

MEMORANDUM

TO: Nina Antonio – DTSC
Susan Hugo – ACHCSA
FROM: Ann Holbrow and Susan (Mull) Gallardo
CC: Kathleen Isaacson
Hugh Murphy
SUBJECT: Laboratory Data Sheets for Additional Sampling at Occupied Lots
Canterbury Residential Development

Enclosed you will find four laboratory data packages containing the analytical results for sampling conducted at the occupied lots in the Canterbury Residential Development. The data packages correspond to the three days that samples were collected (September 28, October 24, and October 26) and a subsequent request to analyze samples placed on hold that were collected on October 26.

\\sf3\deptdata\Project\6000s\6262\Occupied Lots\Data Memo2.doc

CHAIN-OF-CUSTODY RECORD

№ 0902

Date: 9/28/00

Page 1 of 1

Project No.: 6262

ANALYSES

REMARKS

Samplers (Signatures):

Bryan Turner

EPA Method 8010

EPA Method 8020

EPA Method 8020
(BTEX only)

EPA Method 8240

EPA Method 8270

TPH as gasoline

TPH as diesel

TPH as gasoline

TPH as diesel

USEPA meth

USEPA meth

USEPA meth

USEPA meth

USEPA meth

USEPA meth

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USEPA meth

Cooled

Soil (S), Water (W),
or Vapor (V)

Acidified

Number of containers

Additional Comments

2"x6" brass soil sample tube



BAT

BAT

F+B

Turnaround time:

Standard

Results to:

Ann Holbrow

Total No. of containers:

3

Relinquished by (signature):

Bryan Turner

Printed Name:

Bryan Turner

Company:

Geomatrix

Date:

9/29/00

Time:

1030

Relinquished by (signature):

Printed Name:

Company:

Date:

Time:

Relinquished by (signature):

Printed Name:

Company:

Date:

Time:

Method of Shipment:

FEDEX

Laboratory Comments and Log No.:

Received by (signature):

Eric Young

Printed Name:

ERIC YOUNG

Company:

F+B

Date:

9/29/00

Time:

951

Received by (signature):

Printed Name:

Company:

Date:

Time:

Received by (signature):

Printed Name:

Company:

Date:

Time:



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

October 13, 2000

Ann Holbrow, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

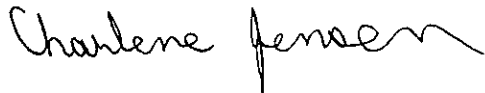
Dear Ms. Holbrow:

Included are the results from the testing of material submitted on October 2, 2000 from your 6262 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Jensen
Chemist

Enclosures
GMC1013R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 2, 2000 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 6262 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants, Inc.</u>
010001-01	GMX-TRN-21A-1.0
010001-02	GMX-TRN-42A-1.0
010001-03	GMX-TRN-45A-1.0

All quality control requirements were within acceptable limits.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/00

Date Received: 10/02/00

Project: 6262

Date Extracted: 10/2/00

Date Analyzed: 10/4/00

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Results Reported on a Dry Weight Basis

Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX-TRN-21A-1.0 010001-01	1,200 d	89
GMX-TRN-42A-1.0 010001-02	1,000 d	94
GMX-TRN-45A-1.0 010001-03	1,900 d	90
Method Blank	<50	101

d - The sample was diluted. Surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-21A-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/02/00	Project: 6262
Date Extracted: 10/03/00	Lab ID: 010001-01 1/10
Date Analyzed: 10/05/00	Data File: 100433.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	87	31	123
Benzo(a)anthracene-d12	95	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	64

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-42A-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/02/00	Project: 6262
Date Extracted: 10/03/00	Lab ID: 010001-02
Date Analyzed: 10/05/00	Data File: 100442.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	64	31	123
Benzo(a)anthracene-d12	81	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	13
Anthracene	6
Fluoranthene	19
Pyrene	26
Benz(a)anthracene	43
Chrysene	69
Benzo(b)fluoranthene	46
Benzo(k)fluoranthene	35
Benzo(a)pyrene	42
Indeno(1,2,3-cd)pyrene	14
Dibenzo(a,h)anthracene	11
Benzo(g,h,i)perylene	19

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-45A-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/02/00	Project: 6262
Date Extracted: 10/03/00	Lab ID: 010001-03 1/10
Date Analyzed: 10/05/00	Data File: 100434.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	80	31	123
Benzo(a)anthracene-d12	89	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: Method Blank	Client: Geomatrix Consultants, Inc.
Date Received: 10/02/00	Project: 6262
Date Extracted: 10/03/00	Lab ID: mb 00-651
Date Analyzed: 10/04/00	Data File: 100414.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	62	31	123
Benzo(a)anthracene-d12	81	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/00

Date Received: 10/02/00

Project: 6262

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	250	97	106	60-120	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/00

Date Received: 10/02/00

Project: 6262

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM**

Laboratory Code: 009123-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthylene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthene	µg/kg (ppb)	<5	<5	nm	0-20
Fluorene	µg/kg (ppb)	22	16	32 a	0-20
Phenanthrene	µg/kg (ppb)	14	11	24 a	0-20
Anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Chrysene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<5	<5	nm	0-20

Laboratory Code: 009123-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<5	82	81	56-117	1
Acenaphthylene	µg/kg (ppb)	170	<5	87	88	59-115	1
Acenaphthene	µg/kg (ppb)	170	<5	96	94	59-114	1
Fluorene	µg/kg (ppb)	170	<5	93	91	61-113	2
Phenanthrene	µg/kg (ppb)	170	<5	84	89	51-122	5
Anthracene	µg/kg (ppb)	170	<5	80	86	50-116	7
Fluoranthene	µg/kg (ppb)	170	<5	86	91	52-124	6
Pyrene	µg/kg (ppb)	170	<5	85	90	49-124	6
Benz(a)anthracene	µg/kg (ppb)	170	<5	84	88	50-122	5
Chrysene	µg/kg (ppb)	170	<5	83	87	48-121	6
Benzo(b)fluoranthene	µg/kg (ppb)	170	<5	99	104	52-144	5
Benzo(k)fluoranthene	µg/kg (ppb)	170	<5	88	92	55-135	5
Benzo(a)pyrene	µg/kg (ppb)	170	<5	88	95	49-128	8
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<5	98	105	37-132	8
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<5	102	111	37-136	8
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<5	101	109	28-132	8

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/00

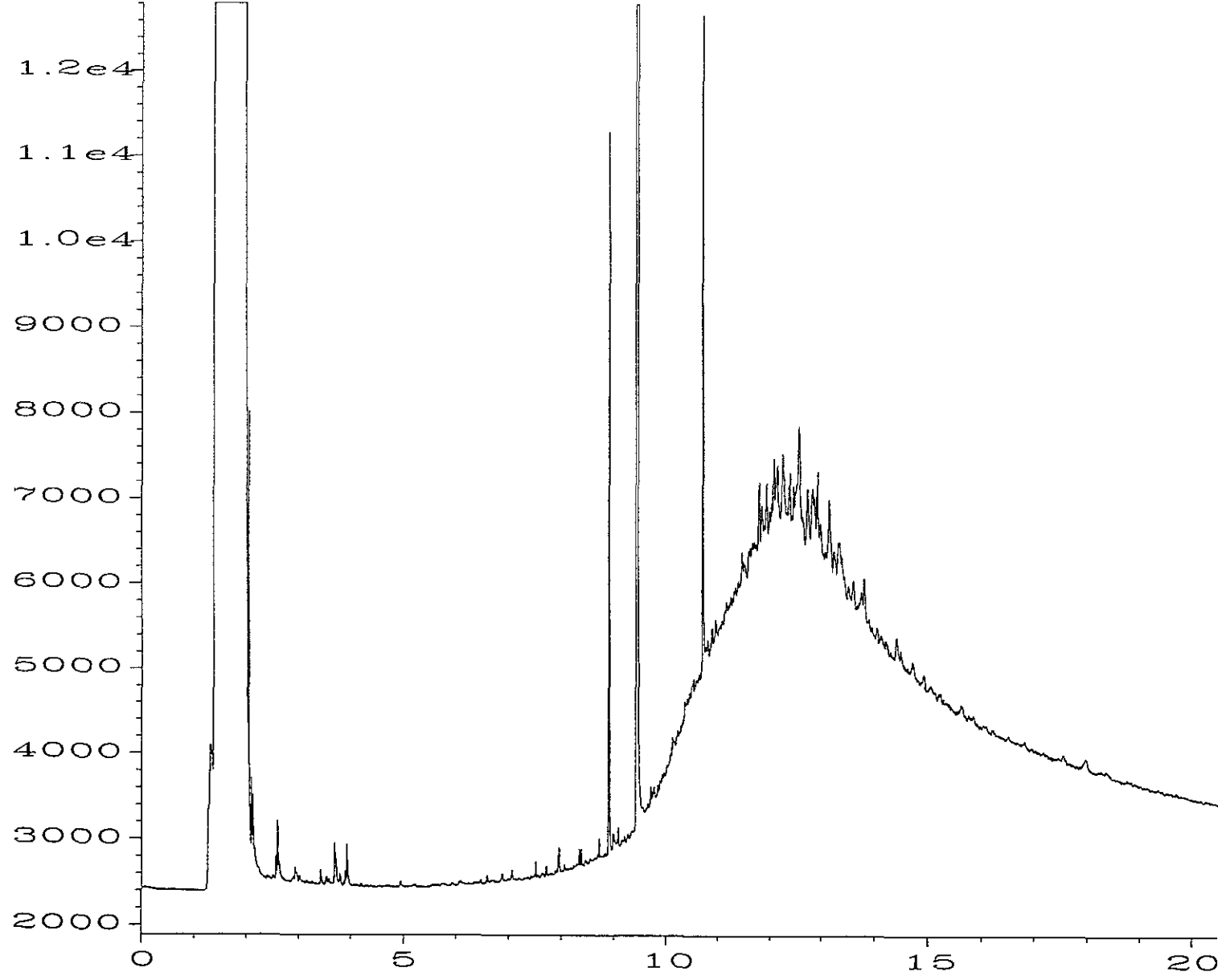
Date Received: 10/02/00

Project: 6262

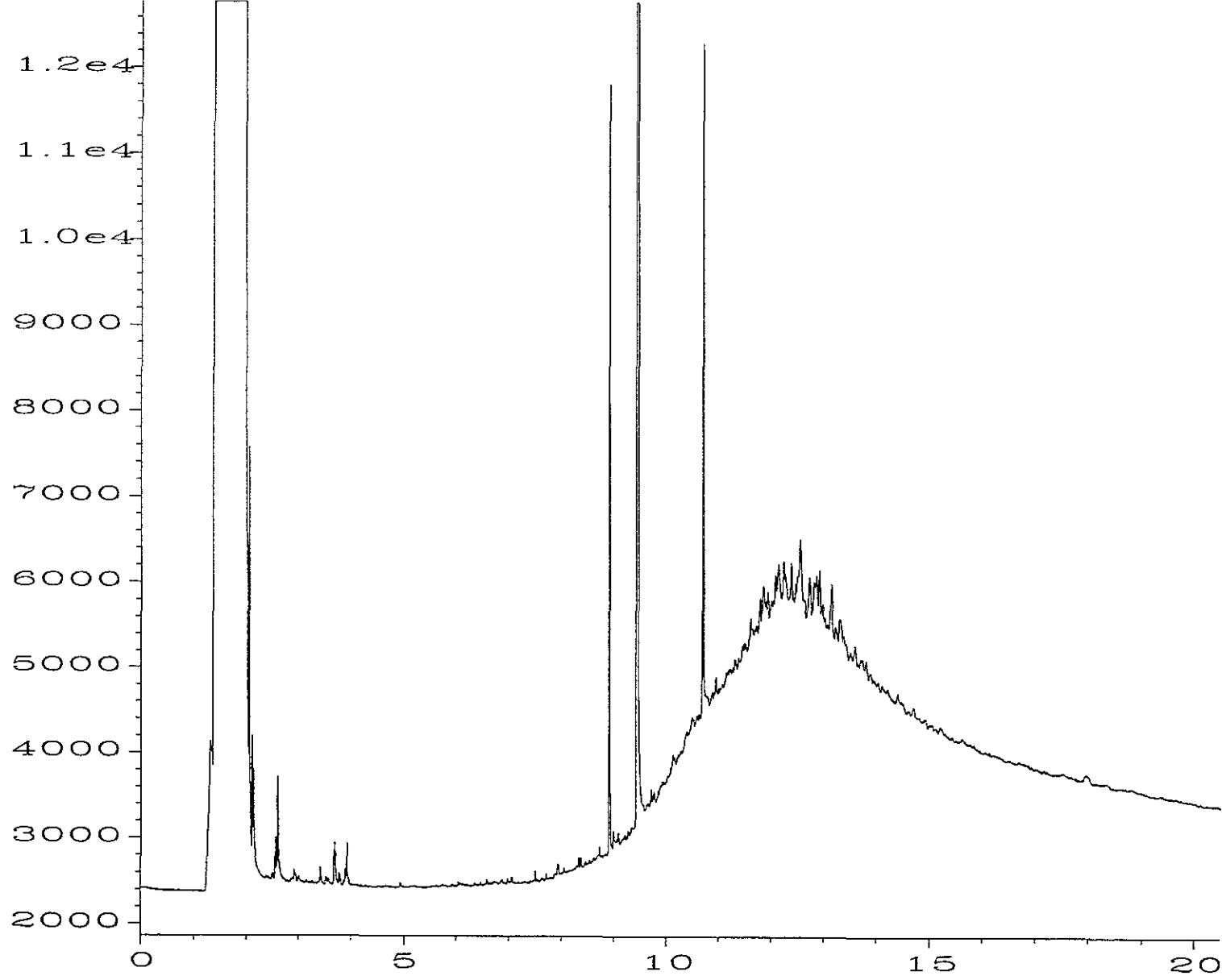
**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM**

Laboratory Code: Laboratory Control Sample

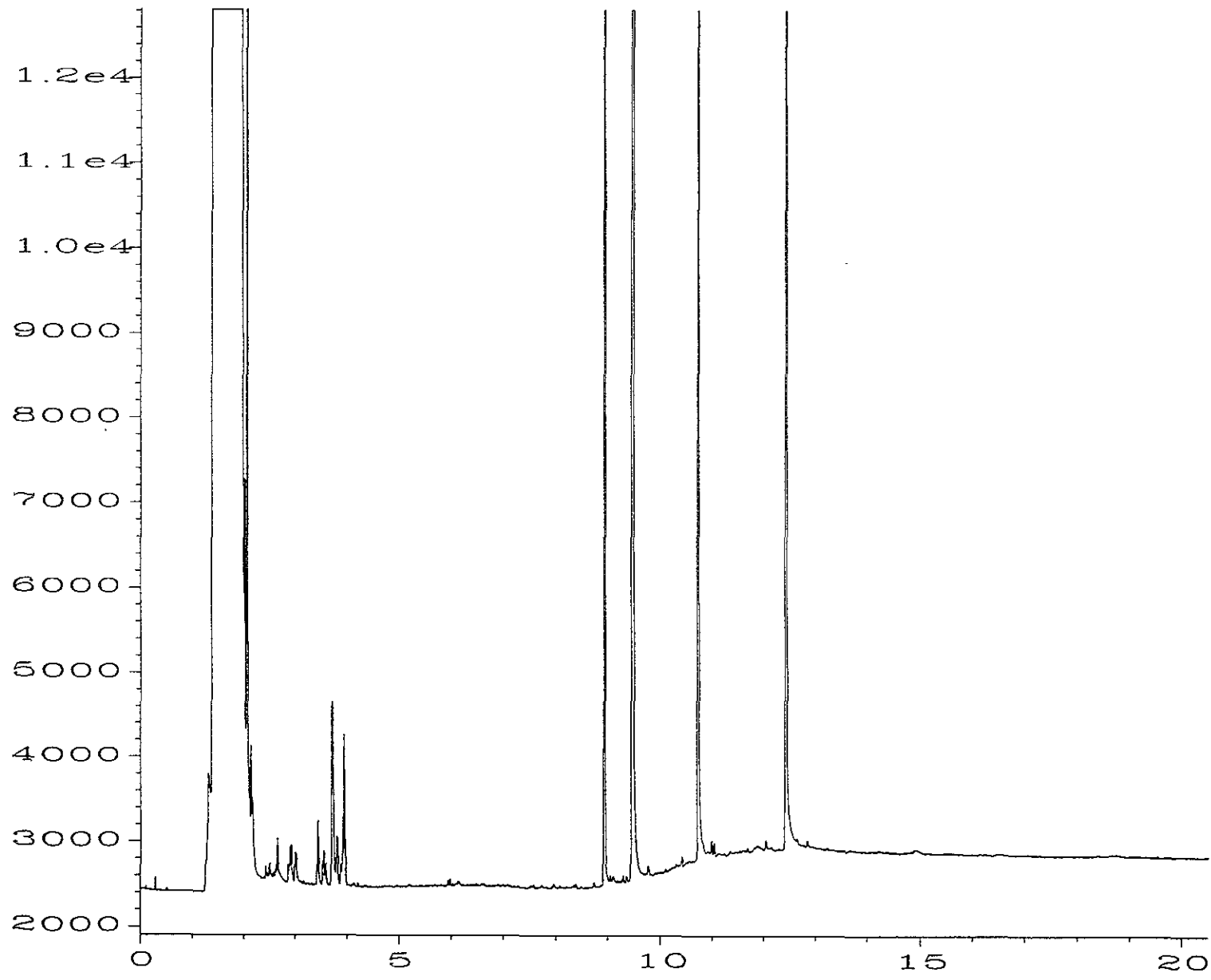
Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	68	77	58-121	12
Acenaphthylene	µg/kg (ppb)	170	79	85	54-122	8
Acenaphthene	µg/kg (ppb)	170	78	85	58-119	9
Fluorene	µg/kg (ppb)	170	81	88	57-122	8
Phenanthrene	µg/kg (ppb)	170	76	82	57-123	8
Anthracene	µg/kg (ppb)	170	68	75	44-125	10
Fluoranthene	µg/kg (ppb)	170	80	87	54-127	8
Pyrene	µg/kg (ppb)	170	80	86	56-123	7
Benz(a)anthracene	µg/kg (ppb)	170	73	79	50-124	8
Chrysene	µg/kg (ppb)	170	76	82	51-122	7
Benzo(b)fluoranthene	µg/kg (ppb)	170	89	98	44-149	10
Benzo(k)fluoranthene	µg/kg (ppb)	170	80	87	52-140	7
Benzo(a)pyrene	µg/kg (ppb)	170	70	77	42-129	10
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	81	89	48-134	9
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	84	91	49-136	8
Benzo(g,h,i)perylene	µg/kg (ppb)	170	82	89	46-134	9



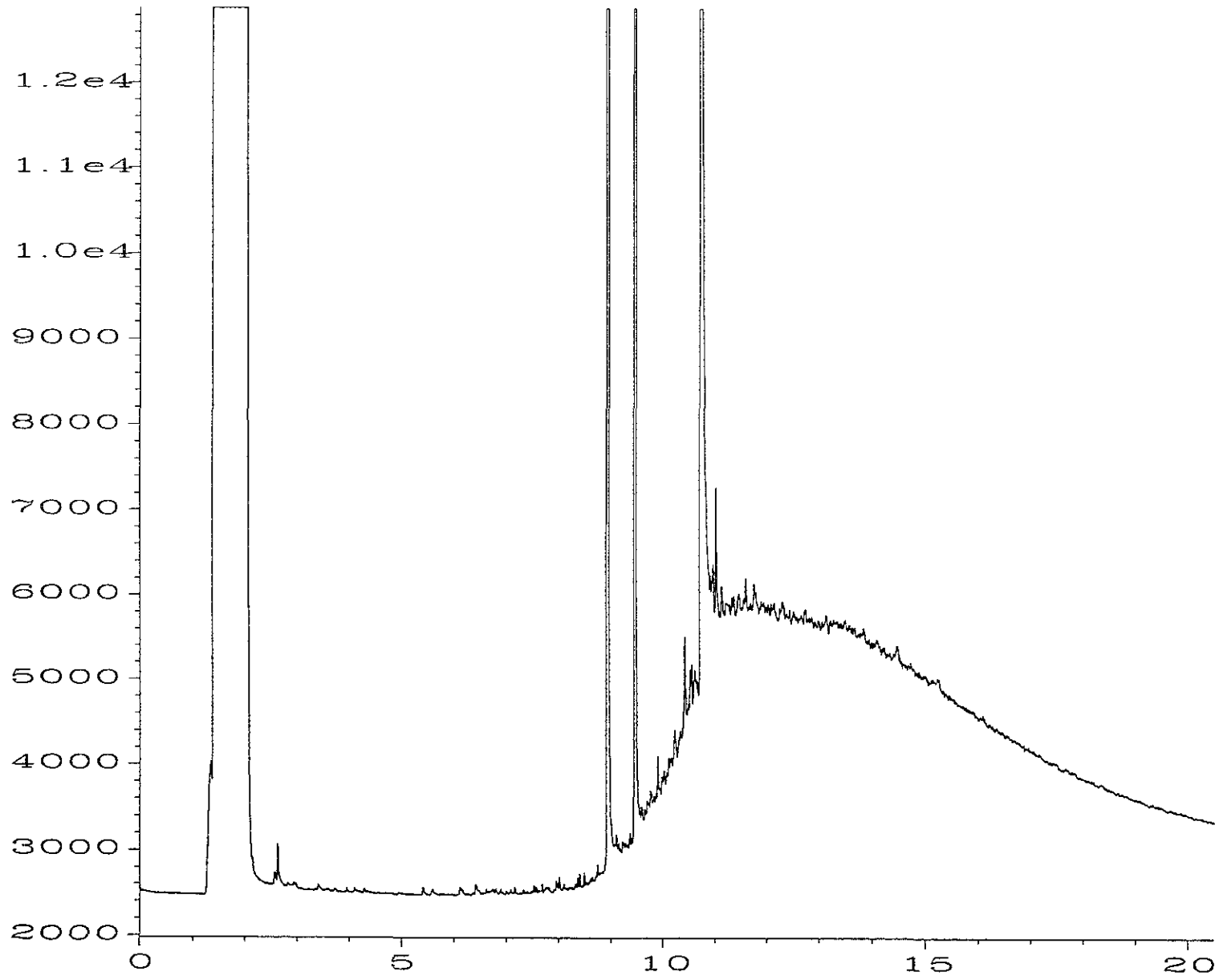
Data File Name	: H:\HPCHEM\6\DATA\10-04-00\008F0601.D	Page Number	: 1
Operator	: ME	Vial Number	: 8
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 010001-01 1:5	Sequence Line	: 6
Run Time Bar Code:		Instrument Method	: TPHDX.MTH
Acquired on	: 04 Oct 00 02:37 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	16 Jan 09 10:55 AM		



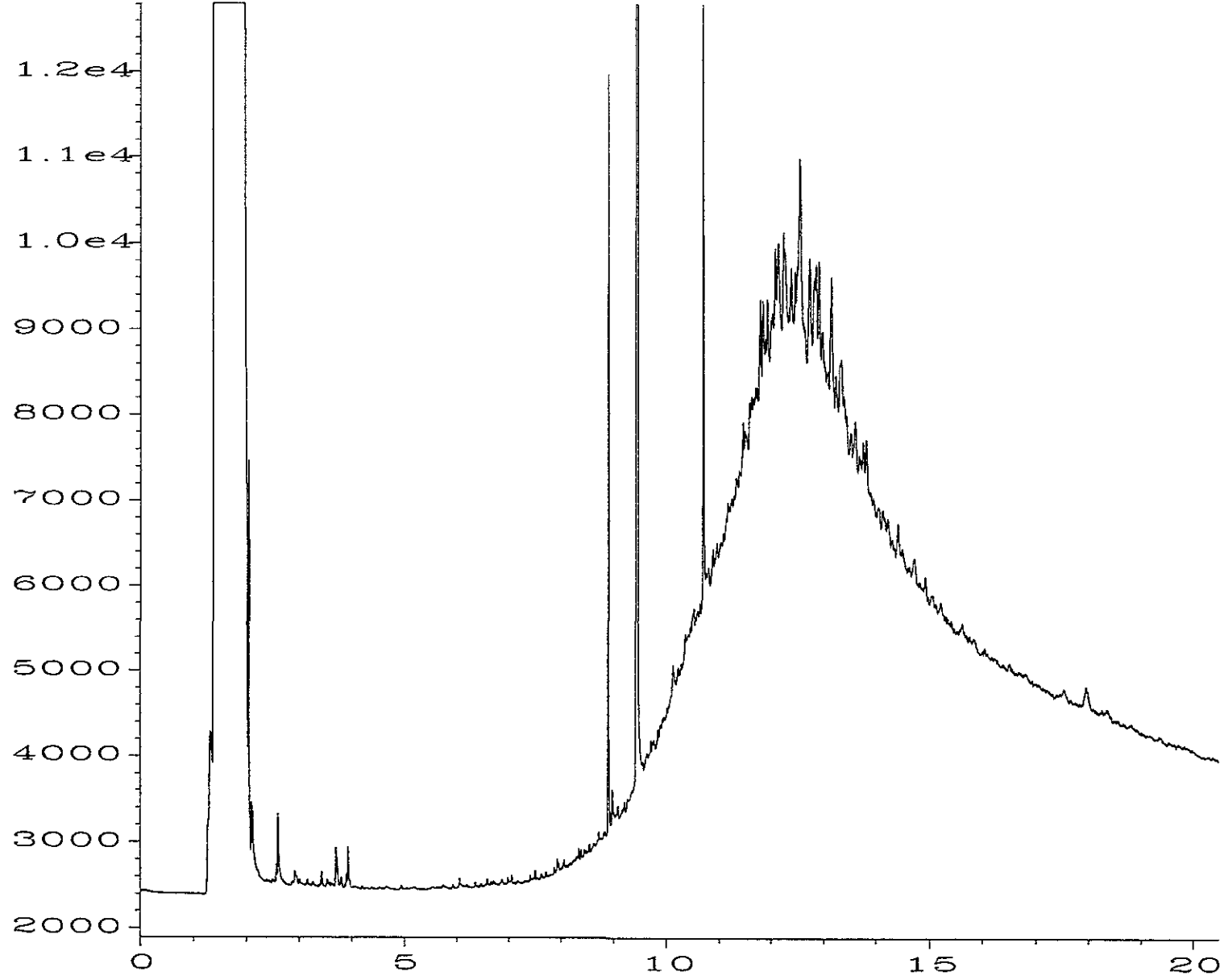
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Operator	: ME	Vial Number	: 9
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 010001-02 1:5	Sequence Line	: 6
Run Time Bar Code:		Instrument Method	: TPHDX.MTH
Acquired on	: 04 Oct 00 03:04 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	16 Jan 09 10:56 AM		



Data File Name	: H:\HPCHEM\6\DATA\10-03-00\006F0601.D	Page Number	: 1
Operator	: ME	Vial Number	: 6
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 00-645 mb	Sequence Line	: 6
Run Time Bar Code:		Instrument Method	: TPHDX.MTH
Acquired on	: 03 Oct 00 11:54 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	16 Jan 09 10:57 AM		



Data File Name	: H:\HPCHEM\6\DATA\10-03-00\004F0401.D	Page Number	: 1
Operator	: ME	Vial Number	: 4
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 500 MO 9-109	Sequence Line	: 4
Run Time Bar Code:		Instrument Method	: TPHDX.MTH
Acquired on	: 03 Oct 00 09:15 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	16 Jan 09 10:57 AM		



Data File Name	: H:\HPCHEM\6\DATA\10-04-00\010F0601.D	Page Number	: 1
Operator	: ME	Vial Number	: 10
Instrument	: GC #6	Injection Number	: 1
Sample Name	: 010001-03 1:5	Sequence Line	: 6
Run Time Bar Code:		Instrument Method	: TPHDX.MTH
Acquired on	: 04 Oct 00 03:30 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	16 Jan 09 10:56 AM		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 27, 2000

Ann Holbrow, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Ms. Holbrow:

Included are the results from the additional testing of material submitted on October 27, 2000 from your 6262 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Jensen
Chemist

Enclosures
GMC1127R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses additional testing of samples received on October 27, 2000 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 6262 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants, Inc.</u>
010157-13	GMX-TRN-44B-1.5
010157-14	GMX-TRN-44D-1.0
010157-15	GMX-TRN-44B-3.5
010157-16	GMX-TRN-44C-1.0

As requested the portions used for analysis of sample GMX-TRN-44B-1.5 were taken from the opposite end of the sampling tube than that used for the previous analysis of the sample.

As discussed, samples were analyzed outside of normal holding time. All other quality control requirements were within acceptable limits.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/27/00
Date Received: 10/27/00
Project: 6262
Date Extracted: 11/20/00
Date Analyzed: 11/22/00

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M
Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX-TRN-44B-1.5 010157-13	320	95
GMX-TRN-44D-1.0 d 010157-14	1,200	85
GMX-TRN-44B-3.5 010157-15	130	94
GMX-TRN-44C-1.0 010157-16	150	99
Method Blank	<50	90

d - The sample was diluted. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-44B-1.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/20/00	Lab ID: 010157-13
Date Analyzed: 11/22/00	Data File: 112136.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	76	31	123
Benzo(a)anthracene-d12	87	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	11
Anthracene	<5
Fluoranthene	19
Pyrene	25
Benz(a)anthracene	9
Chrysene	15
Benzo(b)fluoranthene	13
Benzo(k)fluoranthene	11
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-44D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/20/00	Lab ID: 010157-14 1/10
Date Analyzed: 11/22/00	Data File: 112133.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	134 vo	31	123
Benzo(a)anthracene-d12	84	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-44B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/20/00	Lab ID: 010157-15 1/10
Date Analyzed: 11/22/00	Data File: 112134.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	154 vo	31	123
Benzo(a)anthracene-d12	79	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-44C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/20/00	Lab ID: 010157-16 1/10
Date Analyzed: 11/22/00	Data File: 112135.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	187 vo	31	123
Benzo(a)anthracene-d12	78	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	71
Pyrene	81
Benz(a)anthracene	55
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: Method Blank
 Date Received: 10/27/00
 Date Extracted: 11/20/00
 Date Analyzed: 11/22/00
 Matrix: Soil
 Units: ug/kg (ppb)

Client: Geomatrix Consultants, Inc.
 Project: 6262
 Lab ID: mb 00-763
 Data File: 112131.D
 Instrument: GCMS3
 Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	80	31	123
Benzo(a)anthracene-d12	71	47	157

Compounds: Concentration:
 ug/kg (ppb)

Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/27/00

Date Received: 10/27/00

Project: 6262

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: 010157-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Motor Oil	µg/g (ppm)	250	130	89	65-135

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	250	67	70	65-135	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/27/00

Date Received: 10/27/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: 010157-15 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<50	<50	nm	0-20
Acenaphthylene	µg/kg (ppb)	<50	<50	nm	0-20
Acenaphthene	µg/kg (ppb)	<50	<50	nm	0-20
Fluorene	µg/kg (ppb)	<50	<50	nm	0-20
Phenanthrene	µg/kg (ppb)	<50	<50	nm	0-20
Anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Chrysene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<50	<50	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<50	<50	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<50	<50	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	73	69	58-121	5
Acenaphthylene	µg/kg (ppb)	170	92	89	54-122	3
Acenaphthene	µg/kg (ppb)	170	89	87	58-119	3
Fluorene	µg/kg (ppb)	170	75	75	57-122	0
Phenanthrene	µg/kg (ppb)	170	77	78	57-123	2
Anthracene	µg/kg (ppb)	170	93	86	44-125	7
Fluoranthene	µg/kg (ppb)	170	90	90	54-127	0
Pyrene	µg/kg (ppb)	170	91	90	56-123	1
Benz(a)anthracene	µg/kg (ppb)	170	79	79	50-124	0
Chrysene	µg/kg (ppb)	170	76	77	51-122	2
Benzo(b)fluoranthene	µg/kg (ppb)	170	78	78	44-149	1
Benzo(k)fluoranthene	µg/kg (ppb)	170	107	111	52-140	4
Benzo(a)pyrene	µg/kg (ppb)	170	85	80	42-129	5
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	79	80	48-134	2
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	77	79	49-136	2
Benzo(g,h,i)perylene	µg/kg (ppb)	170	72	74	46-134	2

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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November 10, 2000

Ann Holbrow, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

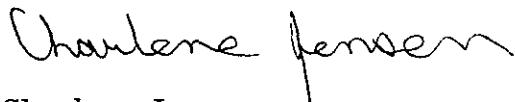
Dear Ms. Holbrow:

Included are the results from the testing of material submitted on October 27, 2000 from your 6262 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Jensen
Chemist

Enclosures
GMC1110R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2000 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 6262 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants, Inc.</u>
010157-01	GMX-TRN-41C-1.0
010157-02	GMX-TRN-41B-1.0
010157-03	GMX-TRN-41D-1.0
010157-04	GMX-TRN-41B-3.5
010157-05	GMX-TRN-21C-1.0
010157-06	GMX-TRN-21B-1.0
010157-07	GMX-TRN-21D-1.0
010157-08	GMX-TRN-21B-3.5
010157-09	GMX-TRN-27B-1.0
010157-10	GMX-TRN-27C-1.0
010157-11	GMX-TRN-27D-1.0
010157-12	GMX-TRN-27B-3.5
010157-13	GMX-TRN-44B-1.5
010157-14	GMX-TRN-44D-1.0
010157-15	GMX-TRN-44B-3.5
010157-16	GMX-TRN-44C-1.0

All quality control requirements were within acceptable limits.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00
 Date Received: 10/27/00
 Project: 6262
 Date Extracted: 11/1/00
 Date Analyzed: 11/04/00

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
 USING EPA METHOD 8015M
 Results Reported as µg/g (ppm)**

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX-TRN-41C-1.0 010157-01 d	570	90
GMX-TRN-41B-1.0 010157-02	220	87
GMX-TRN-41D-1.0 010157-03	130	84
GMX-TRN-41B-3.5 010157-04	88	86
GMX-TRN-21C-1.0 010157-05 d	700	92
GMX-TRN-21B-1.0 010157-06 d	2,300	93
GMX-TRN-21D-1.0 010157-07 d	2,000	97
GMX-TRN-21B-3.5 010157-08 d	700	95
GMX-TRN-27B-1.0 010157-09	310	86
GMX-TRN-27C-1.0 010157-10	230	93
GMX-TRN-27D-1.0 010157-11 d	710	102
GMX-TRN-27B-3.5 010157-12	520	80
GMX-TRN-44B-1.5 010157-13 d	1,400	86
Method Blank	<50	82

d - The sample was diluted. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-41C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-01
Date Analyzed: 11/08/00	Data File: 110819.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	86	31	123
Benzo(a)anthracene-d12	107	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	6
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	20
Anthracene	<5
Fluoranthene	46
Pyrene	49
Benz(a)anthracene	21
Chrysene	44
Benzo(b)fluoranthene	27
Benzo(k)fluoranthene	19
Benzo(a)pyrene	30
Indeno(1,2,3-cd)pyrene	14
Dibenzo(a,h)anthracene	9
Benzo(g,h,i)perylene	22

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-41B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-02
Date Analyzed: 11/07/00	Data File: 110727.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	93	31	123
Benzo(a)anthracene-d12	112	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	12
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	12
Anthracene	<5
Fluoranthene	18
Pyrene	20
Benz(a)anthracene	15
Chrysene	26
Benzo(b)fluoranthene	17
Benzo(k)fluoranthene	19
Benzo(a)pyrene	25
Indeno(1,2,3-cd)pyrene	15
Dibenzo(a,h)anthracene	9
Benzo(g,h,i)perylene	20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-41D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-03
Date Analyzed: 11/07/00	Data File: 110728.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	94	31	123
Benzo(a)anthracene-d12	109	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	9
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	17
Anthracene	<5
Fluoranthene	6
Pyrene	9
Benz(a)anthracene	<5
Chrysene	17
Benzo(b)fluoranthene	8
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	7
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-41B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-04
Date Analyzed: 11/07/00	Data File: 110729.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	99	31	123
Benzo(a)anthracene-d12	106	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX-TRN-21C-1.0	Client:	Geomatrix Consultants, Inc.
Date Received:	10/27/00	Project:	6262
Date Extracted:	11/01/00	Lab ID:	010157-05
Date Analyzed:	11/07/00	Data File:	110730.D
Matrix:	Soil	Instrument:	GCMS3
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	88	31	123
Benzo(a)anthracene-d12	110	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	26
Anthracene	5
Fluoranthene	48
Pyrene	50
Benz(a)anthracene	22
Chrysene	35
Benzo(b)fluoranthene	29
Benzo(k)fluoranthene	22
Benzo(a)pyrene	29
Indeno(1,2,3-cd)pyrene	16
Dibenzo(a,h)anthracene	5
Benzo(g,h,i)perylene	22

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-21B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-06 1/10
Date Analyzed: 11/07/00	Data File: 110731.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	107	31	123
Benzo(a)anthracene-d12	83	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	82
Pyrene	100
Benz(a)anthracene	<50
Chrysene	88
Benzo(b)fluoranthene	56
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	59

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-21D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-07 1/10
Date Analyzed: 11/07/00	Data File: 110732.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	110	31	123
Benzo(a)anthracene-d12	95	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	85
Anthracene	<50
Fluoranthene	170
Pyrene	180
Benz(a)anthracene	71
Chrysene	110
Benzo(b)fluoranthene	92
Benzo(k)fluoranthene	75
Benzo(a)pyrene	100
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	68

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-21B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-08
Date Analyzed: 11/07/00	Data File: 110733.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	90	31	123
Benzo(a)anthracene-d12	110	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	6
Anthracene	<5
Fluoranthene	8
Pyrene	9
Benz(a)anthracene	<5
Chrysene	8
Benzo(b)fluoranthene	6
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-27B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-09
Date Analyzed: 11/07/00	Data File: 110734.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	88	31	123
Benzo(a)anthracene-d12	111	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	39
Anthracene	10
Fluoranthene	91
Pyrene	100
Benz(a)anthracene	50
Chrysene	75
Benzo(b)fluoranthene	60
Benzo(k)fluoranthene	45
Benzo(a)pyrene	62
Indeno(1,2,3-cd)pyrene	25
Dibenzo(a,h)anthracene	11
Benzo(g,h,i)perylene	27

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-27C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-10
Date Analyzed: 11/07/00	Data File: 110735.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	85	31	123
Benzo(a)anthracene-d12	111	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	6
Acenaphthene	29
Fluorene	56
Phenanthrene	350
Anthracene	36
Fluoranthene	78
Pyrene	180
Benz(a)anthracene	71
Chrysene	130
Benzo(b)fluoranthene	62
Benzo(k)fluoranthene	37
Benzo(a)pyrene	69
Indeno(1,2,3-cd)pyrene	22
Dibenzo(a,h)anthracene	8
Benzo(g,h,i)perylene	24

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-27D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-11
Date Analyzed: 11/07/00	Data File: 110736.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	93	31	123
Benzo(a)anthracene-d12	115	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	6
Acenaphthylene	<5
Acenaphthene	10
Fluorene	9
Phenanthrene	120
Anthracene	25
Fluoranthene	240
Pyrene	230
Benz(a)anthracene	94
Chrysene	130
Benzo(b)fluoranthene	140
Benzo(k)fluoranthene	130
Benzo(a)pyrene	130
Indeno(1,2,3-cd)pyrene	51
Dibenzo(a,h)anthracene	23
Benzo(g,h,i)perylene	46

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID:	GMX-TRN-27B-3.5	Client:	Geomatrix Consultants, Inc.
Date Received:	10/27/00	Project:	6262
Date Extracted:	11/01/00	Lab ID:	010157-12
Date Analyzed:	11/07/00	Data File:	110737.D
Matrix:	Soil	Instrument:	GCMS3
Units:	ug/kg (ppb)	Operator:	YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	87	31	123
Benzo(a)anthracene-d12	104	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	14
Anthracene	<5
Fluoranthene	20
Pyrene	21
Benz(a)anthracene	10
Chrysene	14
Benzo(b)fluoranthene	14
Benzo(k)fluoranthene	15
Benzo(a)pyrene	17
Indeno(1,2,3-cd)pyrene	10
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-44B-1.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 010157-13
Date Analyzed: 11/08/00	Data File: 110820.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	81	31	123
Benzo(a)anthracene-d12	102	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	8
Anthracene	<5
Fluoranthene	14
Pyrene	21
Benz(a)anthracene	9
Chrysene	26
Benzo(b)fluoranthene	15
Benzo(k)fluoranthene	8
Benzo(a)pyrene	22
Indeno(1,2,3-cd)pyrene	7
Dibenzo(a,h)anthracene	6
Benzo(g,h,i)perylene	14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: Method Blank	Client: Geomatrix Consultants, Inc.
Date Received: 10/27/00	Project: 6262
Date Extracted: 11/01/00	Lab ID: 00-701b3
Date Analyzed: 11/03/00	Data File: 110320.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	82	31	123
Benzo(a)anthracene-d12	95	47	157

Compounds:	Concentration ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00

Date Received: 10/27/00

Project: 6262

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: 010157-12 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Motor Oil	µg/g (ppm)	520	620	18	0-20

Laboratory Code: 010157-12 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Motor Oil	µg/g (ppm)	250	520	104	65-135

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	Relative Percent Difference
Motor Oil	µg/g (ppm)	250	82	84	65-135	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00

Date Received: 10/27/00

Project: 6262

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM**

Laboratory Code: 010090-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthylene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthene	µg/kg (ppb)	<5	<5	nm	0-20
Fluorene	µg/kg (ppb)	<5	<5	nm	0-20
Phenanthrene	µg/kg (ppb)	<5	<5	nm	0-20
Anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Chrysene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<5	<5	nm	0-20

Laboratory Code: 010090-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<5	67	71	56-117	7
Acenaphthylene	µg/kg (ppb)	170	<5	60	61	59-115	2
Acenaphthene	µg/kg (ppb)	170	<5	74	80	59-114	8
Fluorene	µg/kg (ppb)	170	<5	68	74	61-113	8
Phenanthrene	µg/kg (ppb)	170	<5	69	75	51-122	7
Anthracene	µg/kg (ppb)	170	<5	54	58	50-116	7
Fluoranthene	µg/kg (ppb)	170	<5	68	74	52-124	9
Pyrene	µg/kg (ppb)	170	<5	68	75	49-124	9
Benz(a)anthracene	µg/kg (ppb)	170	<5	68	76	50-122	11
Chrysene	µg/kg (ppb)	170	<5	61	67	48-121	9
Benzo(b)fluoranthene	µg/kg (ppb)	170	<5	81	89	52-144	9
Benzo(k)fluoranthene	µg/kg (ppb)	170	<5	63	69	55-135	9
Benzo(a)pyrene	µg/kg (ppb)	170	<5	72	78	49-128	8
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<5	74	82	37-132	10
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<5	73	80	37-136	9
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<5	72	79	28-132	8

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00

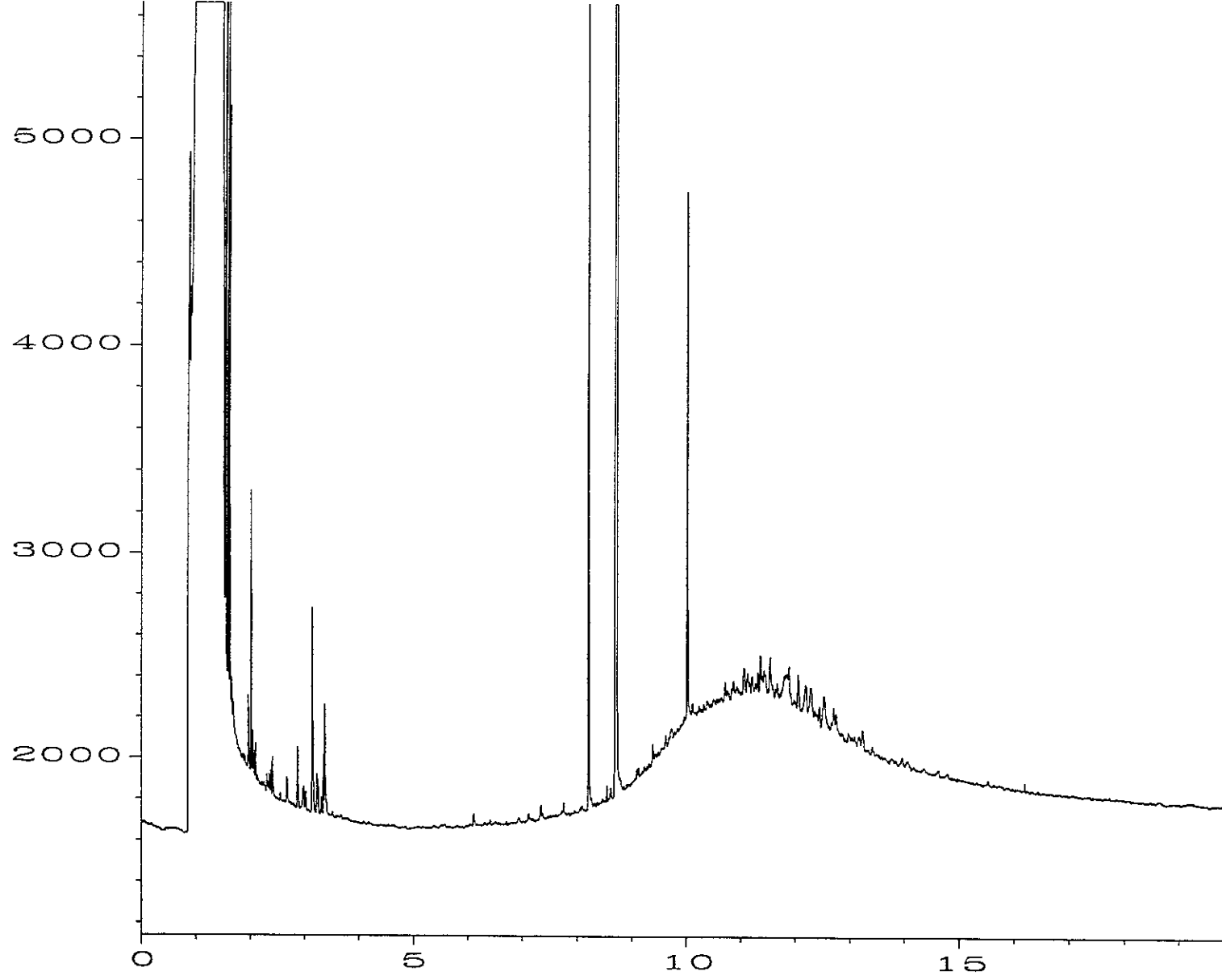
Date Received: 10/27/00

Project: 6262

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	78	79	58-121	1
Acenaphthylene	µg/kg (ppb)	170	72	73	54-122	1
Acenaphthene	µg/kg (ppb)	170	95	95	58-119	0
Fluorene	µg/kg (ppb)	170	88	88	57-122	0
Phenanthrene	µg/kg (ppb)	170	88	88	57-123	1
Anthracene	µg/kg (ppb)	170	64	65	44-125	1
Fluoranthene	µg/kg (ppb)	170	84	81	54-127	4
Pyrene	µg/kg (ppb)	170	84	81	56-123	3
Benz(a)anthracene	µg/kg (ppb)	170	88	88	50-124	0
Chrysene	µg/kg (ppb)	170	78	78	51-122	1
Benzo(b)fluoranthene	µg/kg (ppb)	170	106	105	44-149	1
Benzo(k)fluoranthene	µg/kg (ppb)	170	80	80	52-140	0
Benzo(a)pyrene	µg/kg (ppb)	170	93	93	42-129	0
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	100	104	48-134	4
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	97	101	49-136	4
Benzo(g,h,i)perylene	µg/kg (ppb)	170	97	101	46-134	5



Data File Name : E:\GC4\11-03-00\016F1801.D

Operator : ME

Instrument : GC4

Sample Name : 010157-01 1:10

Run Time Bar Code:

Acquired on : 04 Nov 00 02:00 AM

Report Created on: 09 Jul 48 12:36 PM

Page Number : 1

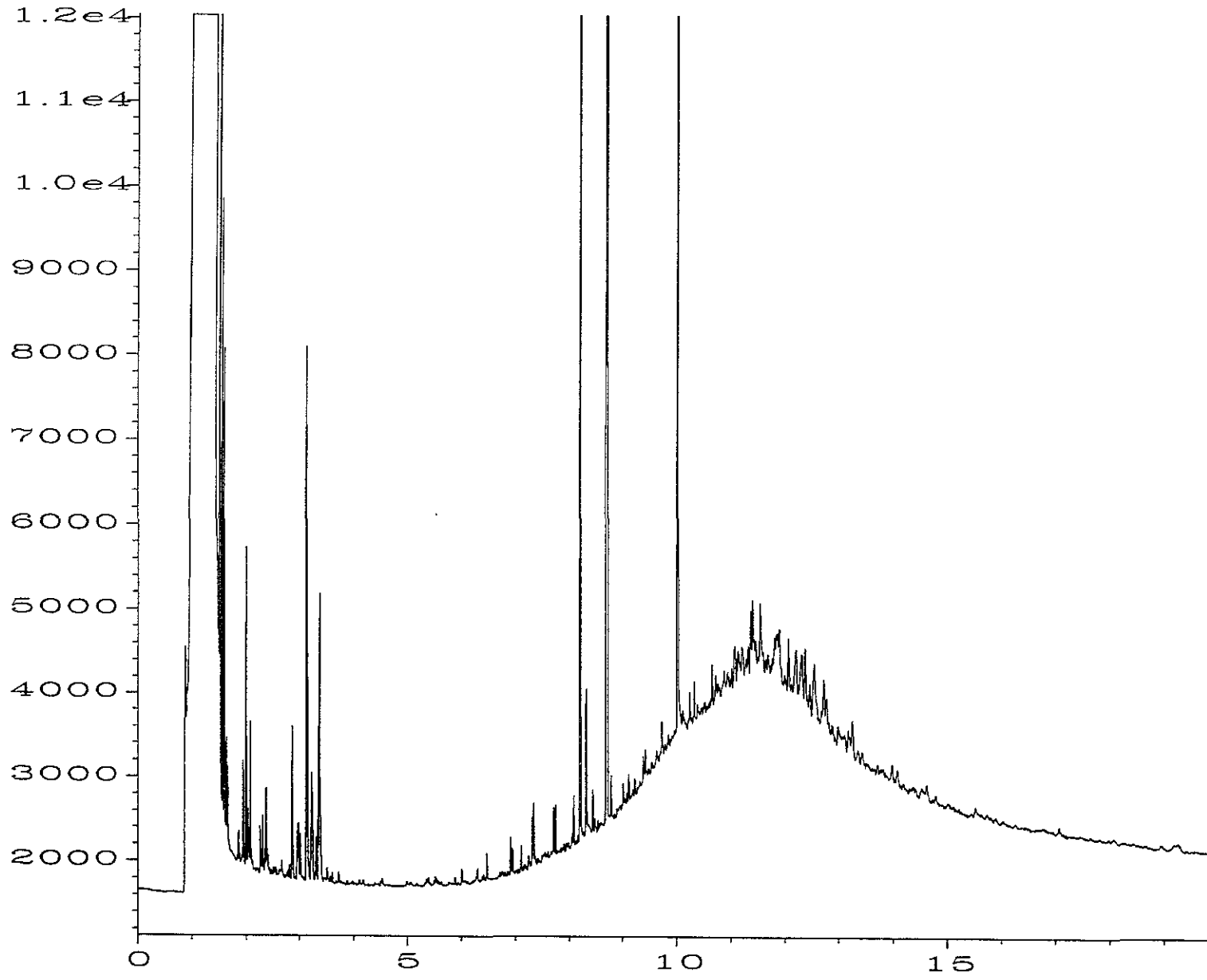
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Injection Number : 1

Sequence Line : 18

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



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Operator : ME

Instrument : GC4

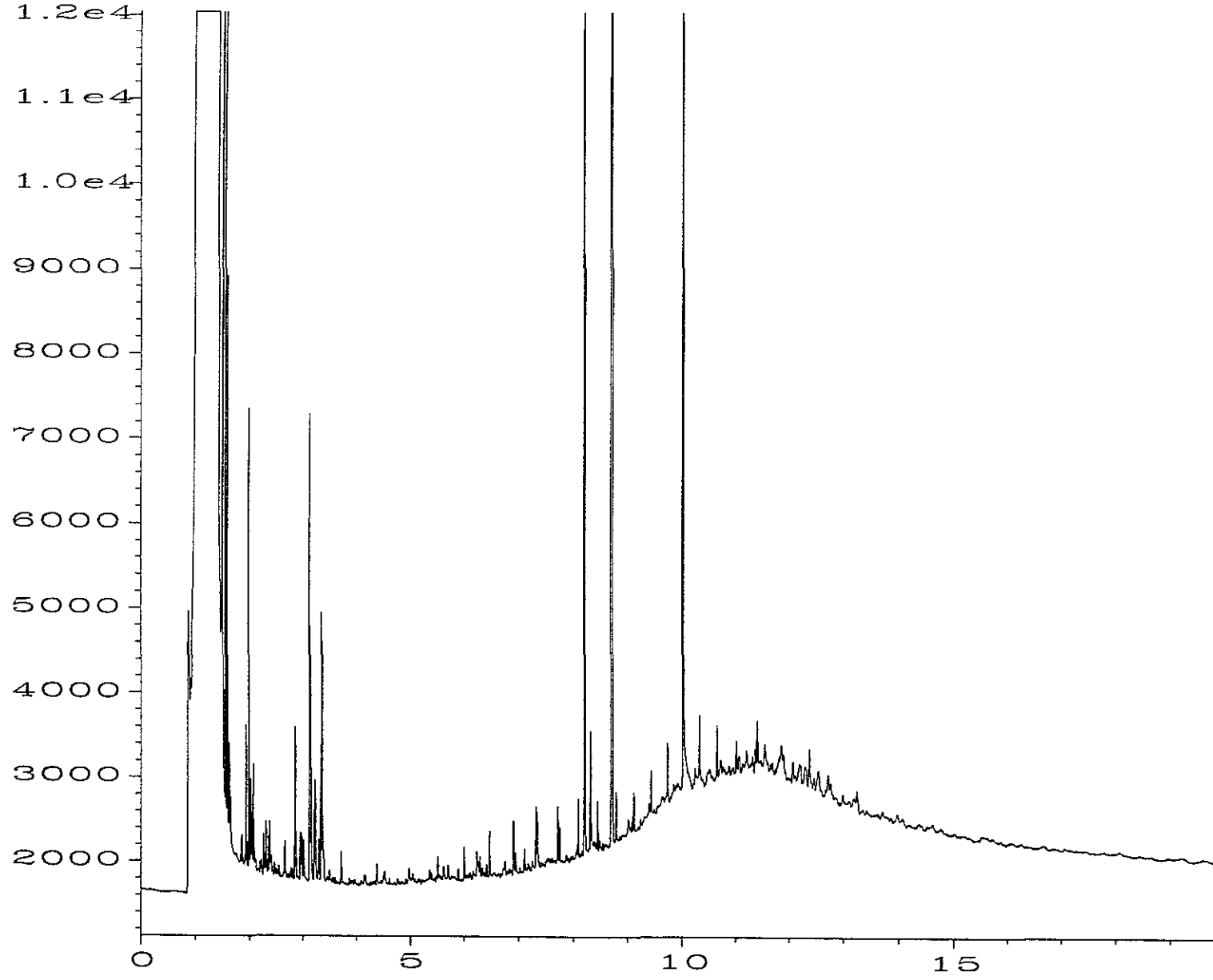
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Run Time Bar Code:

Acquired on : 04 Nov 00 02:31 AM

Report Created on: 09 Jul 48 12:36 PM

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 18
Instrument Method: TPHD.MTH
Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\018F1801.D

Operator : ME

Instrument : GC4

Sample Name : 010157-03

Run Time Bar Code:

Acquired on : 04 Nov 00 02:58 AM

Report Created on: 09 Jul 48 12:37 PM

Page Number : 1

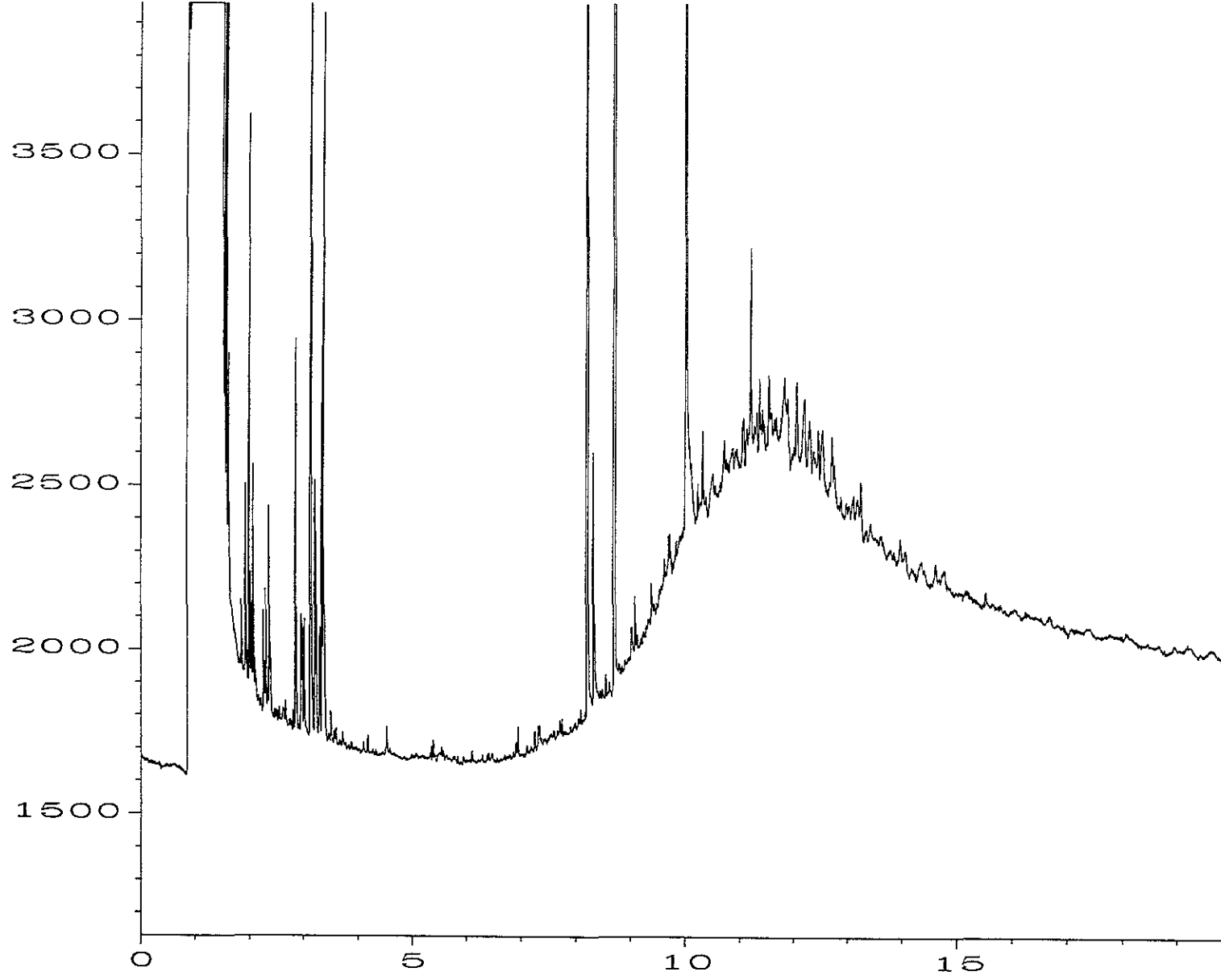
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Injection Number : 1

Sequence Line : 18

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\019F1801.D

Operator : ME

Instrument : GC4

Sample Name : 010157-04

Run Time Bar Code:

Acquired on : 04 Nov 00 03:25 AM

Report Created on: 09 Jul 48 12:37 PM

Page Number : 1

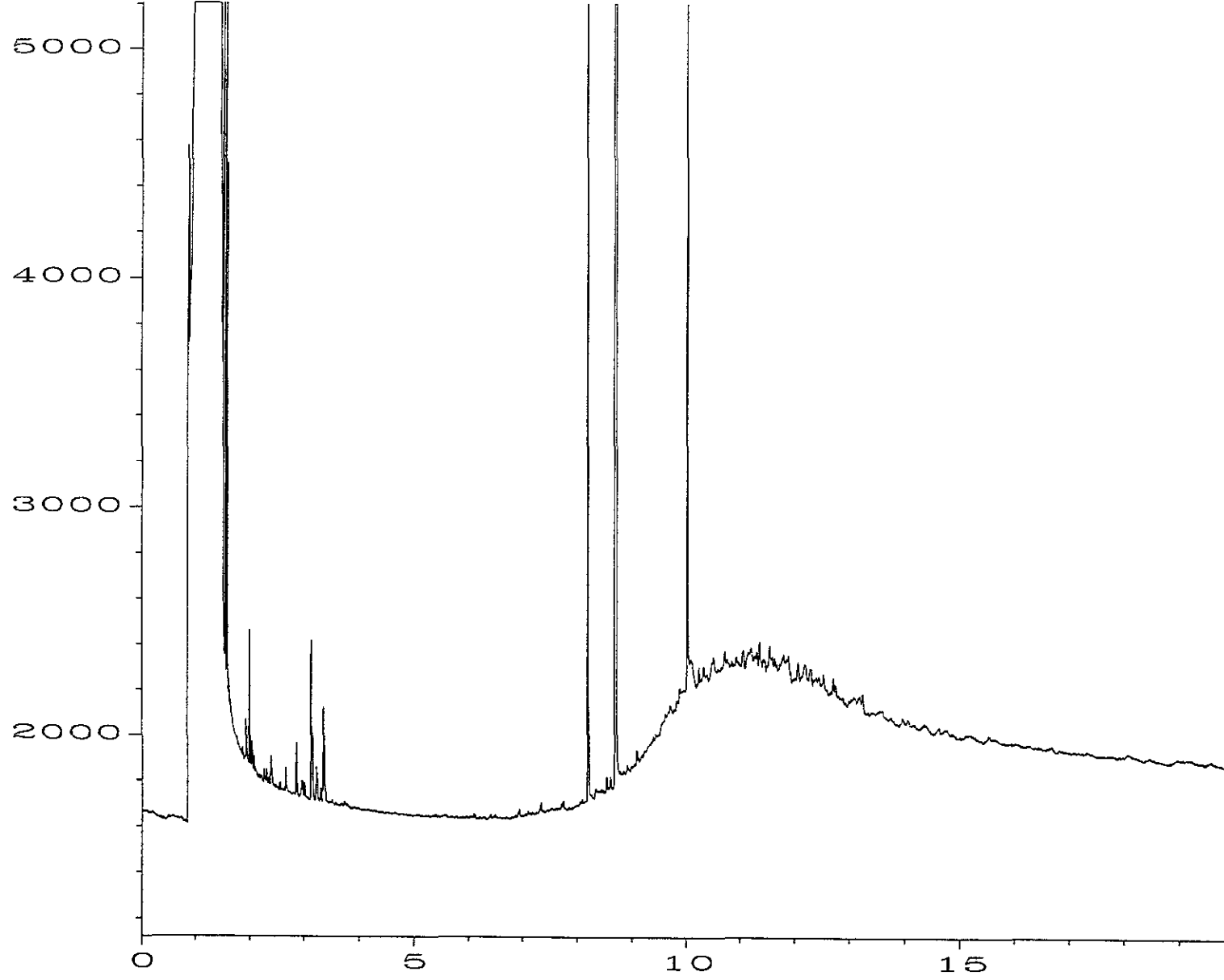
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Injection Number : 1

Sequence Line : 18

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\020F1801.D

Operator : ME

Instrument : GC4

Sample Name : 010157-05 1:10

Run Time Bar Code:

Acquired on : 04 Nov 00 03:51 AM

Report Created on: 09 Jul 48 12:37 PM

Page Number : 1

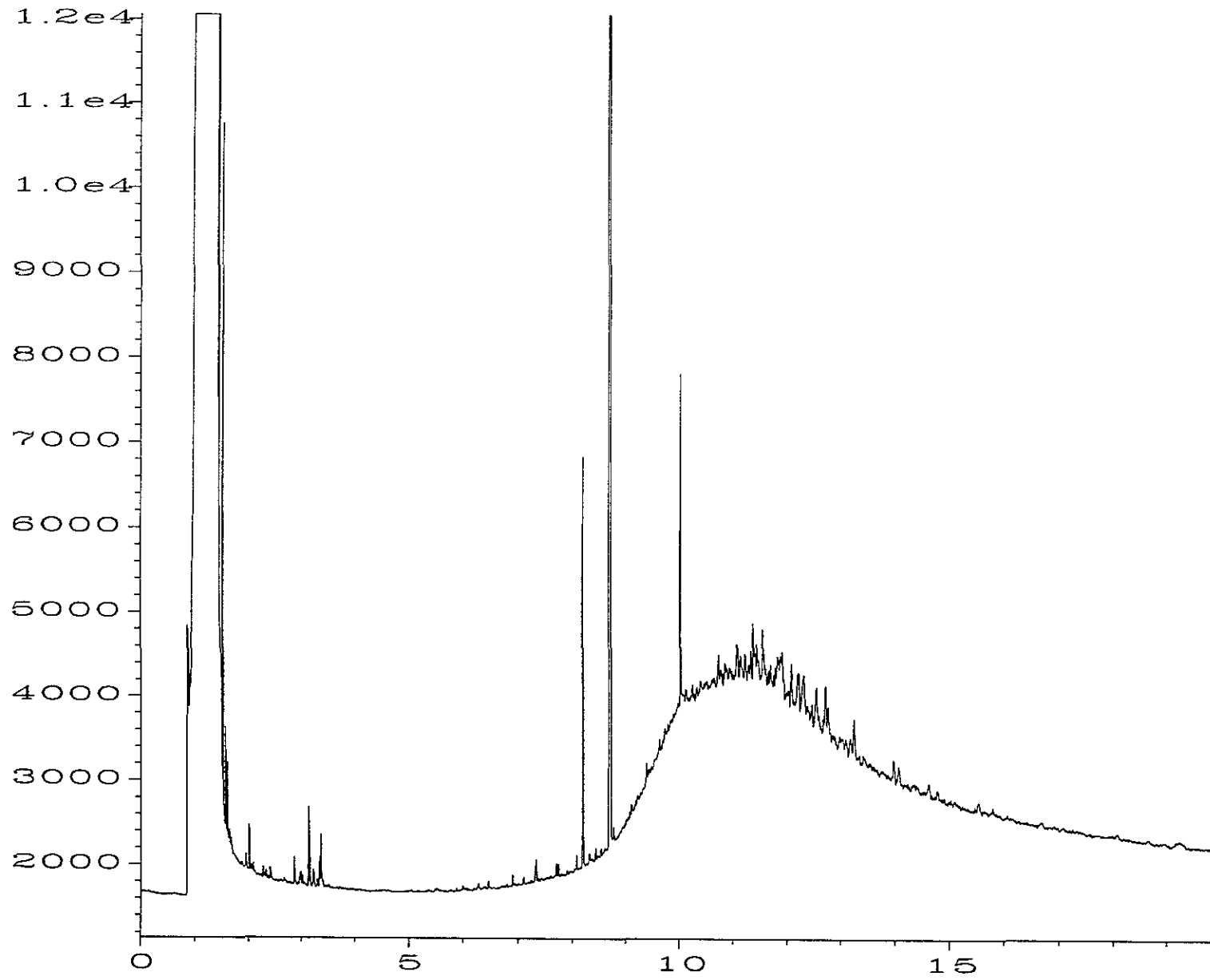
Vial Number : 20

Injection Number : 1

Sequence Line : 18

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\021F2001.D

Operator : ME

Instrument : GC4

Sample Name : 010157-06 1:10

Run Time Bar Code:

Acquired on : 04 Nov 00 04:43 AM

Report Created on: 09 Jul 48 12:37 PM

Page Number : 1

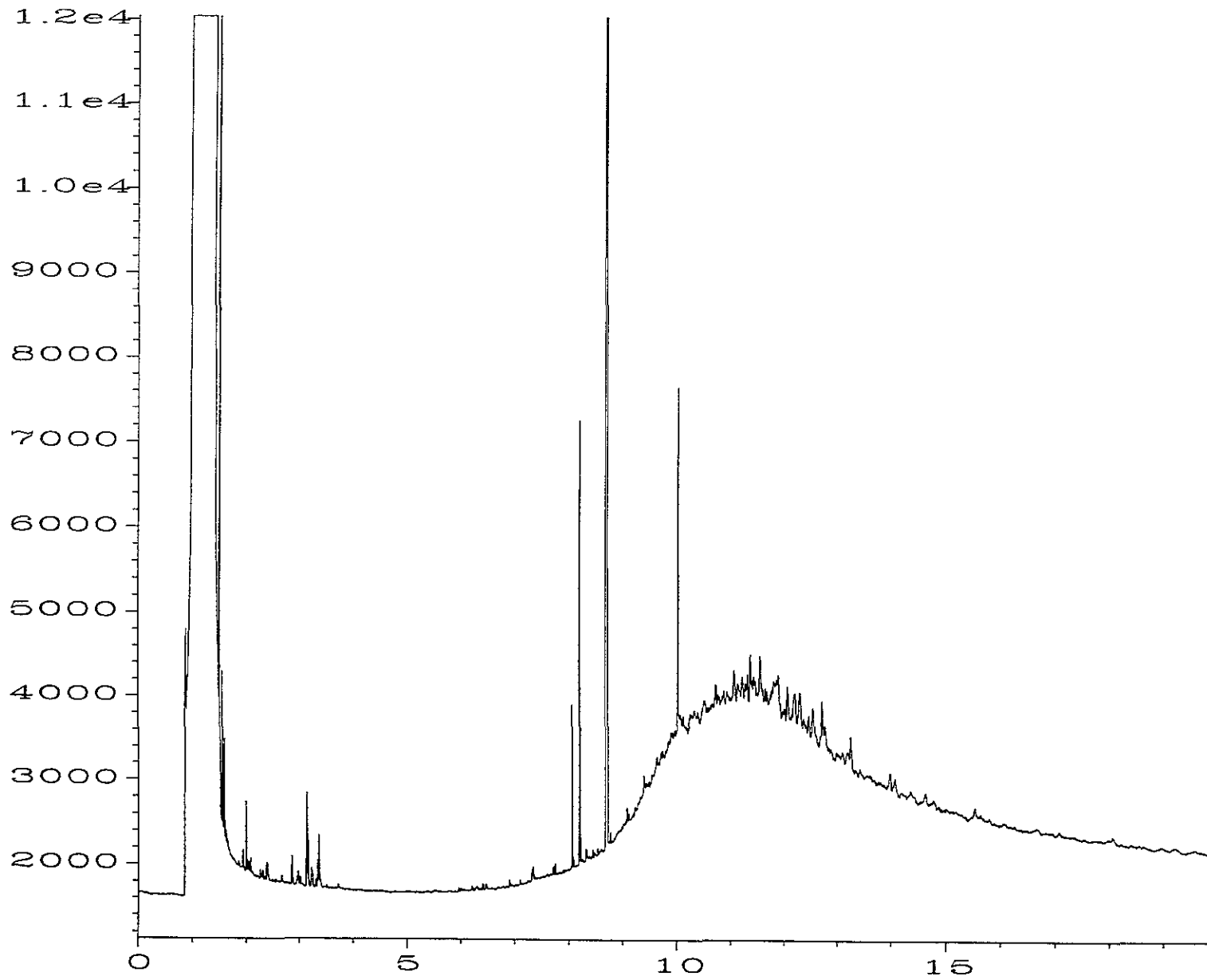
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Injection Number : 1

Sequence Line : 20

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\022F2001.D

Operator : ME

Instrument : GC4

Sample Name : 010157-07 1:10

Run Time Bar Code:

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Report Created on: 09 Jul 48 12:38 PM

Page Number : 1

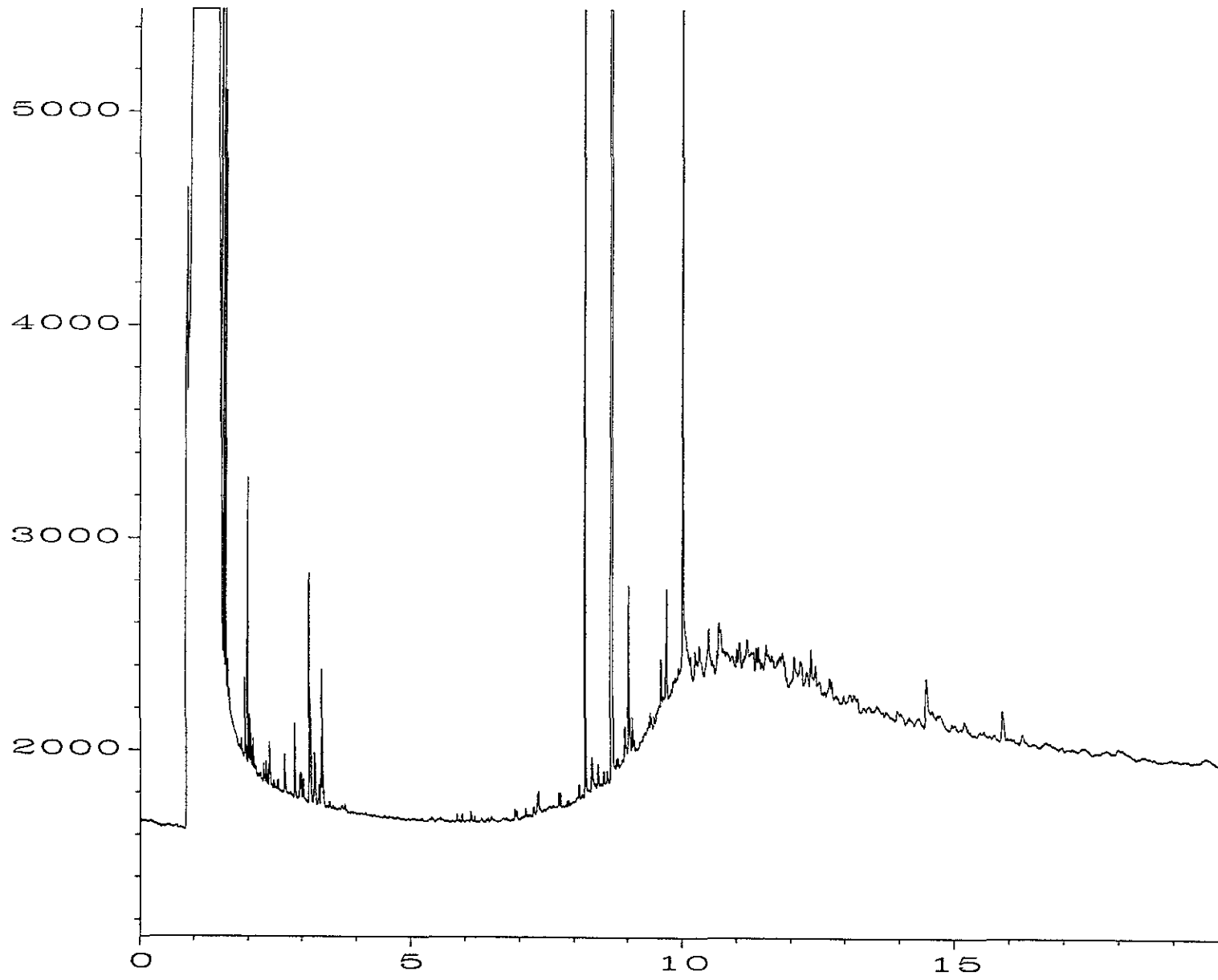
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Injection Number : 1

Sequence Line : 20

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\023F2001.D

Operator : ME

Instrument : GC4

Sample Name : 010157-08 1:10

Run Time Bar Code:

Acquired on : 04 Nov 00 05:41 AM

Report Created on: 09 Jul 48 12:38 PM

Page Number : 1

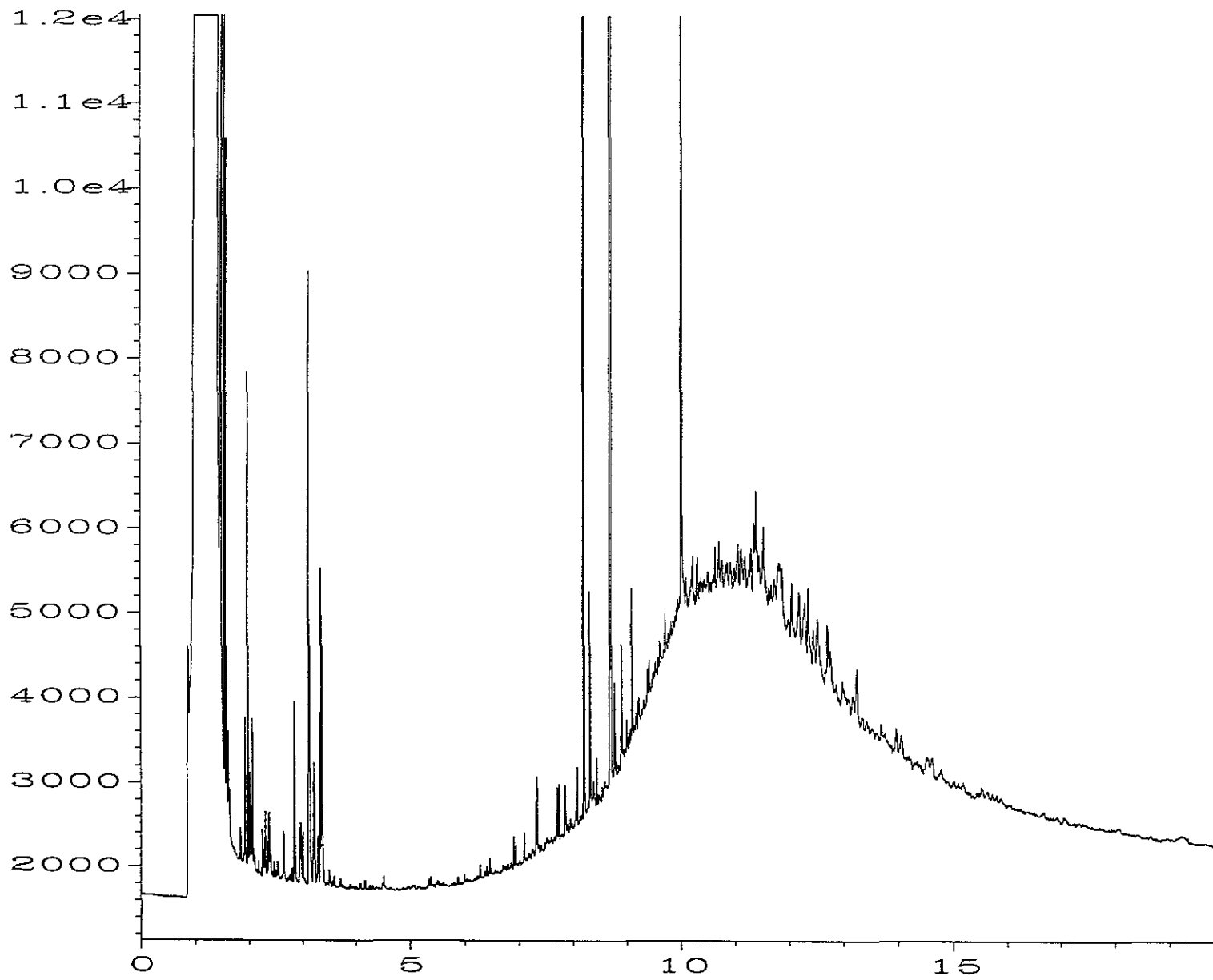
Vial Number : 23

Injection Number : 1

Sequence Line : 20

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\024F2001.D

Operator : ME

Instrument : GC4

Sample Name : 010157-09

Run Time Bar Code:

Acquired on : 04 Nov 00 06:08 AM

Report Created on: 09 Jul 48 12:38 PM

Page Number : 1

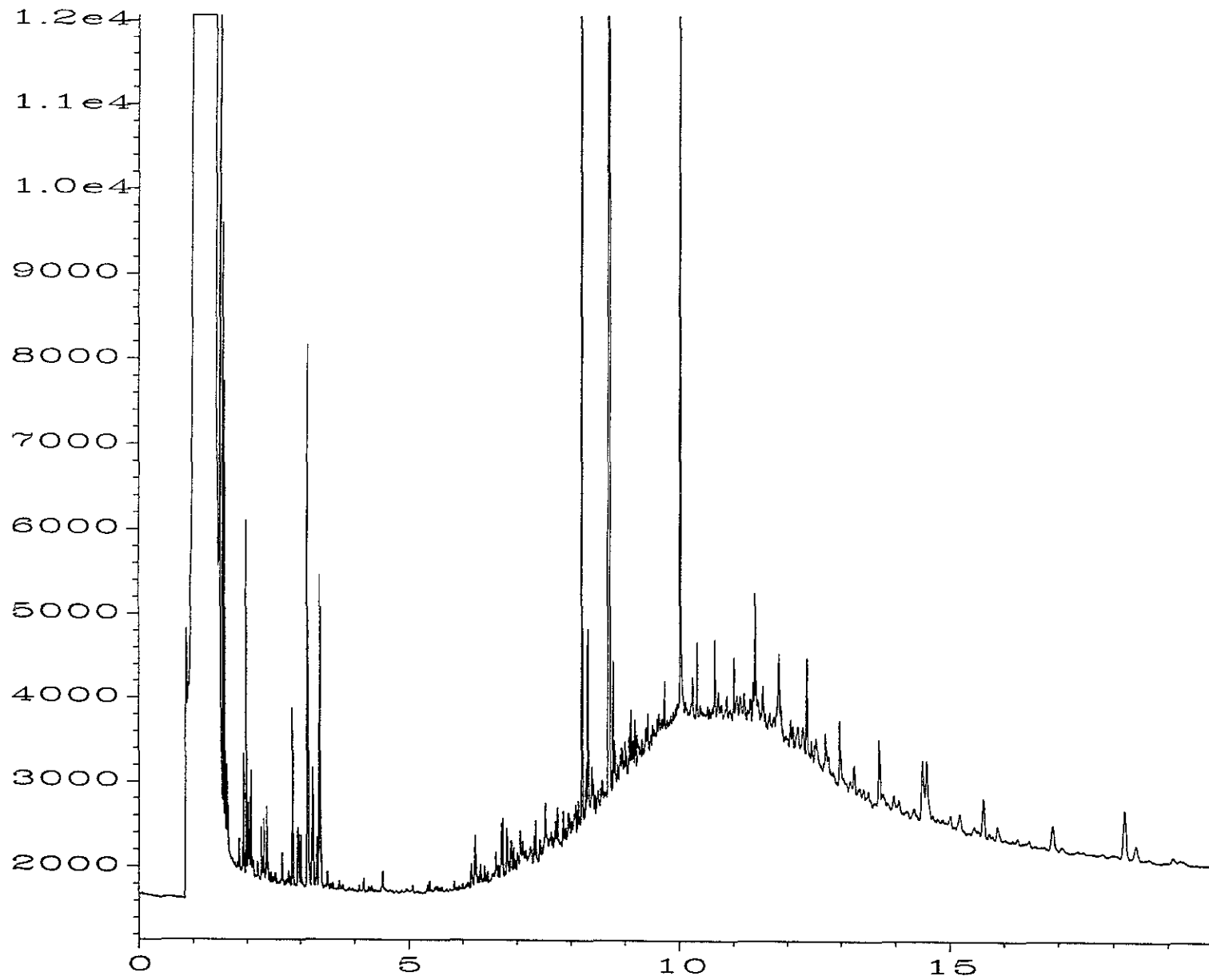
Vial Number : 24

Injection Number : 1

Sequence Line : 20

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\025F2401.D

Operator : ME

Instrument : GC4

Sample Name : 010157-10

Run Time Bar Code:

Acquired on : 04 Nov 00 08:49 AM

Report Created on: 09 Jul 48 12:38 PM

Page Number : 1

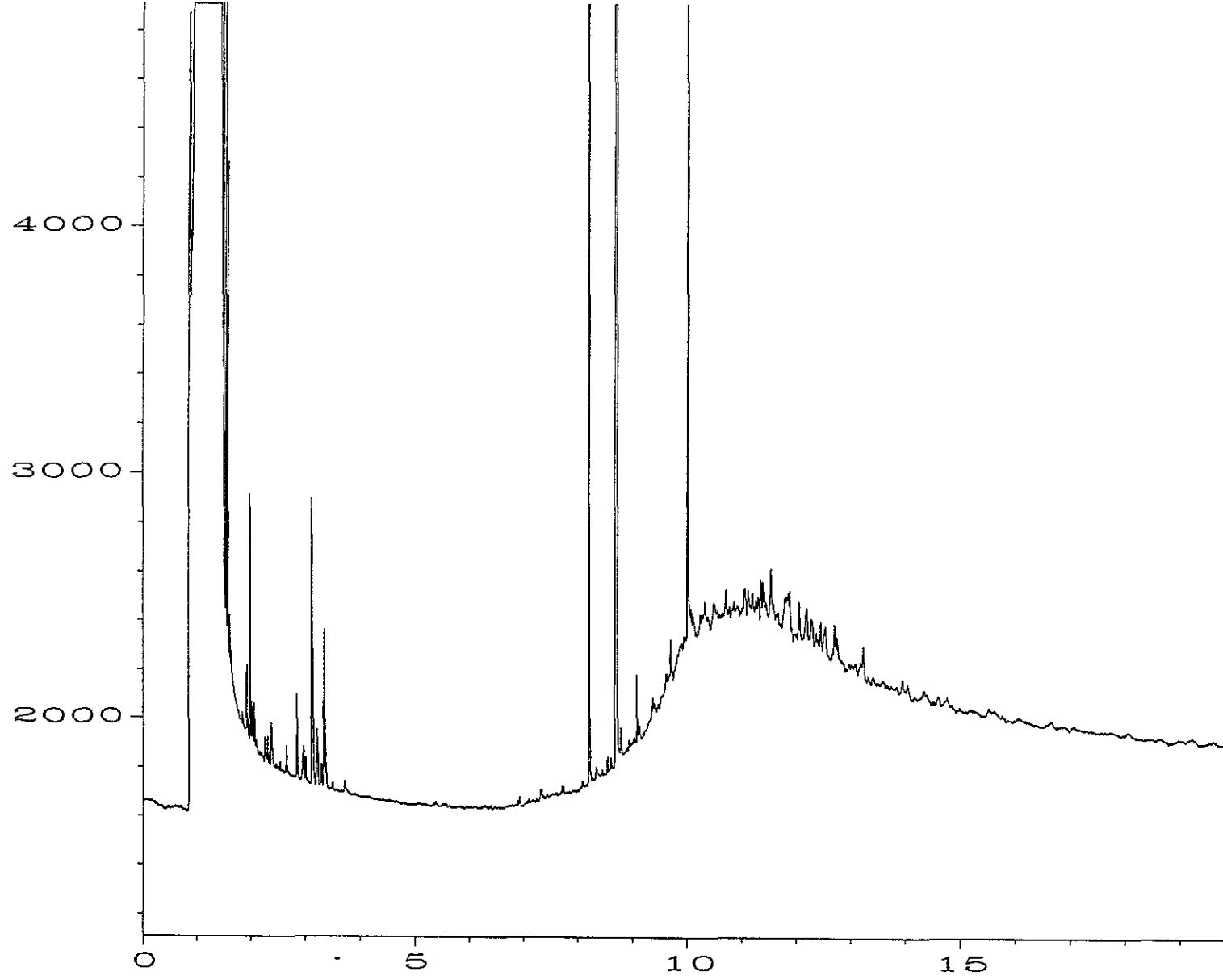
Vial Number : 25

Injection Number : 1

Sequence Line : 24

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\026F2401.D

Operator : ME

Instrument : GC4

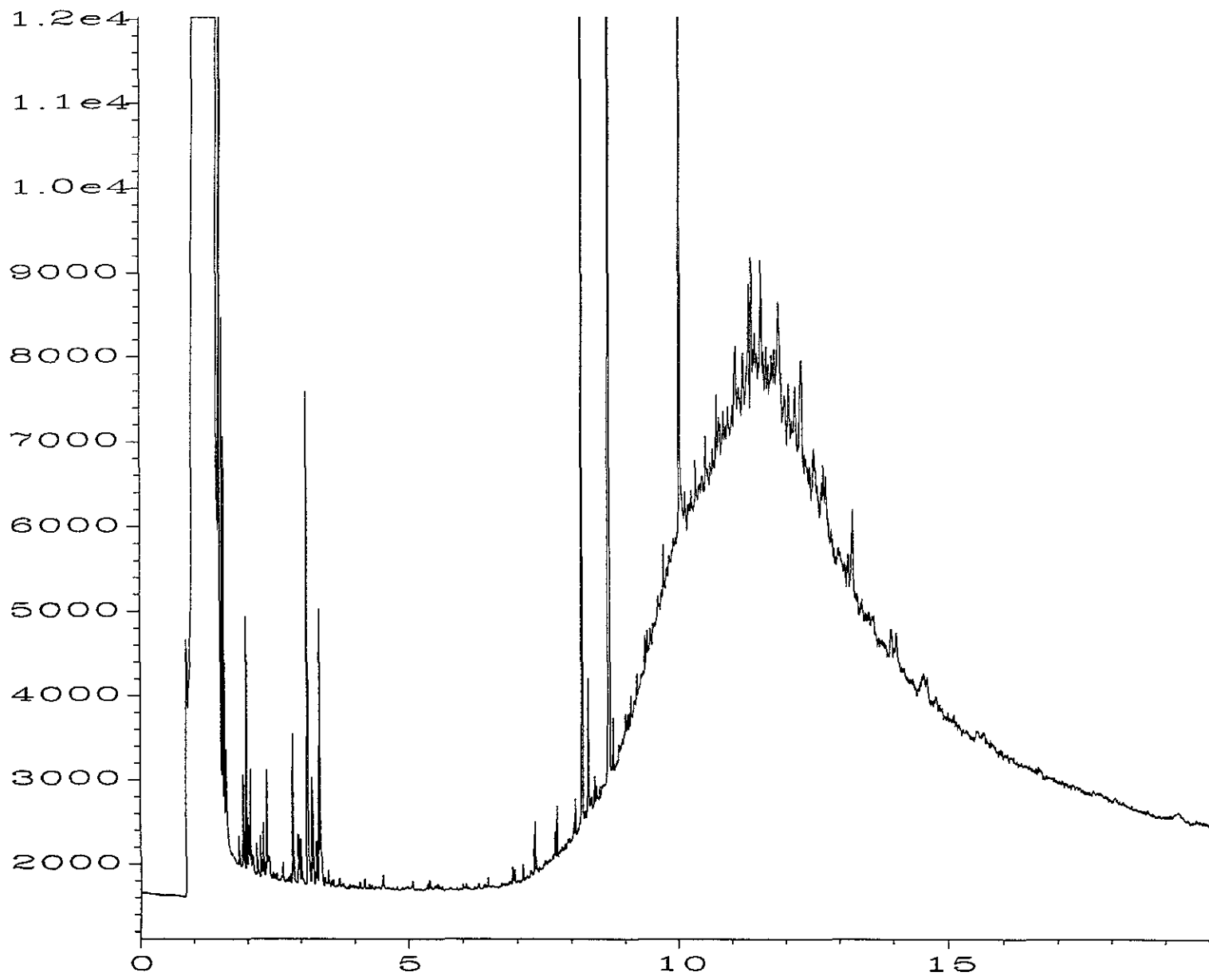
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Run Time Bar Code:

Acquired on : 04 Nov 00 09:20 AM

Report Created on: 09 Jul 48 12:39 PM

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 24
Instrument Method: TPHD.MTH
Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\027F2401.D

Operator : ME

Instrument : GC4

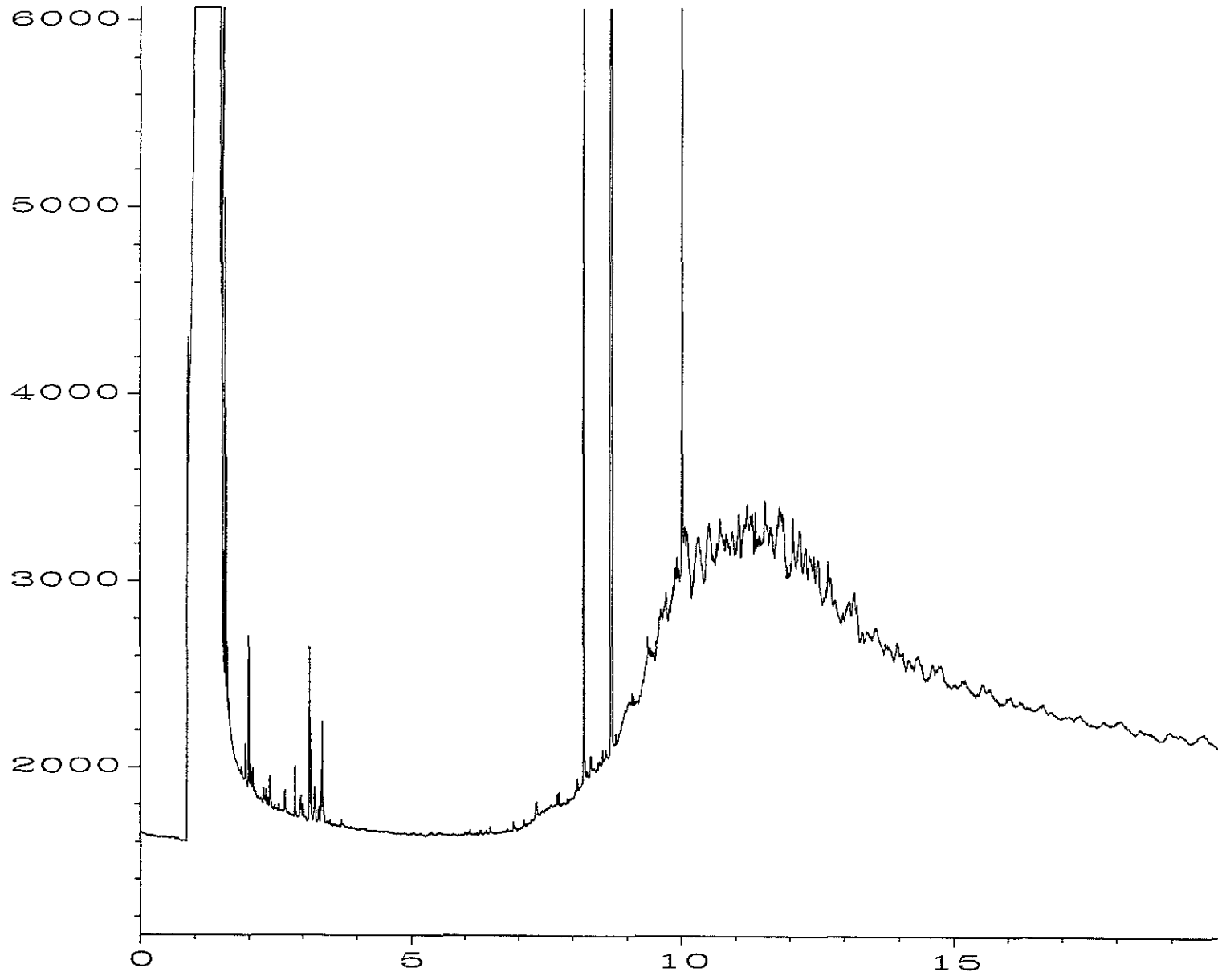
Sample Name : 010157-12 qc

Run Time Bar Code:

Acquired on : 04 Nov 00 09:47 AM

Report Created on: 09 Jul 48 12:39 PM

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 24
Instrument Method: TPHD.MTH
Analysis Method : DEFAULT.MTH



Data File Name : E:\GC4\11-03-00\030F2401.D

Operator : ME

Instrument : GC4

Sample Name : 010157-13 1:10

Run Time Bar Code:

Acquired on : 04 Nov 00 11:07 AM

Report Created on: 09 Jul 48 12:48 PM

Page Number : 1

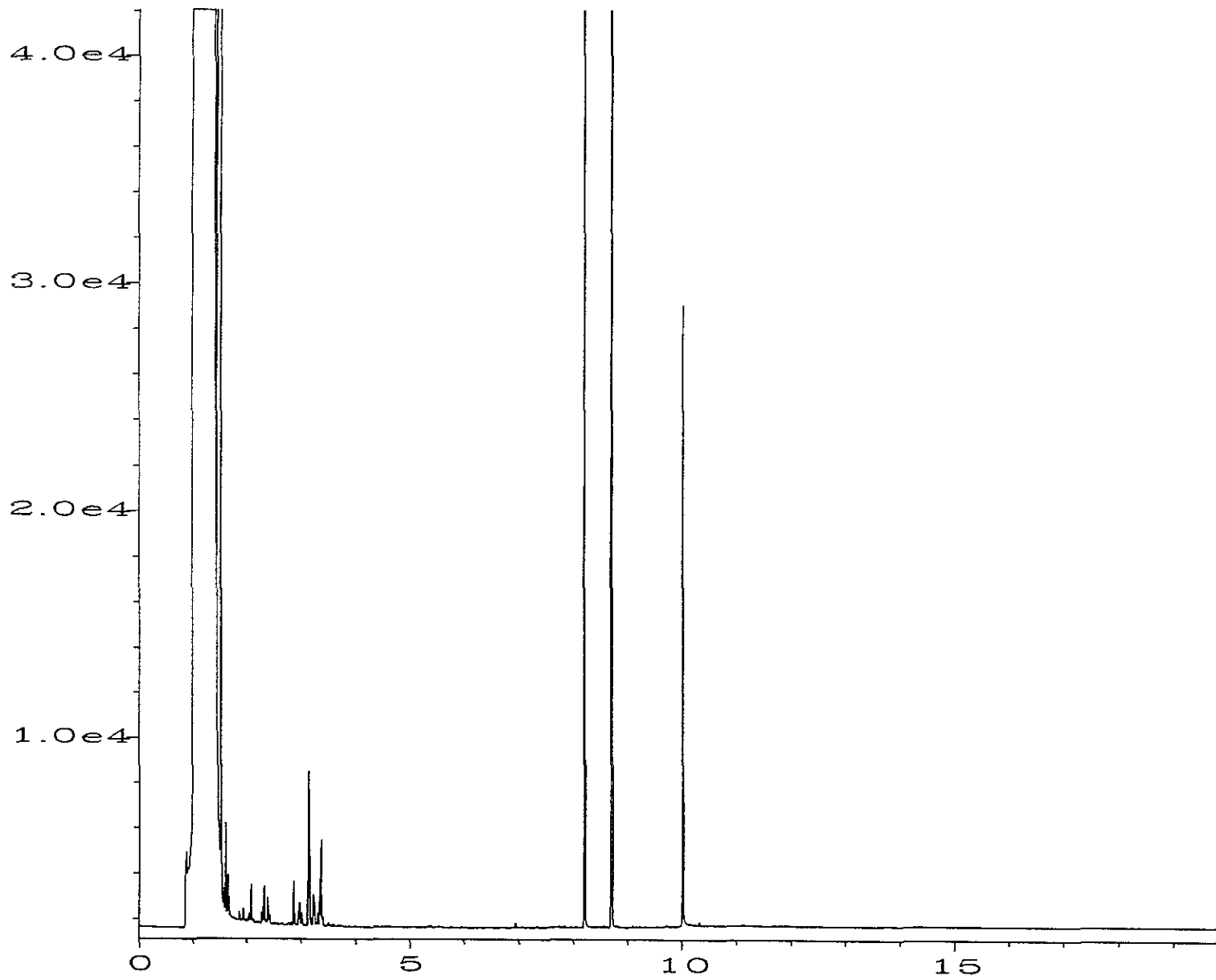
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Injection Number : 1

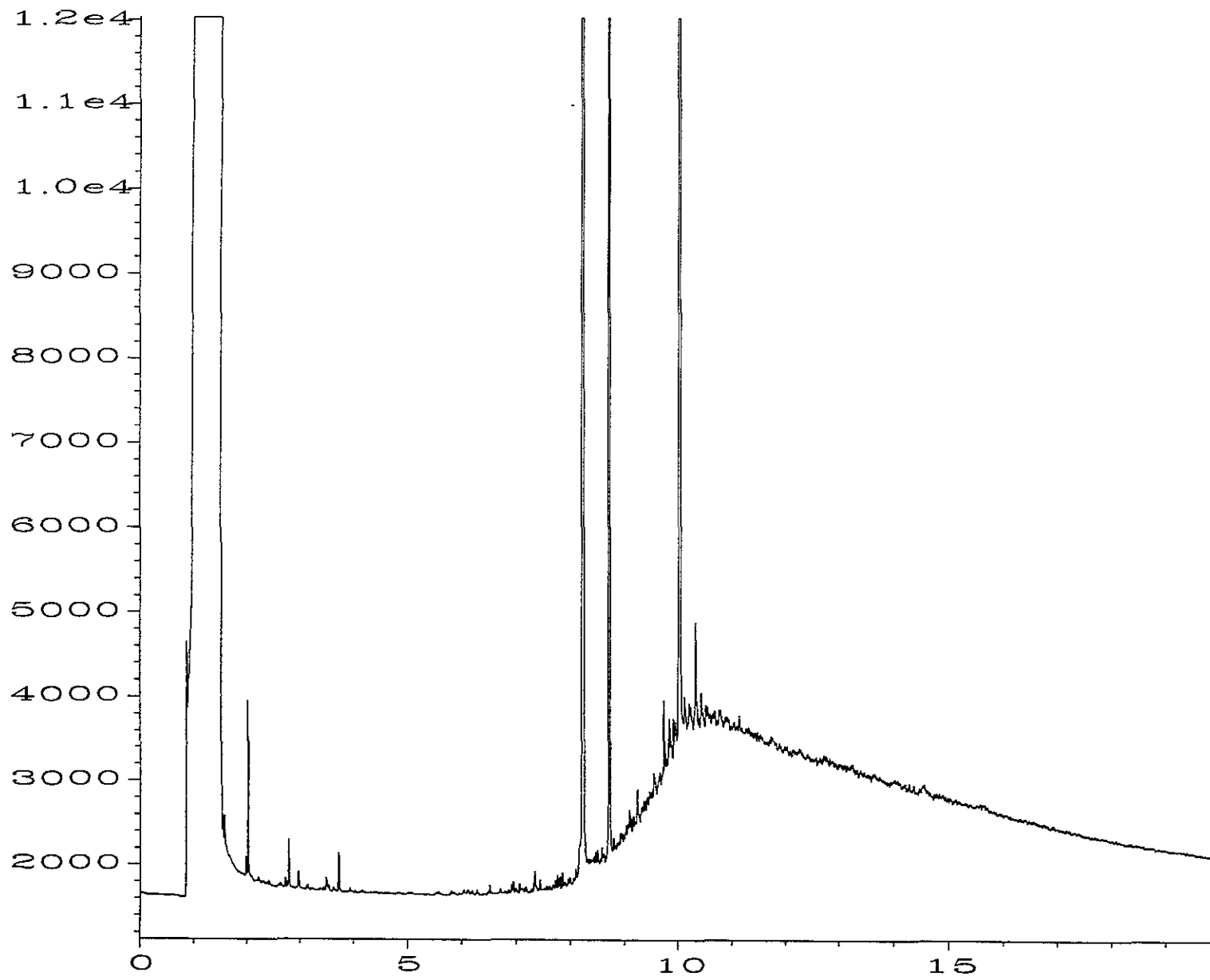
Sequence Line : 24

Instrument Method: TPHD.MTH

Analysis Method : DEFAULT.MTH



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Operator	: ME	Vial Number	: 13
Instrument	: GC4	Injection Number	: 1
Sample Name	: 00-720 mb	Sequence Line	: 16
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 04 Nov 00 00:10 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	09 Jul 48 12:36 PM		



Data File Name : E:\GC4\11-03-00\011F1401.D

Operator : ME

Instrument : GC4

Sample Name : 500 mo 9-109

Run Time Bar Code:

Acquired on : 03 Nov 00 10:50 PM

Report Created on: 09 Jul 48 12:36 PM

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 14
Instrument Method: TPHD.MTH
Analysis Method : DEFAULT.MTH

1 CS 10/26/00 Doc 2

Nº 0906

Date: 10/24/00

Page 1 of 2

Project No.: 6262			ANALYSES															REMARKS							
Samplers (Signatures): <i>Bryan Turner</i> <i>R. Smith</i>			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH inc 8015M	PAHs 8270C-5MS									Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments	
			Date	Time	Sample Number																				
✓	10/24/00	0855	Gmx-TRN-16B-1.0							X	X									81	Y	S	N	1	brass 2"x6" soil tube
		0855	Gmx-TRN-16C-1.0							X	X									02	Y	S	N	1	
		0935	Gmx-TRN-16B-3.5							X	X									03	Y	S	N	1	
		0935	Gmx-TRN-16D-1.0							X	X									04	Y	S	N	1	
		1020	Gmx-TRN-17C-1.0							X	X									05	Y	S	N	1	
		1020	Gmx-TRN-17B-1.0							X	X									06	Y	S	N	1	
		1050	Gmx-TRN-17B-3.5							X	X									07	Y	S	N	1	
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		1150	Gmx-TRN-30B-1.0							X	X									09	Y	S	N	1	
		1155	Gmx-TRN-30C-1.0							X	X									10	Y	S	N	1	
		1230	Gmx-TRN-30D-1.0							X	X									11	Y	S	N	1	
✓		1250	Gmx-TRN-30B-3.0							X	X									12	Y	S	N	1	
Friedman + Bruya			Turnaround time: Standard				Results to: Ann Holbrow				Total No. of containers:				12										
Relinquished by (signature): <i>Bryan Turner</i>			Date: 10/24/00	Relinquished by (signature):				Date:	Relinquished by (signature):				Date:	Method of Shipment: Fed Ex #8200 7653 2008											
Printed Name: Bryan Turner			Time: 1900	Printed Name:				Time:	Printed Name:				Time:	Laboratory Comments and Log No.:											
Company: Geomatrix				Company:					Company:																
Received by (signature): <i>Pam Fitzpatrick</i>			Date: 10/24/00	Received by (signature):				Date:	Received by (signature):				Date:												
Printed Name: Pam Fitzpatrick			Time: 9:30	Printed Name:				Time:	Printed Name:				Time:												
Company:				Company:					Company:																

GEOMATRIX

010145

10/26/00 102

CHAIN-OF-CUSTODY RECORD				No 0907		Date: 10/24/00		Page 2 of 2										
Project No.: 6262			ANALYSES								REMARKS							
Samplers (Signatures): <i>Bryan Turner</i> <i>Es. Smith</i>			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as 8015M	TPH as 8270C SEMS		Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments	
Date	Time	Sample Number																
10/24/00	1445	GMX-TRN-452-1.0																
	1520	GMX-TRN-453-1.0										13	Y	S	N	1	brass 2"x6" soil tube	
	1530	GMX-TRN-45B-1.0										14	Y	S	N	1		
	1555	GMX-TRN-45B-3.5										15	Y	S	N	1		
	1620	GMX-TRN-47B-1.0										16	Y	S	N	1		
	1625	GMX-TRN-47C-1.0										17	Y	S	N	1		
	1655	GMX-TRN-47B-3.5										18	Y	S	N	1		
	1655	GMX-TRN-47D-1.0										19	Y	S	N	1		
	1645	GMX-TRN-47D-0.5										20	Y	S	N	1		
			HOLD															
			ENT															
			840															
Friedman + Bruya			Turnaround time: Standard				Results to: Ann Holbrow				Total No. of containers: 8							
Relinquished by (signature): <i>Bryan Turner</i>		Date: 10/24/00	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: Fed Ex #8200 7653 2008		Laboratory Comments and Log No.:							
Printed Name: Bryan Turner		Time: 1900	Printed Name:		Time:	Printed Name:		Time:										
Company: Geomatrix			Company:			Company:												
Received by (signature): <i>Tom L. ...</i>		Date: 10/24/00	Received by (signature):		Date:	Received by (signature):		Date:										
Printed Name: Tom L. ...		Time: 9:30	Printed Name:		Time:	Printed Name:		Time:										
Company:			Company:			Company:												

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
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November 10, 2000

Ann Holbrow, Project Manager
Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, CA 94612

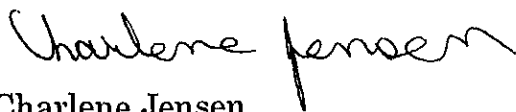
Dear Ms. Holbrow:

Included are the results from the testing of material submitted on October 26, 2000 from your 6262 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Jensen
Chemist

Enclosures
GMC1110R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2000 by Friedman & Bruya, Inc. from the Geomatrix Consultants, Inc. 6262 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Geomatrix Consultants, Inc.</u>
010145-01	GMX-TRN-16B-1.0
010145-02	GMX-TRN-16C-1.0
010145-03	GMX-TRN-16B-3.5
010145-04	GMX-TRN-16D-1.0
010145-05	GMX-TRN-17C-1.0
010145-06	GMX-TRN-17B-1.0
010145-07	GMX-TRN-17B-3.5
010145-08	GMX-TRN-17D-1.0
010145-09	GMX-TRN-30B-1.0
010145-10	GMX-TRN-30C-1.0
010145-11	GMX-TRN-30D-1.0
010145-12	GMX-TRN-30B-3.0
010145-13	GMX-TRN-45C-1.0
010145-14	GMX-TRN-45D-1.0
010145-15	GMX-TRN-45B-1.0
010145-16	GMX-TRN-45B-3.5
010145-17	GMX-TRN-47B-1.0
010145-18	GMX-TRN-47C-1.0
010145-19	GMX-TRN-47B-3.5
010145-20	GMX-TRN-47D-1.0

All quality control requirements were within acceptable limits.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00
Date Received: 10/26/00
Project: 6262
Date Extracted: 10/26/00
Date Analyzed: 10/30/00 and 10/31/00

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**
Results Reported as $\mu\text{g/g}$ (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u>	<u>Surrogate</u> (% Recovery)
GMX-TRN-16B-1.0 010145-01	370	100
GMX-TRN-16C-1.0 010145-02	600	89
GMX-TRN-16B-3.5 010145-03	<50	102
GMX-TRN-16D-1.0 010145-04	150	108
GMX-TRN-17C-1.0 010145-05	580	95
GMX-TRN-17B-1.0 010145-06 d	1,100	84
GMX-TRN-17B-3.5 010145-07	<50	102
GMX-TRN-17D-1.0 010145-08 d	1,100	94
GMX-TRN-30B-1.0 010145-09	230	99
GMX-TRN-30C-1.0 010145-10 d	2,900	110
GMX-TRN-30D-1.0 010145-11	740	108

d - The sample was diluted. Surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00
Date Received: 10/26/00
Project: 6262
Date Extracted: 10/26/00
Date Analyzed: 10/30/00 and 10/31/00

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**
Results Reported as µg/g (ppm)

<u>Sample ID</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID		(% Recovery)
GMX-TRN-30B-3.0 010145-12	<50	92
GMX-TRN-45C-1.0 010145-13	380	103
GMX-TRN-45D-1.0 010145-14 d	1,400	99
GMX-TRN-45B-1.0 010145-15 d	1,200	101
GMX-TRN-45B-3.5 010145-16	<50	124
GMX-TRN-47B-1.0 010145-17	150	98
GMX-TRN-47C-1.0 010145-18	270	112
GMX-TRN-47B-3.5 010145-19	<50	100
GMX-TRN-47D-1.0 010145-20 d	540	102
Method Blank	<50	100

d - The sample was diluted. Surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-16B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-01
Date Analyzed: 11/03/00	Data File: 110238.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	70	31	123
Benzo(a)anthracene-d12	86	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	8
Anthracene	<5
Fluoranthene	17
Pyrene	21
Benz(a)anthracene	12
Chrysene	22
Benzo(b)fluoranthene	15
Benzo(k)fluoranthene	12
Benzo(a)pyrene	16
Indeno(1,2,3-cd)pyrene	9
Dibenzo(a,h)anthracene	6
Benzo(g,h,i)perylene	14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-16C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-02
Date Analyzed: 11/03/00	Data File: 110321.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	78	31	123
Benzo(a)anthracene-d12	96	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	12
Anthracene	<5
Fluoranthene	20
Pyrene	34
Benz(a)anthracene	20
Chrysene	56
Benzo(b)fluoranthene	19
Benzo(k)fluoranthene	10
Benzo(a)pyrene	22
Indeno(1,2,3-cd)pyrene	13
Dibenzo(a,h)anthracene	7
Benzo(g,h,i)perylene	24

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-16B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-03 qc
Date Analyzed: 10/30/00	Data File: 103024.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	77	31	123
Benzo(a)anthracene-d12	75	47	127

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-16D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-04
Date Analyzed: 10/31/00	Data File: 103028.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	75	31	123
Benzo(a)anthracene-d12	92	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-17C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-05
Date Analyzed: 11/03/00	Data File: 110239.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	82	31	123
Benzo(a)anthracene-d12	102	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	9
Anthracene	<5
Fluoranthene	9
Pyrene	16
Benz(a)anthracene	6
Chrysene	14
Benzo(b)fluoranthene	8
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	10
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-17B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-06
Date Analyzed: 11/03/00	Data File: 110322.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	76	31	123
Benzo(a)anthracene-d12	91	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	9
Pyrene	13
Benz(a)anthracene	7
Chrysene	16
Benzo(b)fluoranthene	11
Benzo(k)fluoranthene	7
Benzo(a)pyrene	11
Indeno(1,2,3-cd)pyrene	8
Dibenzo(a,h)anthracene	6
Benzo(g,h,i)perylene	14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-17B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-07
Date Analyzed: 10/31/00	Data File: 103029.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	72	31	123
Benzo(a)anthracene-d12	94	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-17D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-08
Date Analyzed: 11/03/00	Data File: 110330.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	80	31	123
Benzo(a)anthracene-d12	96	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	22
Anthracene	<5
Fluoranthene	55
Pyrene	59
Benz(a)anthracene	19
Chrysene	32
Benzo(b)fluoranthene	22
Benzo(k)fluoranthene	17
Benzo(a)pyrene	25
Indeno(1,2,3-cd)pyrene	12
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	16

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-30B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-09 1/10
Date Analyzed: 11/03/00	Data File: 110233.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	100	31	123
Benzo(a)anthracene-d12	102	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	68
Anthracene	<50
Fluoranthene	210
Pyrene	230
Benz(a)anthracene	75
Chrysene	100
Benzo(b)fluoranthene	65
Benzo(k)fluoranthene	59
Benzo(a)pyrene	72
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	53

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-30C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-10 1/10
Date Analyzed: 11/03/00	Data File: 110234.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	84	31	123
Benzo(a)anthracene-d12	103	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	59
Phenanthrene	210
Anthracene	<50
Fluoranthene	<50
Pyrene	140
Benz(a)anthracene	89
Chrysene	190
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	66

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-30D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-11 1/10
Date Analyzed: 11/03/00	Data File: 110235.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	85	31	123
Benzo(a)anthracene-d12	99	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	110
Anthracene	<50
Fluoranthene	71
Pyrene	120
Benz(a)anthracene	67
Chrysene	140
Benzo(b)fluoranthene	55
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	69
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	59

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-30B-3.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-12
Date Analyzed: 11/03/00	Data File: 110236.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	80	31	123
Benzo(a)anthracene-d12	99	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-45C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-13 1/10
Date Analyzed: 11/08/00	Data File: 110818.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	129 vo	31	123
Benzo(a)anthracene-d12	80	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-45D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-14 1/10
Date Analyzed: 11/08/00	Data File: 110740.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	132 vo	31	123
Benzo(a)anthracene-d12	77	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<50
Acenaphthylene	<50
Acenaphthene	<50
Fluorene	<50
Phenanthrene	<50
Anthracene	<50
Fluoranthene	<50
Pyrene	<50
Benz(a)anthracene	<50
Chrysene	<50
Benzo(b)fluoranthene	<50
Benzo(k)fluoranthene	<50
Benzo(a)pyrene	<50
Indeno(1,2,3-cd)pyrene	<50
Dibenzo(a,h)anthracene	<50
Benzo(g,h,i)perylene	<50

Note: The sample was diluted due to high levels of interfering compounds. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-45B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-15
Date Analyzed: 11/03/00	Data File: 110237.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	79	31	123
Benzo(a)anthracene-d12	99	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	7
Anthracene	<5
Fluoranthene	10
Pyrene	16
<i>Benz(a)anthracene</i>	9
Chrysene	26
Benzo(b)fluoranthene	18
Benzo(k)fluoranthene	6
Benzo(a)pyrene	13
Indeno(1,2,3-cd)pyrene	8
Dibenzo(a,h)anthracene	7
Benzo(g,h,i)perylene	22

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-45B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-16
Date Analyzed: 10/31/00	Data File: 103032.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	71	31	123
Benzo(a)anthracene-d12	84	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-47B-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-17
Date Analyzed: 11/02/00	Data File: 110230.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	90	31	123
Benzo(a)anthracene-d12	107	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	10
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-47C-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-18
Date Analyzed: 11/02/00	Data File: 110231.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	85	31	123
Benzo(a)anthracene-d12	103	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-47B-3.5	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-19
Date Analyzed: 10/31/00	Data File: 103030.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	68	31	123
Benzo(a)anthracene-d12	83	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: GMX-TRN-47D-1.0	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 010145-20
Date Analyzed: 11/03/00	Data File: 110232.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

	% Recovery	Lower Limit	Upper Limit
Surrogates:			
Anthracene-d10	88	31	123
Benzo(a)anthracene-d12	109	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	5
Benz(a)anthracene	<5
Chrysene	13
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PNA Compounds By EPA Method 8270C SIM

Client Sample ID: Method Blank	Client: Geomatrix Consultants, Inc.
Date Received: 10/26/00	Project: 6262
Date Extracted: 10/27/00	Lab ID: 00-709mb
Date Analyzed: 10/30/00	Data File: 103021.D
Matrix: Soil	Instrument: GCMS3
Units: ug/kg (ppb)	Operator: YA

Surrogates:	% Recovery	Lower Limit	Upper Limit
Anthracene-d10	77	31	123
Benzo(a)anthracene-d12	77	47	157

Compounds:	Concentration: ug/kg (ppb)
Naphthalene	<5
Acenaphthylene	<5
Acenaphthene	<5
Fluorene	<5
Phenanthrene	<5
Anthracene	<5
Fluoranthene	<5
Pyrene	<5
Benz(a)anthracene	<5
Chrysene	<5
Benzo(b)fluoranthene	<5
Benzo(k)fluoranthene	<5
Benzo(a)pyrene	<5
Indeno(1,2,3-cd)pyrene	<5
Dibenzo(a,h)anthracene	<5
Benzo(g,h,i)perylene	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00

Date Received: 10/26/00

Project: 6262

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: 010145-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Motor Oil	µg/g (ppm)	<50	<50	nm	0-20

Laboratory Code: 010145-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Motor Oil	µg/g (ppm)	250	<50	84	65-135

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	Acceptance Criteria
Motor Oil	µg/g (ppm)	250	74	65-135

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00

Date Received: 10/26/00

Project: 6262

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR PNA'S BY EPA METHOD 8270C SIM**

Laboratory Code: 010145-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD	Acceptance Criteria
Napthalene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthylene	µg/kg (ppb)	<5	<5	nm	0-20
Acenaphthene	µg/kg (ppb)	<5	<5	nm	0-20
Fluorene	µg/kg (ppb)	<5	<5	nm	0-20
Phenanthrene	µg/kg (ppb)	<5	<5	nm	0-20
Anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Benz(a)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Chrysene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(b)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(k)fluoranthene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(a)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	<5	<5	nm	0-20
Dibenzo(a,h)anthracene	µg/kg (ppb)	<5	<5	nm	0-20
Benzo(g,h,i)perylene	µg/kg (ppb)	<5	<5	nm	0-20

Laboratory Code: 010145-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	<5	86	85	56-117	1
Acenaphthylene	µg/kg (ppb)	170	<5	103	103	59-115	0
Acenaphthene	µg/kg (ppb)	170	<5	98	101	59-114	3
Fluorene	µg/kg (ppb)	170	<5	97	97	61-113	1
Phenanthrene	µg/kg (ppb)	170	<5	87	93	51-122	6
Anthracene	µg/kg (ppb)	170	<5	90	93	50-116	4
Fluoranthene	µg/kg (ppb)	170	<5	93	101	52-124	8
Pyrene	µg/kg (ppb)	170	<5	97	104	49-124	7
Benz(a)anthracene	µg/kg (ppb)	170	<5	94	97	50-122	4
Chrysene	µg/kg (ppb)	170	<5	84	88	48-121	4
Benzo(b)fluoranthene	µg/kg (ppb)	170	<5	94	98	52-144	3
Benzo(k)fluoranthene	µg/kg (ppb)	170	<5	105	109	55-135	4
Benzo(a)pyrene	µg/kg (ppb)	170	<5	92	96	49-128	4
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	<5	103	109	37-132	5
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	<5	103	108	37-136	4
Benzo(g,h,i)perylene	µg/kg (ppb)	170	<5	98	103	28-132	5

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/00

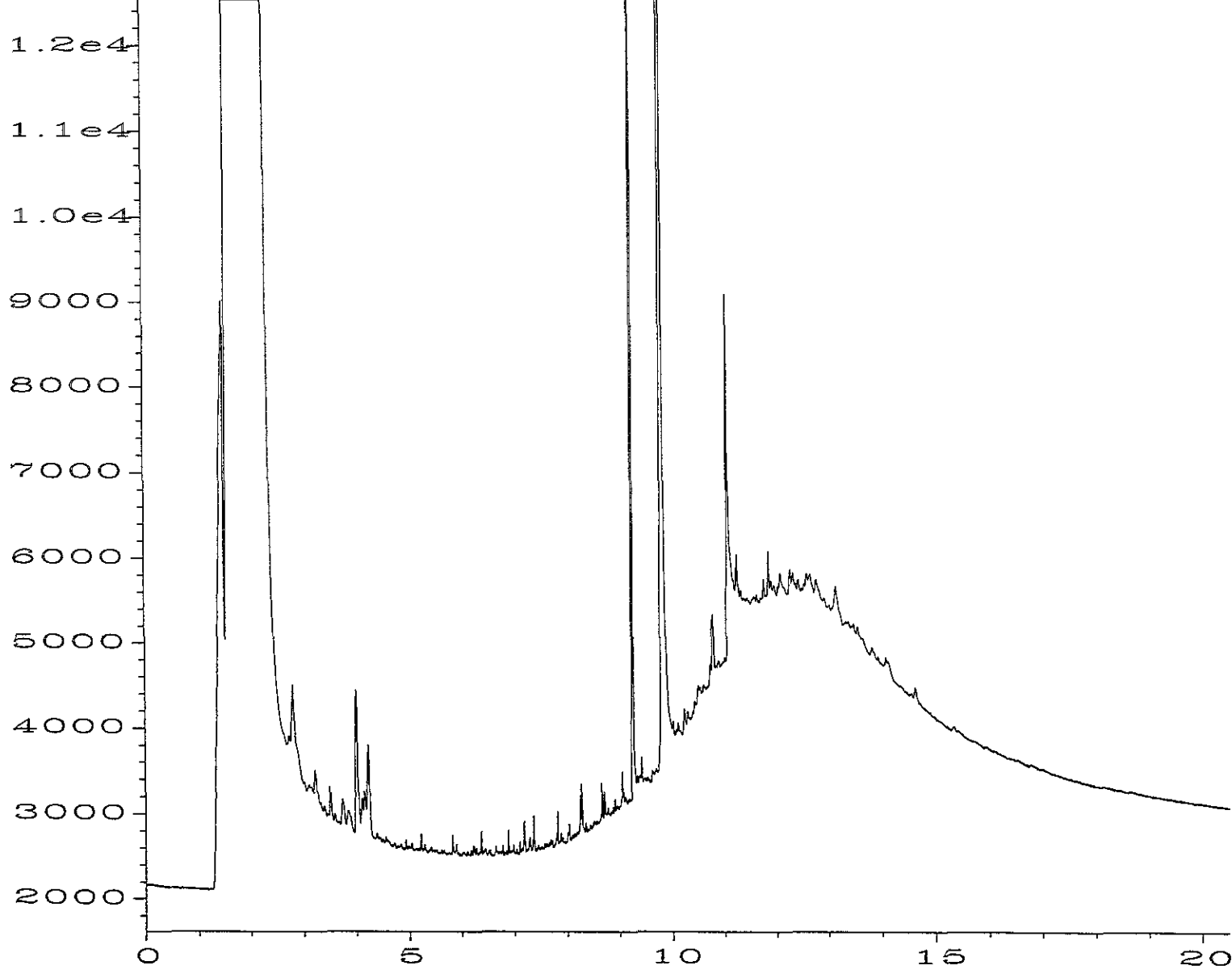
Date Received: 10/26/00

Project: 6262

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR PNA'S BY EPA METHOD 8270C SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Napthalene	µg/kg (ppb)	170	79	86	58-121	8
Acenaphthylene	µg/kg (ppb)	170	93	103	54-122	10
Acenaphthene	µg/kg (ppb)	170	90	103	58-119	13
Fluorene	µg/kg (ppb)	170	90	99	57-122	9
Phenanthrene	µg/kg (ppb)	170	82	89	57-123	9
Anthracene	µg/kg (ppb)	170	82	93	44-125	13
Fluoranthene	µg/kg (ppb)	170	87	94	54-127	8
Pyrene	µg/kg (ppb)	170	88	95	56-123	8
Benz(a)anthracene	µg/kg (ppb)	170	88	95	50-124	8
Chrysene	µg/kg (ppb)	170	79	86	51-122	8
Benzo(b)fluoranthene	µg/kg (ppb)	170	88	94	44-149	7
Benzo(k)fluoranthene	µg/kg (ppb)	170	100	108	52-140	7
Benzo(a)pyrene	µg/kg (ppb)	170	79	89	42-129	13
Indeno(1,2,3-cd)pyrene	µg/kg (ppb)	170	97	105	48-134	7
Dibenzo(a,h)anthracene	µg/kg (ppb)	170	98	105	49-136	7
Benzo(g,h,i)perylene	µg/kg (ppb)	170	92	99	46-134	7



Data File Name : E:\GC6\10-30-00\006F0601.D

Operator : me

Instrument : GC #6

Sample Name : 010145-01

Run Time Bar Code:

Acquired on : 30 Oct 00 06:56 PM

Report Created on: 31 Oct 00 02:27 PM

Page Number : 1

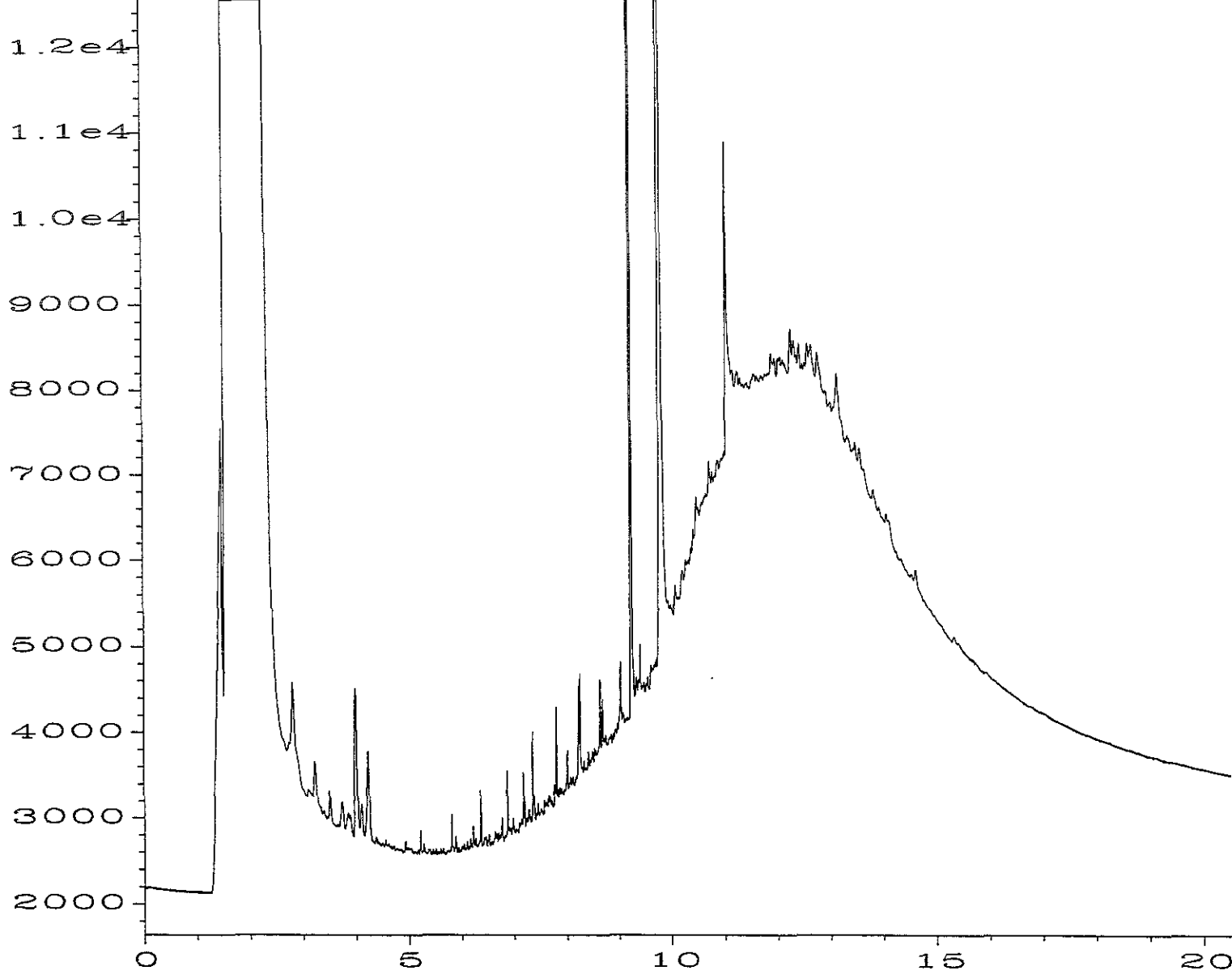
Vial Number : 6

Injection Number : 1

Sequence Line : 6

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\007F0601.D

Operator : me

Instrument : GC #6

Sample Name : 010145-02

Run Time Bar Code:

Acquired on : 30 Oct 00 07:22 PM

Report Created on: 31 Oct 00 02:28 PM

Page Number : 1

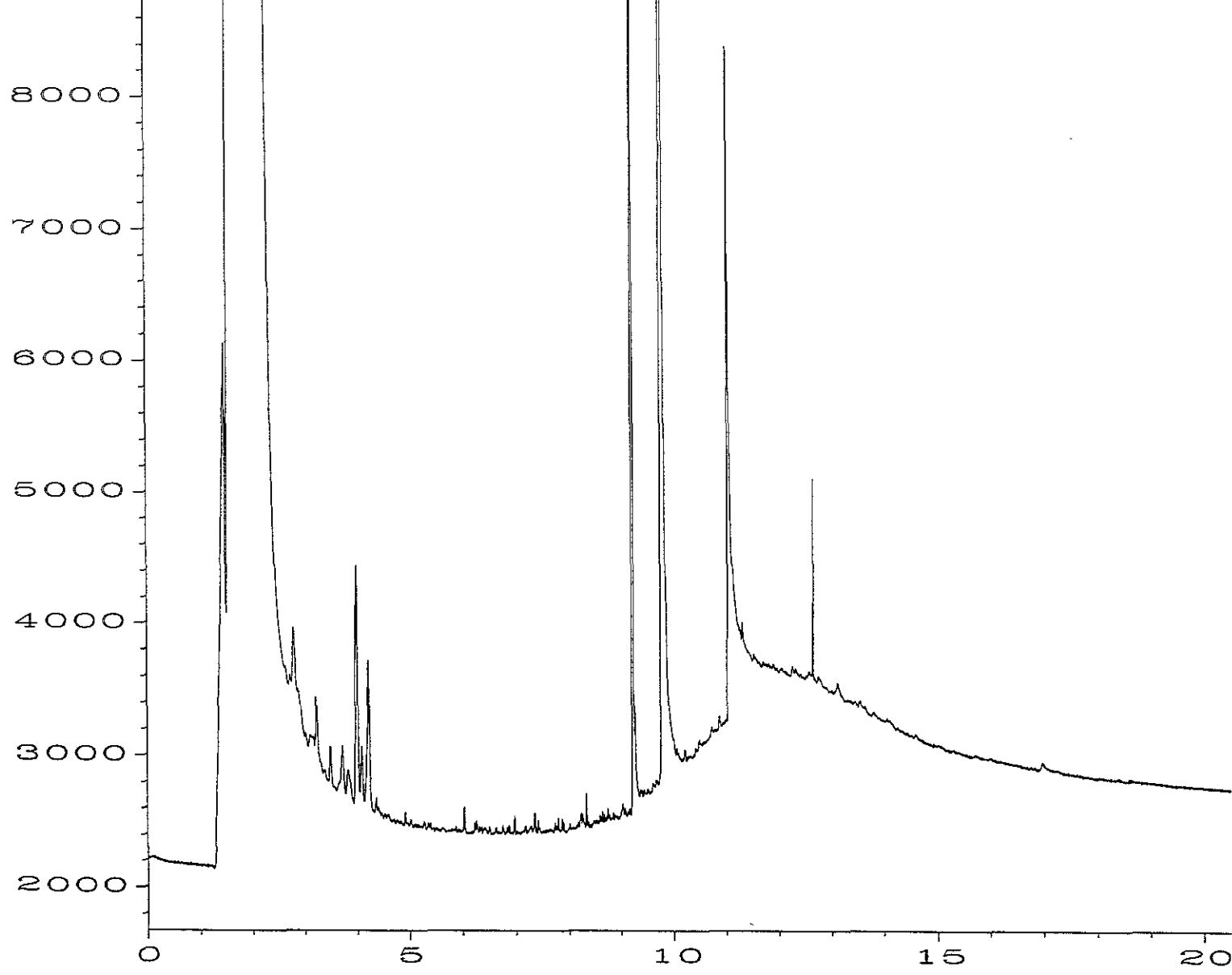
Vial Number : 7

Injection Number : 1

Sequence Line : 6

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\012F0801.D

Operator : me

Instrument : GC #6

Sample Name : 010145-04

Run Time Bar Code:

Acquired on : 30 Oct 00 10:02 PM

Report Created on: 31 Oct 00 02:30 PM

Page Number : 1

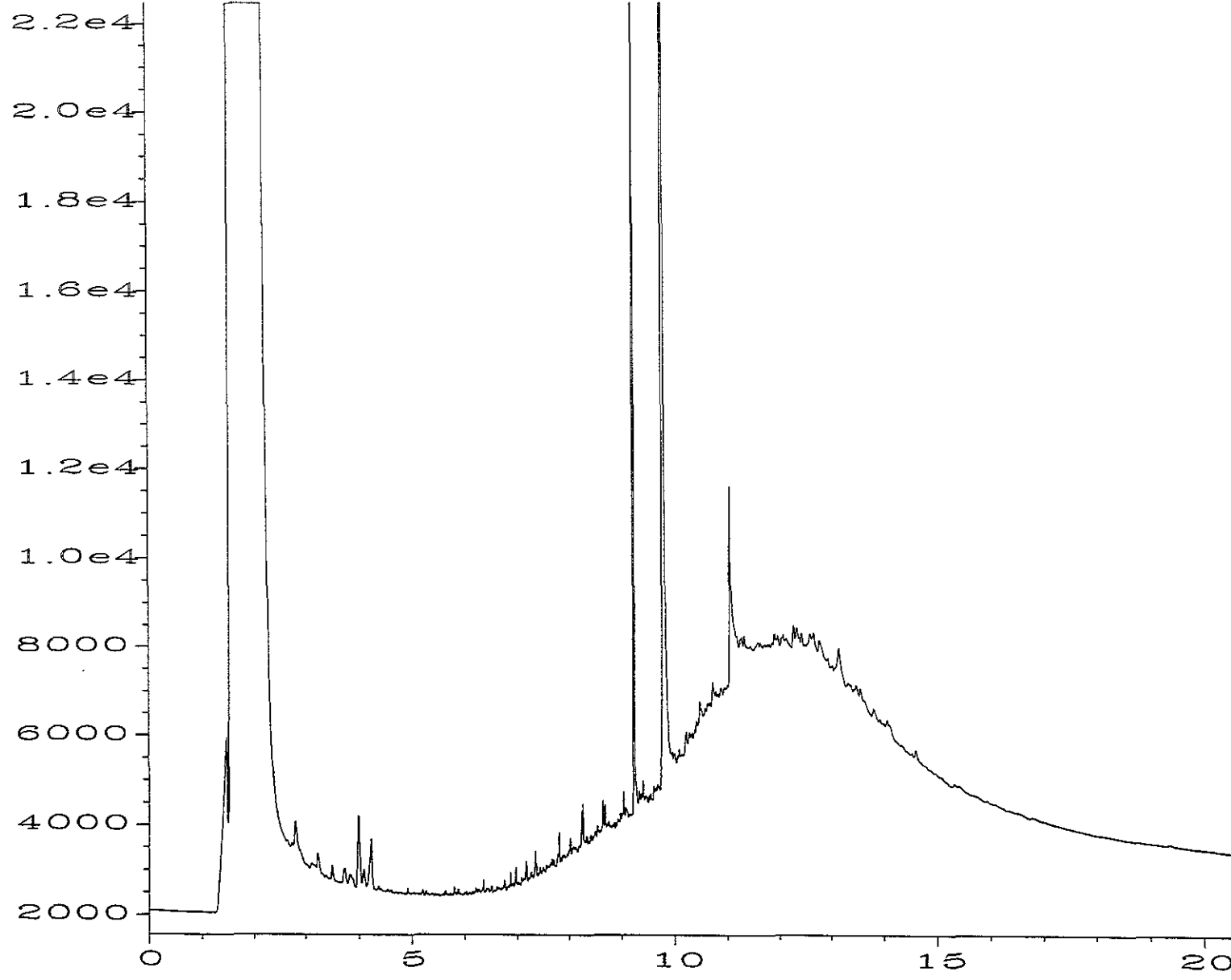
Vial Number : 12

Injection Number : 1

Sequence Line : 8

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\013F0801.D

Operator : me

Instrument : GC #6

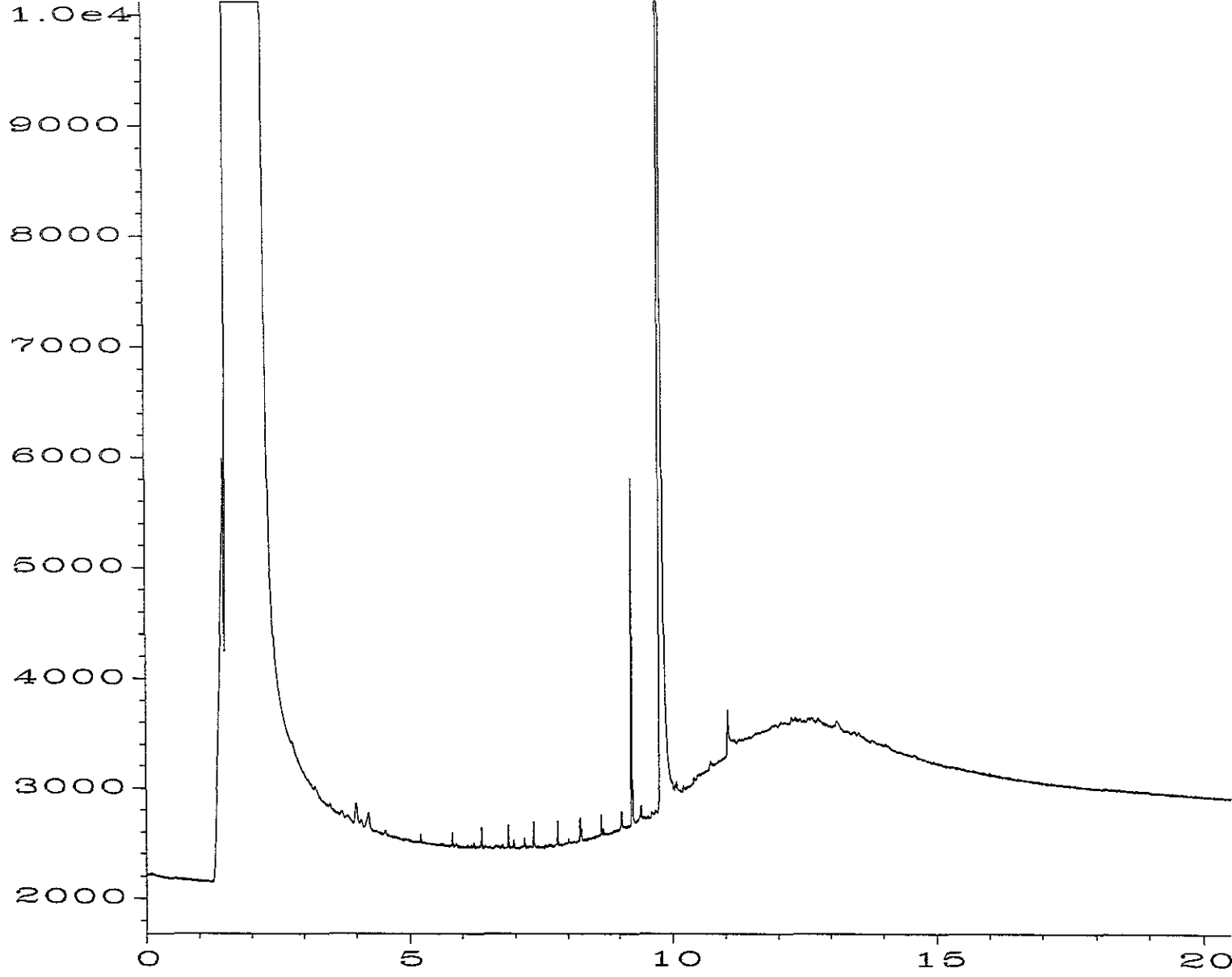
Sample Name : 010145-05

Run Time Bar Code:

Acquired on : 30 Oct 00 10:31 PM

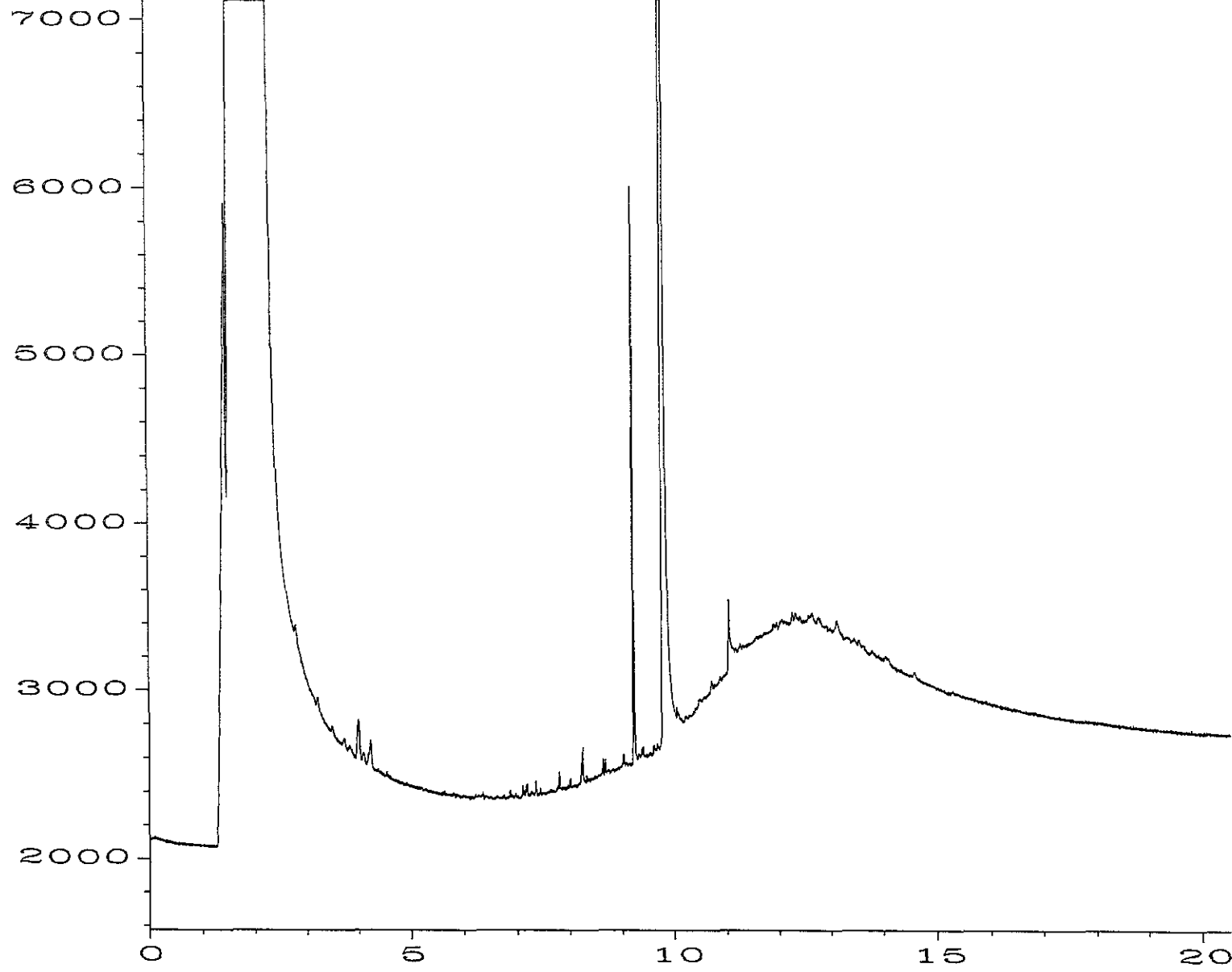
Report Created on: 31 Oct 00 02:30 PM

Page Number : 1
 Vial Number : 13
 Injection Number : 1
 Sequence Line : 8
 Instrument Method: TPHDX.MTH
 Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\014F0801.D
Operator : me
Instrument : GC #6
Sample Name : 010145-06 1:10
Run Time Bar Code:
Acquired on : 30 Oct 00 10:58 PM
Report Created on: 31 Oct 00 02:31 PM

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 8
Instrument Method: TPHDX.MTH
Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\016F0801.D

Operator : me

Instrument : GC #6

Sample Name : 010145-08 1:10

Run Time Bar Code:

Acquired on : 30 Oct 00 11:51 PM

Report Created on: 31 Oct 00 02:31 PM

Page Number : 1

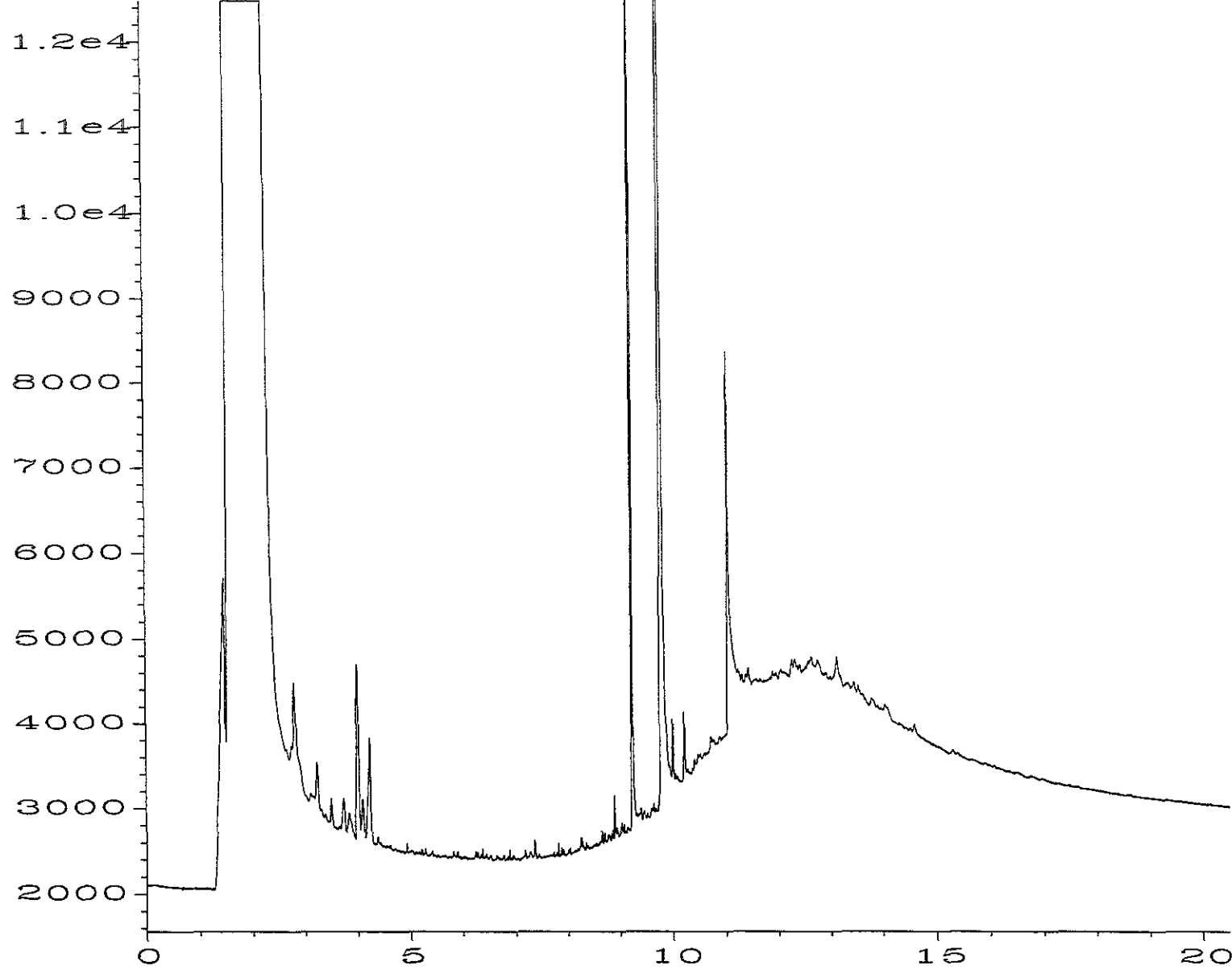
Vial Number : 16

Injection Number : 1

Sequence Line : 8

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\017F0801.D

Operator : me

Instrument : GC #6

Sample Name : 010145-09

Run Time Bar Code:

Acquired on : 31 Oct 00 00:17 AM

Report Created on: 31 Oct 00 02:32 PM

Page Number : 1

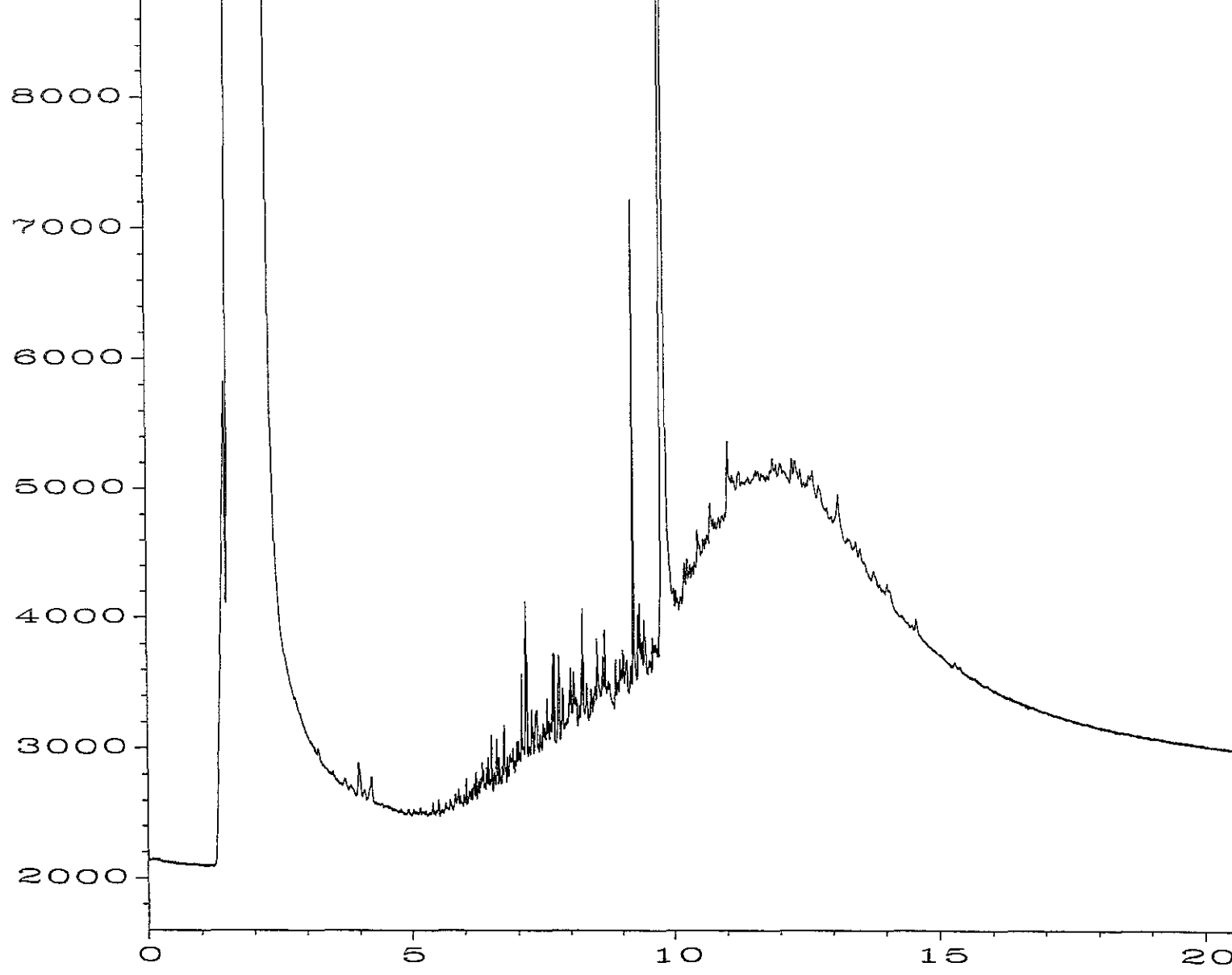
Vial Number : 17

Injection Number : 1

Sequence Line : 8

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\018F0801.D

Operator : me

Instrument : GC #6

Sample Name : 010145-10 1:10

Run Time Bar Code:

Acquired on : 31 Oct 00 00:44 AM

Report Created on: 31 Oct 00 02:35 PM

Page Number : 1

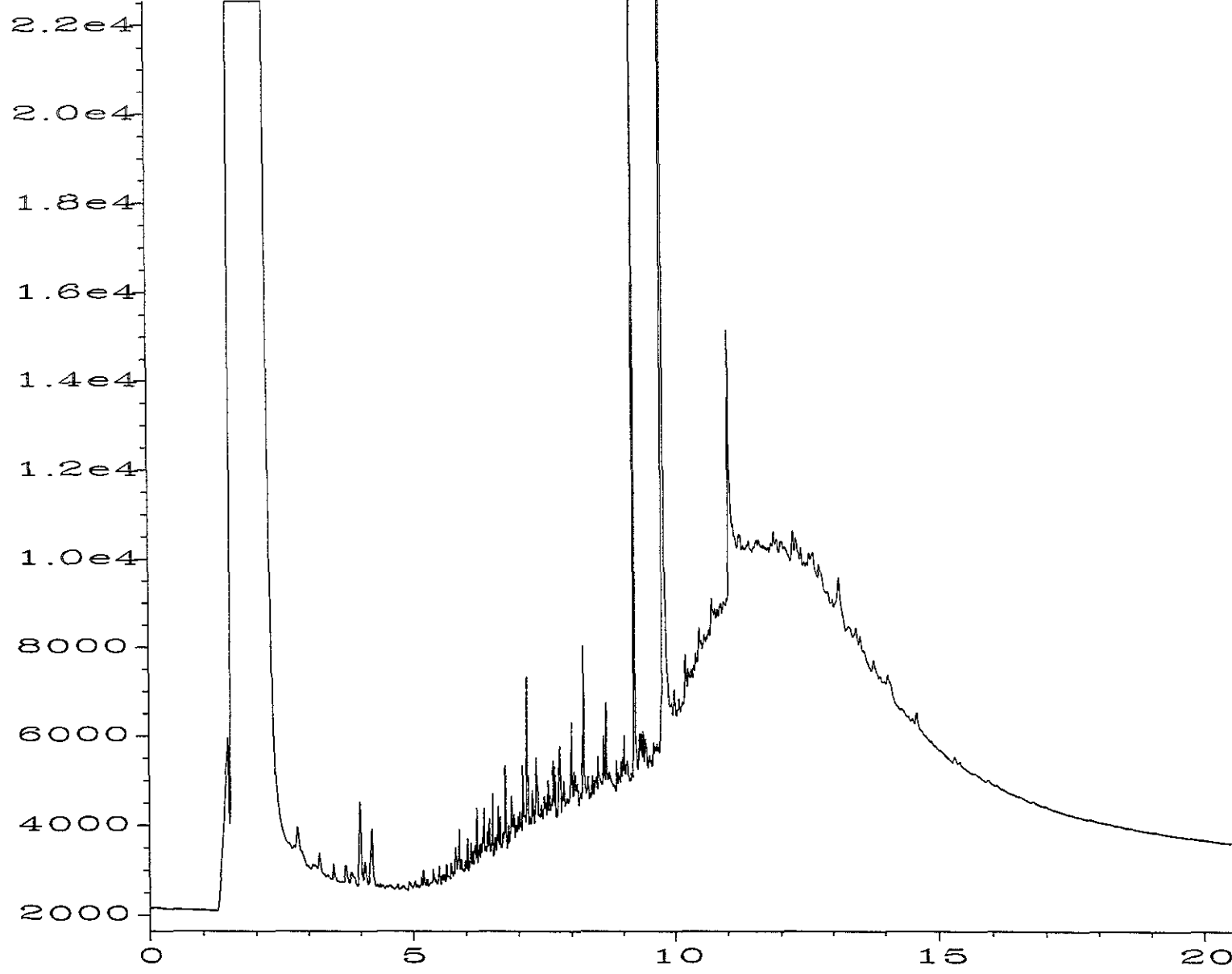
Vial Number : 18

Injection Number : 1

Sequence Line : 8

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\019F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-11

Run Time Bar Code:

Acquired on : 31 Oct 00 02:59 AM

Report Created on: 31 Oct 00 02:35 PM

Page Number : 1

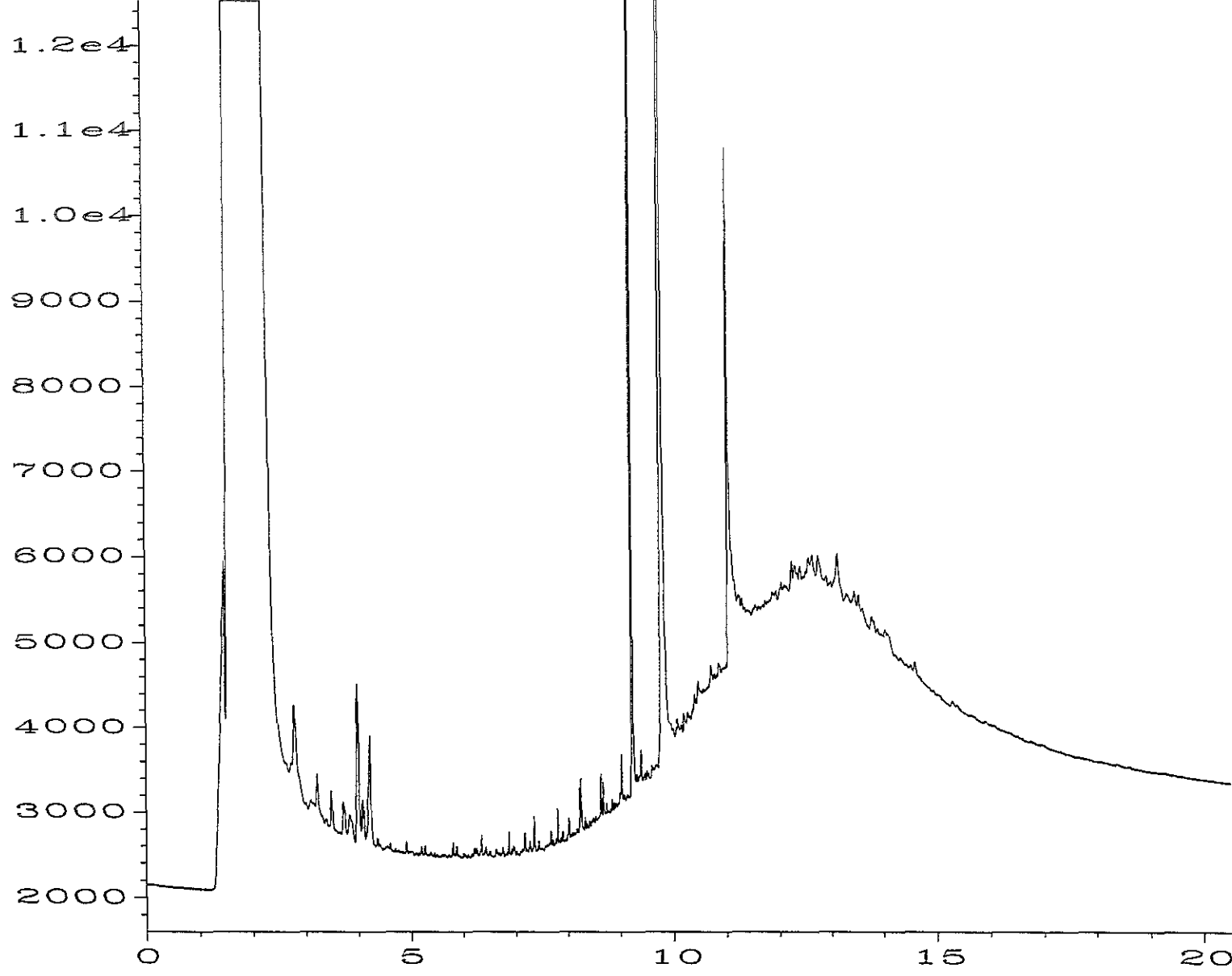
Vial Number : 19

Injection Number : 1

Sequence Line : 12

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\021F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-13

Run Time Bar Code:

Acquired on : 31 Oct 00 03:55 AM

Report Created on: 31 Oct 00 02:35 PM

Page Number : 1

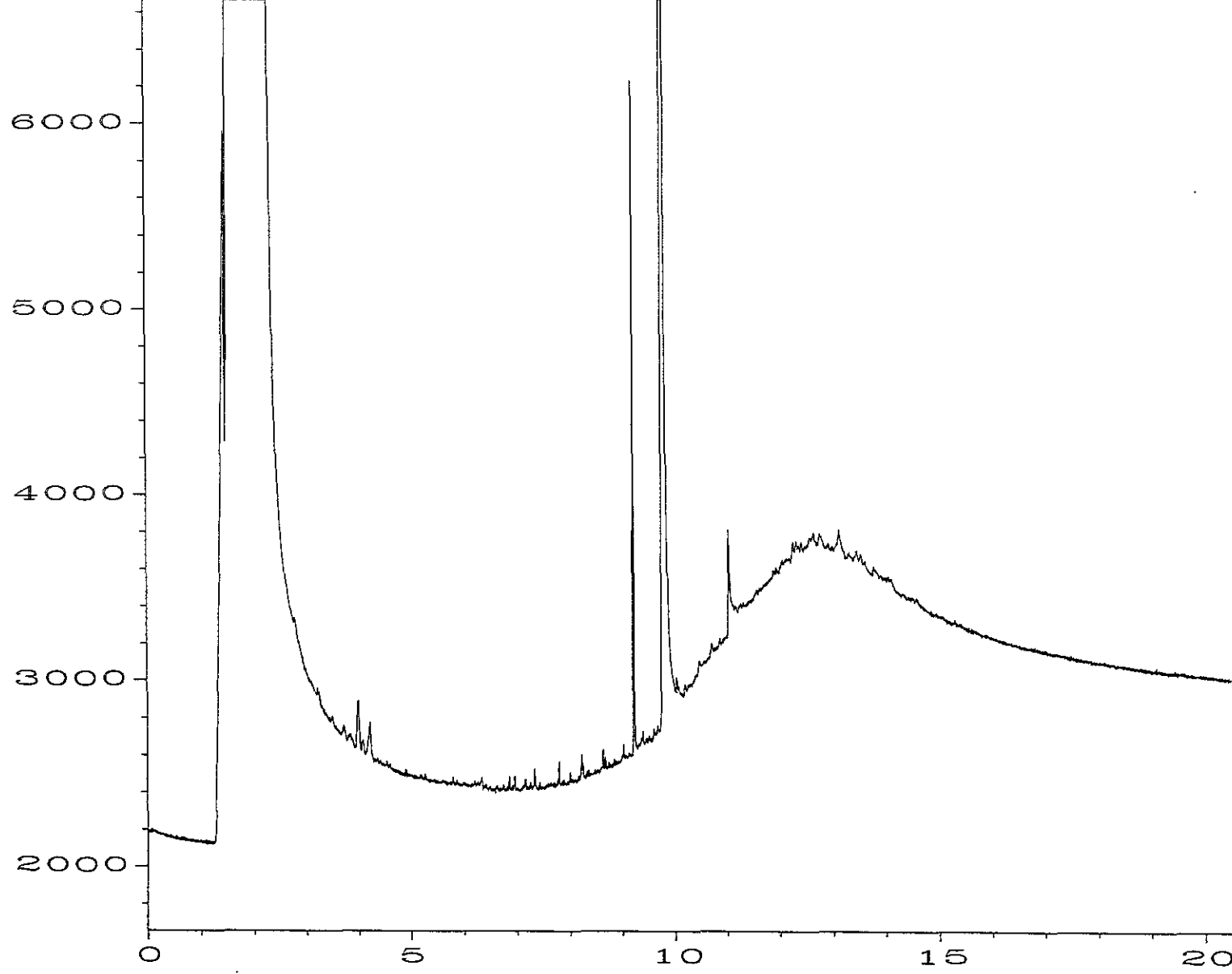
Vial Number : 21

Injection Number : 1

Sequence Line : 12

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\022F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-14 1:10

Run Time Bar Code:

Acquired on : 31 Oct 00 04:21 AM

Report Created on: 31 Oct 00 02:36 PM

Page Number : 1

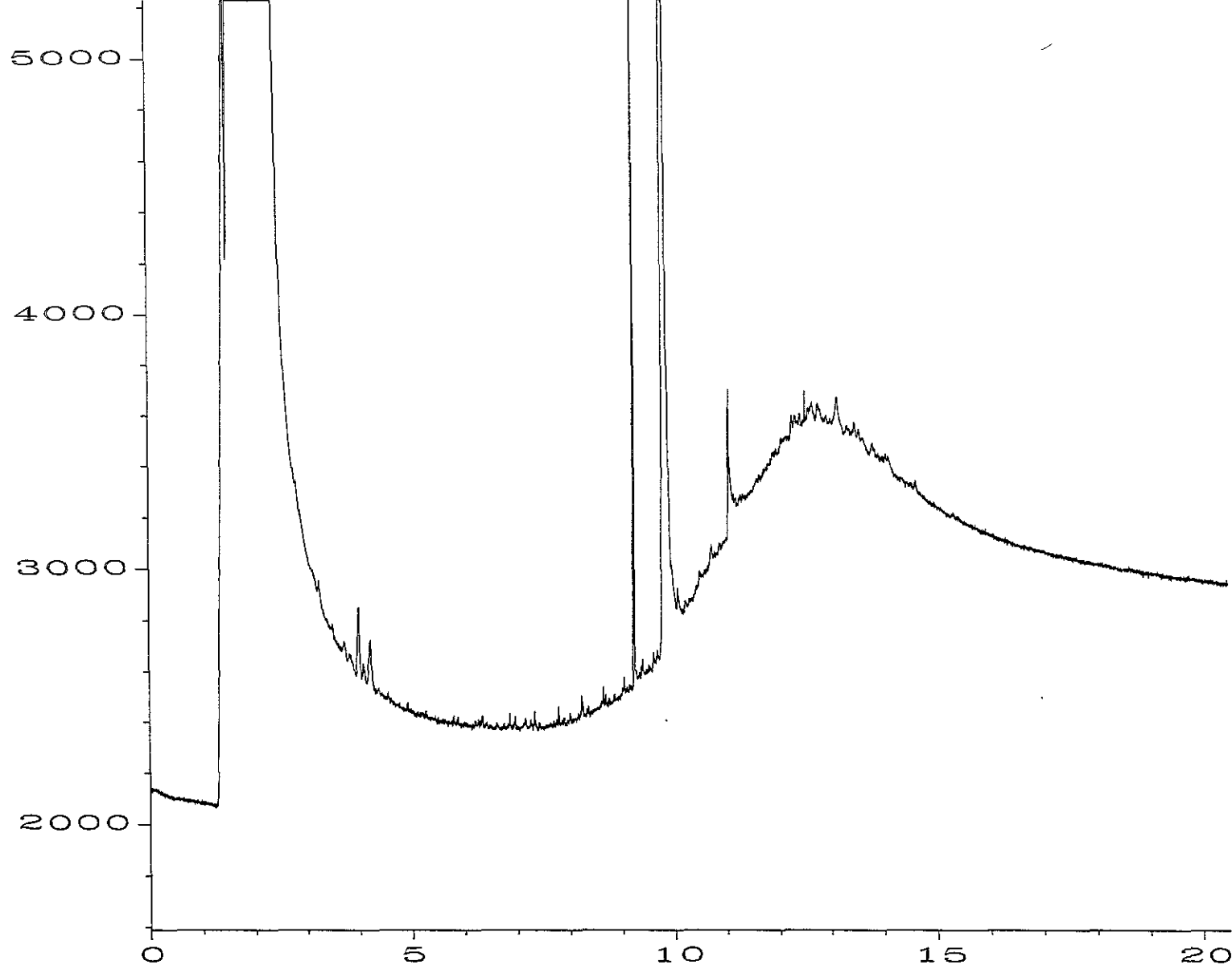
Vial Number : 22

Injection Number : 1

Sequence Line : 12

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\023F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-15 1:10

Run Time Bar Code:

Acquired on : 31 Oct 00 04:48 AM

Report Created on: 31 Oct 00 02:36 PM

Page Number : 1

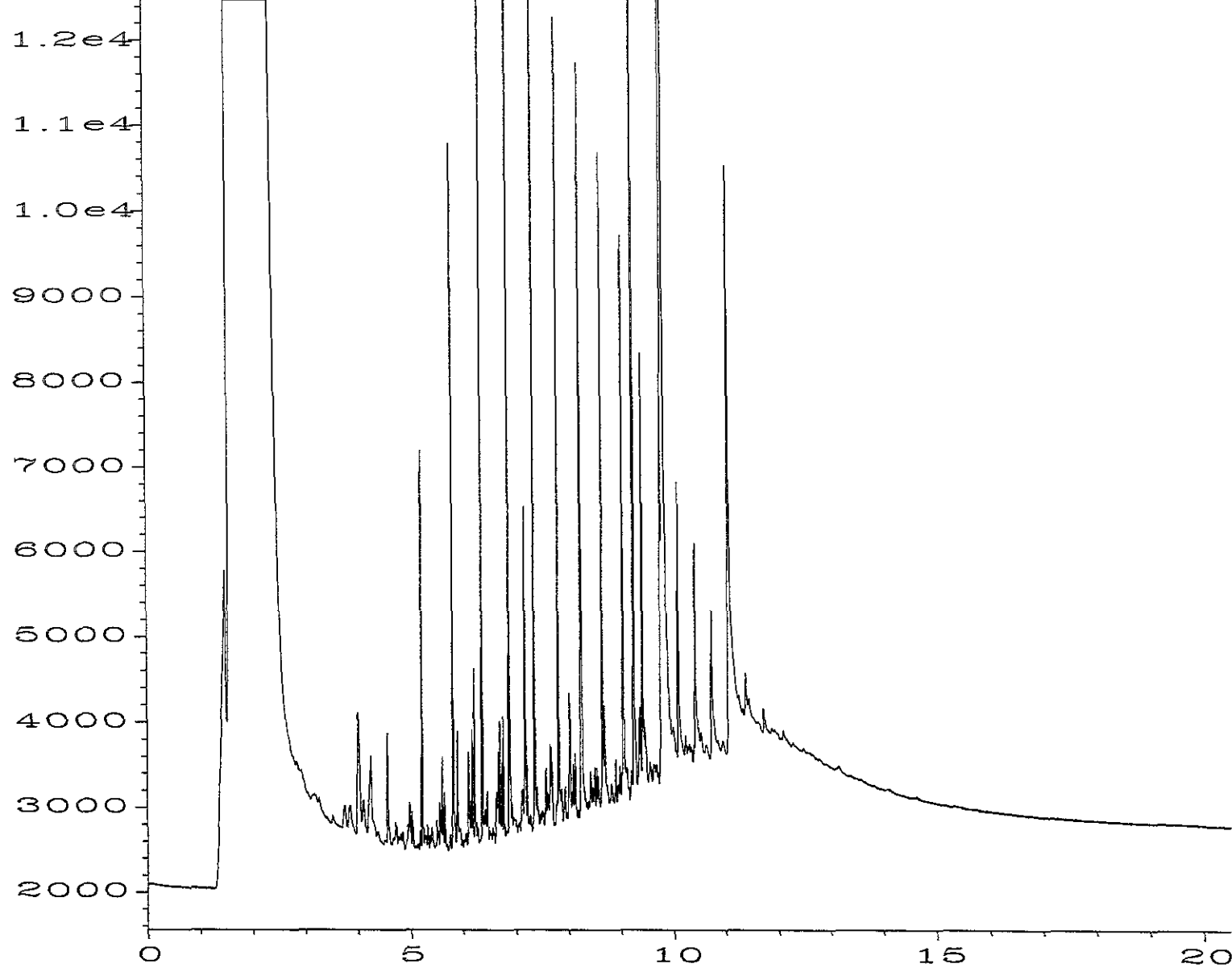
Vial Number : 23

Injection Number : 1

Sequence Line : 12

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\025F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-17

Run Time Bar Code:

Acquired on : 31 Oct 00 05:39 AM

Report Created on: 31 Oct 00 02:36 PM

Page Number : 1

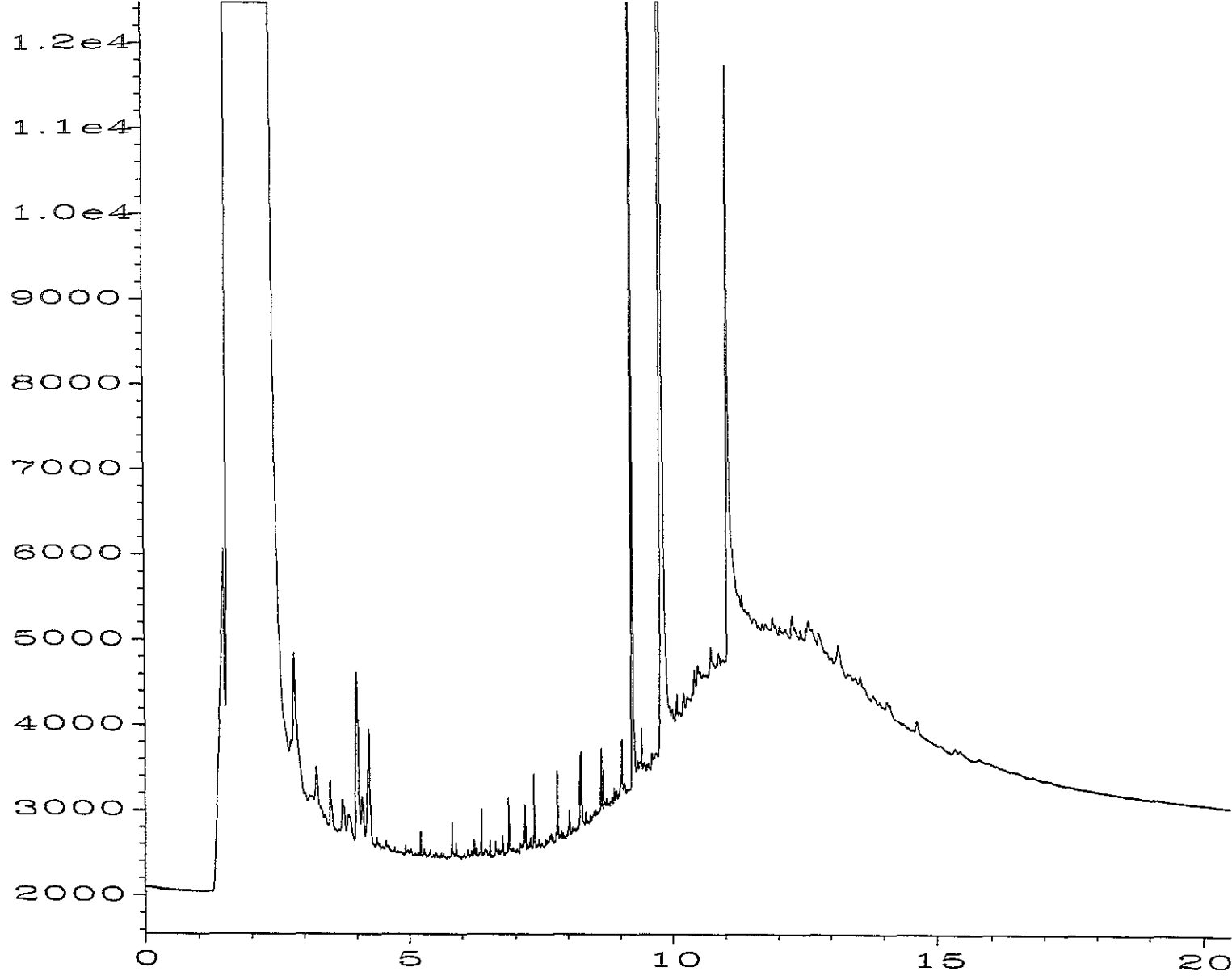
Vial Number : 25

Injection Number : 1

Sequence Line : 12

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\026F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-18

Run Time Bar Code:

Acquired on : 31 Oct 00 06:06 AM

Report Created on: 31 Oct 00 02:37 PM

Page Number : 1

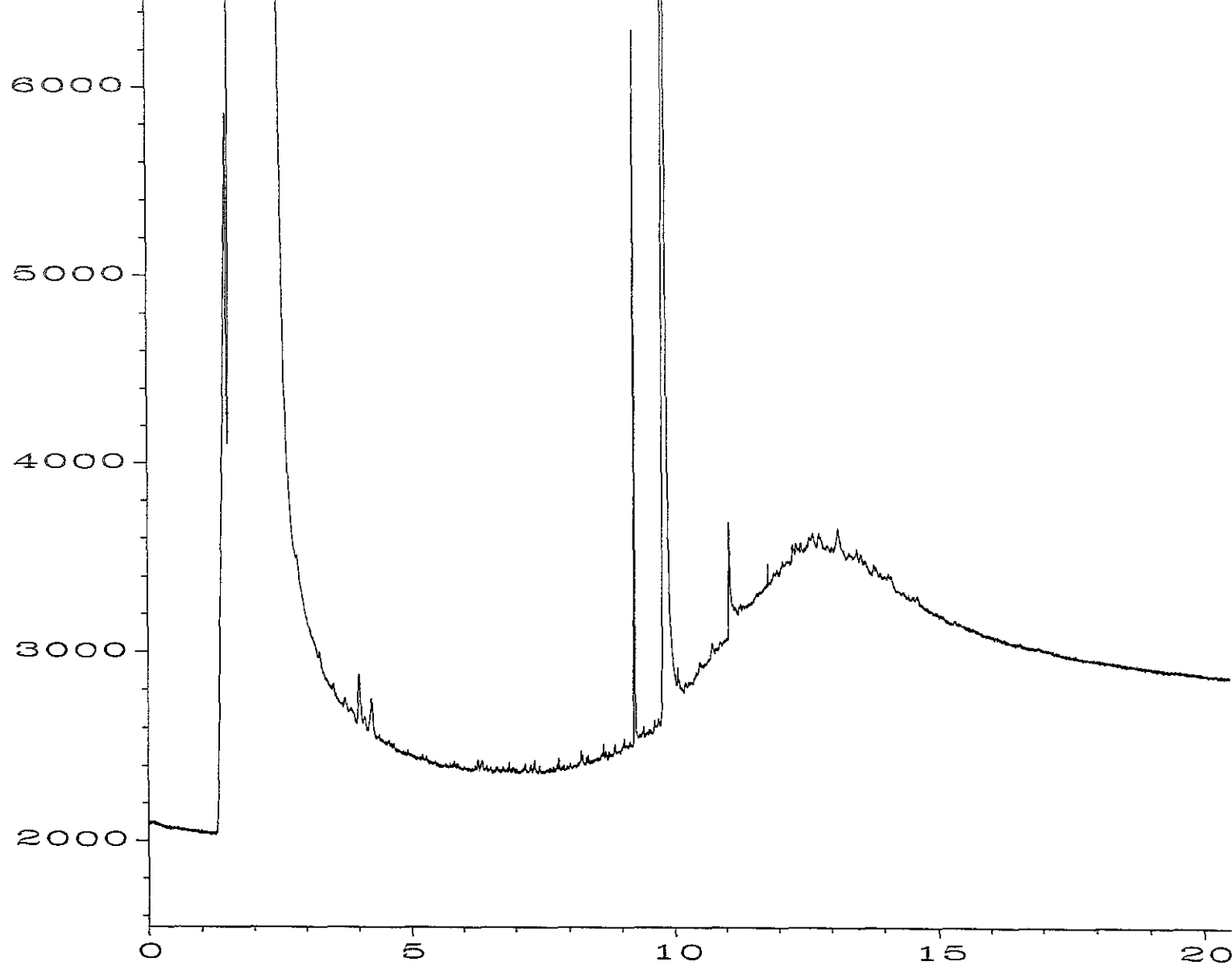
Vial Number : 26

Injection Number : 1

Sequence Line : 12

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\028F1201.D

Operator : me

Instrument : GC #6

Sample Name : 010145-20 1:10

Run Time Bar Code:

Acquired on : 31 Oct 00 06:58 AM

Report Created on: 31 Oct 00 02:37 PM

Page Number : 1

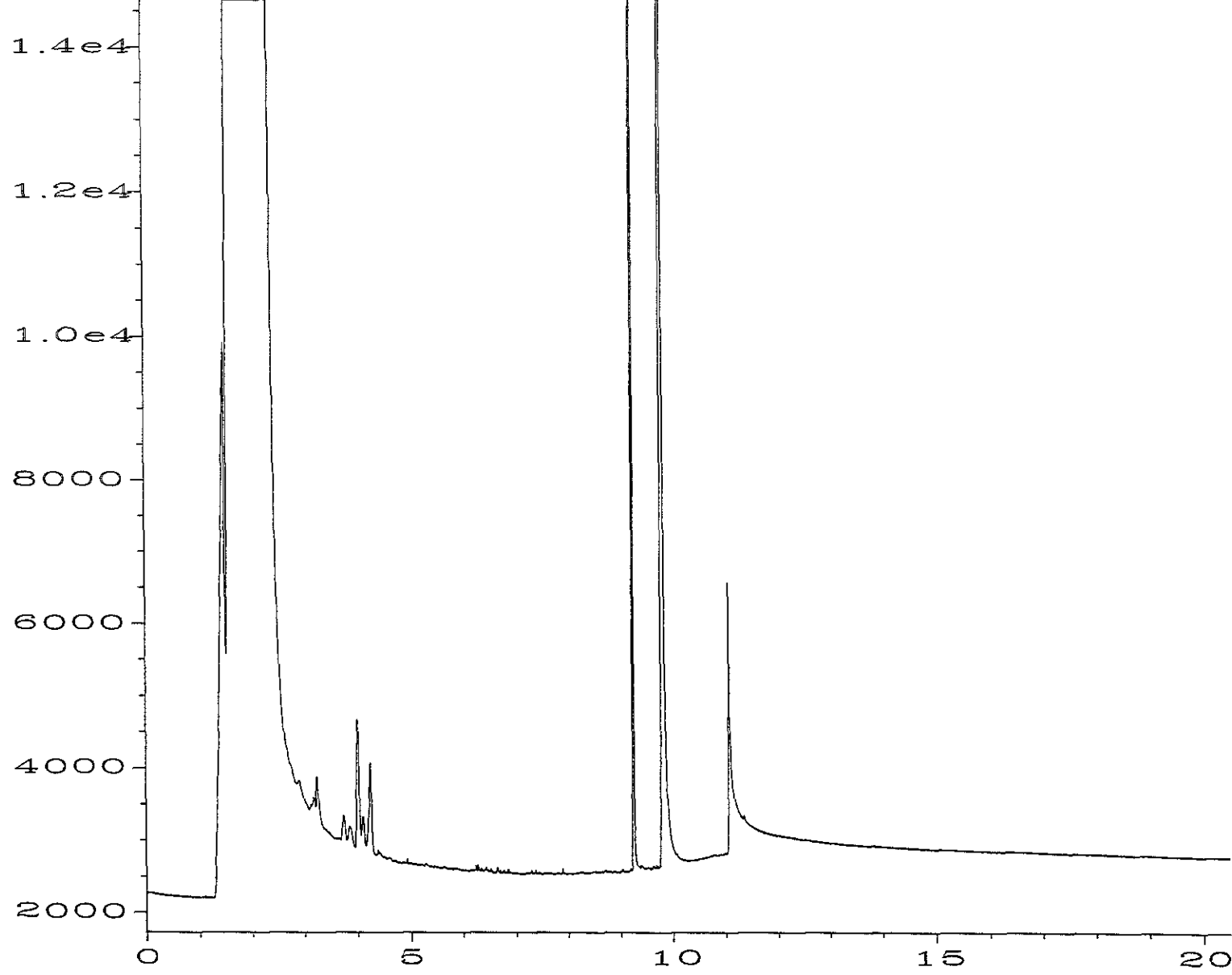
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Injection Number : 1

Sequence Line : 12

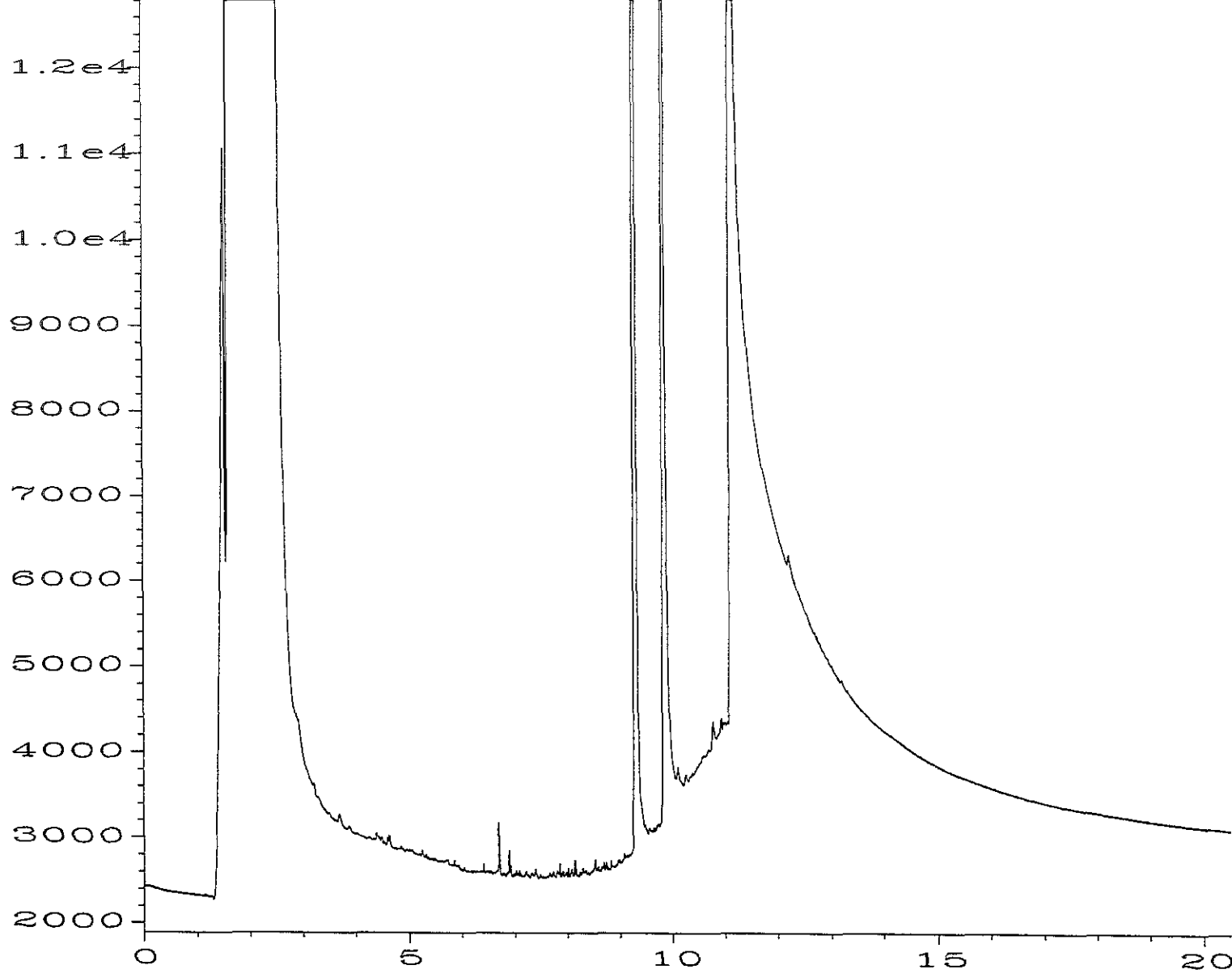
Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\004F0401.D

Operator	: me	Page Number	: 1
Instrument	: GC #6	Vial Number	: 4
Sample Name	: 00-710 MB	Injection Number	: 1
Run Time Bar Code		Sequence Line	: 4
Acquired on	: 30 Oct 00 05:34 PM	Instrument Method	: TPHDX.MTH
Report Created on:	: 31 Oct 00 02:27 PM	Analysis Method	: DEFAULT.MTH



Data File Name : E:\GC6\10-30-00\002F0201.D

Operator : me

Instrument : GC #6

Sample Name : 500 MO 9-109

Run Time Bar Code:

Acquired on : 30 Oct 00 03:44 PM

Report Created on: 31 Oct 00 02:26 PM

Page Number : 1

Vial Number : 2

Injection Number : 1

Sequence Line : 2

Instrument Method: TPHDX.MTH

Analysis Method : DEFAULT.MTH