

FB 01



ENTERED

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

**PINNACLE
LABORATORIES**

Pinnacle Lab ID number **102102**
March 05, 2001

NMED-HWB
2044 A GALISTEO STREET
SANTA FE, NM 87505

Project Name (none)
Project Number FORT BLISS-SWMU-POND

Attention: ROBERT ATENCIO

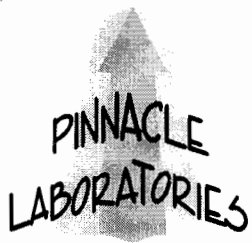
On 02/26/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

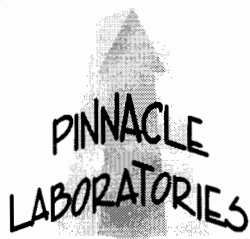
MR: jt

Enclosure



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CLIENT	: NMED-HWB	PINNACLE ID	: 102102
PROJECT #	: FORT BLISS-SWMU-POND	DATE RECEIVED	: 02/26/01
PROJECT NAME	: (none)	REPORT DATE	: 03/05/01
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
102102 - 01	1-FB	AQUEOUS	02/23/01
102102 - 02	2-FB	AQUEOUS	02/23/01



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED / 8015 GRO
CLIENT : NMED-HWB
PROJECT # : FORT BLISS-SWMU-POND
PROJECT NAME : (none)

PINNACLE I.D.: 102102

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	1-FB	AQUEOUS	02/23/01	NA	02/26/01	1

PARAMETER	DET. LIMIT	UNITS	1-FB
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FUEL HYDROCARBONS 50 UG/L < 50
HYDROCARBON RANGE C6-C14
HYDROCARBONS QUANTITATED USING GASOLINE

BENZENE 0.5 UG/L < 0.5
TOLUENE 0.5 UG/L < 0.5
ETHYLBENZENE 0.5 UG/L < 0.5
TOTAL XYLENES 0.5 UG/L < 0.5
METHYL-t-BUTYL ETHER 2.5 UG/L < 2.5

SURROGATE:
BROMOFLUOROBENZENE (%) 107
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A



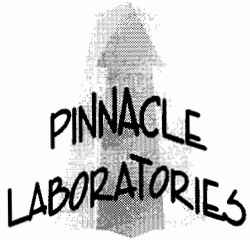
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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED / 8015 GRO	PINNACLE I.D.	: 102102
BLANK I.D.	: 022601	DATE EXTRACTED	: NA
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/26/01
PROJECT #	: FORT BLISS-SWMU-POND	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (none)		

PARAMETER	UNITS	
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C14
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		106
SURROGATE LIMITS	(80 - 120)	

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
 MSMSD

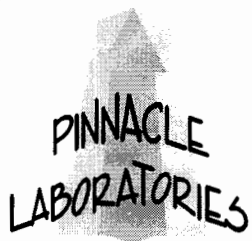
TEST	: EPA 8021 MODIFIED / 8015 GRO	PINNACLE I.D.	: 102102
MSMSD #	: 102096-01	DATE EXTRACTED	: NA
CLIENT	: NMED-HWB	DATE ANALYZED	: 02/26/01
PROJECT #	: FORT BLISS-SWMU-POND	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: (none)	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.6	98	19.9	100	2	(80 - 120)	20
TOLUENE	<0.5	20.0	18.8	94	18.7	94	1	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.5	103	20.2	101	1	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	60.4	101	59.5	99	2	(80 - 120)	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

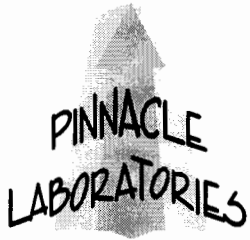
TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NMED-HWB
PROJECT # : FORT BLISS-SWMU-POND
PROJECT NAME : (none)

PINNACLE I.D.: 102102

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
02	2-FB	AQUEOUS	02/23/01	03/01/01	03/01/01	1
PARAMETER	DET. LIMIT	UNITS	2-FB			
FUEL HYDROCARBONS, C6-C10	2.0	MG/L	< 2.0			
FUEL HYDROCARBONS, C10-C22	1.0	MG/L	1.0			
FUEL HYDROCARBONS, C22-C36	1.0	MG/L	1.2			
CALCULATED SUM:			2.2			

SURROGATE:
O-TERPHENYL (%) 79
SURROGATE LIMITS (79 - 124)

CHEMIST NOTES:
N/A



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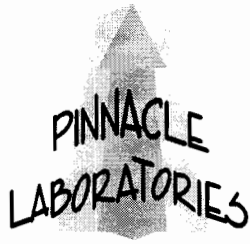
GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
BLANK I.D.	: 030101	PINNACLE I.D.	: 102102
CLIENT	: NMED-HWB	DATE EXTRACTED	: 03/01/01
PROJECT #	: FORT BLISS-SWMU-POND	DATE ANALYZED	: 03/01/01
PROJECT NAME	: (none)	SAMPLE MATRIX	: NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:
O-TERPHENYL (%) 86
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
 MSMSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 102102
MSMSD #	: 030101	DATE EXTRACTED	: 03/01/01
CLIENT	: NMED-HWB	DATE ANALYZED	: 03/01/01
PROJECT #	: FORT BLISS-SWMU-POND	SAMPLE MATRIX	: Aqueous
PROJECT NAME	: (none)	UNITS	: MG/L

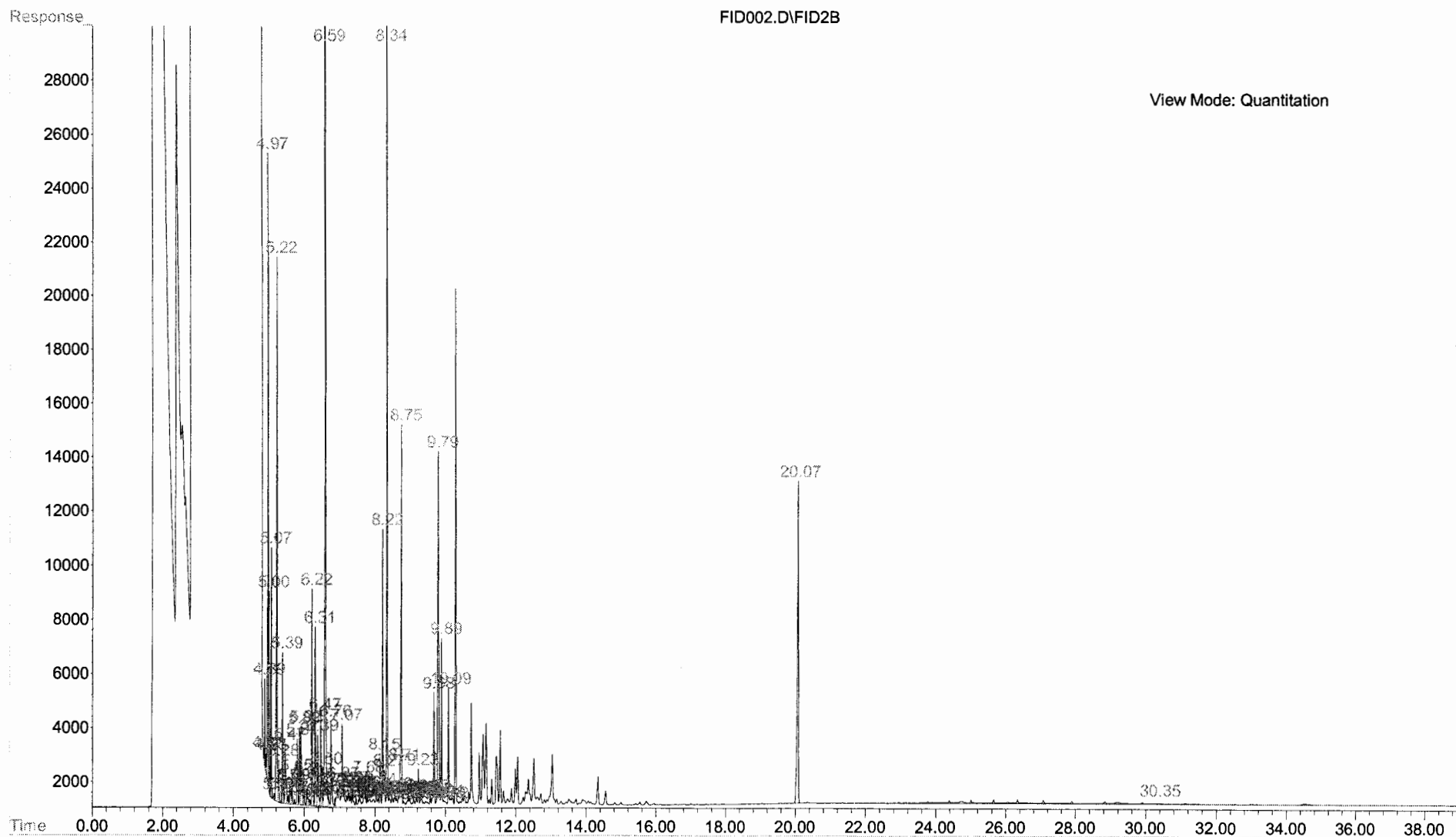
PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<1.0	33.3	30.2	91	32.3	97	7	(64 - 127)	20

CHEMIST NOTES:
 N/A

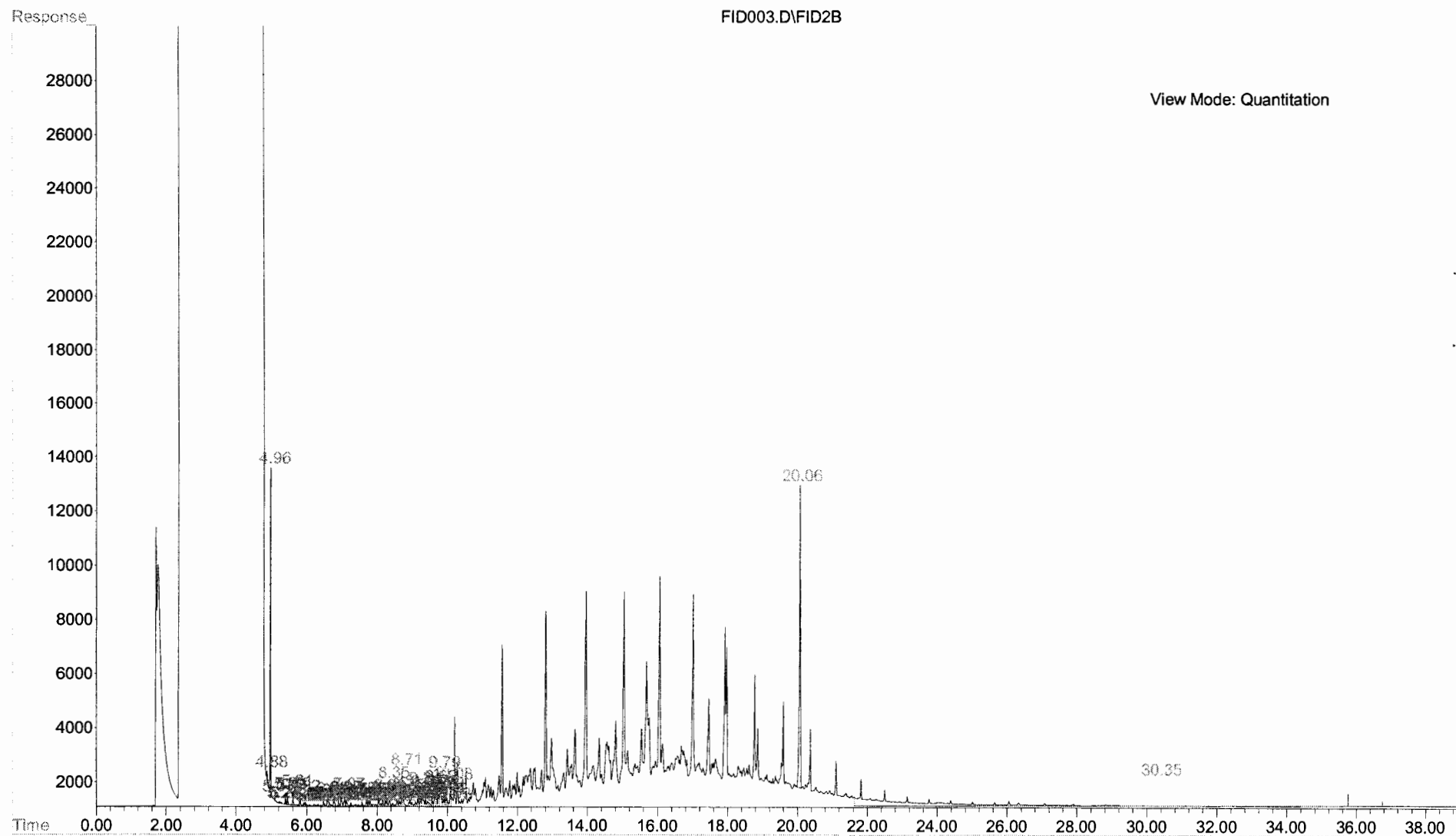
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

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

File : C:\HPCHEM\2\DATA\030101\FID002.D
Operator :
Acquired : 1 Mar 2001 10:30 using AcqMethod NM1108FR.M
Instrument : FID-1
Sample Name: gas ccv
Misc Info :
Vial Number: 2



File : C:\HPCHEM\2\DATA\030101\FID003.D
Operator :
Acquired : 1 Mar 2001 11:22 using AcqMethod NM1108FR.M
Instrument : FID-1
Sample Name: dsl ccv
Misc Info :
Vial Number: 3



File : F:\HPCHEM\2\DATA\110500\FID005.D

Operator :

Acquired : 5 Nov 2000 12:39

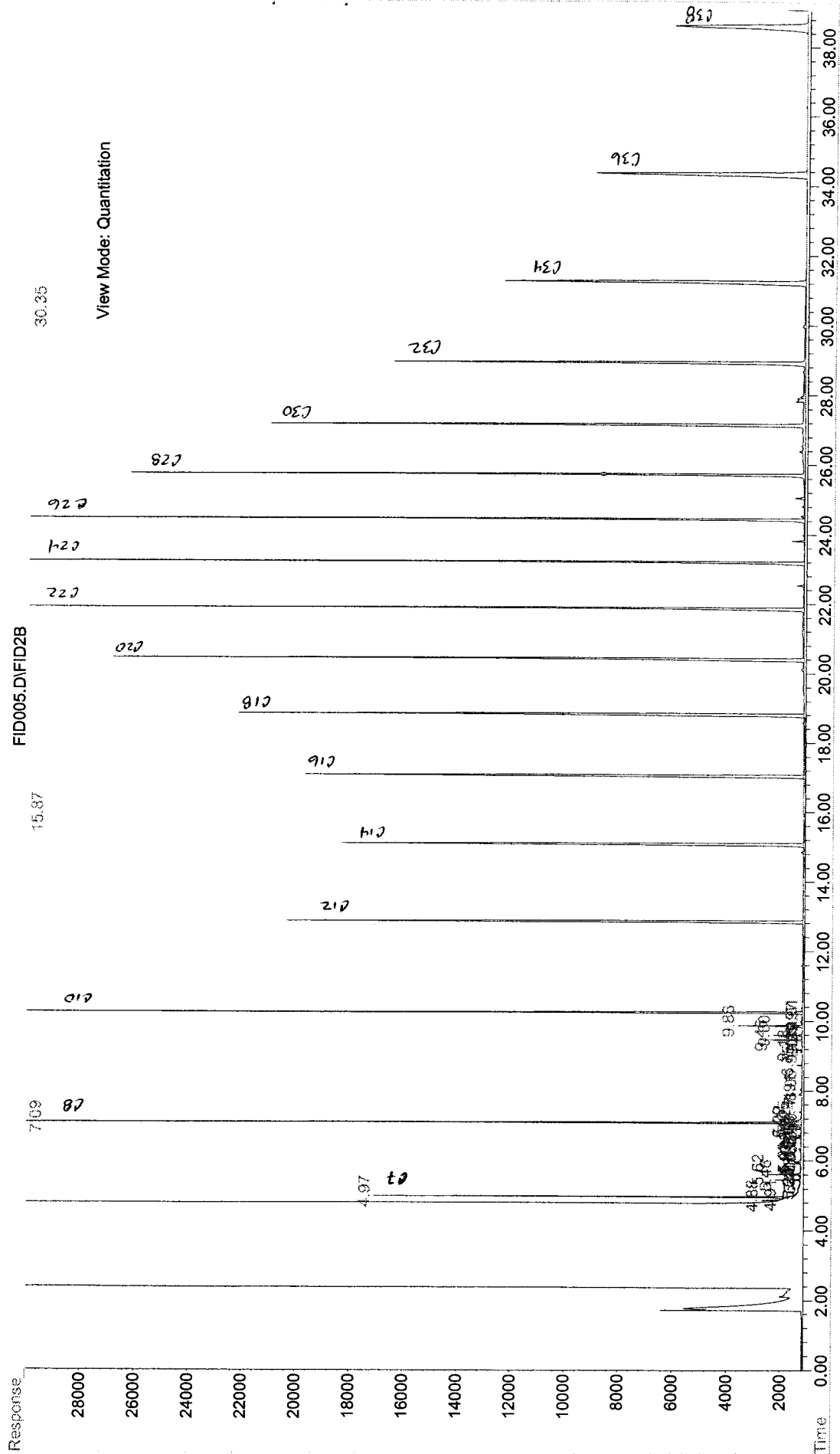
Instrument : FID-1

Sample Name: rt std c8 to c36

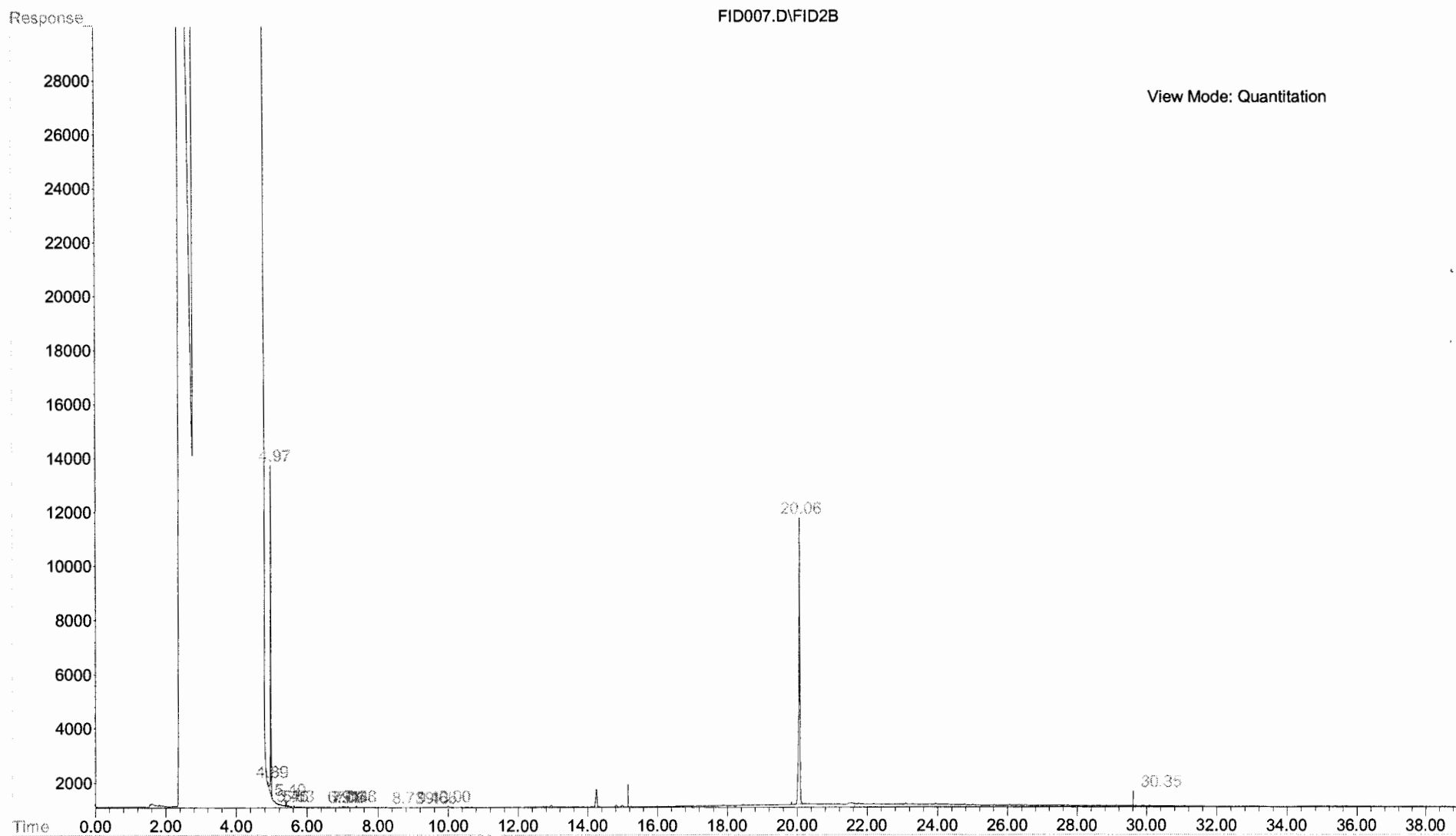
Misc Info :

Vial Number: 5

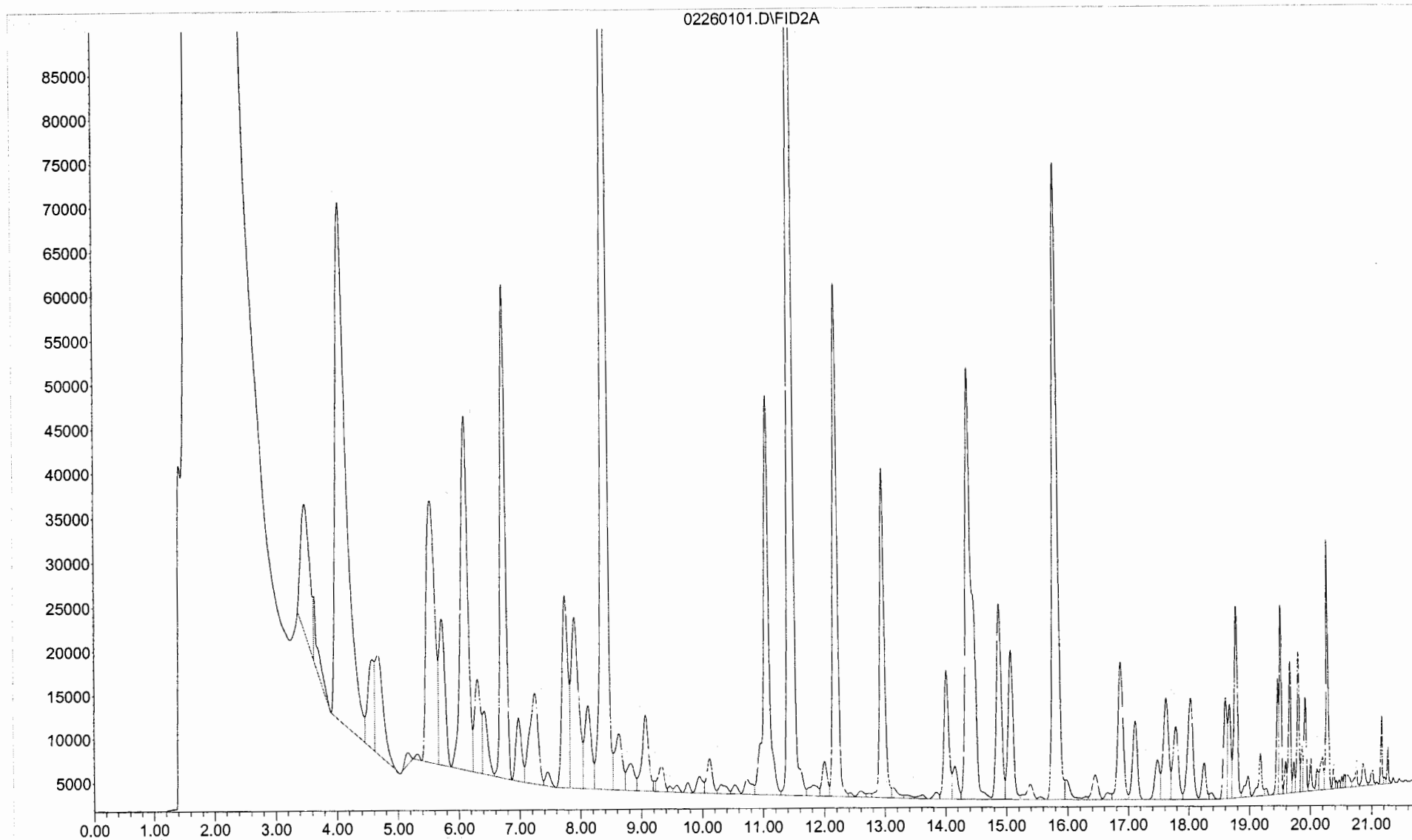
using AcqMethod NM0902FR.M



File : C:\HPCHEM\2\DATA\030101\FID007.D
Operator :
Acquired : 1 Mar 2001 15:15 using AcqMethod NM1108FR.M
Instrument : FID-1
Sample Name: 102102-02
Misc Info :
Vial Number: 7



File : C:\HPCHEM\1\DATA\022601\02260101.D
Operator :
Acquired : 26 Feb 2001 11:42 using AcqMethod BTEX0103.M
Instrument : GC-2
Sample Name: gas ccv
Misc Info :
Vial Number: 1



File : C:\HPCHEM\1\DATA\022601\02260113.D
Operator :
Acquired : 26 Feb 2001 17:01 using AcqMethod BTEX0103.M
Instrument : GC-2
Sample Name: 102102-01
Misc Info :
Vial Number: 11

02260113.D\FID2A

