

ENTERED

GRCB 05

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle
LABORATORIES

Bill To
NMED-HWB 2905 Rodeo Park Drive East, Bldg. 1 Santa Fe, NM 87505-6303 Client #: 810-128

Date	Invoice #
03/02/2005	89700

COPY

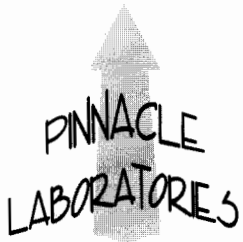
P.O. No.	Terms	Project #	Project Name
850454519	Net 30	(None)	Giant Bloomfield

Quantity	Description	Rate	Amount
1	Line 29 Method 8015 Gas/8021 BTEX/MtBE	54.00	54.00T
1	Line 31 Method 8015 Direct Inject (GC/FID)	54.00	54.00T
	subtotal		108.00
	Line 160 Rush 2 (1 week)	50.00%	54.00T



Remit to: Pinnacle Laboratories, Inc.
2709-D Pan American Freeway NE
Albuquerque, NM 87107

Accession #: 502149 Authorized By: Dave Cobrain/Hope Monzeglio	Sales Tax (6.75%)	\$10.94
	Total	\$172.94



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Pinnacle Lab ID number **502149**
March 02, 2005

NMED-HWB
2905 RODEO PARK DR. EAST BLDG. 1
SANTA FE, NM 87505

Project Name GIANT BLOOMFIELD
Project Number (NONE)

Attention: DAVE COBRAIN/HOPE MONZEGLIO

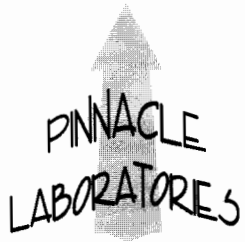
On 02/23/2005 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.
General Manager, Pinnacle Laboratories, Inc.

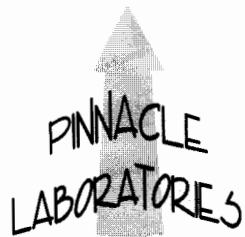
MR: jt

Enclosure



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CLIENT	: NMED-HWB	PINNACLE ID	: 502149
PROJECT #	: (NONE)	DATE RECEIVED	: 02/23/2005
PROJECT NAME	: GIANT BLOOMFIELD	REPORT DATE	: 03/02/2005
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
502149 - 01	TANK 33 OUTFALL	AQUEOUS	02/23/2005



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B
CLIENT : NMED-HWB
PROJECT # : (NONE)
PROJECT NAME : GIANT BLOOMFIELD

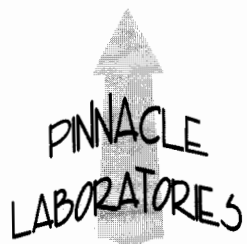
PINNACLE I.D. : 502149
ANALYST : DSR / BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	TANK 33 OUTFALL	AQUEOUS	02/23/2005	NA	02/24/2005	5

PARAMETER	DET. LIMIT	UNITS	TANK 33 OUTFALL
BENZENE	0.5	UG/L	25
TOLUENE	0.5	UG/L	< 2.5
ETHYLBENZENE	0.5	UG/L	18
TOTAL XYLENES	1.0	UG/L	21
METHYL-t-BUTYL ETHER	2.5	UG/L	52

SURROGATE:
BROMOFLUOROBENZENE (%) 97
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS

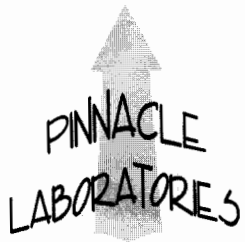
TEST : EPA 8015B GRO
CLIENT : NMED-HWB
PROJECT # : (NONE)
PROJECT NAME : GIANT BLOOMFIELD

PINNACLE I.D. : 502149
ANALYST : DSR / BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	TANK 33 OUTFALL	AQUEOUS	02/23/2005	NA	02/24/2005	1

PARAMETER	DET. LIMIT	UNITS	TANK 33 OUTFALL
FUEL HYDROCARBONS	100	UG/L	3700
HYDROCARBON RANGE			C6-C10
HYDROCARBONS QUANTITATED USING			GASOLINE

CHEMIST NOTES:
N/A



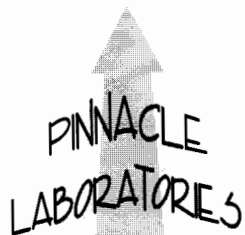
2709-D Pan American Freeway NE
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Phone (505) 344-3777
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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 502149
BLANK I.D.	: 022405	DATE EXTRACTED	: N/A
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/24/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	ANALYST	: DSR / BP

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<1.0
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		99
SURROGATE LIMITS	(80 - 120)	

CHEMIST NOTES:
N/A



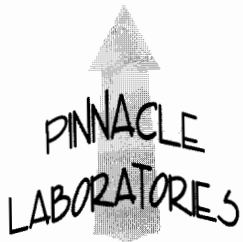
2709-D Pan American Freeway NE
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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 502149
BLANK I.D.	: 022405B	DATE EXTRACTED	: N/A
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/24/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	ANALYST	: DSR / BP

PARAMETER	UNITS	
FUEL HYDROCARBONS	UG/L	<100
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
 LCS/LCSD

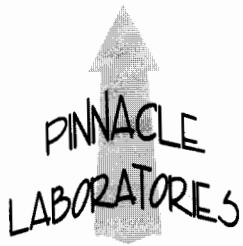
TEST	: EPA 8015B GRO	PINNACLE I.D.	:	502149
BATCH #	: 022405B	DATE EXTRACTED	:	N/A
CLIENT	: NMED-HWB	DATE ANALYZED	:	02/24/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	:	AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	UNITS	:	UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<100	1000	890	89	912	91	2	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:
 N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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GAS CHROMATOGRAPHY QUALITY CONTROL
 MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 502149
MSMSD #	: 502149-01	DATE EXTRACTED	: N/A
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/24/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	UNITS	: UG/L

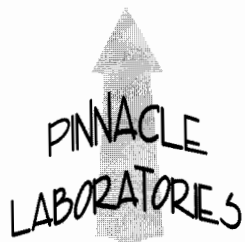
PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	3700	1000	4580	88	4270	57 - M4	7	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:

M4 = % REC is outside of PLI criteria.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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GAS CHROMATOGRAPHY QUALITY CONTROL
 LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 502149
BATCH #	: 022405	DATE EXTRACTED	: N/A
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/24/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	UNITS	: UG/L

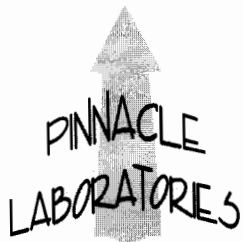
PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	20.2	101	20.1	101	0	(80 - 120)	20
TOLUENE	<0.5	20.0	20.3	102	20.2	101	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.2	101	20.0	100	1	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	60.8	101	60.0	100	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	19.4	97	19.2	96	1	(70 - 133)	20

CHEMIST NOTES:

N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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GAS CHROMATOGRAPHY QUALITY CONTROL
 MS/MSD

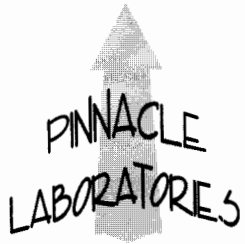
TEST	: EPA 8021B	PINNACLE I.D.	: 502149
MSMSD #	: 502150-01	DATE EXTRACTED	: N/A
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/24/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	21.3	107	20.5	103	4	(80 - 120)	20
TOLUENE	25	20.0	45.5	103	44.8	99	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	21.1	106	20.6	103	2	(80 - 120)	20
TOTAL XYLENES	<1.0	60.0	63.8	106	62.9	105	1	(80 - 120)	20
METHYL-t-BUTYL ETHER	<2.5	20.0	20.4	102	19.5	98	5	(70 - 133)	20

CHEMIST NOTES:
 N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMED-HWB
PROJECT # : (NONE)
PROJECT NAME : GIANT BLOOMFIELD

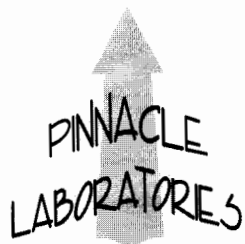
PINNACLE I.D. : 502149
ANALYST : DSR

SAMPLE	DATE	DATE	DATE	DIL.		
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	TANK 33 OUTFALL	AQUEOUS	02/23/2005	02/25/2005	02/25/2005	1

PARAMETER	DET. LIMIT	UNITS	TANK 33 OUTFALL
FUEL HYDROCARBONS, C6-C10	2.0	MG/L	3.5
FUEL HYDROCARBONS, C10-C22	1.0	MG/L	< 1.0
FUEL HYDROCARBONS, C22-C36	1.0	MG/L	< 1.0
CALCULATED SUM:			3.5

SURROGATE:
O-TERPHENYL (%) 94
SURROGATE LIMITS (70-130)

CHEMIST NOTES:
N/A



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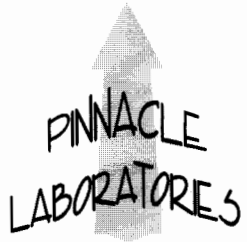
GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 502149
BLANK I.D.	: 022505	DATE EXTRACTED	: 02/25/2005
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/25/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	ANALYST	: DSR

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/L	< 2.0
FUEL HYDROCARBONS, C10-C22	MG/L	< 1.0
FUEL HYDROCARBONS, C22-C36	MG/L	< 1.0

SURROGATE:
O-TERPHENYL (%) 102
SURROGATE LIMITS (70-130)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
 LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 502149
LCS/LCSD #	: 022505	DATE EXTRACTED	: 02/25/2005
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/25/2005
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT BLOOMFIELD	UNITS	: MG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<1.0	33.0	32.6	99	31.2	95	4	(70-130)	20

CHEMIST NOTES:
 N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PLEASE FILL THIS FORM IN COMPLETELY.

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY
 DATE: 2/23/05 PAGE: OF

PROJECT MANAGER: Dave Coburn / Hope Monzello
 COMPANY: NMED Hazardous Waste Bureau
 ADDRESS: 2905 Radar Drive East Bld. 1
 Santa Fe NM 87505
 PHONE: 505-438-2545
 FAX: 505-428-2507
 BILL TO: Same As above
 COMPANY:
 ADDRESS:

Tank 33 outfall	40 ml/pcr	2	W
Tanks 33 outfall	40 ml/pcr	1	W/HCL
Tank 33 outfall	40 ml/pcr	1	W/HCL

Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject	DRD
(M8015) Gas/Purge & Trap GPO/DRS	
8021 (BTEX)/8015 (Gasoline) MTBE	
8021 (BTEX) MTBE MTMB PCE	X
8021 (TCL)	
8021 (EDX)	
8021 (HALO)	
8021 (CUST)	
504.1 EDB D/DBCP	
8260 (TCL) Volatile Organics	
8260 (Full) Volatile Organics EIPBMS	
8260 (CUST) Volatile Organics	
8260 (Langmuir) Volatile Organics	
Pesticides/PCB (808/8081/8082)	
Herbicides (815/8151)	
Base/Neutral/Acid Compounds GC/MS (625/8270)	
Polynuclear Aromatics (610/8310/8270-SIMS)	
General Chemistry:	
Priority Pollutant Metals (13)	
Target Analyte List Metals (23)	
RCRA Metals (8)	
RCRA Metals by TCLP (Method 1311)	
Metals:	

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.
 (RUSH) CHARGE \$1750
 NOT AVAILABLE ON ALL ANALYSES
 CERTIFICATION REQUIRED: DMI
 METALS PRESERVATION: METALS TOTAL DISSOLVED
 SHIPPED VIA:

PROJ. NO.:
 PROJ. NAME: Bent Bloomfield
 COMMENTS:
 3 years preserved w/ HCL
 1 year preserved w/ HCLs
 Hope Monzello called
 2 days to change to
 1 week
 RUSH!
 At 2:45

PROJ. NO.:
 PROJ. NAME: Bent Bloomfield
 COMMENTS:
 3 years preserved w/ HCL
 1 year preserved w/ HCLs
 Hope Monzello called
 2 days to change to
 1 week
 RUSH!
 At 2:45

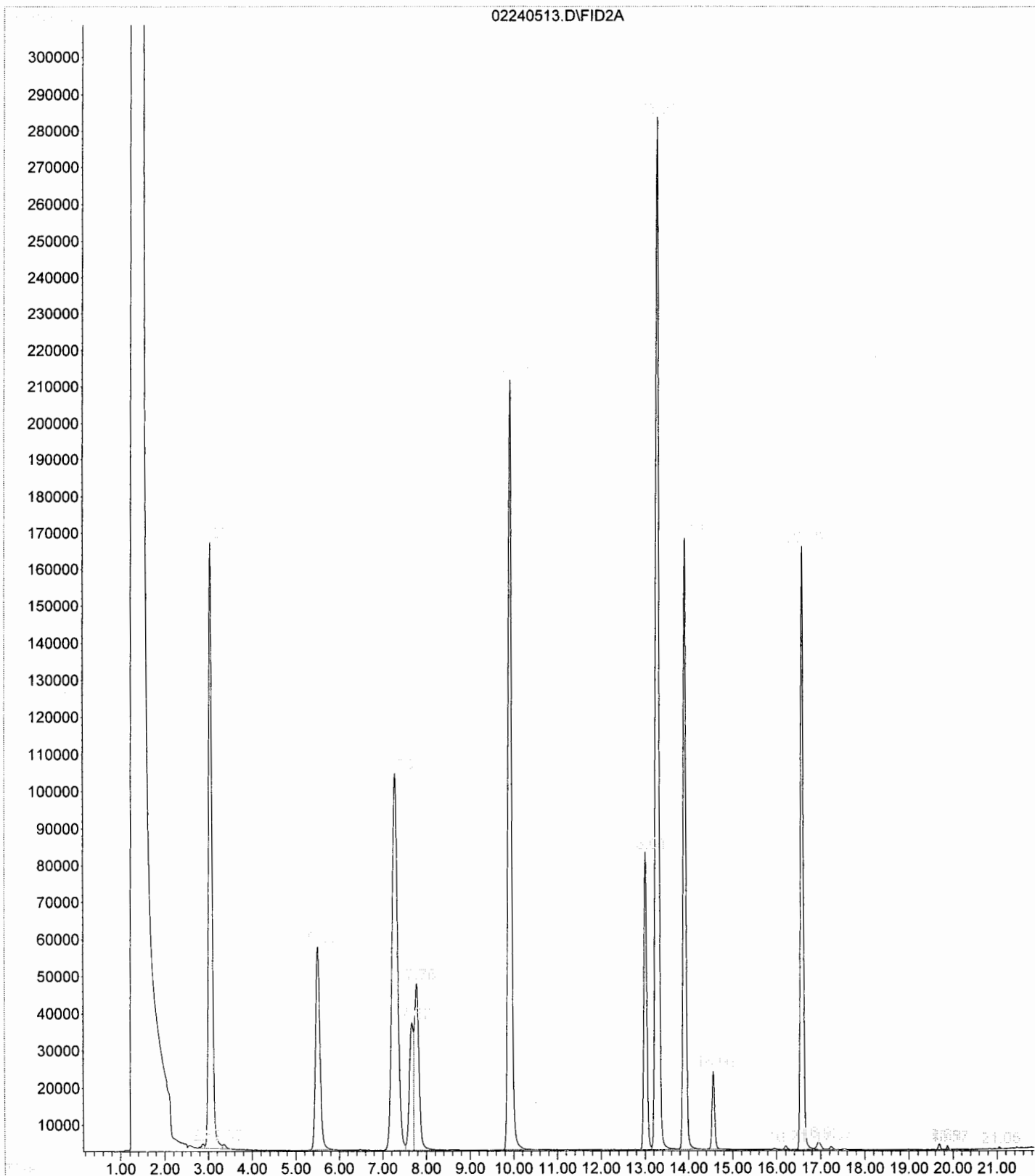
Signature: Hope Monzello
 Title: Project Manager
 Date: 2/23/05
 Time: 6:05

Signature: Hope Monzello
 Title: Project Manager
 Date: 2/23/05
 Time: 6:05

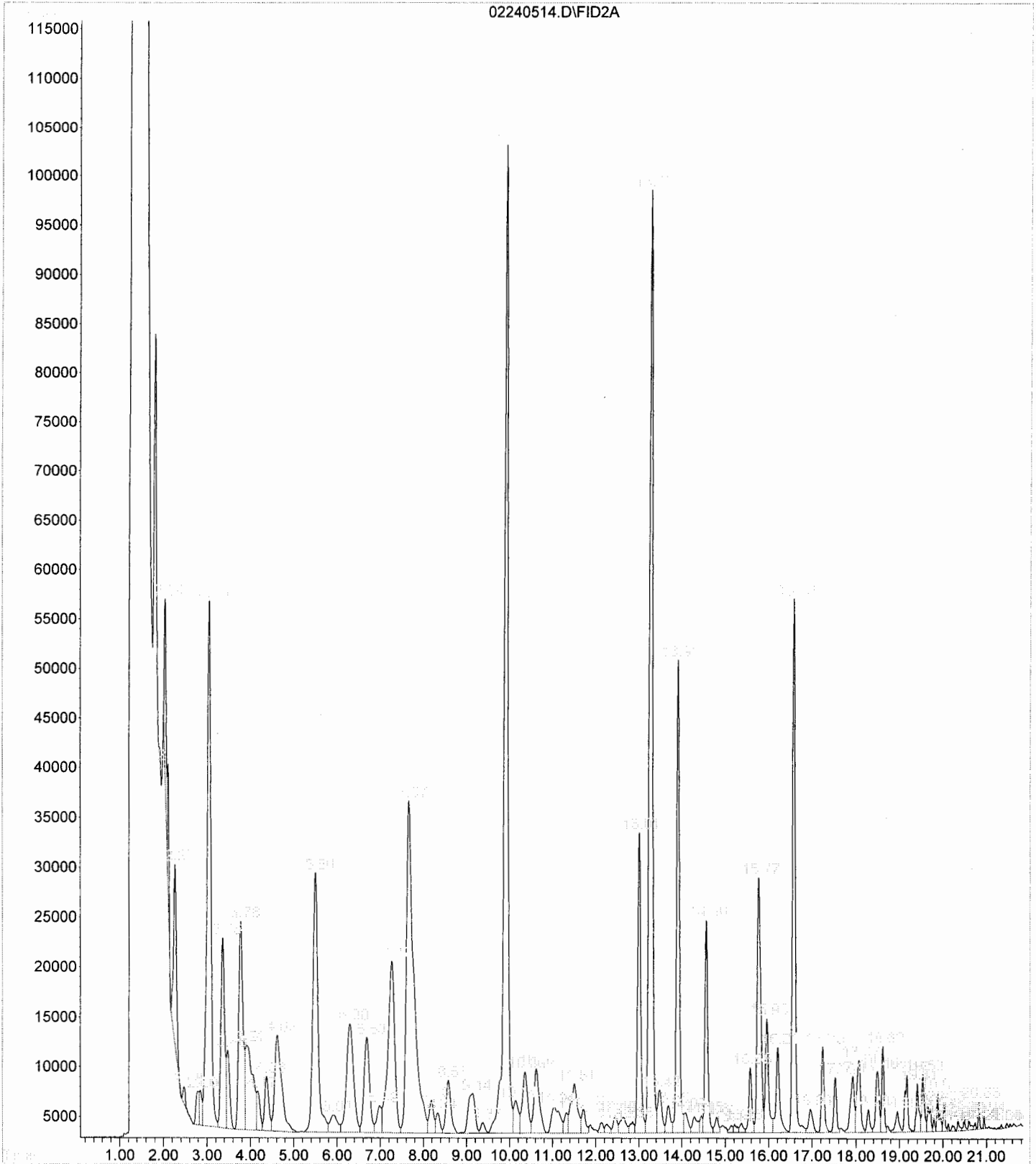
Signature: Hope Monzello
 Title: Project Manager
 Date: 2/23/05
 Time: 6:05

5
 46
 944W
 402149

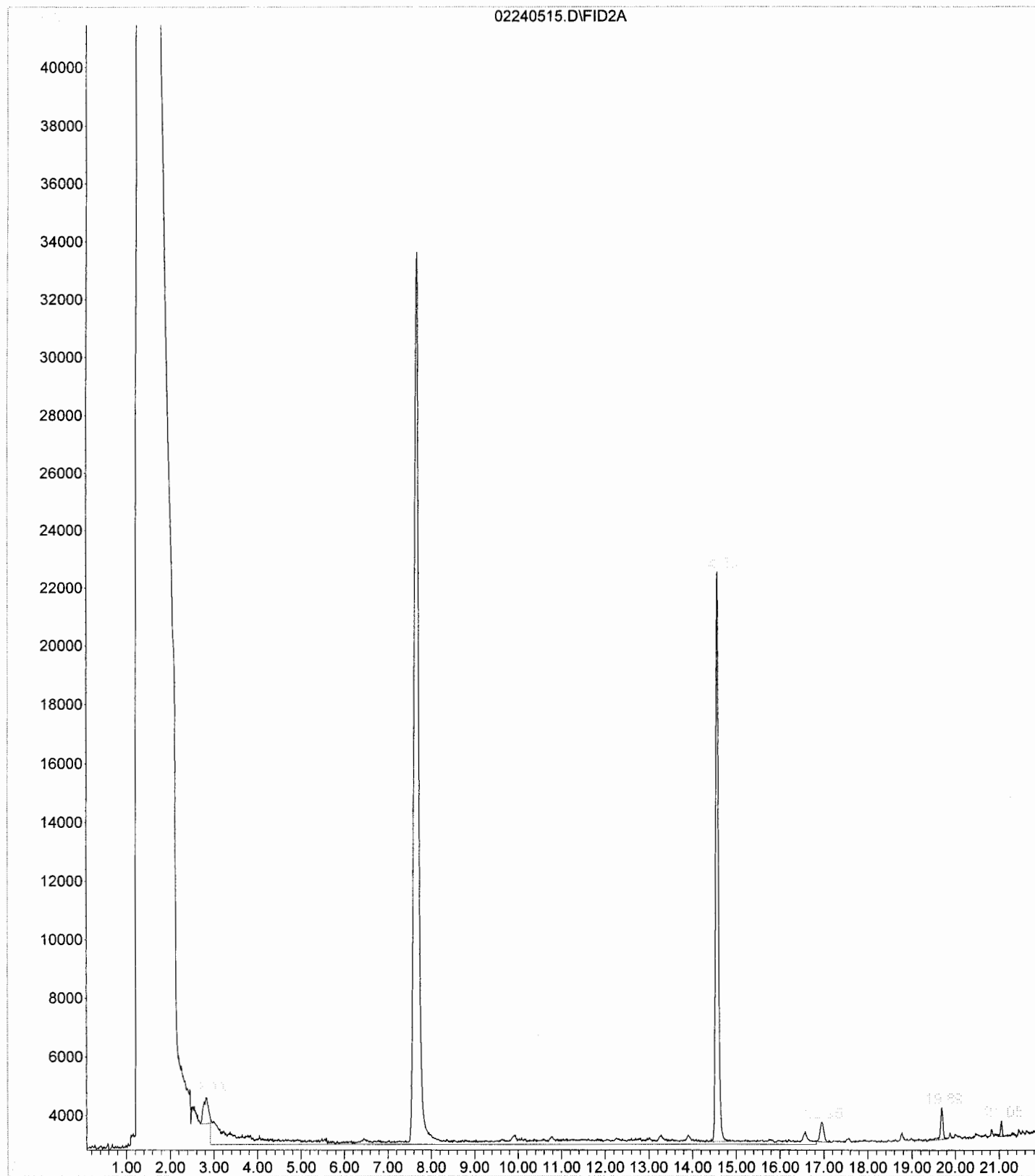
File : C:\HPCHEM\1\DATA\022405\02240513.D
Operator : DSR/BP
Acquired : 24 Feb 2005 19:50 using AcqMethod BG121904.M
Instrument : GC-2
Sample Name: GRO RT STD
Misc Info : 10uL MS4-25-07
Vial Number: 13



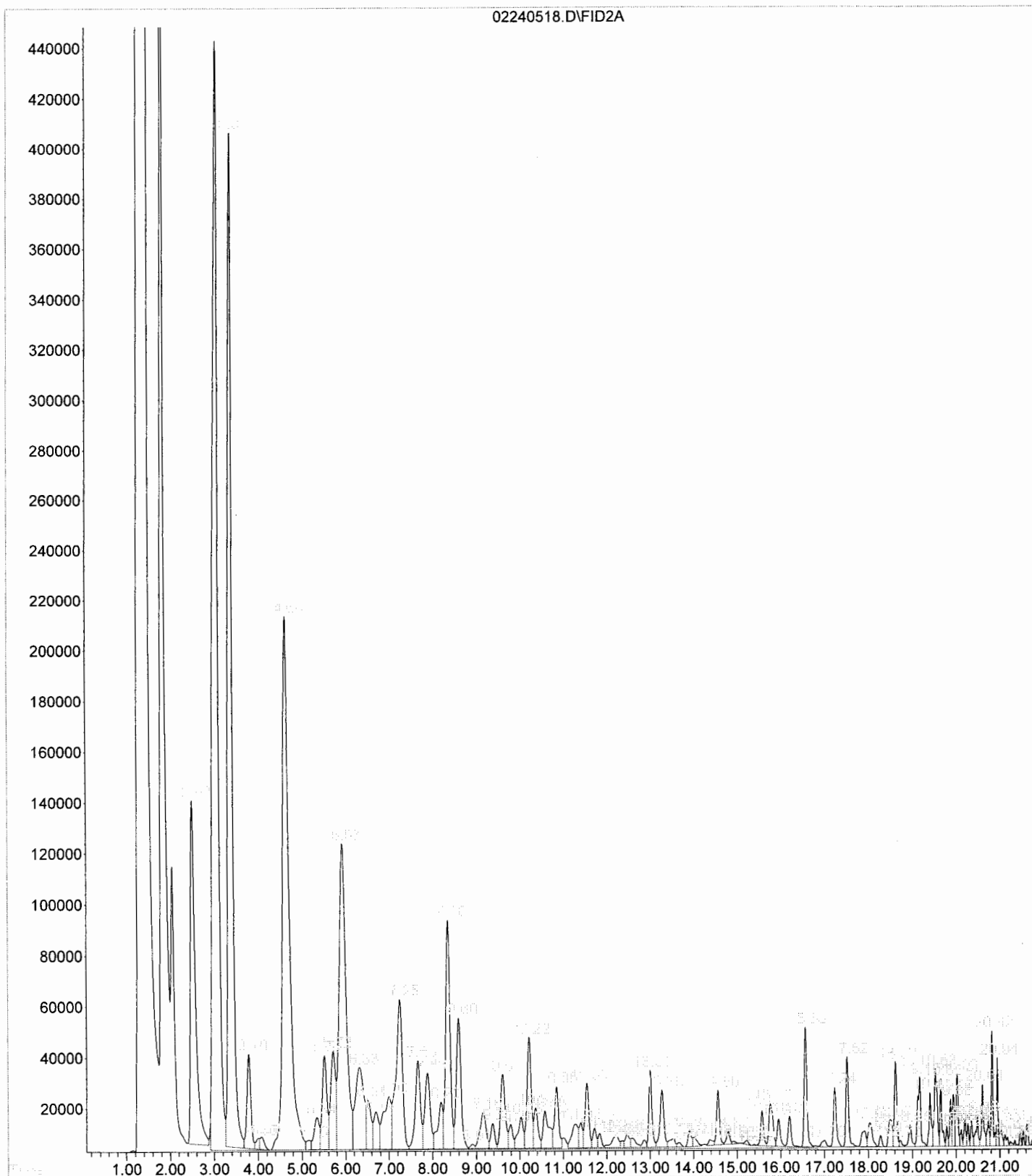
File : C:\HPCHEM\1\DATA\022405\02240514.D
Operator : DSR/BP
Acquired : 24 Feb 2005 20:21 using AcqMethod BG121904.M
Instrument : GC-2
Sample Name: GRO CCV 1000ppb
Misc Info : 10uL MS4-25-10
Vial Number: 14



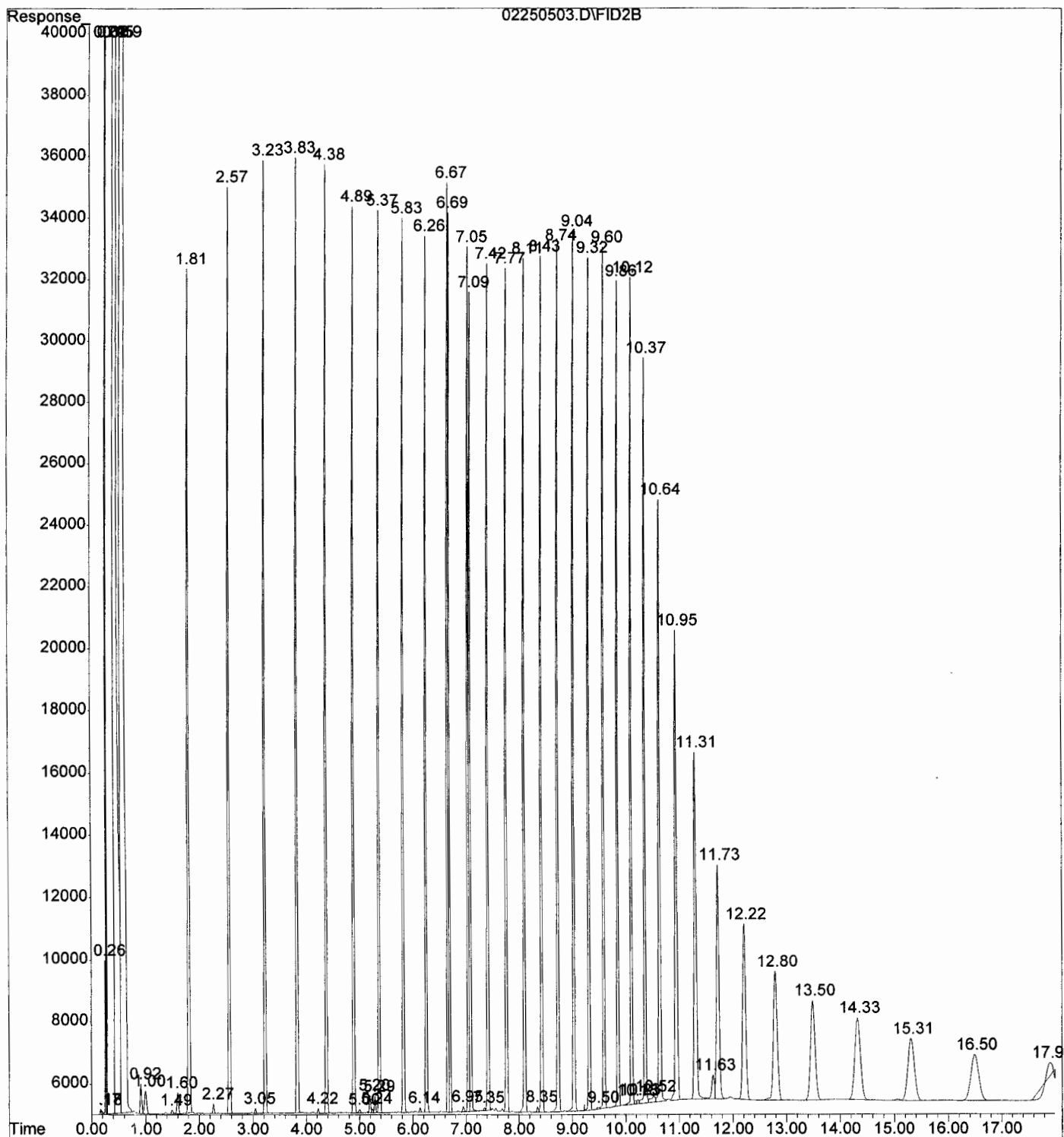
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Operator : DSR/BP
Acquired : 24 Feb 2005 20:52 using AcqMethod BG121904.M
Instrument : GC-2
Sample Name: REAGENT BLANK
Misc Info : 10uL MS4-25-12 / 10uL MS4-25-14 GRO
Vial Number: 15



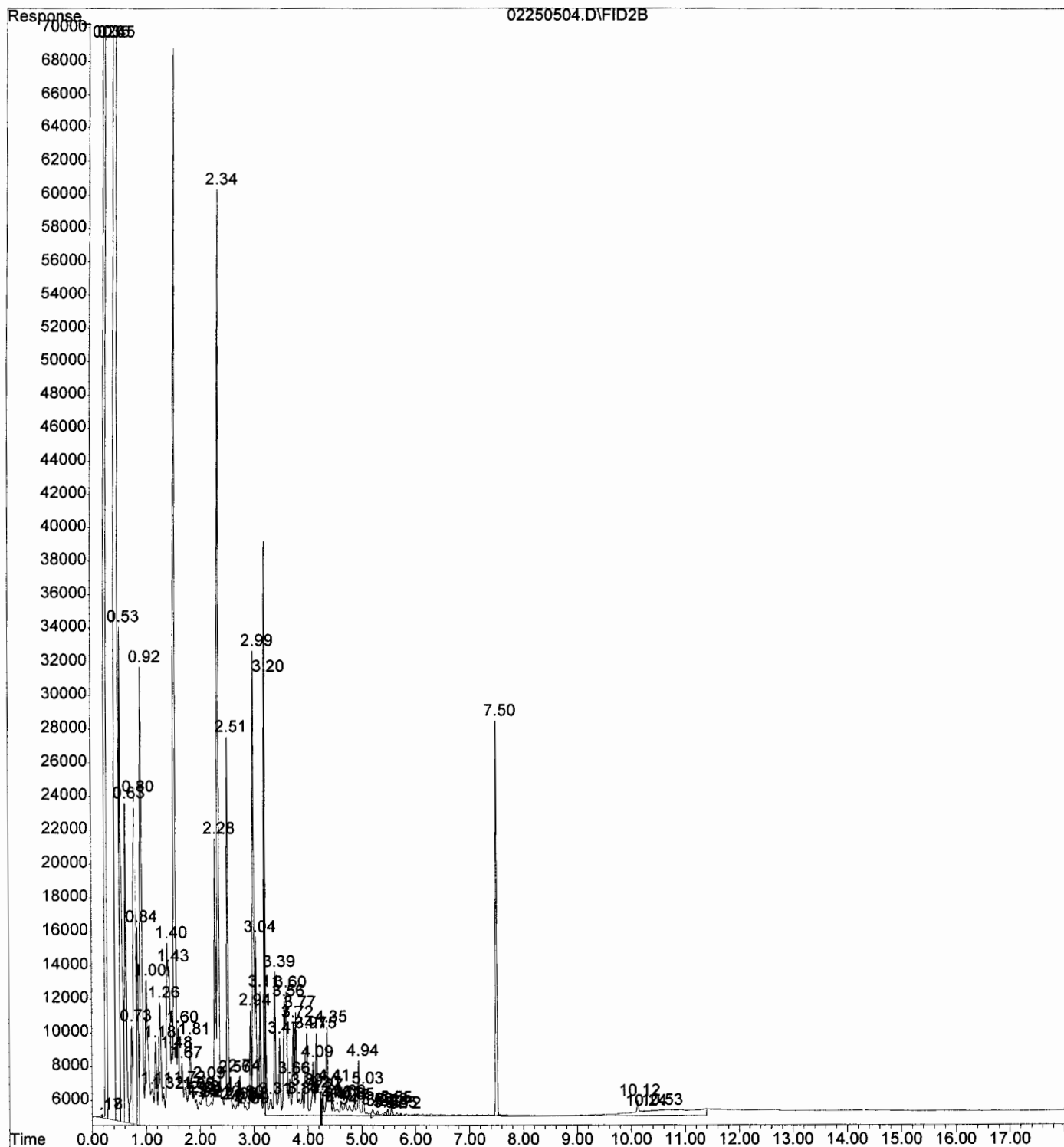
File : C:\HPCHEM\1\DATA\022405\02240518.D
Operator : DSR/BP
Acquired : 24 Feb 2005 22:26 using AcqMethod BG121904.M
Instrument : GC-2
Sample Name: 502149-01 1X
Misc Info : 5mL GRO
Vial Number: 2



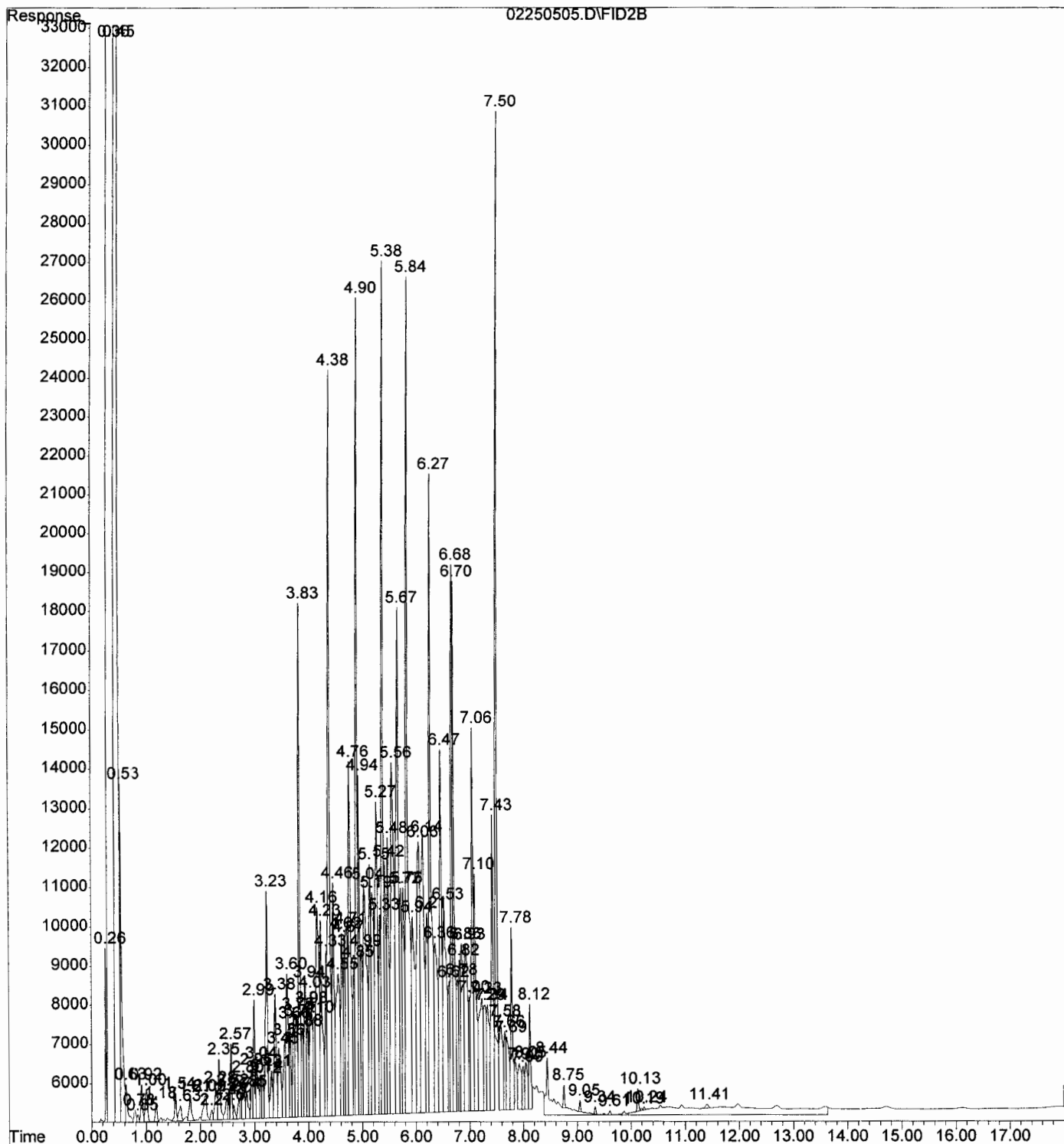
File : C:\HPCHEM\2\DATA\022505F\02250503.D
Operator : DSR
Acquired : 25 Feb 2005 10:44 using AcqMethod TPH0131.M
Instrument : FID-1
Sample Name: RT
Misc Info : GC5-10-14
Vial Number: 2



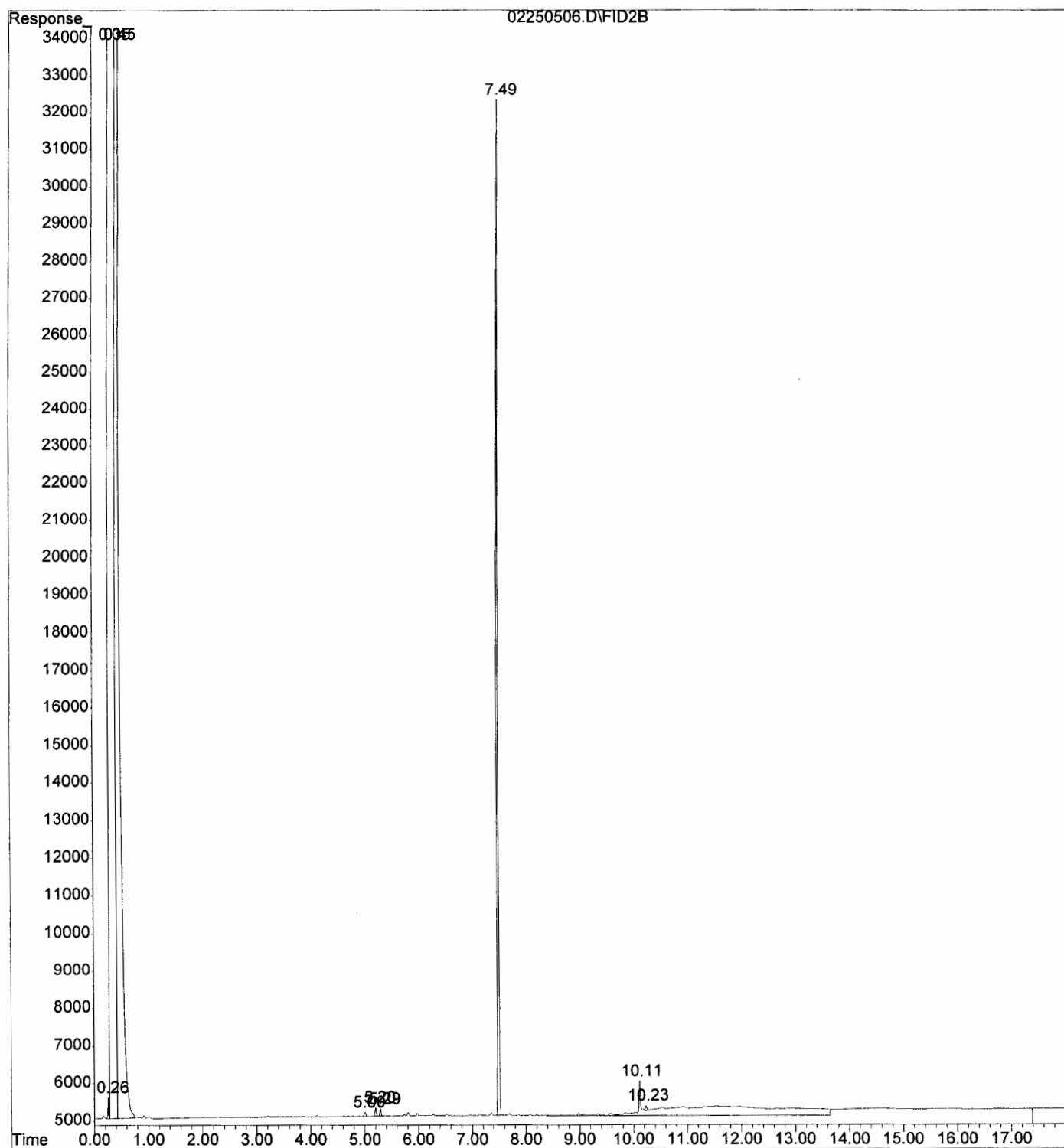
File : C:\HPCHEM\2\DATA\022505F\02250504.D
Operator : DSR
Acquired : 25 Feb 2005 11:11 using AcqMethod TPH0131.M
Instrument : FID-1
Sample Name: GRO CCV 200PPM
Misc Info : GC5-12-09
Vial Number: 3



File : C:\HPCHEM\2\DATA\022505F\02250505.D
 Operator : DSR
 Acquired : 25 Feb 2005 11:38 using AcqMethod TPH0131.M
 Instrument : FID-1
 Sample Name: DRO CCV 200PPM
 Misc Info : GC5-12-13
 Vial Number: 4



File : C:\HPCHEM\2\DATA\022505F\02250506.D
Operator : DSR
Acquired : 25 Feb 2005 12:05 using AcqMethod TPH0131.M
Instrument : FID-1
Sample Name: WRB 022505
Misc Info : 30ML/3ML 02/25
Vial Number: 5



File : C:\HPCHEM\2\DATA\022505F\02250509.D
Operator : DSR
Acquired : 25 Feb 2005 13:27 using AcqMethod TPH0131.M
Instrument : FID-1
Sample Name: 502149-01
Misc Info : 30ML/3ML 02/25
Vial Number: 8

