SELECTED REFERENCE
10 VOL 4

SEMIVOLATILES ANALYSIS DATA PACKAGE
ARDL REPORT NO. 9883
CORPS OF ENGINEERS - PORTLAND DISTRICT
ANNETTE ISLAND SITE

VOLUME 4

ARDL Inc.

applied research & development laboratory

CHEMISTRY • BIOLOGY • PHYSIOLOGY
ENGINEERING • ENVIRONMENTAL ANALYSIS

P.O. Box 1566 • Mt. Vernon Airport, Route 15 East • Mt. Vernon, Illinois 62864 • (618) 244-3235 • FAX (618) 244-1149
"Test Everything - Keep The Good" 1 Thes. 5:21

SEMIVOLATILES ANALYSIS DATA PACKAGE
ARDL REPORT NO. 9883
CORPS OF ENGINEERS - PORTLAND DISTRICT
ANNETTE ISLAND SITE

VOLUME 4

40000

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ARDL, INC. Contract: ANNETTE ISLAND

Lab code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	ANN94TR00101	68	69	100	27	40	79		0
02	ANN94TR00101MS	69	73	106	28	41	84		0
03	ANN94TR00101MSD	71	74	100	25	35	79		0
04	ANN94TR00201	62	69	85	11	11 *	37		1
05	ANN94TR00301	73	77	96	29	46	82		0
06	BLANK B4011	75	75	103	30	46	81		0
07									
08									
09									
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		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10- 94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

3C TCLP
TCLP SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ARDL, INC. Contract: ANNETTE ISLAND

Lab code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

Matrix Spike - EPA Sample No.: ANN94TR00101

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONC (ug/L)	MS CONC (ug/L)	MSD CONC (ug/L)	BIAS CORRECT FACTOR
Pyridine	50.00	0.00	15.00	15.00	30
1,4-Dichlorobenzene	50.00	0.00	19.00	23.00	42
2-Methylphenol	50.00	0.00	30.00	24.00	54
3&4 Methylphenol	100.00	0.00	56.00	45.00	50
Hexachloroethane	50.00	0.00	17.00	21.00	38
Nitrobenzene	50.00	0.00	34.00	36.00	70
Hexachlorobutadiene	50.00	0.00	17.00	21.00	38
2,4,6-Trichlorophenol	50.00	0.00	35.00	31.00	66
2,4,5-Trichlorophenol	50.00	0.00	41.00	35.00	76
2,4-Dinitrotoluene	50.00	0.00	36.00	36.00	72
Hexachlorobenzene	50.00	0.00	42.00	40.00	82
Pentachlorophenol	50.00	0.00	48.00	43.00	91

BIAS CORRECTION FACTOR = AVERAGE % RECOVERY OF MS & MSD

COMMENTS:

FORM III SVOA-1 1/87 Rev.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

.b Name: ARDL, INC. Contract: ---

.b Code: --- Case No.: --- SAS No.: --- SDG No.: ---

.b File ID: >M6749 Lab Sample ID: BLANK B4011

.te Extracted: 9/19/94 Extraction:(SepF/Cont/Sonc) SEPF

.te Analyzed: 9/20/94 Time Analyzed: 18:32

.trix: (soil/water) TCLP Level:(low/med) LOW

.strument ID: HP-6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ANN94TR00101	9883-1	>M6750	9/20/94
02	ANN94TR00101MS	9883-1MS	>M6751	9/20/94
03	ANN94TR00101MSD	9883-1MSD	>M6752	9/20/94
04	ANN94TR00201	9883-2	>M6753	9/20/94
05	ANN94TR00301	9883-3	>M6754	9/20/94
06				
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29				
30				

)MMENTS: _____

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANN94TR00101

ab Name: ARDL, INC. Contract: ANNETTE ISLAND

ab Code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

atrix: (soil/water) TCLP Lab Sample ID: 9883-1

ample wt/vol: 1000.0 (g/ml) mL Lab File ID: >M6750

evel: (low/med) LOW Date Received: 9/16/94

Moisture: --- decanted: (Y/N) N Date Extracted: 9/19/94

oncentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/94

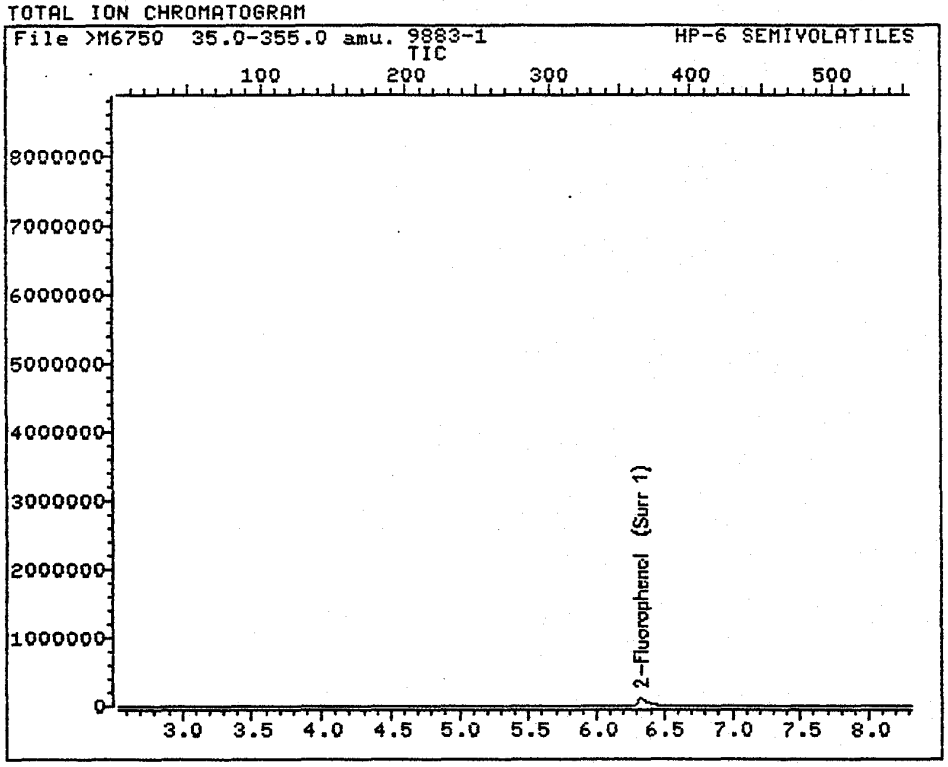
njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: 5.0

CLP Preparation Date: 9/16/94

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
110-86-1	Pyridine	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-48-7	2-Methylphenol (o-Cresol)	10	U
108-39-4	3 & 4-Methylphenol(m&p-Cresol)	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U

TOTAL ION CHROMATOGRAM



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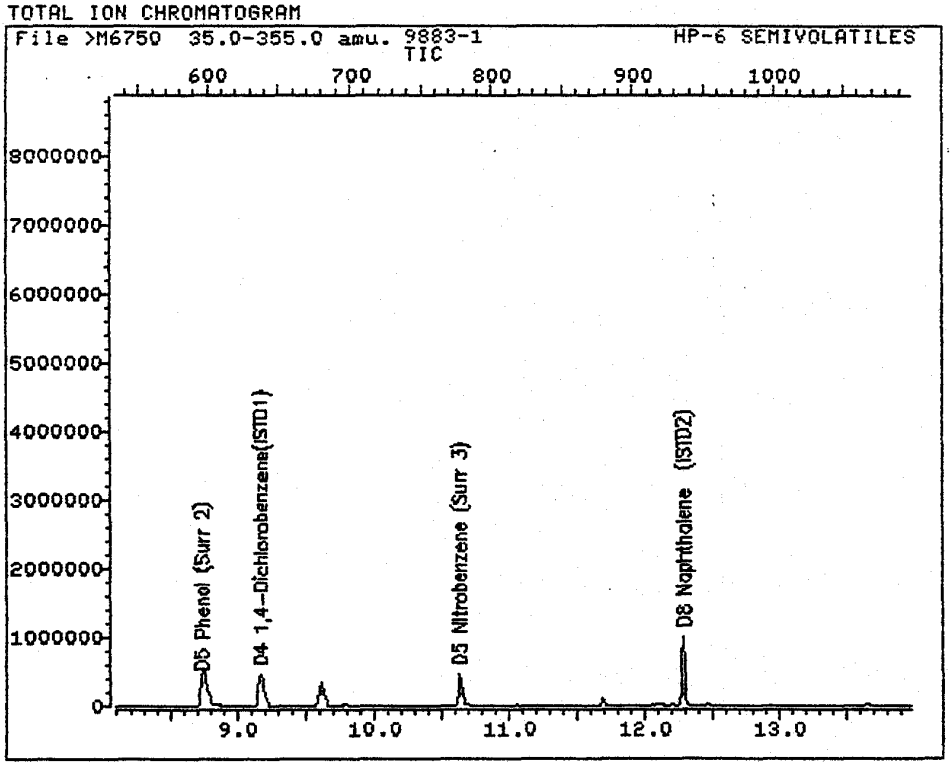
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:57
Injected at: 940920 19:18

TOTAL ION CHROMATOGRAM



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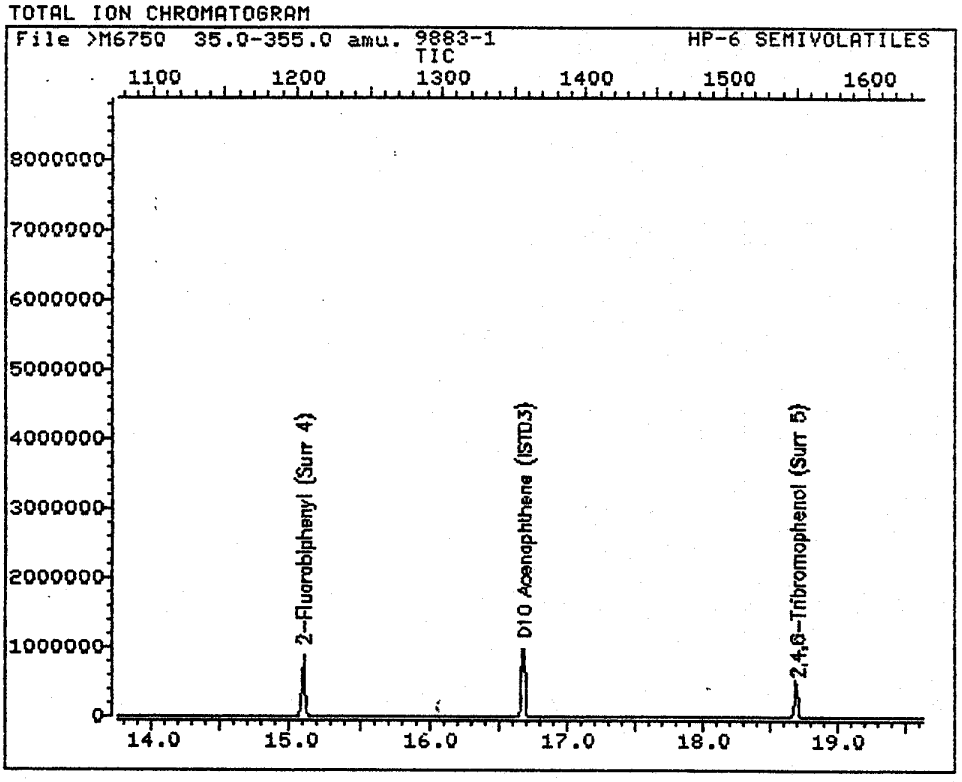
Name: 9883-1 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:57
Injected at: 940920 19:18

TOTAL ION CHROMATOGRAM



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Misc: HP-6 SEMIVOLATILES

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Instrument ID: HP00006

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Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:57
Injected at: 940920 19:18

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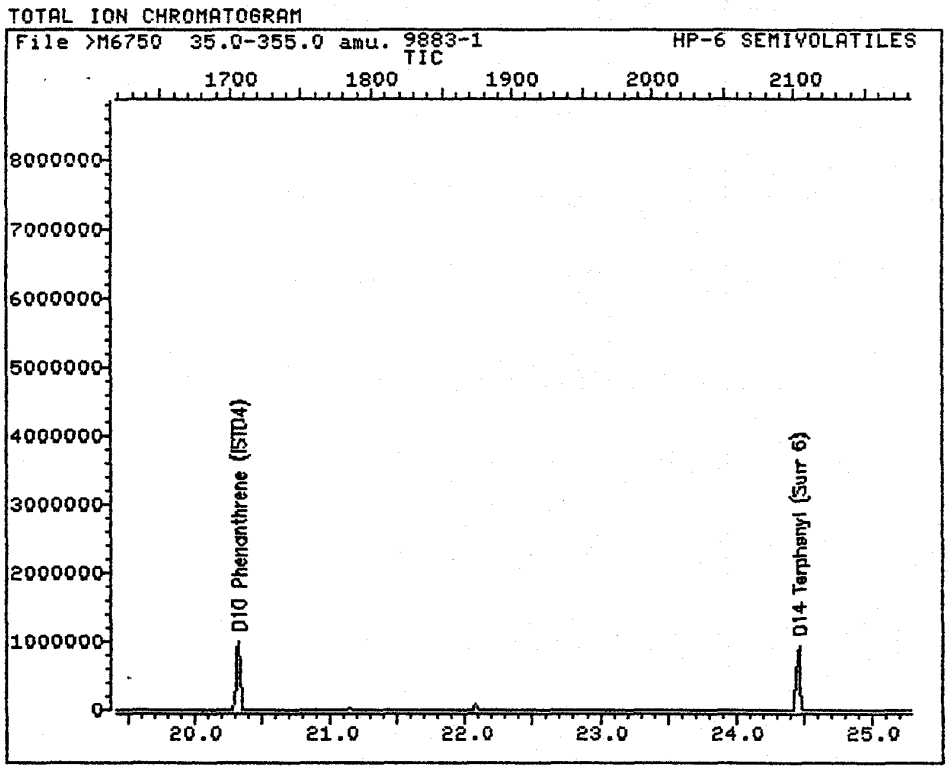

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Misc: HP-6 SEMIVOLATILES

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Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:57
Injected at: 940920 19:18

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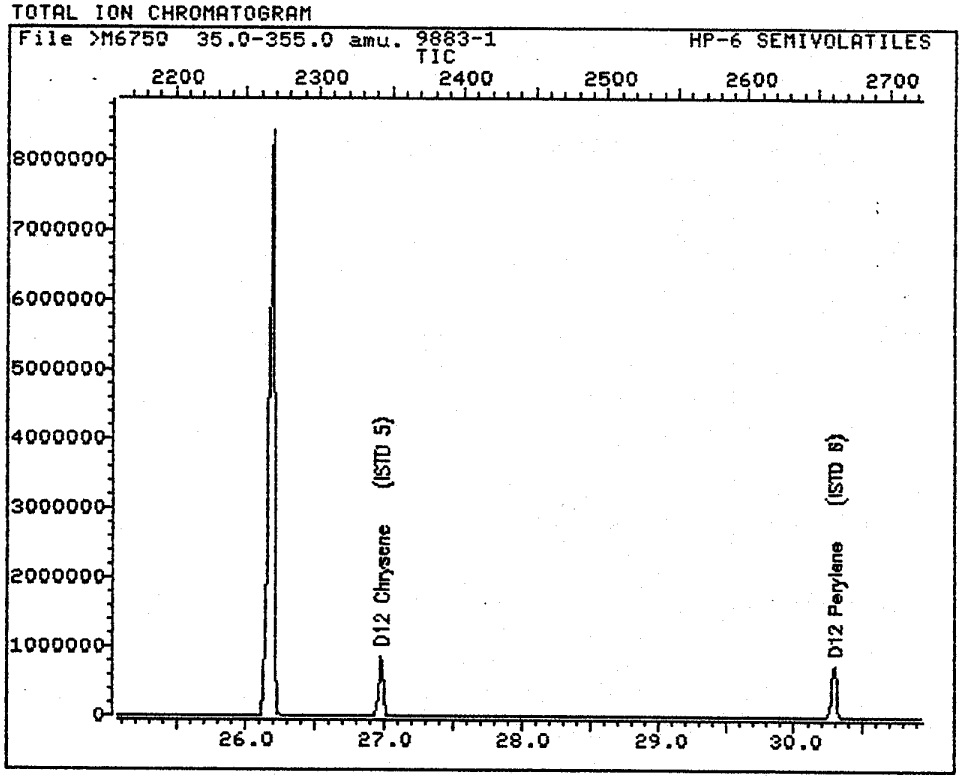

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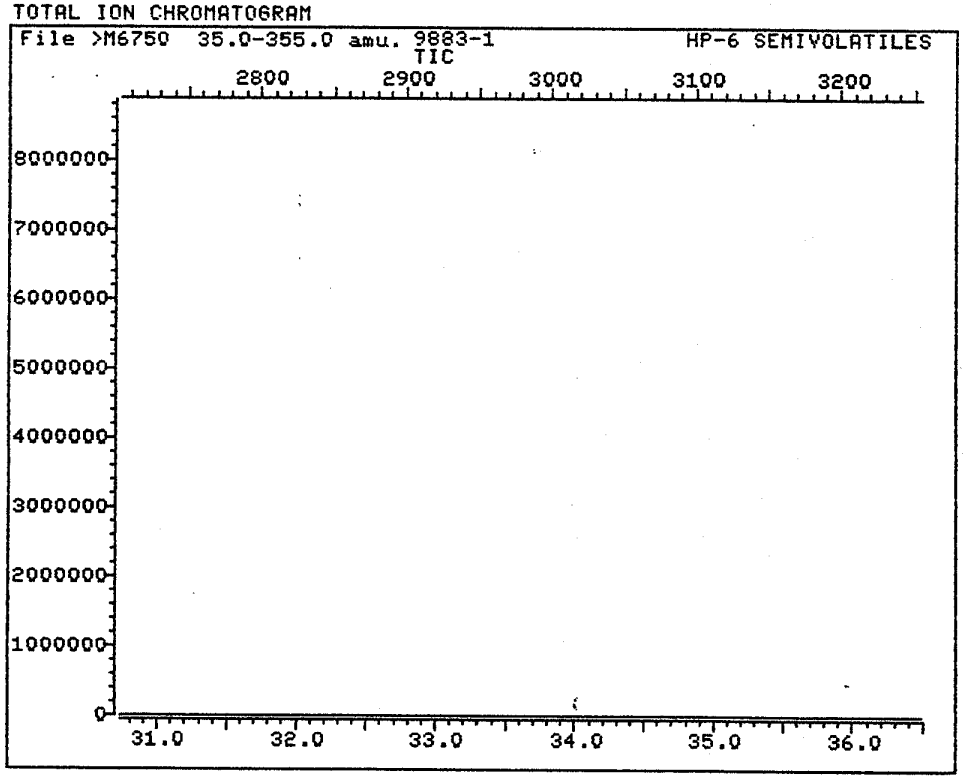
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:57
Injected at: 940920 19:18

TOTAL ION CHROMATOGRAM



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Instrument ID: HP00006

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Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:57
Injected at: 940920 19:18

QUANT REPORT

Operator ID: TIM
Output File: ^M6750::D1
Data File: >M6750::A7
Name: 9883-1
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940921 11:57
Injected at: 940920 19:18
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21
Last Qcal Time: 940920 17:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.18	637	209066	40.00	ug/L	94
3)	2-Fluorophenol (Surr 1)	6.33	364	219369	30.20	ug/L	68
4)	D5 Phenol (Surr 2)	8.74	595	203954	20.08	ug/L	71
11)	*D8 Naphthalene (ISTD2)	12.29	935	764165	40.00	ug/L	97
12)	D5 Nitrobenzene (Surr 3)	10.64	777	285339	34.20	ug/L	84
18)	*D10 Acenaphthene (ISTD3)	16.69	1357	434079	40.00	ug/L	92
22)	2-Fluorobiphenyl (Surr 4)	15.10	1205	454470	34.69	ug/L	98
27)	2,4,6-Tribromophenol (Surr 5)	18.70	1550	107592	59.55	ug/L	96
28)	*D10 Phenanthrene (ISTD4)	20.33	1706	651977	40.00	ug/L	64
33)	*D12 Chrysene (ISTD 5)	26.98	2343	597493	40.00	ug/L	85
34)	D14 Terphenyl (Surr 6)	24.47	2103	595700	49.83	ug/L	76
35)	*D12 Perylene (ISTD 6)	30.30	2662	471080	40.00	ug/L	96

* Compound is ISTD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANN94TR00201

ıb Name: ARDL, INC. Contract: ANNETTE ISLAND

ıb Code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

ıtrix: (soil/water) TCLP Lab Sample ID: 9883-2

ımple wt/vol: 1000.0 (g/ml) mL Lab File ID: >M6753

evel: (low/med) LOW Date Received: 9/16/94

Moisture: --- decanted: (Y/N) N Date Extracted: 9/19/94

oncentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/94

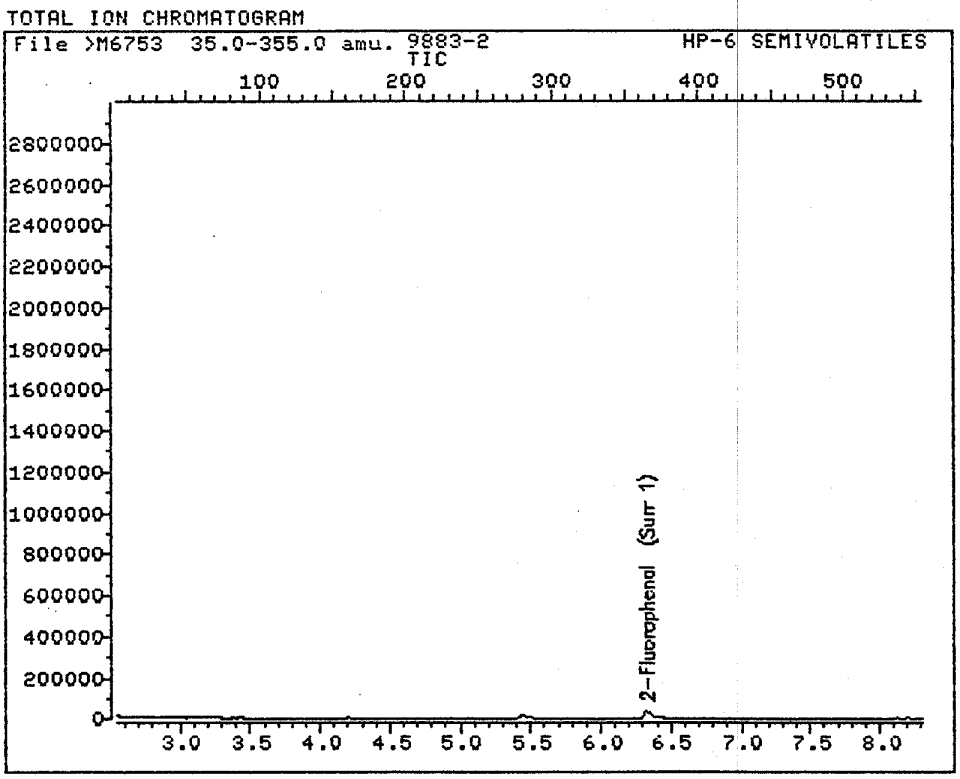
ıjection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: 4.8

CLP Preparation Date: 9/16/94

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
110-86-1	Pyridine	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-48-7	2-Methylphenol (o-Cresol)	10	U
108-39-4	3 & 4-Methylphenol(m&p-Cresol)	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U

TOTAL ION CHROMATOGRAM



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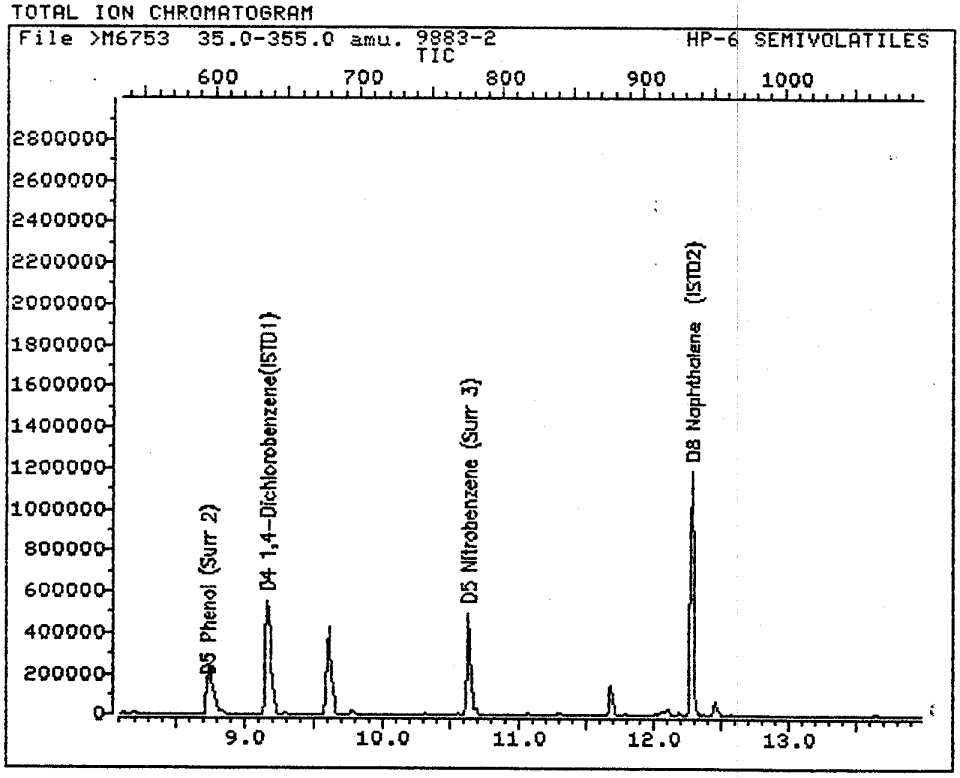
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:02
Injected at: 940920 21:36

TOTAL ION CHROMATOGRAM



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Misc: HP-6 SEMIVOLATILES

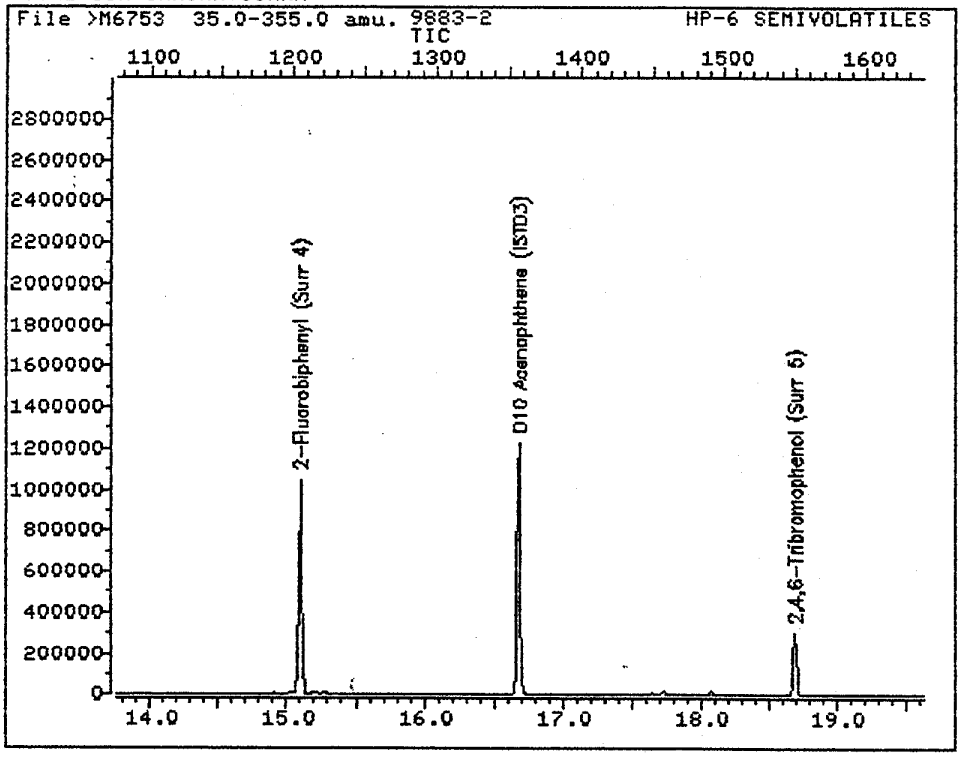
Quant Output File: ^M6753::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:02
Injected at: 940920 21:36

TOTAL ION CHROMATOGRAM



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Name: 9883-2
Misc: HP-6 SEMIVOLATILES

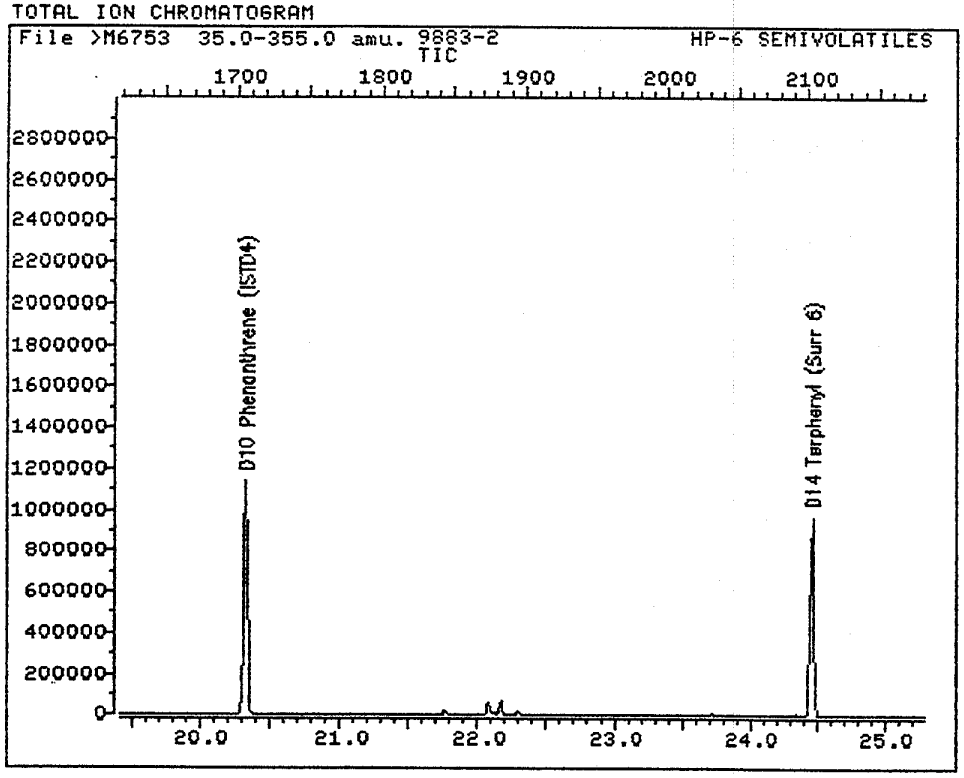
Quant Output File: ^M6753::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:02
Injected at: 940920 21:36

TOTAL ION CHROMATOGRAM



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Name: 9883-2
Misc: HP-6 SEMIVOLATILES

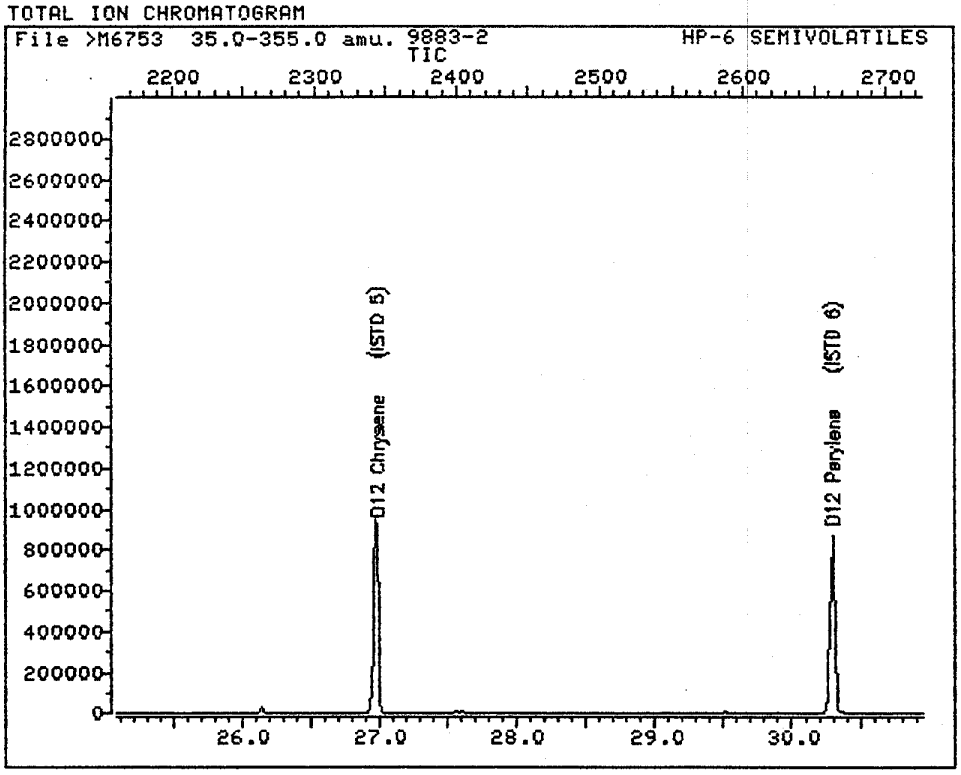
Quant Output File: ^M6753::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:02
Injected at: 940920 21:36

TOTAL ION CHROMATOGRAM



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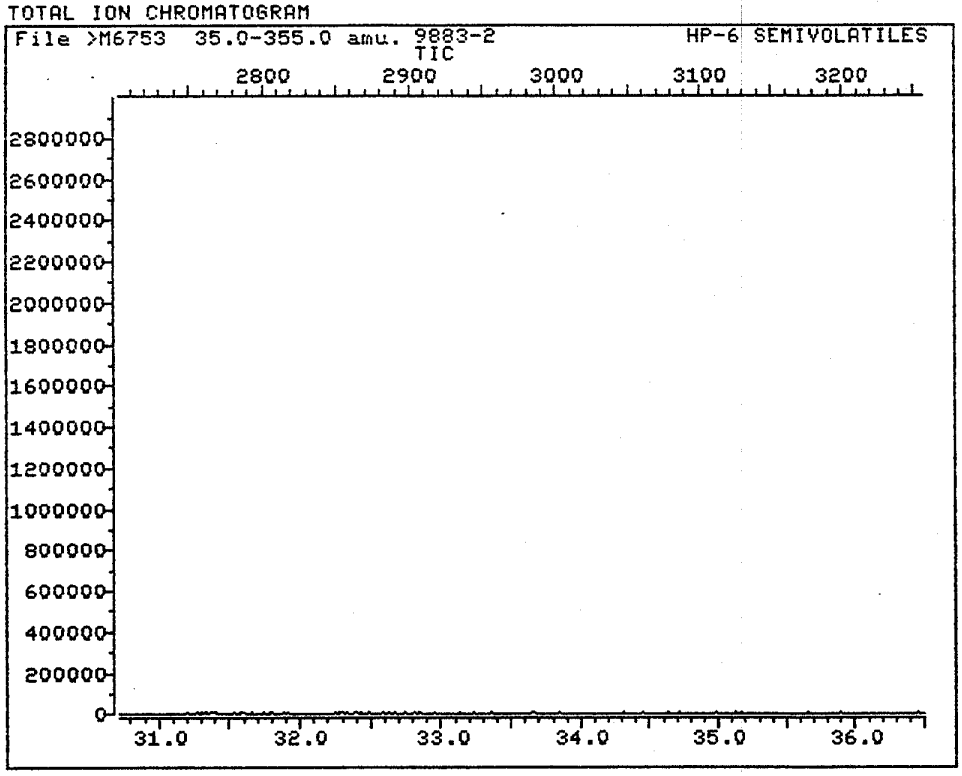
Name: 9883-2 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:02
Injected at: 940920 21:36

TOTAL ION CHROMATOGRAM



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Name: 9883-2 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:02
Injected at: 940920 21:36

QUANT REPORT

Operator ID: TIM
Output File: ^M6753::D1
Data File: >M6753::A7
Name: 9883-2
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940921 12:02
Injected at: 940920 21:36
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21
Last Qcal Time: 940920 17:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.16	636	239795	40.00	ug/L	96
3)	2-Fluorophenol (Surr 1)	6.33	364	68654	8.24	ug/L	76
4)	D5 Phenol (Surr 2)	8.74	595	98536	8.46	ug/L	69
11)	*D8 Naphthalene (ISTD2)	12.28	935	897041	40.00	ug/L	96
12)	D5 Nitrobenzene (Surr 3)	10.64	777	303764	31.01	ug/L	85
18)	*D10 Acenaphthene (ISTD3)	16.69	1357	505239	40.00	ug/L	90
22)	2-Fluorobiphenyl (Surr 4)	15.10	1205	529832	34.75	ug/L	98
27)	2,4,6-Tribromophenol (Surr 5)	18.69	1549	58800	27.96	ug/L	97
28)	*D10 Phenanthrene (ISTD4)	20.33	1706	735351	40.00	ug/L	63
33)	*D12 Chrysene (ISTD 5)	26.98	2344	690355	40.00	ug/L	88
34)	D14 Terphenyl (Surr 6)	24.47	2103	584307	42.30	ug/L	73
35)	*D12 Perylene (ISTD 6)	30.30	2662	565702	40.00	ug/L	97

* Compound is ISTD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANN94TR00301

ab Name: ARDL, INC. Contract: ANNETTE ISLAND

ab Code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

atrix: (soil/water) TCLP Lab Sample ID: 9883-3

ample wt/vol: 1000.0 (g/ml) mL Lab File ID: >M6754

evel: (low/med) LOW Date Received: 9/16/94

Moisture: --- decanted: (Y/N) N Date Extracted: 9/19/94

oncentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/94

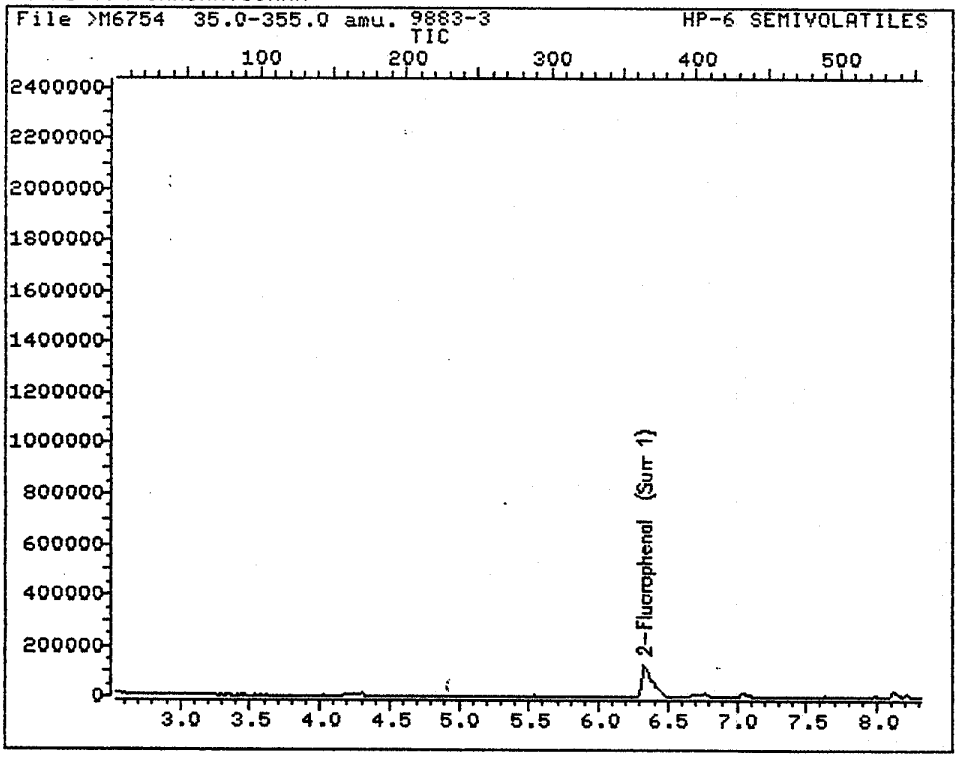
njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: 4.9

CLP Preparation Date: 9/16/94

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
110-86-1	Pyridine	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-48-7	2-Methylphenol (o-Cresol)	10	U
108-39-4	3 & 4-Methylphenol(m&p-Cresol)	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U

TOTAL ION CHROMATOGRAM



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Misc: HP-6 SEMIVOLATILES

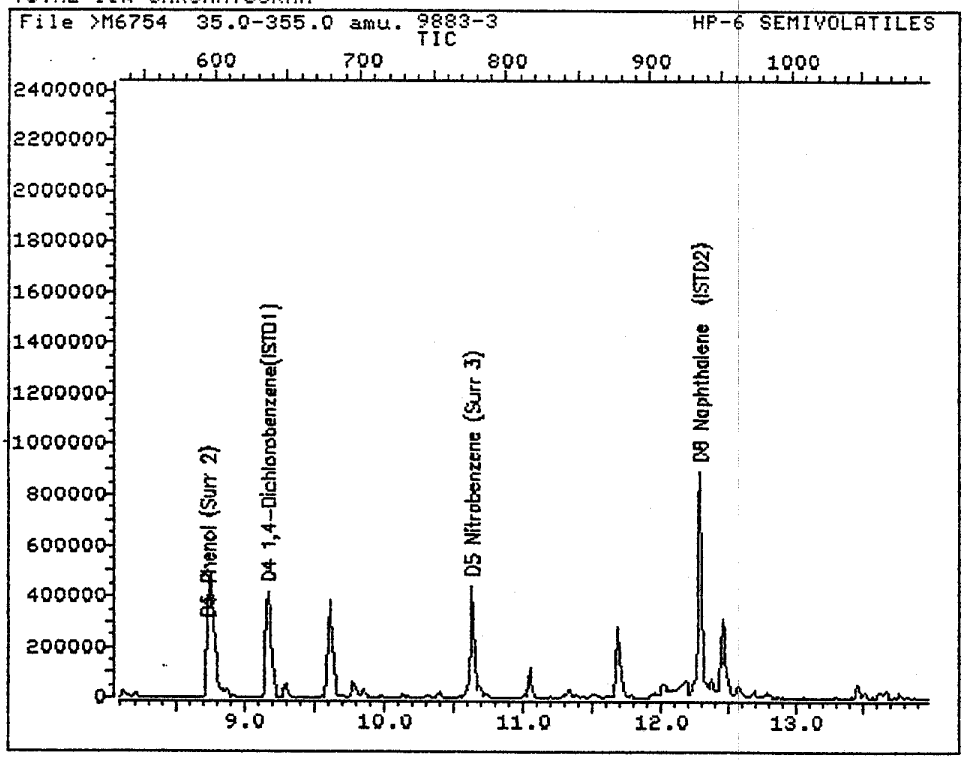
Quant Output File: ^M6754::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:04
Injected at: 940920 22:22

TOTAL ION CHROMATOGRAM



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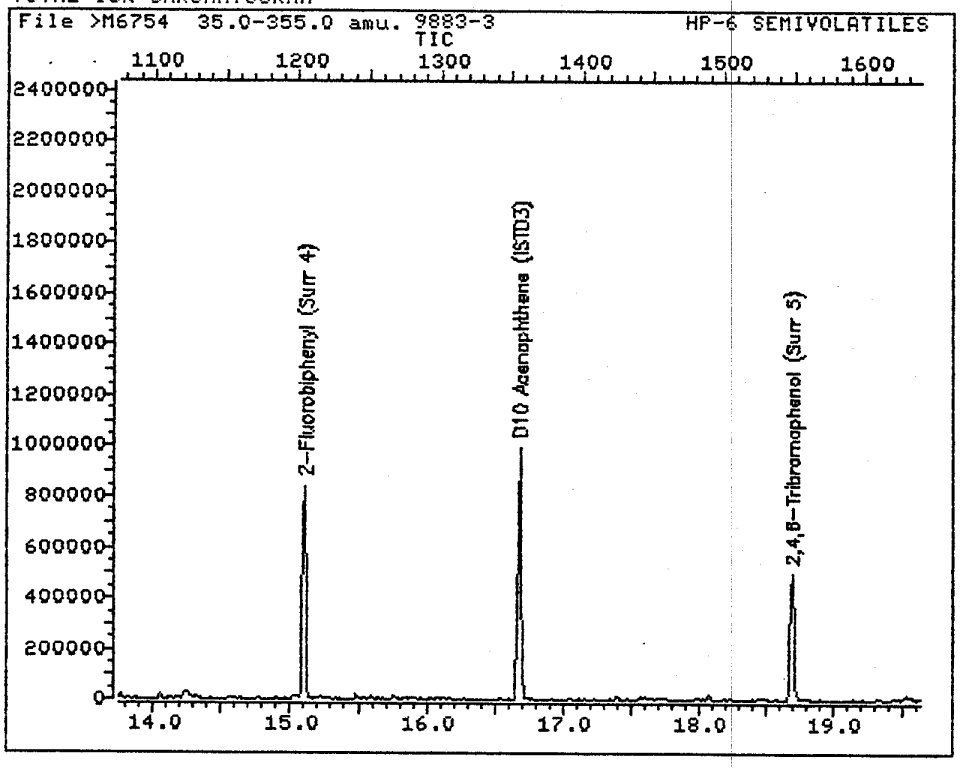
Quant Output File: ^M6754::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:04
Injected at: 940920 22:22

TOTAL ION CHROMATOGRAM



Data File: >M6754::A7
Name: 9883-3
Misc: HP-6 SEMIVOLATILES

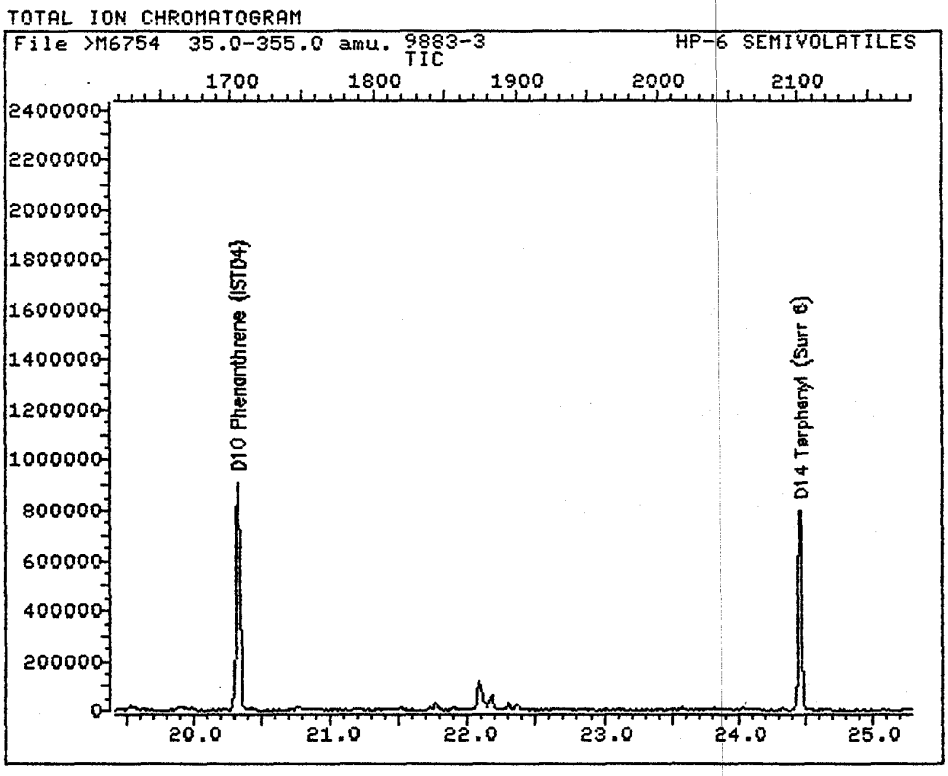
Quant Output File: ^M6754::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:04
Injected at: 940920 22:22

TOTAL ION CHROMATOGRAM



Data File: >M6754::A7
Name: 9883-3
Misc: HP-6 SEMIVOLATILES

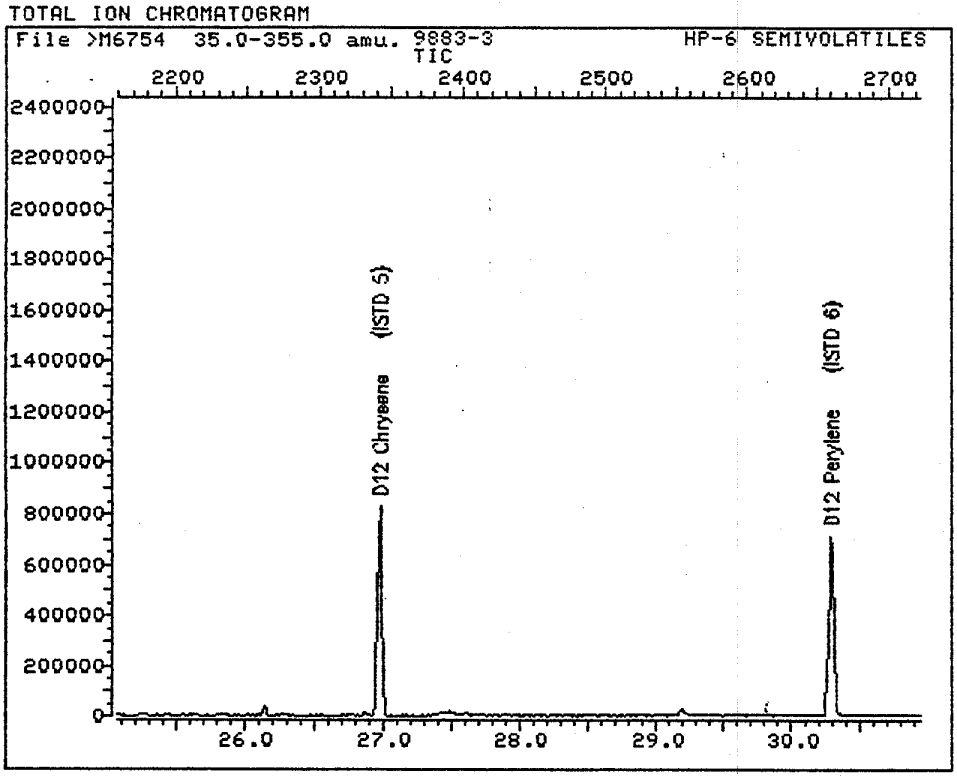
Quant Output File: ^M6754::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:04
Injected at: 940920 22:22

TOTAL ION CHROMATOGRAM

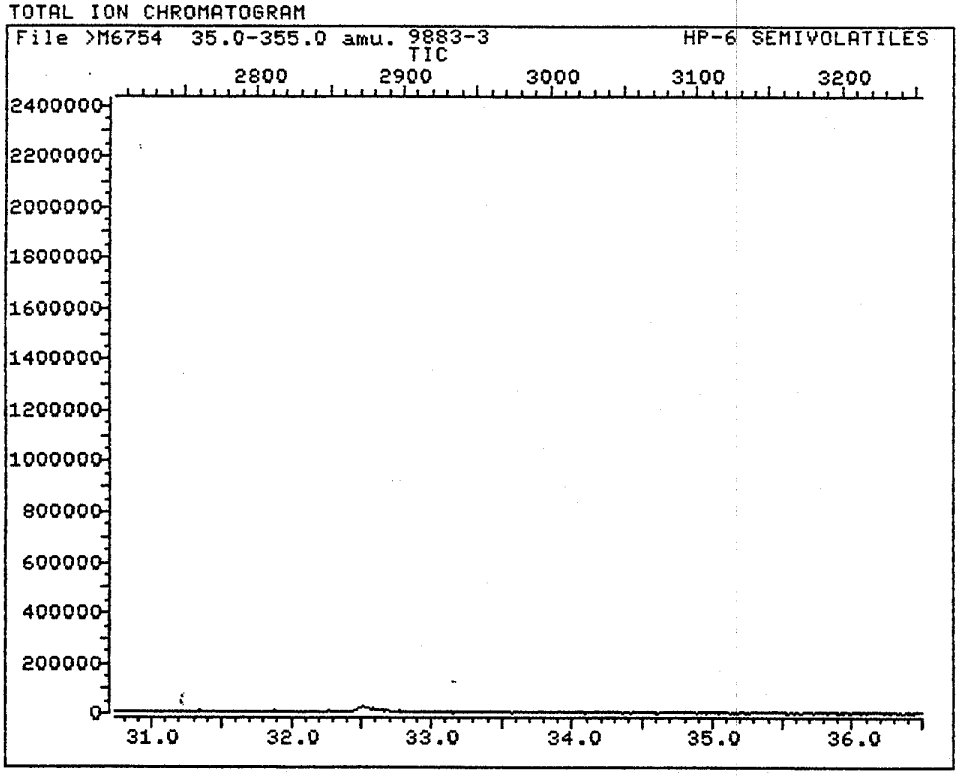


Data File: >M6754::A7 Quant Output File: ^M6754::D1
Name: 9883-3 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:04
Injected at: 940920 22:22

TOTAL ION CHROMATOGRAM



Data File: >M6754::A7 Quant Output File: ^M6754::D1
Name: 9883-3 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:04
Injected at: 940920 22:22

QUANT REPORT

Operator ID: TIM
Output File: ^M6754::D1
Data File: >M6754::A7
Name: 9883-3
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940921 12:04
Injected at: 940920 22:22
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21
Last Qcal Time: 940920 17:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.18	637	182182	40.00	ug/L	96
3)	2-Fluorophenol (Surr 1)	6.33	364	219215	34.63	ug/L	72
4)	D5 Phenol (Surr 2)	8.74	595	195422	22.08	ug/L	68
11)	*D8 Naphthalene (ISTD2)	12.29	935	669862	40.00	ug/L	95
12)	D5 Nitrobenzene (Surr 3)	10.64	777	266282	36.41	ug/L	84
18)	*D10 Acenaphthene (ISTD3)	16.68	1356	389032	40.00	ug/L	91
22)	2-Fluorobiphenyl (Surr 4)	15.11	1205	451436	38.45	ug/L	99
27)	2,4,6-Tribromophenol (Surr 5)	18.70	1549	100179	61.87	ug/L	97
28)	*D10 Phenanthrene (ISTD4)	20.33	1705	581414	40.00	ug/L	64
33)	*D12 Chrysene (ISTD 5)	26.98	2342	536854	40.00	ug/L	87
34)	D14 Terphenyl (Surr 6)	24.47	2102	515871	48.03	ug/L	78
35)	*D12 Perylene (ISTD 6)	30.30	2660	442495	40.00	ug/L	96

* Compound is ISTD

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ARDL, INC. Contract: ---

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: ---

Lab File ID: >BT920 DFTPP Injection Date: 9/20/94

Instrument ID: HP-6 DFTPP Injection Time: 10:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	56.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	41.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 1.00% of mass 198	1.98
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	60.9
443	17.0 - 23.0% of mass 442	11.5(18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

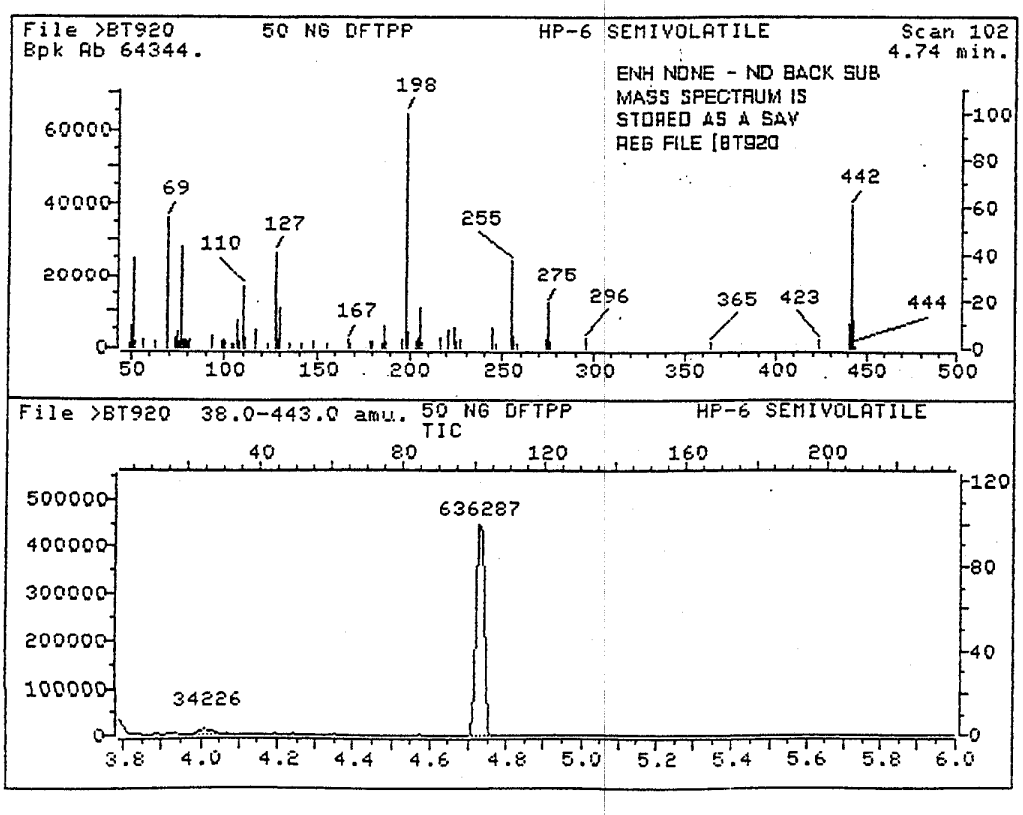
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA STD	160 NG STD A	>M6740	9/20/94	11:18
02	BNA STD	050 NG STD	>M6743	9/20/94	13:37
03	BNA STD	020 NG STD	>M6744	9/20/94	14:23
04	BNA STD	160 NG STD B	>M6745	9/20/94	15:10
05	BNA STD	120 NG STD	>M6746	9/20/94	15:56
06	BNA STD	10 NG STD	>M6747	9/20/94	16:42
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

GC/MS PERFORMANCE STANDARD

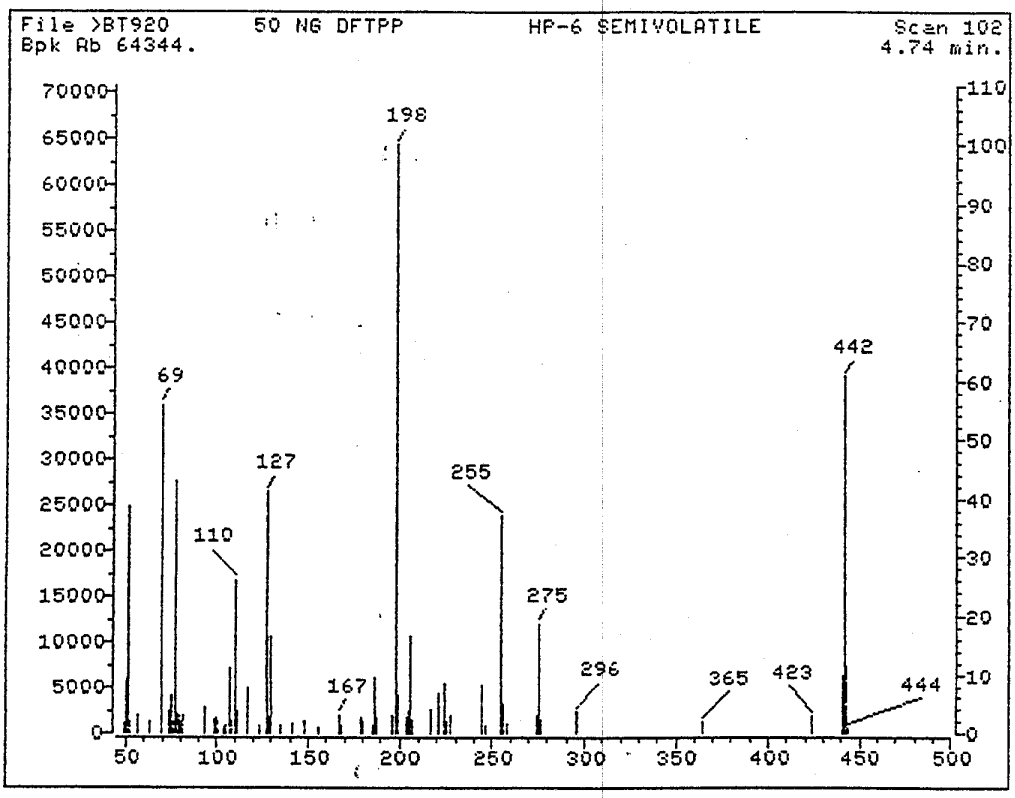
Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	38.57	38.57	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	55.95	55.95	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	41.17	41.17	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.56	6.56	Ok
275	10-30% of mass 198	18.74	18.74	Ok
365	Greater than 1% of mass 198	1.98	1.98	Ok
441	0-100% of mass 443	9.90	86.45	Ok
442	Greater than 40% of mass 198	60.86	60.86	Ok
443	17-23% of mass 442	11.45	18.82	Ok

Injection Date: 09/20/94
Injection Time: 10:14
Data File: >BT920
Scan: 102



40029



Instrument ID: HP0000 Analyzed on: 9/20/94 10:14

›BT920 50 NG DFTPP HP-6 SEMIVOLATILE
102 NRM

'ile: >BT920 Scan #: 102 Retn. time: 4.74

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.95	3.537	79.90	2.238	127.00	41.166	186.95	2.676	245.95	1.279
48.95	1.641	81.00	3.194	128.00	2.916	195.95	3.222	254.95	37.225
49.95	9.267	92.95	4.429	129.00	16.482	197.95	100.000	255.95	5.223
51.05	38.568	97.95	2.535	130.00	1.501	198.95	6.562	257.95	1.641
51.95	2.070	98.95	2.843	135.00	1.276	203.95	2.700	274.00	3.257
56.05	1.613	100.95	2.041	140.95	1.696	205.05	3.904	275.00	18.740
56.95	3.285	104.05	1.194	147.95	2.045	206.05	16.755	276.00	2.586
63.00	2.034	104.95	1.340	154.95	1.105	206.95	2.498	295.95	3.649
68.90	55.949	106.95	11.327	167.00	3.149	216.90	4.003	364.90	1.975
74.00	3.773	107.95	1.969	167.90	1.414	221.00	6.994	423.00	3.122
75.00	6.562	109.95	26.135	178.90	2.692	224.00	8.392	441.05	9.900
76.00	2.028	110.95	3.882	180.00	1.982	225.00	2.246	441.95	60.860
77.00	43.106	116.10	.970	184.95	1.393	226.90	2.999	442.95	11.451
78.00	3.567	116.90	7.704	185.95	9.421	243.95	8.119	443.95	.988
79.00	2.984	123.00	1.431						

Instrument ID: HP0000 Analyzed on: 9/20/94 10:14

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

ıb Name: ARDL, INC. Contract: ---

ıb Code: --- Case No.: --- SAS No.: --- SDG No.: ---

ıb File ID: >S20BT DFTPP Injection Date: 9/20/94

ıstrument ID: HP-6 DFTPP Injection Time: 17:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.4
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	66.
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	44.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	17.5
365	Greater than 1.00% of mass 198	1.83
441	Present, but less than mass 443	6.9
442	Greater than 40.0% of mass 198	40.4
443	17.0 - 23.0% of mass 442	7.5(18.5)2

1-Value is % mass 69 2-Value is % mass 442

ıIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

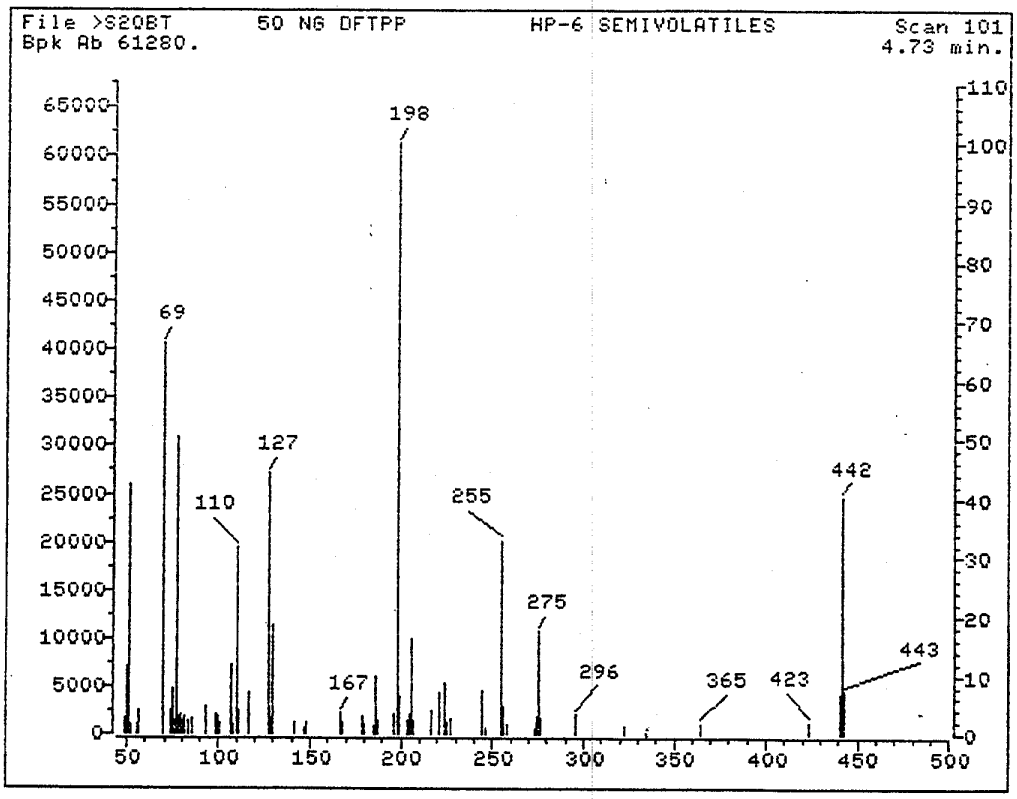
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNA STD	050 NG STD	>M6748	9/20/94	17:47
02	BLANK B4011	BLANK B4011	>M6749	9/20/94	18:32
03	ANN94TR00101	9883-1	>M6750	9/20/94	19:18
04	ANN94TR00101MS	9883-1MS	>M6751	9/20/94	20:04
05	ANN94TR00101MSD	9883-1MSD	>M6752	9/20/94	20:50
06	ANN94TR00201	9883-2	>M6753	9/20/94	21:36
07	ANN94TR00301	9883-3	>M6754	9/20/94	22:22
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

>S20BT 50 NG DFTPP HP-6 SEMIVOLATILES
101 NRM

File: >S20BT Scan #: 101 Retn. time: 4.73

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.95	4.409	80.00	2.358	127.00	44.295	195.95	3.469	254.95	33.016
48.95	2.959	80.90	3.123	128.00	2.892	197.95	100.000	255.95	4.731
50.05	11.730	83.00	1.061	129.00	18.784	198.95	6.410	257.95	1.663
51.05	42.402	83.90	2.350	129.90	1.797	204.05	2.526	273.00	1.175
52.05	1.699	85.90	2.653	140.95	2.056	205.05	3.373	274.00	2.993
55.95	1.699	92.95	4.837	147.05	1.124	206.05	16.252	275.00	17.544
56.95	4.217	97.95	3.401	147.95	1.991	207.05	2.469	276.00	2.755
68.90	66.201	98.95	3.133	167.00	3.650	216.90	4.065	295.95	3.430
74.00	4.240	100.95	2.136	167.90	1.986	221.00	7.025	323.00	1.420
75.00	7.846	107.05	11.795	179.00	3.009	224.00	8.884	364.90	1.834
76.00	2.570	107.95	1.883	180.00	1.888	225.00	2.250	423.00	2.218
77.00	50.601	110.05	31.697	184.95	1.369	227.00	2.924	441.05	6.947
78.00	3.233	110.95	4.251	185.95	9.785	244.05	7.404	442.05	40.379
79.00	3.430	117.00	7.201	186.95	2.384	245.95	1.257	442.95	7.466

Instrument ID: HP0000 Analyzed on: 9/20/94 17:32



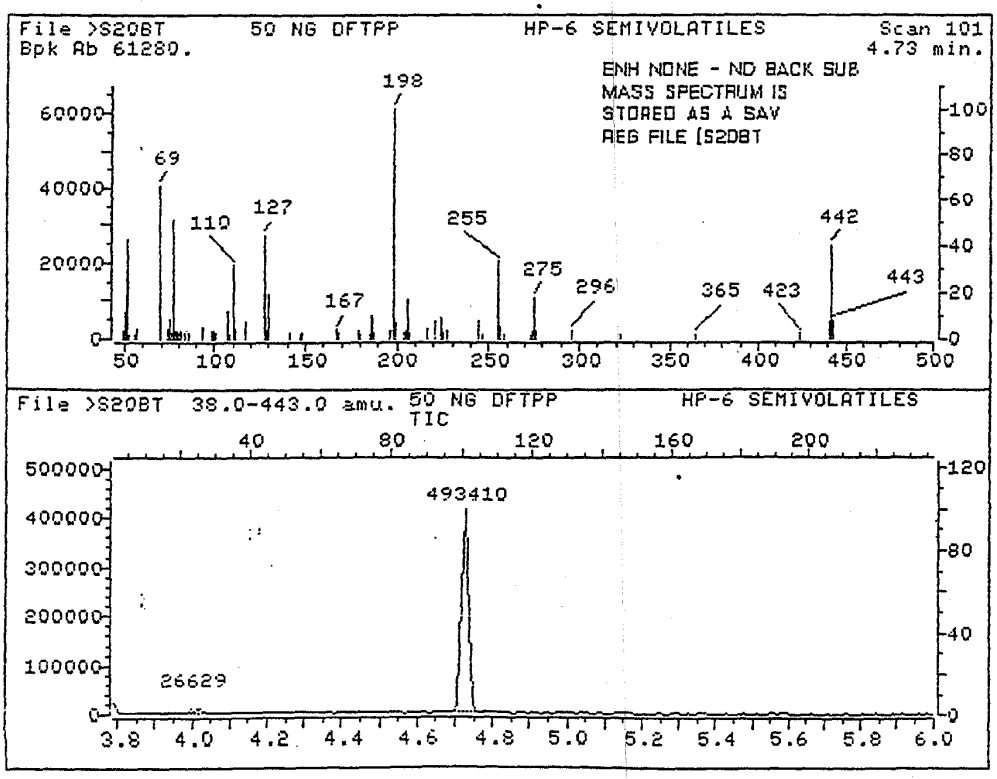
Instrument ID: HP0000 Analyzed on: 9/20/94 17:32

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	42.40	42.40	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	66.20	66.20	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	44.30	44.30	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.41	6.41	Ok
275	10-30% of mass 198	17.54	17.54	Ok
365	Greater than 1% of mass 198	1.83	1.83	Ok
441	0-100% of mass 443	6.95	93.05	Ok
442	Greater than 40% of mass 198	40.38	40.38	Ok
443	17-23% of mass 442	7.47	18.49	Ok

Injection Date: 09/20/94
Injection Time: 17:32
Data File: >S20BT
Scan: 101



40035

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HP-6

Contractor: ARDL, INC. Calibration Date: 09/21/94

Contract No: _____

Minimum RF for SPCC is 0.050 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>M6747	>M6744	>M6743	>M6746	>M6740	>M6745					
	RF	RF	RF	RF	RF	RF					
Compound	10.00	20.00	50.00	120.00	160.00	160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Dimethyl Disulfide	-	-	-	-	-	-	-	-	-		
Pyridine	.18321	.40128	.70736	.81857	-	.87605	.321	.59730	49.430		
n-Nitrosodimethylamine	.51788	.74665	.76652	.75594	-	-	.324	.69675	17.154		
2-Fluorophenol (Surr 1)	1.28008	1.54948	1.36387	1.37582	-	1.47111	.691	1.40807	7.393		
1,4-Oxathiane	1.18443	1.29593	1.28551	.64106	-	.75424	.693	1.03223	30.139		
Dimethylmethylphosphonate	-	-	-	-	-	-	-	-	-		
Aniline	1.97556	1.94564	1.32156	1.24303	2.02917	-	.934	1.70299	22.678		
D5 Phenol (Surr 2)	1.98598	2.29172	1.93397	1.83946	-	1.94939	.953	2.00010	8.587		
Phenol	1.81394	1.97985	2.02583	1.75478	1.76511	-	.957	1.86790	6.759	*	
bis(-2-Chloroethyl)Ether	1.72747	1.91709	1.80688	1.61973	1.57143	-	.960	1.72852	8.090		
2-Chlorophenol	1.34382	1.44043	1.50041	1.36947	1.35905	-	.958	1.40264	4.709		
D4 2-Chlorophenol	1.32522	1.58284	1.35510	1.33348	-	1.44739	.955	1.40880	7.721		
1,3-Dichlorobenzene	1.44595	1.58142	1.59420	1.51419	1.50714	-	.989	1.52858	3.951		
1,4-Dichlorobenzene	1.58417	1.60480	1.61680	1.56930	1.55325	-	1.005	1.58566	1.625	*	
Benzyl Alcohol	.21111	.61414	.58718	.82009	.84267	-	1.062	.61504	41.277		
1,2-Dichlorobenzene	1.47444	1.50204	1.52832	1.43556	1.48876	-	1.052	1.48582	2.315		
D4 1,2-Dichlorobenzene	1.58168	1.66229	1.60403	1.51676	-	1.46108	1.049	1.56517	4.989		
2-Methylphenol	1.40423	1.51867	1.36018	1.39253	1.34997	-	1.107	1.40512	4.789		
bis(2-chloroisopropyl)Ether	1.82656	1.89835	1.83263	1.70424	1.63675	-	1.102	1.77971	5.973		
1,4-Dithiane	1.08609	1.26947	1.21288	1.20718	-	1.28489	1.113	1.21210	6.456		
Diisopropylmethylphosphonate	-	-	-	-	-	-	-	-	-		
4-Methylphenol	1.34443	1.71239	1.55758	1.50617	1.48625	-	1.148	1.52136	8.731		
N-Nitroso-Di-n-Propylamine	.92243	1.12284	1.01208	.98374	1.02210	-	1.141	1.01264	7.190		**
Hexachloroethane	.75748	.80012	.82993	.81794	.80269	-	1.130	.80163	3.427		
D5 Nitrobenzene (Surr 3)	.38393	.42172	.42508	.43398	-	.45543	.867	.42403	6.126		
Nitrobenzene	.41071	.43619	.44257	.42920	.41829	-	.870	.42739	3.034		
Isophorone	.84946	.88269	.90046	.90404	.90346	-	.919	.88802	2.620		
2-Nitrophenol	.16953	.20878	.22812	.22383	.21633	-	.934	.20932	11.196	*	
2,4-Dimethylphenol	.32752	.37526	.40413	.39630	.37738	-	.958	.37612	7.928		
bis(-2-Chloroethoxy)Methane	.55329	.58800	.58260	.56732	.54475	-	.974	.56719	3.260		

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HP-6

Contractor: ARDL, INC. Calibration Date: 09/21/94

Contract No: _____

Minimum RF for SPCC is 0.050 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>M6747	>M6744	>M6743	>M6746	>M6740	>M6745					
	RF	RF	RF	RF	RF	RF					
Compound	10.00	20.00	50.00	120.00	160.00	160.00	RRT	RF	% RSD	CCC	SPCC
enzoic Acid	.15113	.25451	.25043	.27785	.26131	-	.998	.23905	21.021		
,4-Dichlorophenol	.25329	.29811	.33335	.31023	.30315	-	.984	.29963	9.747	*	
,2,4-Trichlorobenzene	.32847	.32650	.32542	.32412	.31619	-	.995	.32414	1.457		
aphthalene	1.07617	1.13026	1.10954	1.13544	1.03203	-	1.004	1.09669	3.921		
-Chloroaniline	.33671	.31210	.28267	.22088	.47120	-	1.030	.32471	28.521		
.2,3-Trichlorobenzene	.29382	.32284	.32920	.32233	-	.32448	1.042	.31853	4.421		
enzothiazole	-	-	-	-	-	-	-	-	-		
exachlorobutadiene	.15375	.15077	.15173	.14722	.14954	-	1.046	.15060	1.620	*	
-Chlorophenylmethyl sulfide	-	-	-	-	-	-	-	-	-		
pona	.55576	.64035	.67054	.67832	-	.69012	1.094	.64702	8.381		
Chloro-3-Methylphenol	.29787	.34864	.38666	.36250	.36416	-	1.140	.35197	9.424	*	
Methylnaphthalene	.75261	.84082	.79610	.71737	.70841	-	1.145	.76306	7.274		
xachlorocyclopentadiene	.18365	.24287	.26189	.27463	.28953	-	.879	.25051	16.412		**
4,6-Trichlorophenol	.30804	.36447	.36165	.34069	.33531	-	.895	.34203	6.685	*	
4,5-Trichlorophenol	.30209	.41061	.38412	.39248	.38903	-	.900	.37567	11.268		
luorobiphenyl (Surr 4)	1.21142	1.30111	1.24167	1.15715	-	1.25989	.906	1.23425	4.372		
hloronaphthalene	1.12917	1.18481	1.15880	1.11658	1.09183	-	.915	1.13624	3.197		
itroaniline	.36053	.51378	.47108	.46750	.48201	-	.943	.45898	12.631		
-Diphenylhydrazine	1.89254	1.91767	1.87899	1.79354	1.72595	-	1.109	1.84174	4.332		
naphthylene	1.80005	1.89843	1.85972	1.85163	1.77854	-	.976	1.83767	2.622		
ethyl Phthalate	1.36823	1.44581	1.37166	1.32191	1.29627	-	.979	1.36078	4.202		
-Dinitrotoluene	.25387	.32304	.32417	.33769	.34509	-	.987	.31677	11.480		
itroaniline	.33157	.15616	.13662	.31380	.40505	-	1.006	.26864	43.524		
aphthene	1.06433	1.10917	1.07544	1.05860	.99632	-	1.005	1.06077	3.866	*	
lorophenylmethyl sulfoxide	-	-	-	-	-	-	-	-	-		
-Dinitrophenol	.04759	.13647	.18178	.21512	.22576	-	1.021	.16134	44.925		**
trophenol	.06990	.12676	.14927	.15565	.16942	-	1.041	.13420	29.143		**
enzofuran	1.58703	1.77231	1.62264	1.52919	1.44679	-	1.029	1.59159	7.599		
Dinitrotoluene	.36307	.42938	.43917	.45036	.45531	-	1.044	.42746	8.743		
lorophenylmethyl sulfone	-	-	-	-	-	-	-	-	-		

- Response Factor (Subscript is amount in ug/L)

- Average Relative Retention Time (RT Std/RT Istd)

- Average Response Factor

- Percent Relative Standard Deviation

- Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HP-6

Contractor: ARDL, INC. Calibration Date: 09/21/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>M6747	>M6744	>M6743	>M6746	>M6740	>M6745					
	RF	RF	RF	RF	RF	RF					
Compound	10.00	20.00	50.00	120.00	160.00	160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Diethylphthalate	1.38741	1.47366	1.39373	1.27792	1.20868	-	1.086	1.34828	7.757		
4-Chlorophenyl-phenylether	.56432	.59580	.55320	.48255	.45476	-	1.086	.53012	11.144		
Fluorene	1.26270	1.35819	1.25713	1.28196	1.21538	-	1.081	1.27507	4.112		
4-Nitroaniline	.18028	.26025	.23010	.22475	.24941	-	1.099	.22896	13.436		
2,4,6-Tribromophenol (Surr 5)	.16002	.20068	.16757	.16297	-	.18456	1.121	.17516	9.784		
4,6-Dinitro-2-Methylphenol	.08319	.14628	.16268	.18105	.18108	-	.906	.15086	26.854		
N-Nitrosodiphenylamine	.54753	.57516	.53380	.50721	.43656	-	.909	.52005	10.137	*	
4-Bromophenyl-phenylether	.20087	.21564	.20896	.19479	.18059	-	.950	.20017	6.747		
alpha-BHC	.13060	.12773	.14252	.13892	-	.15545	.955	.13904	7.883		
beta-BHC	.10467	.10281	.11417	.11700	-	.12243	.989	.11222	7.409		
Hexachlorobenzene	.24135	.24914	.23911	.22276	.21405	-	.964	.23328	6.180		
Atrazine	.18443	.20715	.19397	.19697	-	.22053	.984	.20061	6.867		
Pentachlorophenol	.10869	.14306	.15710	.15828	.16946	-	.989	.14732	15.980	*	
gamma-BHC	.11157	.10773	.12395	.11701	-	.12968	.992	.11799	7.573		
Phenanthrene	1.22621	1.25444	1.20029	1.18282	1.11031	-	1.003	1.19481	4.557		
Anthracene	1.21265	1.31292	1.23621	1.23749	1.14557	-	1.008	1.22897	4.881		
delta-BHC	.09907	.09835	.10875	.11132	-	.12280	1.020	.10806	9.297		
Carbazole	1.09917	.96412	.85611	1.04380	.87979	-	1.033	.96860	10.737		
Heptachlor	.20055	.20028	.23715	.23486	-	.24657	1.066	.22388	9.768		
Di-N-Butylphthalate	1.74501	1.97791	1.90042	1.80698	1.67367	-	1.091	1.82080	6.648		
Aldrin	.22382	.20488	.22654	.22094	-	.23976	1.102	.22319	5.607		
Heptachlor Epoxide	.12403	.12267	.13449	.13660	-	.14799	1.143	.13316	7.758		
Malathion	.23672	.31524	.31604	.32219	-	.35464	1.099	.30897	14.080		
Parathion	.12498	.22755	.24791	.26767	-	.27919	1.111	.22946	26.860		
Isodrin	.14417	.16731	.16212	.15226	-	.16578	1.132	.15833	6.219		
Supona	.12008	.14926	.14208	.13617	-	.15773	1.150	.14106	10.088		
Fluoranthene	1.14634	1.22836	1.14982	1.09002	1.11182	-	1.149	1.14527	4.599	*	
Pyrene	1.32482	1.45324	1.38742	1.37776	1.27807	-	.886	1.36426	4.865		
Benzidine	-	-	-	-	-	-	-	-	-		
Endosulfan 1	.03211	.03559	.04102	.03914	-	.04457	.889	.03849	12.522		

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: HP-6

Contractor: ARDL, INC. Calibration Date: 09/21/94

Contract No: _____

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % RSD for CCC is 30.0%

Laboratory ID:	>M6747	>M6744	>M6743	>M6746	>M6740	>M6745					
	RF	RF	RF	RF	RF	RF					
Compound	10.00	20.00	50.00	120.00	160.00	160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
4,4'-DDE	.24234	.22784	.25094	.23198	-	.25212	.906	.24104	4.538		
alpha-Chlordane	.08717	.09661	.09174	.08150	-	.09066	.891	.08954	6.277		
D14 Terphenyl (Surr 6)	.88154	.93643	.85065	.70182	-	.71173	.907	.81643	12.833		
Dieldrin	.28457	.26484	.28798	.27257	-	.29052	.908	.28010	3.912		
Endrin	.06011	.06585	.07807	.08929	-	.09370	.924	.07740	18.719		
Endosulfan 2	.03701	.04092	.04538	.04394	-	.04936	.931	.04332	10.742		
4,4'-DDD	.43787	.42379	.46429	.44314	-	.46916	.937	.44765	4.216		
Endrin Aldehyde	.13963	.09591	.09655	.07348	-	.20981	.945	.12307	43.938		
Butylbenzylphthalate	.85343	.96171	.93064	.91100	.86164	-	.959	.90368	5.084		
4,4'-DDT	.34924	.35720	.40898	.39238	-	.40167	.963	.38189	7.064		
3,3'-Dichlorobenzidine	.19864	.14258	.16578	.16721	.10159	-	1.002	.15516	23.186		
Benzo(a)Anthracene	1.18006	1.23841	1.19198	1.17325	1.16187	-	.999	1.18911	2.493		
bis(2-Ethylhexyl)Phthalate	1.25694	1.37006	1.32515	1.25871	1.19100	-	1.017	1.28037	5.391		
Chrysene	1.19754	1.22138	1.16947	1.03912	.99859	-	1.003	1.12522	8.874		
Di-n-Octyl Phthalate	2.63093	3.04906	2.98653	2.88807	2.76982	-	.953	2.86488	5.867	*	
Benzo(b)Fluoranthene	1.47354	1.53466	1.45749	1.65009	1.73696	-	.974	1.57055	7.634		
Benzo(k)Fluoranthene	1.50033	1.56003	1.46175	1.22837	1.03341	-	.975	1.35678	16.231		
Benzo(a)Pyrene	1.38772	1.49681	1.40826	1.41641	1.35906	-	.996	1.41365	3.642	*	
Indeno(1,2,3-cd)Pyrene	1.15510	1.34493	1.54142	1.57675	1.54916	-	1.080	1.43347	12.620		
Dibenzo(a,h)Anthracene	1.16264	1.31145	1.25645	1.26427	1.19784	-	1.083	1.23853	4.728		
Benzo(g,h,i)Perylene	1.20715	1.37287	1.29756	1.33252	1.31971	-	1.103	1.30596	4.721		

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

QUANT REPORT

)perator ID: TIM
)utput File: ^M6747::D1
)ata File: >M6747::A7
Iame: 10 NG STANDARD
fisc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940920 17:23
Injected at: 940920 16:42
Dilution Factor: 1.00000
Instrument ID: HP00006

:D File: IDSVW6::SC
'itle: Semi-volatile Target Compounds
,ast Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	143222	40.00	ug/L	96
3)	Pyridine	3.08	53	6560	5.21	ug/L	99
4)	n-Nitrosodimethylamine	3.00	45	18543	5.06	ug/L	81
5)	2-Fluorophenol (Surr 1)	6.33	364	45834	9.29	ug/L	72
6)	1,4-Oxathiane	6.37	368	42409	6.42	ug/L	81
8)	Aniline	8.57	579	70736	8.64	ug/L	95
9)	D5 Phenol (Surr 2)	8.73	594	71109	10.12	ug/L	63
10)	Phenol	8.76	597	64949	8.04	ug/L	88
11)	bis(-2-Chloroethyl)Ether	8.80	601	61853	8.58	ug/L	93
12)	2-Chlorophenol	8.79	600	48116	8.67	ug/L	96
13)	D4 2-Chlorophenol	8.75	596	47450	8.62	ug/L	63
14)	1,3-Dichlorobenzene	9.06	626	51773	9.25	ug/L	95
15)	1,4-Dichlorobenzene	9.21	640	56722	9.67	ug/L	95
16)	Benzyl Alcohol	9.73	690	7559	2.55	ug/L	68
17)	1,2-Dichlorobenzene	9.65	682	52793	9.46	ug/L	91
18)	D4 1,2-Dichlorobenzene	9.61	679	56633	9.82	ug/L	96
19)	2-Methylphenol	10.14	729	50279	10.90	ug/L	93
20)	bis(2-chloroisopropyl)Ether	10.10	726	65401	6.57	ug/L	71
21)	1,4-Dithiane	10.20	735	38888	9.32	ug/L	93
23)	4-Methylphenol	10.51	765	48138	9.94	ug/L	88
24)	N-Nitroso-Di-n-Propylamine	10.45	759	33028	8.28	ug/L	64
25)	Hexachloroethane	10.37	751	27122	11.09	ug/L	68
26)	*D8 Naphthalene (ISTD2)	12.28	934	523294	40.00	ug/L	98
27)	D5 Nitrobenzene (Surr 3)	10.64	777	50227	8.49	ug/L	85
28)	Nitrobenzene	10.68	781	53730	9.71	ug/L	96
29)	Isophorone	11.28	839	111129	8.98	ug/L	93
30)	2-Nitrophenol	11.47	857	22178	8.27	ug/L	95
31)	2,4-Dimethylphenol	11.75	884	42847	10.55	ug/L	94
32)	bis(-2-Chloroethoxy)Methane	11.95	903	72383	10.07	ug/L	96
33)	Benzoic Acid	12.08	915	19771	6.64	ug/L	83
34)	2,4-Dichlorophenol	12.08	915	33136	9.35	ug/L	97
35)	1,2,4-Trichlorobenzene	12.22	929	42971	11.61	ug/L	91
36)	Naphthalene	12.33	939	140788	9.63	ug/L	97
37)	4-Chloroaniline	12.65	970	44050	10.03	ug/L	99
38)	1,2,3-Trichlorobenzene	12.80	984	38438	9.77	ug/L	96
40)	Hexachlorobutadiene	12.85	989	20114	10.10	ug/L	98
42)	Vapona	13.41	1043	72707	10.86	ug/L	84
43)	4-Chloro-3-Methylphenol	13.99	1098	38968	10.59	ug/L	90
44)	2-Methylnaphthalene	14.06	1105	98459	10.11	ug/L	96
45)	*D10 Acenaphthene (ISTD3)	16.68	1356	308690	40.00	ug/L	93

perator ID: TIM Quant Rev: 7 Quant Time: 940920 17:23
utput File: ^M6747::D1 Injected at: 940920 16:42
ata File: >M6747::A7 Dilution Factor: 1.00000
ame: 10 NG STANDARD Instrument ID: HP00006
isc: HP-6 SEMIVOLATILES

D File: IDSVW6::SC
itle: Semi-volatile Target Compounds
ast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	Hexachlorocyclopentadiene	14.65	1162	14173	8.45	ug/L	90
47)	2,4,6-Trichlorophenol	14.91	1187	23772	8.07	ug/L	94
48)	2,4,5-Trichlorophenol	15.01	1196	23313	7.05	ug/L	89
49)	2-Fluorobiphenyl (Surr 4)	15.10	1205	93488	10.25	ug/L	95
50)	2-Chloronaphthalene	15.25	1219	87141	9.82	ug/L	89
51)	3-Nitroaniline	15.71	1263	27823	6.75	ug/L	83
52)	1,2-Diphenylhydrazine	18.48	1529	146052	9.52	ug/L	62
53)	Acenaphthylene	16.28	1318	138914	8.38	ug/L	97
54)	Dimethyl Phthalate	16.31	1321	105590	9.86	ug/L	98
55)	2,6-Dinitrotoluene	16.45	1334	19592	8.24	ug/L	93
56)	2-Nitroaniline	16.75	1363	25588	10.27	ug/L	88
57)	Acenaphthene	16.75	1363	82137	9.13	ug/L	93
59)	2,4-Dinitrophenol	17.02	1389	3673	6.37	ug/L	97
60)	4-Nitrophenol	17.35	1420	5394	5.71	ug/L	96
61)	Dibenzofuran	17.16	1402	122475	10.23	ug/L	83
62)	2,4-Dinitrotoluene	17.40	1425	28019	9.23	ug/L	81
64)	Diethylphthalate	18.09	1491	107070	10.23	ug/L	97
65)	4-Chlorophenyl-phenylether	18.11	1493	43550	9.02	ug/L	84
66)	Fluorene	18.01	1484	97446	10.23	ug/L	93
67)	4-Nitroaniline	18.31	1512	13913	9.40	ug/L	80
68)	2,4,6-Tribromophenol (Surr 5)	18.69	1549	12349	6.95	ug/L	92
69)	*D10 Phenanthrene (ISTD4)	20.32	1705	486173	40.00	ug/L	62
70)	4,6-Dinitro-2-Methylphenol	18.39	1520	10111	8.74	ug/L	85
71)	N-Nitrosodiphenylamine	18.45	1526	66548	12.78	ug/L	96
72)	4-Bromophenyl-phenylether	19.31	1608	24415	8.41	ug/L	90
73)	alpha-BHC	19.42	1619	15873	9.84	ug/L	93
74)	beta-BHC	20.09	1683	12722	9.98	ug/L	96
75)	Hexachlorobenzene	19.59	1635	29335	7.87	ug/L	89
76)	Atrazine	19.96	1671	22416	8.47	ug/L	88
77)	Pentachlorophenol	20.10	1684	13210	5.49	ug/L	95
78)	gamma-BHC	20.17	1691	13561	10.48	ug/L	85
79)	Phenanthrene	20.37	1710	149037	9.87	ug/L	97
80)	Anthracene	20.48	1720	147390	9.54	ug/L	96
81)	delta-BHC	20.73	1744	12041	10.77	ug/L	78
82)	Carbazole	20.99	1769	133597	14.45	ug/L	86
83)	Heptachlor	21.68	1835	24375	9.36	ug/L	54
84)	Di-N-Butylphthalate	22.18	1883	212094	9.68	ug/L	98
85)	Aldrin	22.40	1904	27204	10.31	ug/L	88
86)	Heptachlor Epoxide	23.23	1984	15075	8.44	ug/L	89
87)	Malathion	22.32	1897	28772	7.83	ug/L	98
88)	Parathion	22.57	1921	15190	5.41	ug/L	87

perator ID: TIM Quant Rev: 7 Quant Time: 940920 17:23
utput File: ^M6747::D1 Injected at: 940920 16:42
ata File: >M6747::A7 Dilution Factor: 1.00000
ame: 10 NG STANDARD Instrument ID: HP00006
isc: HP-6 SEMIVOLATILES

D File: IDSVW6::SC
itle: Semi-volatile Target Compounds
ast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
89)	Isodrin	23.01	1963	17523	8.96	ug/L	86
90)	Supona	23.38	1998	14595	7.32	ug/L	75
91)	Fluoranthene	23.34	1995	139330	8.55	ug/L	66
92)	*D12 Chrysene (ISTD 5)	26.97	2342	435506	40.00	ug/L	84
93)	Pyrene	23.89	2047	144242	9.62	ug/L	77
95)	Endosulfan 1	23.97	2055	3496	8.56	ug/L	99
96)	4,4'-DDE	24.43	2099	26385	10.69	ug/L	86
97)	alpha-Chlordane	24.02	2060	9491	7.67	ug/L	98
98)	D14 Terphenyl (Surr 6)	24.45	2101	95979	10.27	ug/L	72
99)	Dieldrin	24.49	2105	30983	10.33	ug/L	95
00)	Endrin	24.93	2147	6545	7.61	ug/L	94
01)	Endosulfan 2	25.12	2165	4030	10.28	ug/L	92
02)	4,4'-DDD	25.25	2178	47674	9.45	ug/L	90
03)	Endrin Aldehyde	25.48	2200	15202	135.26	ug/L	72
04)	Butylbenzylphthalate	25.87	2237	92918	11.42	ug/L	82
05)	4,4'-DDT	25.97	2247	38024	11.59	ug/L	90
06)	3,3'-Dichlorobenzidine	27.03	2348	21627	12.17	ug/L	93
07)	Benzo(a)Anthracene	26.92	2338	128481	10.28	ug/L	97
08)	bis(2-Ethylhexyl)Phthalate	27.42	2386	136851	12.14	ug/L	94
09)	Chrysene	27.03	2348	130384	10.38	ug/L	97
10)	*D12 Perylene (ISTD 6)	30.29	2661	354273	40.00	ug/L	96
11)	Di-n-Octyl Phthalate	28.86	2524	233017	9.30	ug/L	92
12)	Benzo(b)Fluoranthene	29.47	2582	130509	8.61	ug/L	94
13)	Benzo(k)Fluoranthene	29.52	2587	132882	10.44	ug/L	96
14)	Benzo(a)Pyrene	30.15	2647	122908	9.54	ug/L	88
15)	Indeno(1,2,3-cd)Pyrene	32.69	2891	102305	8.39	ug/L	90
16)	Dibenzo(a,h)Anthracene	32.75	2897	102973	9.66	ug/L	70
17)	Benzo(g,h,i)Perylene	33.36	2955	106915	11.46	ug/L	72

* Compound is ISTD

QUANT REPORT

Operator ID: TIM
Output File: ^M6744::D1
Data File: >M6744::A7
Name: 020 NG STANDARD
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940920 16:00
Injected at: 940920 14:23
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	202008	40.00	ug/L	95
3)	Pyridine	2.94	39	40531	22.81	ug/L	90
4)	n-Nitrosodimethylamine	2.97	42	75415	14.59	ug/L	89
5)	2-Fluorophenol (Surr 1)	6.32	363	156504	22.49	ug/L	66
6)	1,4-Oxathiane	6.36	367	130894	14.05	ug/L	78
8)	Aniline	8.56	578	196517	17.02	ug/L	97
9)	D5 Phenol (Surr 2)	8.73	594	231473	23.37	ug/L	67
10)	Phenol	8.76	597	199973	17.55	ug/L	92
11)	bis(-2-Chloroethyl)Ether	8.79	600	193634	19.03	ug/L	94
12)	2-Chlorophenol	8.78	599	145489	18.58	ug/L	95
13)	D4 2-Chlorophenol	8.75	596	159873	20.59	ug/L	70
14)	1,3-Dichlorobenzene	9.06	626	159730	20.23	ug/L	96
15)	1,4-Dichlorobenzene	9.21	640	162091	19.60	ug/L	95
16)	Benzyl Alcohol	9.72	689	62031	14.84	ug/L	80
17)	1,2-Dichlorobenzene	9.65	682	151712	19.27	ug/L	96
18)	D4 1,2-Dichlorobenzene	9.61	679	167898	20.63	ug/L	93
19)	2-Methylphenol	10.14	729	153392	23.58	ug/L	99
20)	bis(2-chloroisopropyl)Ether	10.11	726	191741	13.66	ug/L	74
21)	1,4-Dithiane	10.20	735	128222	21.78	ug/L	92
23)	4-Methylphenol	10.51	765	172958	25.31	ug/L	99
24)	N-Nitroso-Di-n-Propylamine	10.44	758	113411	20.17	ug/L	67
25)	Hexachloroethane	10.36	750	80815	23.43	ug/L	68
26)	*D8 Naphthalene (ISTD2)	12.28	934	755342	40.00	ug/L	97
27)	D5 Nitrobenzene (Surr 3)	10.64	777	159273	18.64	ug/L	83
28)	Nitrobenzene	10.68	781	164735	20.63	ug/L	88
29)	Isophorone	11.28	838	333368	18.66	ug/L	93
30)	2-Nitrophenol	11.47	857	78851	20.36	ug/L	91
31)	2,4-Dimethylphenol	11.76	884	141726	24.18	ug/L	89
32)	bis(-2-Chloroethoxy)Methane	11.95	903	222072	21.40	ug/L	97
33)	Benzoic Acid	12.17	924	96121	22.36	ug/L	87
34)	2,4-Dichlorophenol	12.08	915	112588	22.01	ug/L	96
35)	1,2,4-Trichlorobenzene	12.22	928	123308	23.09	ug/L	94
36)	Naphthalene	12.33	939	426865	20.23	ug/L	98
37)	4-Chloroaniline	12.65	970	117872	18.59	ug/L	96
38)	1,2,3-Trichlorobenzene	12.80	984	121927	21.47	ug/L	98
40)	Hexachlorobutadiene	12.85	989	56941	19.81	ug/L	97
42)	Vapona	13.43	1044	241842	25.02	ug/L	86
43)	4-Chloro-3-Methylphenol	13.99	1098	131673	24.79	ug/L	94
44)	2-Methylnaphthalene	14.06	1105	317554	22.58	ug/L	95
45)	*D10 Acenaphthene (ISTD3)	16.68	1356	435349	40.00	ug/L	90

Operator ID: TIM Quant Rev: 7 Quant Time: 940920 16:00
Output File: ^M6744::D1 Injected at: 940920 14:23
Data File: >M6744::A7 Dilution Factor: 1.00000
Name: 020 NG STANDARD Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	Hexachlorocyclopentadiene	14.66	1162	52867	22.34	ug/L	98
47)	2,4,6-Trichlorophenol	14.92	1187	79336	19.09	ug/L	93
48)	2,4,5-Trichlorophenol	15.00	1195	89379	19.15	ug/L	90
49)	2-Fluorobiphenyl (Surr 4)	15.10	1204	283219	22.01	ug/L	98
50)	2-Chloronaphthalene	15.25	1219	257903	20.62	ug/L	92
51)	3-Nitroaniline	15.71	1263	111836	19.24	ug/L	83
52)	1,2-Diphenylhydrazine	18.49	1529	417428	19.30	ug/L	61
53)	Acenaphthylene	16.28	1317	413239	17.67	ug/L	97
54)	Dimethyl Phthalate	16.32	1321	314716	20.83	ug/L	98
55)	2,6-Dinitrotoluene	16.45	1334	70317	20.98	ug/L	94
56)	2-Nitroaniline	16.78	1365	33993	9.67	ug/L	78
57)	Acenaphthene	16.76	1363	241438	19.02	ug/L	97
59)	2,4-Dinitrophenol	17.02	1388	29707	36.51	ug/L	96
60)	4-Nitrophenol	17.35	1420	27593	20.70	ug/L	93
61)	Dibenzofuran	17.16	1402	385787	22.86	ug/L	85
62)	2,4-Dinitrotoluene	17.40	1425	93464	21.83	ug/L	83
64)	Diethylphthalate	18.09	1491	320778	21.73	ug/L	98
65)	4-Chlorophenyl-phenylether	18.11	1493	129691	19.05	ug/L	81
66)	Fluorene	18.02	1484	295643	22.01	ug/L	90
67)	4-Nitroaniline	18.32	1513	56650	27.14	ug/L	75
68)	2,4,6-Tribromophenol (Surr 5)	18.69	1548	43682	17.42	ug/L	97
69)	*D10 Phenanthrene (ISTD4)	20.33	1705	674043	40.00	ug/L	62
70)	4,6-Dinitro-2-Methylphenol	18.40	1520	49300	30.72	ug/L	92
71)	N-Nitrosodiphenylamine	18.46	1526	193840	26.86	ug/L	97
72)	4-Bromophenyl-phenylether	19.30	1607	72677	18.06	ug/L	96
73)	alpha-BHC	19.42	1618	43047	19.24	ug/L	96
74)	beta-BHC	20.10	1683	34649	19.60	ug/L	91
75)	Hexachlorobenzene	19.60	1635	83964	16.24	ug/L	86
76)	Atrazine	19.98	1672	69814	19.02	ug/L	91
77)	Pentachlorophenol	20.10	1683	48215	14.46	ug/L	96
78)	gamma-BHC	20.17	1690	36309	20.23	ug/L	71
79)	Phenanthrene	20.38	1710	422773	20.19	ug/L	98
80)	Anthracene	20.48	1720	442481	20.66	ug/L	96
81)	delta-BHC	20.72	1743	33145	21.37	ug/L	79
82)	Carbazole	21.00	1769	324929	25.34	ug/L	85
83)	Heptachlor	21.67	1834	67499	18.70	ug/L	53
84)	Di-N-Butylphthalate	22.17	1882	666597	21.95	ug/L	97
85)	Aldrin	22.41	1904	69049	18.88	ug/L	88
86)	Heptachlor Epoxide	23.24	1984	41344	16.69	ug/L	89
87)	Malathion	22.33	1897	106242	20.86	ug/L	97
88)	Parathion	22.57	1920	76688	19.71	ug/L	82

Operator ID: TIM
Output File: ^M6744::D1
Data File: >M6744::A7
Name: 020 NG STANDARD
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940920 16:00
Injected at: 940920 14:23
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
89)	Isodrin	23.01	1962	56387	20.79	ug/L	79
90)	Supona	23.38	1997	50303	18.19	ug/L	75
91)	Fluoranthene	23.36	1995	413984	18.31	ug/L	71
92)	*D12 Chrysene (ISTD 5)	26.98	2342	600433	40.00	ug/L	86
93)	Pyrene	23.89	2046	436287	21.12	ug/L	75
95)	Endosulfan 1	23.97	2054	10685	18.97	ug/L	96
96)	4,4'-DDE	24.43	2098	68402	20.11	ug/L	85
97)	alpha-Chlordane	24.02	2059	29003	17.01	ug/L	95
98)	D14 Terphenyl (Surr 6)	24.46	2101	281131	21.81	ug/L	75
99)	Dieldrin	24.49	2104	79509	19.22	ug/L	95
100)	Endrin	24.93	2146	19769	16.67	ug/L	98
101)	Endosulfan 2	25.12	2164	12284	22.72	ug/L	89
102)	4,4'-DDD	25.26	2177	127228	18.29	ug/L	87
103)	Endrin Aldehyde	25.49	2199	28795	185.84	ug/L	74
104)	Butylbenzylphthalate	25.88	2237	288722	25.75	ug/L	86
105)	4,4'-DDT	25.98	2246	107237	23.71	ug/L	83
106)	3,3'-Dichlorobenzidine	27.03	2347	42806	17.48	ug/L	96
107)	Benzo(a)Anthracene	26.93	2337	371791	21.58	ug/L	97
108)	bis(2-Ethylhexyl)Phthalate	27.43	2385	411316	26.46	ug/L	95
109)	Chrysene	27.03	2347	366677	21.17	ug/L	99
110)	*D12 Perylene (ISTD 6)	30.30	2660	468780	40.00	ug/L	96
111)	Di-n-Octyl Phthalate	28.87	2523	714669	21.56	ug/L	92
112)	Benzo(b)Fluoranthene	29.47	2581	359708	17.94	ug/L	95
113)	Benzo(k)Fluoranthene	29.53	2586	365655	21.70	ug/L	91
114)	Benzo(a)Pyrene	30.16	2647	350837	20.59	ug/L	95
115)	Indeno(1,2,3-cd)Pyrene	32.70	2890	315237	19.55	ug/L	84
116)	Dibenzo(a,h)Anthracene	32.77	2897	307391	21.79	ug/L	71
117)	Benzo(g,h,i)Perylene	33.38	2955	321786	26.06	ug/L	68

* Compound is ISTD

QUANT REPORT

)perator ID: TIM
)utput File: ^M6743::D1
)ata File: >M6743::A7
Jame: 050 NG STANDARD
Jisc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940920 15:56
Injected at: 940920 13:37
Dilution Factor: 1.00000
Instrument ID: HP00006

:D File: IDSVW6::SC
:itle: Semi-volatile Target Compounds
ast Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	130402	40.00	ug/L	96
3)	Pyridine	2.94	39	115301	100.54	ug/L	88
4)	n-Nitrosodimethylamine	2.97	42	124945	37.45	ug/L	79
5)	2-Fluorophenol (Surr 1)	6.34	365	222314	49.49	ug/L	64
6)	1,4-Oxathiane	6.36	367	209541	34.85	ug/L	73
8)	Aniline	8.56	578	215418	28.90	ug/L	92
9)	D5 Phenol (Surr 2)	8.74	595	315242	49.30	ug/L	69
10)	Phenol	8.77	598	330216	44.89	ug/L	94
11)	bis(-2-Chloroethyl)Ether	8.79	600	294526	44.85	ug/L	95
12)	2-Chlorophenol	8.79	600	244571	48.39	ug/L	96
13)	D4 2-Chlorophenol	8.75	596	220884	44.06	ug/L	68
14)	1,3-Dichlorobenzene	9.06	626	259859	50.98	ug/L	94
15)	1,4-Dichlorobenzene	9.21	640	263542	49.36	ug/L	96
16)	Benzyl Alcohol	9.72	689	95711	35.46	ug/L	84
17)	1,2-Dichlorobenzene	9.65	682	249120	49.01	ug/L	93
18)	D4 1,2-Dichlorobenzene	9.62	679	261461	49.77	ug/L	95
19)	2-Methylphenol	10.15	730	221713	52.80	ug/L	99
20)	bis(2-chloroisopropyl)Ether	10.10	725	298724	32.97	ug/L	75
21)	1,4-Dithiane	10.20	735	197702	52.01	ug/L	92
23)	4-Methylphenol	10.51	765	253890	57.55	ug/L	96
24)	N-Nitroso-Di-n-Propylamine	10.45	759	164972	45.45	ug/L	67
25)	Hexachloroethane	10.36	750	135280	60.75	ug/L	63
26)	*D8 Naphthalene (ISTD2)	12.28	934	481344	40.00	ug/L	98
27)	D5 Nitrobenzene (Surr 3)	10.64	777	255763	46.98	ug/L	83
28)	Nitrobenzene	10.68	781	266288	52.34	ug/L	91
29)	Isophorone	11.28	838	541789	47.59	ug/L	93
30)	2-Nitrophenol	11.47	857	137255	55.62	ug/L	89
31)	2,4-Dimethylphenol	11.76	884	243158	65.10	ug/L	95
32)	bis(-2-Chloroethoxy)Methane	11.96	903	350541	53.01	ug/L	97
33)	Benzoic Acid	12.23	929	150679	55.01	ug/L	81
34)	2,4-Dichlorophenol	12.08	915	200571	61.52	ug/L	92
35)	1,2,4-Trichlorobenzene	12.22	928	195798	57.53	ug/L	93
36)	Naphthalene	12.33	939	667590	49.65	ug/L	99
37)	4-Chloroaniline	12.66	970	170079	42.10	ug/L	99
38)	1,2,3-Trichlorobenzene	12.80	984	198074	54.73	ug/L	97
40)	Hexachlorobutadiene	12.85	989	91293	49.84	ug/L	96
42)	Vapona	13.44	1045	403453	65.51	ug/L	86
43)	4-Chloro-3-Methylphenol	13.99	1098	232646	68.73	ug/L	94
44)	2-Methylnaphthalene	14.07	1105	478995	53.45	ug/L	93
45)	*D10 Acenaphthene (ISTD3)	16.68	1355	295657	40.00	ug/L	93

QUANT REPORT

)perator ID: TIM Quant Rev: 7 Quant Time: 940920 15:56
)utput File: ^M6743::D1 Injected at: 940920 13:37
)ata File: >M6743::A7 Dilution Factor: 1.00000
Jame: 050 NG STANDARD Instrument ID: HP00006
fisc: HP-6 SEMIVOLATILES

:D File: IDSVW6::SC
'itle: Semi-volatile Target Compounds
,ast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	Hexachlorocyclopentadiene	14.65	1161	96786	60.22	ug/L	97
47)	2,4,6-Trichlorophenol	14.92	1187	133655	47.36	ug/L	94
48)	2,4,5-Trichlorophenol	15.00	1195	141960	44.80	ug/L	91
49)	2-Fluorobiphenyl (Surr 4)	15.10	1204	458886	52.51	ug/L	98
50)	2-Chloronaphthalene	15.26	1219	428260	50.41	ug/L	90
51)	3-Nitroaniline	15.72	1263	174098	44.11	ug/L	77
52)	1,2-Diphenylhydrazine	18.49	1529	694419	47.28	ug/L	60
53)	Acenaphthylene	16.28	1317	687301	43.27	ug/L	96
54)	Dimethyl Phthalate	16.32	1321	506926	49.41	ug/L	98
55)	2,6-Dinitrotoluene	16.47	1335	119803	52.63	ug/L	87
56)	2-Nitroaniline	16.78	1365	50492	21.15	ug/L	82
57)	Acenaphthene	16.76	1363	397451	46.11	ug/L	95
59)	2,4-Dinitrophenol	17.02	1388	67181	121.58	ug/L	98
60)	4-Nitrophenol	17.35	1420	55165	60.94	ug/L	94
61)	Dibenzofuran	17.17	1402	599682	52.32	ug/L	86
62)	2,4-Dinitrotoluene	17.41	1425	162306	55.81	ug/L	87
64)	Diethylphthalate	18.11	1492	515083	51.38	ug/L	99
65)	4-Chlorophenyl-phenylether	18.12	1493	204445	44.23	ug/L	86
66)	Fluorene	18.02	1484	464600	50.94	ug/L	90
67)	4-Nitroaniline	18.33	1513	85040	59.99	ug/L	76
68)	2,4,6-Tribromophenol (Surr 5)	18.69	1548	61929	36.37	ug/L	94
69)	*D10 Phenanthrene (ISTD4)	20.33	1705	463694	40.00	ug/L	64
70)	4,6-Dinitro-2-Methylphenol	18.40	1520	94294	85.42	ug/L	96
71)	N-Nitrosodiphenylamine	18.46	1526	309402	62.32	ug/L	97
72)	4-Bromophenyl-phenylether	19.31	1607	121118	43.75	ug/L	95
73)	alpha-BHC	19.42	1618	82606	53.67	ug/L	95
74)	beta-BHC	20.10	1683	66173	54.41	ug/L	93
75)	Hexachlorobenzene	19.60	1635	138595	38.97	ug/L	87
76)	Atrazine	20.00	1673	112427	44.54	ug/L	91
77)	Pentachlorophenol	20.10	1683	91057	39.69	ug/L	95
78)	gamma-BHC	20.18	1690	71842	58.20	ug/L	79
79)	Phenanthrene	20.39	1710	695707	48.29	ug/L	98
80)	Anthracene	20.50	1721	716528	48.64	ug/L	96
81)	delta-BHC	20.73	1743	63031	59.09	ug/L	76
82)	Carbazole	21.00	1769	496215	56.26	ug/L	86
83)	Heptachlor	21.68	1834	137459	55.36	ug/L	59
84)	Di-N-Butylphthalate	22.18	1882	1101518	52.73	ug/L	98
85)	Aldrin	22.40	1903	131305	52.20	ug/L	90
86)	Heptachlor Epoxide	23.25	1984	77955	45.75	ug/L	86
87)	Malathion	22.34	1897	183184	52.28	ug/L	99
88)	Parathion	22.58	1920	143692	53.68	ug/L	80

)perator ID: TIM Quant Rev: 7 Quant Time: 940920 15:56
)utput File: ^M6743::D1 Injected at: 940920 13:37
)ata File: >M6743::A7 Dilution Factor: 1.00000
lame: 050 NG STANDARD Instrument ID: HP00006
lisc: HP-6 SEMIVOLATILES

:D File: IDSVW6::SC
'itle: Semi-volatile Target Compounds
ıast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
89)	Isodrin	23.02	1962	93968	50.35	ug/L	93
90)	Supona	23.38	1997	82351	43.30	ug/L	71
91)	Fluoranthene	23.36	1995	666457	42.86	ug/L	71
92)	*D12 Chrysene (ISTD 5)	26.98	2341	414322	40.00	ug/L	85
93)	Pyrene	23.90	2046	718547	50.40	ug/L	76
95)	Endosulfan 1	23.97	2053	21244	54.65	ug/L	80
96)	4,4'-DDE	24.44	2098	129960	55.36	ug/L	82
97)	alpha-Chlordane	24.03	2059	47513	40.37	ug/L	95
98)	D14 Terphenyl (Surr 6)	24.47	2101	440556	49.54	ug/L	74
99)	Dieldrin	24.49	2103	149143	52.25	ug/L	96
00)	Endrin	24.93	2145	40432	49.41	ug/L	87
01)	Endosulfan 2	25.12	2163	23502	62.99	ug/L	97
02)	4,4'-DDD	25.27	2177	240459	50.10	ug/L	90
03)	Endrin Aldehyde	25.49	2198	50002	467.66	ug/L	74
04)	Butylbenzylphthalate	25.88	2236	481983	62.29	ug/L	80
05)	4,4'-DDT	25.98	2245	211812	67.86	ug/L	89
06)	3,3'-Dichlorobenzidine	27.03	2346	85859	50.80	ug/L	95
07)	Benzo(a)Anthracene	26.94	2337	617327	51.93	ug/L	97
08)	bis(2-Ethylhexyl)Phthalate	27.43	2384	686301	63.97	ug/L	96
09)	Chrysene	27.04	2347	605672	50.66	ug/L	97
10)	*D12 Perylene (ISTD 6)	30.30	2659	335545	40.00	ug/L	95
11)	Di-n-Octyl Phthalate	28.88	2523	1252643	52.80	ug/L	95
12)	Benzo(b)Fluoranthene	29.48	2581	611317	42.60	ug/L	95
13)	Benzo(k)Fluoranthene	29.54	2586	613103	50.83	ug/L	93
14)	Benzo(a)Pyrene	30.16	2646	590668	48.43	ug/L	91
15)	Indeno(1,2,3-cd)Pyrene	32.72	2891	646521	56.01	ug/L	88
16)	Dibenzo(a,h)Anthracene	32.78	2897	526993	52.19	ug/L	71
17)	Benzo(g,h,i)Perylene	33.40	2956	544236	61.58	ug/L	70

* Compound is ISTD

QUANT REPORT

Operator ID: TIM
Output File: ^M6746::D1
Data File: >M6746::A7
Name: 120 NG STANDARD
Misc: HP-6 SEMIVOLATILE

Quant Rev: 7
Quant Time: 940920 16:38
Injected at: 940920 15:56
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	146449	40.00	ug/L	95
3)	Pyridine	2.88	34	359637	279.23	ug/L	83
4)	n-Nitrosodimethylamine	2.95	40	332121	88.64	ug/L	82
5)	2-Fluorophenol (Surr 1)	6.34	365	604463	119.83	ug/L	69
6)	1,4-Oxathiane	6.34	365	281648	41.70	ug/L	71
8)	Aniline	8.56	578	546123	65.24	ug/L	96
9)	D5 Phenol (Surr 2)	8.76	597	808160	112.53	ug/L	75
10)	Phenol	8.79	600	770958	93.32	ug/L	82
11)	bis(-2-Chloroethyl)Ether	8.80	601	711625	96.49	ug/L	93
12)	2-Chlorophenol	8.79	600	601674	105.99	ug/L	98
13)	D4 2-Chlorophenol	8.76	597	585861	104.06	ug/L	81
14)	1,3-Dichlorobenzene	9.06	626	665255	116.21	ug/L	96
15)	1,4-Dichlorobenzene	9.21	640	689467	114.97	ug/L	97
16)	Benzyl Alcohol	9.74	691	360303	118.88	ug/L	80
17)	1,2-Dichlorobenzene	9.65	682	630708	110.48	ug/L	97
18)	D4 1,2-Dichlorobenzene	9.62	679	666383	112.95	ug/L	95
19)	2-Methylphenol	10.16	731	611802	129.73	ug/L	96
20)	bis(2-chloroisopropyl)Ether	10.11	726	748753	73.58	ug/L	70
21)	1,4-Dithiane	10.21	736	530371	124.25	ug/L	86
23)	4-Methylphenol	10.54	767	661733	133.57	ug/L	96
24)	N-Nitroso-Di-n-Propylamine	10.48	761	432204	106.03	ug/L	68
25)	Hexachloroethane	10.36	750	359360	143.70	ug/L	63
26)	*D8 Naphthalene (ISTD2)	12.30	935	529903	40.00	ug/L	98
27)	D5 Nitrobenzene (Surr 3)	10.65	778	689896	115.11	ug/L	84
28)	Nitrobenzene	10.70	782	682309	121.82	ug/L	93
29)	Isophorone	11.30	840	1437165	114.68	ug/L	94
30)	2-Nitrophenol	11.48	857	355817	130.98	ug/L	93
31)	2,4-Dimethylphenol	11.78	886	630009	153.21	ug/L	92
32)	bis(-2-Chloroethoxy)Methane	11.98	905	901878	123.88	ug/L	96
33)	Benzoic Acid	12.38	943	441708	146.47	ug/L	85
34)	2,4-Dichlorophenol	12.10	916	493179	137.40	ug/L	97
35)	1,2,4-Trichlorobenzene	12.23	929	515258	137.53	ug/L	94
36)	Naphthalene	12.35	940	1805012	121.95	ug/L	99
37)	4-Chloroaniline	12.67	971	351142	78.96	ug/L	98
38)	1,2,3-Trichlorobenzene	12.81	984	512411	128.60	ug/L	97
40)	Hexachlorobutadiene	12.86	989	234031	116.06	ug/L	95
42)	Vapona	13.48	1048	1078337	159.05	ug/L	87
43)	4-Chloro-3-Methylphenol	14.02	1100	576274	154.64	ug/L	97
44)	2-Methylnaphthalene	14.07	1105	1140405	115.59	ug/L	96
45)	*D10 Acenaphthene (ISTD3)	16.69	1355	323678	40.00	ug/L	90

perator ID: TIM Quant Rev: 7 Quant Time: 940920 16:38
utput File: ^M6746::D1 Injected at: 940920 15:56
ata File: >M6746::A7 Dilution Factor: 1.00000
ame: 120 NG STANDARD Instrument ID: HP00006
isc: HP-6 SEMIVOLATILE

D File: IDSVW6::SC
itle: Semi-volatile Target Compounds
ast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	Hexachlorocyclopentadiene	14.66	1161	266676	151.55	ug/L	97
47)	2,4,6-Trichlorophenol	14.94	1188	330823	107.08	ug/L	95
48)	2,4,5-Trichlorophenol	15.02	1196	381116	109.86	ug/L	92
49)	2-Fluorobiphenyl (Surr 4)	15.12	1205	1123631	117.44	ug/L	98
50)	2-Chloronaphthalene	15.26	1219	1084237	116.57	ug/L	94
51)	3-Nitroaniline	15.73	1264	453954	105.05	ug/L	86
52)	1,2-Diphenylhydrazine	18.52	1530	1741593	108.31	ug/L	60
53)	Acenaphthylene	16.30	1318	1797992	103.40	ug/L	97
54)	Dimethyl Phthalate	16.34	1322	1283619	114.29	ug/L	99
55)	2,6-Dinitrotoluene	16.49	1336	327904	131.59	ug/L	94
56)	2-Nitroaniline	16.79	1365	304713	116.58	ug/L	81
57)	Acenaphthene	16.78	1364	1027941	108.94	ug/L	95
59)	2,4-Dinitrophenol	17.05	1390	208884	345.31	ug/L	89
60)	4-Nitrophenol	17.39	1422	151144	152.51	ug/L	93
61)	Dibenzofuran	17.19	1403	1484891	118.33	ug/L	87
62)	2,4-Dinitrotoluene	17.44	1427	437314	137.35	ug/L	80
64)	Diethylphthalate	18.13	1493	1240903	113.06	ug/L	98
65)	4-Chlorophenyl-phenylether	18.13	1493	468569	92.59	ug/L	93
66)	Fluorene	18.04	1485	1244825	124.66	ug/L	91
67)	4-Nitroaniline	18.36	1515	218240	140.62	ug/L	75
68)	2,4,6-Tribromophenol (Surr 5)	18.72	1549	158253	84.90	ug/L	97
69)	*D10 Phenanthrene (ISTD4)	20.35	1705	494728	40.00	ug/L	61
70)	4,6-Dinitro-2-Methylphenol	18.44	1523	268710	228.16	ug/L	92
71)	N-Nitrosodiphenylamine	18.50	1528	752790	142.11	ug/L	97
72)	4-Bromophenyl-phenylether	19.32	1607	289111	97.87	ug/L	93
73)	alpha-BHC	19.45	1619	206176	125.54	ug/L	96
74)	beta-BHC	20.14	1685	173651	133.82	ug/L	97
75)	Hexachlorobenzene	19.61	1635	330613	87.13	ug/L	87
76)	Atrazine	20.04	1676	292336	108.54	ug/L	94
77)	Pentachlorophenol	20.13	1684	234912	95.96	ug/L	95
78)	gamma-BHC	20.19	1690	173661	131.86	ug/L	80
79)	Phenanthrene	20.41	1711	1755519	114.21	ug/L	99
80)	Anthracene	20.53	1722	1836669	116.87	ug/L	96
81)	delta-BHC	20.75	1743	165213	145.16	ug/L	81
82)	Carbazole	21.02	1769	1549192	164.63	ug/L	85
83)	Heptachlor	21.69	1833	348570	131.58	ug/L	57
84)	Di-N-Butylphthalate	22.20	1882	2681891	120.32	ug/L	98
85)	Aldrin	22.42	1903	327922	122.18	ug/L	93
86)	Heptachlor Epoxide	23.26	1983	202735	111.53	ug/L	94
87)	Malathion	22.36	1897	478186	127.92	ug/L	96
88)	Parathion	22.61	1921	397278	139.10	ug/L	79

perator ID: TIM Quant Rev: 7 Quant Time: 940920 16:38
utput File: ^M6746::D1 Injected at: 940920 15:56
ata File: >M6746::A7 Dilution Factor: 1.00000
ame: 120 NG STANDARD Instrument ID: HP00006
isc: HP-6 SEMIVOLATILE

D File: IDSVW6::SC
itle: Semi-volatile Target Compounds
ast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
89)	Isodrin	23.03	1961	225985	113.50	ug/L	78
90)	Supona	23.41	1997	202108	99.60	ug/L	70
91)	Fluoranthene	23.39	1996	1617788	97.51	ug/L	83
92)	*D12 Chrysene (ISTD 5)	27.00	2340	440463	40.00	ug/L	84
93)	Pyrene	23.93	2047	1820562	120.11	ug/L	82
95)	Endosulfan 1	23.99	2053	51714	125.13	ug/L	86
96)	4,4'-DDE	24.47	2099	306538	122.83	ug/L	78
97)	alpha-Chlordane	24.04	2058	107689	86.08	ug/L	98
98)	D14 Terphenyl (Surr 6)	24.50	2101	927378	98.08	ug/L	74
99)	Dieldrin	24.51	2102	360177	118.70	ug/L	92
00)	Endrin	24.95	2144	117987	135.62	ug/L	80
01)	Endosulfan 2	25.13	2162	58065	146.38	ug/L	95
02)	4,4'-DDD	25.28	2176	585557	114.77	ug/L	92
03)	Endrin Aldehyde	25.50	2197	97097	854.23	ug/L	77
04)	Butylbenzylphthalate	25.91	2236	1203782	146.33	ug/L	83
05)	4,4'-DDT	25.99	2244	518487	156.26	ug/L	91
06)	3,3'-Dichlorobenzidine	27.05	2345	220948	122.97	ug/L	94
07)	Benzo(a)Anthracene	26.96	2337	1550321	122.68	ug/L	97
08)	bis(2-Ethylhexyl)Phthalate	27.44	2382	1663250	145.84	ug/L	93
09)	Chrysene	27.07	2347	1373084	108.04	ug/L	96
10)	*D12 Perylene (ISTD 6)	30.31	2657	355814	40.00	ug/L	97
11)	Di-n-Octyl Phthalate	28.90	2522	3082850	122.53	ug/L	96
12)	Benzo(b)Fluoranthene	29.52	2582	1761376	115.75	ug/L	95
13)	Benzo(k)Fluoranthene	29.58	2587	1311213	102.52	ug/L	93
14)	Benzo(a)Pyrene	30.20	2647	1511935	116.90	ug/L	92
15)	Indeno(1,2,3-cd)Pyrene	32.76	2892	1683090	137.50	ug/L	85
16)	Dibenzo(a,h)Anthracene	32.84	2900	1349534	126.04	ug/L	74
17)	Benzo(g,h,i)Perylene	33.47	2960	1422387	151.76	ug/L	68

* Compound is ISTD

QUANT REPORT

)perator ID: TIM
)utput File: ^M6740::D1
)ata File: >M6740::A7
lame: 160 NG STANDARD A
lisc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940920 15:50
Injected at: 940920 11:18
Dilution Factor: 1.00000
Instrument ID: HP00006

:D File: IDSVW6::SC
:itle: Semi-volatile Target Compounds
,ast Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.18	589	184221	40.00	ug/L	95
8)	Aniline	8.58	532	1495260	142.01	ug/L	96
10)	Phenol	8.79	552	1300678	125.17	ug/L	82
11)	bis(-2-Chloroethyl)Ether	8.81	554	1157959	124.82	ug/L	96
12)	2-Chlorophenol	8.79	552	1001465	140.25	ug/L	96
14)	1,3-Dichlorobenzene	9.07	579	1110586	154.23	ug/L	96
15)	1,4-Dichlorobenzene	9.22	593	1144563	151.73	ug/L	95
16)	Benzyl Alcohol	9.76	645	620951	162.87	ug/L	80
17)	1,2-Dichlorobenzene	9.66	635	1097040	152.77	ug/L	96
19)	2-Methylphenol	10.16	683	994774	167.69	ug/L	98
20)	bis(2-chloroisopropyl)Ether	10.11	678	1206098	94.22	ug/L	65
23)	4-Methylphenol	10.56	721	1095193	175.74	ug/L	95
24)	N-Nitroso-Di-n-Propylamine	10.49	715	753166	146.88	ug/L	66
25)	Hexachloroethane	10.36	702	591492	188.02	ug/L	62
26)	*D8 Naphthalene (ISTD2)	12.30	888	684572	40.00	ug/L	94
28)	Nitrobenzene	10.70	735	1145386	158.29	ug/L	93
29)	Isophorone	11.32	794	2473929	152.81	ug/L	94
30)	2-Nitrophenol	11.49	810	592374	168.80	ug/L	96
31)	2,4-Dimethylphenol	11.80	840	1033382	194.52	ug/L	96
32)	bis(-2-Chloroethoxy)Methane	12.00	859	1491674	158.61	ug/L	96
33)	Benzoic Acid	12.47	904	715544	183.67	ug/L	84
34)	2,4-Dichlorophenol	12.12	870	830124	179.02	ug/L	98
35)	1,2,4-Trichlorobenzene	12.24	882	865808	178.88	ug/L	95
36)	Naphthalene	12.36	893	2826001	147.79	ug/L	99
37)	4-Chloroaniline	12.67	923	1290273	224.58	ug/L	99
40)	Hexachlorobutadiene	12.86	941	409480	157.19	ug/L	94
43)	4-Chloro-3-Methylphenol	14.02	1052	997178	207.14	ug/L	96
44)	2-Methylnaphthalene	14.08	1058	1939822	152.20	ug/L	95
45)	*D10 Acenaphthene (ISTD3)	16.69	1308	412314	40.00	ug/L	91
46)	Hexachlorocyclopentadiene	14.67	1114	477507	213.03	ug/L	95
47)	2,4,6-Trichlorophenol	14.94	1140	553017	140.52	ug/L	94
48)	2,4,5-Trichlorophenol	15.02	1148	641606	145.18	ug/L	92
50)	2-Chloronaphthalene	15.27	1172	1800711	151.98	ug/L	95
51)	3-Nitroaniline	15.75	1218	794951	144.42	ug/L	86
52)	1,2-Diphenylhydrazine	18.53	1483	2846530	138.98	ug/L	62
53)	Acenaphthylene	16.31	1271	2933271	132.43	ug/L	96
54)	Dimethyl Phthalate	16.36	1276	2137879	149.43	ug/L	99
55)	2,6-Dinitrotoluene	16.51	1290	569146	179.30	ug/L	95
56)	2-Nitroaniline	16.82	1320	668024	200.64	ug/L	78
57)	Acenaphthene	16.79	1317	1643194	136.70	ug/L	94

)perator ID: TIM Quant Rev: 7 Quant Time: 940920 15:50
)utput File: ^M6740::D1 Injected at: 940920 11:18
)ata File: >M6740::A7 Dilution Factor: 1.00000
Iame: 160 NG STANDARD A Instrument ID: HP00006
Iisc: HP-6 SEMIVOLATILES

:D File: IDSVW6::SC
'itle: Semi-volatile Target Compounds
,ast Calibration: 940815 01:10 Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
59)	2,4-Dinitrophenol	17.07	1344	372335	483.20	ug/L	94
60)	4-Nitrophenol	17.42	1377	279420	221.33	ug/L	92
61)	Dibenzofuran	17.20	1356	2386132	149.27	ug/L	92
62)	2,4-Dinitrotoluene	17.46	1381	750930	185.15	ug/L	83
64)	Diethylphthalate	18.15	1447	1993430	142.58	ug/L	99
65)	4-Chlorophenyl-phenylether	18.14	1446	750010	116.35	ug/L	97
66)	Fluorene	18.06	1438	2004469	157.58	ug/L	90
67)	4-Nitroaniline	18.39	1470	411335	208.06	ug/L	76
69)	*D10 Phenanthrene (ISTD4)	20.35	1657	639772	40.00	ug/L	65
70)	4,6-Dinitro-2-Methylphenol	18.48	1478	463390M	304.26	ug/L	
71)	N-Nitrosodiphenylamine	18.52	1482	1117204	163.08	ug/L	97
72)	4-Bromophenyl-phenylether	19.33	1560	462139	120.98	ug/L	91
75)	Hexachlorobenzene	19.63	1588	547760	111.63	ug/L	87
77)	Pentachlorophenol	20.14	1637	433675	136.99	ug/L	96
79)	Phenanthrene	20.42	1664	2841378	142.95	ug/L	98
80)	Anthracene	20.54	1675	2931612	144.25	ug/L	96
82)	Carbazole	21.02	1721	2251454	185.02	ug/L	85
84)	Di-N-Butylphthalate	22.21	1835	4283057	148.59	ug/L	98
91)	Fluoranthene	23.40	1949	2845245	132.61	ug/L	81
92)	*D12 Chrysene (ISTD 5)	27.01	2295	568369	40.00	ug/L	88
93)	Pyrene	23.93	2000	2905664	148.56	ug/L	87
04)	Butylbenzylphthalate	25.90	2189	1958910	184.53	ug/L	82
06)	3,3'-Dichlorobenzidine	27.05	2299	230952	99.61	ug/L	94
07)	Benzo(a)Anthracene	26.98	2292	2641490	161.98	ug/L	97
08)	bis(2-Ethylhexyl)Phthalate	27.45	2337	2707705	183.99	ug/L	95
09)	Chrysene	27.10	2303	2270262	138.44	ug/L	97
10)	*D12 Perylene (ISTD 6)	30.32	2612	451795	40.00	ug/L	95
11)	Di-n-Octyl Phthalate	28.91	2477	5005569	156.69	ug/L	95
12)	Benzo(b)Fluoranthene	29.56	2539	3138993	162.46	ug/L	96
13)	Benzo(k)Fluoranthene	29.60	2543	1867550	115.00	ug/L	94
14)	Benzo(a)Pyrene	30.23	2603	2456067	149.56	ug/L	93
15)	Indeno(1,2,3-cd)Pyrene	32.80	2849	2799605	180.13	ug/L	82
16)	Dibenzo(a,h)Anthracene	32.88	2857	2164720	159.23	ug/L	73
17)	Benzo(g,h,i)Perylene	33.52	2918	2384946	200.41	ug/L	71

* Compound is ISTD

QUANT REPORT

Operator ID: TIM
Output File: ^M6745::D1
Data File: >M6745::A7
Name: 160 NG STANDARD B
Misc: HP-6 SEMIVOLATILE

Quant Rev: 7
Quant Time: 940920 16:04
Injected at: 940920 15:10
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940815 01:10
Last Qcal Time: 940920 13:37

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.18	637	145471	40.00	ug/L	96
3)	Pyridine	2.87	33	509762	398.45	ug/L	85
5)	2-Fluorophenol (Surr 1)	6.35	366	856014	170.84	ug/L	68
6)	1,4-Oxathiane	6.34	365	438883	65.42	ug/L	72
9)	D5 Phenol (Surr 2)	8.76	597	1134318	159.01	ug/L	73
13)	D4 2-Chlorophenol	8.76	597	842214	150.60	ug/L	91
18)	D4 1,2-Dichlorobenzene	9.61	679	850177	145.07	ug/L	94
21)	1,4-Dithiane	10.21	736	747659	176.33	ug/L	89
26)	*D8 Naphthalene (ISTD2)	12.28	935	531505	40.00	ug/L	96
27)	D5 Nitrobenzene (Surr 3)	10.65	778	968253	161.07	ug/L	84
38)	1,2,3-Trichlorobenzene	12.81	985	689850	172.61	ug/L	97
42)	Vapona	13.43	1045	1467203	215.76	ug/L	87
45)	*D10 Acenaphthene (ISTD3)	16.68	1356	303043	40.00	ug/L	92
49)	2-Fluorobiphenyl (Surr 4)	15.11	1206	1527208	170.49	ug/L	99
68)	2,4,6-Tribromophenol (Surr 5)	18.70	1550	223719	128.19	ug/L	98
69)	*D10 Phenanthrene (ISTD4)	20.34	1707	479230	40.00	ug/L	60
73)	alpha-BHC	19.43	1620	297978	187.31	ug/L	90
74)	beta-BHC	20.11	1685	234696	186.72	ug/L	94
76)	Atrazine	20.05	1679	422747	162.03	ug/L	90
78)	gamma-BHC	20.19	1693	248581	194.84	ug/L	83
81)	delta-BHC	20.75	1746	235405	213.52	ug/L	84
83)	Heptachlor	21.69	1836	472658	184.19	ug/L	59
85)	Aldrin	22.42	1906	459601	176.79	ug/L	96
86)	Heptachlor Epoxide	23.26	1986	283688	161.11	ug/L	95
87)	Malathion	22.37	1901	679818	187.73	ug/L	95
88)	Parathion	22.61	1924	535184	193.44	ug/L	80
89)	Isodrin	23.03	1964	317795	164.77	ug/L	75
90)	Supona	23.40	2000	302350	153.81	ug/L	72
92)	*D12 Chrysene (ISTD 5)	26.98	2341	424635	40.00	ug/L	88
95)	Endosulfan 1	23.99	2056	75705	190.01	ug/L	88
96)	4,4'-DDE	24.47	2102	428233	177.99	ug/L	79
97)	alpha-Chlordane	24.04	2061	153995	127.68	ug/L	98
98)	D14 Terphenyl (Surr 6)	24.50	2105	1208894	132.63	ug/L	78
99)	Dieldrin	24.52	2106	493463	168.69	ug/L	91
.00)	Endrin	24.96	2148	159154	189.76	ug/L	89
.01)	Endosulfan 2	25.14	2166	83838	219.23	ug/L	96
.02)	4,4'-DDD	25.29	2180	796887	162.01	ug/L	93
.03)	Endrin Aldehyde	25.51	2201	356363	3252.03	ug/L	70
.05)	4,4'-DDT	25.99	2247	682249	213.28	ug/L	93
.10)	*D12 Perylene (ISTD 6)	30.29	2659	333164	40.00	ug/L	97

* Compound is ISTD

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 09/20/94

Contractor: ARDL, INC. Time: 17:47

Contract No: Laboratory ID: >M6748

Instrument ID: HP-6 Initial Calibration Date: 09/21/94

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Dimethyl Disulfide	-	-	-		
Pyridine	.59730	.64898	8.65		
n-Nitrosodimethylamine	.69675	.78865	13.19		
2-Fluorophenol (Surr 1)	1.40807	1.38996	1.29		
1,4-Oxathiane	1.03223	1.30410	26.34		
Dimethylmethylphosphonate	-	-	-		
Aniline	1.70299	1.86099	9.28		
D5 Phenol (Surr 2)	2.00010	1.94306	2.85		
Phenol	1.86790	1.96809	5.36	*	
bis(-2-Chloroethyl)Ether	1.72852	1.79788	4.01		
2-Chlorophenol	1.40264	1.48271	5.71		
D4 2-Chlorophenol	1.40880	1.34101	4.81		
1,3-Dichlorobenzene	1.52858	1.57169	2.82		
1,4-Dichlorobenzene	1.58566	1.56400	1.37	*	
Benzyl Alcohol	.61504	.84063	36.68		
1,2-Dichlorobenzene	1.48582	1.47445	.77		
D4 1,2-Dichlorobenzene	1.56517	1.59846	2.13		
2-Methylphenol	1.40512	1.39562	.68		
bis(2-chloroisopropyl)Ether	1.77971	1.78732	.43		
1,4-Dithiane	1.21210	1.21899	.57		
Diisopropylmethylphosphonate	-	-	-		
4-Methylphenol	1.52136	1.49923	1.45		
N-Nitroso-Di-n-Propylamine	1.01264	1.08226	6.88		**
Hexachloroethane	.80163	.82194	2.53		
D5 Nitrobenzene (Surr 3)	.42403	.43675	3.00		
Nitrobenzene	.42739	.43218	1.12		
Isophorone	.88802	.90444	1.85		
2-Nitrophenol	.20932	.23462	12.09	*	
2,4-Dimethylphenol	.37612	.40694	8.19		
bis(-2-Chloroethoxy)Methane	.56719	.59548	4.99		
Benzoic Acid	.23905	.27304	14.22		
2,4-Dichlorophenol	.29963	.32063	7.01	*	

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 09/20/94

Contractor: ARDL, INC. Time: 17:47

Contract No: _____ Laboratory ID: >M6748

Instrument ID: HP-6 Initial Calibration Date: 09/21/94

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
1,2,4-Trichlorobenzene	.32414	.32746	1.03		
Naphthalene	1.09669	1.07585	1.90		
4-Chloroaniline	.32471	.31171	4.00		
1,2,3-Trichlorobenzene	.31853	.31804	.15		
Benzothiazole	-	-	-		
Hexachlorobutadiene	.15060	.15089	.19	*	
p-Chlorophenylmethyl sulfide	-	-	-		
Vapona	.64702	.66069	2.11		
4-Chloro-3-Methylphenol	.35197	.37208	5.72	*	
2-Methylnaphthalene	.76306	.76083	.29		
Hexachlorocyclopentadiene	.25051	.27420	9.45		**
2,4,6-Trichlorophenol	.34203	.37426	9.42	*	
2,4,5-Trichlorophenol	.37567	.39635	5.51		
2-Fluorobiphenyl (Surr 4)	1.23425	1.20716	2.19		
2-Chloronaphthalene	1.13624	1.17214	3.16		
3-Nitroaniline	.45898	.46508	1.33		
1,2-Diphenylhydrazine	1.84174	1.83614	.30		
Acenaphthylene	1.83767	1.83790	.01		
Dimethyl Phthalate	1.36078	1.36084	.00		
2,6-Dinitrotoluene	.31677	.33954	7.19		
2-Nitroaniline	.26864	.27772	3.38		
Acenaphthene	1.06077	1.05842	.22	*	
p-Chlorophenylmethyl sulfoxide	-	-	-		
2,4-Dinitrophenol	.16134	.20664	28.07		**
4-Nitrophenol	.13420	.15263	13.73		**
Dibenzofuran	1.59159	1.58012	.72		
2,4-Dinitrotoluene	.42746	.45259	5.88		
p-Chlorophenylmethyl sulfone	-	-	-		
Diethylphthalate	1.34828	1.36243	1.05		
4-Chlorophenyl-phenylether	.53012	.52479	1.01		
Fluorene	1.27507	1.27238	.21		
4-Nitroaniline	.22896	.22336	2.45		

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

Diff - % Difference from original average or curve

CC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 09/20/94

Contractor: ARDL, INC. Time: 17:47

Contract No: _____ Laboratory ID: >M6748

Instrument ID: HP-6 Initial Calibration Date: 09/21/94

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Tribromophenol (Surr 5)	.17516	.16649	4.95		
4,6-Dinitro-2-Methylphenol	.15086	.18870	25.09		
N-Nitrosodiphenylamine	.52005	.52657	1.25	*	
4-Bromophenyl-phenylether	.20017	.20665	3.24		
alpha-BHC	.13904	.14212	2.21		
beta-BHC	.11222	.11544	2.87		
Hexachlorobenzene	.23328	.23831	2.16		
Atrazine	.20061	.19577	2.41		
Pentachlorophenol	.14732	.16367	11.10	*	
gamma-BHC	.11799	.12192	3.34		
Phenanthrene	1.19481	1.19963	.40		
Anthracene	1.22897	1.25312	1.97		
delta-BHC	.10806	.10866	.56		
Carbazole	.96860	.96872	.01		
Heptachlor	.22388	.23807	6.34		
Di-N-Butylphthalate	1.82080	1.83251	.64		
Aldrin	.22319	.22971	2.92		
Heptachlor Epoxide	.13316	.13638	2.42		
Malathion	.30897	.31270	1.21		
Parathion	.22946	.25442	10.88		
Isodrin	.15833	.15575	1.63		
Supona	.14106	.13991	.82		
Fluoranthene	1.14527	1.10605	3.43	*	
Pyrene	1.36426	1.38491	1.51		
Benzidine	-	-	-		
Endosulfan 1	.03849	.03936	2.28		
4,4'-DDE	.24104	.24277	.71		
alpha-Chlordane	.08954	.08748	2.30		
D14 Terphenyl (Surr 6)	.81643	.80033	1.97		
Dieldrin	.28010	.28748	2.64		
Endrin	.07740	.08872	14.62		
Endosulfan 2	.04332	.04449	2.70		

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 09/20/94

Contractor: ARDL, INC. Time: 17:47

Contract No: _____ Laboratory ID: >M6748

Instrument ID: HP-6 Initial Calibration Date: 09/21/94

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % Diff for CCC is 30.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
4,4'-DDD	.44765	.44813	.11		
Endrin Aldehyde	.12307	.09099	26.07		
Butylbenzylphthalate	.90368	.91845	1.63		
4,4'-DDT	.38189	.40392	5.77		
3,3'-Dichlorobenzidine	.15516	.18028	16.19		
Benzo(a)Anthracene	1.18911	1.19786	.74		
bis(2-Ethylhexyl)Phthalate	1.28037	1.27835	.16		
Chrysene	1.12522	1.10414	1.87		
Di-n-Octyl Phthalate	2.86488	2.89721	1.13	*	
Benzo(b)Fluoranthene	1.57055	1.47414	6.14		
Benzo(k)Fluoranthene	1.35678	1.44055	6.17		
Benzo(a)Pyrene	1.41365	1.42910	1.09	*	
Indeno(1,2,3-cd)Pyrene	1.43347	1.36238	4.96		
Dibenzo(a,h)Anthracene	1.23853	1.29582	4.63		
Benzo(g,h,i)Perylene	1.30596	1.33557	2.27		

RF - Response Factor from daily standard file at 50.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

QUANT REPORT

Operator ID: TIM
Output File: ^M6748::D1
Data File: >M6748::A7
Name: 50 NG STANDARD
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940921 11:26
Injected at: 940920 17:47
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940921 11:19
Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	225449	40.00	ug/L	96
3)	Pyridine	2.91	36	182889	54.33	ug/L	84
4)	n-Nitrosodimethylamine	2.96	41	222251	56.60	ug/L	74
5)	2-Fluorophenol (Surr 1)	6.32	363	391707	49.36	ug/L	70
6)	1,4-Oxathiane	6.34	365	367510	63.17	ug/L	74
8)	Aniline	8.56	578	524448	54.64	ug/L	96
9)	D5 Phenol (Surr 2)	8.74	595	547576	48.57	ug/L	70
10)	Phenol	8.77	598	554631	52.68	ug/L	94
11)	bis(-2-Chloroethyl)Ether	8.79	600	506663	52.01	ug/L	95
12)	2-Chlorophenol	8.78	599	417843	52.85	ug/L	96
13)	D4 2-Chlorophenol	8.75	596	377911	47.59	ug/L	83
14)	1,3-Dichlorobenzene	9.05	625	442920	51.41	ug/L	96
15)	1,4-Dichlorobenzene	9.21	640	440753	49.32	ug/L	98
16)	Benzyl Alcohol	9.73	690	236900	68.34	ug/L	78
17)	1,2-Dichlorobenzene	9.64	681	415516	49.62	ug/L	96
18)	D4 1,2-Dichlorobenzene	9.61	678	450464	51.06	ug/L	94
19)	2-Methylphenol	10.15	730	393301	49.66	ug/L	99
20)	bis(2-chloroisopropyl)Ether	10.10	725	503687	50.21	ug/L	69
21)	1,4-Dithiane	10.20	735	343526	50.28	ug/L	93
23)	4-Methylphenol	10.53	766	422500	49.27	ug/L	96
24)	N-Nitroso-Di-n-Propylamine	10.45	759	304992	53.44	ug/L	69
25)	Hexachloroethane	10.36	750	231632	51.27	ug/L	67
26)	*D8 Naphthalene (ISTD2)	12.29	935	834932	40.00	ug/L	95
27)	D5 Nitrobenzene (Surr 3)	10.64	777	455816	51.50	ug/L	83
28)	Nitrobenzene	10.68	781	451046	50.56	ug/L	91
29)	Isophorone	11.29	839	943931	50.92	ug/L	94
30)	2-Nitrophenol	11.48	857	244867	56.04	ug/L	89
31)	2,4-Dimethylphenol	11.77	885	424708	54.10	ug/L	94
32)	bis(-2-Chloroethoxy)Methane	11.97	904	621486	52.49	ug/L	97
33)	Benzoic Acid	12.29	935	284967	57.11	ug/L	86
34)	2,4-Dichlorophenol	12.08	915	334629	53.50	ug/L	96
35)	1,2,4-Trichlorobenzene	12.23	929	341763	50.51	ug/L	95
36)	Naphthalene	12.33	939	1122825	49.05	ug/L	98
37)	4-Chloroaniline	12.66	970	325324	48.00	ug/L	96
38)	1,2,3-Trichlorobenzene	12.81	984	331932	49.92	ug/L	98
40)	Hexachlorobutadiene	12.86	989	157475	50.09	ug/L	93
42)	Vapona	13.45	1046	689534	51.06	ug/L	86
43)	4-Chloro-3-Methylphenol	14.01	1099	388332	52.86	ug/L	98
44)	2-Methylnaphthalene	14.07	1105	794051	49.85	ug/L	95
45)	*D10 Acenaphthene (ISTD3)	16.69	1356	484608	40.00	ug/L	92

Operator ID: TIM Quant Rev: 7 Quant Time: 940921 11:26
Output File: ^M6748::D1 Injected at: 940920 17:47
Data File: >M6748::A7 Dilution Factor: 1.00000
Name: 50 NG STANDARD Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

ID File: IDSVW6::SC
Title: Semi-volatile Target Compounds
Last Calibration: 940921 11:19 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	Hexachlorocyclopentadiene	14.65	1161	166099	54.73	ug/L	97
47)	2,4,6-Trichlorophenol	14.92	1187	226709	54.71	ug/L	94
48)	2,4,5-Trichlorophenol	15.01	1195	240096	52.75	ug/L	91
49)	2-Fluorobiphenyl (Surr 4)	15.11	1205	731248	48.90	ug/L	99
50)	2-Chloronaphthalene	15.26	1219	710034	51.58	ug/L	93
51)	3-Nitroaniline	15.72	1263	281726	50.66	ug/L	86
52)	1,2-Diphenylhydrazine	18.50	1529	1112261	49.85	ug/L	61
53)	Acenaphthylene	16.29	1318	1113326	50.01	ug/L	97
54)	Dimethyl Phthalate	16.34	1322	824345	50.00	ug/L	98
55)	2,6-Dinitrotoluene	16.47	1335	205679	53.59	ug/L	94
56)	2-Nitroaniline	16.79	1365	168230	51.69	ug/L	79
57)	Acenaphthene	16.76	1363	641147	49.89	ug/L	95
59)	2,4-Dinitrophenol	17.04	1389	125174	64.04	ug/L	90
60)	4-Nitrophenol	17.37	1421	92456	56.87	ug/L	94
61)	Dibenzofuran	17.17	1402	957176	49.64	ug/L	88
62)	2,4-Dinitrotoluene	17.42	1426	274163	52.94	ug/L	79
64)	Diethylphthalate	18.11	1492	825305	50.52	ug/L	96
65)	4-Chlorophenyl-phenylether	18.12	1493	317898	49.50	ug/L	88
66)	Fluorene	18.03	1484	770760	49.89	ug/L	90
67)	4-Nitroaniline	18.33	1513	135300	48.78	ug/L	78
68)	2,4,6-Tribromophenol (Surr 5)	18.71	1549	100852	47.52	ug/L	99
69)	*D10 Phenanthrene (ISTD4)	20.34	1705	735165	40.00	ug/L	59
70)	4,6-Dinitro-2-Methylphenol	18.42	1521	173410	62.54	ug/L	93
71)	N-Nitrosodiphenylamine	18.48	1527	483899	50.63	ug/L	97
72)	4-Bromophenyl-phenylether	19.31	1607	189906	51.62	ug/L	96
73)	alpha-BHC	19.43	1618	130600	51.11	ug/L	93
74)	beta-BHC	20.12	1684	106081	51.43	ug/L	94
75)	Hexachlorobenzene	19.61	1635	218998	51.08	ug/L	87
76)	Atrazine	20.01	1674	179904	48.79	ug/L	92
77)	Pentachlorophenol	20.12	1684	150403	55.55	ug/L	95
78)	gamma-BHC	20.18	1690	112042	51.67	ug/L	79
79)	Phenanthrene	20.40	1711	1102403	50.20	ug/L	98
80)	Anthracene	20.51	1721	1151565	50.98	ug/L	97
81)	delta-BHC	20.74	1743	99852	50.28	ug/L	78
82)	Carbazole	21.01	1769	890214	50.01	ug/L	85
83)	Heptachlor	21.69	1834	218776	53.17	ug/L	60
84)	Di-N-Butylphthalate	22.19	1882	1683998	50.32	ug/L	98
85)	Aldrin	22.41	1903	211090	51.46	ug/L	93
86)	Heptachlor Epoxide	23.25	1983	125329	51.21	ug/L	96
87)	Malathion	22.35	1897	287360	50.60	ug/L	97
88)	Parathion	22.59	1920	233797	55.44	ug/L	81

)perator ID: TIM Quant Rev: 7 Quant Time: 940921 11:26
)utput File: ^M6748::D1 Injected at: 940920 17:47
)ata File: >M6748::A7 Dilution Factor: 1.00000
Iame: 50 NG STANDARD Instrument ID: HP00006
Iisc: HP-6 SEMIVOLATILES

:D File: IDSVW6::SC
'itle: Semi-volatile Target Compounds
,ast Calibration: 940921 11:19 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
89)	Isodrin	23.02	1961	143127	49.19	ug/L	77
90)	Supona	23.39	1997	128567	49.59	ug/L	70
91)	Fluoranthene	23.37	1995	1016408	48.29	ug/L	71
92)	*D12 Chrysene (ISTD 5)	26.99	2341	649481	40.00	ug/L	87
93)	Pyrene	23.91	2046	1124343	50.76	ug/L	75
95)	Endosulfan 1	23.98	2053	31958	51.14	ug/L	74
96)	4,4'-DDE	24.45	2098	197090	50.36	ug/L	81
97)	alpha-Chlordane	24.03	2058	71021	48.85	ug/L	98
98)	D14 Terphenyl (Surr 6)	24.48	2101	649751	49.01	ug/L	75
99)	Dieldrin	24.50	2103	233391	51.32	ug/L	95
.00)	Endrin	24.94	2145	72028	57.31	ug/L	95
.01)	Endosulfan 2	25.13	2163	36120	51.35	ug/L	92
.02)	4,4'-DDD	25.28	2177	363818	50.05	ug/L	87
.03)	Endrin Aldehyde	25.50	2198	73874	36.97	ug/L	77
.04)	Butylbenzylphthalate	25.89	2236	745645	50.82	ug/L	82
.05)	4,4'-DDT	25.99	2245	327921	52.88	ug/L	89
.06)	3,3'-Dichlorobenzidine	27.03	2345	146360	58.09	ug/L	93
.07)	Benzo(a)Anthracene	26.95	2337	972485	50.37	ug/L	97
.08)	bis(2-Ethylhexyl)Phthalate	27.43	2383	1037828	49.92	ug/L	94
.09)	Chrysene	27.06	2347	896398	49.06	ug/L	96
10)	*D12 Perylene (ISTD 6)	30.31	2659	519833	40.00	ug/L	95
11)	Di-n-Octyl Phthalate	28.88	2522	1882581	50.56	ug/L	93
12)	Benzo(b)Fluoranthene	29.50	2581	957885	46.93	ug/L	94
13)	Benzo(k)Fluoranthene	29.56	2587	936059	53.09	ug/L	96
14)	Benzo(a)Pyrene	30.19	2647	928615	50.55	ug/L	95
15)	Indeno(1,2,3-cd)Pyrene	32.74	2892	885265	47.52	ug/L	85
16)	Dibenzo(a,h)Anthracene	32.81	2898	842012	52.31	ug/L	76
17)	Benzo(g,h,i)Perylene	33.43	2958	867843	51.13	ug/L	71

* Compound is ISTD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANK B4011

b Name: ARDL, INC. Contract: ---

b Code: --- Case No.: --- SAS No.: --- SDG No.: ---

trix: (soil/water) TCLP Lab Sample ID: BLANK B4011

mple wt/vol: 1000.0 (g/ml) mL Lab File ID: >M6749

vel: (low/med) LOW Date Received: NA

Moisture: --- decanted: (Y/N) N Date Extracted: 9/19/94

ncentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/94

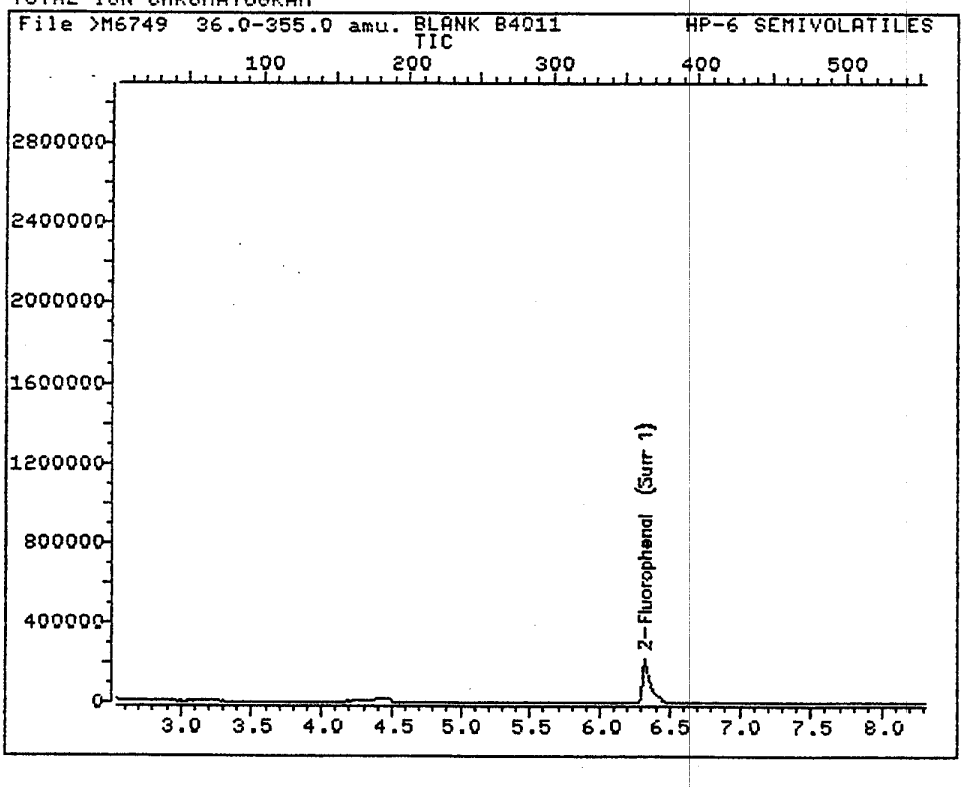
jection Volume: 1.0 (uL) Dilution Factor: 1.0

C Cleanup: (Y/N) N pH: ---

LP Preparation Date: 9/16/94

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
110-86-1	Pyridine	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-48-7	2-Methylphenol (o-Cresol)	10	U
108-39-4	3 & 4-Methylphenol(m&p-Cresol)	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U

TOTAL ION CHROMATOGRAM



Data File: >M6749::A7
Name: BLANK B4011
Misc: HP-6 SEMIVOLATILES

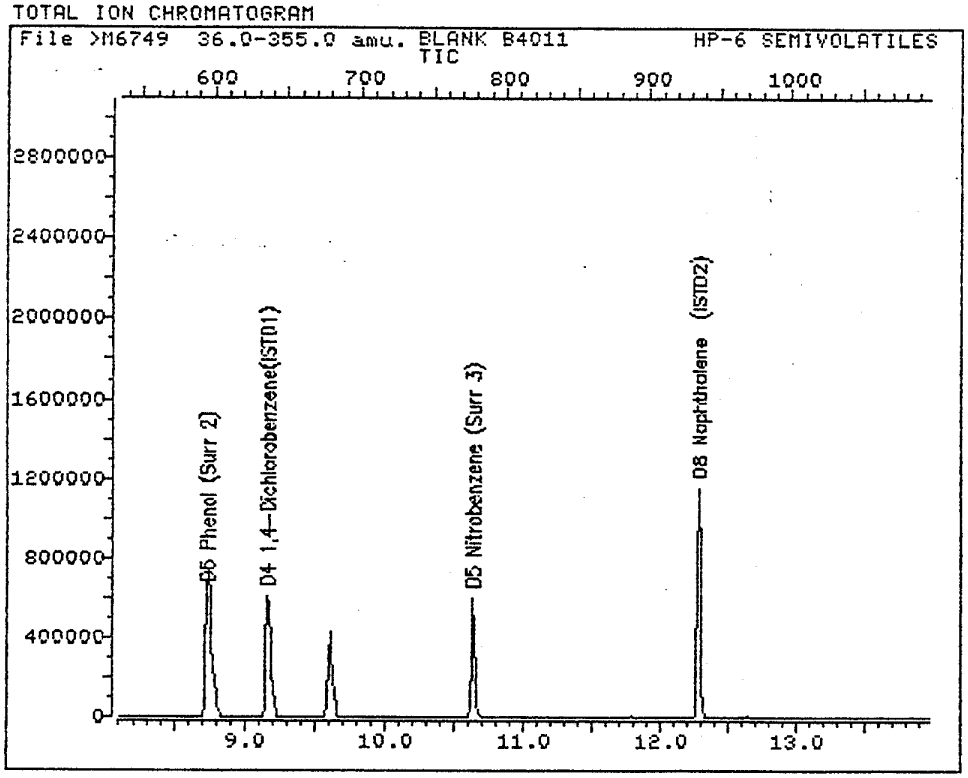
Quant Output File: ^M6749::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:55
Injected at: 940920 18:32

TOTAL ION CHROMATOGRAM



Data File: >M6749::A7
Name: BLANK B4011
Misc: HP-6 SEMIVOLATILES

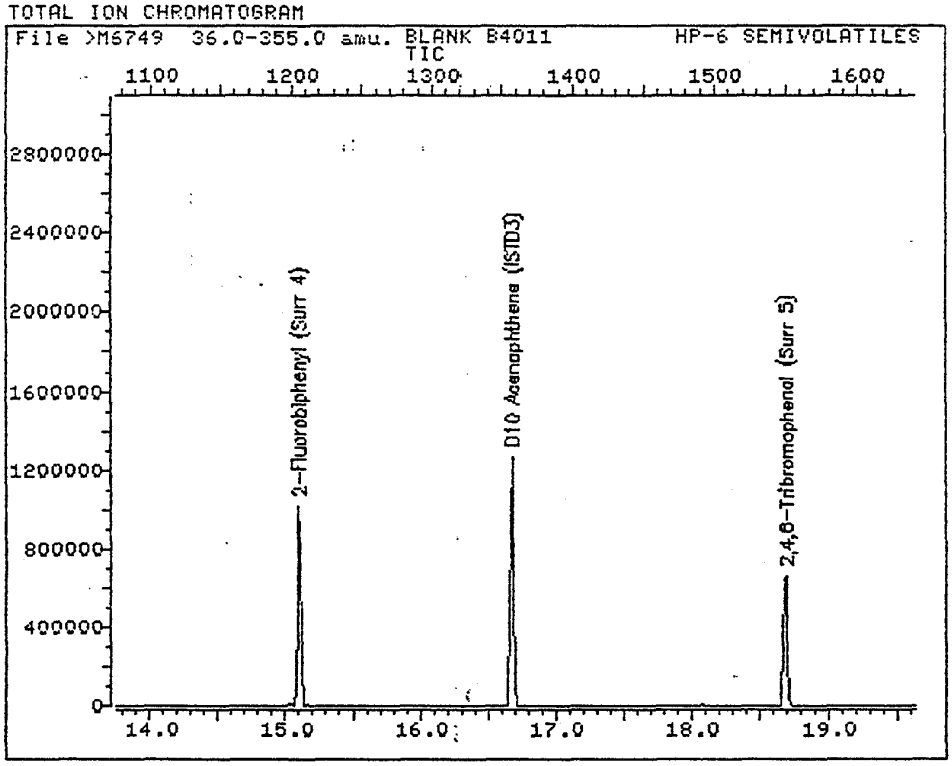
Quant Output File: ^M6749::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:55
Injected at: 940920 18:32

TOTAL ION CHROMATOGRAM

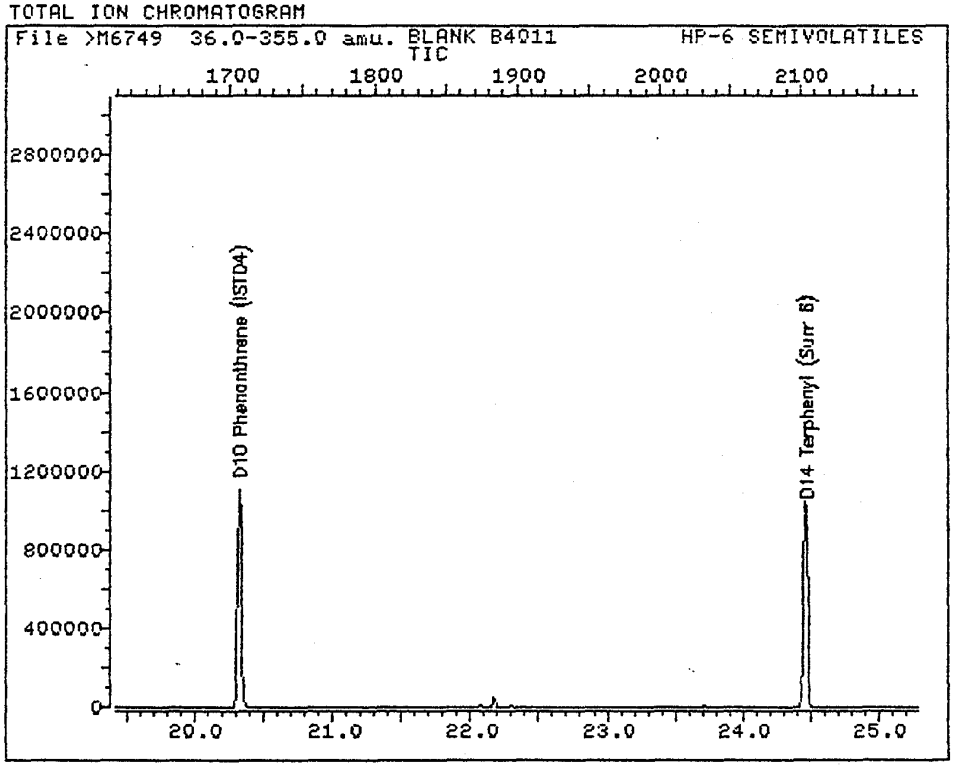


Data File: >M6749::A7 Quant Output File: ^M6749::D1
Name: BLANK B4011 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:55
Injected at: 940920 18:32

TOTAL ION CHROMATOGRAM



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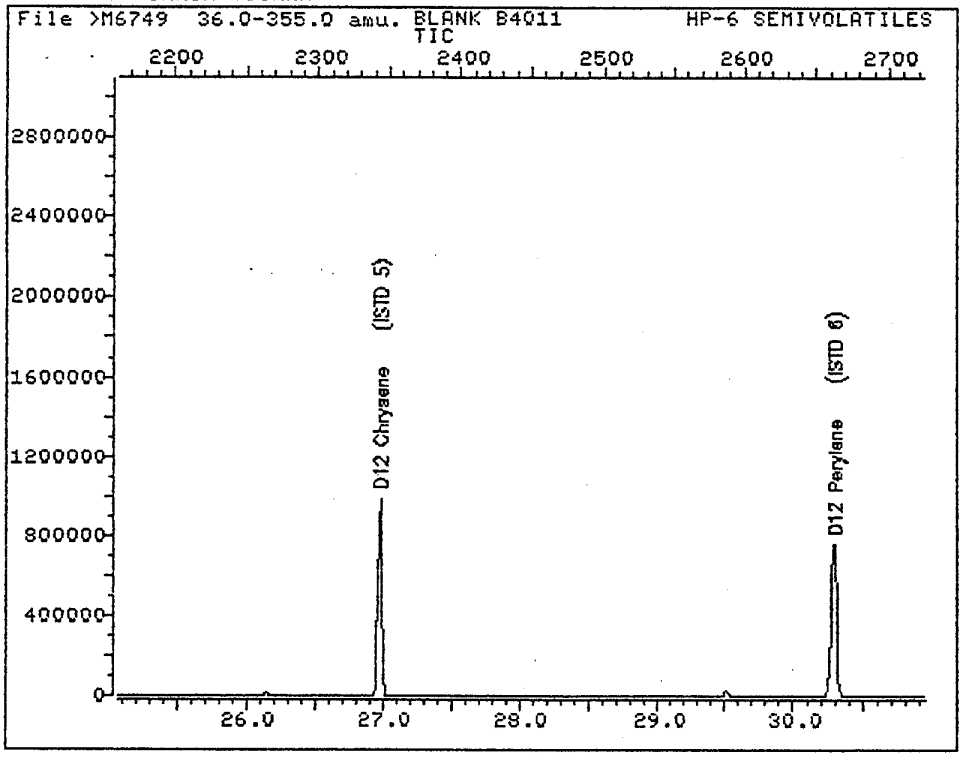
Name: BLANK B4011 Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:55
Injected at: 940920 18:32

TOTAL ION CHROMATOGRAM



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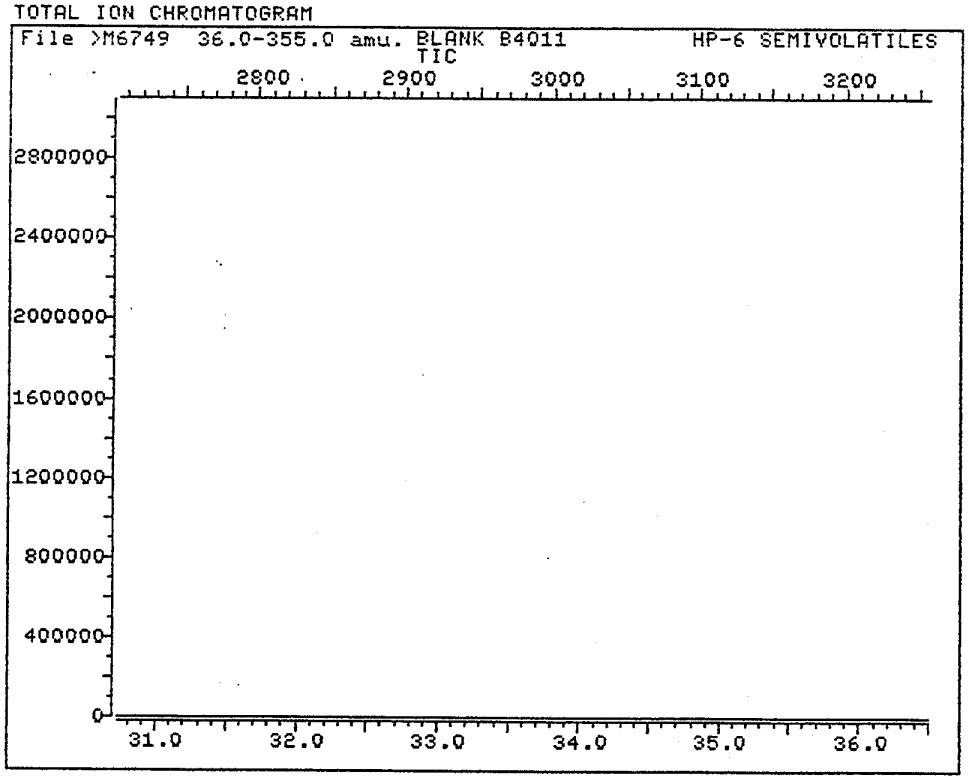
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:55
Injected at: 940920 18:32

TOTAL ION CHROMATOGRAM



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Misc: HP-6 SEMIVOLATILES

Quant Output File: ^M6749::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:55
Injected at: 940920 18:32

QUANT REPORT

Operator ID: TIM
Output File: ^M6749::D1
Data File: >M6749::A7
Name: BLANK B4011
Misc: HP-6 SEMIVOLATILES

Quant Rev: 7
Quant Time: 940921 11:55
Injected at: 940920 18:32
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21
Last Qcal Time: 940920 17:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.16	636	240008	40.00	ug/L	95
3)	2-Fluorophenol (Surr 1)	6.32	363	285518	34.23	ug/L	71
4)	D5 Phenol (Surr 2)	8.74	595	261319	22.41	ug/L	71
11)	*D8 Naphthalene (ISTD2)	12.28	935	889808	40.00	ug/L	96
12)	D5 Nitrobenzene (Surr 3)	10.64	777	362267	37.29	ug/L	84
18)	*D10 Acenaphthene (ISTD3)	16.68	1357	508528	40.00	ug/L	91
22)	2-Fluorobiphenyl (Surr 4)	15.10	1205	573756	37.39	ug/L	97
27)	2,4,6-Tribromophenol (Surr 5)	18.70	1550	128246	60.59	ug/L	99
28)	*D10 Phenanthrene (ISTD4)	20.32	1706	756089	40.00	ug/L	60
33)	*D12 Chrysene (ISTD 5)	26.98	2344	673250	40.00	ug/L	87
34)	D14 Terphenyl (Surr 6)	24.47	2104	694981	51.59	ug/L	76
35)	*D12 Perylene (ISTD 6)	30.30	2663	523219	40.00	ug/L	97

* Compound is ISTD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANN94TR00101MS

ab Name: ARDL, INC. Contract: ANNETTE ISLAND

ab Code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

atrix: (soil/water) TCLP Lab Sample ID: 9883-1MS

ample wt/vol: 1000.0 (g/ml) mL Lab File ID: >M6751

evel: (low/med) LOW Date Received: 9/16/94

Moisture: --- decanted: (Y/N) N Date Extracted: 9/19/94

oncentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/94

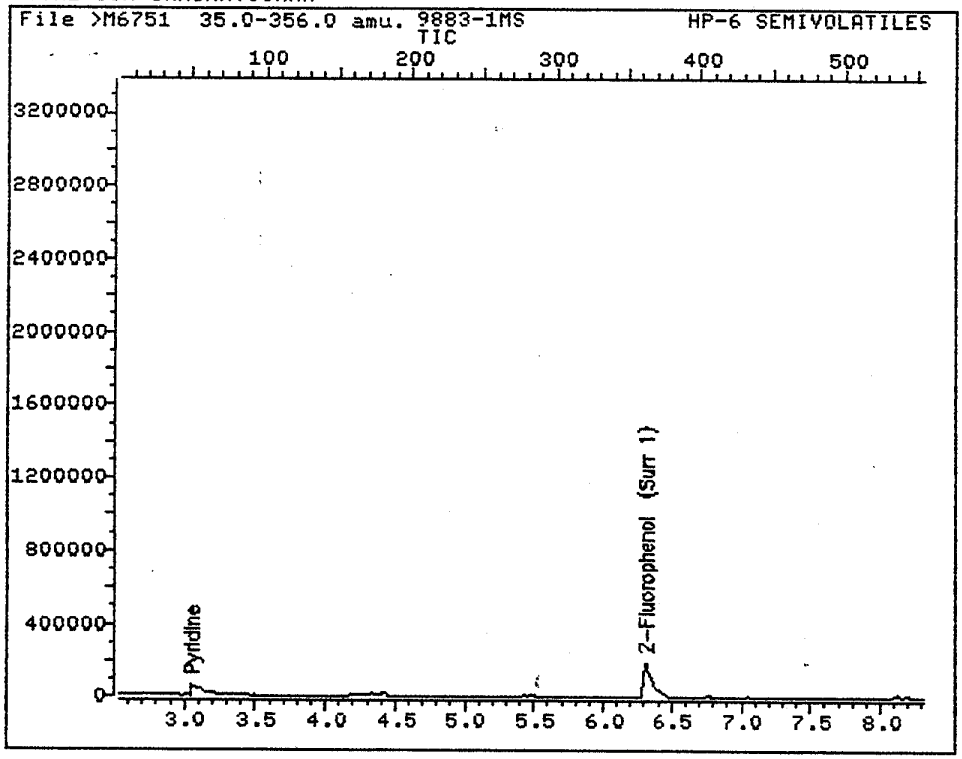
njection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: 5.0

CLP Preparation Date: 9/16/94

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
110-86-1	Pyridine	15	
106-46-7	1,4-Dichlorobenzene	19	
95-48-7	2-Methylphenol (o-Cresol)	30	
108-39-4	3 & 4-Methylphenol(m&p-Cresol)	56	
67-72-1	Hexachloroethane	17	
98-95-3	Nitrobenzene	34	
87-68-3	Hexachlorobutadiene	17	
88-06-2	2,4,6-Trichlorophenol	35	
95-95-4	2,4,5-Trichlorophenol	41	J
121-14-2	2,4-Dinitrotoluene	36	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	48	J

TOTAL ION CHROMATOGRAM



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Misc: HP-6 SEMIVOLATILES

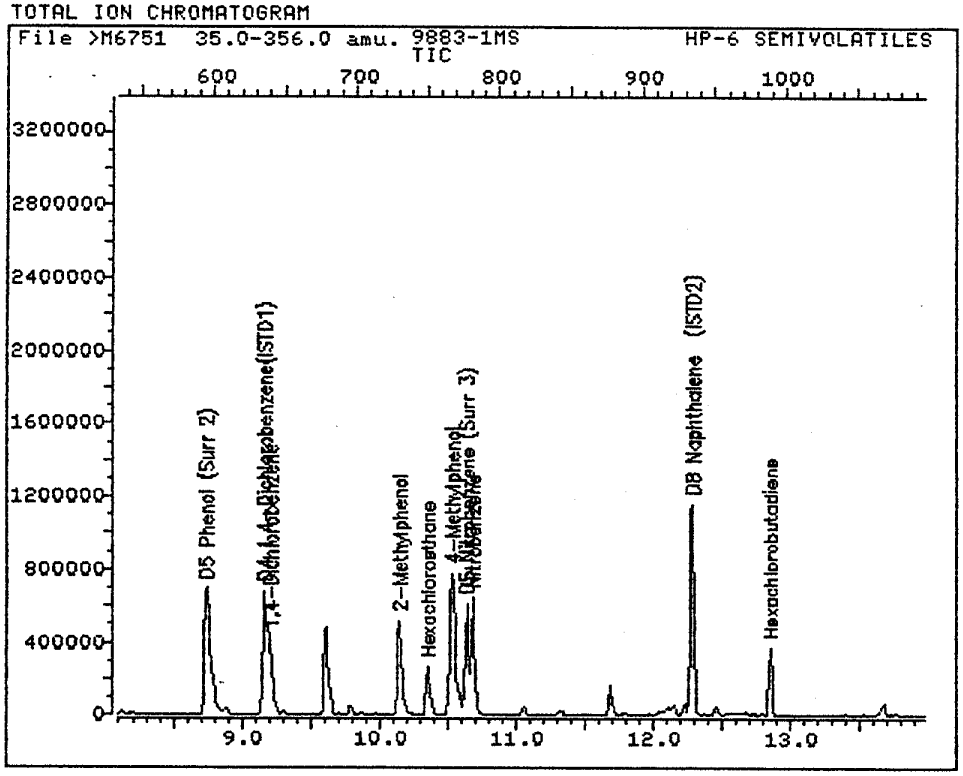
Quant Output File: ^M6751::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:59
Injected at: 940920 20:04

TOTAL ION CHROMATOGRAM



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Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES

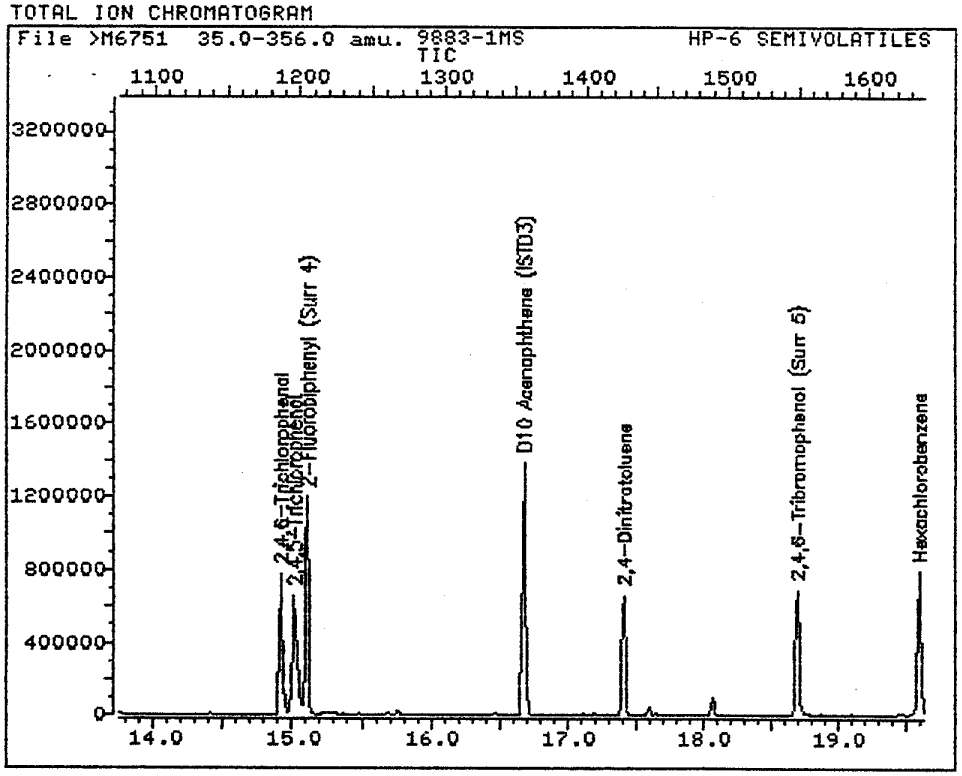
Quant Output File: ^M6751::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:59
Injected at: 940920 20:04

TOTAL ION CHROMATOGRAM



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Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES

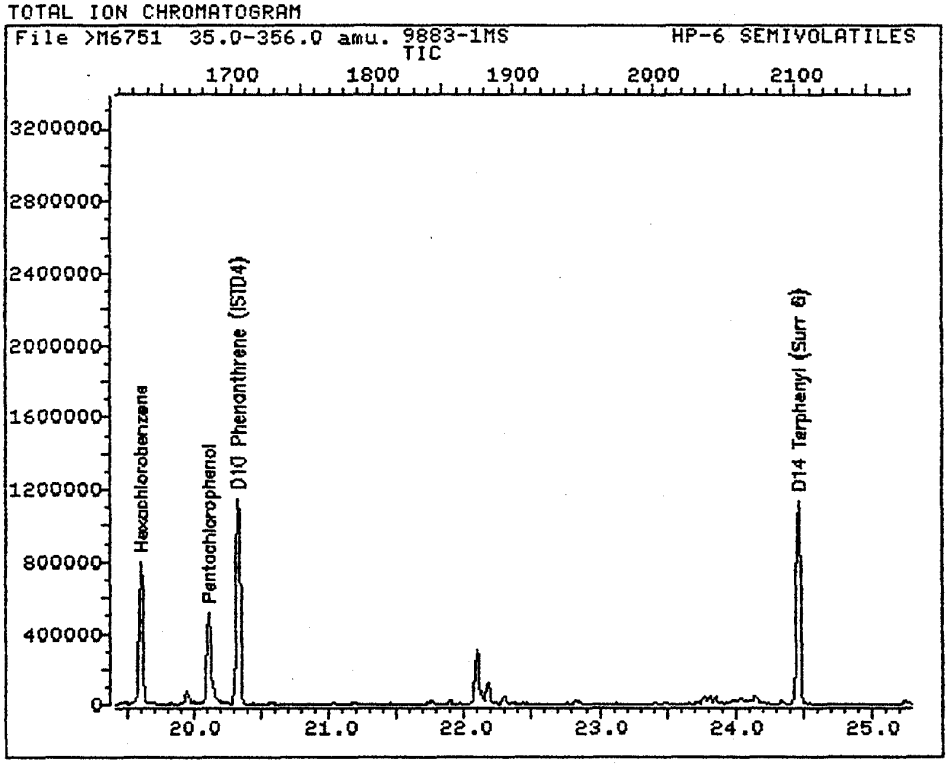
Quant Output File: ^M6751::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:59
Injected at: 940920 20:04

TOTAL ION CHROMATOGRAM

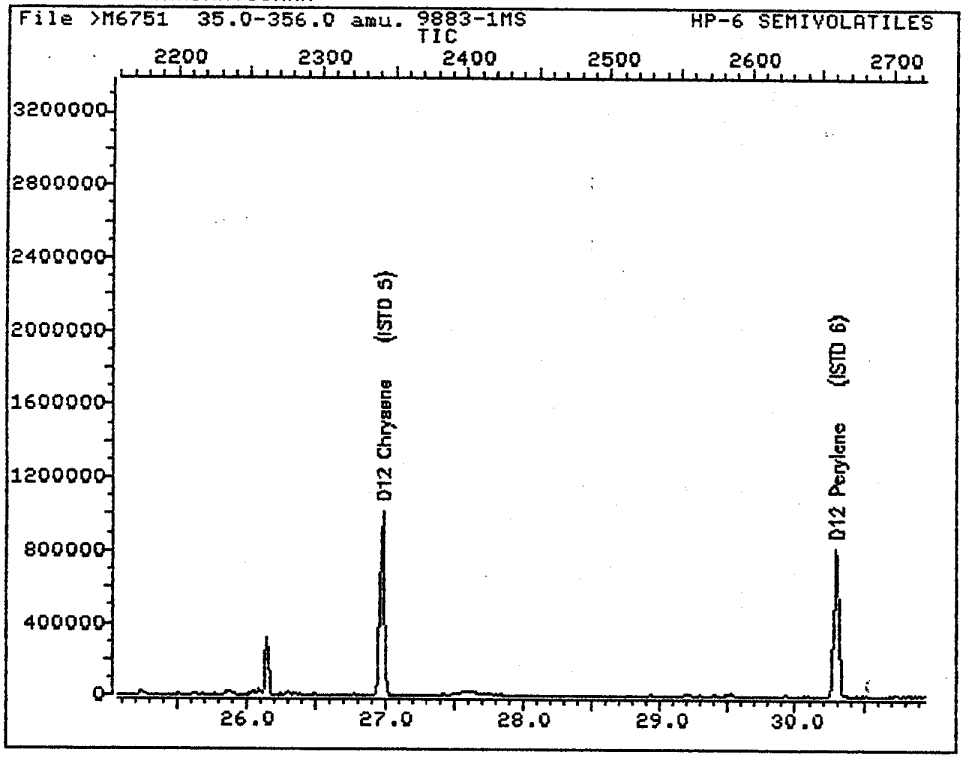


Data File: >M6751::A7 Quant Output File: ^M6751::D1
Name: 9883-1MS Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:59
Injected at: 940920 20:04

TOTAL ION CHROMATOGRAM



Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES

Quant Output File: ^M6751::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:59
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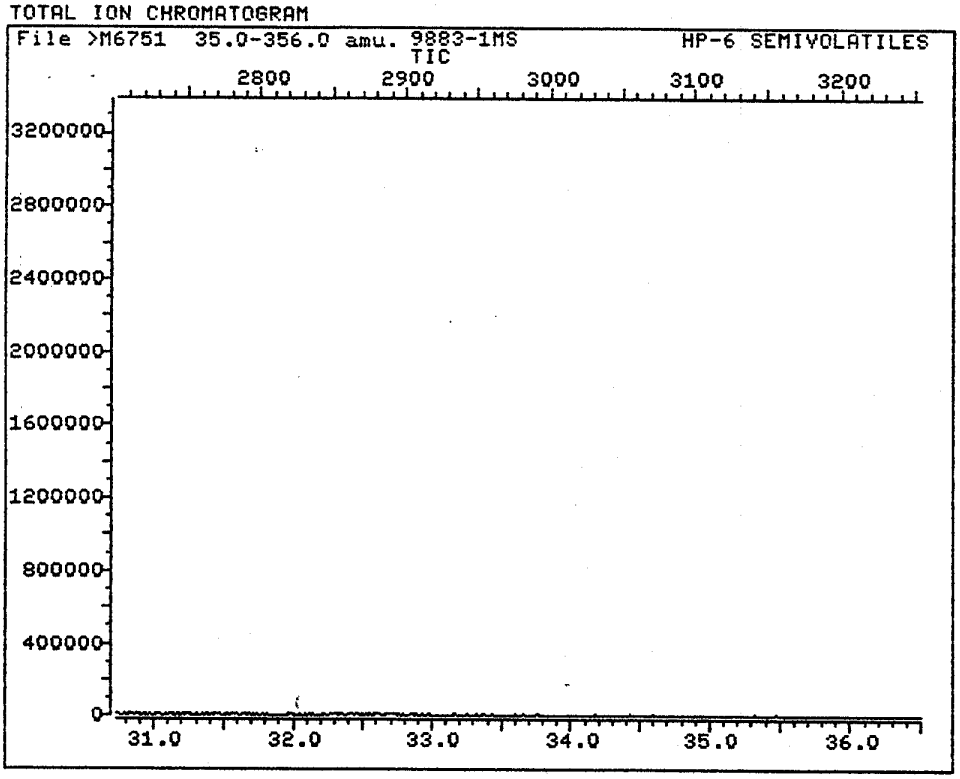
TOTAL ION CHROMATOGRAM



Data File: >M6751::A7
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Misc: HP-6 SEMIVOLATILES

Quant Output File: ^M6751::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 11:59
Injected at: 940920 20:04

QUANT REPORT

Operator ID: TIM
Output File: ^M6751::D1
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES

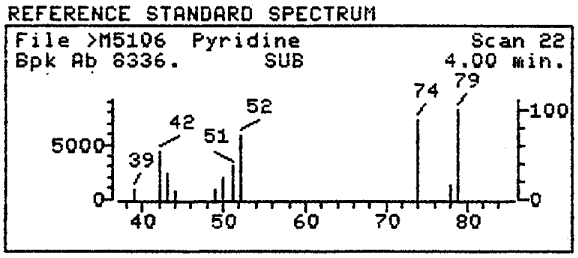
Quant Rev: 7
Quant Time: 940921 11:59
Injected at: 940920 20:04
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21
Last Qcal Time: 940920 17:47

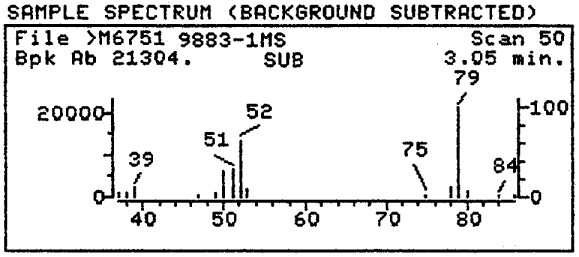
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	259679	40.00	ug/L	96
2)	Pyridine	3.05	50	64671	15.35	ug/L	96
3)	2-Fluorophenol (Surr 1)	6.31	362	277230	30.72	ug/L	71
4)	D5 Phenol (Surr 2)	8.74	595	269532	21.37	ug/L	73
6)	1,4-Dichlorobenzene	9.21	640	197587	19.46	ug/L	99
7)	2-Methylphenol	10.15	730	274902	30.34	ug/L	92
8)	4-Methylphenol	10.53	767	540594	55.54	ug/L	87
10)	Hexachloroethane	10.36	750	89019	16.68	ug/L	65
11)	*D8 Naphthalene (ISTD2)	12.29	935	946341	40.00	ug/L	95
12)	D5 Nitrobenzene (Surr 3)	10.64	777	356923	34.54	ug/L	84
13)	Nitrobenzene	10.68	781	350535	34.28	ug/L	91
16)	Hexachlorobutadiene	12.85	989	62241	17.44	ug/L	92
18)	*D10 Acenaphthene (ISTD3)	16.68	1356	547296	40.00	ug/L	90
20)	2,4,6-Trichlorophenol	14.92	1187	178522	34.86	ug/L	94
21)	2,4,5-Trichlorophenol	15.01	1196	224158	41.33	ug/L	94
22)	2-Fluorobiphenyl (Surr 4)	15.11	1205	603430	36.53	ug/L	98
26)	2,4-Dinitrotoluene	17.41	1426	223617	36.11	ug/L	79
27)	2,4,6-Tribromophenol (Surr 5)	18.70	1549	143251	62.89	ug/L	99
28)	*D10 Phenanthrene (ISTD4)	20.33	1705	792047	40.00	ug/L	61
30)	Hexachlorobenzene	19.60	1635	200141	42.41	ug/L	67
31)	Pentachlorophenol	20.11	1684	154542	47.69	ug/L	96
33)	*D12 Chrysene (ISTD 5)	26.98	2342	677265	40.00	ug/L	87
34)	D14 Terphenyl (Surr 6)	24.47	2102	719896	53.13	ug/L	75
35)	*D12 Perylene (ISTD 6)	30.30	2660	522785	40.00	ug/L	96

* Compound is ISTD

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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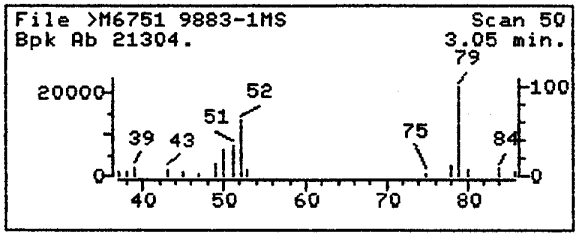
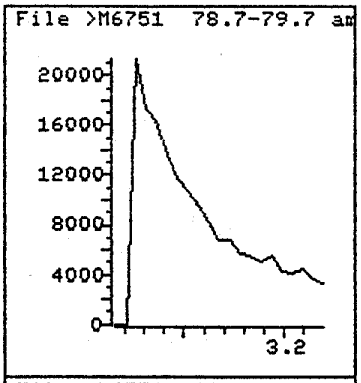
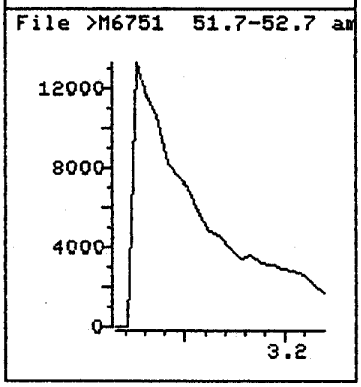






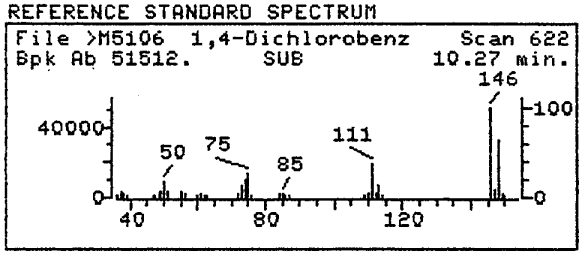
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

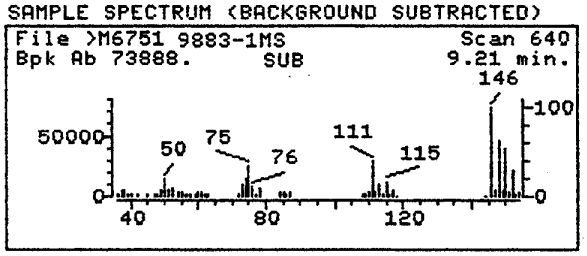
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 2
Compound Name : Pyridine
Scan Number : 50
Retention Time: 3.05 min.
Quant Ion : 52.0
Area : 64671
Concentration : 15.35 ug/L
q-value : 96

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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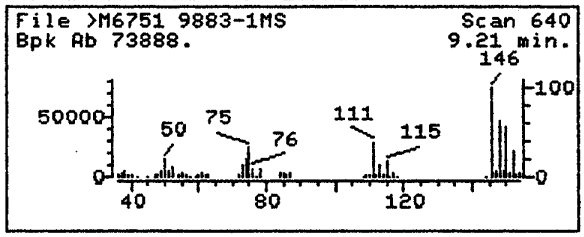
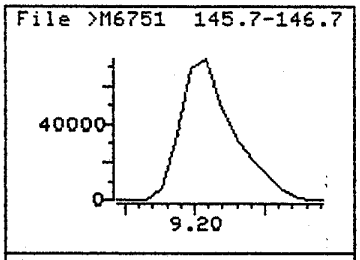
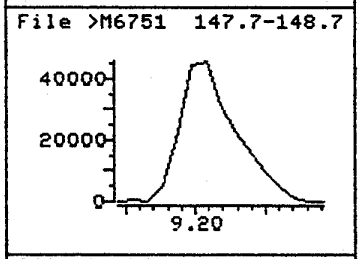
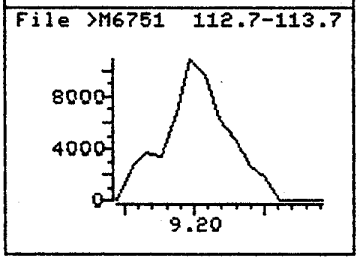








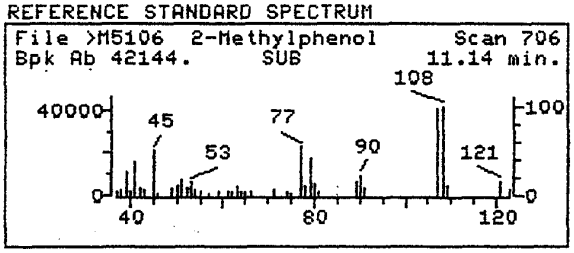
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

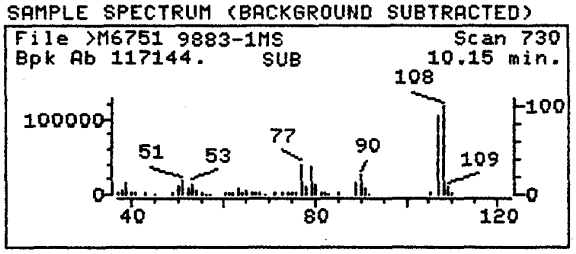
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 6
Compound Name : 1,4-Dichlorobenzene
Scan Number : 640
Retention Time: 9.21 min.
Quant Ion : 146.0
Area : 197587
Concentration : 19.46 ug/L
q-value : 99

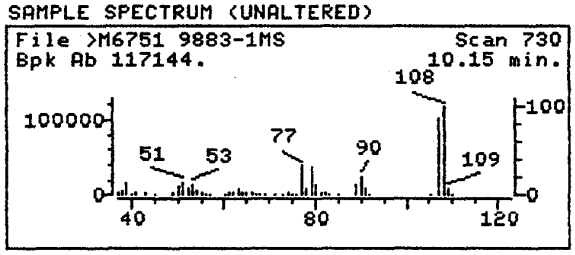
REFERENCE STANDARD SPECTRUM

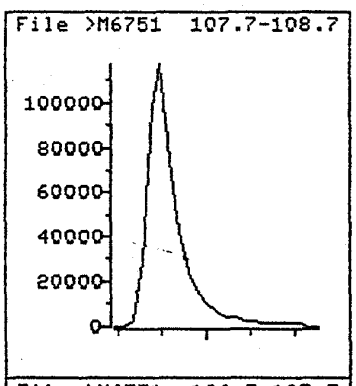


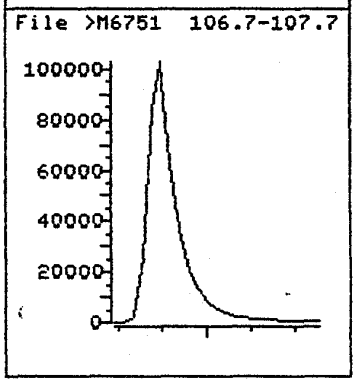
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







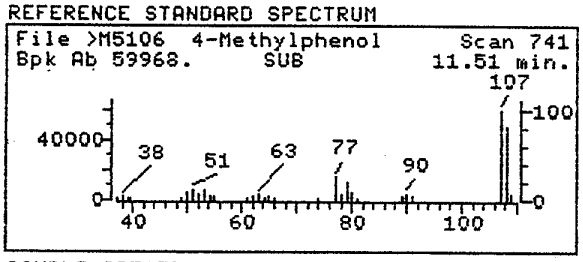
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

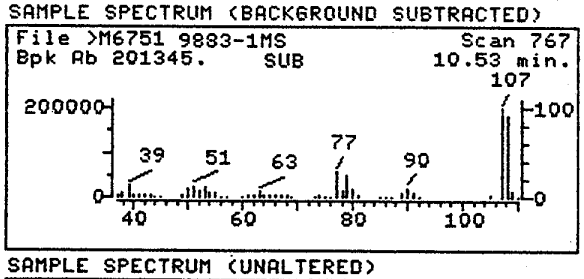
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 7
Compound Name : 2-Methylphenol
Scan Number : 730
Retention Time: 10.15 min.
Quant Ion : 108.0
Area : 274902
Concentration : 30.34 ug/L
q-value : 92

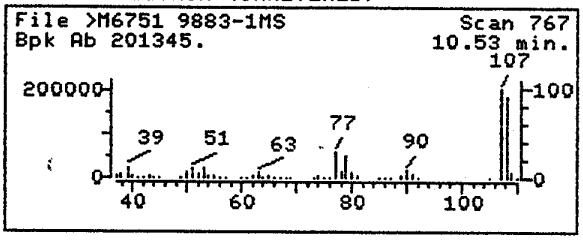
REFERENCE STANDARD SPECTRUM

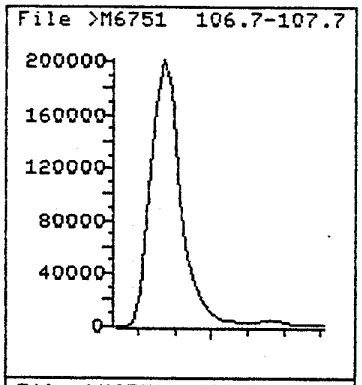


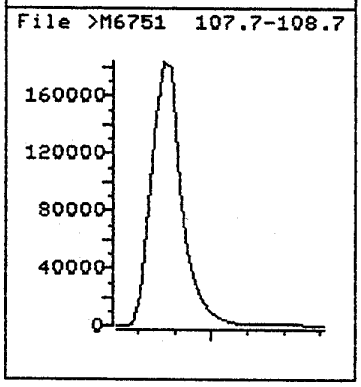
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







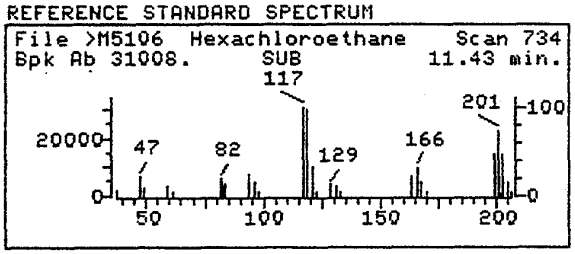
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

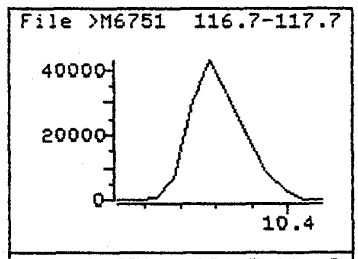
Quant Output File: ^M6751::D1
Instrument ID: HP00006

Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

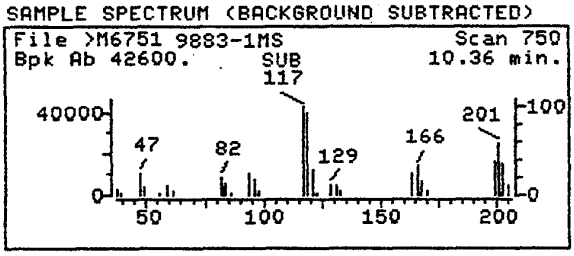
Compound No : 8
Compound Name : 4-Methylphenol
Scan Number : 767
Retention Time: 10.53 min.
Quant Ion : 108.0
Area : 540594
Concentration : 55.54 ug/L
q-value : 87

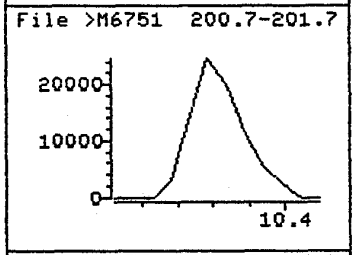
REFERENCE STANDARD SPECTRUM



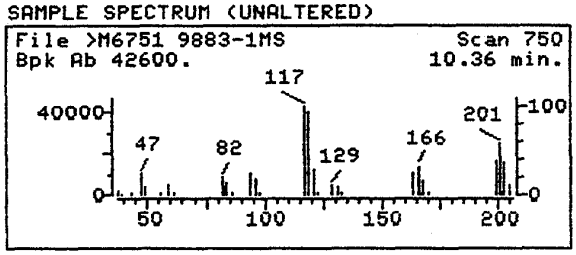


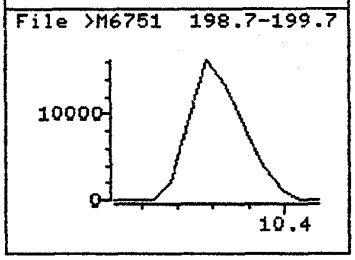
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)





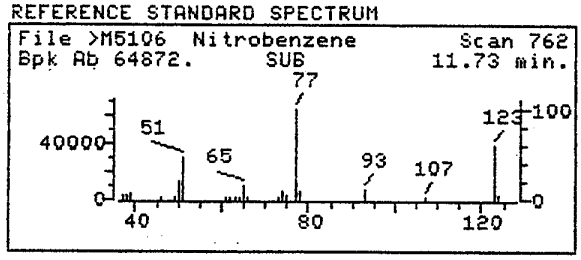
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

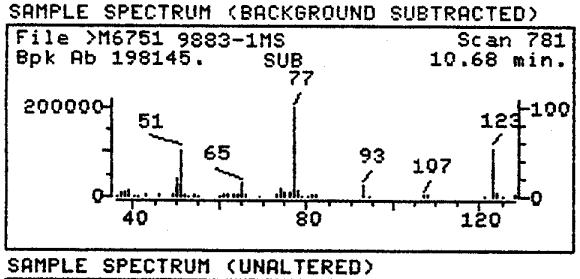
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 10
Compound Name : Hexachloroethane
Scan Number : 750
Retention Time: 10.36 min.
Quant Ion : 117.0
Area : 89019
Concentration : 16.68 ug/L
q-value : 65

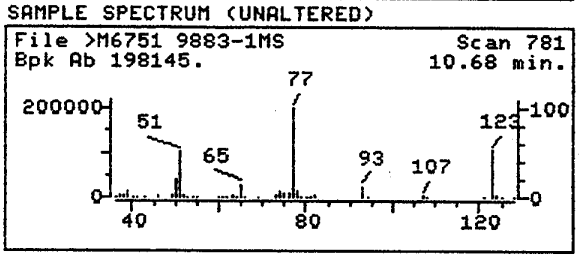
REFERENCE STANDARD SPECTRUM

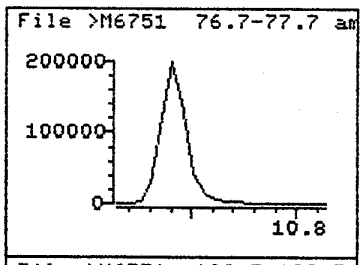


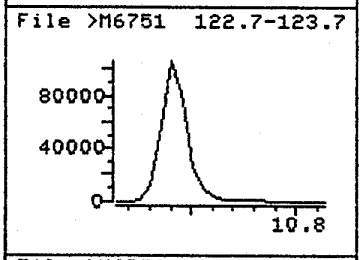
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

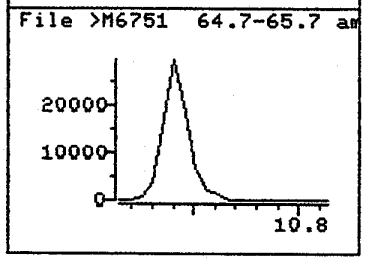


SAMPLE SPECTRUM (UNALTERED)









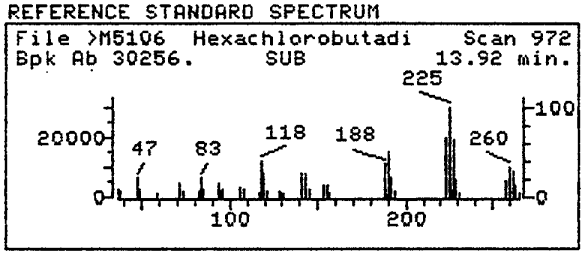
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

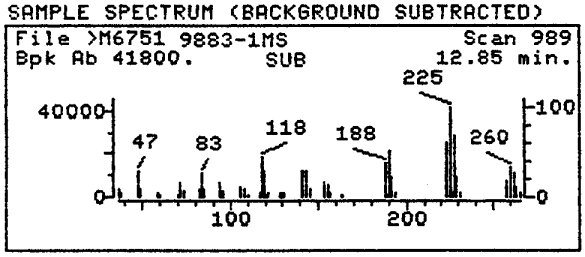
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 13
Compound Name : Nitrobenzene
Scan Number : 781
Retention Time: 10.68 min.
Quant Ion : 77.0
Area : 350535
Concentration : 34.28 ug/L
q-value : 91

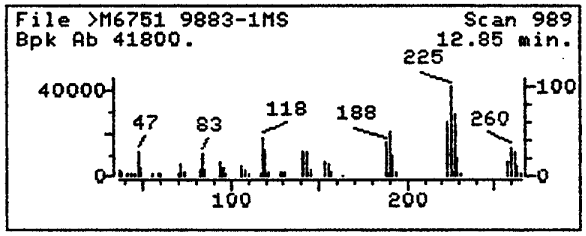
REFERENCE STANDARD SPECTRUM

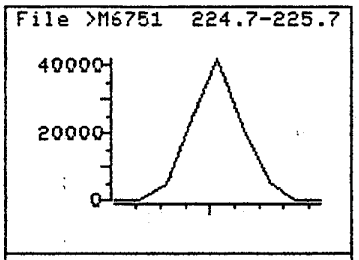


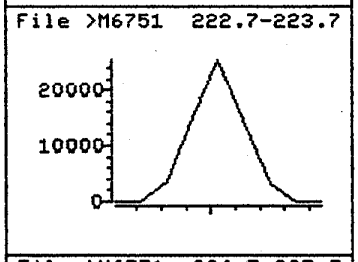
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

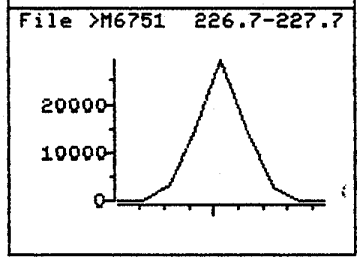


SAMPLE SPECTRUM (UNALTERED)









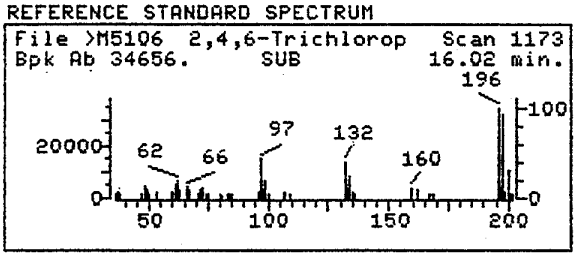
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

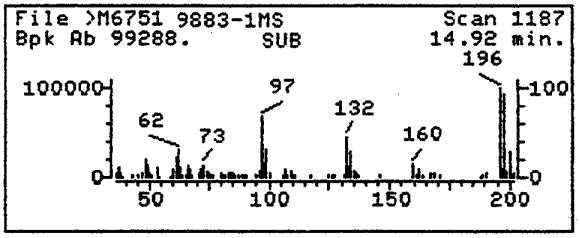
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 16
Compound Name : Hexachlorobutadiene
Scan Number : 989
Retention Time: 12.85 min.
Quant Ion : 225.0
Area : 62241
Concentration : 17.44 ug/L
q-value : 92

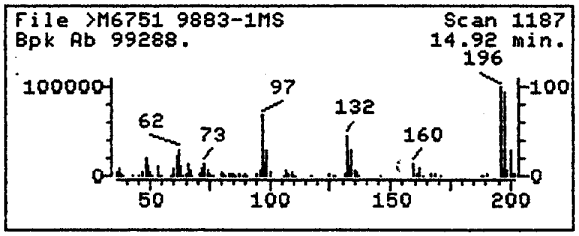
REFERENCE STANDARD SPECTRUM

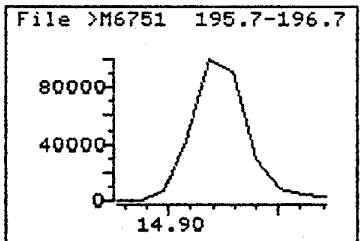


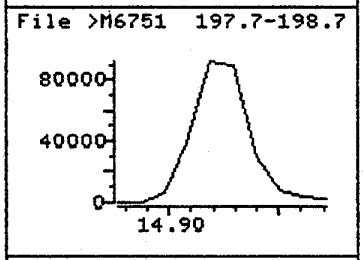
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

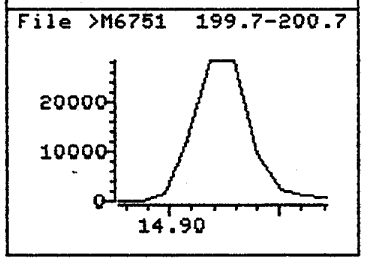


SAMPLE SPECTRUM (UNALTERED)









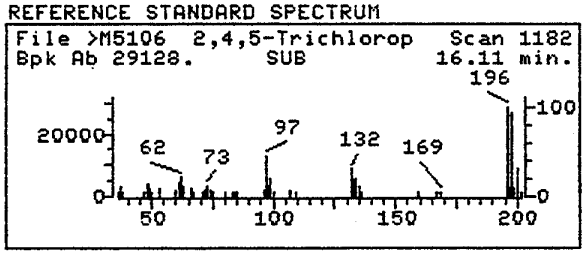
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

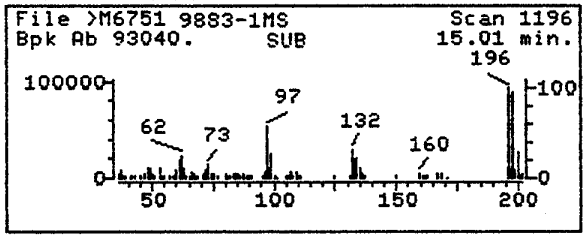
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 20
Compound Name : 2,4,6-Trichlorophenol
Scan Number : 1187
Retention Time: 14.92 min.
Quant Ion : 196.0
Area : 178522
Concentration : 34.86 ug/L
q-value : 94

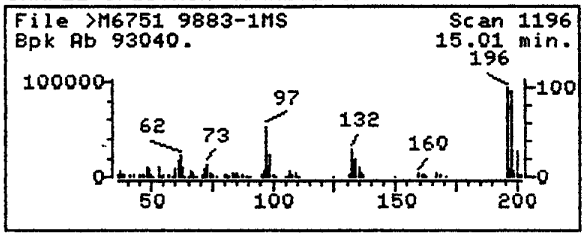
REFERENCE STANDARD SPECTRUM

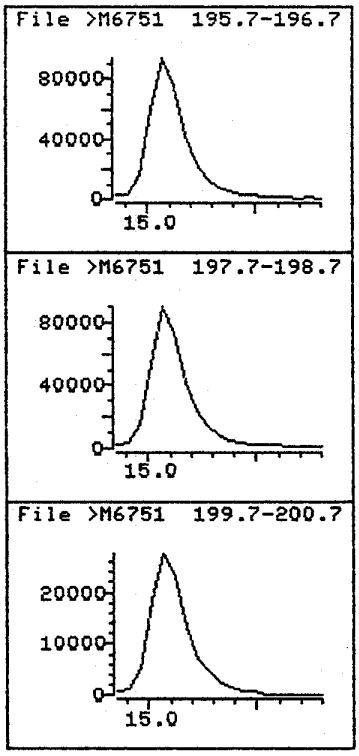


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





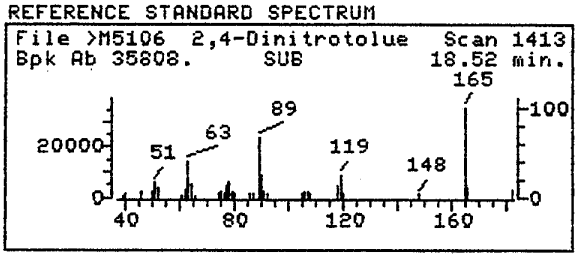
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

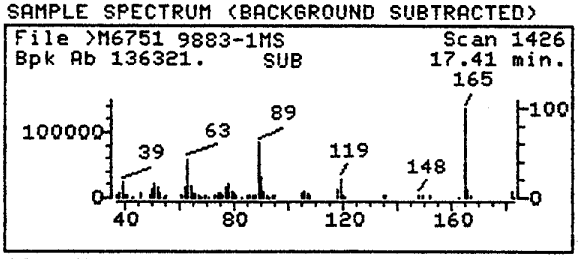
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 21
Compound Name : 2,4,5-Trichlorophenol
Scan Number : 1196
Retention Time: 15.01 min.
Quant Ion : 196.0
Area : 224158
Concentration : 41.33 ug/L
q-value : 94

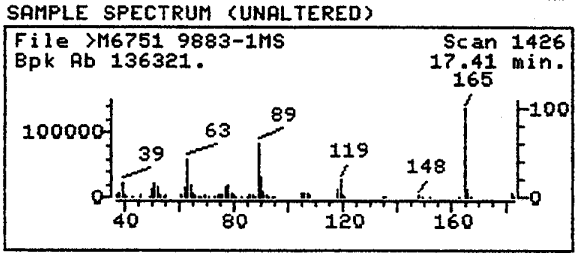
REFERENCE STANDARD SPECTRUM

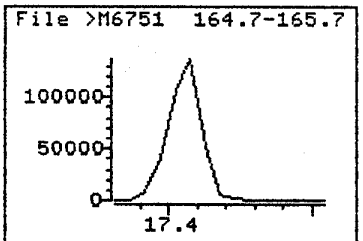


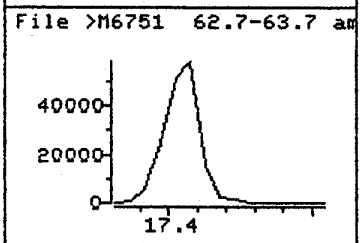
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

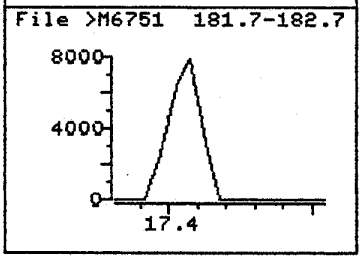


SAMPLE SPECTRUM (UNALTERED)









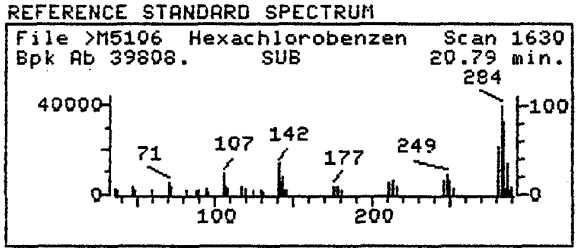
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

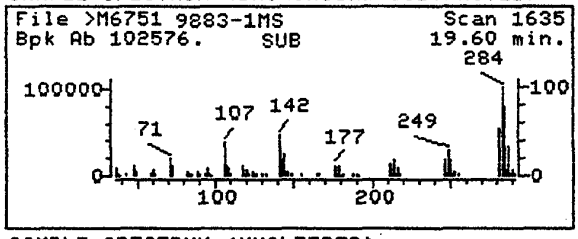
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 26
Compound Name : 2,4-Dinitrotoluene
Scan Number : 1426
Retention Time: 17.41 min.
Quant Ion : 165.0
Area : 223617
Concentration : 36.11 ug/L
q-value : 79

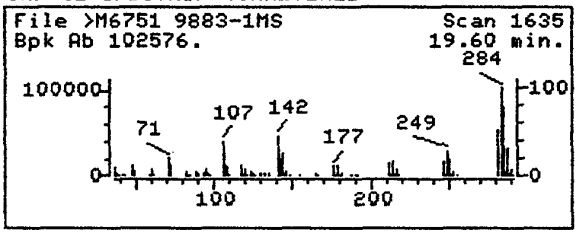
REFERENCE STANDARD SPECTRUM

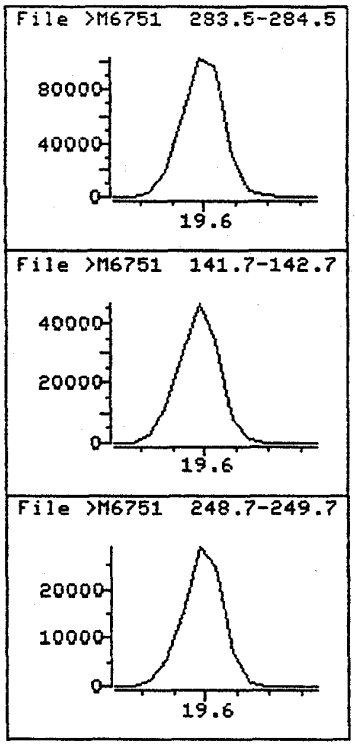


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





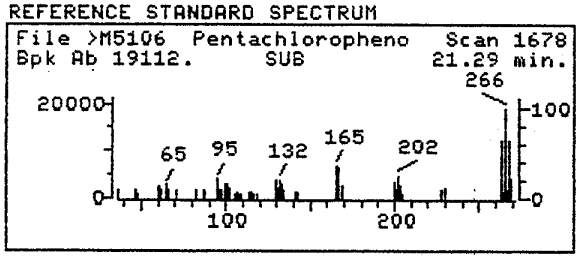
Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

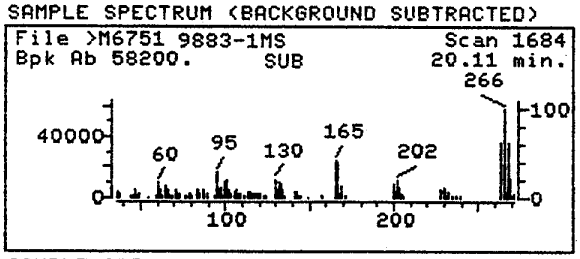
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 30
Compound Name : Hexachlorobenzene
Scan Number : 1635
Retention Time: 19.60 min.
Quant Ion : 283.8
Area : 200141
Concentration : 42.41 ug/L
q-value : 67

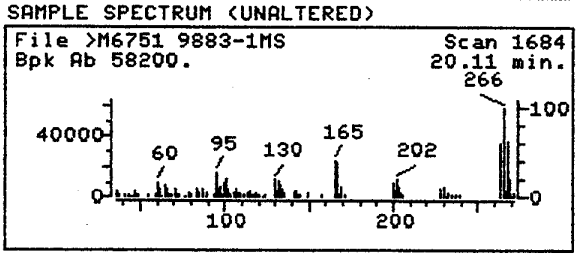
REFERENCE STANDARD SPECTRUM

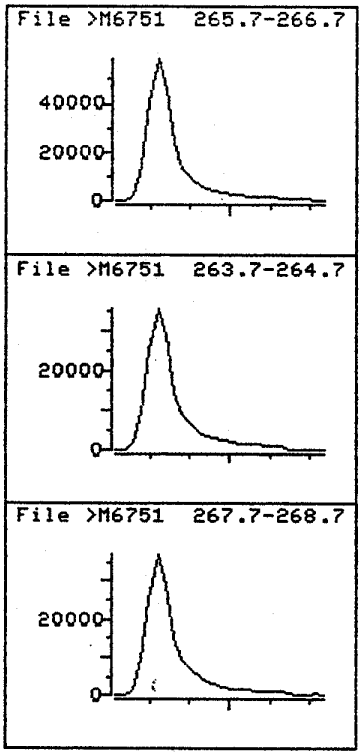


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





Data File: >M6751::A7
Name: 9883-1MS
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 11:59
Injected at: 940920 20:04
Last Qcal Time: 940920 17:47

Quant Output File: ^M6751::D1
Instrument ID: HP00006

Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 31
Compound Name : Pentachlorophenol
Scan Number : 1684
Retention Time: 20.11 min.
Quant Ion : 266.0
Area : 154542
Concentration : 47.69 ug/L
q-value : 96

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ANN94TR00101MSD

ab Name: ARDL, INC. Contract: ANNETTE ISLAND

ab Code: --- Case No.: 9883 SAS No.: --- SDG No.: ---

atrix: (soil/water) TCLP Lab Sample ID: 9883-1MSD

ample wt/vol: 1000.0 (g/ml) mL Lab File ID: >M6752

evel: (low/med) LOW Date Received: 9/16/94

Moisture: --- decanted: (Y/N) N Date Extracted: 9/19/94

oncentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/94

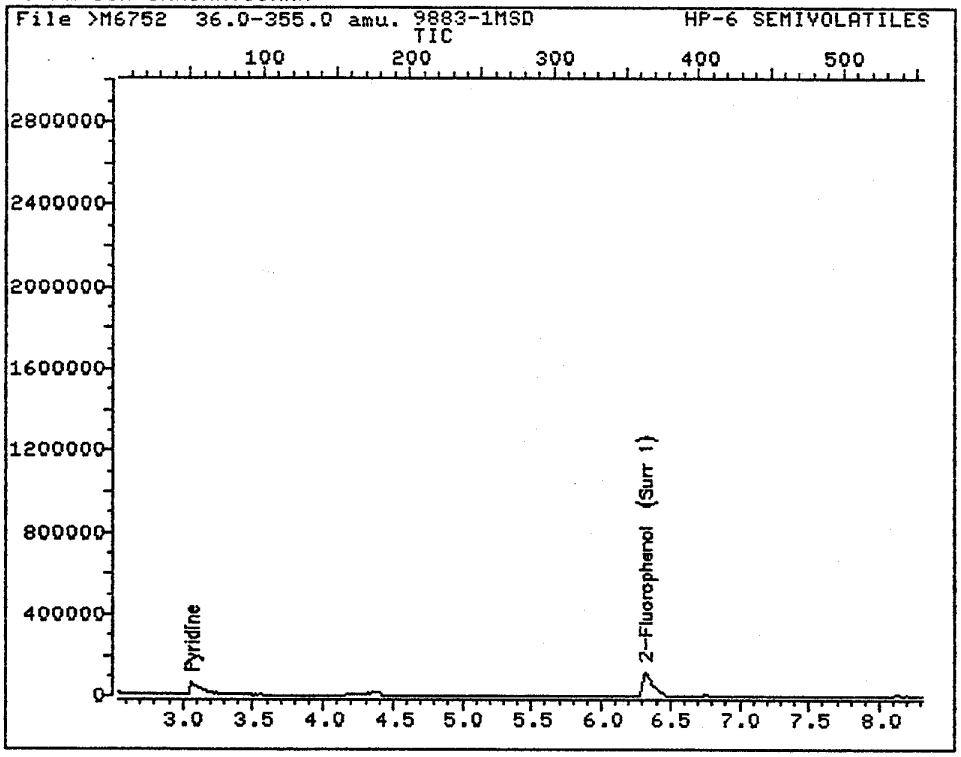
ijection Volume: 1.0 (uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: 5.0

CLP Preparation Date: 9/16/94

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
110-86-1	Pyridine	15	
106-46-7	1,4-Dichlorobenzene	23	
95-48-7	2-Methylphenol (o-Cresol)	24	
108-39-4	3 & 4-Methylphenol(m&p-Cresol)	45	
67-72-1	Hexachloroethane	21	
98-95-3	Nitrobenzene	36	
87-68-3	Hexachlorobutadiene	21	
88-06-2	2,4,6-Trichlorophenol	31	
95-95-4	2,4,5-Trichlorophenol	35	J
121-14-2	2,4-Dinitrotoluene	36	
118-74-1	Hexachlorobenzene	40	
87-86-5	Pentachlorophenol	43	J

TOTAL ION CHROMATOGRAM



Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES

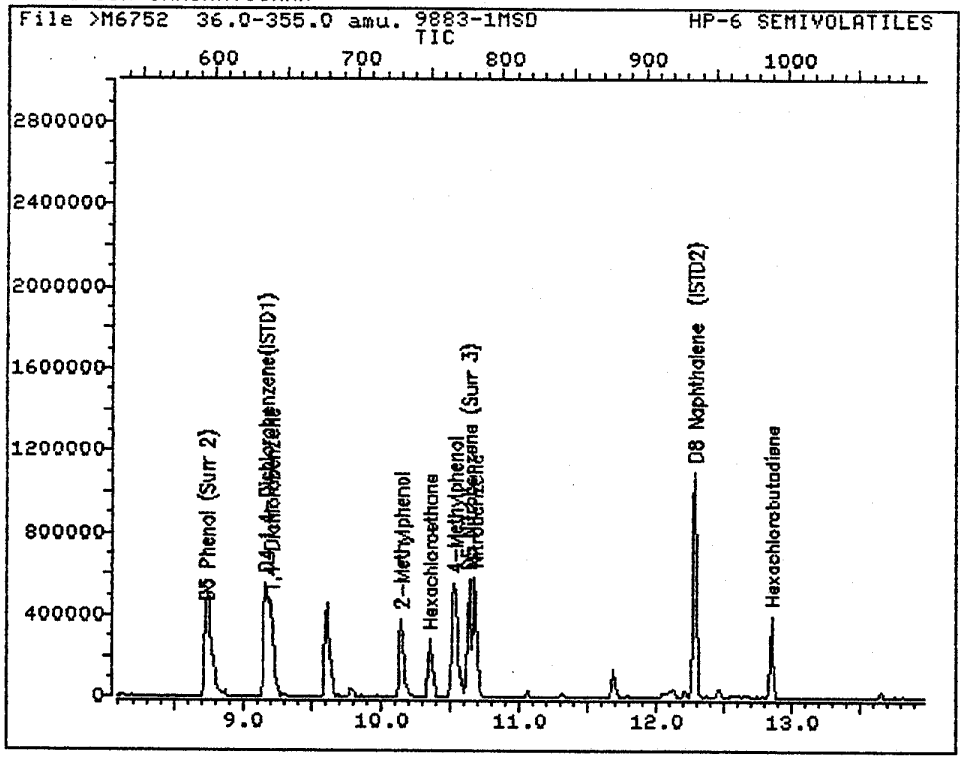
Quant Output File: ^M6752::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:00
Injected at: 940920 20:50

TOTAL ION CHROMATOGRAM



Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES

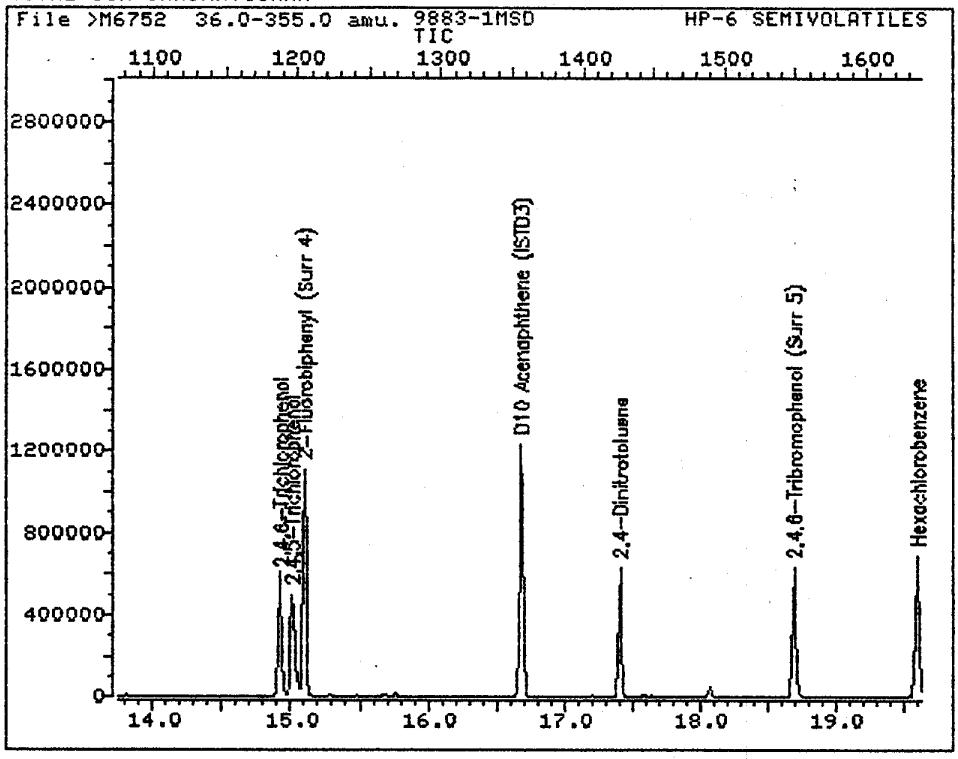
Quant Output File: ^M6752::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:00
Injected at: 940920 20:50

TOTAL ION CHROMATOGRAM



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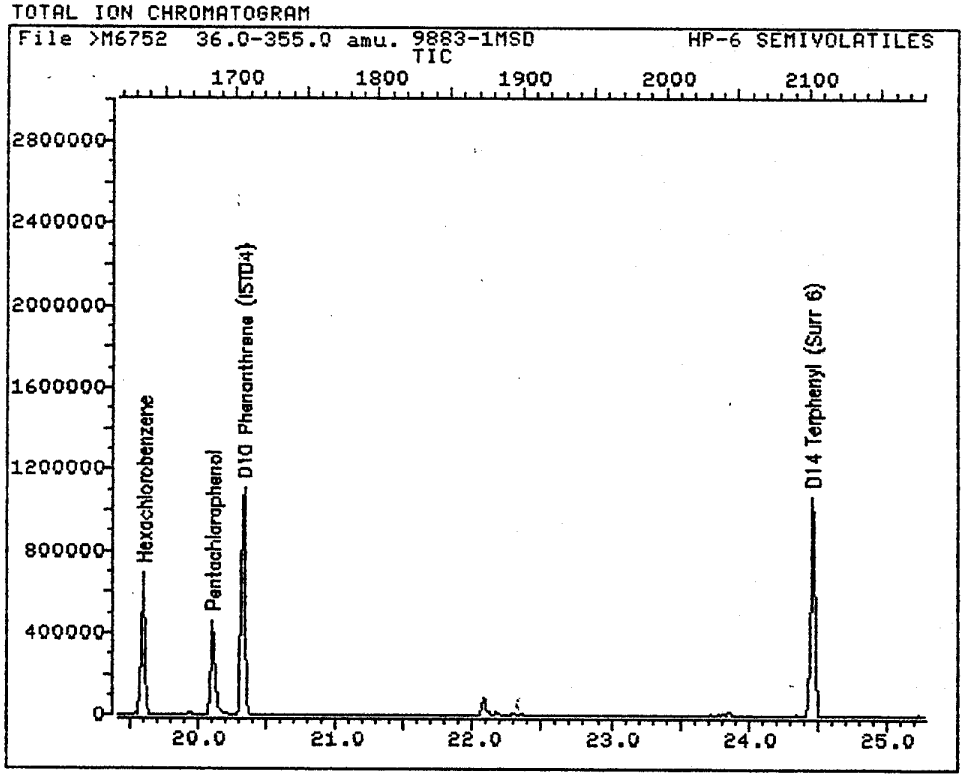
Name: 9883-1MSD Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:00
Injected at: 940920 20:50

TOTAL ION CHROMATOGRAM



Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES

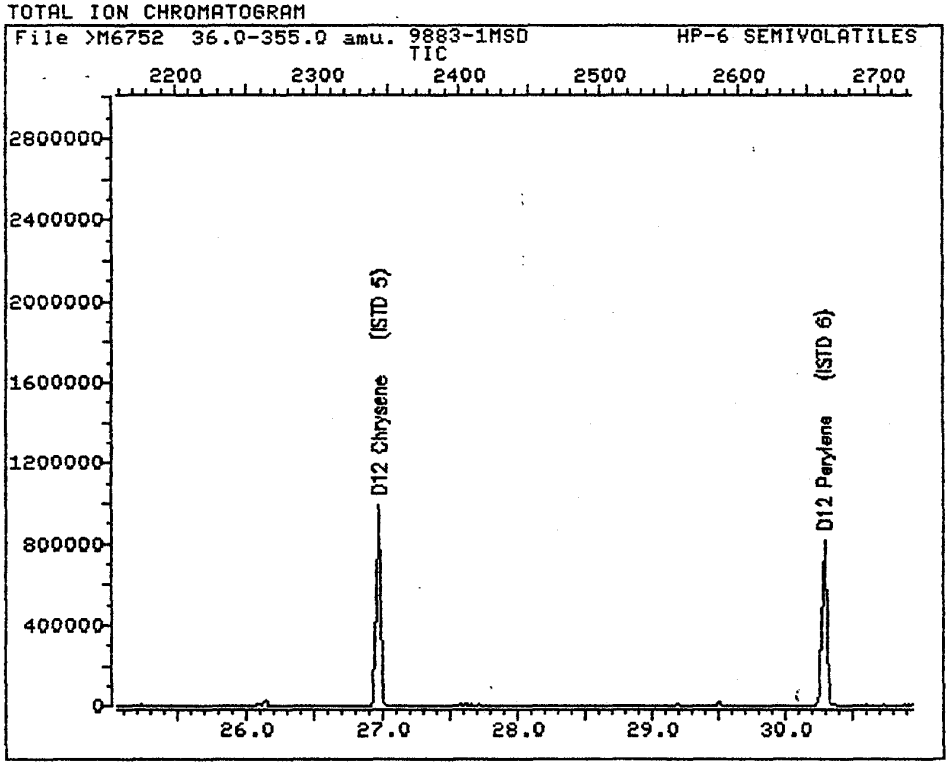
Quant Output File: ^M6752::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:00
Injected at: 940920 20:50

TOTAL ION CHROMATOGRAM

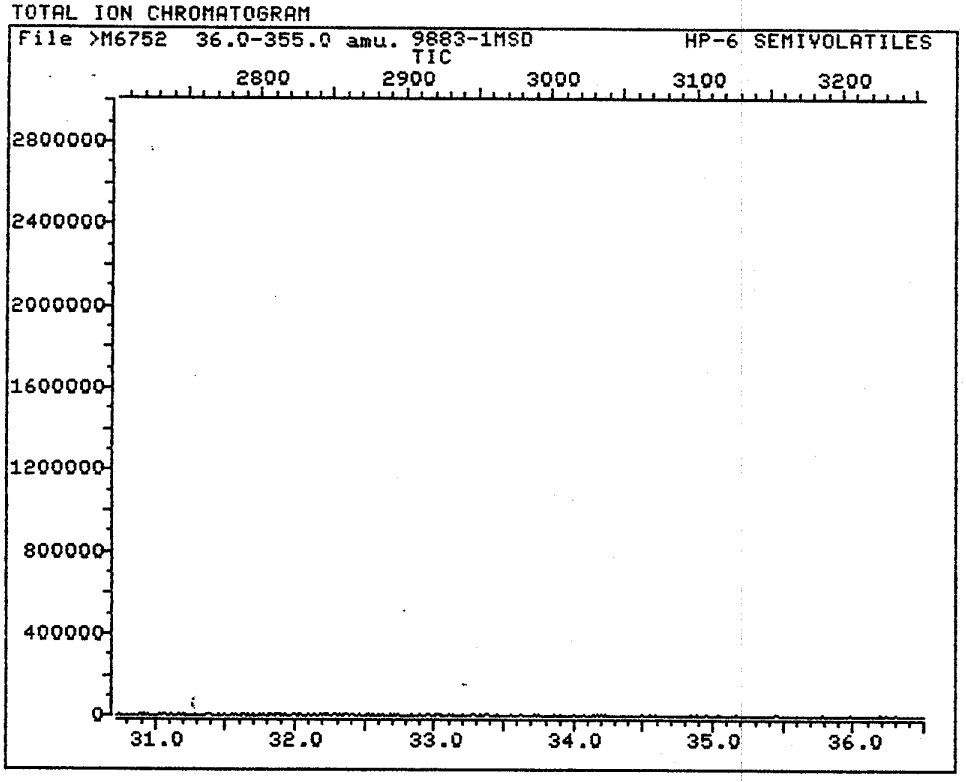


Data File: >M6752::A7 Quant Output File: ^M6752::D1
Name: 9883-1MSD Instrument ID: HP00006
Misc: HP-6 SEMIVOLATILES

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21 Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:00
Injected at: 940920 20:50

TOTAL ION CHROMATOGRAM



Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES

Quant Output File: ^M6752::D1
Instrument ID: HP00006

Id File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21

Last Qcal Time: 940920 17:47

Operator ID: TIM
Quant Time : 940921 12:00
Injected at: 940920 20:50

QUANT REPORT

Operator ID: TIM
Output File: ^M6752::D1
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES

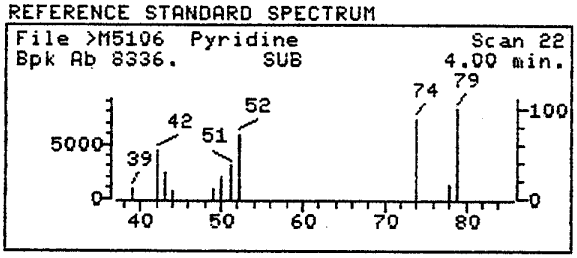
Quant Rev: 7
Quant Time: 940921 12:00
Injected at: 940920 20:50
Dilution Factor: 1.00000
Instrument ID: HP00006

ID File: ITCLP6::SC
Title: TCLP ANALYSIS
Last Calibration: 940921 11:21
Last Qcal Time: 940920 17:47

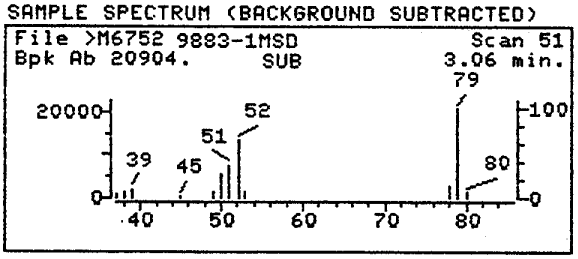
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*D4 1,4-Dichlorobenzene(ISTD1)	9.17	636	234171	40.00	ug/L	97
2)	Pyridine	3.06	51	56406	14.85	ug/L	98
3)	2-Fluorophenol (Surr 1)	6.32	363	211691	26.02	ug/L	70
4)	D5 Phenol (Surr 2)	8.74	595	213356	18.76	ug/L	70
6)	1,4-Dichlorobenzene	9.21	640	211352	23.08	ug/L	92
7)	2-Methylphenol	10.15	730	199530	24.42	ug/L	87
8)	4-Methylphenol	10.53	767	392616	44.73	ug/L	87
10)	Hexachloroethane	10.36	750	100135	20.81	ug/L	62
11)	*D8 Naphthalene (ISTD2)	12.29	935	866178	40.00	ug/L	96
12)	D5 Nitrobenzene (Surr 3)	10.64	777	335212	35.44	ug/L	85
13)	Nitrobenzene	10.68	781	333816	35.67	ug/L	92
16)	Hexachlorobutadiene	12.85	989	68663	21.01	ug/L	93
18)	*D10 Acenaphthene (ISTD3)	16.68	1356	505093	40.00	ug/L	92
20)	2,4,6-Trichlorophenol	14.93	1188	147851	31.29	ug/L	94
21)	2,4,5-Trichlorophenol	15.01	1196	173211	34.61	ug/L	94
22)	2-Fluorobiphenyl (Surr 4)	15.11	1205	565487	37.10	ug/L	98
26)	2,4-Dinitrotoluene	17.41	1426	205133	35.89	ug/L	81
27)	2,4,6-Tribromophenol (Surr 5)	18.70	1549	124802	59.36	ug/L	98
28)	*D10 Phenanthrene (ISTD4)	20.33	1706	750504	40.00	ug/L	67
30)	Hexachlorobenzene	19.60	1636	180413	40.35	ug/L	75
31)	Pentachlorophenol	20.10	1684	131100	42.69	ug/L	94
33)	*D12 Chrysene (ISTD 5)	26.98	2343	674930	40.00	ug/L	87
34)	D14 Terphenyl (Surr 6)	24.47	2102	678887	50.27	ug/L	71
35)	*D12 Perylene (ISTD 6)	30.30	2661	537669	40.00	ug/L	96

* Compound is ISTD

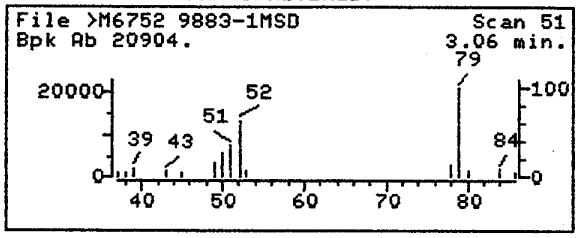
REFERENCE STANDARD SPECTRUM

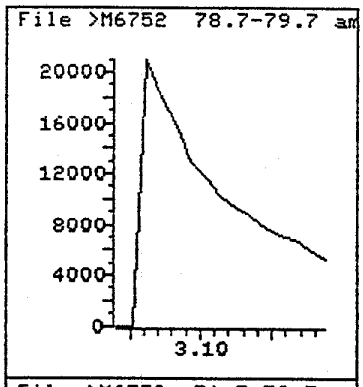


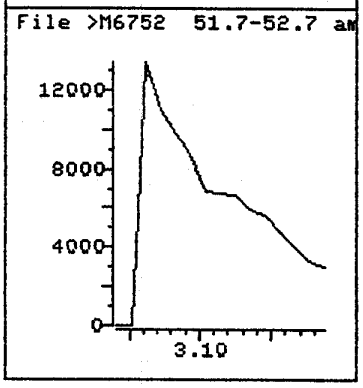
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







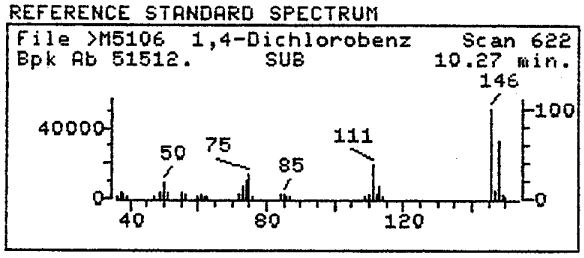
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

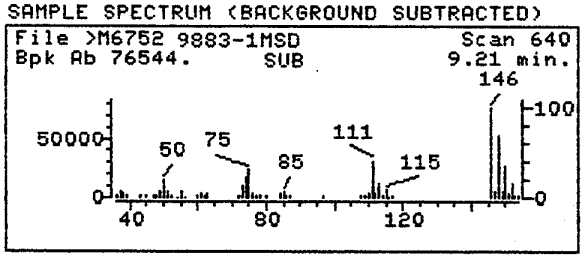
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 2
Compound Name : Pyridine
Scan Number : 51
Retention Time: 3.06 min.
Quant Ion : 52.0
Area : 56406
Concentration : 14.85 ug/L
q-value : 98

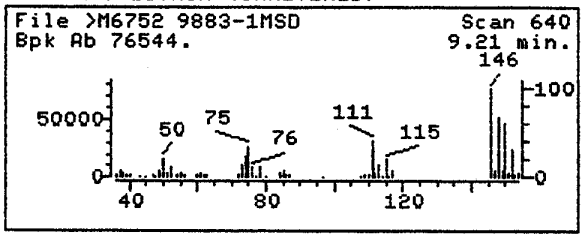
REFERENCE STANDARD SPECTRUM

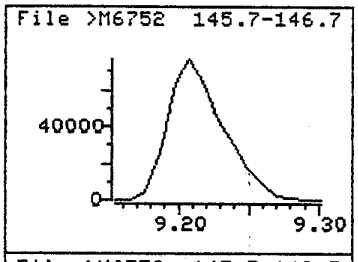


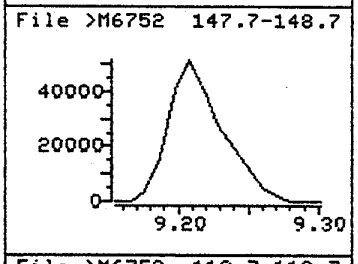
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

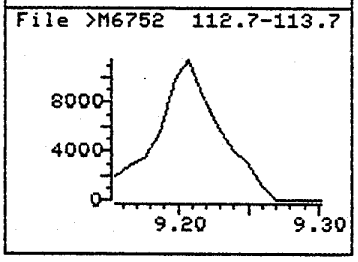


SAMPLE SPECTRUM (UNALTERED)









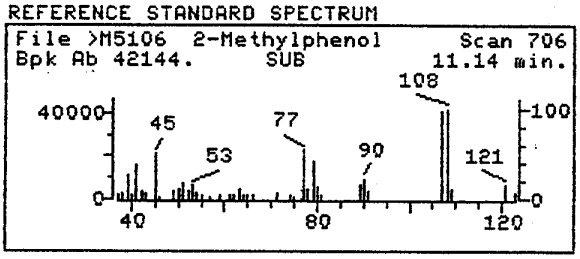
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

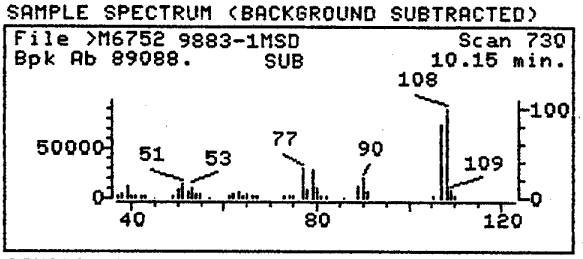
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 6
Compound Name : 1,4-Dichlorobenzene
Scan Number : 640
Retention Time: 9.21 min.
Quant Ion : 146.0
Area : 211352
Concentration : 23.08 ug/L
q-value : 92

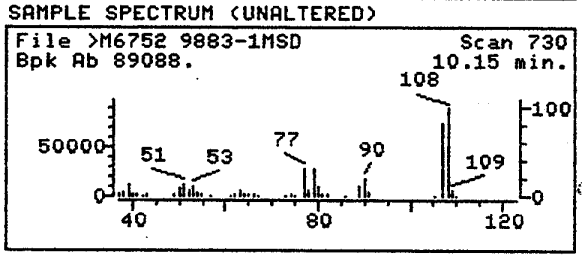
REFERENCE STANDARD SPECTRUM

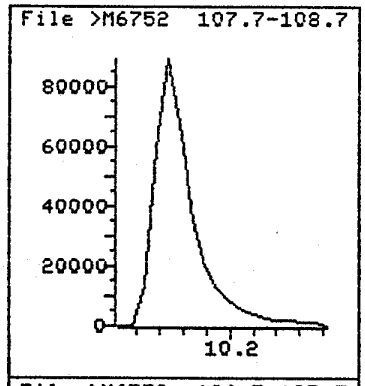


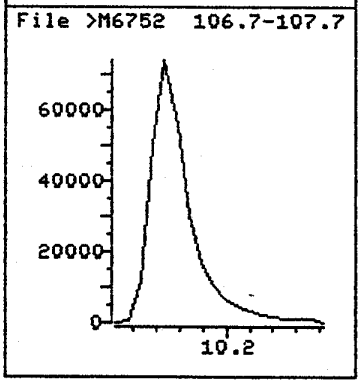
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







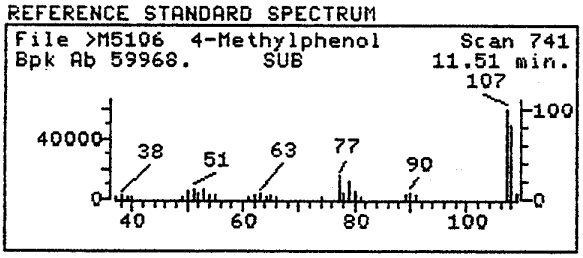
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

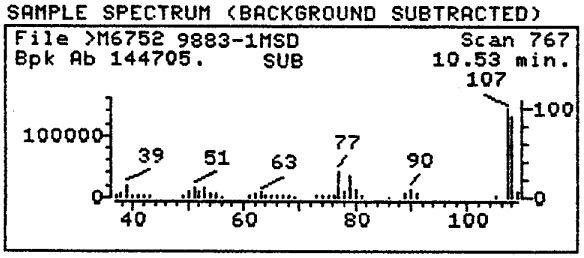
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 7
Compound Name : 2-Methylphenol
Scan Number : 730
Retention Time: 10.15 min.
Quant Ion : 108.0
Area : 199530
Concentration : 24.42 ug/L
q-value : 87

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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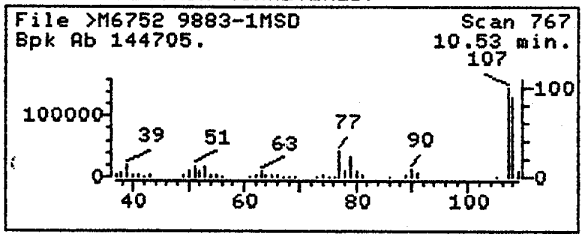
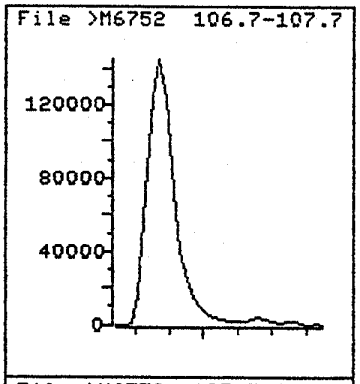
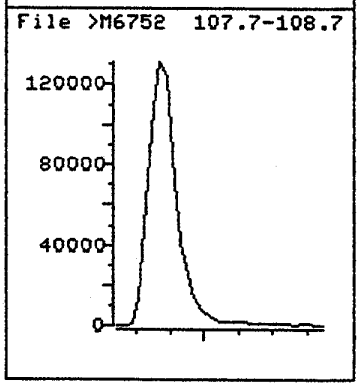






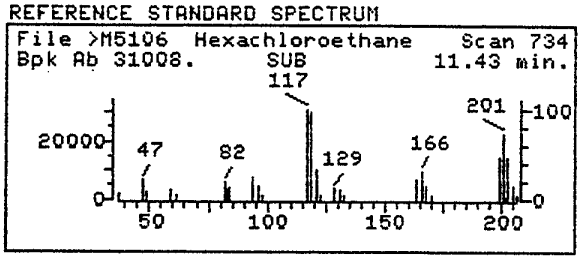
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

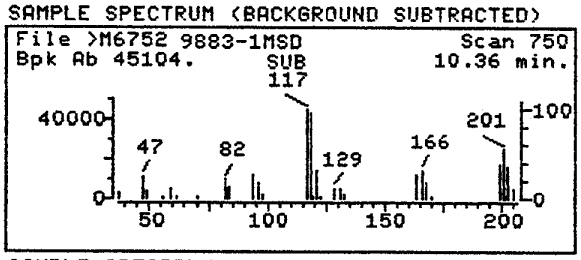
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 8
Compound Name : 4-Methylphenol
Scan Number : 767
Retention Time: 10.53 min.
Quant Ion : 108.0
Area : 392616
Concentration : 44.73 ug/L
q-value : 87

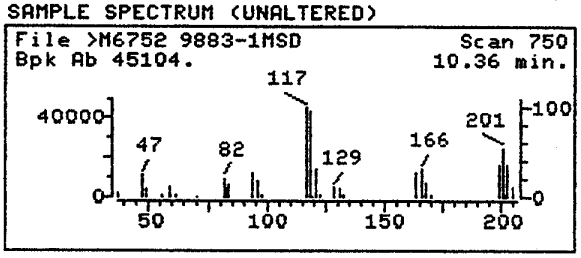
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



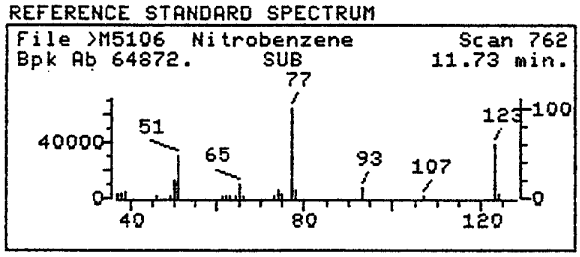
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

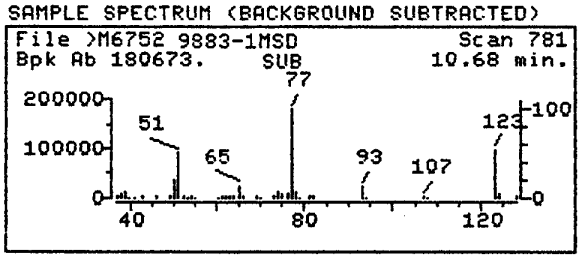
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 10
Compound Name : Hexachloroethane
Scan Number : 750
Retention Time: 10.36 min.
Quant Ion : 117.0
Area : 100135
Concentration : 20.81 ug/L
q-value : 62

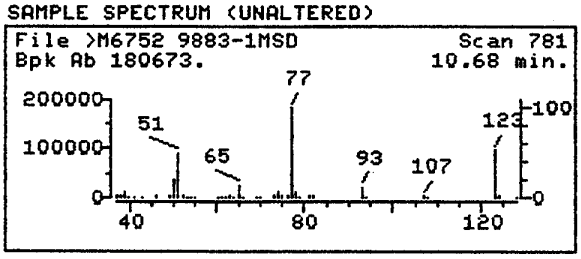
REFERENCE STANDARD SPECTRUM

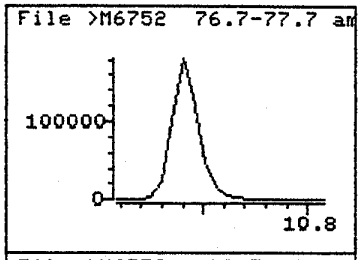


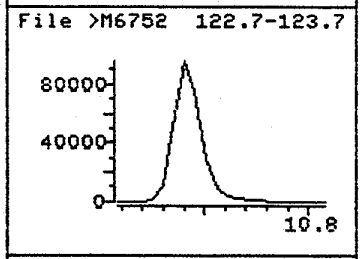
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

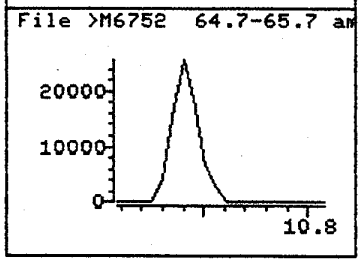


SAMPLE SPECTRUM (UNALTERED)









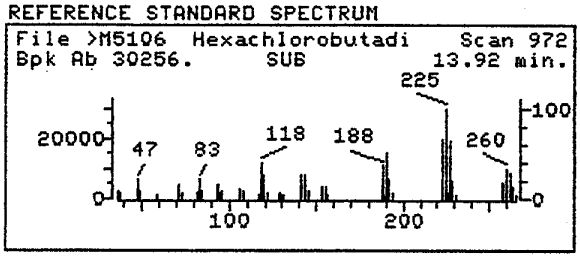
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

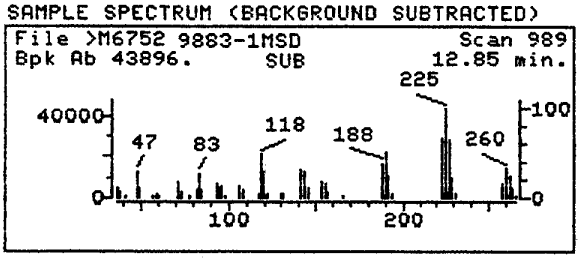
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 13
Compound Name : Nitrobenzene
Scan Number : 781
Retention Time: 10.68 min.
Quant Ion : 77.0
Area : 333816
Concentration : 35.67 ug/L
q-value : 92

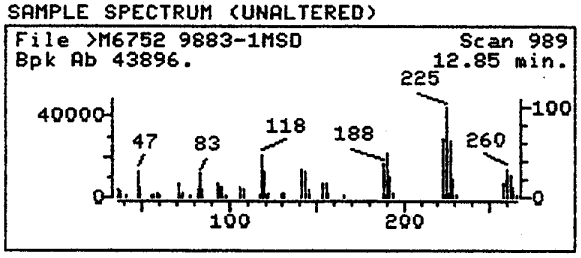
REFERENCE STANDARD SPECTRUM

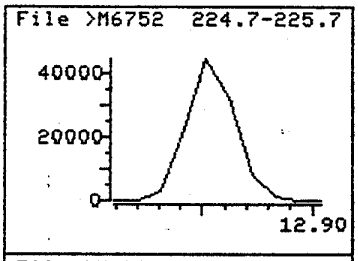


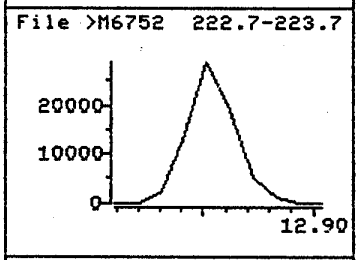
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

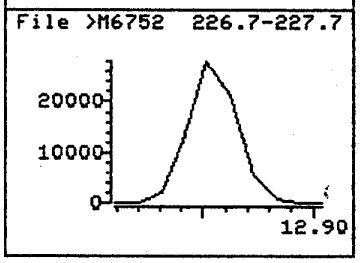


SAMPLE SPECTRUM (UNALTERED)









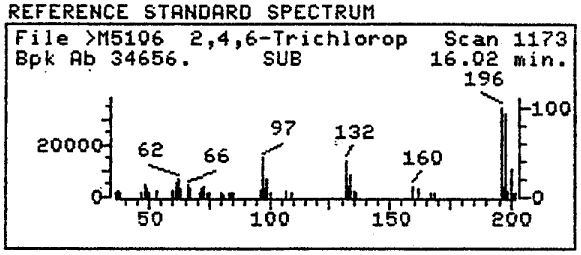
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

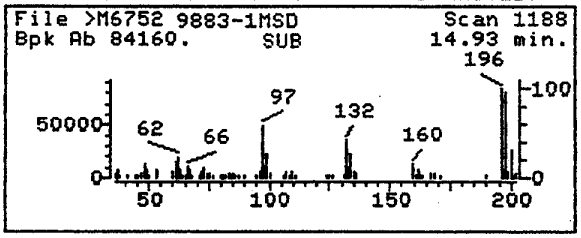
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 16
Compound Name : Hexachlorobutadiene
Scan Number : 989
Retention Time: 12.85 min.
Quant Ion : 225.0
Area : 68663
Concentration : 21.01 ug/L
q-value : 93

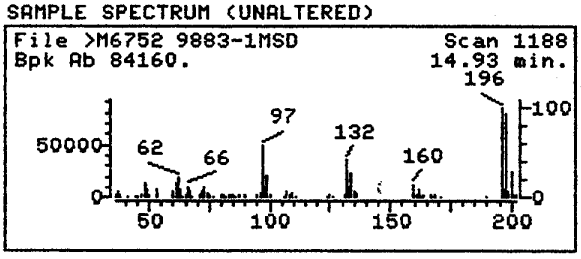
REFERENCE STANDARD SPECTRUM

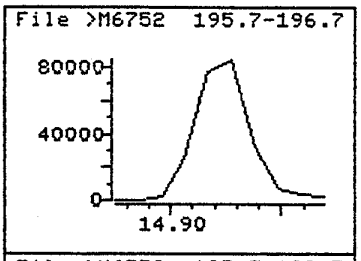


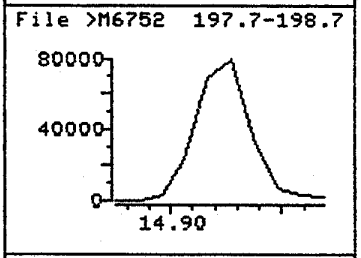
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

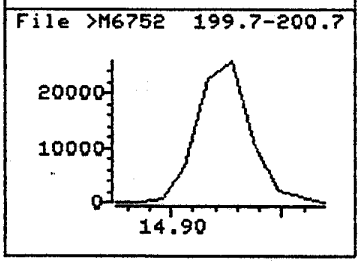


SAMPLE SPECTRUM (UNALTERED)









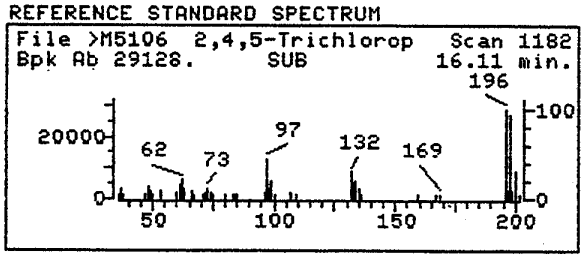
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

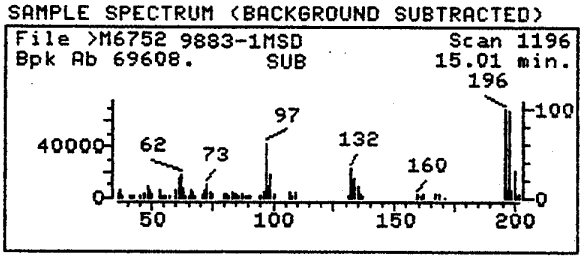
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 20
Compound Name : 2,4,6-Trichlorophenol
Scan Number : 1188
Retention Time: 14.93 min.
Quant Ion : 196.0
Area : 147851
Concentration : 31.29 ug/L
q-value : 94

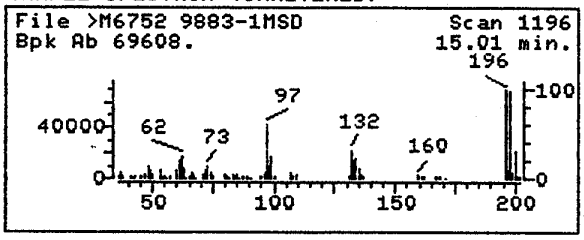
REFERENCE STANDARD SPECTRUM

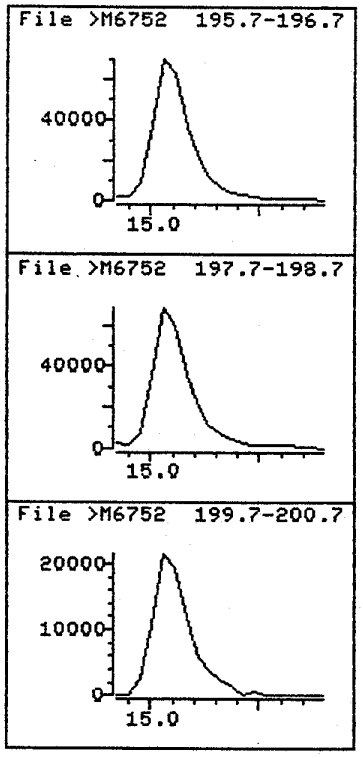


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





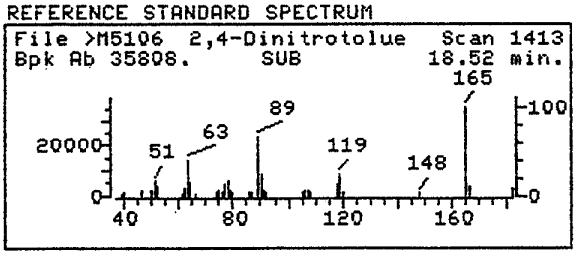
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

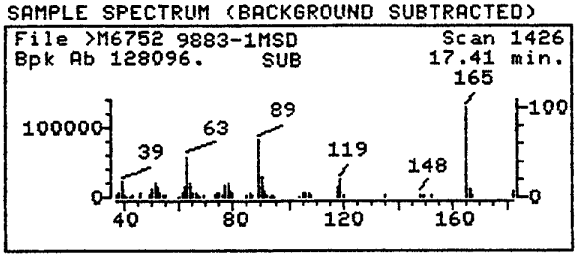
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 21
Compound Name : 2,4,5-Trichlorophenol
Scan Number : 1196
Retention Time: 15.01 min.
Quant Ion : 196.0
Area : 173211
Concentration : 34.61 ug/L
q-value : 94

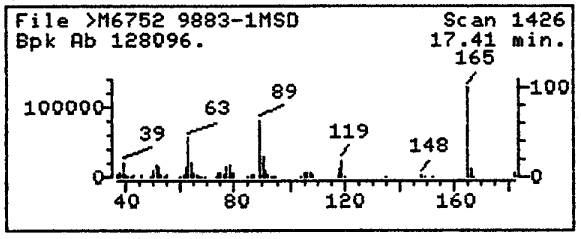
REFERENCE STANDARD SPECTRUM

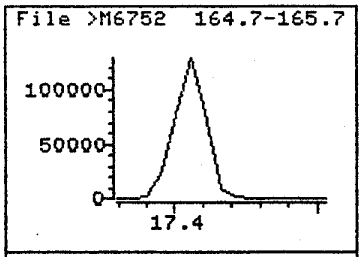


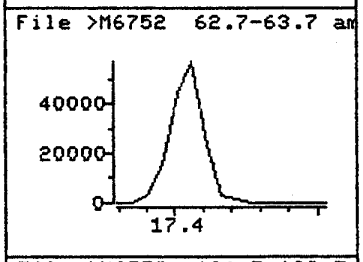
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

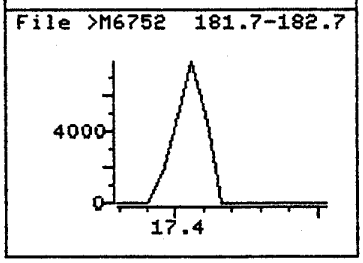


SAMPLE SPECTRUM (UNALTERED)









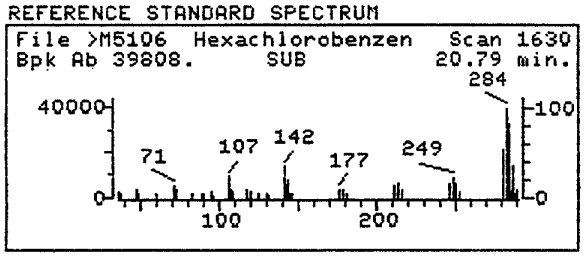
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

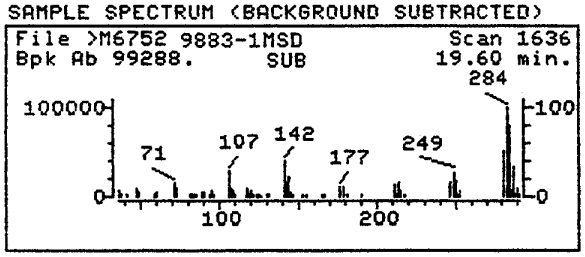
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 26
Compound Name : 2,4-Dinitrotoluene
Scan Number : 1426
Retention Time: 17.41 min.
Quant Ion : 165.0
Area : 205133
Concentration : 35.89 ug/L
q-value : 81

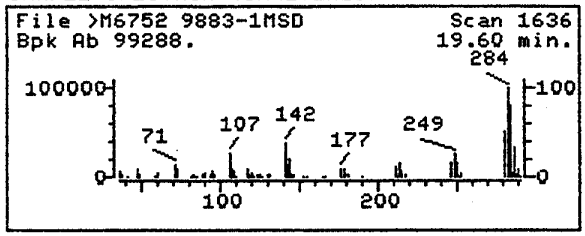
REFERENCE STANDARD SPECTRUM

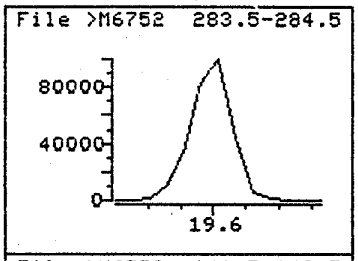


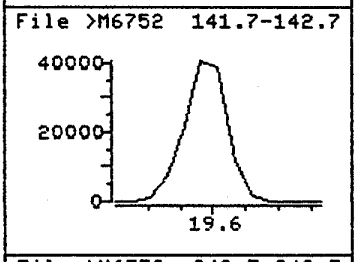
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

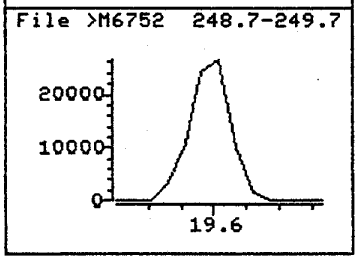


SAMPLE SPECTRUM (UNALTERED)









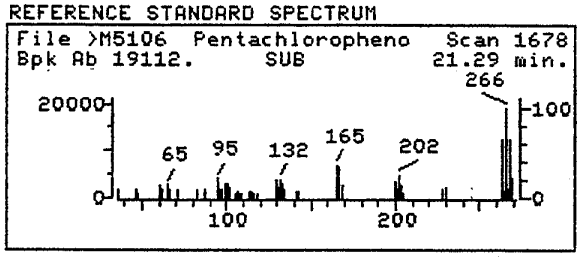
Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

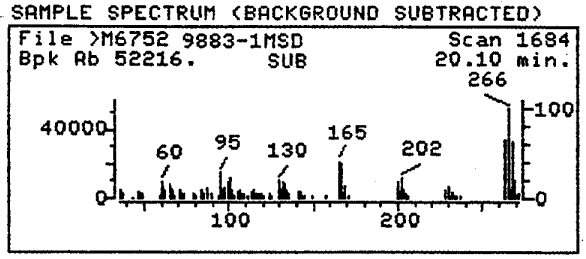
Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 30
Compound Name : Hexachlorobenzene
Scan Number : 1636
Retention Time: 19.60 min.
Quant Ion : 283.8
Area : 180413
Concentration : 40.35 ug/L
q-value : 75

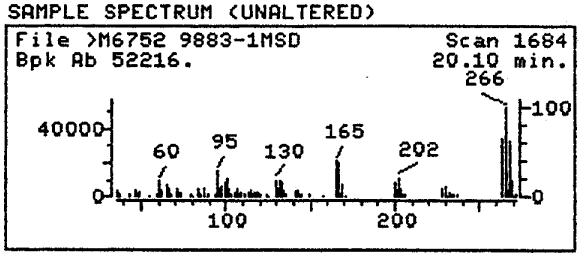
REFERENCE STANDARD SPECTRUM

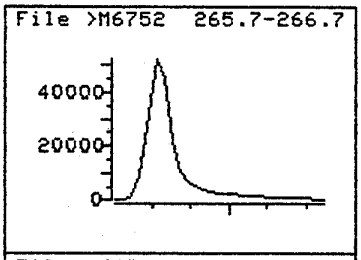


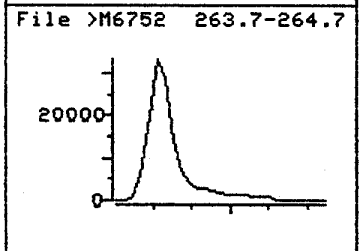
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

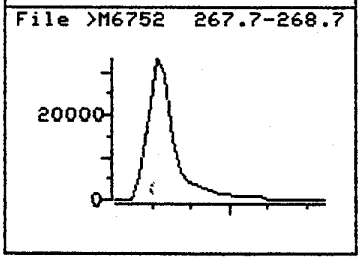


SAMPLE SPECTRUM (UNALTERED)









Data File: >M6752::A7
Name: 9883-1MSD
Misc: HP-6 SEMIVOLATILES
Quant Time: 940921 12:00
Injected at: 940920 20:50
Last Qcal Time: 940920 17:47

Quant Output File: ^M6752::D1
Instrument ID: HP00006

Quant ID File: ITCLP6::SC
Last Calibration: 940921 11:21

Compound No : 31
Compound Name : Pentachlorophenol
Scan Number : 1684
Retention Time: 20.10 min.
Quant Ion : 266.0
Area : 131100
Concentration : 42.69 ug/L
q-value : 94