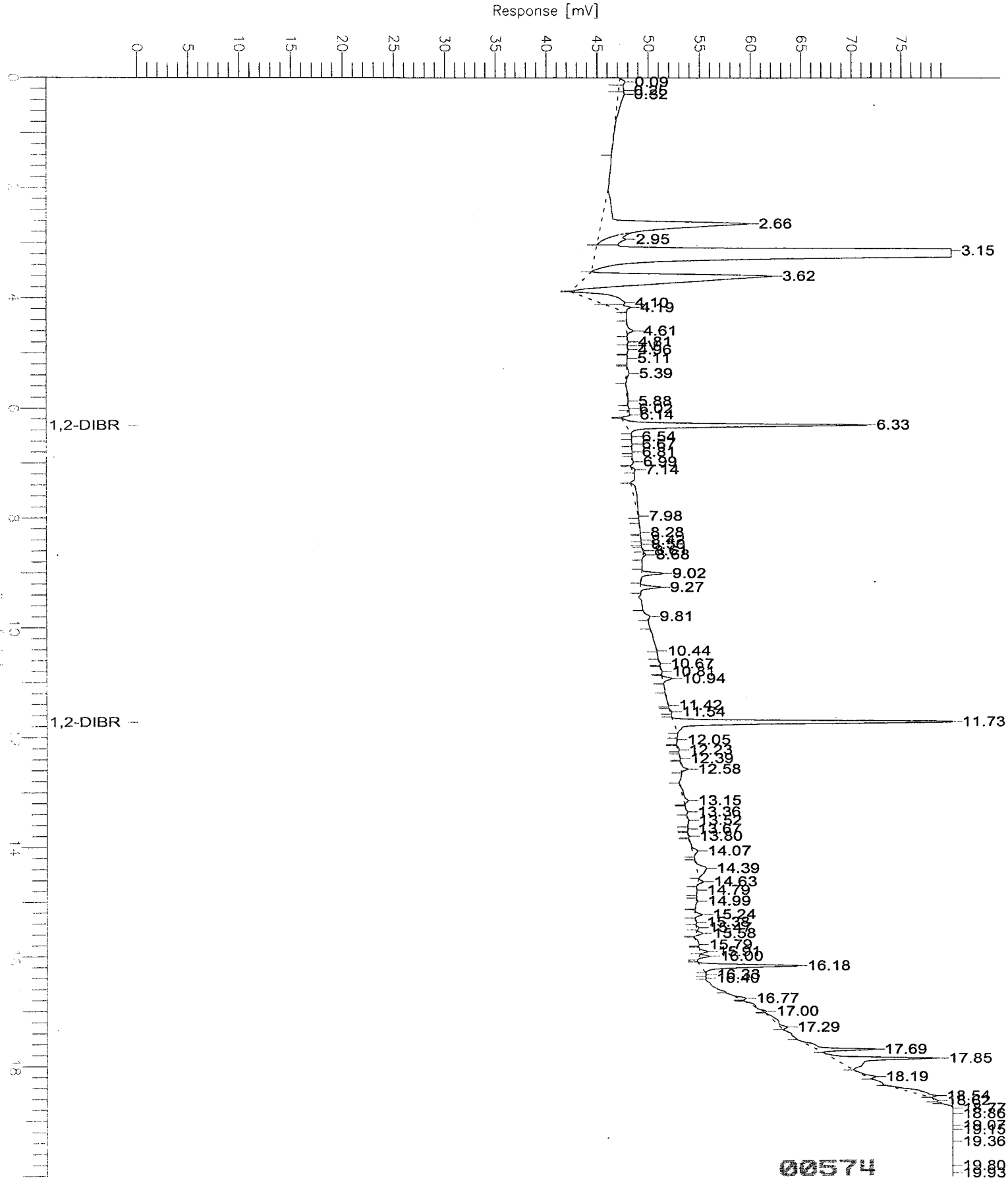
# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : CCV1
FileName : C:\TC4\158\MAY2012\AMAY027.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 10:03
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00574

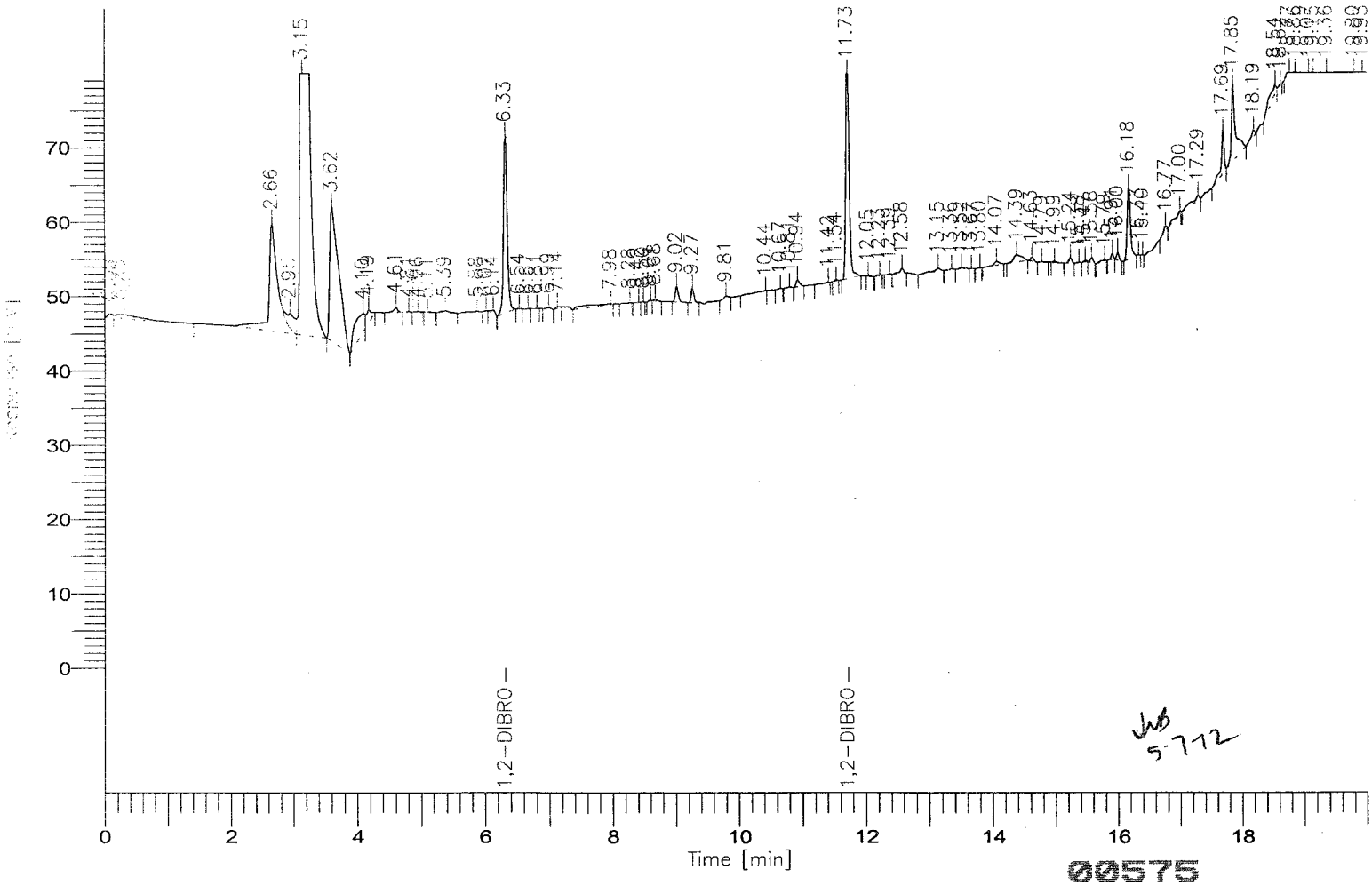
Software Version: 4.1<2F12>
Sample Name : CCV1 Time : 5/4/12 15:58
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 10:03
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY027.RAW
Result File : C:\TC4\158\MAY2012\AMAY027.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY027.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




JMB 5-7-12

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.33 | 1,2-DIBROMOETHANE | 0.0043 | 24471.07 | 94293.00 | 35 | 2 | 0.24636 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0039 | 32910.96 | 117526.00 | 35 | 2 | 0.22286 |
| | | | 57382.03 | 211819.00 | | | |

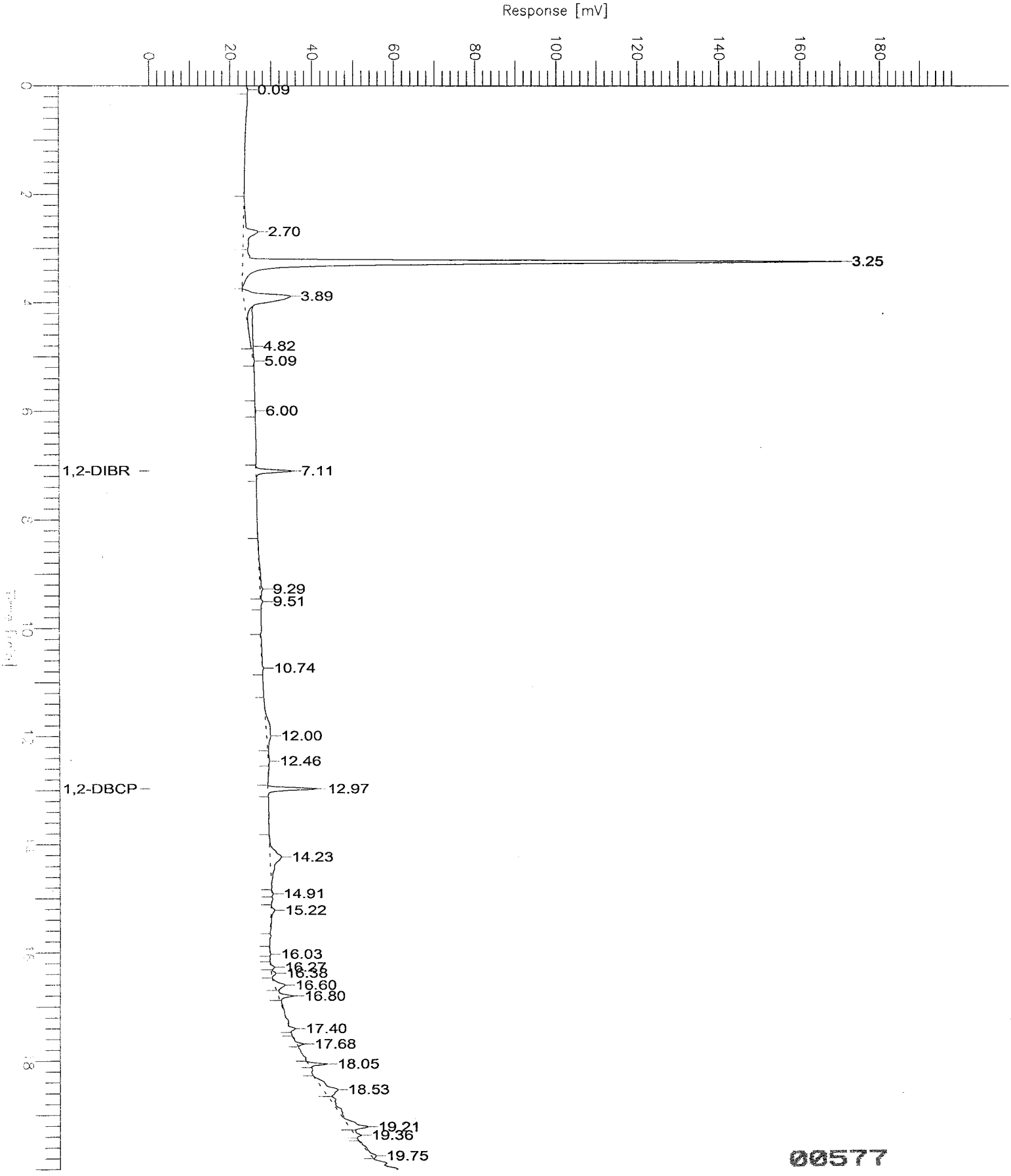
Pass

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY027.TX0

# Chromatogram

Sample Name : CCV1
FileName : C:\TC4\158\MAY2012\BMAY027.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 10:03
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00577

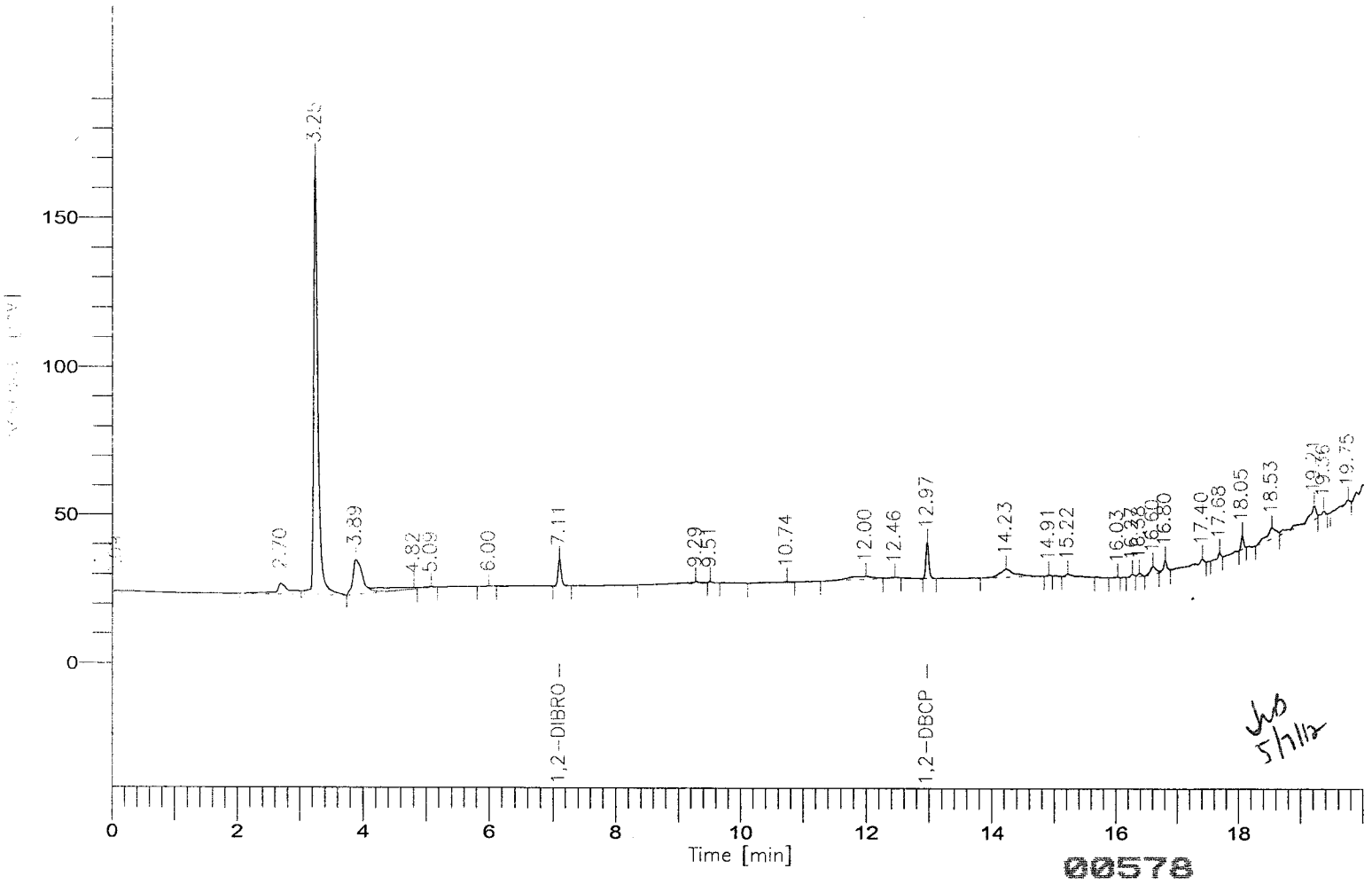
Software Version: 4.1<2F12>
Sample Name : CCV1 Time : 5/4/12 15:58
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 10:03
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY027.RAW
Result File : C:\TC4\158\MAY2012\BMAY027.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY027.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00578

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0046 | 9012.10 | 32223.00 | 35 | 2 | 0.26240 | Pass |
| 12.97 | 1,2-DBCP (2C) | 0.0048 | 12244.66 | 40172.50 | 35 | 2 | 0.27557 | |
| | | | 21256.77 | 72395.50 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY027.TX0

# CONTINUING CALIBRATION CHECK

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Lab Sample ID: 2E07013-CCV2
Lab File ID: AMAY038-0
Injection Date: 05/04/12
Injection Time: 15:11
Calibration Date: 04/16/12 08:55
Calibration: 2D17008
Sequence: 2E07013
Instrument ID: 158

| Analyte | Type | CONC. (ug/mL) | | Response Factor | | | % Diff. / Drift | |
|---|---|---|---|---|---|---|---|---|
| | | STD | CCV | ICAL | CCV | MIN (#) | CCV | LIMIT (#) |
| 1,2-Dibromoethane | L | 0.00560 | 0.00500 | 6967893 | 5003096 | | -10.7 | 40 |

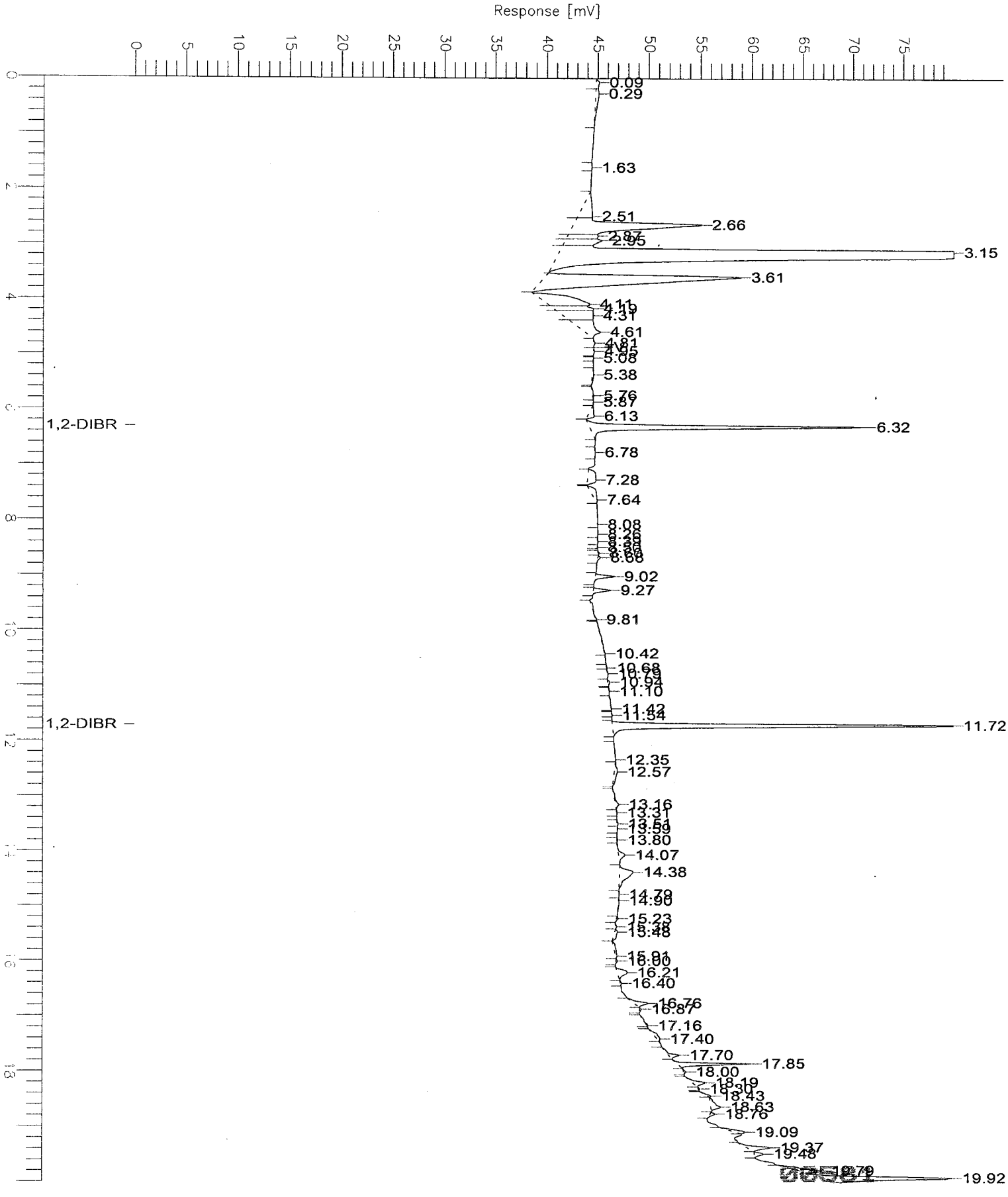
# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : CCV2
FileName : C:\TC4\158\MAY2012\AMAY038.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:59
Time of Injection: 5/4/12 15:11
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



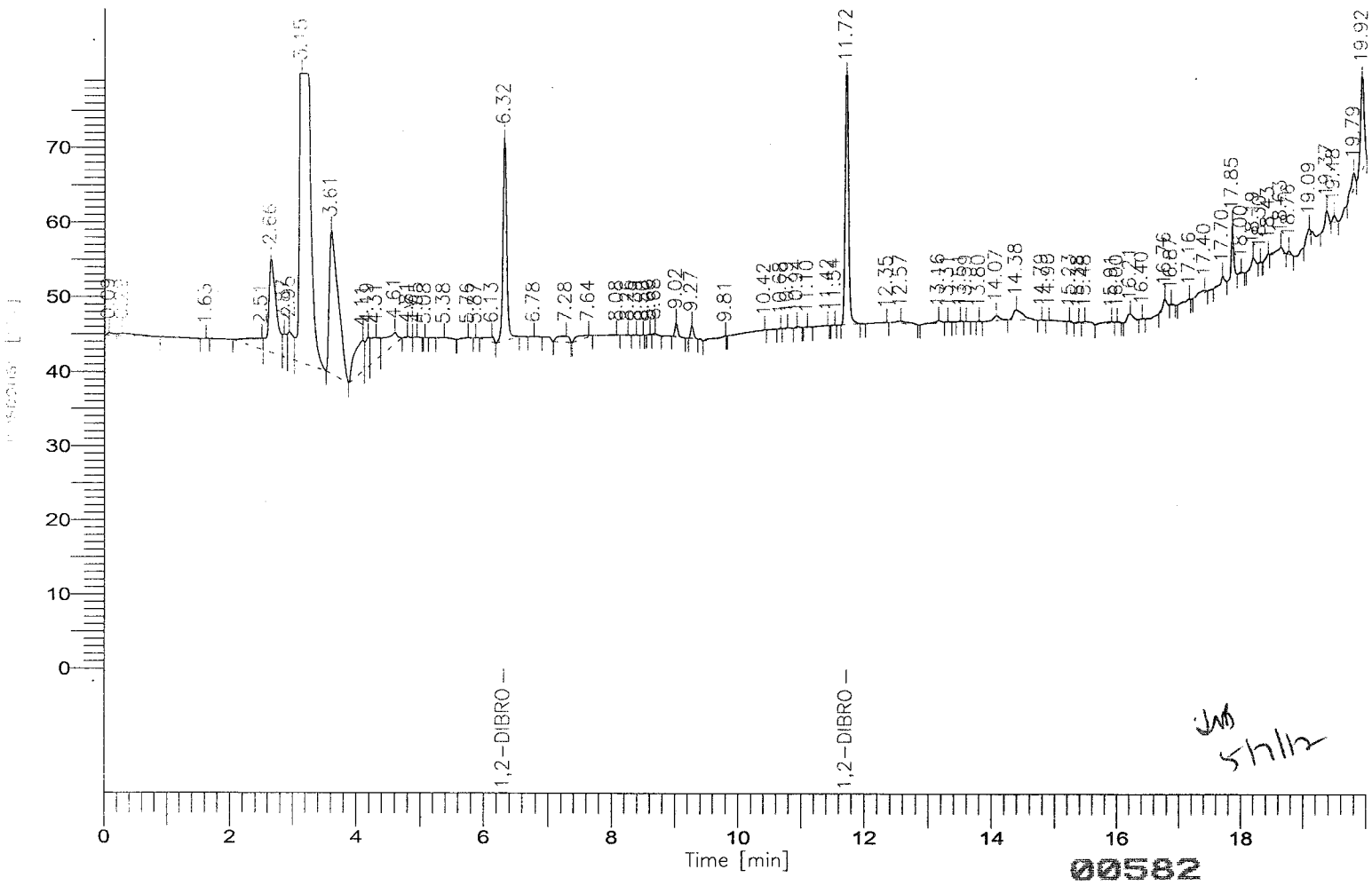
Software Version: 4.1<2F12>
Sample Name : CCV2 Time : 5/4/12 15:59
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 15:11
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY038.RAW
Result File : C:\TC4\158\MAY2012\AMAY038.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY038.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

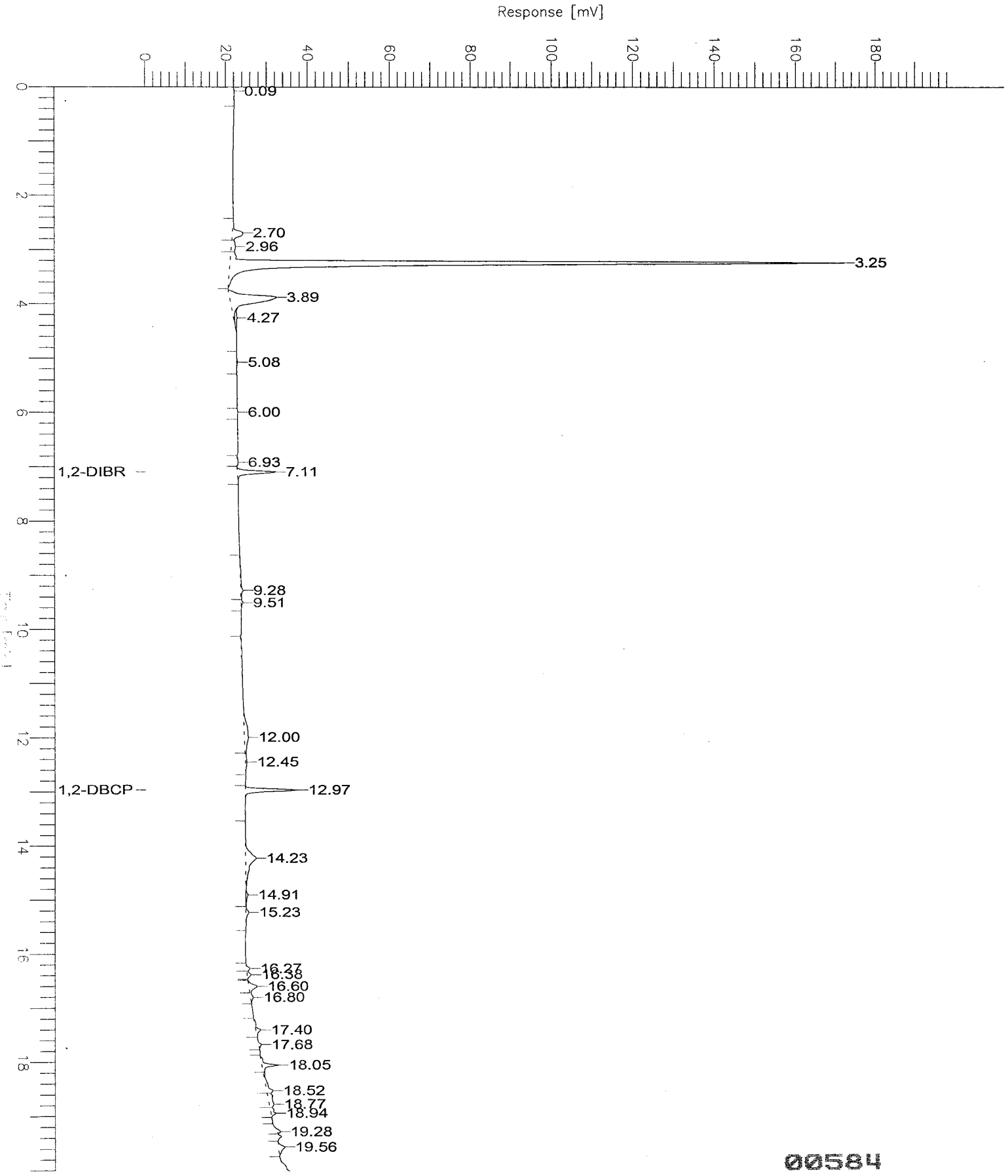
| Time (min) | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.32 | 1,2-DIBROMOETHANE | 0.0050 | 28017.34 | 108806.00 | 35 | 2 | 0.28687 | Pass |
| 11.72 | 1,2-DIBROMO3CHLOROPR | 0.0045 | 37273.13 | 131726.00 | 35 | 2 | 0.25437 | |
| | | | 65290.46 | 240532.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY038.TX0

# Chromatogram

Sample Name : CCV2
FileName : C:\TC4\158\MAY2012\BMAY038.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:59
Time of Injection: 5/4/12 15:11
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00584

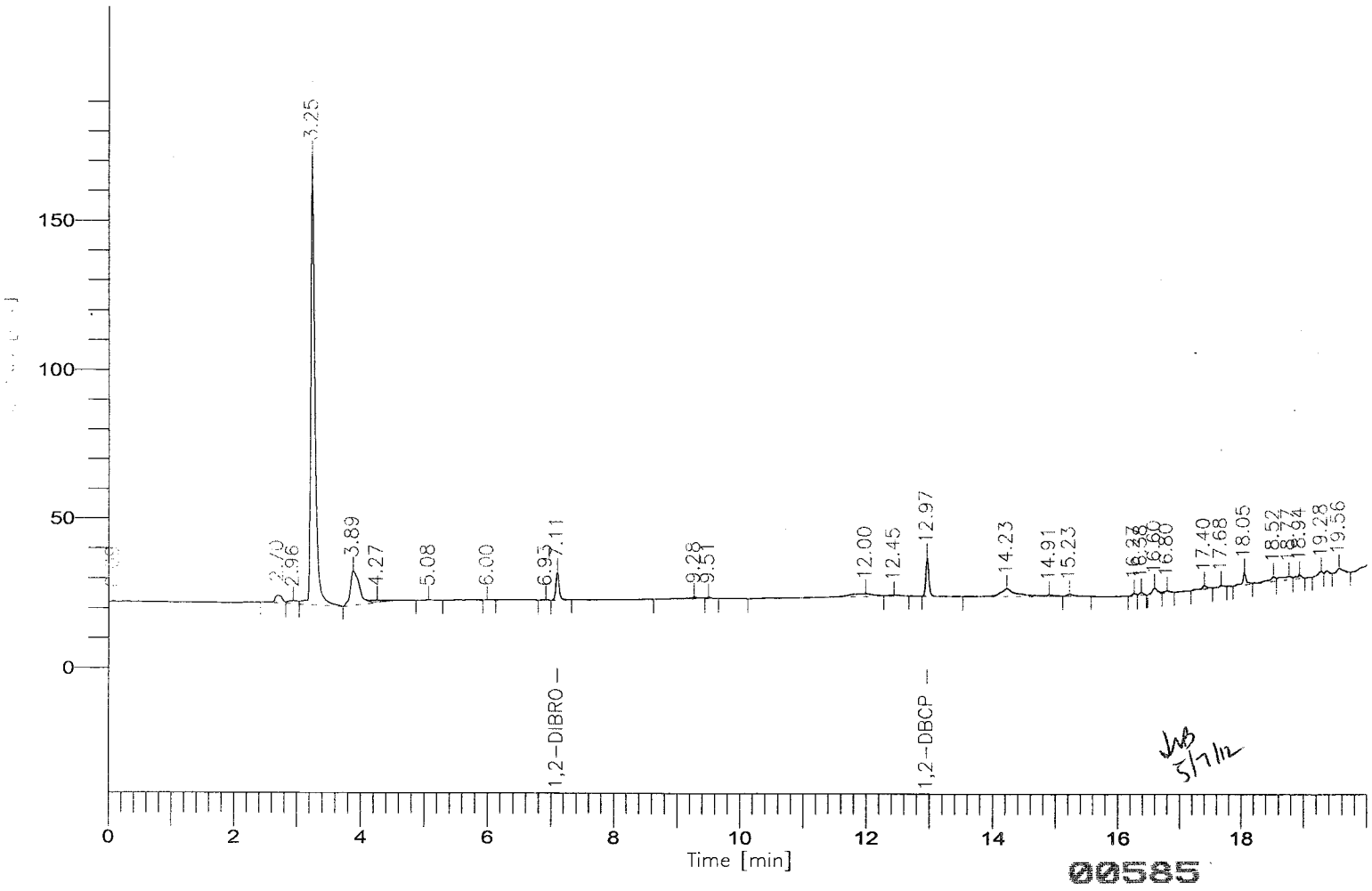
Software Version: 4.1<2F12>
Sample Name : CCV2 Time : 5/4/12 15:59
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 15:11
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY038.RAW
Result File : C:\TC4\158\MAY2012\BMAY038.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY038.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




JWB 5/7/12

00585

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0049 | 9640.16 | 35427.00 | 35 | 2 | 0.28137 Pass |
| 12.97 | 1,2-DBCP (2C) | 0.0051 | 12982.09 | 43173.00 | 35 | 2 | 0.29156 |
| | | | 22622.25 | 78600.00 | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY038.TX0

# METHOD BLANK DATA SHEET
## USEPA-8011

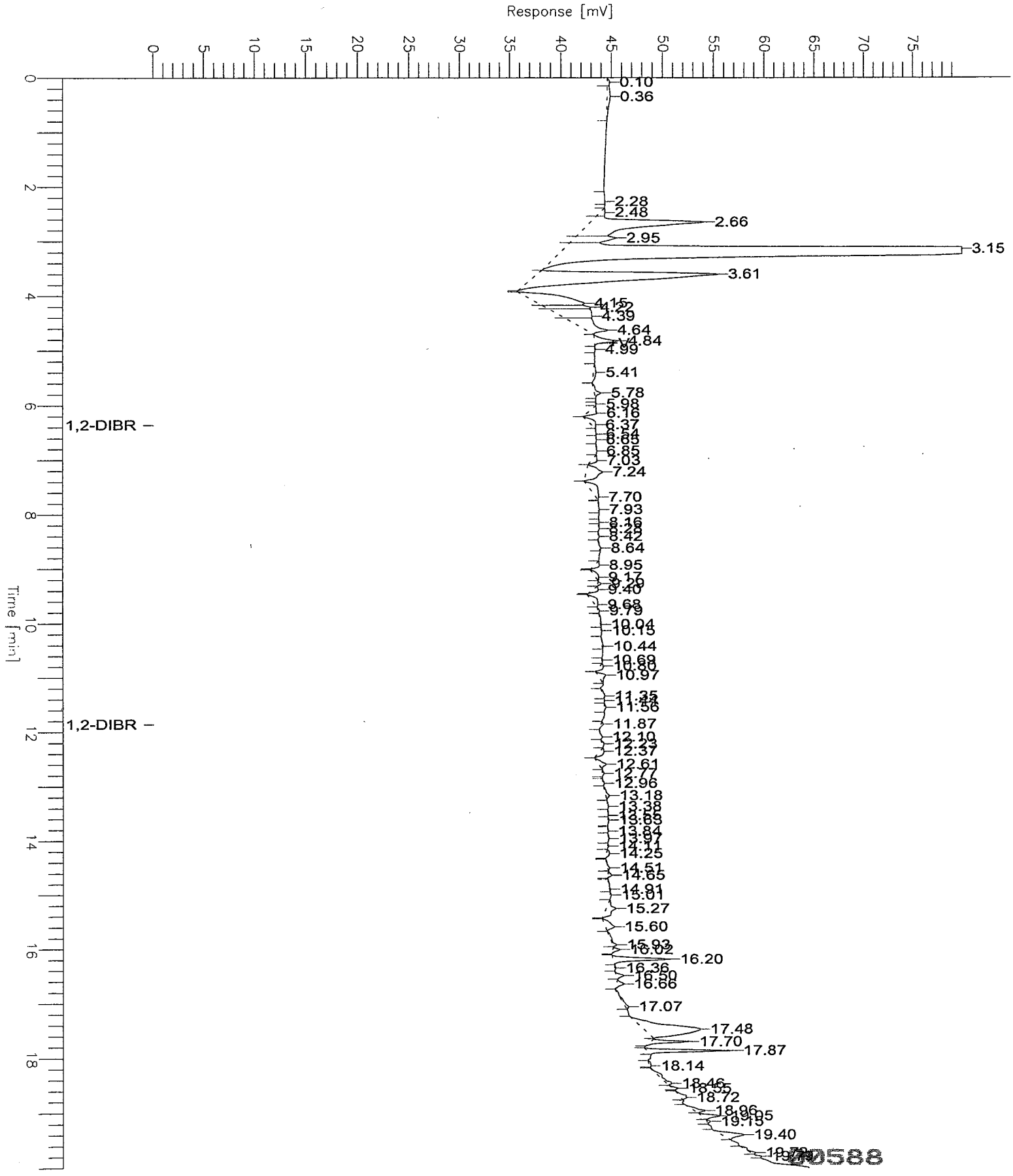
Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1204486-BLK1
File ID: AAPR298-0
Prepared: 04/16/12 09:29
Analyzed: 04/16/12 16:29
Preparation: Method-Specific Extracti
Initial/Final: 35 mL / 2 mL
QC Batch: 1204486
Sequence: 2D17019
Calibration: 2D17008
Instrument: 158

| CAS No. | Analyte | Concentration | Unit | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.050 | ug/L | 0.0078 | 0.050 | U |

# Chromatogram

Sample Name : 1204486-BLK1
FileName : C:\TC4\158\APRIL2~1\AAPR298.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 16:29
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




20588

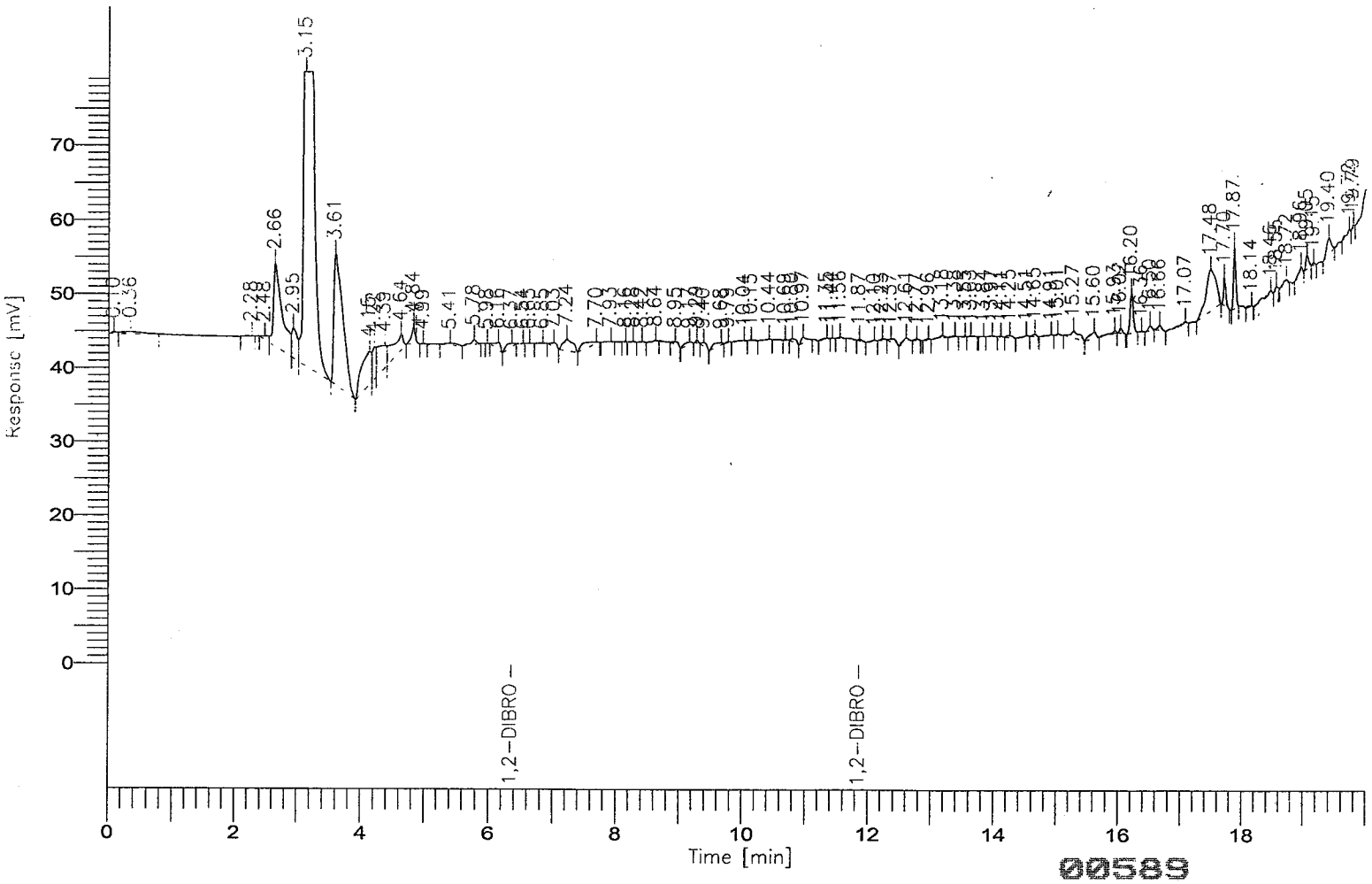
Software Version: 4.1<2F12>
Sample Name : 1204486-BLK1 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 16:29
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR298.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR298.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR298.F
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

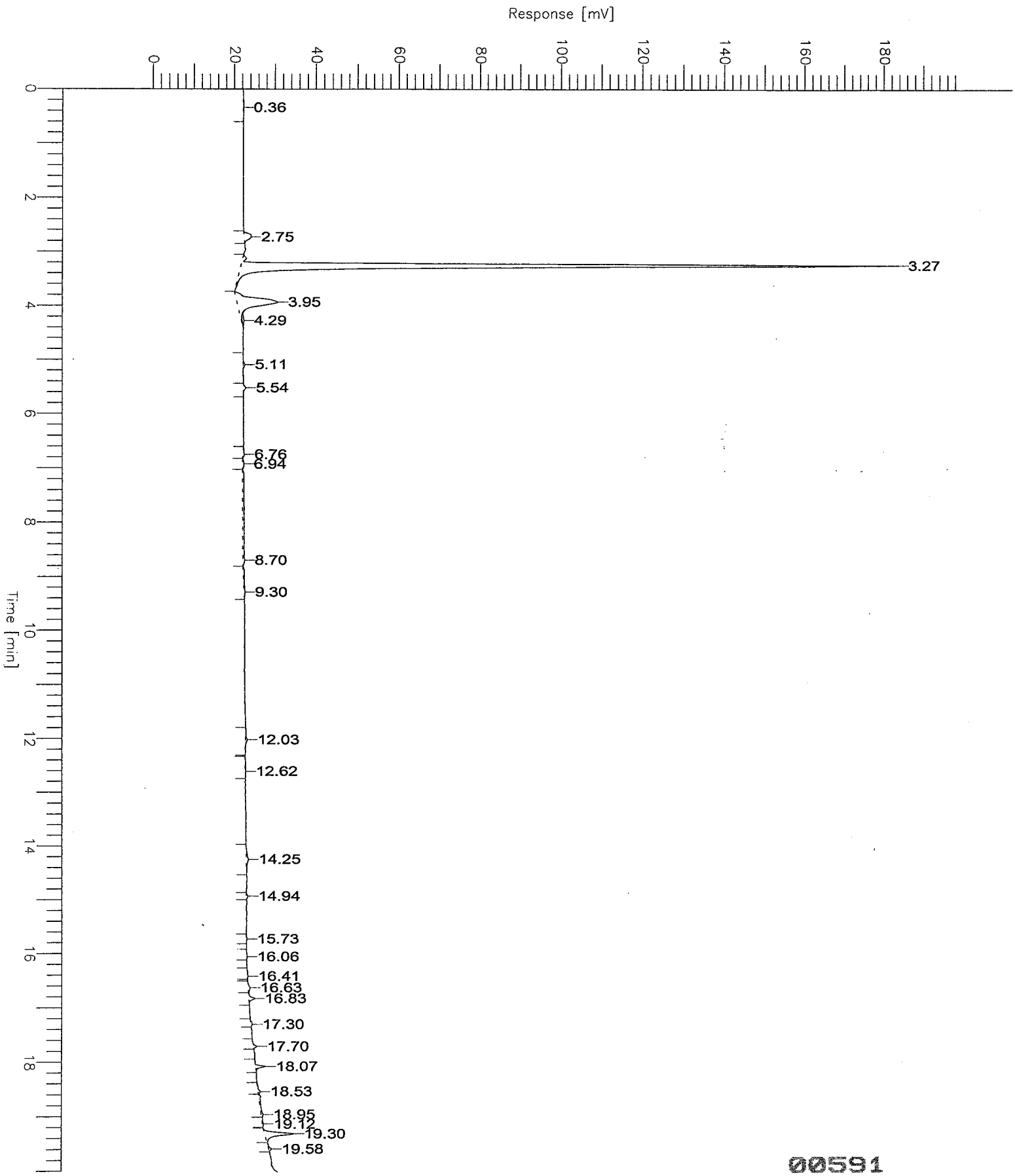
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.37 | 1,2-DIBROMOETHANE | -0.0005 | 409.88 | 6035.50 | 35 | 2 | -0.02849 | <MDL |
| 11.87 | 1,2-DIBROMO3CHLOROPR | -0.0002 | 205.35 | 700.50 | 35 | 2 | -0.01340 | ↓ |
| | | | 615.23 | 6736.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR298.TX0

# Chromatogram

Sample Name : 1204486-BLK1
FileName : C:\TC4\158\APRIL2~1\BAPR298.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 16:29
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00591

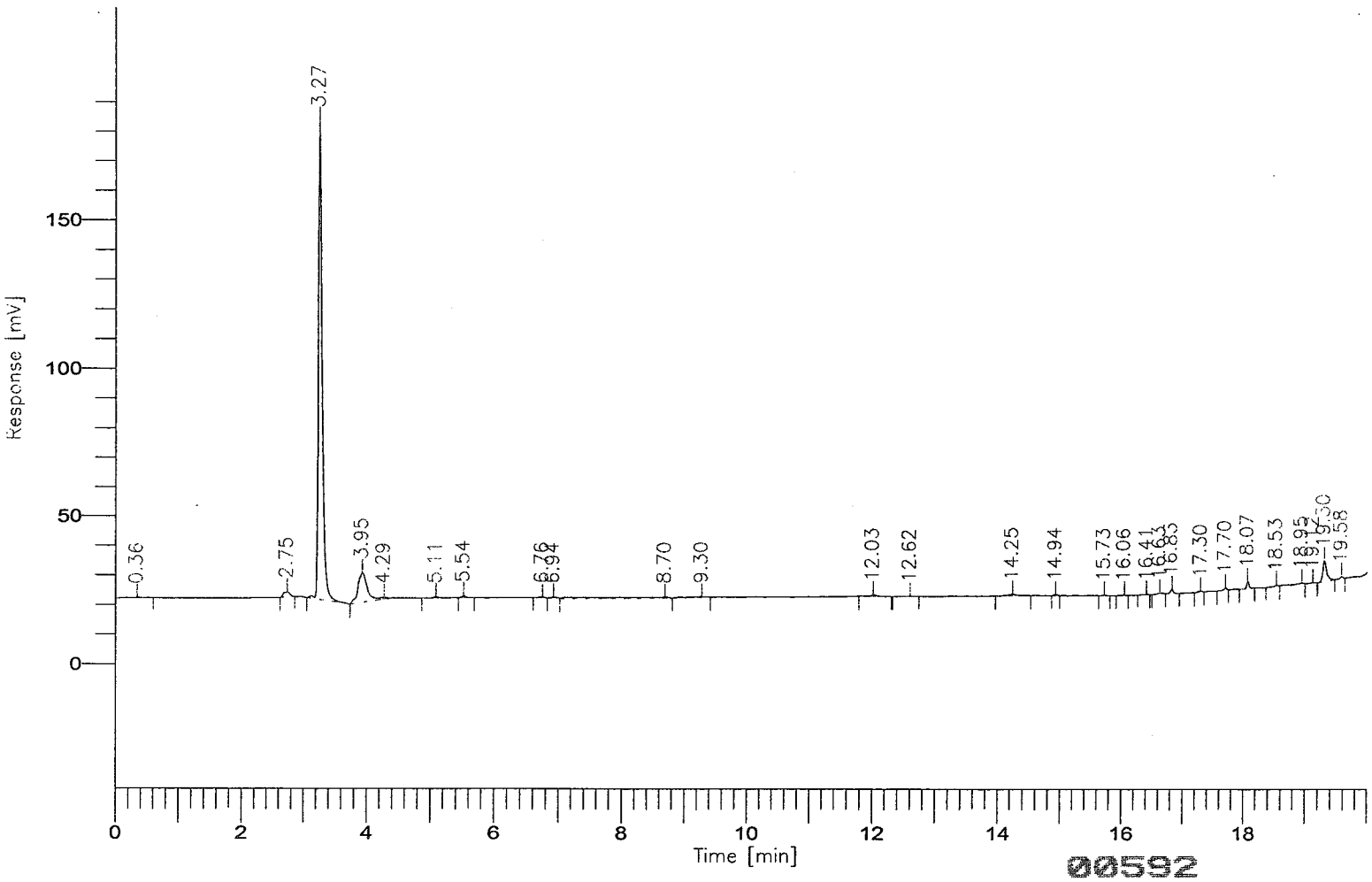
Software Version: 4.1<2F12>
Sample Name : 1204486-BLK1 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 16:29
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR298.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR298.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR298.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00592

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | 2MBL |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | ↓ |
| | | | 0.00 | 0.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR298.TX0

# METHOD BLANK DATA SHEET
## USEPA-8011

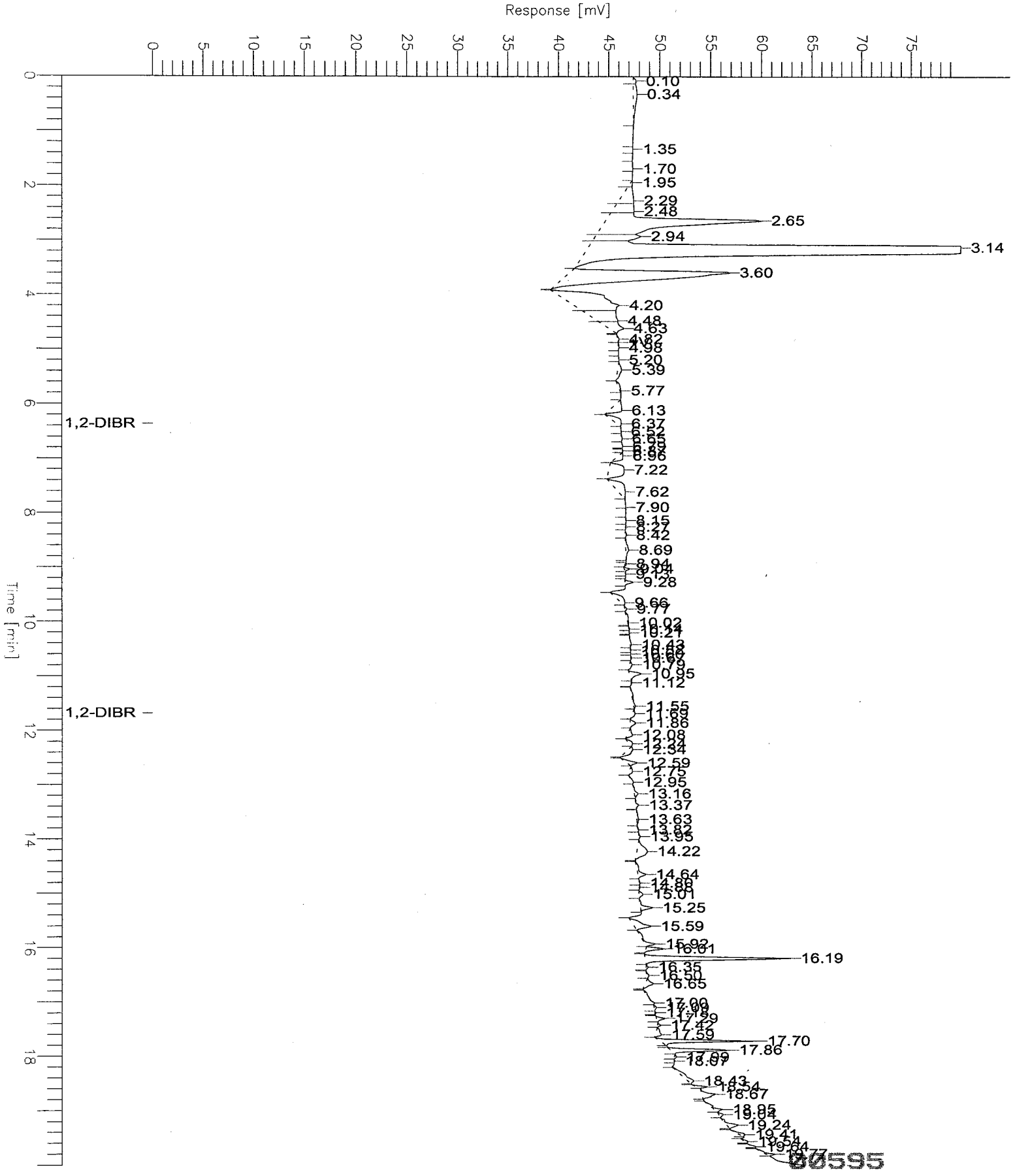
Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205087-BLK1
File ID: AAPR400-0
Prepared: 04/24/12 13:36
Analyzed: 04/24/12 16:21
Preparation: Method-Specific Extracti
Initial/Final: 35 mL / 2 mL
QC Batch: 1205087
Sequence: 2D25008
Calibration: 2D17008
Instrument: 158

| CAS No. | Analyte | Concentration | Unit | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.050 | ug/L | 0.0078 | 0.050 | U |

# Chromatogram

Sample Name : 1205087-BLK1
FileName : C:\TC4\158\APRIL2~1\AAPR400.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 16:21
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00595

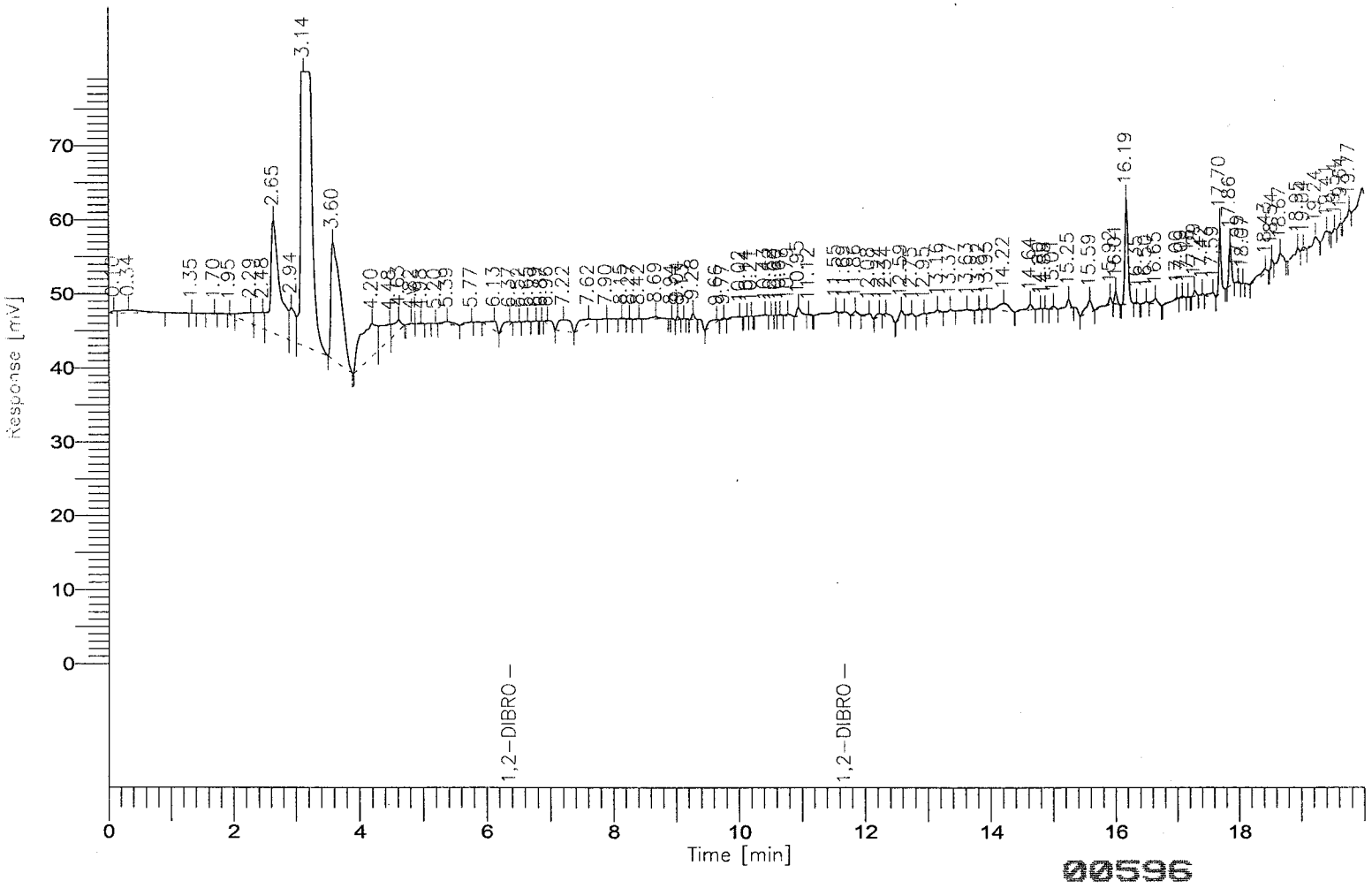
Software Version: 4.1<2F12>
Sample Name : 1205087-BLK1 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 16:21
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR400.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR400.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR400.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00596

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

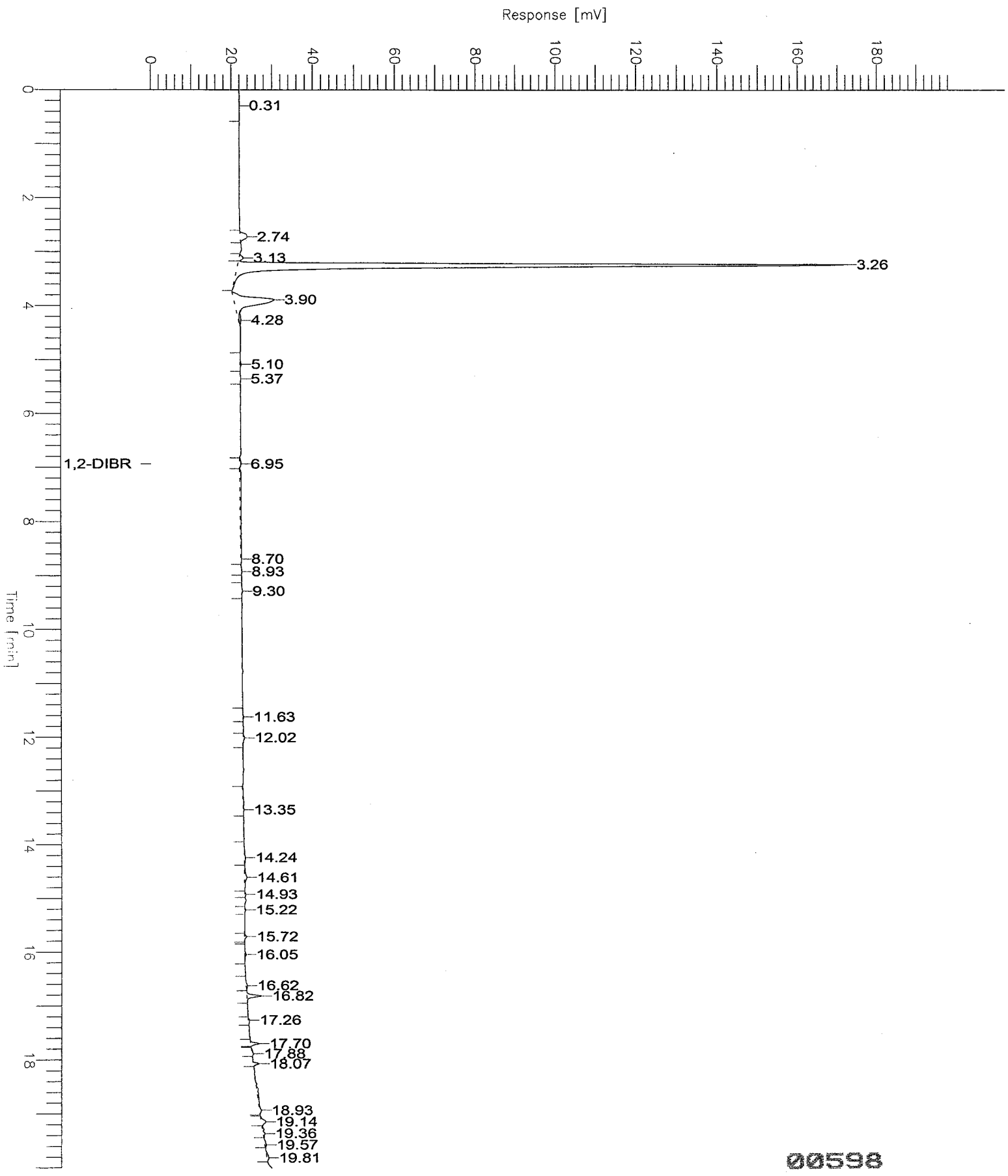
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.37 | 1,2-DIBROMOETHANE | -0.0005 | 388.47 | 7803.00 | 35 | 2 | -0.02873 | <MDL |
| 11.69 | 1,2-DIBROMO3CHLOROPR | -0.0002 | 265.06 | 1553.00 | 35 | 2 | -0.01297 | ↓ |
| | | | 653.54 | 9356.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR400.TX0

# Chromatogram

Sample Name : 1205087-BLK1
FileName : C:\TC4\158\APRIL2~1\BAPR400.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 16:21
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00598

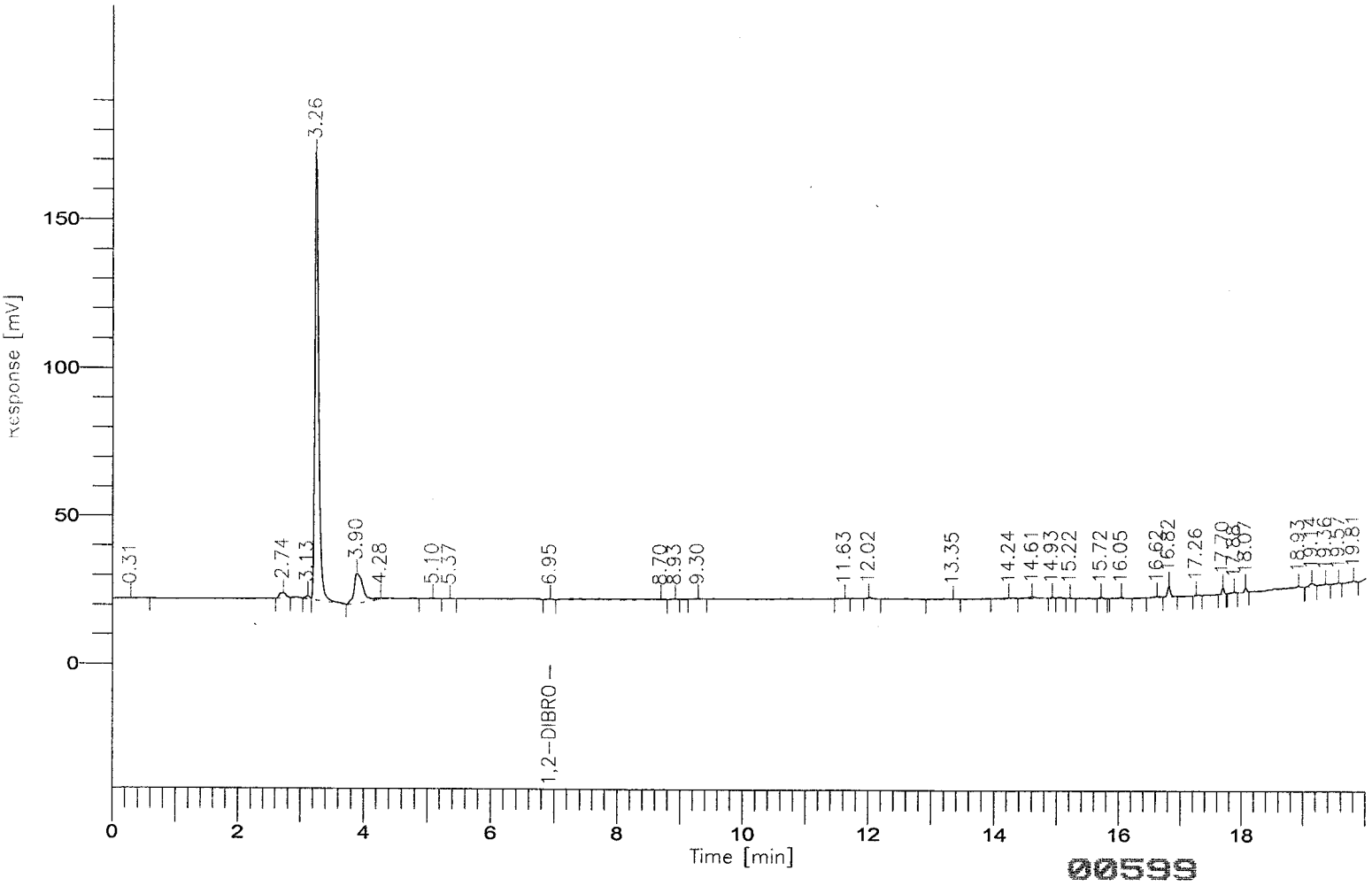
Software Version: 4.1<2F12>
Sample Name : 1205087-BLK1 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 16:21
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR400.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR400.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR400.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00599

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.95 | 1,2-DIBROMOETHANE (2 | -4.70e-06 | 313.60 | 2524.00 | 35 | 2 | -0.00027 | <MDL |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | ↓ |
| | | | 313.60 | 2524.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR400.TX0

# METHOD BLANK DATA SHEET
## USEPA-8011

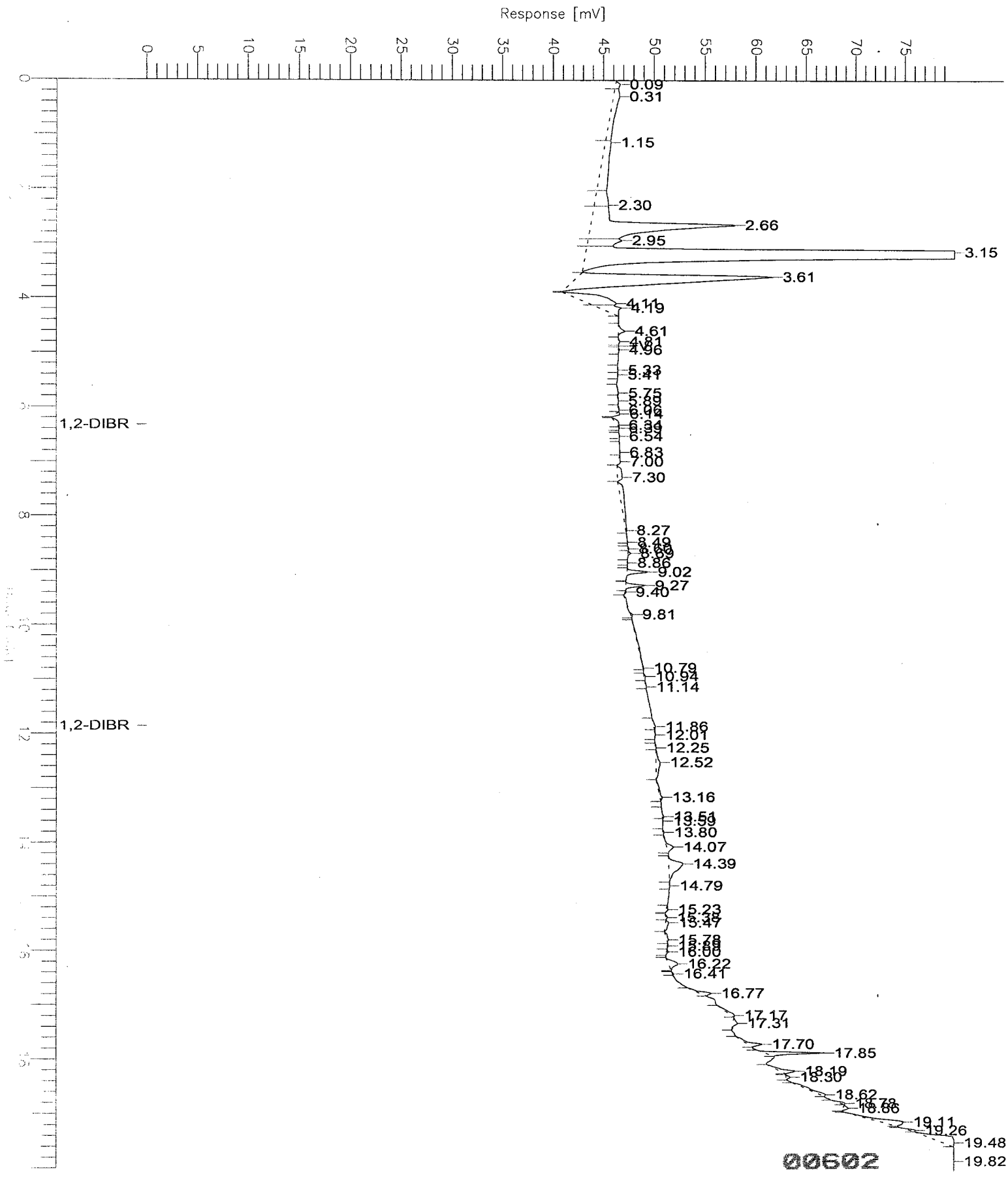
Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205560-BLK1
File ID: AMAY028-0
Prepared: 05/04/12 08:27
Analyzed: 05/04/12 10:31
Preparation: Method-Specific Extracti
Initial/Final: 35 mL / 2 mL
QC Batch: 1205560
Sequence: 2E07013
Calibration: 2D17008
Instrument: 158

| CAS No. | Analyte | Concentration | Unit | MDL | MRL | Q |
|---|---|---|---|---|---|---|
| 106-93-4 | 1,2-Dibromoethane | 0.050 | ug/L | 0.0078 | 0.050 | U |

# Chromatogram

Sample Name : 1205560-BLK1
FileName : C:\TC4\158\MAY2012\AMAY028.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 10:31
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



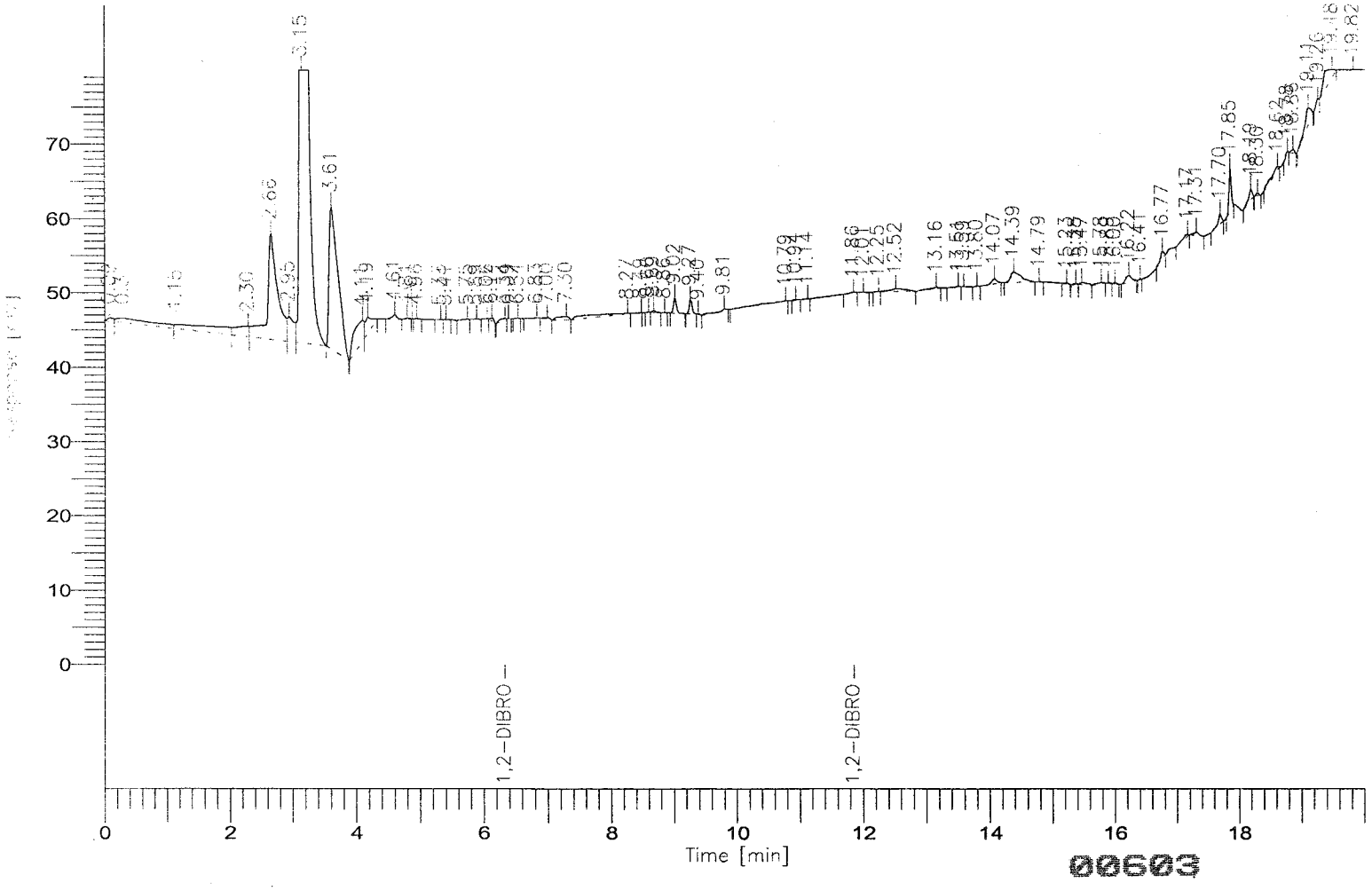
Software Version: 4.1<2F12>
Sample Name : 1205560-BLK1 Time : 5/4/12 15:58
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 10:31
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY028.RAW
Result File : C:\TC4\158\MAY2012\AMAY028.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY028.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

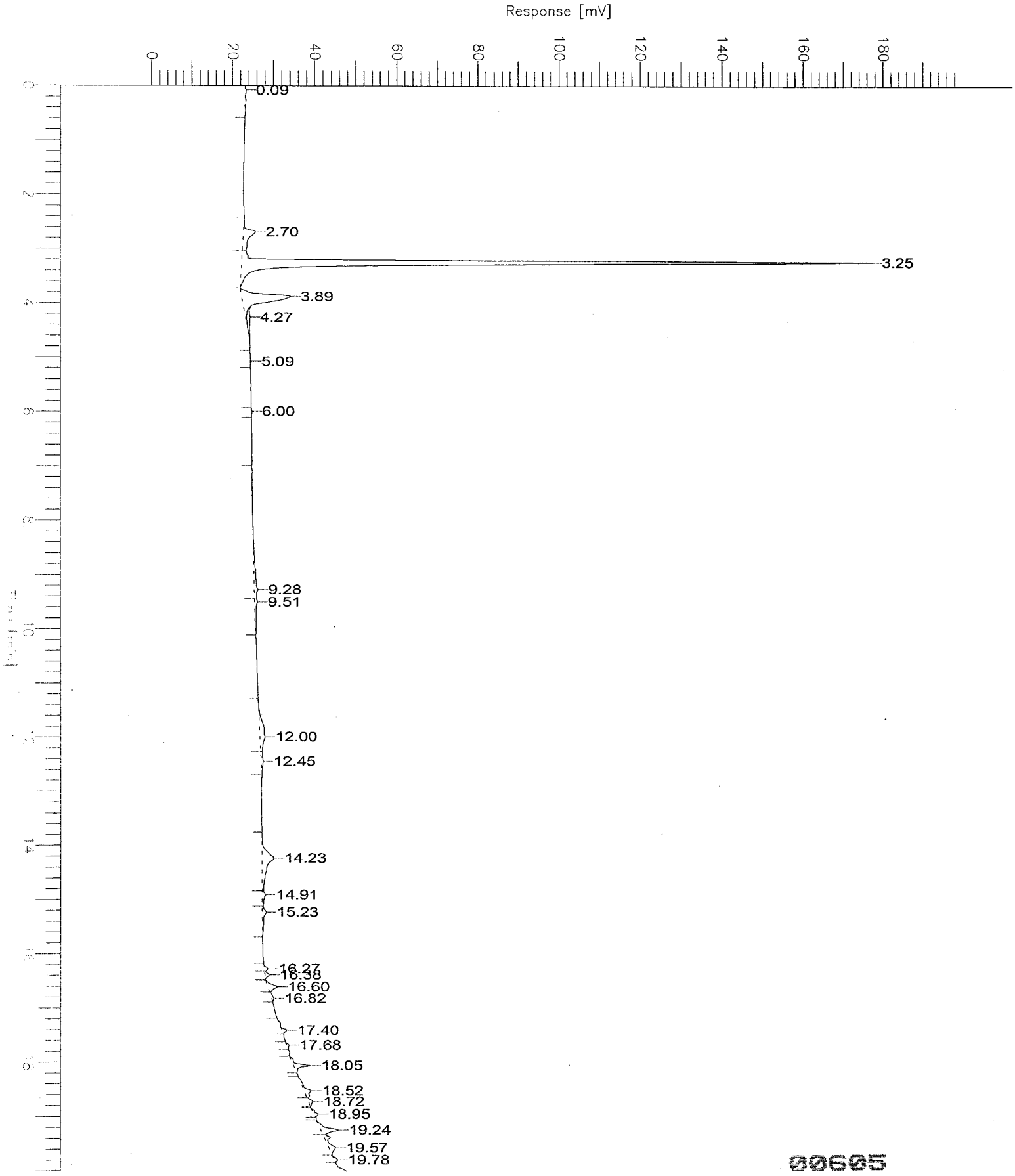
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | -0.0006 | 124.50 | 2457.00 | 35 | 2 | -0.03175 | <MDL |
| 11.86 | 1,2-DIBROMO3CHLOROPR | -0.0002 | 121.86 | 1007.50 | 35 | 2 | -0.01400 | |
| | | | 246.36 | 3464.50 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY028.TX0

# Chromatogram

Sample Name : 1205560-BLK1
FileName : C:\TC4\158\MAY2012\BMAY028.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 10:31
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00605

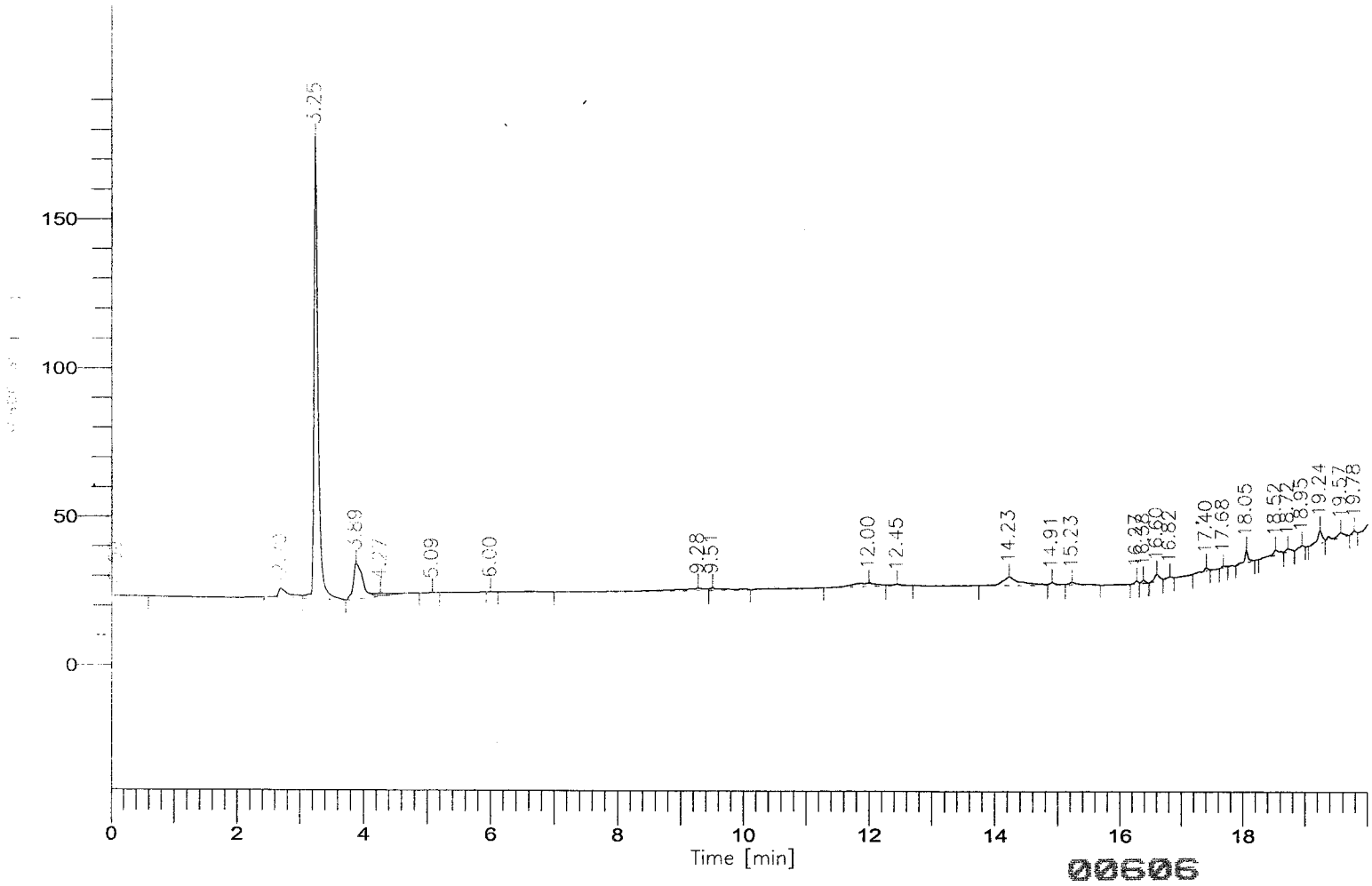
Software Version: 4.1<2F12>
Sample Name : 1205560-BLK1 Time : 5/4/12 15:58
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 10:31
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY028.RAW
Result File : C:\TC4\158\MAY2012\BMAY028.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY028.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00606

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | <MDL |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | |
| | | | 0.00 | 0.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY028.TX0

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1204486

SDG: KNM040512

Project: KNM

Laboratory ID: 1204486-BS1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

Sequence: 2D17019

| Analyte | Spike Added | LCS Conc. | LCS % Rec. # | QC Limits Rec. | Units |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.343 | 107 | 60 - 140 | ug/L |

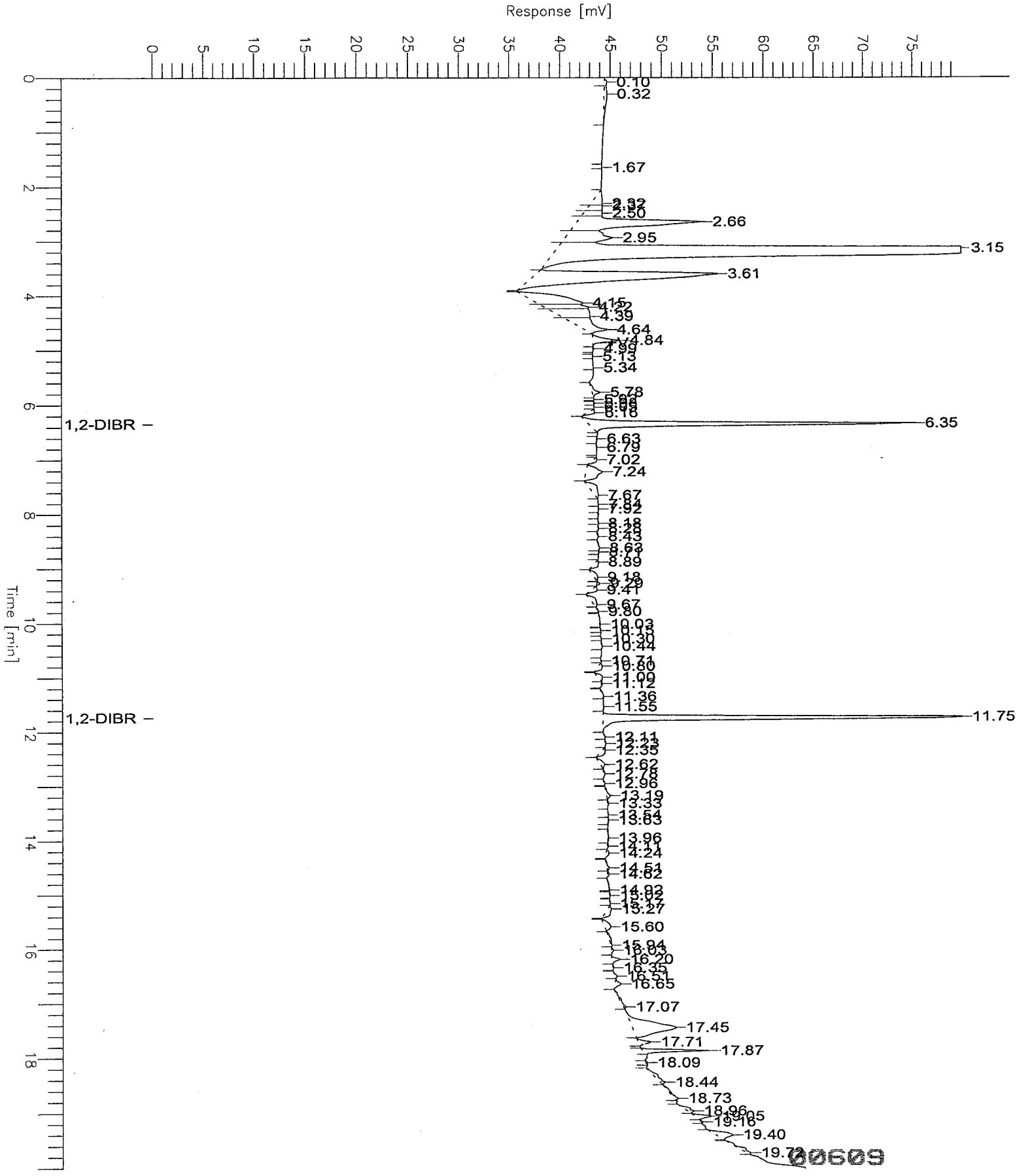
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : 1204486-BS1
FileName : C:\TC4\158\APRIL2~1\AAPR299.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 16:58
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00609

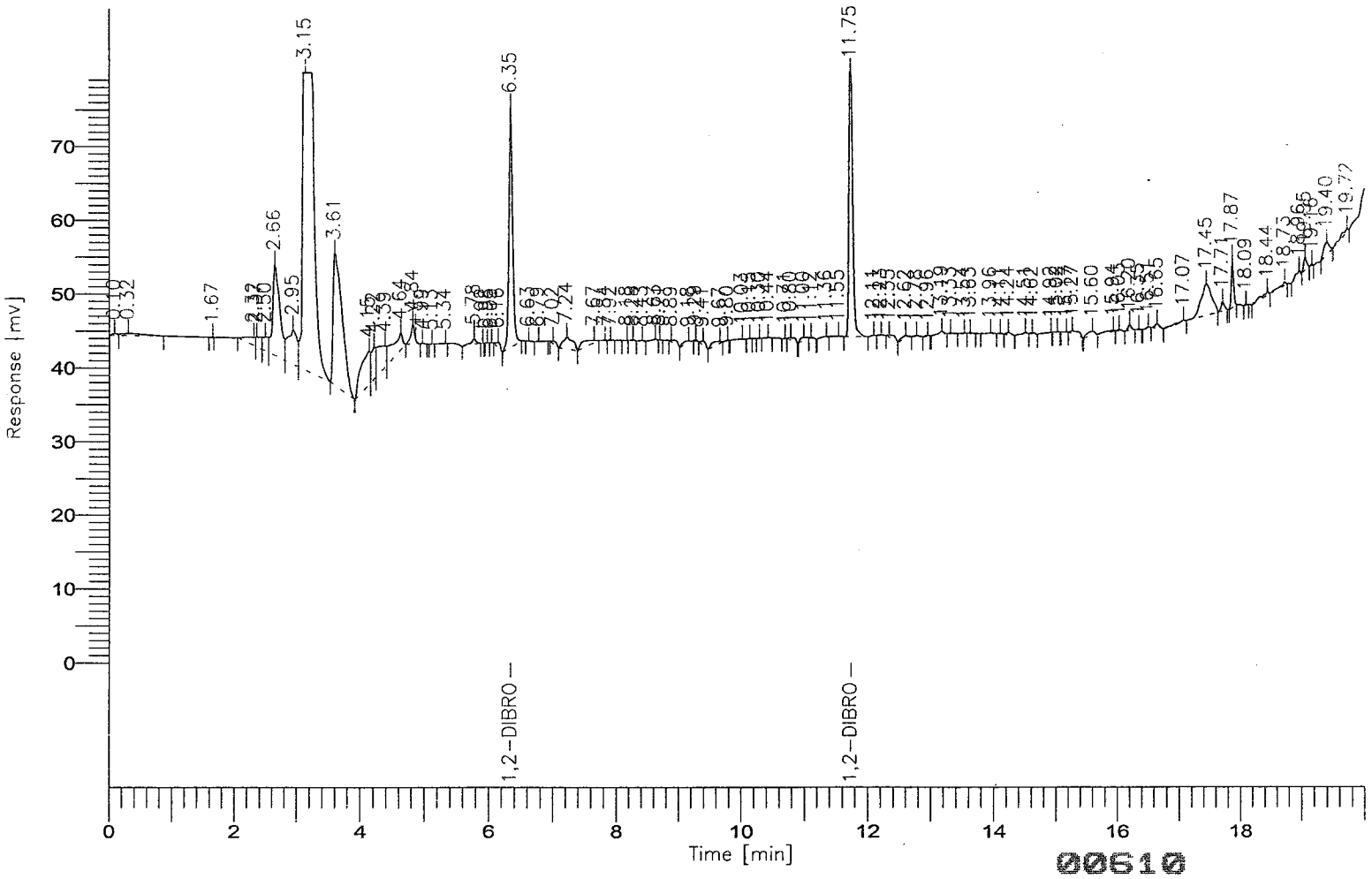
Software Version: 4.1<2F12>
Sample Name : 1204486-BS1 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 16:58
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR299.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR299.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR299.I
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

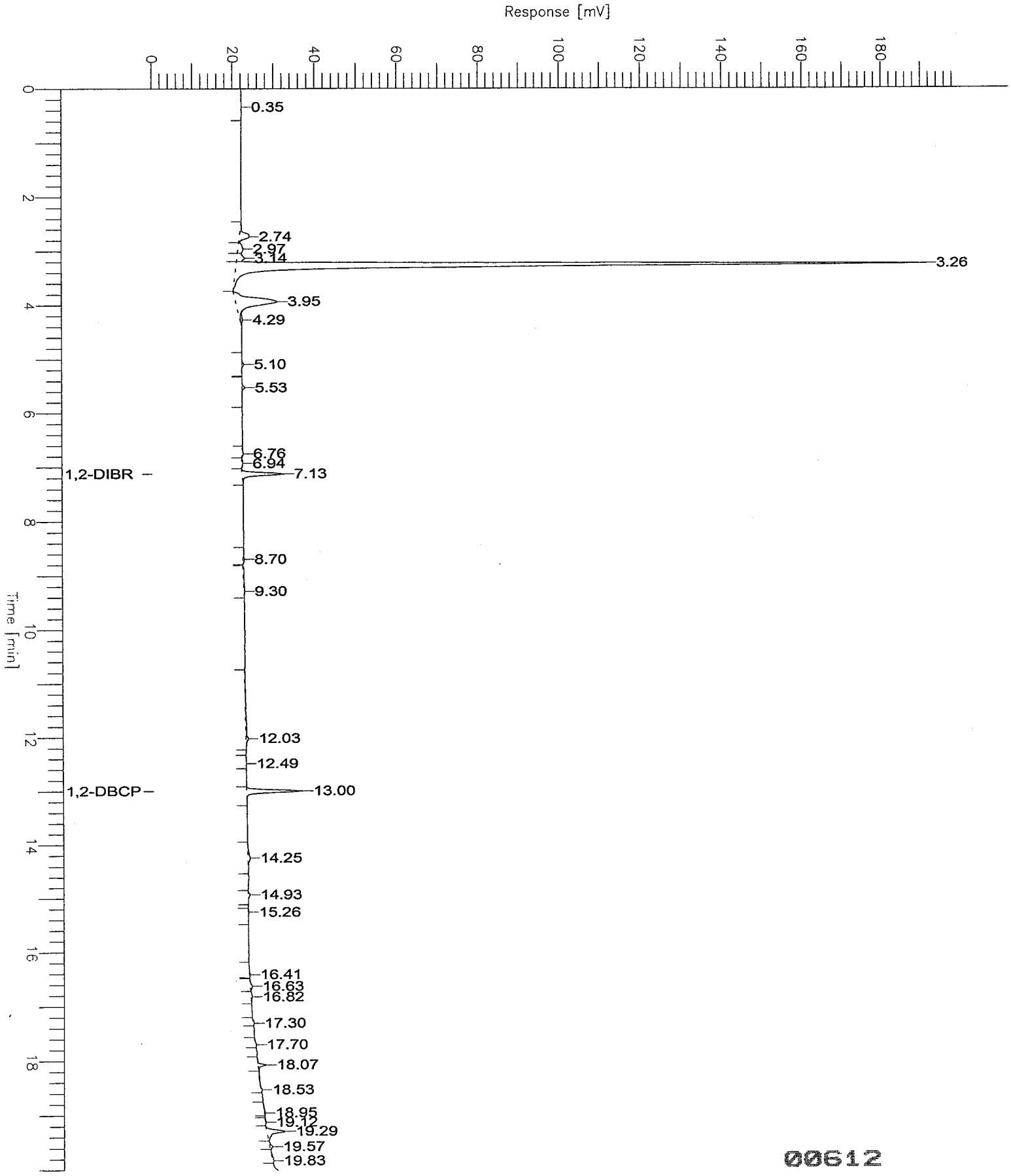
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.35 | 1,2-DIBROMOETHANE | 0.0060 | 32800.87 | 129396.00 | 35 | 2 | 0.34151 |
| 11.75 | 1,2-DIBROMO3CHLOROPR | 0.0056 | 46199.35 | 165648.00 | 35 | 2 | 0.31885 |
| | | | 79000.22 | 295044.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR299.TX0

# Chromatogram

Sample Name : 1204486-BS1
FileName : C:\TC4\158\APRIL2~1\BAPR299.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 16:58
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00612

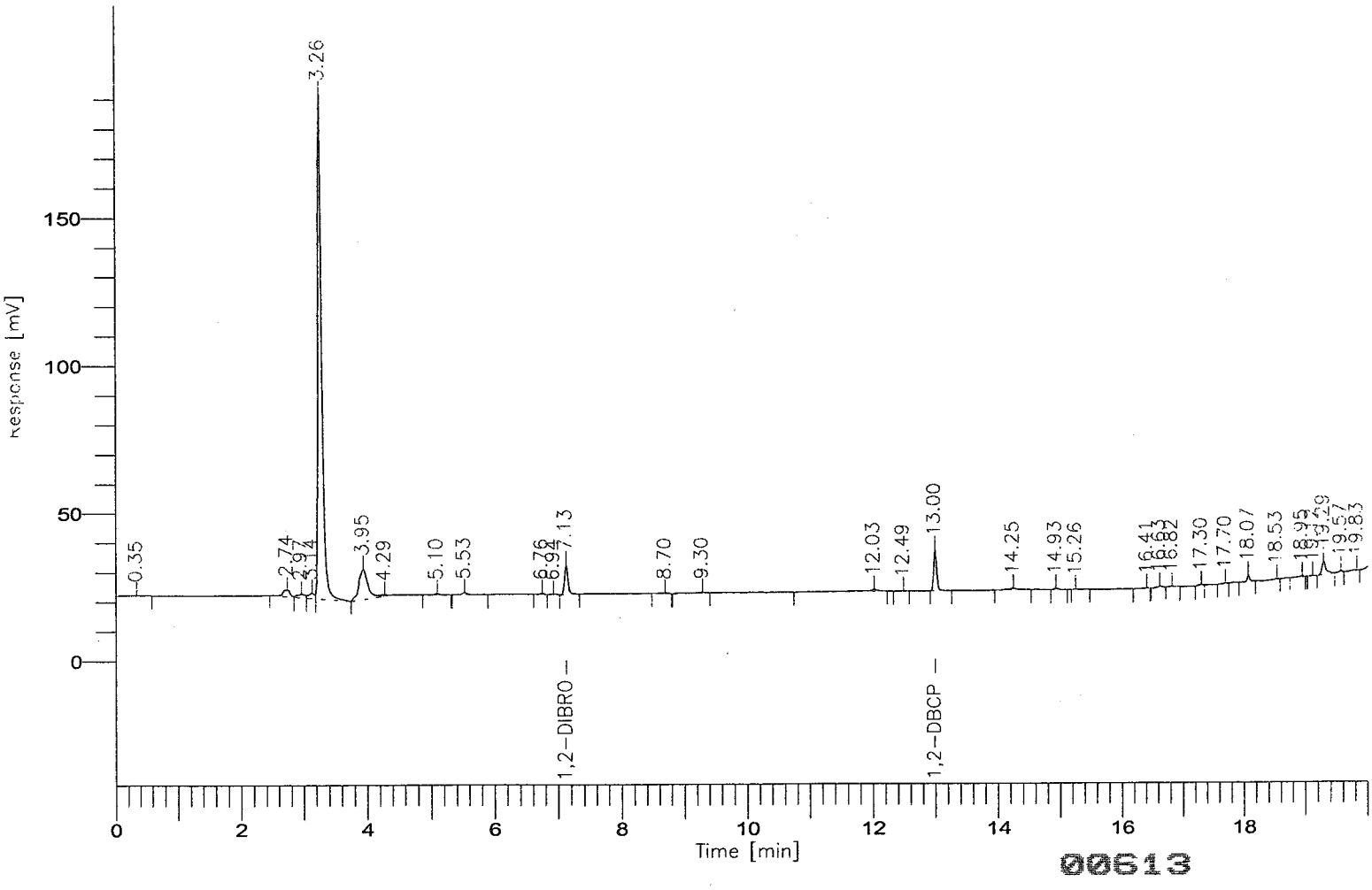
Software Version: 4.1<2F12>
Sample Name : 1204486-BS1 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 16:58
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR299.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR299.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR299.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00613

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.13 | 1,2-DIBROMOETHANE (2 | 0.0052 | 10253.97 | 37580.00 | 35 | 2 | 0.29990 |
| 13.00 | 1,2-DBCP (2C) | 0.0054 | 13884.72 | 46143.50 | 35 | 2 | 0.31114 |
| | | | 24138.69 | 83723.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR299.TX0

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM040512
Project: KNM
Laboratory ID: 1205087-BS1
Preparation: Method-Specific Extraction
Initial/Final: 35 mL / 2 mL

QC Batch: 1205087
Sequence: 2D25008

| Analyte | Spike Added | LCS Conc. | LCS % Rec. # | QC Limits Rec. | Units |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.360 | 112 | 60 - 140 | ug/L |

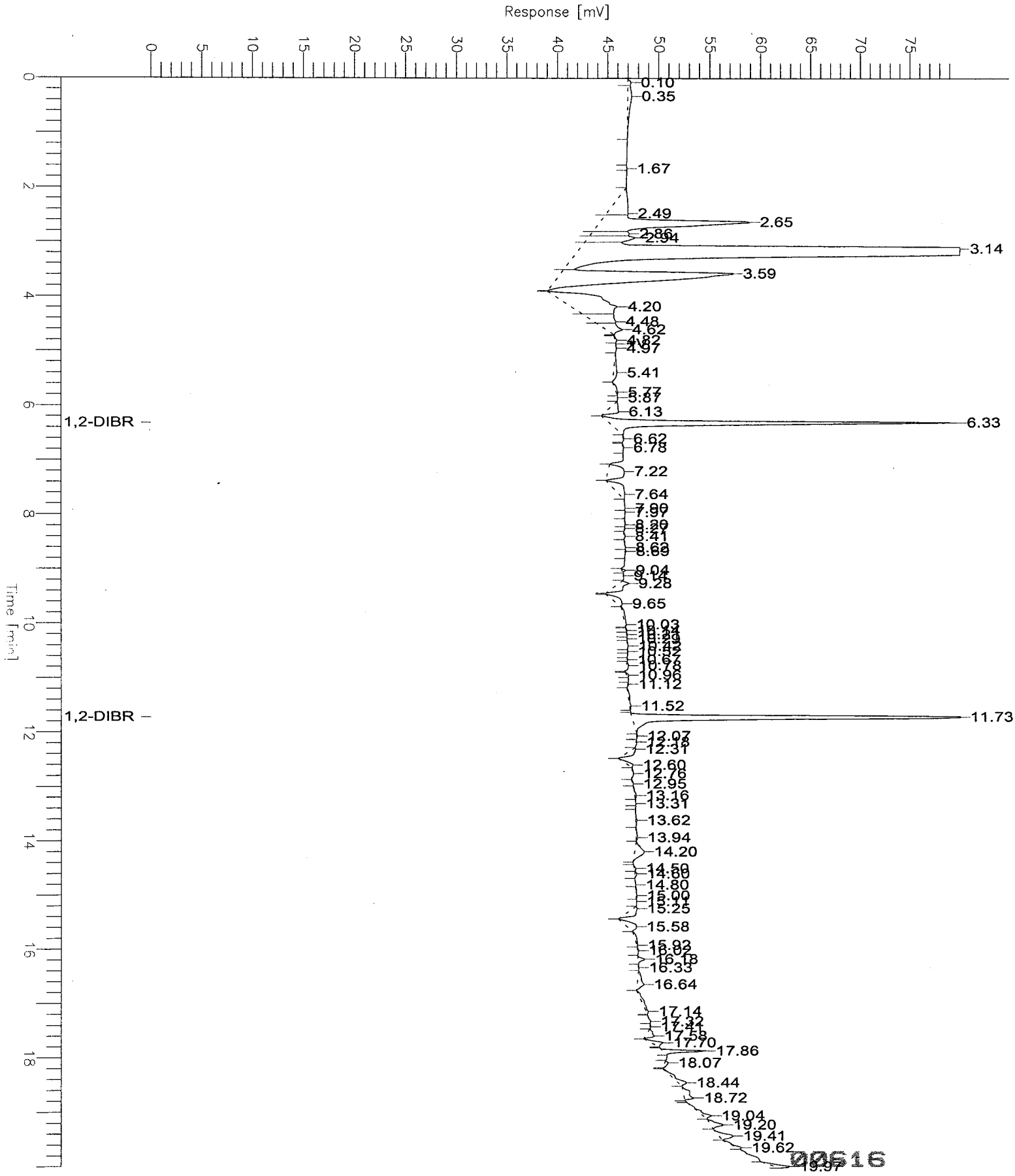
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : 1205087-BS1
FileName : C:\TC4\158\APRIL2~1\AAPR401.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 16:49
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00516

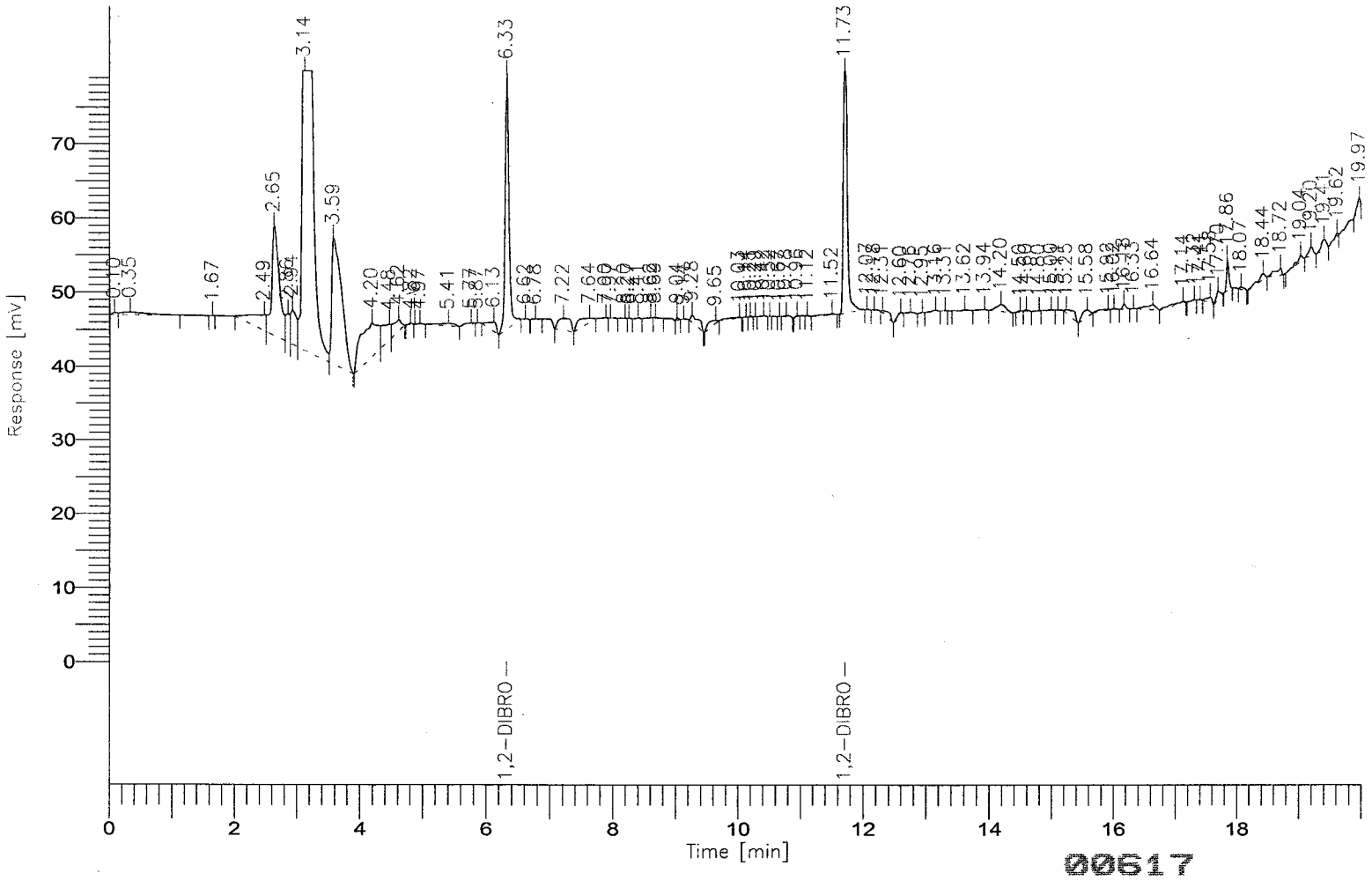
Software Version: 4.1<2F12>
Sample Name : 1205087-BS1 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 16:49
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR401.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR401.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR401.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

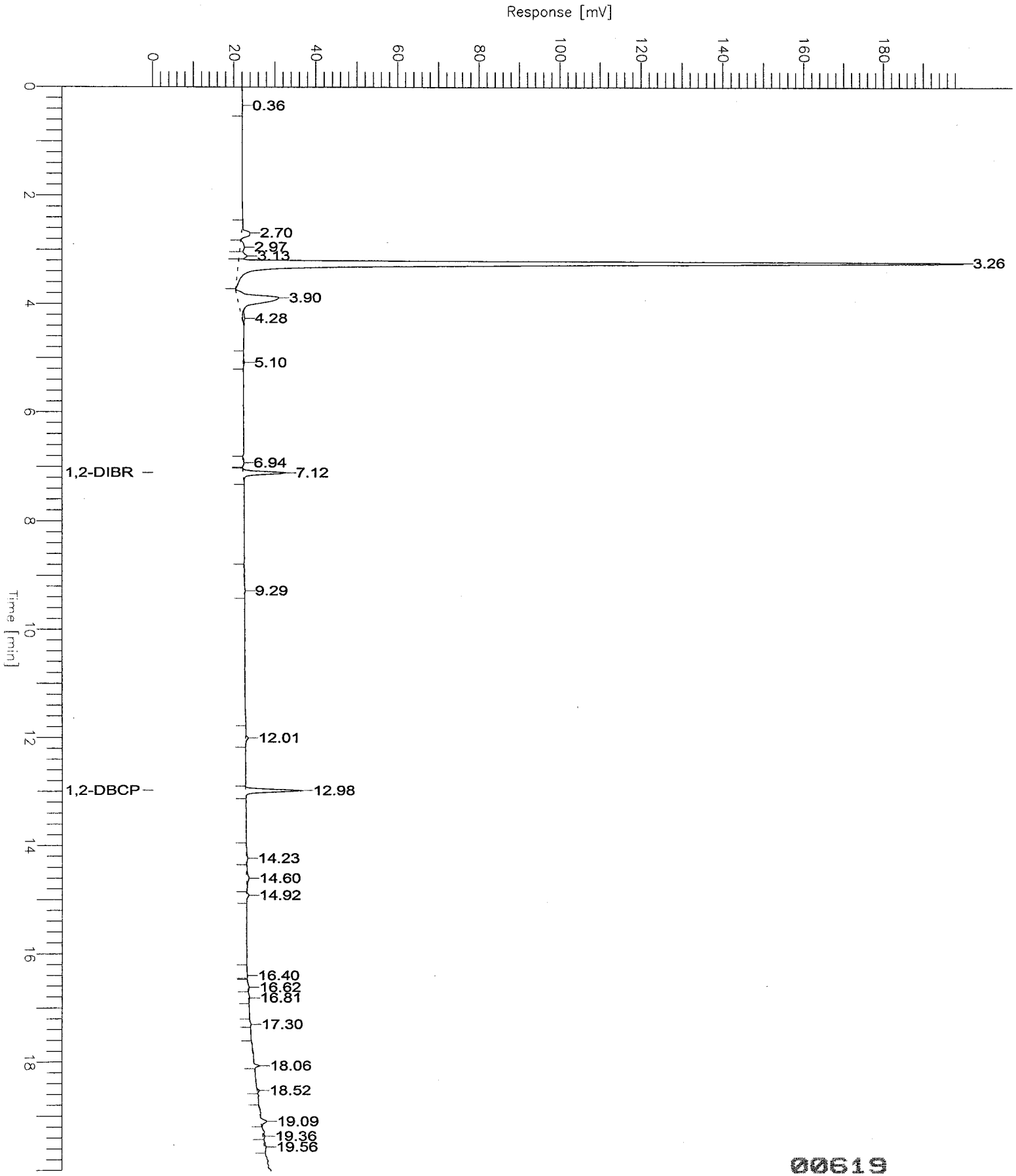
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.33 | 1,2-DIBROMOETHANE | 0.0063 | 34636.34 | 140404.50 | 35 | 2 | 0.36248 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0059 | 48940.81 | 181883.00 | 35 | 2 | 0.33865 |
| | | | 83577.16 | 322287.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR401.TX0

# Chromatogram

Sample Name : 1205087-BS1
FileName : C:\TC4\158\APRIL2~1\BAPR401.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 16:49
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00619

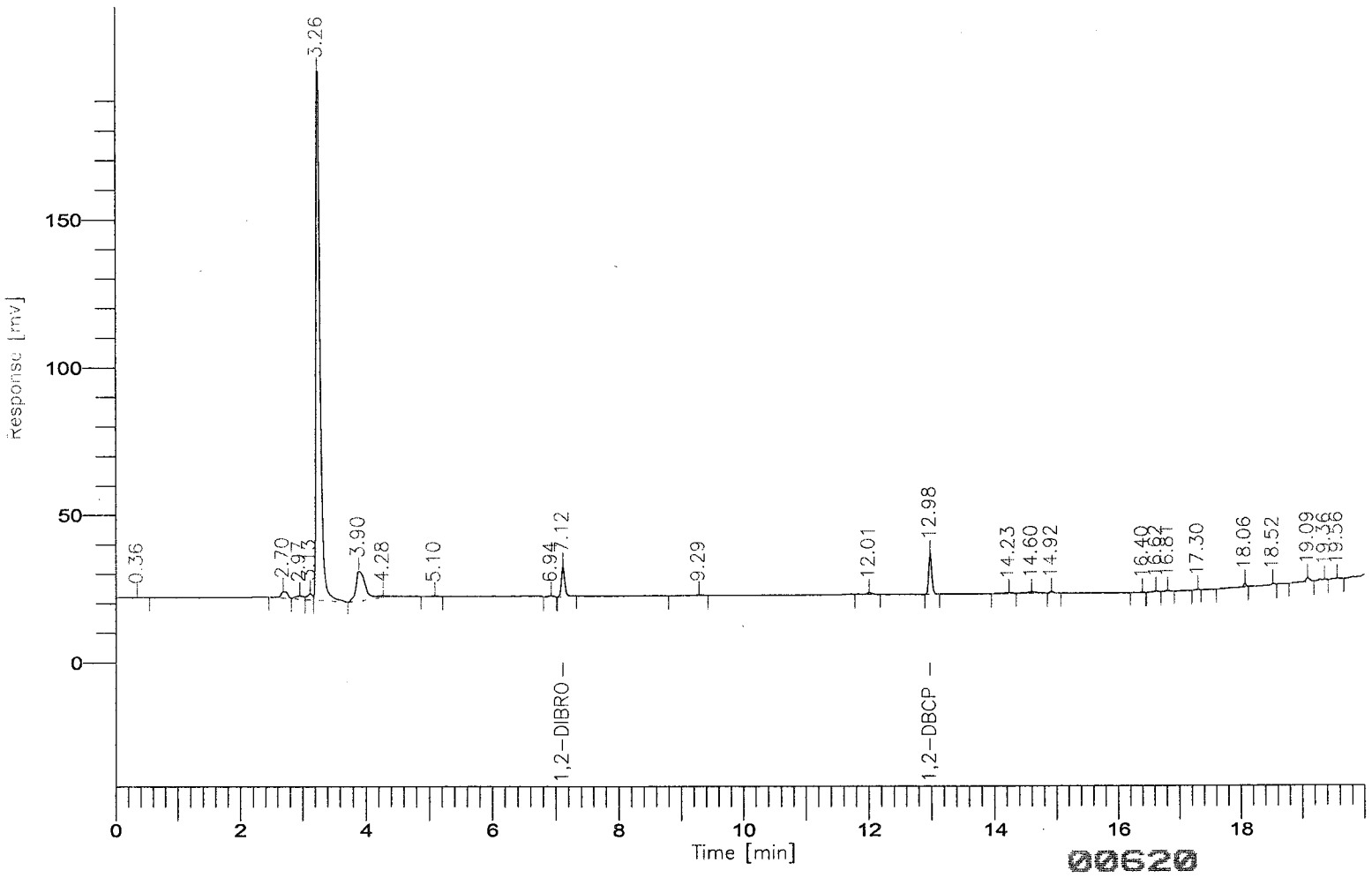
Software Version: 4.1<2F12>
Sample Name : 1205087-BS1 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 16:49
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR401.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR401.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR401.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00620

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0054 | 10587.85 | 38560.00 | 35 | 2 | 0.30998 |
| 12.98 | 1,2-DBCP (2C) | 0.0055 | 13987.24 | 45778.00 | 35 | 2 | 0.31336 |
| | | | 24575.08 | 84338.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR401.TX0

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512

Client: TechLaw
Project: KNM

Matrix: Water
Laboratory ID: 1205560-BS1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

QC Batch: 1205560
Sequence: 2E07013

| Analyte | Spike Added | LCS Conc. | LCS % Rec. # | QC Limits Rec. | Units |
|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.263 | 82 | 60 - 140 | ug/L |

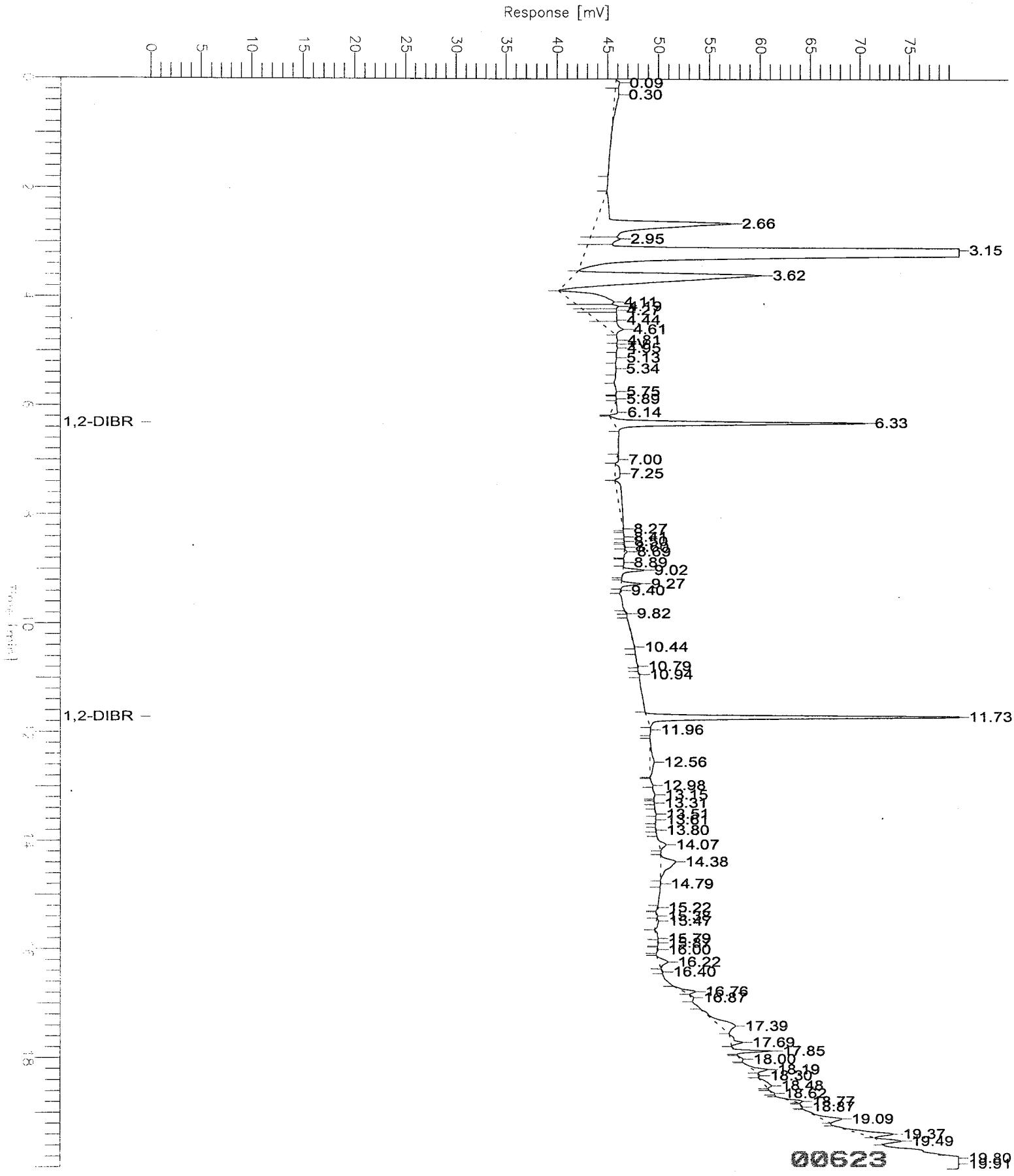
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : 1205560-BS1
FileName : C:\TC4\158\MAY2012\AMAY029.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 10:59
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



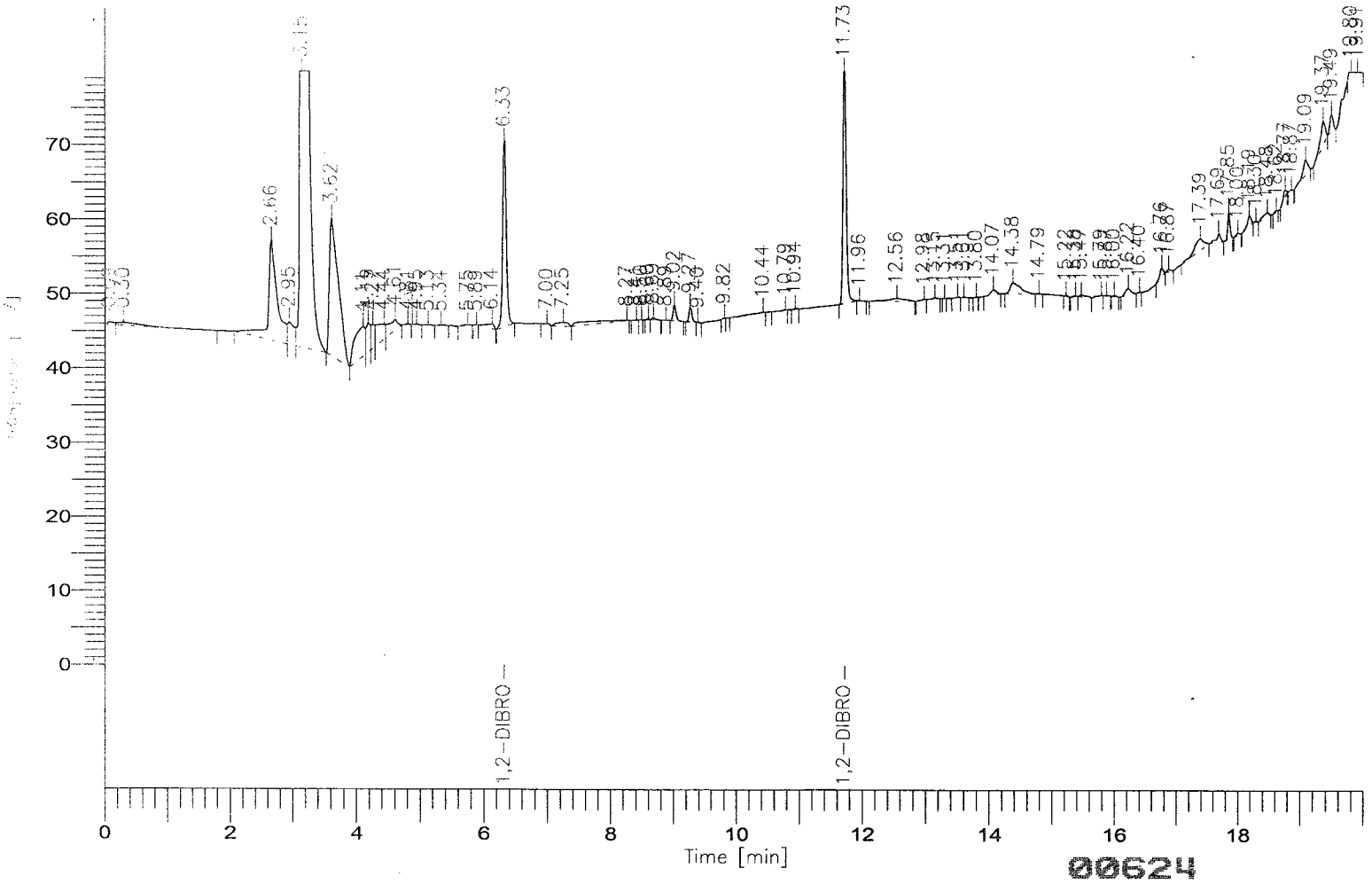
Software Version: 4.1<2F12>
Sample Name : 1205560-BS1 Time : 5/4/12 15:58
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 10:59
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY029.RAW
Result File : C:\TC4\158\MAY2012\AMAY029.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY029.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00624

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

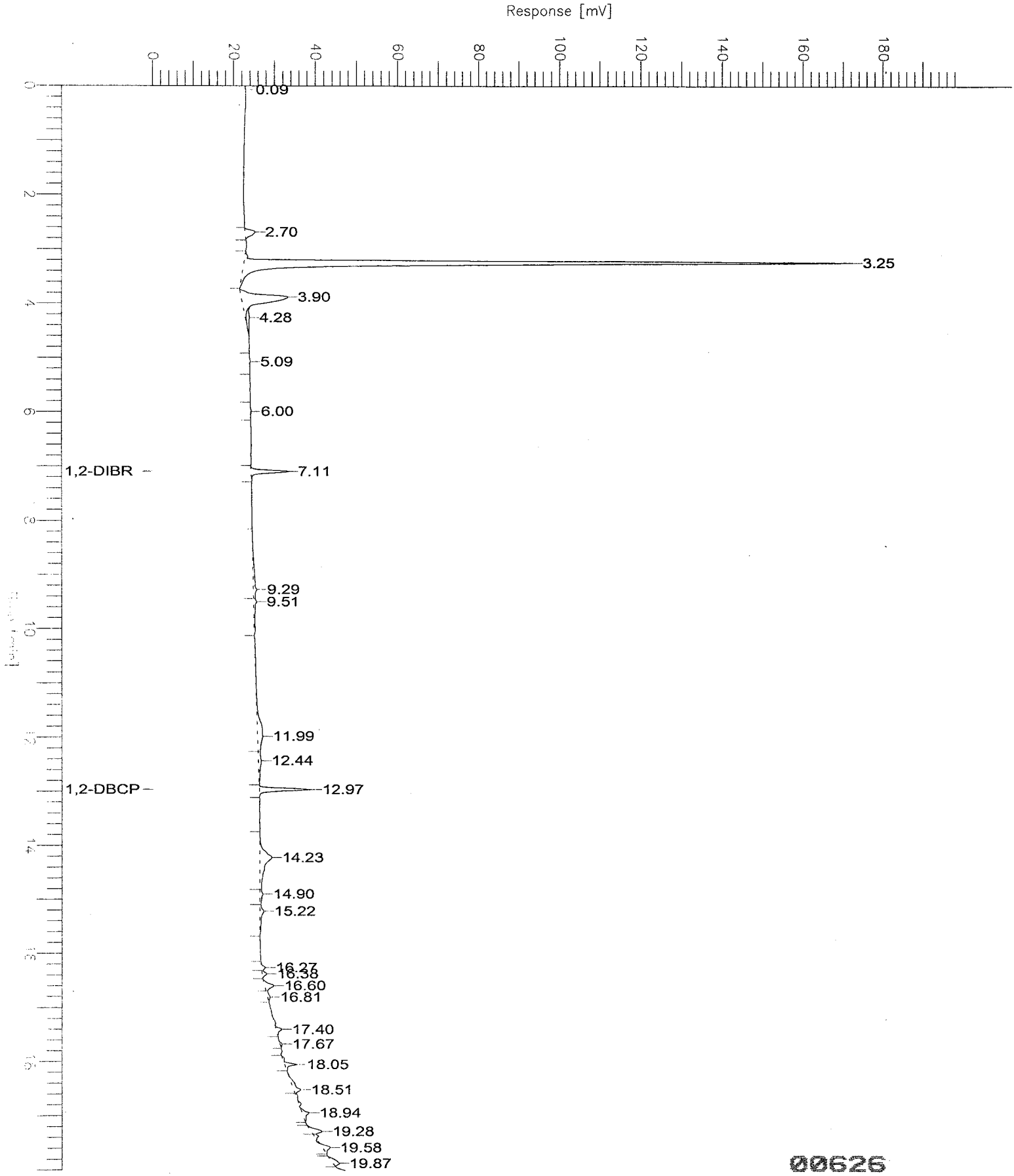
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.33 | 1,2-DIBROMOETHANE | 0.0046 | 25934.46 | 99906.50 | 35 | 2 | 0.26308 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0041 | 34594.95 | 122669.00 | 35 | 2 | 0.23502 |
| | | | 60529.41 | 222575.50 | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY029.TX0

# Chromatogram

Sample Name : 1205560-BS1
FileName : C:\TC4\158\MAY2012\BMAY029.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 10:59
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00626

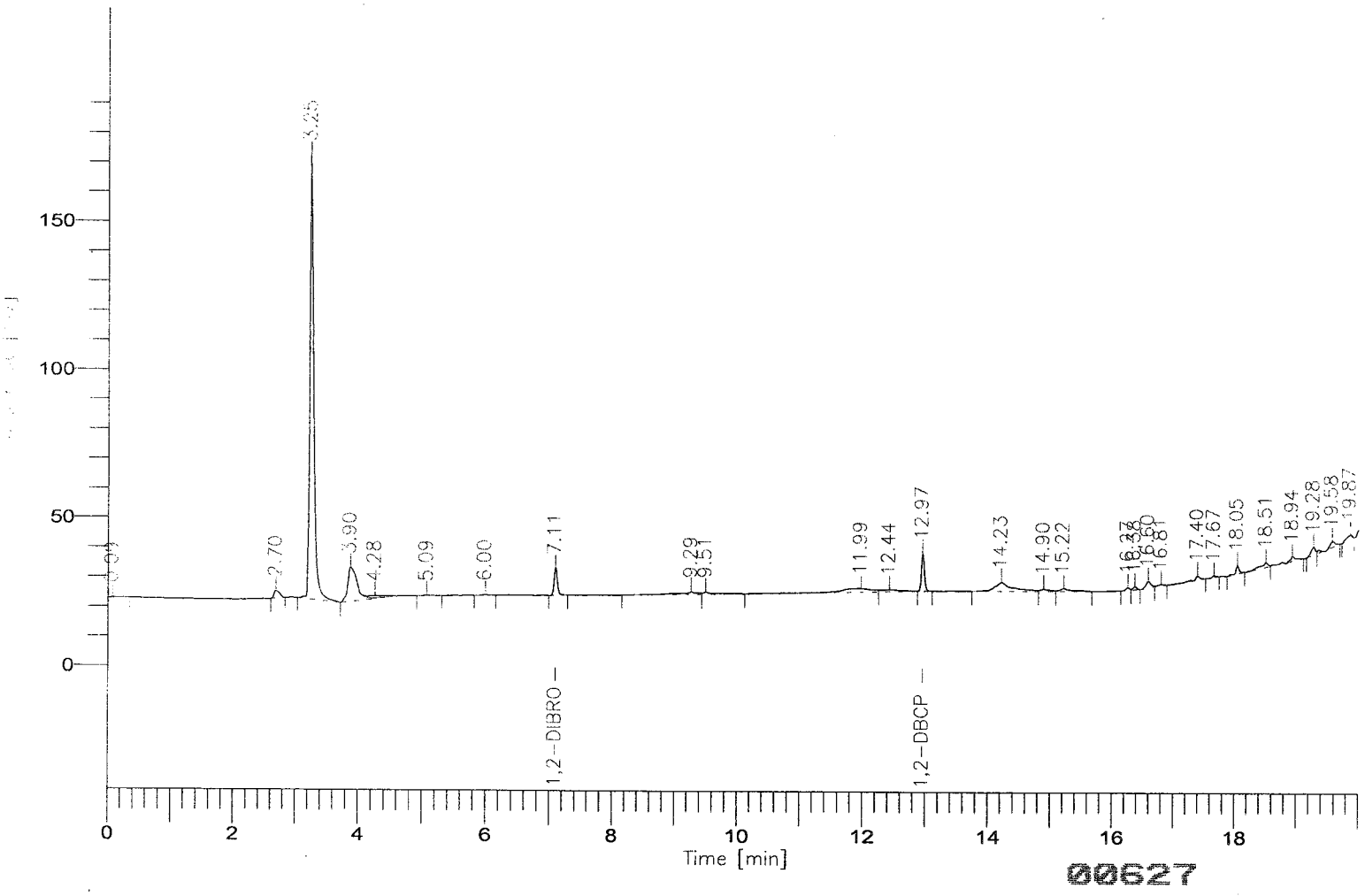
Software Version: 4.1<2F12>
Sample Name : 1205560-BS1 Time : 5/4/12 15:58
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 10:59
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY029.RAW
Result File : C:\TC4\158\MAY2012\BMAY029.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY029.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00627

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.11 | 1,2-DIBROMOETHANE (2 | 0.0048 | 9402.77 | 33894.00 | 35 | 2 | 0.27420 |
| 12.97 | 1,2-DBCP (2C) | 0.0050 | 12819.49 | 42210.56 | 35 | 2 | 0.28803 |
| | | | 22222.26 | 76104.56 | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY029.TX0

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water

SDG: KNM040512
Project: KNM
Laboratory ID: 1204486-BSD1
Preparation: Method-Specific Extraction
Initial/Final: 35 mL / 2 mL

QC Batch: 1204486
Sequence: 2D17019

| Analyte | Spike Added ug/L | LCSD Conc. | LCSD % Rec. # | % RPD # | QC Limits RPD | QC Limits Rec. | Units |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.331 | 104 | 3 | 20 | 60 - 140 | ug/L |

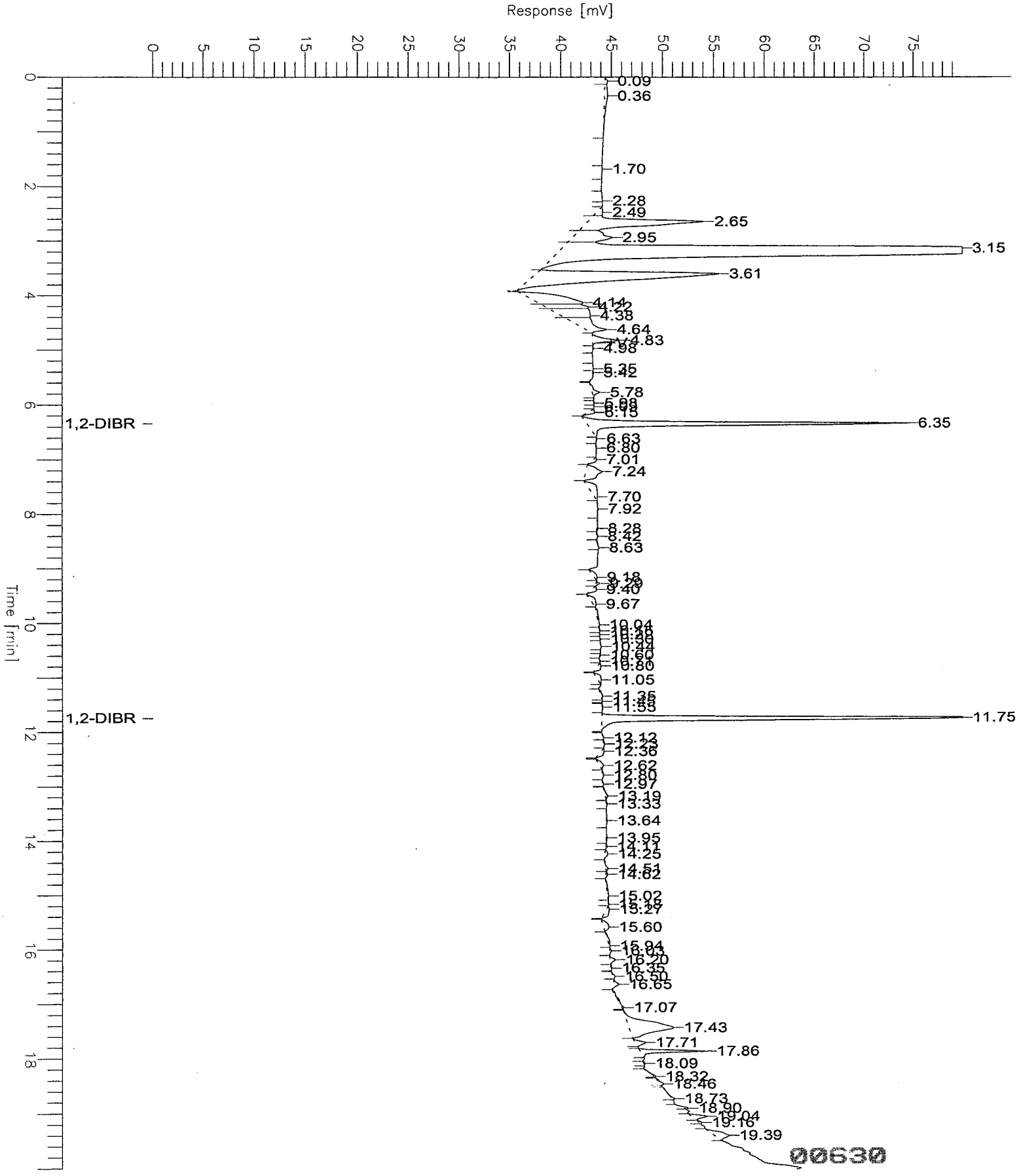
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : 1204486-BSD1
FileName : C:\TC4\158\APRIL2~1\AAPR300.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 17:26
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



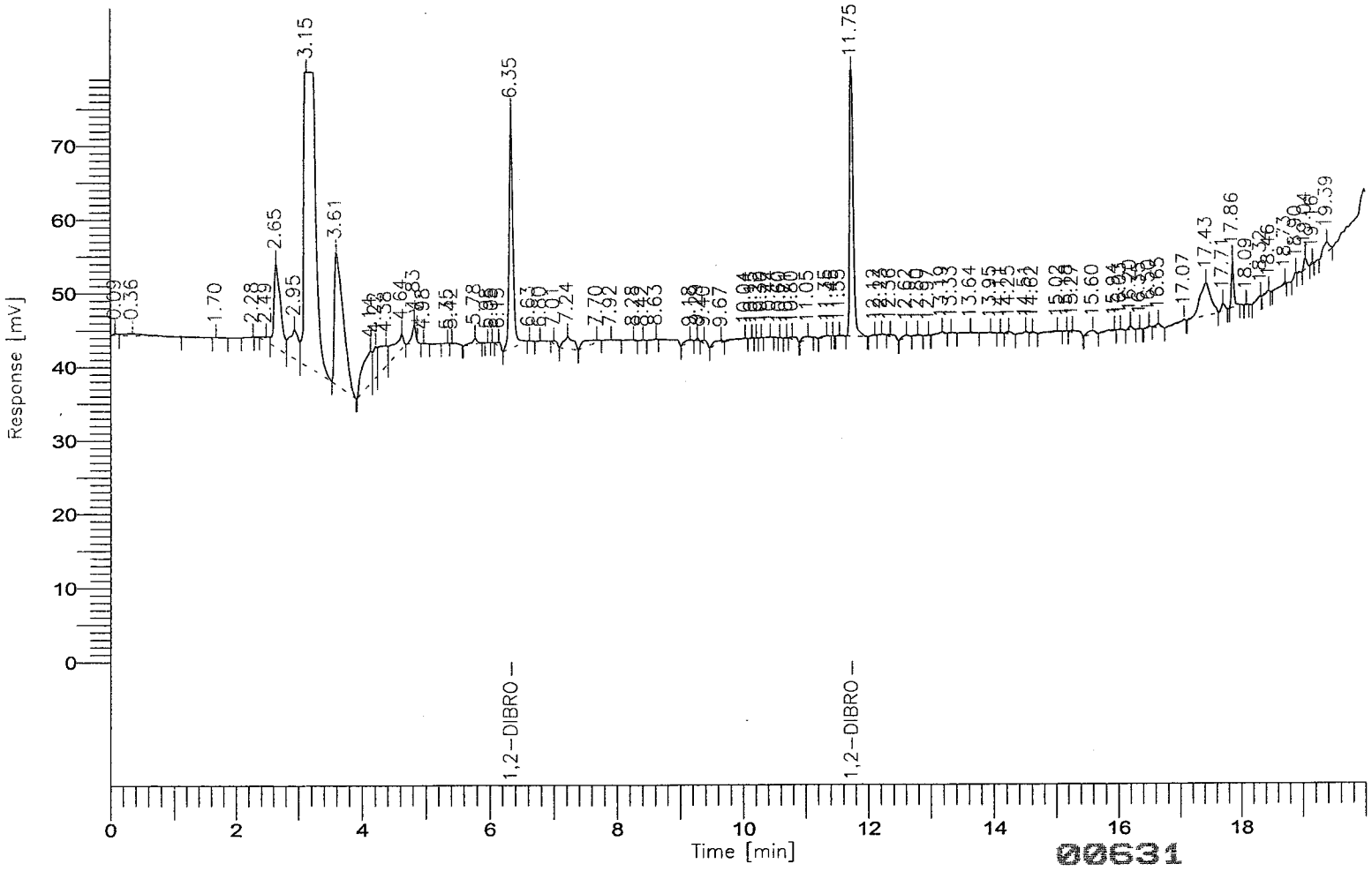
Software Version: 4.1<2F12>
Sample Name : 1204486-BSD1 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 17:26
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR300.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR300.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR300.I
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

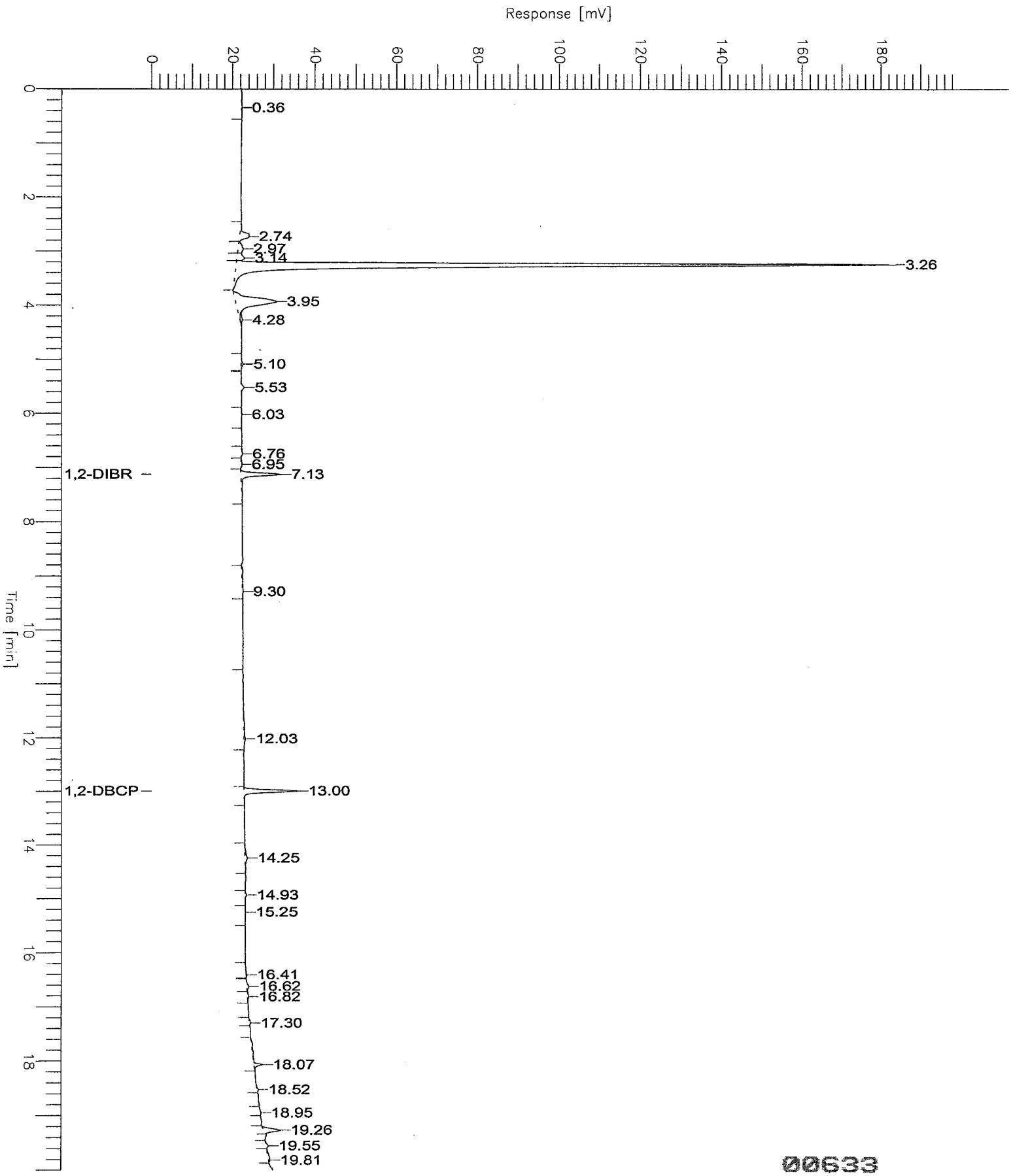
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.35 | 1,2-DIBROMOETHANE | 0.0058 | 31998.56 | 129449.00 | 35 | 2 | 0.33235 |
| 11.75 | 1,2-DIBROMO3CHLOROPR | 0.0054 | 45079.09 | 161224.00 | 35 | 2 | 0.31076 |
| | | | 77077.65 | 290673.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR300.TX0

# Chromatogram

Sample Name : 1204486-BSD1
FileName : C:\TC4\158\APRIL2~1\BAPR300.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/17/12 08:38
Time of Injection: 4/16/12 17:26
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00633

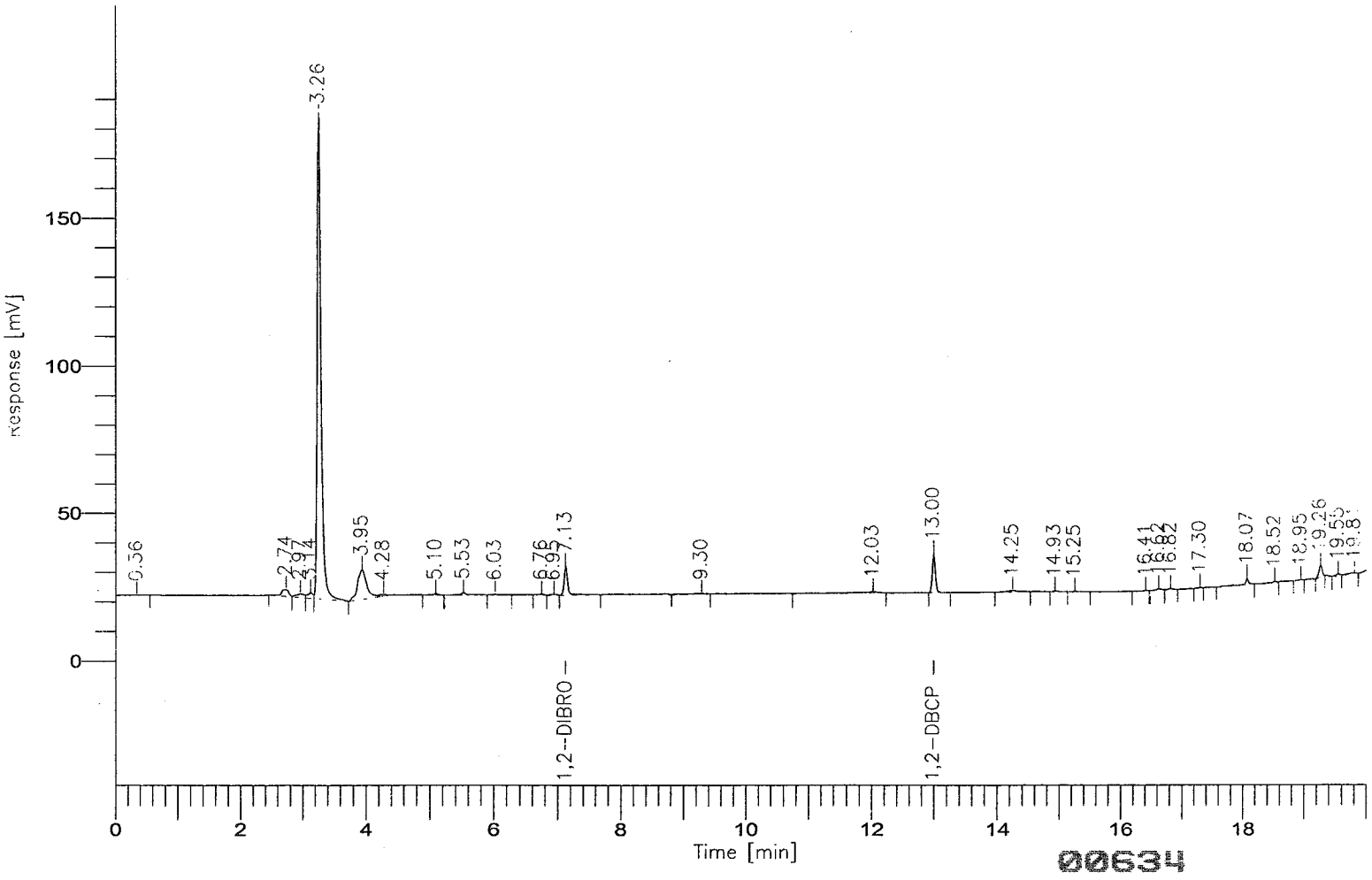
Software Version: 4.1<2F12>
Sample Name : 1204486-BSD1 Time : 4/17/12 08:38
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 17:26
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR300.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR300.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR300.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00634

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.13 | 1,2-DIBROMOETHANE (2 | 0.0051 | 9908.86 | 40174.00 | 35 | 2 | 0.28948 |
| 13.00 | 1,2-DBCP (2C) | 0.0052 | 13212.85 | 43884.50 | 35 | 2 | 0.29656 |
| | | | 23121.71 | 84058.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR300.TX0

# LCS / LCS DUPLICATE RECOVERY

## USEPA-8011

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM040512

Client: TechLaw
Project: KNM

Matrix: Water
Laboratory ID: 1205087-BSD1

Preparation: Method-Specific Extraction

Initial/Final: 35 mL / 2 mL

QC Batch: 1205087
Sequence: 2D25008

| Analyte | Spike Added ug/L | LCSD Conc. | LCSD % Rec. # | % RPD # | QC Limits RPD | QC Limits Rec. | Units |
|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 0.320 | 0.349 | 109 | 3 | 20 | 60 - 140 | ug/L |

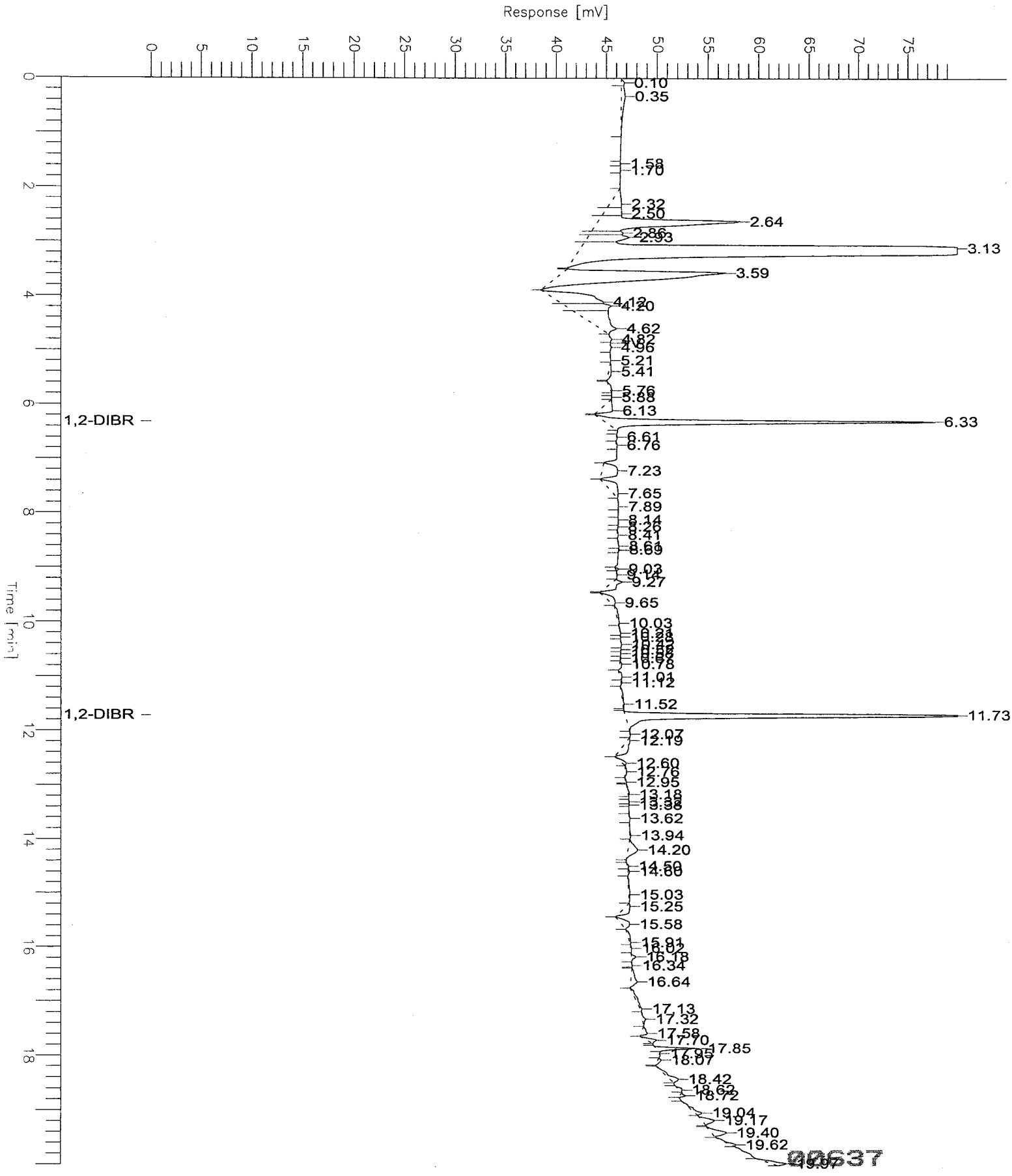
# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

# Chromatogram

Sample Name : 1205087-BSD1
FileName : C:\TC4\158\APRIL2~1\AAPR402.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 17:17
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



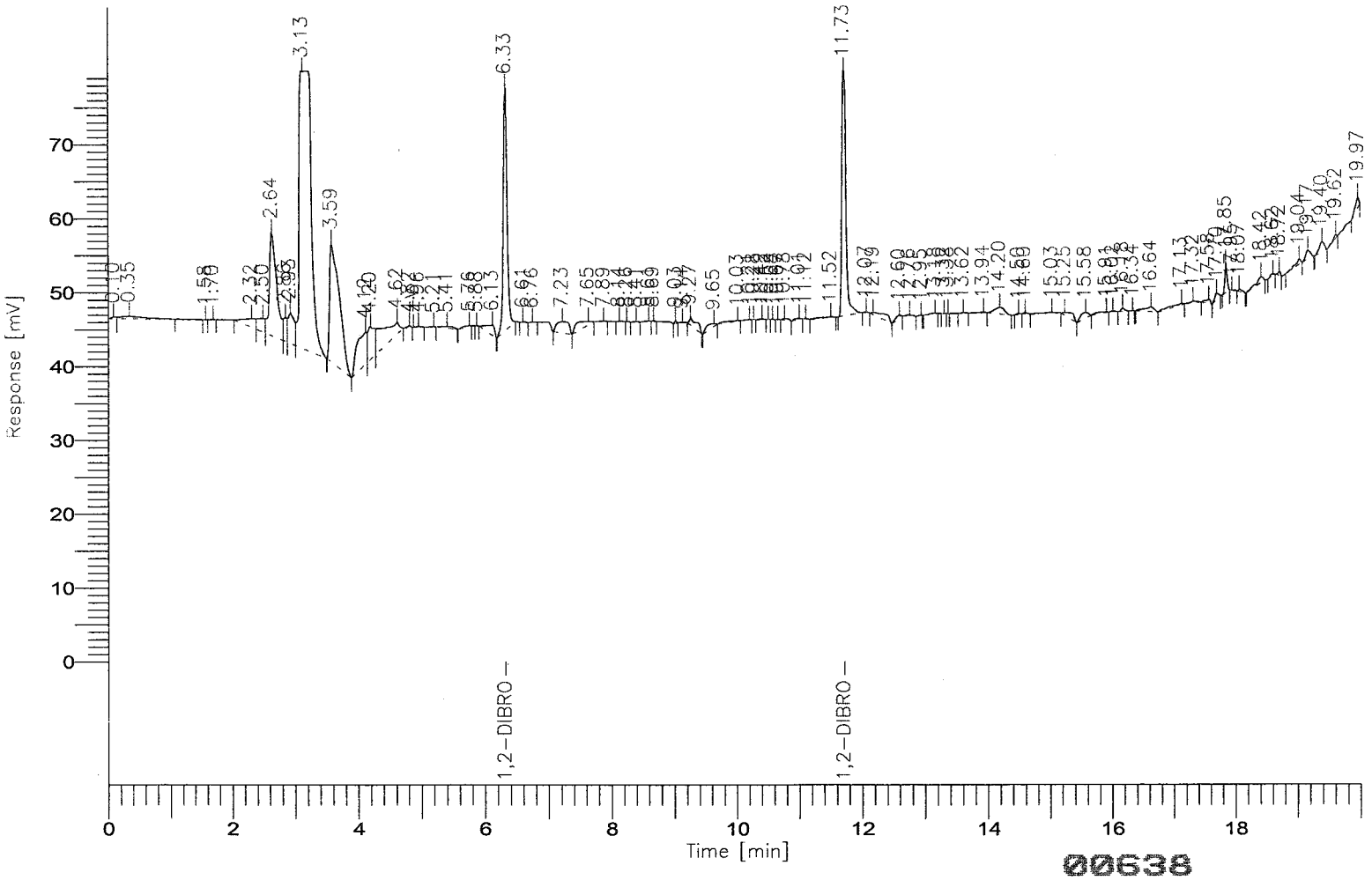
Software Version: 4.1<2F12>
Sample Name : 1205087-BSD1 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 17:17
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR402.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR402.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR402.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00638

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

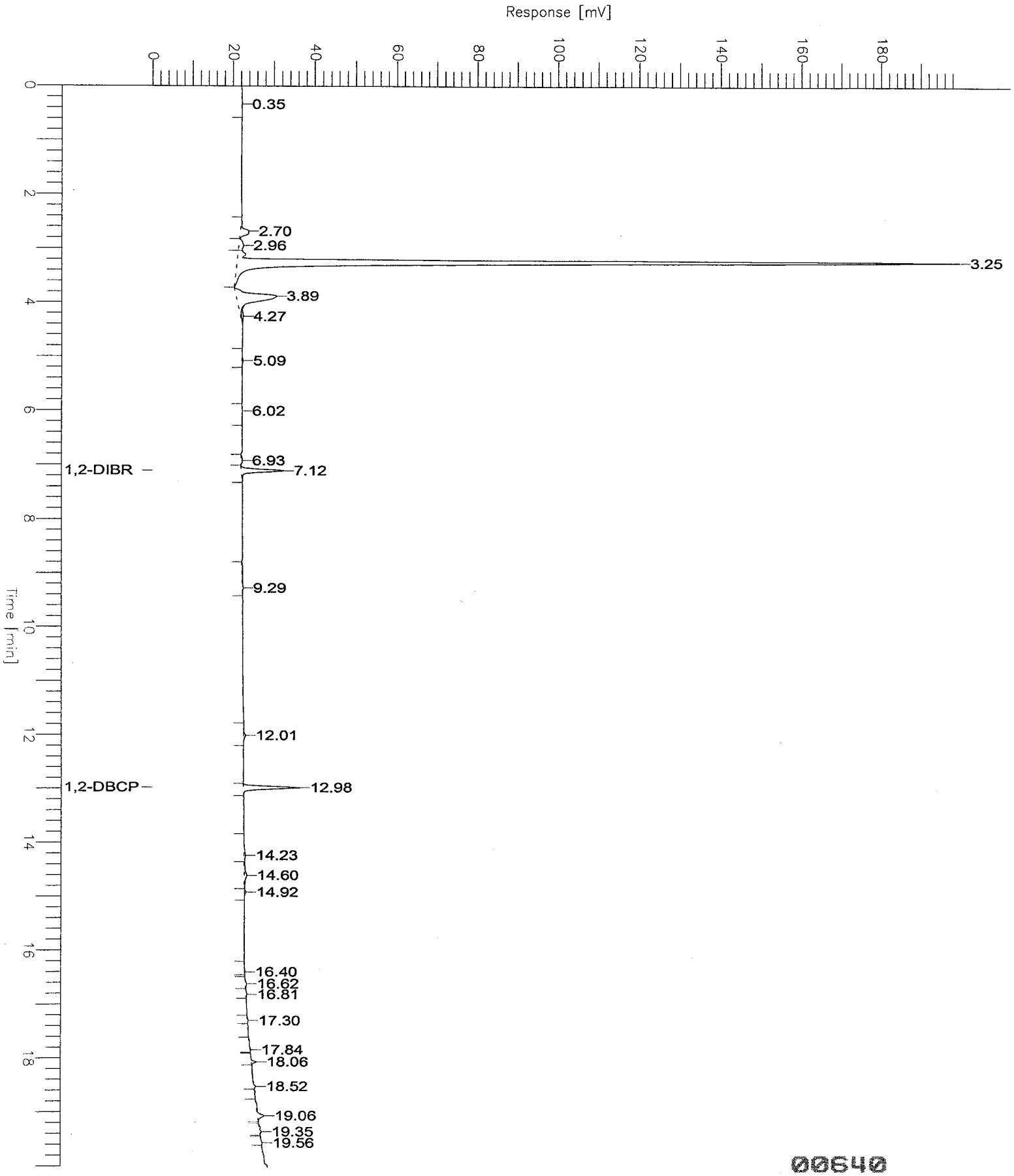
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.33 | 1,2-DIBROMOETHANE | 0.0061 | 33647.06 | 134143.00 | 35 | 2 | 0.35118 |
| 11.73 | 1,2-DIBROMO3CHLOROPR | 0.0059 | 48714.36 | 181301.50 | 35 | 2 | 0.33702 |
| | | | 82361.43 | 315444.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR402.TX0

# Chromatogram

Sample Name : 1205087-BSD1
FileName : C:\TC4\158\APRIL2~1\BAPR402.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: Page 1 of 1
Date : 4/25/12 08:12
Time of Injection: 4/24/12 17:17
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00640

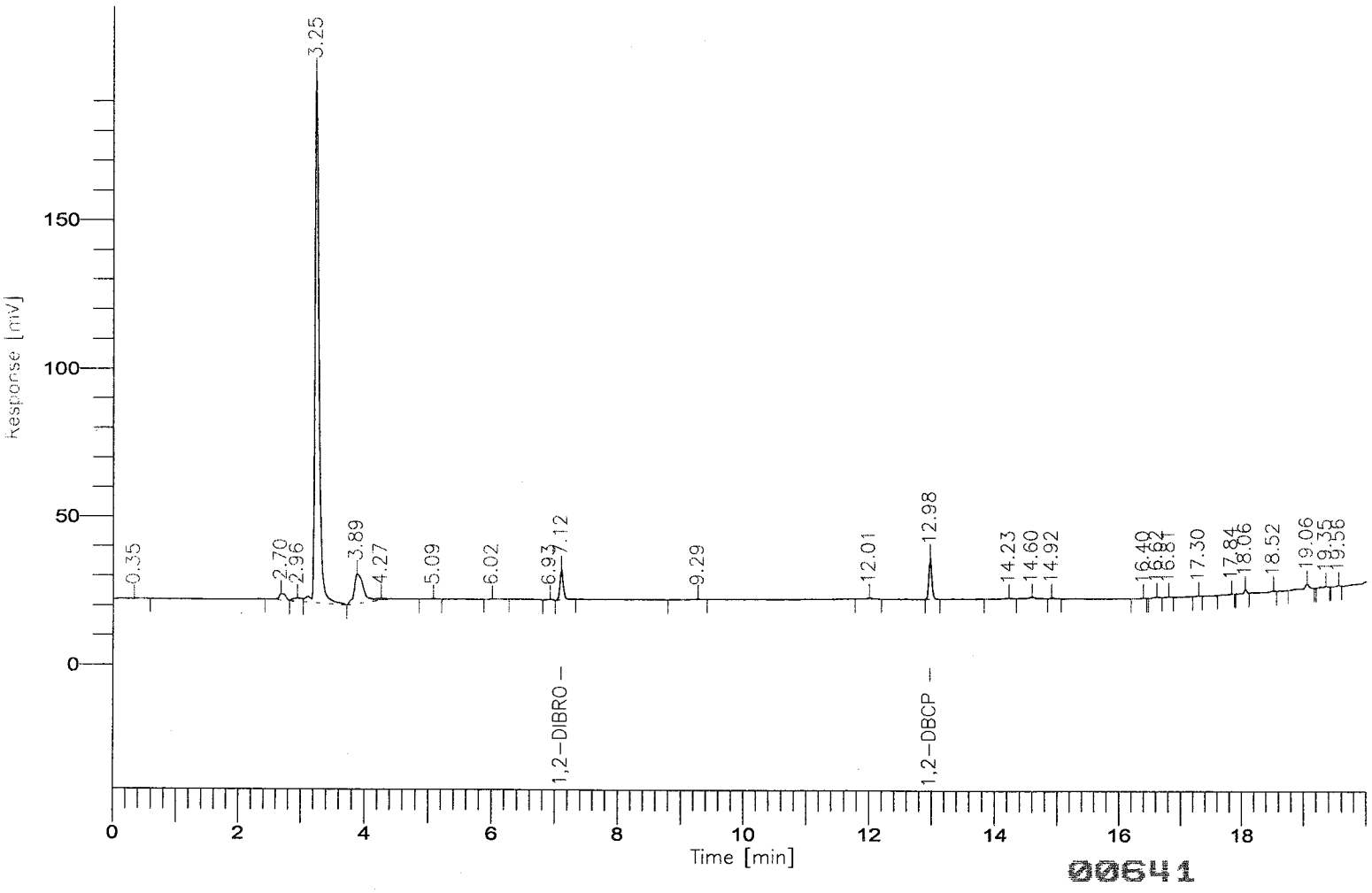
Software Version: 4.1<2F12>
Sample Name : 1205087-BSD1 Time : 4/25/12 08:12
Sample Number: Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 17:17
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR402.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR402.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR402.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00641

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 7.12 | 1,2-DIBROMOETHANE (2 | 0.0053 | 10374.64 | 37889.50 | 35 | 2 | 0.30355 |
| 12.98 | 1,2-DBCP (2C) | 0.0054 | 13804.12 | 45215.00 | 35 | 2 | 0.30939 |
| | | | 24178.76 | 83104.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR402.TX0

*TriMatrix Laboratories, Inc.*

# PREPARATION BATCH 1204486



Printed: 4/17/2012 10:00:17AM

Semivolatiles GC, Water, Method-Specific Extraction

(No Surrogate)

Batch Comments: (none)

| Standard | Description | Solvent | LotNum |
|---|---|---|---|
| 2040528 | 8011 2.24 ug/mL | MeOH/113905 | na |

| Work Order | Analysis | Work Order | Analysis | Work Order | Analysis |
|---|---|---|---|---|---|
| 1204091 | 8011 EDB/DBCP | 1204205 | 8011 EDB/DBCP | | |

**Balance ID:** _____ **pH Meter:** _____

| Lab Number | Contain | Prepared | By | Initial (mL) | Final (mL) | uL Surrogate | Source ID | Spike ID | uL Spike | Client / QC Type | Extraction Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1204486-BLK1 | | Apr-16-12 09:29 | BJH | 35 | 2 | | | | | BLANK | |
| 1204486-BS1 | | Apr-16-12 09:29 | BJH | 35 | 2 | | | 2040528 | 5 | LCS | |
| 1204486-BSD1 | | Apr-16-12 09:29 | BJH | 35 | 2 | | | 2040528 | 5 | LCS DUP | |
| 1204091-01 | A | Apr-16-12 09:29 | BJH | 35 | 2 | | | | | TechLaw | EDB only |
| 1204205-01 | A | Apr-16-12 09:29 | BJH | 34.8 | 2 | | | | | TechLaw | EDB only |
| 1204205-02 | A | Apr-16-12 09:29 | BJH | 34.5 | 2 | | | | | TechLaw | EDB only |

| Comments: | Analyst Initials: |
|---|---|
| | |

bch_TriMatrix.rpt

*TriMatrix Laboratories, Inc.*

# PREPARATION BATCH 1204486



Printed: 4/16/2012 7:23:30AM

Semivolatiles GC, Water, Method-Specific Extraction

(No Surrogate)

Batch Comments: (none)

EDB/DBCP

| Standard | Description | Solvent | LotNum |
|---|---|---|---|

| Work Order | Analysis | Work Order | Analysis | Work Order | Analysis |
|---|---|---|---|---|---|
| 1204091 | 8011 EDB/DBCP | 1204205 | 8011 EDB/DBCP | | |

**Balance ID:** _____ **pH Meter:** _____

| *Lab Number* | *Contain* | *Prepared* | *By* | *Initial (mL)* | *Final (mL)* | *uL Surrogate* | *Source ID* | *Spike ID* | *uL Spike* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1204486-BLK1 | | Apr-16-12 09:29 | BJH | 35 | 2 | | | | | BLANK | |
| 1204486-BS1 | | Apr-16-12 09:29 | BJH | 35 | 2 | | | 2040528 | 5.0 | LCS | |
| 1204486-BSD1 | | Apr-16-12 09:29 | BJH | 35 | 2 | | | ↓ | ↓ | LCS DUP | |
| 1204091-01 | A | Apr-16-12 09:29 | BJH | 35 | 2 | | | | | TechLaw | EDB only |
| 1204205-01 | A | Apr-16-12 09:29 | BJH | ~~35~~ 34.8 | 2 | 60.7 | -25.9 | | | TechLaw | EDB only |
| 1204205-02 | A | Apr-16-12 09:29 | BJH | ~~35~~ 34.5 | 2 | 60.3 | -25.8 | | | TechLaw | EDB only |

| Comments: | Analyst Initials: |
|---|---|
| | |

Semivolatiles GC, Water, Method-Specific Extraction

(No Surrogate)

Batch Comments: (none)

| Standard | Description | Solvent | LotNum |
|---|---|---|---|
| 2040528 | 8011 2.24 ug/mL | MeOH/113905 | na |

| Work Order | Analysis | Work Order | Analysis | Work Order | Analysis |
|---|---|---|---|---|---|
| 1204329 | 8011 EDB/DBCP | | | | |

**Balance ID:** _____ **pH Meter:** _____

| *Lab Number* | *Contain* | *Prepared* | *By* | *Initial (mL)* | *Final (mL)* | *uL Surrogate* | *Source ID* | *Spike ID* | *uL Spike* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1205087-BLK1 | | Apr-24-12 13:36 | BJH | 35 | 2 | | | | | BLANK | |
| 1205087-BS1 | | Apr-24-12 13:36 | BJH | 35 | 2 | | | 2040528 | 5 | LCS | |
| 1205087-BSD1 | | Apr-24-12 13:36 | BJH | 35 | 2 | | | 2040528 | 5 | LCS DUP | |
| 1204329-01 | A | Apr-24-12 13:36 | BJH | 34.5 | 2 | | | | | TechLaw | EDB only |

| Comments: | Analyst Initials: |
|---|---|
| | |

*TriMatrix Laboratories, Inc.*

**PREPARATION BATCH** 1205087 Page 1 of 1

Printed: 4/24/2012 1:36:51PM

Semivolatiles GC, Water, Method-Specific Extraction

(No Surrogate)

Batch Comments: (none)

| Standard | Description | Solvent | LotNum |
|---|---|---|---|

| Work Order | Analysis | Work Order | Analysis | Work Order | Analysis |
|---|---|---|---|---|---|
| 1204329 | 8011 EDB/DBCP | | | | |

**Balance ID:** _____ **pH Meter:** _____

| *Lab Number* | *Contain* | *Prepared* | *By* | *Initial (mL)* | *Final (mL)* | *uL Surrogate* | *Source ID* | *Spike ID* | *uL Spike* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1205087-BLK1 | | Apr-24-12 13:36 | BJH | 35 | 2 | | | | | BLANK | |
| 1205087-BS1 | | Apr-24-12 13:36 | BJH | 35 | 2 | | | 2040528 | 5.0 | LCS | |
| 1205087-BSD1 | | Apr-24-12 13:36 | BJH | 35 | 2 | | | ↓ | ↓ | LCS DUP | |
| 1204329-01 | A | Apr-24-12 13:36 | BJH | ~~35~~ 34.5 | 2 | 60.2 - 25.7 | | | | TechLaw | EDB only |

| Comments: | Analyst Initials: |
|---|---|
| | |

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*TriMatrix Laboratories, Inc.*

# PREPARATION BATCH 1205560



Printed: 5/7/2012 8:41:39AM

Semivolatiles GC, Water, Method-Specific Extraction

(No Surrogate)

Batch Comments: (none)

| Standard | Description | Solvent | LotNum |
|---|---|---|---|
| 2040528 | 8011 2.24 ug/mL | MeOH/113905 | na |

| Work Order | Analysis | Work Order | Analysis | Work Order | Analysis |
|---|---|---|---|---|---|
| 1204454 | 8011 EDB/DBCP | 1205072 | 8011 EDB/DBCP | 1205073 | 8011 EDB/DBCP |
| 1205085 | 8011 EDB/DBCP | | | | |

**Balance ID:** _____ **pH Meter:** _____

| *Lab Number* | *Contain* | *Prepared* | *By* | *Initial (mL)* | *Final (mL)* | *uL Surrogate* | *Source ID* | *Spike ID* | *uL Spike* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1205560-BLK1 | | May-04-12 08:27 | BJH | 35 | 2 | | | | | BLANK | |
| 1205560-BS1 | | May-04-12 08:27 | BJH | 35 | 2 | | | 2040528 | 5 | LCS | |
| 1205560-MS1 | | May-04-12 08:27 | BJH | 34.9 | 2 | | 1205085-02 | 2040528 | 5 | MATRIX SPIKE | |
| 1205560-MSD1 | | May-04-12 08:27 | BJH | 35 | 2 | | 1205085-02 | 2040528 | 5 | MATRIX SPIKE DUP | |
| 1204454-01 | A | May-04-12 08:27 | BJH | 34.6 | 2 | | | | | TechLaw | EDB only |
| 1204454-02 | A | May-04-12 08:27 | BJH | 34.5 | 2 | | | | | TechLaw | EDB only |
| 1205072-01 | A | May-04-12 08:27 | BJH | 34.4 | 2 | | | | | TechLaw | EDB only |
| 1205073-01 | A | May-04-12 08:27 | BJH | 34.7 | 2 | | | | | TechLaw | EDB only |
| 1205085-01 | A | May-04-12 08:27 | BJH | 34.7 | 2 | | | | | TechLaw | EDB only |
| 1205085-02 | A | May-04-12 08:27 | BJH | 34.6 | 2 | | | | | TechLaw | EDB only |

| Comments: | Analyst Initials: |
|---|---|
| | |

*TriMatrix Laboratories, Inc.*

# PREPARATION BATCH 1205560



Printed: 5/4/2012 8:32:39AM

Semivolatiles GC, Water, Method-Specific Extraction

(No Surrogate)

Batch Comments: (none)

| Standard | Description | Solvent | LotNum |
|---|---|---|---|

| Work Order | Analysis | Work Order | Analysis | Work Order | Analysis |
|---|---|---|---|---|---|
| 1204454 | 8011 EDB/DBCP | 1205072 | 8011 EDB/DBCP | 1205073 | 8011 EDB/DBCP |
| 1205085 | 8011 EDB/DBCP | | | | |

**Balance ID:** _____ **pH Meter:** _____

| *Lab Number* | *Contain* | *Prepared* | *By* | *Initial (mL)* | *Final (mL)* | *uL Surrogate* | *Source ID* | *Spike ID* | *uL Spike* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1205560-BLK1 | | May-04-12 08:27 | BJH | 35 | 2 | | | | | BLANK | |
| 1205560-BS1 | | May-04-12 08:27 | BJH | 35 | 2 | | | 1204572E | 5.0 | LCS | |
| 1205560-MS1 | | May-04-12 08:27 | BJH | ~~35~~ 34.9 | 2 | 60.4-25.5 | 1205085-02 | ↓ | ↓ | MATRIX SPIKE | |
| 1205560-MSD1 | | May-04-12 08:27 | BJH | 35 | 2 | 60.5-25.5 | 1205085-02 | | | MATRIX SPIKE DUP | |
| 1204454-01 | A | May-04-12 08:27 | BJH | ~~35~~ 34.6 | 2 | 60.6-26.0 | | | | TechLaw | EDB only |
| 1204454-02 | A | May-04-12 08:27 | BJH | ~~35~~ 34.5 | 2 | 60.5-26.0 | | | | TechLaw | EDB only |
| 1205072-01 | A | May-04-12 08:27 | BJH | ~~35~~ 34.4 | 2 | 60.3-25.9 | | | | TechLaw | EDB only |
| 1205073-01 | A | May-04-12 08:27 | BJH | ~~35~~ 34.7 | 2 | 60.5-25.8 | | | | TechLaw | EDB only |
| 1205085-01 | A | May-04-12 08:27 | BJH | ~~35~~ 34.7 | 2 | 60.3-25.6 | | | | TechLaw | EDB only |
| 1205085-02 | A | May-04-12 08:27 | BJH | ~~35~~ 34.6 | 2 | 60.1-25.5 | | | | TechLaw | EDB only |

| Comments: | Analyst Initials: |
|---|---|
| | |

Semivolatiles GC, Water, Apr-16-12

Instrument= 158, Calibration = 2D17008

*Sequence Analyses:*
8011 EDB/DBCP

| *Lab Number* | *Analysis* | *Contain* | *STD ID* | *ISTD ID* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|
| 2D17019-CAL1 | QC | | 2040791 | | CAL STANDARD | |
| 2D17019-CAL2 | QC | | 2040792 | | CAL STANDARD | |
| 2D17019-CAL3 | QC | | 2040793 | | CAL STANDARD | |
| 2D17019-CAL4 | QC | | 2040794 | | CAL STANDARD | |
| 2D17019-CAL5 | QC | | 2040795 | | CAL STANDARD | |
| 2D17019-CAL6 | QC | | 2040796 | | CAL STANDARD | |
| 2D17019-SCV1 | QC | | 2040798 | | SECONDARY CAL CHECK | |
| 1204486-BLK1 | QC | | | | BLANK | |
| 1204486-BS1 | QC | | | | LCS | |
| 1204486-BSD1 | QC | | | | LCS DUP | |
| 1204091-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1204205-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1204205-02 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 2D17019-CCV1 | QC | | 2040797 | | CALIBRATION CHECK | |

| Comments: | Analyst Initials: |
|---|---|

Semivolatiles GC, Water, Apr-24-12

Instrument = 158, Calibration = 2D17008

*Sequence Analyses:*
8011 EDB/DBCP

| *Lab Number* | *Analysis* | *Contain* | *STD ID* | *ISTD ID* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|
| 2D25008-CCV1 | QC | | 2040797 | | CALIBRATION CHECK | |
| 1205087-BLK1 | QC | | | | BLANK | |
| 1205087-BS1 | QC | | | | LCS | |
| 1205087-BSD1 | QC | | | | LCS DUP | |
| 1204329-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 2D25008-CCV2 | QC | | 2040797 | | CALIBRATION CHECK | |

| Comments: | Analyst Initials: |
|---|---|

Semivolatiles GC, Water, May-04-12

Instrument = 158, Calibration = 2D17008

*Sequence Analyses:*
8011 EDB/DBCP

| *Lab Number* | *Analysis* | *Contain* | *STD ID* | *ISTD ID* | *Client / QC Type* | *Extraction Comments* |
|---|---|---|---|---|---|---|
| 2E07013-CCV1 | QC | | 2040797 | | CALIBRATION CHECK | |
| 1205560-BLK1 | QC | | | | BLANK | |
| 1205560-BS1 | QC | | | | LCS | |
| 1204454-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1204454-02 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1205072-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1205073-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1205085-01 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1205085-02 | 8011 EDB/DBCP | A 01 | | | TechLaw | EDB only |
| 1205560-MS1 | QC | | | | MATRIX SPIKE | |
| 1205560-MSD1 | QC | | | | MATRIX SPIKE DUP | |
| 2E07013-CCV2 | QC | | 2040797 | | CALIBRATION CHECK | |

| Comments: | Analyst Initials: |
|---|---|

TRIMATRIX LABORATORIES

# RETENTION TIME WINDOWS

| Instrument Information | | Column Temperature Program | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Instrument Number: | 158 | Hold for: | 2 min | Ramp to: | 155 C | deg/min: | 8 | Initial Temp: | 40 C |
| Detector: | ECD | Hold for: | 0 min | Ramp to: | 300 C | deg/min: | 40 | | |
| Method/Column Reference: | 8011 | Hold for: | - | Ramp to: | - | deg/min: | - | | |
| | | Hold for: | - | Ramp to: | - | deg/min: | - | | |
| | | Injection Port Temperature | | | | | | 250 | |
| Column 1 Element #: | 1050423 | Column 2 Element #: | | 1050422 | | | | | |

| | Std 1 RT | Std 2 RT | Std 3 RT | Standard Deviation (min.) | RT Window Std. Dev. x 3 (min.) | | Absolute Window (sec.) | Compound Name |
|---|---|---|---|---|---|---|---|---|
| Date of Injection | 10/14/11 | 10/21/11 | 10/26/11 | | | | | |
| Time of Injection | 2:52 PM | 2:29 PM | 1:24 AM | | | | | |
| Compound / File Name | AB008110 | AB008165 | AB008239 | | | | | |
| ECD Detector | - | - | - | - | - | - | - | ECD Detector |
| 1,2-Dibromoethane (CLP1) | 6.64 | 6.67 | 6.65 | 0.015 | +/- | 0.046 | 2.75 | 1,2-Dibromoethane (CLP1) |
| bromo-3-chloropropane (CLP1) | 12.14 | 12.16 | 12.13 | 0.015 | +/- | 0.046 | 2.75 | 1,2-Dibromo-3-chloropropane (C |
| - | | | | | +/- | | | - |
| 1,2-Dibromoethane (CLP2) | 7.28 | 7.33 | 7.30 | 0.025 | +/- | 0.075 | 4.53 | 1,2-Dibromoethane (CLP2) |
| bromo-3-chloropropane (CLP2) | 13.20 | 13.24 | 13.22 | 0.020 | +/- | 0.060 | 3.60 | 1,2-Dibromo-3-chloropropane (C |

TRIMATRIX LABORATORIES

# DAILY RETENTION TIME WINDOWS

| | | | | |
|---|---|---|---|---|
| **Instrument #:** | 158 | **Date:** | 4/16/12 | |
| **Column 1 ID:** | 1050423 | **File Name:** | ABAPR297 | |
| **Column 2 ID:** | 1050422 | | | |

| COMPOUND | RETENTION TIME | TODAY'S RETENTION TIME WINDOW | | |
|---|---|---|---|---|
| **ECD Detector** | | | | |
| 1,2-Dibromoethane (CLP1) | 6.35 | 6.30 | to | 6.40 |
| bromo-3-chloropropane (CLP1) | 11.74 | 11.69 | to | 11.79 |
| - | | | to | |
| 1,2-Dibromoethane (CLP2) | 7.13 | 7.05 | to | 7.21 |
| bromo-3-chloropropane (CLP2) | 13 | 12.94 | to | 13.06 |

TRIMATRIX LABORATORIES

# RETENTION TIME WINDOWS

| Instrument Information | | Column Temperature Program | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Instrument Number: | 158 | Hold for: | 2 min | Ramp to: | 155 C | deg/min: | Initial Temp: | 40 C |
| Detector: | ECD | Hold for: | 0 min | Ramp to: | 300 C | deg/min: | 8 | |
| | | Hold for: | - | Ramp to: | - | deg/min: | 40 | |
| Method/Column Reference: | 8011 | Hold for: | - | Ramp to: | - | deg/min: | - | |
| | | | | | | Injection Port Temperature | | 250 |
| Column 1 Element #: | 1050423 | Column 2 Element #: | | 1050422 | | | | |

| | Std 1 RT | Std 2 RT | Std 3 RT | Standard Deviation (min.) | RT Window Std. Dev. x 3 (min.) | | Absolute Window (sec.) | Compound Name |
|---|---|---|---|---|---|---|---|---|
| Date of Injection | 10/14/11 | 10/21/11 | 10/26/11 | | | | | |
| Time of Injection | 2:52 PM | 2:29 PM | 1:24 AM | | | | | |
| Compound / File Name | AB008110 | AB008165 | AB008239 | | | | | |
| ECD Detector | - | - | - | - | - | - | - | ECD Detector |
| 1,2-Dibromoethane (CLP1) | 6.64 | 6.67 | 6.65 | 0.015 | +/- | 0.046 | 2.75 | 1,2-Dibromoethane (CLP1) |
| bromo-3-chloropropane (CLP1) | 12.14 | 12.16 | 12.13 | 0.015 | +/- | 0.046 | 2.75 | 1,2-Dibromo-3-chloropropane (CL |
| - | | | | | +/- | | | - |
| 1,2-Dibromoethane (CLP2) | 7.28 | 7.33 | 7.30 | 0.025 | +/- | 0.075 | 4.53 | 1,2-Dibromoethane (CLP2) |
| bromo-3-chloropropane (CLP2) | 13.20 | 13.24 | 13.22 | 0.020 | +/- | 0.060 | 3.60 | 1,2-Dibromo-3-chloropropane (CL |


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TRIMATRIX LABORATORIES

# DAILY RETENTION TIME WINDOWS

| | | | |
|---|---|---|---|
| **Instrument #:** | 158 | **Date:** | 4/24/12 |
| **Column 1 ID:** | 1050423 | **File Name:** | ABAPR399 |
| **Column 2 ID:** | 1050422 | | |

| COMPOUND | RETENTION TIME | TODAY'S RETENTION TIME WINDOW | | |
|---|---|---|---|---|
| **ECD Detector** | | | | |
| 1,2-Dibromoethane (CLP1) | 6.34 | 6.29 | to | 6.39 |
| ibromo-3-chloropropane (CLP1) | 11.74 | 11.69 | to | 11.79 |
| - | | | to | |
| 1,2-Dibromoethane (CLP2) | 7.13 | 7.05 | to | 7.21 |
| ibromo-3-chloropropane (CLP2) | 12.99 | 12.93 | to | 13.05 |

TRIMATRIX LABORATORIES

# RETENTION TIME WINDOWS

| Instrument Information | | Column Temperature Program | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Instrument Number: | 158 | Hold for: | 2 min | Ramp to: | 155 C | Initial Temp: | 40 C | |
| Detector: | ECD | Hold for: | 0 min | Ramp to: | 300 C | deg/min: | 8 | |
| Method/Column Reference: | 8011 | Hold for: | - | Ramp to: | - | deg/min: | 40 | |
| | | Hold for: | - | Ramp to: | - | deg/min: | - | |
| | | | | | | Injection Port Temperature | - | |
| | | | | | | | 250 | |
| Column 1 Element #: | 1050423 | Column 2 Element #: | | 1050422 | | | | |

| | Std 1 RT | Std 2 RT | Std 3 RT | Standard Deviation (min.) | RT Window Std. Dev. x 3 (min.) | | Absolute Window (sec.) | Compound Name |
|---|---|---|---|---|---|---|---|---|
| Date of Injection | 10/14/11 | 10/21/11 | 10/26/11 | | | | | |
| Time of Injection | 2:52 PM | 2:29 PM | 1:24 AM | | | | | |
| Compound / File Name | AB008110 | AB008165 | AB008239 | | | | | |
| ECD Detector | - | - | - | - | - | - | - | ECD Detector |
| 1,2-Dibromoethane (CLP1) | 6.64 | 6.67 | 6.65 | 0.015 | +/- | 0.046 | 2.75 | 1,2-Dibromoethane (CLP1) |
| bromo-3-chloropropane (CLP1) | 12.14 | 12.16 | 12.13 | 0.015 | +/- | 0.046 | 2.75 | 1,2-Dibromo-3-chloropropane (C |
| - | | | | | +/- | | | - |
| 1,2-Dibromoethane (CLP2) | 7.28 | 7.33 | 7.30 | 0.025 | +/- | 0.075 | 4.53 | 1,2-Dibromoethane (CLP2) |
| bromo-3-chloropropane (CLP2) | 13.20 | 13.24 | 13.22 | 0.020 | +/- | 0.060 | 3.60 | 1,2-Dibromo-3-chloropropane (C |

TRIMATRIX LABORATORIES

# DAILY RETENTION TIME WINDOWS

| | | | |
|---|---|---|---|
| **Instrument #:** | 158 | Date: | 5/4/12 |
| **Column 1 ID:** | 1050423 | File Name: | ABMAY027 |
| **Column 2 ID:** | 1050422 | | |

| COMPOUND | RETENTION TIME | TODAY'S RETENTION TIME WINDOW | | |
|---|---|---|---|---|
| **ECD Detector** | | | | |
| 1,2-Dibromoethane (CLP1) | 6.33 | 6.28 | to | 6.38 |
| bromo-3-chloropropane (CLP1) | 11.73 | 11.68 | to | 11.78 |
| - | | | to | |
| 1,2-Dibromoethane (CLP2) | 7.11 | 7.03 | to | 7.19 |
| bromo-3-chloropropane (CLP2) | 12.97 | 12.91 | to | 13.03 |

TRIMATRIX LABORATORIES

| Instrument 158 HP5890 | Date: 4/16/12 | Date Archived: | Analyst: BJH |
|---|---|---|---|

| Instrument Settings / Injection Volume | GC Program | | | | CCV Standards | | Routine Maintenance Items |
|---|---|---|---|---|---|---|---|
| Column Type: A=RTXCLP B=RTXCLP2 | Initial: | | | | | | Column Clipped: Yes (No) |
| Column ID: A= 1050423 B= 1050422 | Hold: | | | | | | New Injection Port Liner: Yes (No) |
| Injection Volume: ~~1uL~~ 2 uL | Rate: | | | | | | New Septa: Yes (No) |
| Injector / Detector: 240°C / 320°C | Final: | | | | | | New Syringe: Yes (No) |
| Method: 8081 / 8082 / 608 / 608.2 (8011) 8151 / 8121 | Hold: | | | | | | Shift Start Time: |
| Default Temperature Program: (Yes) No | | | | | | | Shift Stop Time: |

| Run ID | File ID | Analysis Method | Dilution | ICV/CCV Check (Pass or High/Low) | Sample Notes, Calibration Standards, PEM Injection Times, Analytical Batch Information, etc. |
|---|---|---|---|---|---|
| Hex | APR2012 282 | 041612A/B | | | |
| INST BLK | 283 | | | | |
| L1 | 284 | | | | |
| L2 | 285 | | | | |
| L3 | 286 | | | | |
| L4 | 287 | | | | |
| L5 | 288 | | | | |
| L6 | 289 | | | | |
| ~~SCV~~ INST BLK | 290 | | | | reset range on instrument |
| L1 | 291 | | | | |
| L2 | 292 | | | | |
| L3 | 293 | | | | |
| L4 | 294 | | | | |
| L5 | 295 | | | | |
| L6 | 296 | | | | |
| SCV | 297 | | | Pass | |



8998

TRIMATRIX LABORATORIES

| Run ID | File ID | Analysis Method | Dilution | ICV/CCV Check (Pass or High/Low) | Sample Notes, Calibration Standards, PEM Injection Times, Analytical Batch Information, etc. |
|---|---|---|---|---|---|
| 1204486-BLK1 | 298 | 041612A/B | | | |
| 1204486-BS1 | 299 | | | | |
| 1204486-BSD1 | 300 ~~230~~ | | | | |
| 1204090-01 | 301 ~~231~~ | | | | |
| 1204205-01 | 302 ~~232~~ | | | | |
| 1204205-02 | 303 ~~233~~ | | | | |
| 1204122-01 | 304 ~~234~~ | | | | |
| 1204122-02 | 305 ~~235~~ | | | | |
| 1204122-03 | 306 ~~236~~ | | | | |
| 1204122-04 | 307 ~~237~~ | | | | |
| CCV1 | 308 ~~238~~ | | | Pass | |
| 1204122-05 | 309 ~~239~~ | | | | |
| 1204122-06 | 310 ~~240~~ | | | | |
| 1204485-MS1 | 311 ~~241~~ | | | | |
| 1204485.MSD1 | 312 ~~242~~ | | | | |
| 1204122-07 | 313 ~~243~~ | | | | |
| 1204122-08 | 314 ~~244~~ | | | | |
| 1204122-09 | 315 ~~245~~ | | | | |
| 1204122-10 | 316 ~~246~~ | | | | |
| CCV2 | 317 247 | | | Pass | |
| | | | | | |
| | | | | | BJT 4/16/12 |

65966

TRIMATRIX LABORATORIES

| Instrument 158 HP5890 | Date: 4/24/12 | Date Archived: | Analyst: BTH |
|---|---|---|---|

| Instrument Settings / Injection Volume | GC Program | | | | CCV Standards | | Routine Maintenance Items |
|---|---|---|---|---|---|---|---|
| Column Type: A=RTXCLP B=RTXCLP2 | Initial: | | | | | | Column Clipped: Yes / No |
| Column ID: A= 1050423 B= 1050422 | Hold: | | | | | | New Injection Port Liner: Yes / No |
| Injection Volume: ~~1uL~~ 2uL | Rate: | | | | | | New Septa: Yes / No |
| Injector / Detector: 240°C / 320°C | Final: | | | | | | New Syringe: Yes / No |
| Method: 8081 / 8082 / 608 / 608.2 / 8011 / 8151 / 8121 | Hold: | | | | | | Shift Start Time: |
| Default Temperature Program: Yes / No | | | | | | | Shift Stop Time: |

| Run ID | File ID | Analysis Method | Dilution | ICV/CCV Check (Pass or High/Low) | Sample Notes, Calibration Standards, PEM Injection Times, Analytical Batch Information, etc. |
|---|---|---|---|---|---|
| Hex | 397 | 041612A/B | | | |
| INST BLK | 398 | ↓ | | | |
| CCV1 | 399 | | | Pass | |
| 1205087-BLK1 | 400 | | | | |
| 1205087-BS1 | 401 | | | | |
| 1205087-BSD1 | 402 | | | | |
| 1204329-01 | 403 | | | | |
| 1204329-01 | 404 | | | | |
| CCV2 | 405 | | | Pass | |
| | | | | | BTH 4/24/12 |

TRIMATRIX LABORATORIES

| Instrument 158 HP5890 | Date: 5/4/12 | Date Archived: | Analyst: BJH |
|---|---|---|---|

| Instrument Settings / Injection Volume | GC Program | | | | CCV Standards | | Routine Maintenance Items |
|---|---|---|---|---|---|---|---|
| Column Type: A=RTXCLP B=RTXCLP2 | Initial: | | | | | | Column Clipped: Yes / No |
| Column ID: A= 1050423 B= 1050422 | Hold: | | | | | | New Injection Port Liner: Yes / No |
| Injection Volume: ~~1uL~~ 2uL | Rate: | | | | | | New Septa: Yes / No |
| Injector / Detector: 240°C / 320°C | Final: | | | | | | New Syringe: Yes / No |
| Method: 8081 / 8082 / 608 / 608.2 / 8011 / 8151 / 8121 | Hold: | | | | | | Shift Start Time: |
| Default Temperature Program: Yes / No | | | | | | | Shift Stop Time: |

| Run ID | File ID | Analysis Method | Dilution | ICV/CCV Check (Pass or High/Low) | Sample Notes, Calibration Standards, PEM Injection Times, Analytical Batch Information, etc. |
|---|---|---|---|---|---|
| Hex | 25 | 041612A/B | | | |
| INST BLK | 26 | | | | |
| CCV1 | 27 | | | Pass | |
| 1205560-BLK1 | 28 | | | | |
| 1205560-BS1 | 29 | | | | |
| 1204454-01 | 30 | | | | |
| 1204454-02 | 31 | | | | |
| 1205072-01 | 32 | | | | |
| 1205073-01 | 33 | | | | |
| 1205085-01 | 34 | | | | |
| 1205085-02 | 35 | | | | |
| 1205560-MS1 | 36 | | | | |
| 1205560-MSD1 | 37 | | | | |
| CCV2 | 38 | | | Pass | |
| | | | | | |
| | | | | | BJH 5/4/12 |

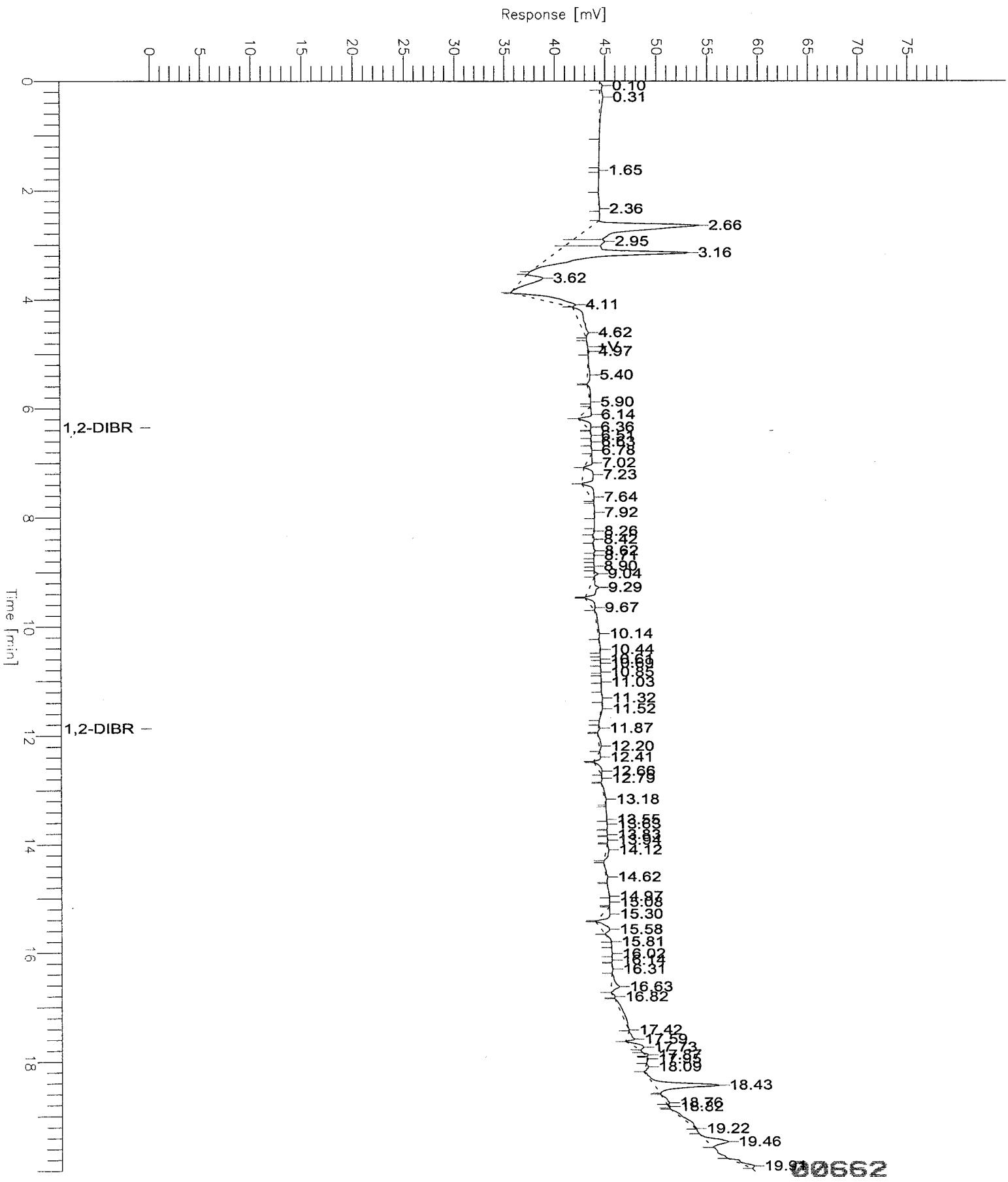


00661

# Chromatogram

Sample Name : INST BLK
FileName : C:\TC4\158\APRIL2~1\AAPR290.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 4/16 Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 12:44
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00662

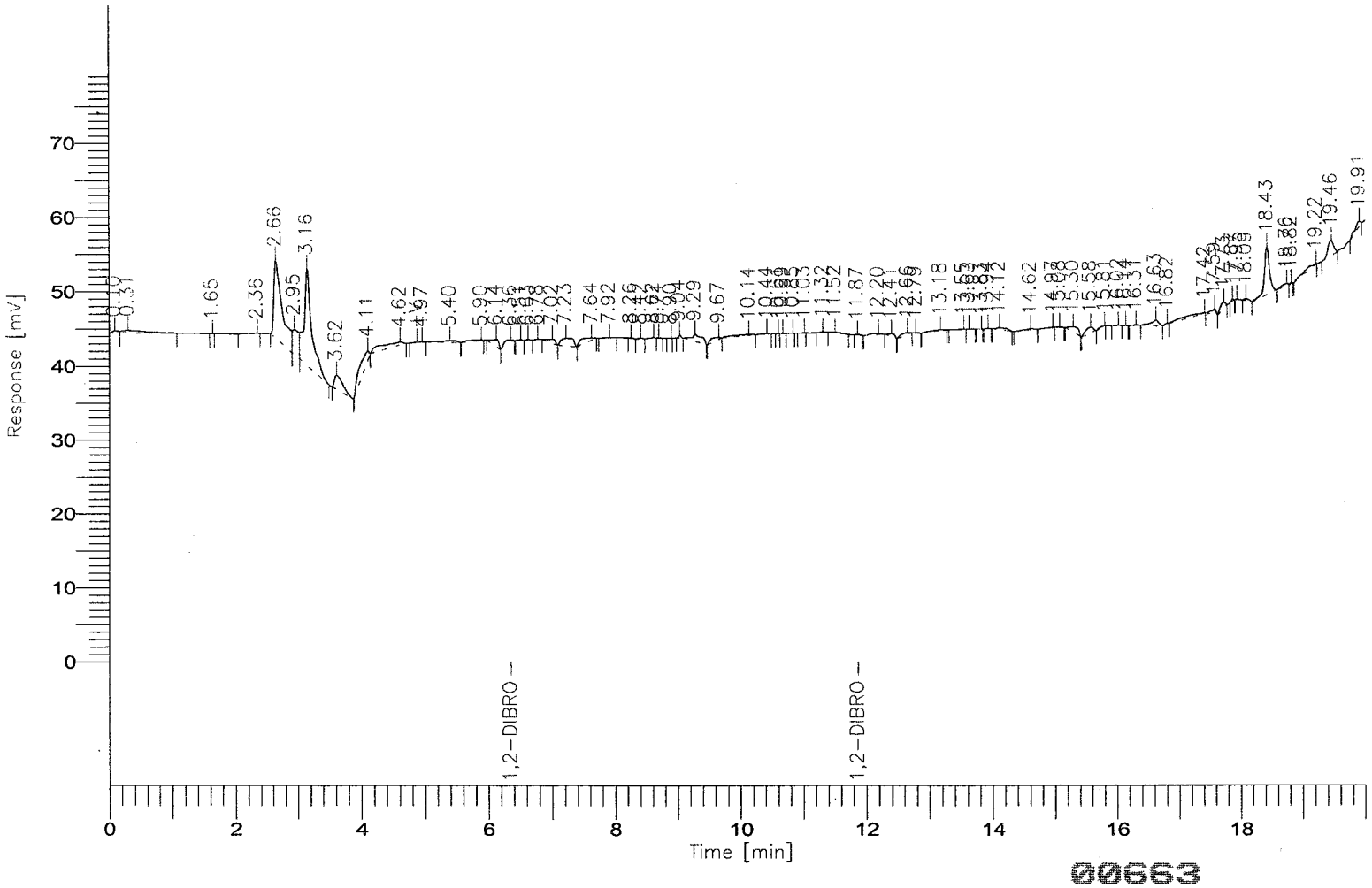
Software Version: 4.1<2F12>
Sample Name : INST BLK Time : 4/16/12 16:03
Sample Number: 4/16 Study : 8011
Operator : BJH

Instrument : 158 Channel : A A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 12:44
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR290.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR290.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR290.R
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00663

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

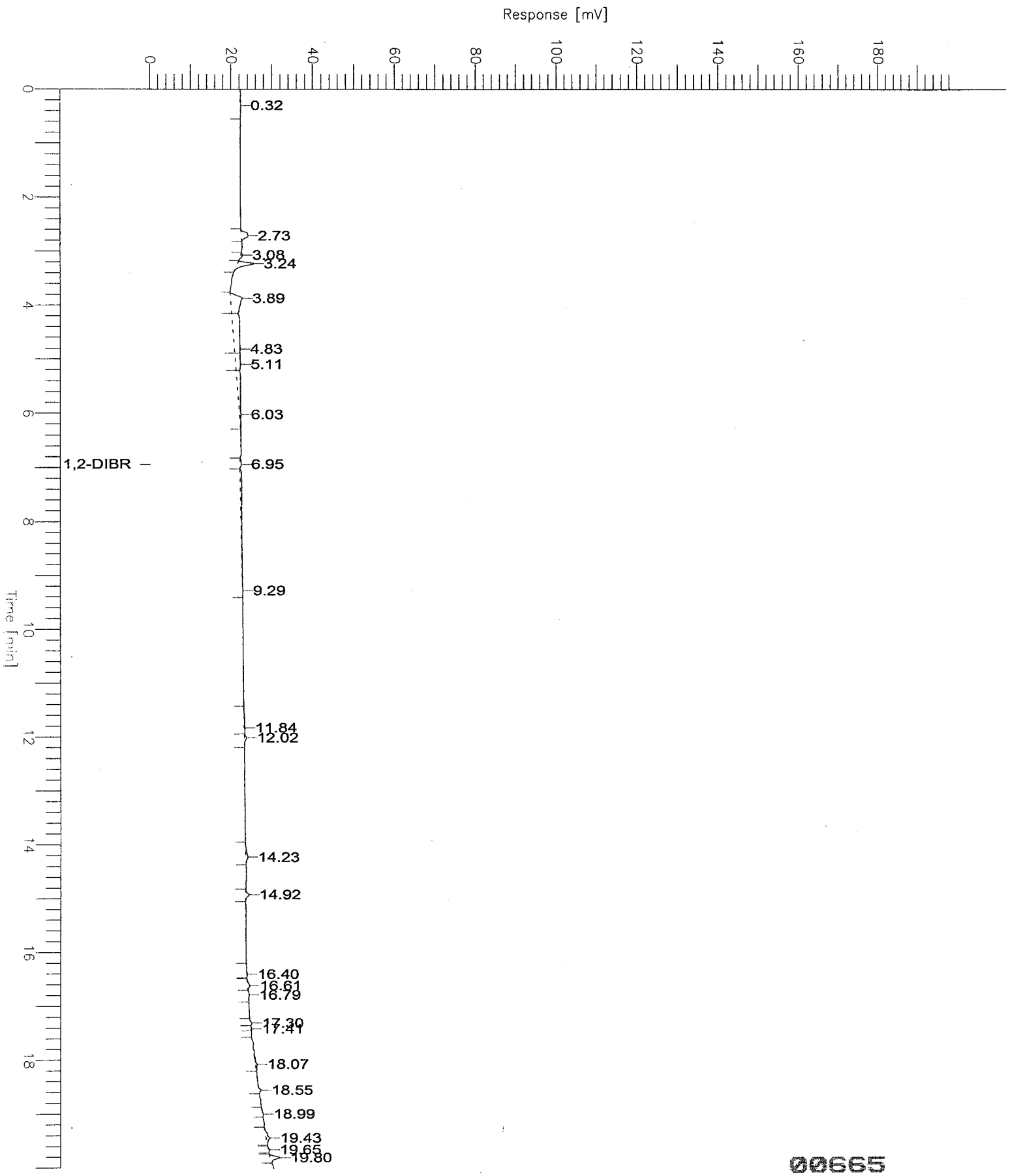
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.36 | 1,2-DIBROMOETHANE | -0.0005 | 362.68 | 5686.50 | 35 | 2 | -0.02902 |
| 11.87 | 1,2-DIBROMO3CHLOROPR | -0.0002 | 136.80 | 509.00 | 35 | 2 | -0.01389 |
| | | | 499.49 | 6195.50 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR290.TX0

# Chromatogram

Sample Name : INST BLK
FileName : C:\TC4\158\APRIL2~1\BAPR290.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 4/16 Page 1 of 1
Date : 4/16/12 16:03
Time of Injection: 4/16/12 12:44
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00665

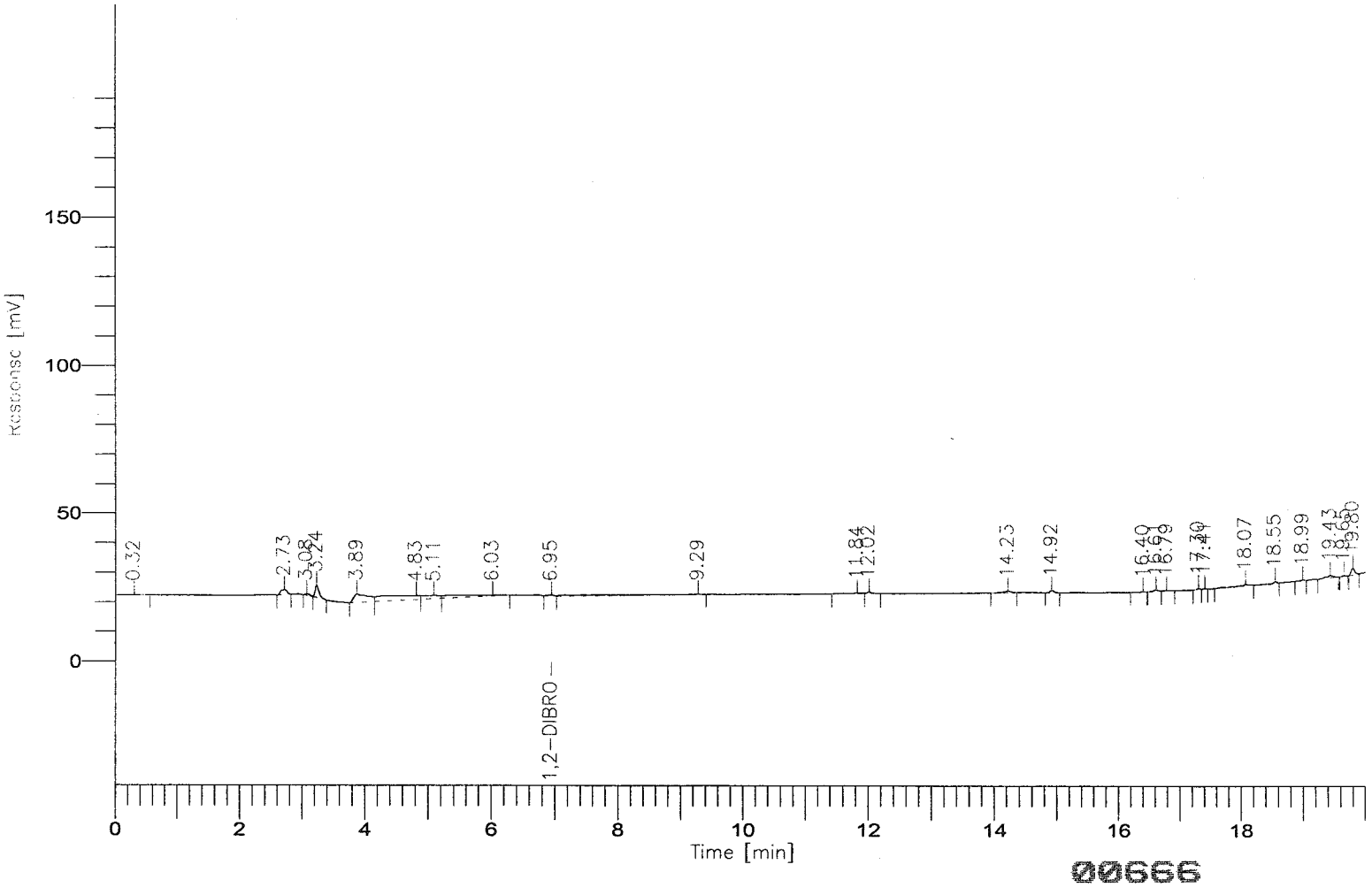
Software Version: 4.1<2F12>
Sample Name : INST BLK Time : 4/16/12 16:03
Sample Number: 4/16 Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 4/16/12 12:44
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR290.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR290.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR290.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00666

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

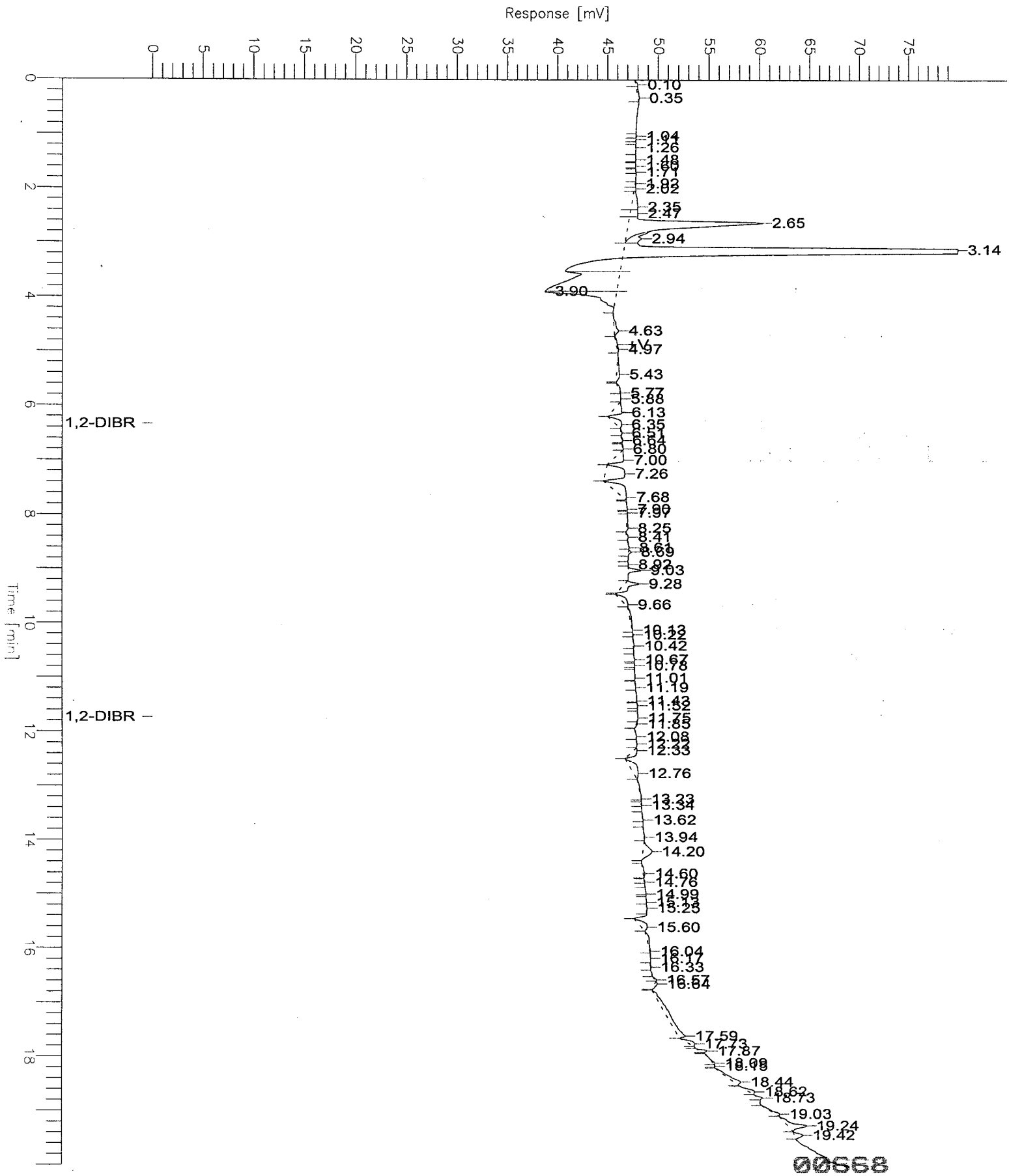
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) |
|---|---|---|---|---|---|---|---|
| 6.95 | 1,2-DIBROMOETHANE (2 | -4.53e-06 | 313.92 | 2516.00 | 35 | 2 | -0.00026 |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 |
| | | | 313.92 | 2516.00 | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR290.TX0

# Chromatogram

Sample Name : INST BLK
FileName : C:\TC4\158\APRIL2~1\AAPR398.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 4/24 Page 1 of 1
Date : 4/25/12 08:11
Time of Injection: 4/24/12 15:24
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV



Software Version: 4.1<2F12>
Sample Name : INST BLK
Sample Number: 4/24
Operator : BJH

Time : 4/25/12 08:11
Study : 8011

Instrument : 158
AutoSampler :
Rack/Vial : 0/0

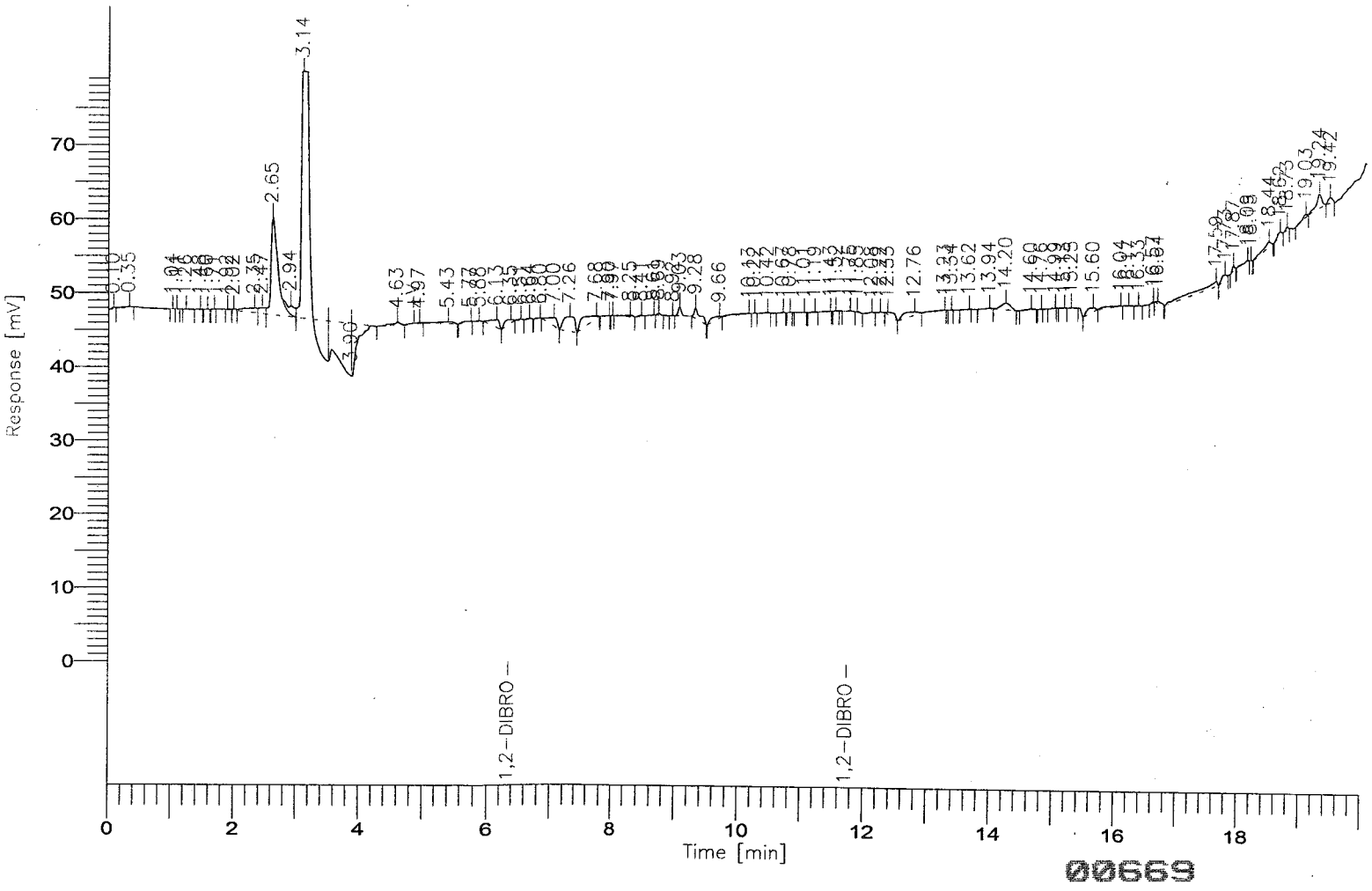
Channel : A A/D mV Range : 1000

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 15:24
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\AAPR398.RAW
Result File : C:\TC4\158\APRIL2~1\AAPR398.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\AAPR398.I
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00




00669

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

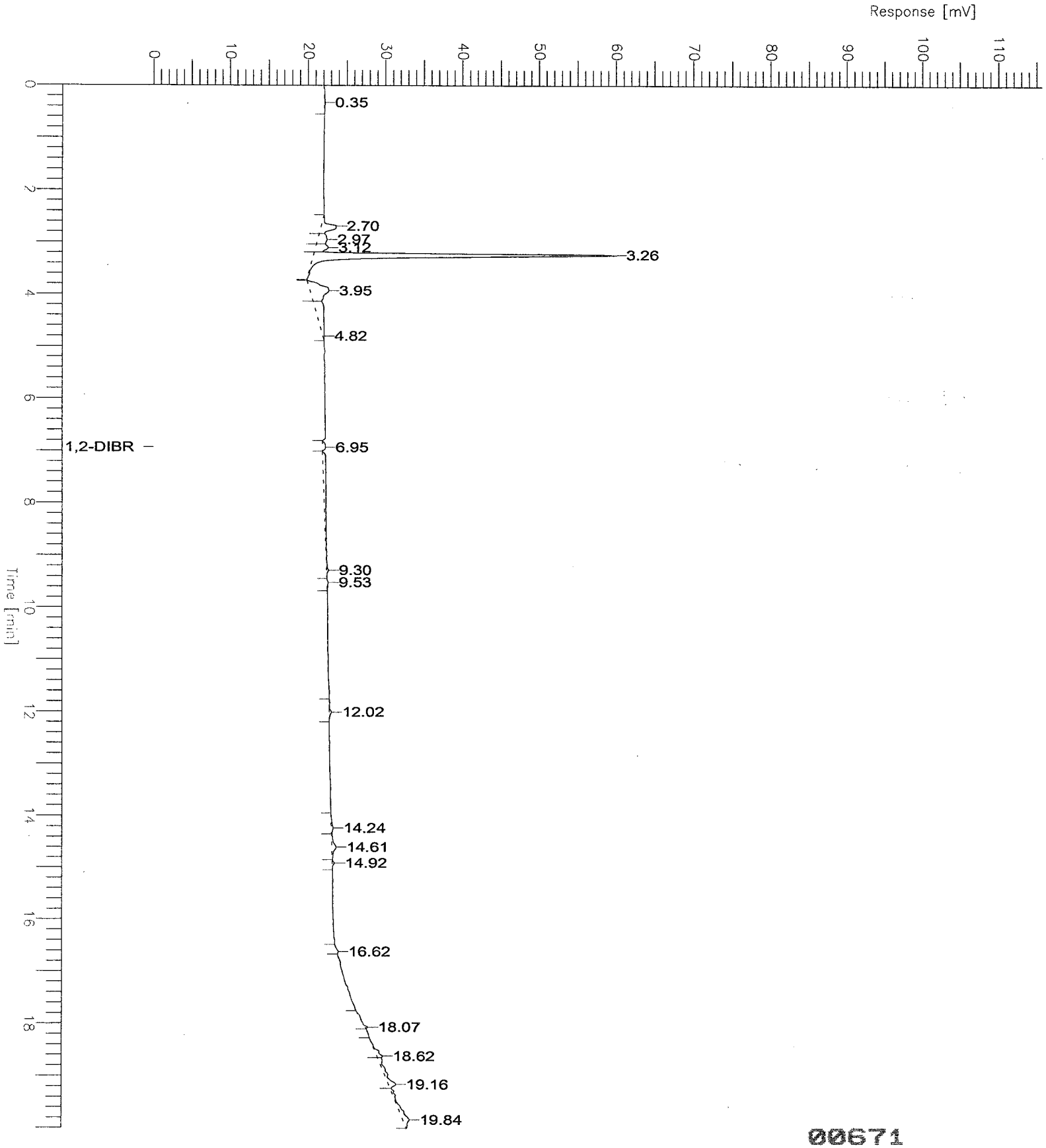
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.35 | 1,2-DIBROMOETHANE | -0.0005 | 507.30 | 7091.00 | 35 | 2 | -0.02737 | 2MD2 |
| 11.75 | 1,2-DIBROMO3CHLOROPR | -0.0003 | 62.61 | 417.00 | 35 | 2 | -0.01443 | ↓ |
| | | | 569.91 | 7508.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\AAPR398.TX0

# Chromatogram

Sample Name : INST BLK
FileName : C:\TC4\158\APRIL2~1\BAPR398.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 4/24 Page 1 of 1
Date : 4/25/12 08:11
Time of Injection: 4/24/12 15:24
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00671

Software Version: 4.1<2F12>
Sample Name : INST BLK
Sample Number: 4/24
Operator : BJH

Time : 4/25/12 08:11
Study : 8011

Instrument : 158
AutoSampler :
Rack/Vial : 0/0

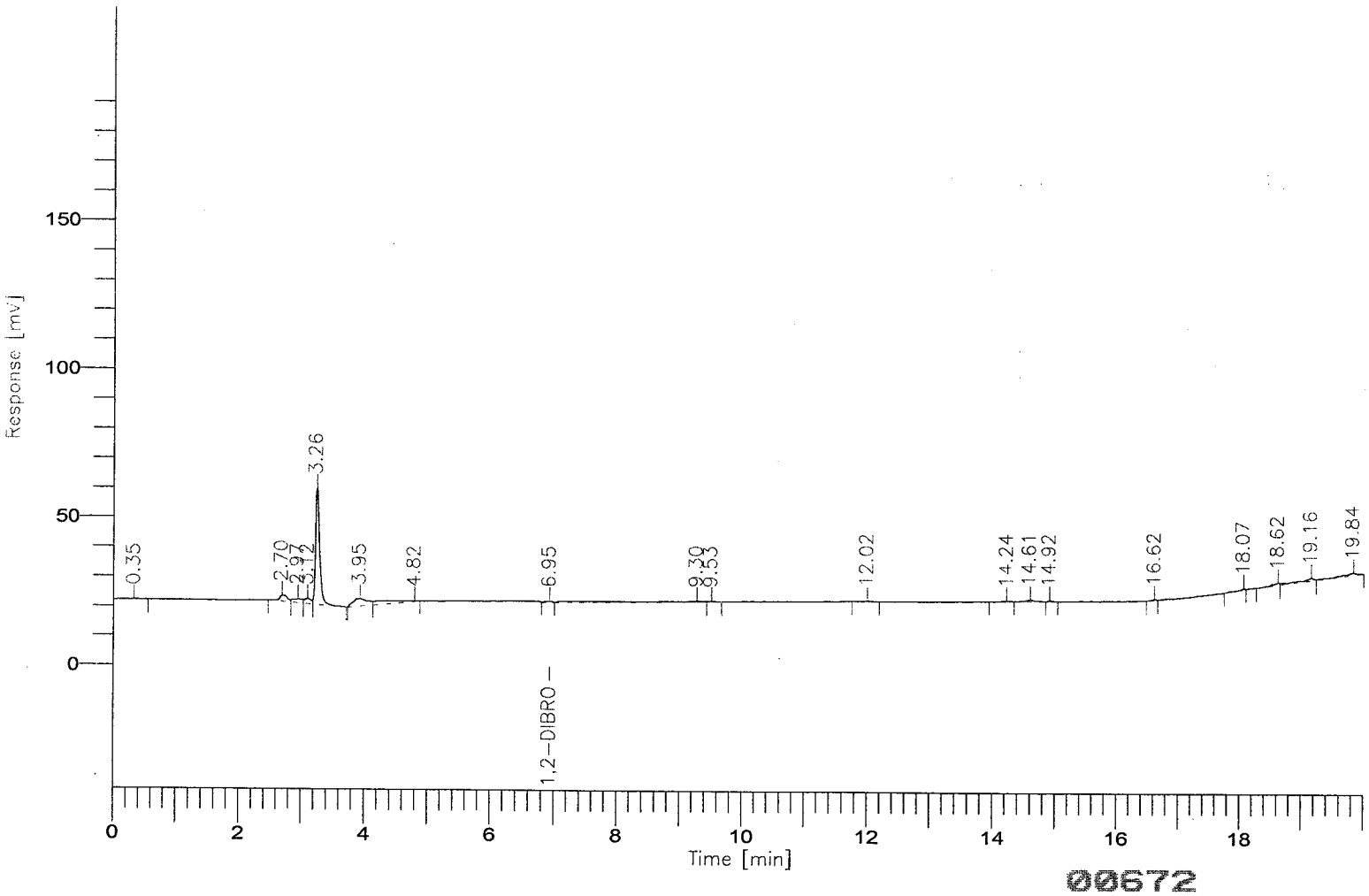
Channel : B A/D mV Range : 1000

Interface Serial # : 2119574781 Data Acquisition Time: 4/24/12 15:24
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\APRIL2~1\BAPR398.RAW
Result File : C:\TC4\158\APRIL2~1\BAPR398.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\APRIL2~1\BAPR398.R
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\APRIL2~1\APR2012.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00




00672

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

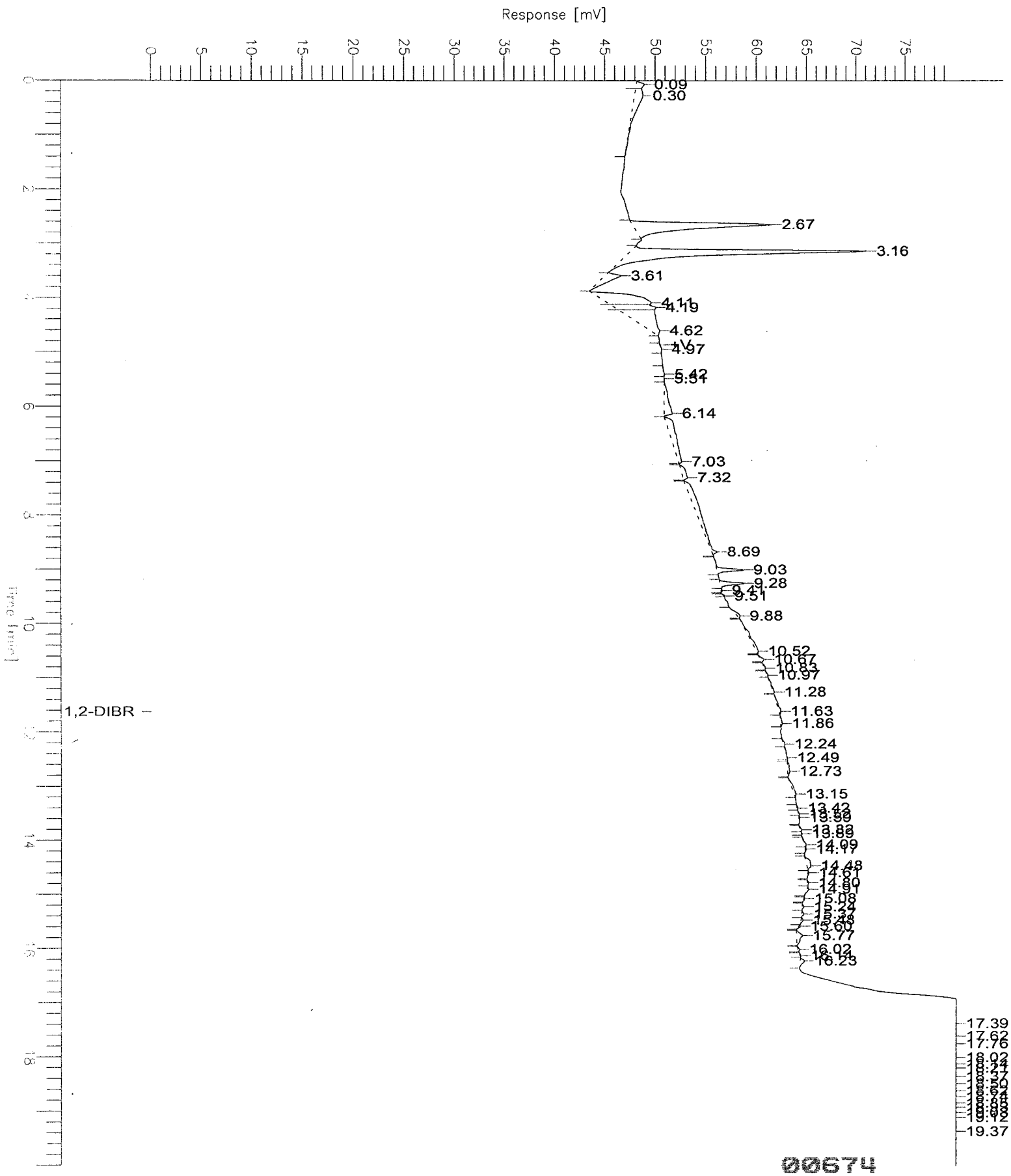
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.94 | 1,2-DIBROMOETHANE (2 | 0.0001 | 423.97 | 3420.00 | 35 | 2 | 0.00306 | CMD2 |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | ↓ |
| | | | 423.97 | 3420.00 | | | | |

Report stored in ASCII file: C:\TC4\158\APRIL2~1\BAPR398.TX0

# Chromatogram

Sample Name : INST BLK
FileName : C:\TC4\158\MAY2012\AMAY026.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 5/4 Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 09:35
Low Point : 0.00 mV High Point : 80.00 mV
Plot Scale: 80.0 mV




00674

Software Version: 4.1<2F12>
Sample Name : INST BLK
Sample Number: 5/4
Operator : BJH

Time : 5/4/12 15:58
Study : 8011

Instrument : 158
AutoSampler :
Rack/Vial : 0/0

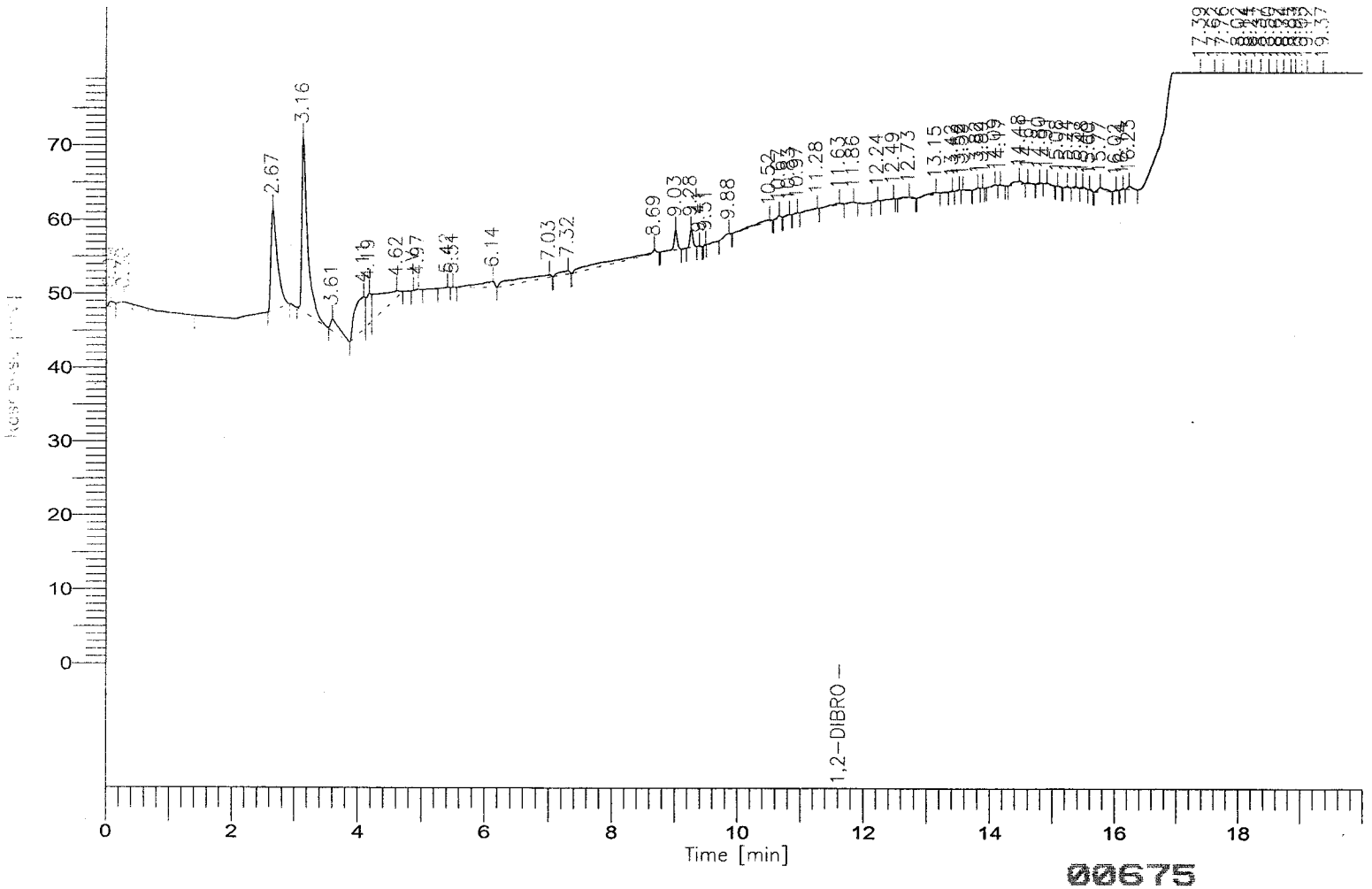
Channel : A A/D mV Range : 1000

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 09:35
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\AMAY026.RAW
Result File : C:\TC4\158\MAY2012\AMAY026.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\AMAY026.RS
Proc Method : C:\TC4\158\8011ME~1\041612A.mth
Calib Method : C:\TC4\158\8011ME~1\041612A.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 0.000000
Dilution Factor : 1.00




00675

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

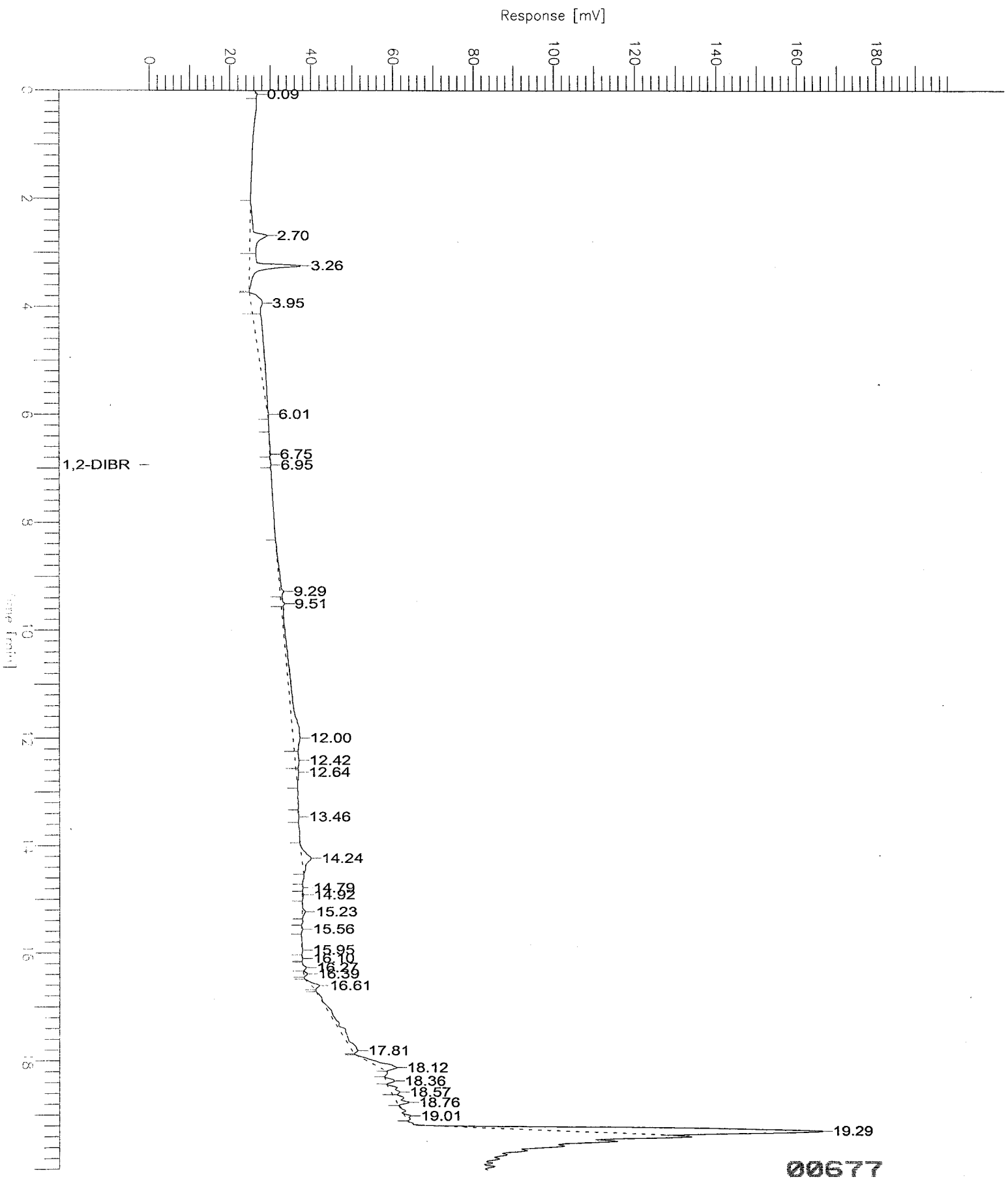
| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.34 | 1,2-DIBROMOETHANE | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | <MDL |
| 11.63 | 1,2-DIBROMO3CHLOROPR | -0.0002 | 187.98 | 2791.00 | 35 | 2 | -0.01353 | |
| | | | 187.98 | 2791.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\AMAY026.TX0

# Chromatogram

Sample Name : INST BLK
FileName : C:\TC4\158\MAY2012\BMAY026.raw
Method : 041612A
Start Time : 0.00 min End Time : 20.00 min
Scale Factor: 0.0 Plot Offset: 0 mV

Sample #: 5/4 Page 1 of 1
Date : 5/4/12 15:58
Time of Injection: 5/4/12 09:35
Low Point : 0.00 mV High Point : 200.00 mV
Plot Scale: 200.0 mV




00677

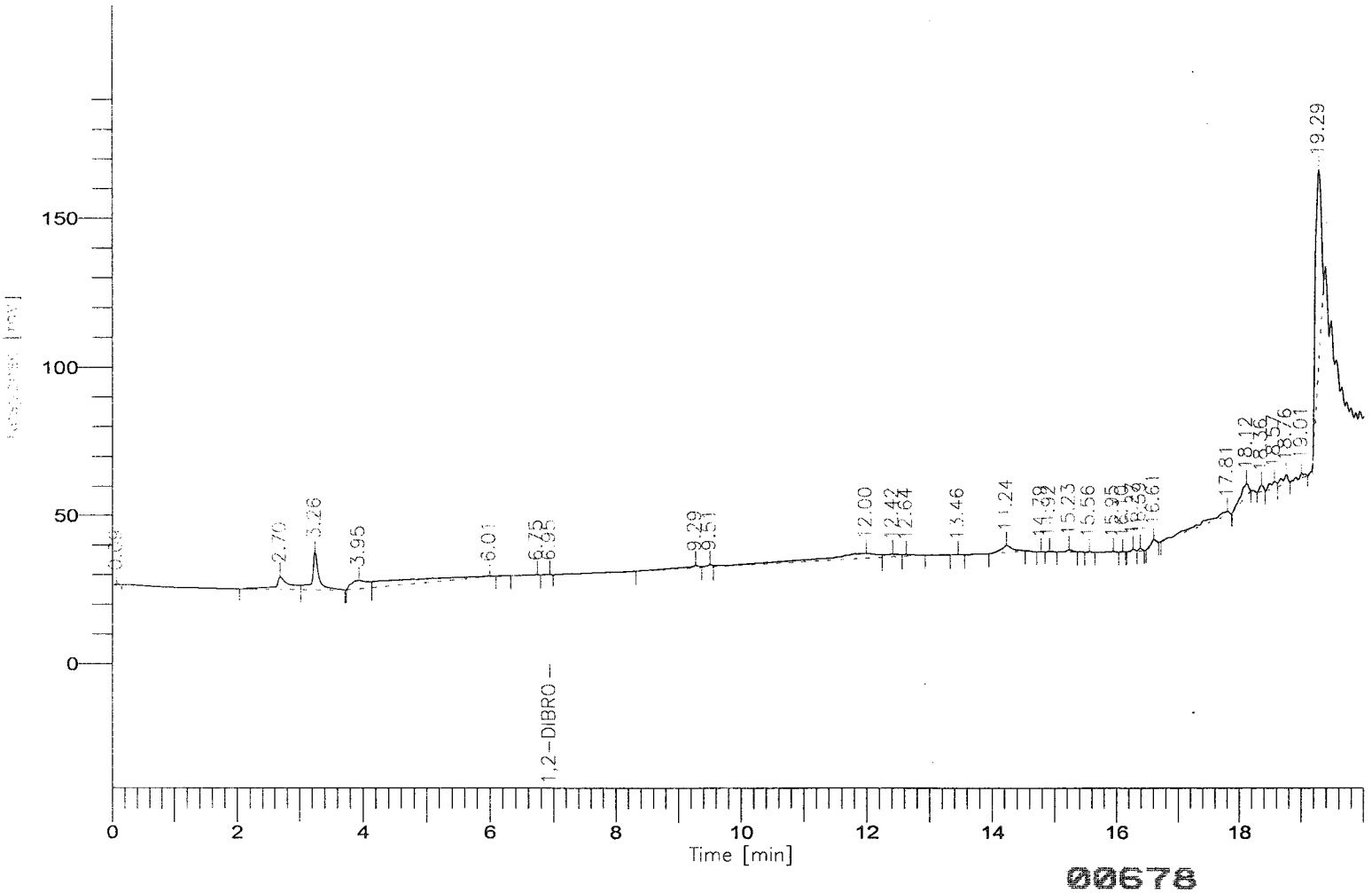
Software Version: 4.1<2F12>
Sample Name : INST BLK Time : 5/4/12 15:58
Sample Number: 5/4 Study : 8011
Operator : BJH

Instrument : 158 Channel : B A/D mV Range : 1000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 2119574781 Data Acquisition Time: 5/4/12 09:35
Delay Time : 0.00 min.
End Time : 20.00 min.
Sampling Rate : 1.0000 pts/sec

Raw Data File : C:\TC4\158\MAY2012\BMAY026.RAW
Result File : C:\TC4\158\MAY2012\BMAY026.RST
Inst Method : C:\TC4\158\8011ME~1\041612A from C:\TC4\158\MAY2012\BMAY026.RS
Proc Method : C:\TC4\158\8011ME~1\041612B.mth
Calib Method : C:\TC4\158\8011ME~1\041612B.mth
Sequence File : C:\TC4\158\MAY2012\MAY2012.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00




00678

TriMatrix Laboratories GC158 EPA METHOD 8011

Column: A: RTXCLP2 30M X 0.53MM ID B: RTX CLP 30M X 0.53MM ID

| Time [min] | Component Name | Amount (ng/ul) | Height [µV] | Area [µV·s] | Initial (ml) | Final (ml) | Conc. (ug/l) | |
|---|---|---|---|---|---|---|---|---|
| 6.95 | 1,2-DIBROMOETHANE (2 | -0.0001 | 150.67 | 1413.00 | 35 | 2 | -0.00519 | <MDL |
| 12.98 | 1,2-DBCP (2C) | 0.0000 | 0.00 | 0.00 | 35 | 2 | 0.00000 | |
| | | | 150.67 | 1413.00 | | | | |

Report stored in ASCII file: C:\TC4\158\MAY2012\BMAY026.TX0