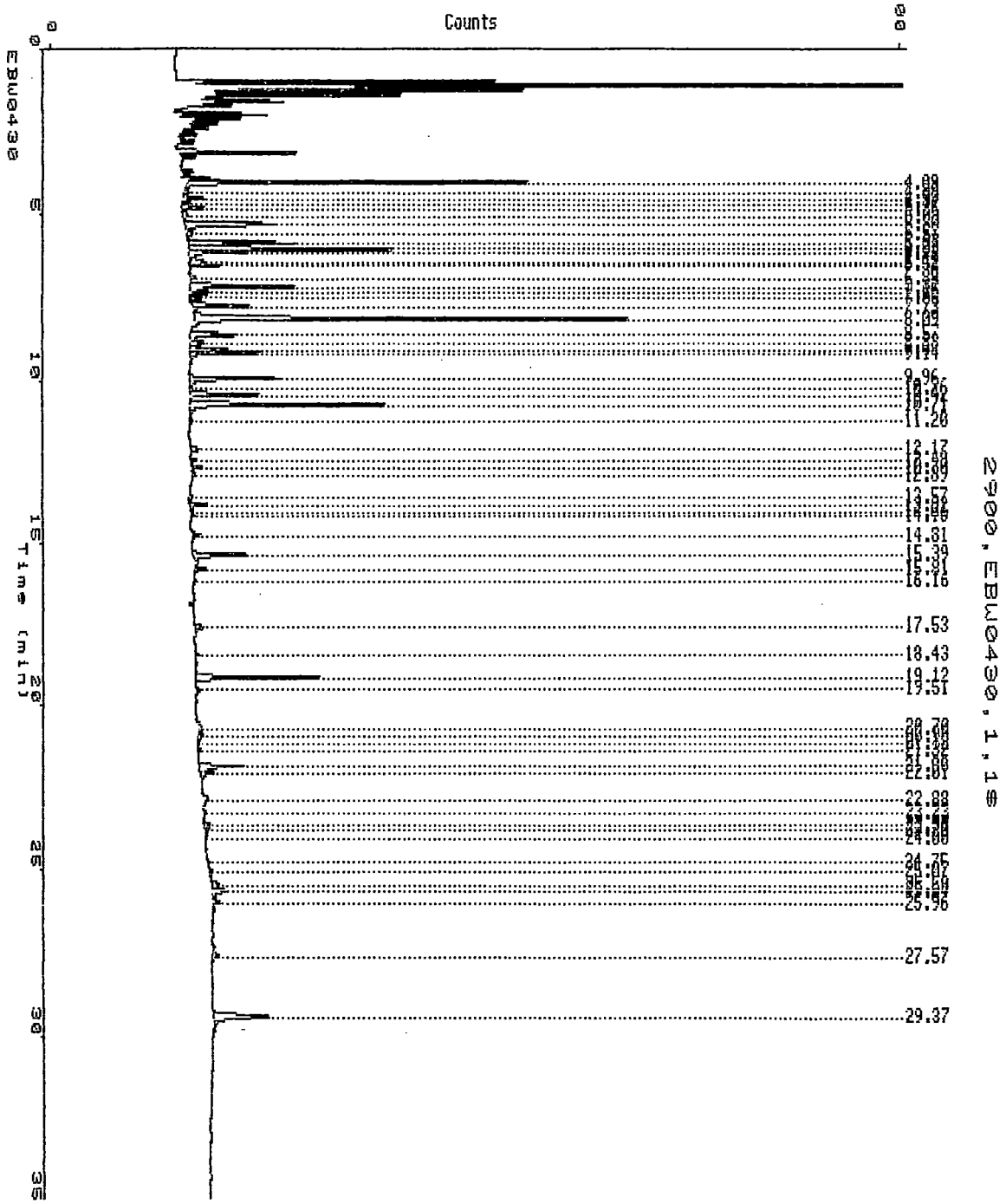
Data file: NAI$DIR:[DATA.GC2]E0501-2DB608027.RAW;1
Report: 51156
Acquired: 2-MAY-1992 08:30:50
Time range: 0.00-35.00

US EPA RECORDS CENTER REGION 5
557138



Date..... 4-MAY-1992 07:21:04.17
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608027.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 08:30:50
Sample name.....EBW0430
Notes.....2900,EBW0430,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

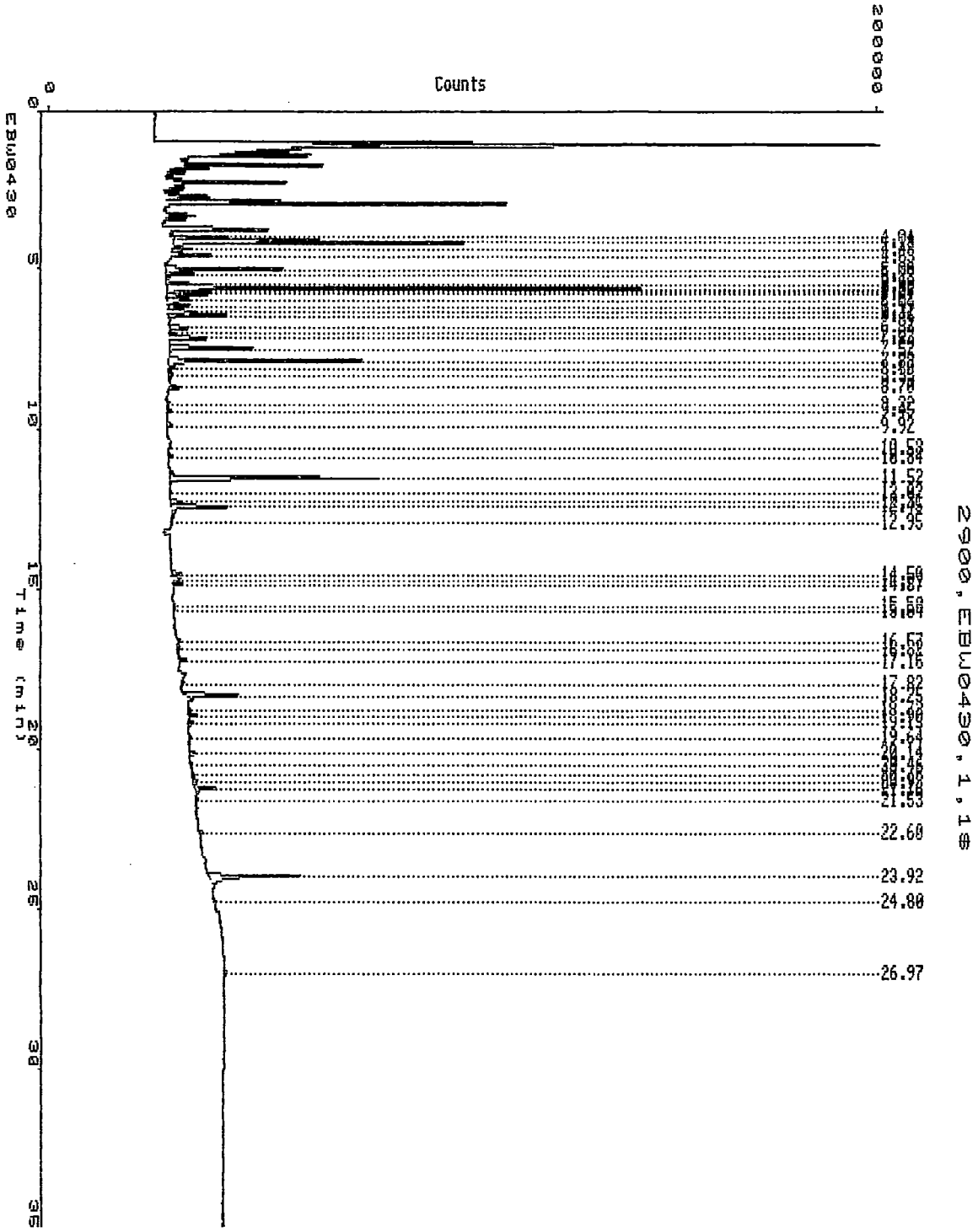
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.087			299740		BB	
	4.394			4669		BV	
	4.591			22634		VV	
	4.711			6613		VV	
	4.853			27046		VB	
	5.088			11987		BB	
	5.302			141550		BE	
	5.570			8133		EB	
	5.870			119759		BV	
	6.030			205211		VV	
	6.127			77552		VE	
	6.422			20943		EV	
	6.520			34985		VB	
	6.889			7092		BB	
TETRACL-M-XYLENE	7.173	-0.78	14.95	130539		BE	
	7.348			16596		EV	
	7.496			13916		EB	
	7.733			56666		BB	
	8.092			496897		BB	
	8.565			56526		BV	
	8.833			18840		VV	
	9.023			48496		VV	
	9.143			86499		VB	
	9.958			116167		BE	
	10.263			5171		EV	
	10.425			81665		VV	
	10.707			243329		VB	
G-BHC (not confirm)	11.204	0.36	0.3989	3343		BB	
	12.172			12043		BB	
	12.493			7943		BB	
	12.699			11333		BV	
D-BHC (not confirm)	12.893	-0.76	0.6515	4250		VB	
ALDRIN (not confirm.)	13.566	2.05	0.4807	3671		BB	
	13.818			21259		BE	
	14.015			2225		EV	
	14.179			3870		EB	
	14.807			12436		BB	
	15.387			67907		BB	
	15.811			13243		BB	

	16.162			3128	BB
	17.527			9936	BB
	18.426			4674	BB
	19.117			148808	BB
ENDRIN ✓ (BOV)	19.510	-0.61	1.131	5329	BB
	20.700			3938	BB
	20.897			5015	BB
DDT (not found)	21.123	-0.15	0.3259	1203	BB
	21.321			2563	BB
ENDO.SULFATE ✓ (BOV)	21.802	2.25	14.39	75520	BV
	22.008			28366	VB
	22.883			1838	BB
	23.227			2656	BB
	23.583			7455	BV
	23.701			4690	VB
	24.000			1311	BB
	24.748			3666	BB
	25.067			3099	BB
	25.503			14499	BV
	25.642			24716	VV
	25.962			11356	VB
	27.573			9713	BB
DECACHLOROBIPHEN	29.370	-1.18	18.85	132609	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701028.RAW;1
Report: 51154
Acquired: 2-MAY-1992 09:11:14
Time range: 0.00-35.00



Date..... 4-MAY-1992 07:19:48.12
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701028.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 09:11:14
Sample name.....EBW0430
Notes.....2900,EBW0430,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.045			37270		BV	
	4.188			333197		VE	
	4.432			31265		EV	
	4.628			39908		VB	
TETRACL-M-XYLENE	5.076	-0.36	15.48	117998		BE	
	5.216			26098		EV	
	5.484			22741		VV	
	5.618			467148		VE	
	5.742			15094		EV	
	5.806			48998		EV	
	6.013			52826		VV	
	6.187			25851		VV	
	6.371			27885		VV	
	6.457			69110		VV	
	6.871			26457		VV	
	7.086			6014		VV	
	7.232			49244		VB	
	7.516			81722		BB	
	7.888			201574		BE	
	8.103			11599		EV	
	8.345			6638		EB	
	8.703			9583		BB	
	9.219			1547		BB	
	9.446			4036		BB	
	9.918			7531		BB	
	10.584			1475		BB	
	10.841			5685		BB	
	11.521			230919		BB	
	12.025			1734		BB	
	12.313			14506		BV	
	12.452			72735		VB	
	12.947			2272		BB	
DDE (not work)	14.502	-0.10	3.057	12947		BV	
	14.713			11825		VV	
	14.872			12545		VB	
ENDRIN ✓ (600)	15.499	-2.32	0.4433	2345		BV	
	15.635			3058		VB	
	16.571			3087		BB	
	16.819			3385		BB	

ENDOSULFAN II (not cont)	17.160	-1.19	1.193	7494	BB
	17.822			2307	BB
	18.251			64026	BB
	18.722			3521	BV
	18.902			12035	VV
	19.132			8003	VB
ENDO.SULFATE ✓(cont)	19.636	1.41	0.2390	1360	BB
	20.141			9692	BB
	20.456			1826	BB
ENDRIN KETONE (not cont)	20.760	3.61	0.4594	2654	BB
	20.929			5698	BB
	21.157			24900	BB
	21.527			3213	BB
	22.598			5206	BB
DECACHLOROBIPHEN	23.918	-0.49	16.95	151084	BB
	24.803			3892	BB
	26.967			2851	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

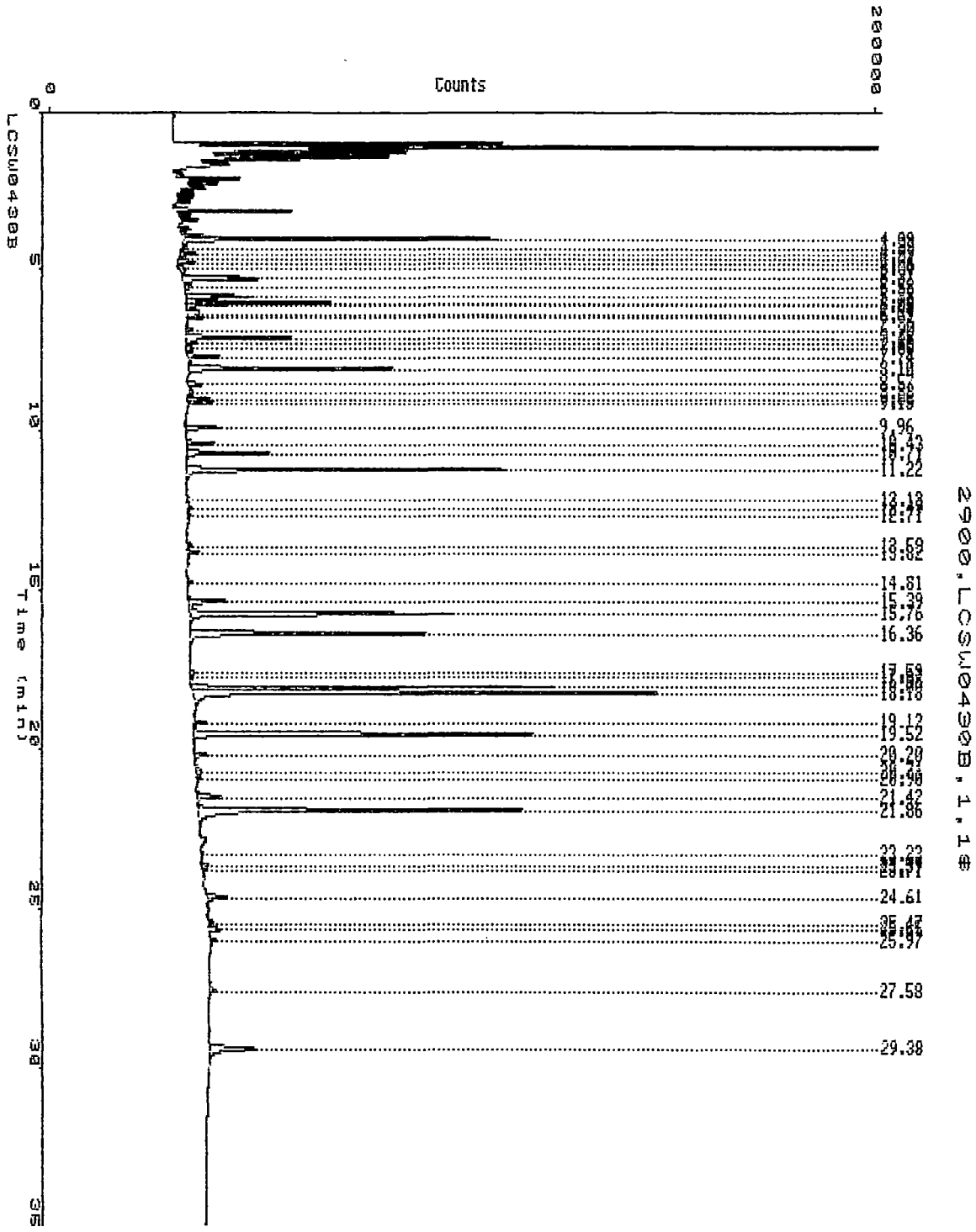
EPA SAMPLE NO.

LCSW0430B

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: LCSW0430B
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608029
%Moisture: 0.00 decanted: (Y/N) N Date Received:
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.089	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.088	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.206	
72-55-9	4,4'-DDE	0.173	
72-20-8	Endrin	0.187	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.189	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.085	
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608029.RAW;1
Report: 51160
Acquired: 2-MAY-1992 09:51:24
Time range: 0.00-35.00



Date..... 4-MAY-1992 07:24:00.94
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608029.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 09:51:24
Sample name.....LCSW0430B
Notes.....2900,LCSW0430B,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

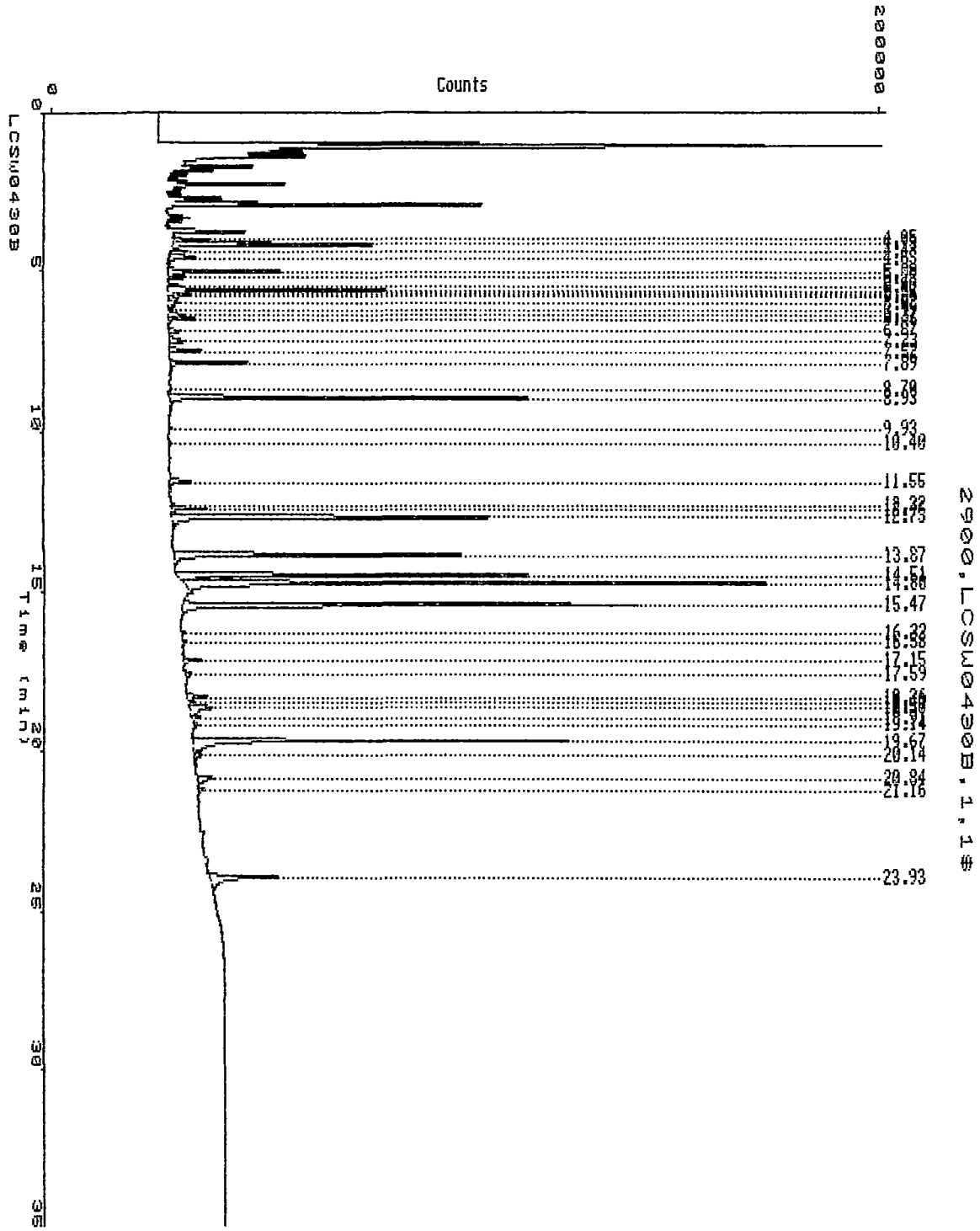
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.091			280357			BE	
	4.391			8008			EV	
	4.595			18917			EV	
	4.712			6091			VV	
	4.858			22950			VB	
	5.038			6418			BB	
	5.307			116057			BE	
	5.580			11154			EB	
	5.875			76276			BV	
	6.036			147306			VV	
	6.131			48028			VV	
	6.388			27828			VV	
	6.524			19206			VB	
	6.898			10778			BV	
TETRACL-M-XYLENE	7.177	-0.99	14.35	125275			VE	
	7.353			11443			EV	
	7.504			8750			EB	
	7.739			32056			BB	
	8.098			233528			BB	
	8.570			13883			BB	
	8.832			4137			BB	
	9.029			28044			BV	
	9.148			29507			VB	
	9.964			47215			BB	
	10.431			30859			BB	
	10.713			98731			BB	
G-BHC (spike)	11.223	-0.77	44.54	373209			BB	
	12.176			1724			BB	
	12.485			3799			BB	
	12.707			3160			BB	
ALDRIN ✓ (Bor)	13.585	0.89	1.111	8487			BV	
	13.816			15183			VB	
	14.811			6856			BB	
	15.392			58087			BV	
HEPT.EPOX (spike)	15.760	-1.21	43.88	362853			VB	
G-CHLORDANE (spike)	16.360	-1.18	42.70	327351			BB	
	17.532			6767			BV	
	17.665			5705			VB	
DDE (spike)	18.005	-1.47	86.67	460468			BV	

DIELDRIN (spike)	18.183	-0.78	110.0	662100	VB
	19.124			13351	BB
ENDRIN (spike)	19.517	-1.02	93.55	440879	BB
ENDOSULFAN II ✓(180c)	20.200	-1.21	3.272	19067	BB
	20.709			16983	BV
	20.903			9731	VB
ENDRIN ALDEHYDE ✓(180)	21.423	-1.40	9.893	39406	BV
ENDO.SULFATE (spike)	21.862	-1.34	94.34	495200	VB
	23.231			2889	BB
	23.588			8841	BV
	23.706			5535	VB
ENDRIN KETONE ✓(180c)	24.608	-1.66	4.722	25582	BB
	25.466			11185	BV
	25.649			16539	VB
	25.971			8166	BB
	27.582			9957	BB
DECACHLOROBIPHEN	29.379	-1.71	15.93	112119	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701030.RAW;1
Report: 51159
Acquired: 2-MAY-1992 10:31:46
Time range: 0.00-35.00



.NR1
.DFNAI$DIR:[DATA.GC2]F0501-2DB1701030
.KE
Date..... 4-MAY-1992 07:22:34.44
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701030.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 10:31:46
Sample name.....LCSW0430B
Notes.....2900,LCSW0430B,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.045			22309			BV	
	4.191			228556			VE	
	4.427			23233			EV	
	4.630			51224			EB	
TETRACL-M-XYLENE	5.079	-0.54	14.48	110347			BE	
	5.217			14004			EB	
	5.488			7921			BV	
	5.621			209507			VE	
	5.747			10172			EV	
	5.808			22138			EV	
	6.019			21172			VV	
	6.190			5644			VV	
	6.374			16543			VV	
	6.461			31232			VB	
	6.874			13085			BV	
	7.229			24203			VB	
	7.519			29747			BB	
	7.891			76703			BB	
	8.704			2299			BB	
G-BHC (spike)	8.931	-0.63	46.29	335659			BB	
	9.925			3368			BB	
ALDRIN ✓(BOL)	10.399	-0.57	0.3934	3075			BB	
	11.547			29728			BB	
	12.319			4094			BV	
	12.457			45313			VV	
HEPT.EPOX (spike)	12.734	-0.82	45.37	394061			VB	
G-CHLORDANE (spike)	13.873	-0.77	46.50	362666			BB	
DDE (spike)	14.506	-0.35	99.51	421460			BV	
DIELDRIN (spike)	14.800	-0.61	103.1	727366			VB	
ENDRIN (spike)	15.468	-0.47	102.7	543265			BB	
	16.324			4642			BB	
	16.576			3254			BB	
ENDOSULFAN II ✓(BOL)	17.154	-0.82	4.074	25598			BB	
	17.586			11719			BB	
	18.259			25290			BV	
	18.403			6431			VV	

ENDRIN ALDEHYDE (BDL)	18.583	-1.35	11.48	52788	VV
	18.915			14399	VV
	19.139			5469	VB
ENDO.SULFATE (4ppb)	19.668	-0.46	94.60	538206	BE
	20.141			19736	EB
ENDRIN KETONE (BDL)	20.837	-1.03	5.887	34007	BV
	21.161			8273	VB
DECACHLOROBIPHEN	23.925	-0.93	14.61	130252	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

7-1

MAXWELL
S-CUBED Division

Water Extraction Log

Client: REGION 5 Case/Project Name: 19026/SAS 6702 HQ

Charge No.: 32380-02 Extraction Set/Lot(s) No.: 2900, 06

Type of Analysis: (BNA) Pest Other: AN LDL Method Code: SUDA DLC

Technician Signature: [illegible] Reviewed by: MM

Sample ID	Initial Volume	Sample pH	STDs Added (Ref. Key)	Extract Vol.	pH Adj./Check Base	Acid	Comments CLIENT SAMPLE ID	Extr. No.
EBW 0504	1.0 L	—	1	1.0 ml	—	AF		
LCSW 0504 A		—	1,2					
LCSW 0504 B		—	1,2					
LCSW 0504 C		—	1,2					
2900-02	1.0 ml	—	1				PM333	9
2906 ~~2900~~ -01	1.0 L	7.18	1				ERK 20	
-02		7.26	1				ERK 21	
-03		7.20	1				ERK 22	
-04		7.22	1				ERK 23	
-05		7.61	1				ERK 24	
-06		9.25	1	✓	—	✓	ERK 25	

Standard Key: 1. Standard ID: 3453 Standard Conc.: 240/80 ug/ml Amt Added: 0.5 ml
2. Standard ID: 3651 Standard Conc.: 40/80 ug/ml Amt Added: 0.5 ml
3. Standard ID: _____ Standard Conc.: _____ Amt Added: _____
4. Standard ID: _____ Standard Conc.: _____ Amt Added: _____

Extraction: Method: L/L Initials: AF Ref: 72 (Notebook/Log/Etc.)
Start: 5-4-92 3:00 p.m. Stop: 5-5-92 Start: _____ Stop: _____ (Date & Time)

pH: Method: review Init.: AF Date: 4/30/92 Ref.: 72 (Notebook/Log/Etc.)

Clean-up 1: Method: _____ Init.: _____ Date: _____ Ref.: _____ (Notebook/Log/Etc.)

Clean-up Aliqout: _____ Clean-up Volume: _____

Other: Method: _____ Init.: _____ Date: _____ Ref.: _____ (Notebook/Log/Etc.)

Samples Released by: AF Date Released: 5-5-92 Received by: _____

Solvent Lot No.: _____ Final Volume: _____

Additional Comments: _____

FINAL REVIEW
SAMPLE COUNT
Extracts ✓ ITL ✓ Ext. Log ✓
IQC _____ Alumina Check _____
IQC Std _____ Alumina Std ✓
MS/MSD _____ LCS ✓ Blanks ✓
Information Complete ITL? ✓
Ext. Log? ✓

COPY

SP-02, Rev. 8/91

7-2

MAXWELL
S-CUBED Division

Water Extraction Log

Client: Region 5 Case/Project Name: 19026 | SAS 6702 HQ

Charge No.: 32380-02 Extraction Set/Lot(s) No.: 2900, 2906

Type of Analysis: BNA (Pest) Other: LDL Method Code: OCPOLC

Technician Signature: Afordeliza Reviewed by: MM

Sample ID	Initial Volume	Sample pH	STDs Added (Ref. Key)	Extract Vol.	pH Adj./Check Base	Acid	Comments Client Sample ID	Extr. No.
* EBW0430	1.0 l	—	1	1.0 ml				
* LCSW0430A	↓	—	1,2	↓				
* LCSW0430B	↓	—	1,2	↓				
2900-03	1.0 ml	—	1	↓			PR886	
2906-01	1.0 l	7.18	1	↓			EQK 20	
-02	↓	7.26	1	↓			EQK 21	
-03	↓	7.20	1	↓			EQK 22	
-04	↓	7.22	1	↓			EQK 23	
-05	↓	7.61	1	↓			EQK 24	
-06	↓	9.25	1	↓			EQK 25 ph adjusted to 7.00	

Standard Key: 1. Standard ID: 3560 Standard Conc.: 80 ppb Amt Added: 0.5 ml.
2. Standard ID: 3548 Standard Conc.: 0.2/0.4 ug/ml Amt Added: 0.5 ml
3. Standard ID: ____ Standard Conc.: ____ Amt Added: ____
4. Standard ID: ____ Standard Conc.: ____ Amt Added: ____

Extraction: Method: LIL Initials: AF Ref: 72 (Notebook/Log/Etc.)
Start: 10:35 AM 4-30-92 Stop: 5-1-92 Start: ____ Stop: ____ (Date & Time)

pH: Method: meter Init.: AF Date: 4-30-92 Ref.: 72 (Notebook/Log/Etc.)

Clean-up 1: Method: florisil Init.: AF Date: 5-1-92 Ref.: Cartridge (Notebook/Log/Etc.)
Clean-up Aliqout: 10 ml Clean-up Volume: 2 ml

Other: Method: ____ Init.: ____ Date: ____ Ref.: ____ (Notebook/Log/Etc.)

Samples Released by: ____ Date Released: ____ Received by: ____

Solvent Lot No.: ____ Final Volume: ____

Additional Comments: FL-407 0.5 ml for clean-up aliquot and final volume is 10 ml
* Added 3 grains Sodium thiosulfate

COPY

FINAL REVIEW SAMPLE COUNT		
Extracts ____	ITL ____	Ext. Log ____
IQC ____	Alumina Check ____	
IQC Std ____	Alumina Std ____	
MS/MSD ____	LCS ____	Blanks ____
Information Complete	ITL? ____	
	Ext. Log? ____	

SP-02, Rev. 8/91

S-CUBED GC/MS Analysis Log

7-3

Volatile Method
CLP 8240 624 1624

Inst. HP4
Other Method

Semivolatile Method
CLP 8270 625 1625

Date	Cal./IS Std. #	ICAL Date	Sample	File ID	Time	IV/FV	Client/ Case #	Chg. #	Archv.	Anal.	Comments
4-28-92	1706A	4-27-92	EMZ92	EMZ92	1408	25ml	19005	32300-02		CB	OK
			EMZ93	EMZ93	1446	25ml				CB	OK
			EMZ94	EMZ94	1525	25ml				CB	OK
			EMZ95	EMZ95	1603	25ml	19005			CB	OK
			EMZ83	EMZ83	1642	25ml	19006			CB	OK
			EMZ85	EMZ85	1720	25ml				CB	OK
			EMZ86	EMZ86	1759	25ml				CB	OK
			EMZ87	EMZ87	1837	25ml				CB	OK
			EMZ90	EMZ90	1916	25ml				CB	OK
			EMZ91	EMZ91	1954	25ml	19006			CB	OK
	-1692		LCSW	LAA28	2032	25ml				CB	OK
4-28-92	-1692		LCSW	LBA28	2111	25ml				CB	OK
4-29-92	1706A	4-27-92	BLKE	BAA29	1029	25ml		32310-02		CB	
	1716		DAILY BFB	TAA29	1102	25ml		32380-02		CB	
			DAILY BFB	TBA29	1148	25ml				CB	
	1716		DAILY BFB	TCA29	1231	25ml				CB	
	1706A 1714	4-29-92	VSTD005	DAA29	1314	25ml/50ml	SAS 6702HQ			CB	
			VSTD015	DBA29	1353 ~~1340~~ 4-30-92	~~50ml~~ 25ml/50ml				CB	
			BLANK	VAA29	1431	25ml				CB	
			VSTD025	PLA25	1517	125ml/50ml				CB	
4-29-92	1706A 1714	4-29-92	VSTD001	PLA01	1555	5ml/50ml	SAS 6702HQ	32380-02		CB	

Review MMD 5/1/92

S-CUBED GC/ Analysis Log

Volatile Method

CLP 8240 624 1624

Inst. IIP4

Other Method

Semivolatile Method 7-4

CLP 8270 625 1625

Date	Cal./IS Std. #	ICAL Date	Sample	File ID	Time	IV/FV	Client/ Case #	Chg. #	Archv.	Anal.	Comments
4-29-92	1706A 1714	4-29-92	~~VSTD025~~	~~PLA25~~	~~1517~~	~~125ml/50ml~~	~~SAS 6702HQ~~	~~32380-02~~		~~CB~~	~~duplicate, incorrect ent~~
			VSTD010	PLA10	1634	50ml/50ml				CB	
			VSTD002	PLA02	1712	10ml/50ml				CB	
	1714		VSTD001	VBA29	1751	5ml/50ml				CB	
			BLANK	VCA29	1829	25ml				CB	OK use
			BLANK	HB889	1908	25ml				CB	OK
	1717 ~~1692~~		LCSW	LAA29	1946	20ml/50ml				CB	
			2888-01	PV861	2625	25ml				CB	OK
			2888-01RE	RV861	2103	25ml				CB	OK
			BLANK	BLK29	2142	25ml				CB	
			2889-01	PW22C	2220	25ml				CB	OK
			2889-01RE	RW22C	2259	25ml				CB	
1-29-92	1717 ~~1692~~		LCSW	LBA29	2337	20ml/50ml				CB	
4-30-92	1706A ~~1692~~ 1717	4-29-92	LCSW	LCA29	0016	20ml/50ml	SAS 6702HQ	32380-02		CB	
4-30-92	1716	4-29-92	DAILY BFB	TAA30	1010	25ml	SAS 6702HQ	32380-02		CB	
	1706A 1714		VSTD005	DAA30	1052	25ml/50ml				CB	
	1706A 1714		VSTD005	DBA30	1131	25ml/50ml				CB	use
	1706A		BLANK	VAA30	1209	25ml				CB	
			BLANK	VBA30	1248	25ml				CB	
			BLANK	HBB89	~~1248~~ 1726						
			2900-1 PW015	PW015	1405	25ml				CB	high acetone
4-30-92	1706A	4-29-92	2900-01RE PW015RE	RW015	1443	25ml	SAS 6702HQ	32380-02		CB	IS/surr not spiked properly

Review [signature] 5/1/92

S-CUBED GC/MS Analysis Log

Volatile Method
CLP 8240 624 1624

Inst. HP4
Other Method

Semivolatile Method 7-5
CLP 8270 625 1625

Date	Cal./IS Std. #	ICAL Date	Sample	File ID	Time	IV/FV	Client/ Case #	Chg. #	Archv.	Anal.	Comments
4-30-92	1706A	4-29-92	BLANK	BLK30	1522	25ml	SAS 6702HQ	32380-02		CB	
			2906-01 EQK20	EQK20	1600	25ml				CB	OK
			2906-02 EQK21	EQK21	1639	25ml				CB	OK
			2906-03 EQK22	EQK22	1717	25ml				CB	OK
			2906-04 EQK23	EQK23	1756	25ml				CB	OK
			2906-05 EQK24	EQK24	1834	25ml				CB	OK
			2906-06 EQK25	EQK25	1913	25ml				CB	OK
			2900-01 PN015RX	LAA30	1951	25ml				CB	use
	- 1717		LCSW	LBA30	2029	25ml				CB	
	1706A - 1717		LCSW	LCA30	2108	25ml				CB	
4-30-92		4-29-92	~~BAKE~~	~~BAA30~~		~~25ml~~	SAS 6702HQ	32380-02		CB	not run
5-1-92	1716	4-29-92	BFB	TAM01	0953	25ml	SAS 6702HQ	32380-02		CB	
	1706A		VSTD005	MY005 ~~MY050~~	1052	25ml/50ml				CB	
			TEST	LAM01	1129	25ml				CB	
			VSTD025	MY025	1208	125ml/50ml				CB	
			VSTD001	MY001	1246	5ml/50ml				CB	
			VSTD010	MY010	1325	50ml/50ml				CB	
			VSTD002	MY002	1403	10ml/50ml				CB	
			VSTD025	MYY25	1442	125ml/50ml				CB	
			VSTD010	MYY10	1520	50ml/50ml				CB	
5-1-92	1706A	4-29-92	VSTD005	MYY05	1559	25ml/50ml	SAS 6702HQ	32380-02		CB	

Review

S-CUBED GC/MS Analysis Log

Volatile Method

CLP 8240 624 1624

Inst. HP4

Other Method

Semivolatile Method 7-6

CLP 8270 625 1625

Date	Cal./IS Std. #	ICAL Date	Sample	File ID	Time	IV/FV	Client/ Case #	Chg. #	Archv.	Anal.	Comments
~~5-1-92~~	706A	4-29-92	VST0002	MYY02	1637	10ml/50ml	SAS 6202HQ	32380-02		CB	
			VST0001	MYY01	1716	5ml/50ml				CB	
	-1714		VST0005	DAM01	1754	25ml/50ml				CB	
	706A - 1714		VST0005	DBM01	1853	25ml/50ml				CB	
			BLANK	VAM01	1911	25ml				CB	
			BLANK	VBM01	1949	25ml				CB	
			LCS	LBM01	2028	25ml				CB	
	-1717		LCS	LCM01	2106	25ml				CB	
	-1717		LCS	LDM01	2145	25ml				CB	
			LCS	LEM01	2223	25ml				CB	
5-1-92	706A	4-29-92	BAKE	BAK01	2302	25ml	SAS 6202HQ	32380-02		CB	

Review

7-7

MAXWELL
S-CUBED Division

Instrument ID: HP 1 Method: [illegible]

GC/MS Instrument Run Log

S-Cubed Sample ID*	File ID	Run Time*	Run Date	ICAL Date	Charge Number	Cal/IS Standard	AS Load Check*	Archive ID	Analyst*	Accept Data? Y/N*	Comments/Dilutions
DFTPP	T0505	09:18	05/05/92	03/23/92	32380-02	1710/1610A	Dm		Dm	Y	
SSTD020	C0505	09:41	↓	↓			Dm		Dm	Y	
DFTPP	TA505	14:12	05/05/92	03/23/92	32380-02	1710/1610A	Dm		Dm	Y	
SSTD020	CA505	14:34					Dm		Dm	Y	
EBW0504	EBY05	15:34					Dm		Dm	Y	
LCSW0504A	LSY05	16:32					Dm		Dm	N	
LCSW0504B	ASY05	17:30					Dm		Dm	N	
LCSW0504C	BSY05	18:27					Dm		Dm	N	
2900-02	FU033	19:25					Dm		Dm	Y	
2906-01	EQK20	20:23					Dm		Dm	Y	
2906-02	EQK21	21:21					Dm		Dm	Y	
2906-03	EQK22	22:19					Dm		Dm	Y	
2906-04	EQK23	23:16					Dm		Dm	Y	
2906-05	EQK24	00:14					Dm		Dm	Y	
2906-06	EQK25	01:12					Dm		Dm	Y	
LCSW0504Q	LCSY5	02:09	↓	↓	↓	↓	Dm		Dm	Y	
									Dm		

* Must be completed for each sample, NO line downs.

Reviewed: _____

SA-03, Rev. 4/92

7-8

MAXWELL
S-CUBED Division

Internal Transfer of Custody

Transfer Requested By: SUITE 307
Date of Request: 4-5-1-92
Date Needed: _____ Time Needed: _____

Sample Description

S-Cubed Lot Nos.: 2900, 06
Case/Episode/Project: 19026 | SAS 6702 HQ
No. of Samples/Extracts: 10
Sample Analysis: BNA Pest VOA Inorganic Other LDC
Sample Type: Extract Water Soil VOA

Released By:	Accepted By:	Date	Time	Comments
A Flordeliza	SS	5-1-92	3:30 P.M	

Distribution:
1. Original with Samples
2. For Sample Archive
3. Lab Copy
4. Sample Custodian

7-8

7-8

MAXWELL
S-CUBED Division

Internal Transfer of Custody

Transfer Requested By: SUITE 307
Date of Request: 4-5-1-92
Date Needed: _____ Time Needed: _____

Sample Description

S-Cubed Lot Nos.: 2900, 06
Case/Episode/Project: 190261 SAS 6702 HQ
No. of Samples/Extracts: 10
Sample Analysis: BNA Pest VOA Inorganic Other UDL
Sample Type: Extract Water Soil VOA

Released By:	Accepted By:	Date	Time	Comments
A Flordeliza		5-1-92	3:30 P.M	

Distribution:
1. Original with Samples
2. For Sample Archive
3. Lab Copy
4. Sample Custodian

7-8

MAXWELL
S-CUBED Division

Column/Cartridge Cleanup Worksheet

Project/Case: 19026 / SAS 6702 HQ / 2900, 06
Work Order No.: 32380-02

Cleanup Method: 1 (2) 3
Other: _____

Date of Cleanup: 5-1-92
Analyst: AF

Column/Cartridge Prep Notes
Lot No.: 5620
Activation (mL): _____
Date Prepped: _____
Column/Cartridge QC Std.: FL-407

Sample ID	Comments
EBLW 0430	
LCSW 0430 A	
LCSW 0430 B	
2900-03	PR 886
2906-01	EQK 20
-02	21
-03	22
-04	23
-05	24
-06	25

Methods:
1 CLP Pesticide Alumina Cleanup (2/88)
2 CLP Pesticide Florisil Cartridge Cleanup (2/90)
3 1618 Cartridge Cleanup

COPY

SP-04, Rev. 8/90

AIRBILL
PACKAGE
TRACKING NUMBER

2271370631

8-1

RECIPIENT'S COPY

QUESTIONS? CALL 800-238-5355 TOLL FREE.

2271370631

Date 4/28/92

Your Phone Number (Very Important) (513) 241-

Please Print

Department

State

(on invoice.)

Acct No 4 ☐ Bill Credit Card

R INTERNAL BILLING REFERENCE INFORMATION (optional) (Fill in Box H)

D30-002

PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct No

3 ☐ Cash/Check 5 ☐ Bill Third Party

SERVICES (Check only one box)

4

Priority Overnight (Delivery by next business morning)

11 ☐ YOUR PACKAGING

16 ☐ FEDEX LETTER

12 ☐ FEDEX PAK

13 ☐ FED

Standard (Delivery by

DELIVER WEEKDAY

(Extra charge)

cations)

DOUS GOODS (Extra charge)

DRY ICE _____ Lbs

51 ☐ OTHER SPECIAL SERVICE

9 ☐ SATURDAY PICK-UP (Extra charge)

10 ☐

11 ☐

12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

HANDLING (Required)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE
1	50	
Total	Total 1.50	Total

DIM SHIPMENT (Chargeable Weight)

☐ _____ lbs.

L x W x H = _____

7

Received At

1 ☐ Regular Stop 3 ☐ Drop Box

4 ☐ B.S.C.

2 ☐ On-Call Stop 5 ☐ Station

To (Recipient Name) Please Print: Johna Wilkinson

Recipient's Phone Number (Very Important): (415) 455-801

Company: S-Cubed

Department/Floor No.

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 3333 Carmel Mtn Road

City: San Diego State: CA ZIP Required: 92121

H

IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address

City State ZIP Required

Emp. No. 2906 Date

☐ Cash Received

☐ Return Shipment

☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold

Street Address

City State Zip

Received By:

Date/Time Received 4/29/92 10:00 AM FedEx Employee Number

Release Signature:

FedEx Emp. No. Date/Time

Federal Express Use

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 6/91
PART #137204 FXEM 2/92
FORMAT #099

099

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PRINTED IN
U.S.A.

MULTIPLE PACKAGE SERVICE

IF YOU ARE MAKING AN MPS SHIPMENT, APPLY THE SELF ADHESIVE MPS COPY HERE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, or and us refer to Federal Express Corporation, its employees and agent. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms on this Airbill and in our current Service Guide, which is available on request. If there is a conflict between the Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of packages and weight per package from this Airbill will result in our based on our best estimate of the number of packages received and an estimated "default" weight per package, as determined by us.

COMPLETING AIRBILL

AIR TRANSPORTATION TAX

Our basic rate includes a federal tax required by Section 4271, on the air transportation portion of

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to damages for $100, whichever is less, unless you pay for higher authorized value. We do not provide cargo liability. you may pay an additional charge for each additional $ value if you declare a higher value and pay the additional liability will be the lesser of your declared value or the actual package.

In any event we will not be liable for any damages, whether incidental, special or consequential in excess of the declared value, shipment, whether or not Federal Express had knowledge that damages might be incurred including, but not limited to, loss of or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or the acts or omissions of the recipient or anyone else with an interest in package. Also, we won't be liable if you or the recipient violates any of the terms of our agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is $100. For other shipments, the highest declared value we allow is $25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is $500. Items of "extraordinary value," include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may declared value for all packages, not to exceed the $10,000 per package limit described above. (Example 5 packages declared value of up to $125,000.)

If more than one package is shipped on this airbill, our damage will be limited to the actual value of the package (not to exceed the lesser of the total declared package limits described above). You have the responsibility actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must us of your claim within strict time limits. See current Service Guide. We'll consider your claim filed if you call and notify our Service Department at 800-238-5355 and notify us in writing possible.

Within 90 days after, you notify us of your claim, you must provide relevant information about it. We are not obligated to act on any claim you have paid all transportation charges, and you may not deduct amount of your claim from those charges.

If the recipient accepts your package without noting any damage on delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after we deliver them to us to deliver.

NO C.O.D. SERVICES

SERVICES ON THIS AIRBILL. If C.O.D. Service is required, Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

If you give us different payment instructions, you will always be for all delivery costs, as well as any costs we may your package to you or warehousing it pending

RIGHT OF REJECTION

act a shipment at any time, when such damage or delay to other shipments, transportation of which is prohibited by contained in this Airbill or our current

GUARANTEE

Express will a transport

QUESTIONS? CALL 800-238-5355 TOLL FREE.

2271398636

AIRBILL
PACKAGE
TRACKING NUMBER

2271398636

8-1

RECIPIENT'S COPY

Date 4/28/92

1 Please Print: [illegible] Cappel

Your Phone Number (Very Important): (513) 241-0149

Department/Floor No.: ENVIRONMENTAL MANAGEMENT

[illegible] ST STE 719

State: [illegible]

ZIP Required: 45203

2 To (Recipient's Name) Please Print: Juana Wilkinson

Recipient's Phone Number (Very Important): (619) 453-[illegible]

Company: S-Cubed

Department/Floor No.:

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 3398 Carmel Mtn Road

City: San Diego

State: CA

ZIP Required: 92121

3 FOR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): D30-0079212

H IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address:

City:

State:

ZIP Required:

PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct No 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)	Standard Overnight (Delivery by next business afternoon†)
11 ☑ YOUR PACKAGING	51 ☐ YOUR PACKAGING
16 ☐ FEDEX LETTER *	56 ☐ FEDEX LETTER *
12 ☐ FEDEX PAK *	52 ☐ FEDEX PAK *
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE
Economy Two-Day (Delivery by second business day†)	**Government Overnight** (Restricted for authorized users only)
30 ☐ ECONOMY	46 ☐ GOV'T LETTER
	41 ☐ GOV'T PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)

70 ☐ OVERNIGHT FREIGHT ** (Confirmed reservation required)

80 ☐ TWO-DAY FREIGHT **

† Delivery commitment may be later in some areas

*Declared Value Limit $100.

**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 ☐ HOLD FOR PICK-UP (Fill in Box H)

2 ☒ DELIVER WEEKDAY

3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)

4 ☐ DANGEROUS GOODS (Extra charge)

5 ☐

6 ☐ DRY ICE _____ Lbs

7 ☐ OTHER SPECIAL SERVICE

8 ☐

9 ☐ SATURDAY PICK-UP (Extra charge)

10 ☐

11 ☐

12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE
1	50	
Total	Total 1 50	Total

DIM SHIPMENT (Chargeable Weight)

☐ _____ lbs.

L x W x H = _____

Received At

1 ☐ Regular Stop 3 ☐ Drop Box

2 ☐ On-Call Stop 4 ☐ BSC.

5 ☐ Station.

Emp. No. 2906 Date 3/30/92

☐ Cash Received

☐ Return Shipment

☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold

Street Address

City State Zip

Received By: X [signature]

Date/Time Received 4/29/92 10:00 AM FedEx Employee Number

7 Release Signature:

FedEx Emp. No. Date/Time

Federal Express Use

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 6/91
PART #137204 FXEM 2/92
FORMAT #099

099

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PRINTED IN U.S.A.

MULTIPLE PACKAGE SERVICE

IF YOU ARE MAKING AN MPS SHIPMENT, APPLY THE SELF ADHESIVE MPS COPY HERE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms on this Airbill and in our current Service Guide, which is available on request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or $100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional $100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable if you or the recipient violates any of the terms of our agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is $100. For other shipments, the highest declared value we allow is $25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is $500. Items of "extraordinary value," include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Servi

If you send more than one package on this Airbill, yo declared value for all packages, not to exceed the $10 per package limit described above. (Example: 5 packag a declared value of up to $125,000.)

If more than one package is shipped on this airbill, our damage will be limited to the actual value of the pa damaged (not to exceed the lesser of the total declarec package limits described above). You have the responsibi actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING: Y us of your claim within strict time limits. See current Servic

We'll consider your claim filed if you call and notify Service Department at 800-238-5355 and notify us in writi possible.

Within 90 days after you notify us of your claim, you mu relevant information about it. We are not obligated to act on an you have paid all transportation charges, and you may not amount of your claim from those charges.

If the recipient accepts your package without noting any damag delivery record, we will assume that the package was delivered in condition. In order for us to process your claim, you must, to the ex possible, make the original shipping cartons and packing available fo inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any costs we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

Part #137204/13/205
Rev. 6/91

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

2271390673

AIRBILL
PACKAGE
TRACKING NUMBER

2271398 6

8-2

RECIPIENT'S COPY

1 Date 4/20/92

From (Your Name) Please Print: Chris Cappel
Your Phone Number (Very Important): (513) 241-0143
Company: PRC ENVIRONMENTAL MANAGEMENT
Department/Floor No.:
Street Address: 644 LINN ST STE 719
City: CINCINNATI State: OH ZIP Required: 45203

2 To (Recipient's Name) Please Print: John Wilkinson
Recipient's Phone Number (Very Important): (619) 452-[illegible]
Company: S-Cubed
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 3398 Carmel Mtn Road
City: San Diego State: CA ZIP Required: 92121

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): D30-002920

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address: 2906
City: 92380-02 State: ZIP Required:

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No 4 ☐ Bill Credit Card 5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)	Standard Overnight (Delivery by next business afternoon†)
11 ☑ YOUR PACKAGING	51 ☐ YOUR PACKAGING
16 ☐ FEDEX LETTER *	56 ☐ FEDEX LETTER *
12 ☐ FEDEX PAK *	52 ☐ FEDEX PAK *
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE
Economy Two-Day (Delivery by second business day†)	**Government Overnight** (Restricted for authorized users only)
30 ☐ ECONOMY	46 ☐ GOV'T LETTER
	41 ☐ GOV'T PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
70 ☐ OVERNIGHT FREIGHT ** (Confirmed reservation required)
80 ☐ TWO-DAY FREIGHT **

† Delivery commitment may be later in some areas.
*Declared Value Limit $100.
**Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 ☐ HOLD FOR PICK-UP (Fill in Box H)
2 ☒ DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) (Not available to all locations) ☐
4 ☐ DANGEROUS GOODS (Extra charge)
5 ☐
6 ☐ DRY ICE _____ Lbs
7 ☐ OTHER SPECIAL SERVICE
8 ☐
9 ☐ SATURDAY PICK-UP (Extra charge)
10 ☐
11 ☐
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE
1	60	
Total	Total 160	Total

DIM SHIPMENT (Chargeable Weight) ☐ _____ lbs.
L x W x H = _____

Received At
1 ☐ Regular Stop 3 ☐ Drop Box
2 ☐ On-Call Stop 4 ☐ B.S.C. 5 ☐ Station

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg To Del. ☐ Chg To Hold
Street Address
City State Zip
Received By: X
Date/Time Received: 4/29/92 FedEx Employee Number: 10:00 AM

7 Release Signature:
FedEx Emp. No. Date/Time

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 6/91
PART #137204 FXEM 2/92
FORMAT #099
099

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ULTIPLE PACKAGE SERVICE

IF YOU ARE MAKING AN MPS SHIPMENT, APPLY THE SELF ADHESIVE MPS COPY HERE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms on this Airbill and in our current Service Guide, which is available on request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or $100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional $100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable if you or the recipient violates any of the terms of our agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine official(s) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is $100. For other shipments, the highest declared value we allow is $25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is $500. Items of "extraordinary value," include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the $100, $500 or $25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to $125,000.)

If more than one package is shipped on this airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any costs we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

Part #137204/137205
Rev. 6/91

MAXWELL
S-CUBED Division

Lot No. 2900

Sample Log-In Sheet

8-54

DC No._____-___-____

Date Received: 4-22-1992 Date Sampled: Client Code: Reg. 5

Time Received: Not Available

Received by (Sig): [signature] Custody Seals Present/Intact Y N Reporting Format: Summ. CLP Summ Full CLP Disk

Airbill No. FB494934044 Chain of Custody Present/Intact Y N Turnaround Required: 45d 30d 21d ~~14d~~ 48hr Other_____

Charge No. 32380-02 Client Forms Present Y N Quality Control Reqd'd: Level 1(Low) 2(CLP) 3(RCRA) 4(Other) SAS

Case No./Project Code: SAS 6702 HQ CASE # ~~19007~~ 19020 SDG No.: 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Cond	Samp Stor.	OCPOLC	SVOAOLC	VOAOLC							All Info Agree	Notes
2900-01	PW015	WATER	0/1	OK	WA			X								
2900-02	PU833	WATER	↓	↓	↓		X									
2900-03	PR886	WATER	↓	↓	↓	X										

Container Types

Water _____

Soil _____

Soil = Soil/Sediment/Sludge
Water = Aqueous
NAL = Non-Aqueous Liquid
NSS = Non-Soil Solid

Water MS,MSD_____
Soil MS,MSD_____
SDG Complete Y N

Review _____

SC-03, Rev 3/92

MAXWELL
S-CUBED Division

Lot No. 2906

Sample Log-In Sheet

P-55

DC No. ____-____-____

Date Received: 4-29-1992 Date Sampled: 4-28-1992 Client Code: Reg 5

Time Received: Not Available

Received by (Sig): [signature] Custody Seals Present/Intact (Y) N Reporting Format: Summ. CLP Summ (Full CLP) Disk

Airbill No. 2271398636 / 2271397863 Chain of Custody Present/Intact (Y) N Turnaround Required: 45d 30d 21d 14d 48hr Other 14 day

Charge No. 32380-02 Client Forms Present (Y) N Quality Control Reqd'd: Level 1(Low) 2(CLP) 3(RCRA) 4(Other)

Case No./Project Code: SAS 6702 HQ / CASE 19026 SDG No.: ~~2906~~ 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Cond	Samp Stor.	OCPOLC	SVOAOLC	VOAOLC							All Info Agree	Notes
2906-01	EQK20	WATER	9/4	OK	RAY/WA	X	X	X								
2906-02	EQK21	WATER	3/4			X	X	X								
2906-03	EQK22	WATER				X	X	X								
2906-04	EQK23	WATER				X	X	X								
2906-05	EQK24	WATER				X	X	X								
2906-06	EQK25	WATER				X	X	X								

Container Types

Water _____

Soil _____

Soil = Soil/Sediment/Sludge
Water = Aqueous
NAL = Non-Aqueous Liquid
NSS = Non-Soil Solid

Water MS,MSD _____
Soil MS,MSD _____
SDG Complete (Y) N

Review JW 4/30/92

SC-03, Rev 3/92

25-8

S3 Lot# 2906

SAMPLE LOG-IN SHEET

Lab Name: S-CUBED

Page 1 of 1

Received By (Print Name): Joaquin R. Lopez

Log-in Date: 4/29/92

Received By (Signature):

Case Number: 19026

Sample Delivery Group No.: 2900

SAS Number: 0702 HQ

REMARKS:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos.: _____
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: 2271398636 2271378863
7. Sample Tags Present/Absent*
   Sample Tag Numbers Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 4/29/92
11. Time Received: 10:20 AM

Sample Transfer

Fraction: _____ _____

Area #: _____ _____

By: _____ _____

On: _____ _____

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EQK 20	5-046638-	2906-01	
	5-046651	-02	
EQK 21	5-046658-	-02	
	5-046664		
EQK 22	5-046668-	-03	
	5-046674		
EQK 23	5-046678-	-04	
	5-046684		
EQK 24	5-046688-	-05	
	5-046694		
EQK 25	5-046698		
	5-046704	-06	

* Contact SMO and attach record of resolution

Reviewed By: MW

Date: 4/30/

Logbook No.: _____

Logbook Page No: _____

FORM DC-1

LOW CONCENTRATION WATER FOR ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME _____ CITY/STATE _____

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

CONTRACT NO. _____ SOW NO. _____

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II, PARAGRAPH 5, and SECTION III, PARAGRAPH 16.)

	PAGE NOs FROM	TO	CHECK LAB	EPA
1. Inventory Sheet (Form DC-2) (Do not number)	___	___	___	___
2. SDG Case Narrative	___	___	___	___
3. Traffic Report	___	___	___	___
4. Volatiles Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II LCV)	___	___	___	___
Lab Control Sample Recovery (From III LCV)	___	___	___	___
Method Blank Summary (Form IV LCV)	___	___	___	___
Tuning and Mass Calibration (Form V LCV)	___	___	___	___
b. Sample Data	___	___	___	___
TCL Results - (Form I LCV)			___	___
Tentatively Identified Compounds (Form I LCV-TIC)			___	___
Reconstructed total ion chromatograms (RIC) and Quantitation Reports for each sample			___	___
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			___	___
Mass spectra of all reported TICs with three best library matches			___	___
c. Standards Data (All Instruments)				
Initial Calibration Summary (Form VI LCV)	___	___	___	___
RICs and Quan Reports for all Standards	___	___	___	___
Continuing Calibration (Form VII LCV)	___	___	___	___
RICs and Quan Reports for all Standards	___	___	___	___
Internal Standard Area and RT Summary (Form VIII LDV)	___	___	___	___
d. QC Data				
BFB	___	___	___	___
Blank Data	___	___	___	___
LCS Data	___	___	___	___
PES Data	___	___	___	___
5. Semivolatiles Data				
a. QC Summary	___	___	___	___
Surrogate Percent Recovery Summary (Form II LCSV)	___	___	___	___
Lab Control Sample Recovery (Form III LCSV)	___	___	___	___
Method Blank Summary (Form IV LCSV)	___	___	___	___
Tuning and Mass Calibration (Form V LCSV)	___	___	___	___

P-57

S3 Lot # 2900

SAMPLE LOG-IN SHEET

Lab Name: S-CUBED Page ____ of ____

Received By (Print Name): Joaquin R Lopez Log-in Date: 4/22/92

Received By (Signature): [signature]

Case Number: 19007

Sample Delivery Group No.: ____

SAS Number: 6702 HQ

REMARKS:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos.: ____
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: FB49493644
7. Sample Tags Present/Absent*

   Sample Tag Numbers Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/ Leaking
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 4/22/92
11. Time Received: 10:00 AM

Sample Transfer

Fraction: ____ ____

Area #: ____ ____

By: ____ ____

On: ____ ____

	CORRESPONDING		
EPA SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
PW015	PE AMPULE		
PU833	PE AMPULE		
PR886	PE AMPULE		

* Contact SMO and attach record of resolution

Reviewed By: ____

Date: ____

Logbook No.: ____

Logbook Page No: ____

FORM DC-1

LOW CONCENTRATION WATER FOR ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME _____ CITY/STATE _____

CASE NO. _____ SDG NO. _____ SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

CONTRACT NO. _____ SOW NO. _____

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II, PARAGRAPH 5, and SECTION III, PARAGRAPH 16.)

	PAGE NOs FROM	TO	CHECK LAB	EPA
1. Inventory Sheet (Form DC-2) (Do not number)	___	___	___	___
2. SDG Case Narrative	___	___	___	___
3. Traffic Report	___	___	___	___
4. Volatiles Data				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II LCV)	___	___	___	___
Lab Control Sample Recovery (From III LCV)	___	___	___	___
Method Blank Summary (Form IV LCV)	___	___	___	___
Tuning and Mass Calibration (Form V LCV)	___	___	___	___
b. Sample Data	___	___	___	___
TCL Results - (Form I LCV)			___	___
Tentatively Identified Compounds (Form I LCV-TIC)			___	___
Reconstructed total ion chromatograms (RIC) and Quantitation Reports for each sample			___	___
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			___	___
Mass spectra of all reported TICs with three best library matches			___	___
c. Standards Data (All Instruments)				
Initial Calibration Summary (Form VI LCV)	___	___	___	___
RICs and Quan Reports for all Standards	___	___	___	___
Continuing Calibration (Form VII LCV)	___	___	___	___
RICs and Quan Reports for all Standards	___	___	___	___
Internal Standard Area and RT Summary (Form VIII LDV)	___	___	___	___
d. QC Data				
BFB	___	___	___	___
Blank Data	___	___	___	___
LCS Data	___	___	___	___
PES Data	___	___	___	___
5. Semivolatiles Data				
a. QC Summary	___	___	___	___
Surrogate Percent Recovery Summary (Form II LCSV)	___	___	___	___
Lab Control Sample Recovery (Form III LCSV)	___	___	___	___
Method Blank Summary (Form IV LCSV)	___	___	___	___
Tuning and Mass Calibration (Form V LCSV)	___	___	___	___

8-58

POST OFFICE TO ADDRESSEE

EXPRESS MAIL
NEXT DAY SERVICE ®

FR494934044US

For Postal Use

Initials of Receiving Clerk

Weight ____ lbs. ____ oz.

C.O.D. $

ACCEPTANCE

☐ International Country Code ____

☐ Next Day Delivery or ☐ Second Day Delivery

☐ By 12 Noon or ☐ By 2:00 PM

☐ Military 2nd Day or ☐ Military 3rd Day

Total Postage & Fees $

Express Mail Corporate Account No.:

Federal Agency Account No.:

For Customer Use

FROM:

[illegible]
[illegible] Regional Laboratory
536 South Clark Street-Room 1029
Chicago, Illinois 60605

2888
2889
2900*

Label 11-B (April 1990)

32380-02

4/22/92
10:00 AM

X Signature of Addressee or Agent

DELIVERY WAS ATTEMPTED

Date:

Time: A.M. P.M.

Signature of Delivery Employee

Waiver of Signature and Indemnity (Domestic Only)

I wish delivery to be made without obtaining the signature of the addressee or the addressee's agent (if in the judgement of the delivery employee, the article can be left in a secure location) and I authorize the delivery employee to sign that the shipment was delivered and understand that the signature of the delivery employee will constitute valid proof of delivery.

SIGNED: ____

ADDRESSEE'S COPY

For Customer Use

TO:

Telephone Number: ____

[illegible]
3393 Carmel Mountain Road
San Diego, California 92121

53 Lot # 2900

9-1

DATE: 4/21/92

SUBJECT: PE AMPULES FOR REGION V RESIDENTIAL WELL SAS 6702HQ

FROM: JAN PELS, REGION V RSCC

TO: MARK HATCHER, S-CUBED

ENCLOSED PLEASE FIND THE FOLLOWING PE AMPULES FOR CASE 19007:

VOA PW015

ABN PU833

PEST/PCB PR886

PLEASE CALL IF YOU HAVE ANY QUESTIONS.

4/22/92
10:00AM

53 Lot # 2900

9-1

DATE: 4/21/92

SUBJECT: PE AMPULES FOR REGION V RESIDENTIAL WELL SAS 6702HQ

FROM: JAN PELS, REGION V RSCC

TO: MARK HATCHER, S-CUBED

ENCLOSED PLEASE FIND THE FOLLOWING PE AMPULES FOR CASE 19007:

VOA PW015

ABN PU833

PEST/PCB PR886

PLEASE CALL IF YOU HAVE ANY QUESTIONS.

4/22/92
10:00AM

MAXWELL
S-CUBED Division

Lot No. 2900

Organic Internal Traffic Log

DC No._____-_____

9-2

Date Received: 4-22-1992 Date Sampled: Client Code: Reg. 5

Received by: [signature] Project Notes:

Chain of Custody Present: ☒ N

Turnaround Required: 14 days Data Due Date: 5/11 S-Cubed Project Manager: JoAnn W

Reporting Level: Summ. CLP Summ Full CLP Disk Charge Number: 32380-02

Case No./Project Code: SAS 6702 HQ CASE# 19026 SDG No.: 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Storage	Samp Amount	% Moist.	pH	Analyze
2900-01	PW015	WATER	0/1	WA				X

Analysis Requirements

Analysis Code: **VOAOLC**

Analytes:_____ Surrogates:_____

Extraction:_____

Cleanup:_____

Analytical Notes:_____

Holding Time: 5/~~14~~6 TICs? ☒

QC Level:_____ Completeness:_____

MS MSD Rep LCS Blank

Custody Record

TASK	Date	Initials	Ext. Storage
Extraction			
Screen			
Dry/Conc			
Cleanup			
Final Volume			
Review/Transfer			
Analysis	*		
Data Reduction			
Extract Archive			
Sample Disposal			

Custody Notes: * 4-30-92

QC Level:
1 - Low (Blank,LCS)
2 - CLP
3 - RCRA
4- Other:_____

Sample Type
S = Soil/Sediment/Sludge
W = Aqueous
NSS = Non-Soil Solid
NAL = Non-Aqueous Liquid

Sample Storage Notes
WA - Walkin A RF21 - Ext. in Proc.
WB - Walkin B RF22 - Ext. Complete
WC - Walkin C RF24 - Ext Analysed
WD - Walkin D RF4 - Ext Analyzed
RF6 - VOA RF9 - VOA

Review: 4/30/92 [initials]

SC-06, Rev 03/92

MAXWELL
S-CUBED Division

Lot No. 2906

Organic Internal Traffic Log

DC No._____-___-___

Date Received: 4-29-1992 Date Sampled: 4-28-1992 Client Code: RS.5

Received by: [illegible] Project Notes:

Chain of Custody Present: Y N mail 5/12

Turnaround Required: 14 days Data Due Date: 5/11 S-Cubed Project Manager:

Reporting Level: Summ. CLP Summ Full CLP Disk Charge Number:

9-3

Case No./Project Code: SAS 6702 HG / CASE 7020 SDG No.: ~~2906~~ 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Storage	Samp Amount	% Moist.	pH	Analyze
2906-01	EQK20	WATER	9/4	RF9/WA				X
2906-02	EQK21	WATER	3/4					X
2906-03	EQK22	WATER						X
2906-04	EQK23	WATER						X
2906-05	EQK24	WATER						X
2906-06	EQK25	WATER						X

Analysis Requirements

Analysis Code: **VOAOLC**

Analytes:_____ Surrogates:_____

Extraction:_____

Cleanup:_____

Analytical Notes:_____

Holding Time: 5/6/92 TICs? ☒

QC Level: 4 Completeness: 100

MS MSD Rep LCS Blank

Custody Record

TASK	Date	Initials	Ext. Storage
Extraction			
Screen			
Dry/Conc			
Cleanup			
Final Volume			
Review/Transfer			
Analysis	*		
Data Reduction			
Extract Archive			
Sample Disposal			

Custody Notes: * 4-30-92 CA

QC Level:
1 - Low (Blank,LCS)
2 - CLP
3 - RCRA
4- Other: SAS

Sample Type
S = Soil/Sediment/Sludge
W = Aqueous
NSS = Non-Soil Solid
NAL = Non-Aqueous Liquid

Sample Storage Notes
WA - Walkin A RF21 - Ext. in Proc.
WB - Walkin B RF22 - Ext. Complete
WC - Walkin C RF24 - Ext Analysed
WD - Walkin D RF4 - Ext Analyzed
RF6 - VOA RF9 - VOA

Review: JW 4/30/92

SC-06, Rev 03/92

MAXWELL
S-CUBED Division

Lot No. 2900

Organic Internal Traffic Log

DC No. _____-___-___

(9-4)

Date Received: 4-22-1992 Date Sampled:

Client Code: Reg 5

Received by: [illegible]

Project Notes:

Chain of Custody Present: Y N

Turnaround Required: 14 days Data Due Date: 5/11

S-Cubed Project Manager: JoAnn W

Reporting Level: Summ. CLP Summ Full CLP Disk

Charge Number: 32380-02

Case No./Project Code: SAS 6702 HR CASE # 19026 SDG No.: 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Storage	Samp Amount	% Moist.	pH	Analyze
2900-02	PU833	WATER	0/1	WA				X

QC Level:
1 - Low (Blank,LCS)
2 - CLP
3 - RCRA
4- Other:_____

Sample Type
S = Soil/Sediment/Sludge
W = Aqueous
NSS = Non-Soil Solid
NAL = Non-Aqueous Liquid

Sample Storage Notes
WA - Walkin A RF21 - Ext. in Proc.
WB - Walkin B RF22 - Ext. Complete
WC - Walkin C RF24 - Ext Analysed
WD - Walkin D RF4 - Ext Analyzed
RF6 - VOA RF9 - VOA

Analysis Requirements

Analysis Code: **SVOAOLC**

Analytes:_____ Surrogates:_____

Extraction:_____

Cleanup:_____

Analytical Notes:_____

Holding Time: 5/4 TICs? ☒

QC Level:_____ Completeness:_____

MS MSD Rep LCS Blank

Custody Record

TASK	Date	Initials	Ext. Storage
Extraction	5/4/92	AF	
Screen			
Dry/Conc	5/5/92	AF	
Cleanup			
Final Volume			
Review/Transfer	5/5/92	AF	
Analysis	05/05/92	DM	
Data Reduction	05/06/92	DM	
Extract Archive			
Sample Disposal			

Custody Notes:

Review: [illegible] 4/30/92

SC-06, Rev 03/92

MAXWELL
S-CUBED Division

Lot No. 2906

Organic Internal Traffic Log

DC No. _____ - _____ - _____

9-5

Date Received: 4-29-1992 Date Sampled: 4-28-1992 Client Code: Reg 5

Received by: [illegible] Project Notes:

Chain of Custody Present: (Y) N Mod 5/12

Turnaround Required: 14 day Data Due Date: 5/11 S-Cubed Project Manager: JoAnn W

Reporting Level: Summ. CLP Summ (Full CLP) Disk Charge Number: 32380-02

Case No./Project Code: SAS 6702H0 / CASE 19026 SDG No.: ~~2906~~ 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Storage	Samp Amount	% Moist.	pH	Analyze
2906-01	EQK20	WATER	9/4	RA9/WA				X
2906-02	EQK21	WATER	3/4					X
2906-03	EQK22	WATER						X
2906-04	EQK23	WATER						X
2906-05	EQK24	WATER						X
2906-06	EQK25	WATER						X

Analysis Requirements

Analysis Code: **SVOAOLC**

Analytes: _____ Surrogates: _____

Extraction: _____

Cleanup: _____

Analytical Notes: _____

Holding Time: 5/4/92 TICs? ☒

QC Level: 4 Completeness: 100

MS MSD Rep LCS Blank

Custody Record

TASK	Date	Initials	Ext. Storage
Extraction	5/4/92	AF	
Screen			
Dry/Conc	5/5/92	AF	
Cleanup			
Final Volume			
Review/Transfer	5/5/92	AF	
Analysis	05/06/92	DW	
Data Reduction	05/06/92	DW	
Extract Archive			
Sample Disposal			

Custody Notes:

QC Level:
1 - Low (Blank,LCS)
2 - CLP
3 - RCRA
4- Other: SAS

Sample Type
S = Soil/Sediment/Sludge
W = Aqueous
NSS = Non-Soil Solid
NAL = Non-Aqueous Liquid

Sample Storage Notes
WA - Walkin A RF21 - Ext. in Proc.
WB - Walkin B RF22 - Ext. Complete
WC - Walkin C RF24 - Ext Analysed
WD - Walkin D RF4 - Ext Analyzed
RF6 - VOA RF9 - VOA

Review: [illegible] 4/30/92

SC-06, Rev 03/92

MAXWELL
S-CUBED Division

Lot No. 2900

Organic Internal Traffic Log

DC No. _____ - _____ - _____

9-6

Date Received: 4-22-1992 Date Sampled: Client Code: Reg 5

Received by: [signature] Project Notes:

Chain of Custody Present: ~~Y~~ N

Turnaround Required: 14 days Data Due Date: 5/11 S-Cubed Project Manager: JoAnn W

Reporting Level: Summ. CLP Summ Full CLP Disk Charge Number: 32580-02

Case No./Project Code: SAS 6702 HQ / CASE # 190270 SDG No.: 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Storage	Samp Amount	% Moist.	pH	Analyze
2900-03	PR886	WATER	0/1	WA				X

Analysis Requirements

Analysis Code: **OCPOLC**

Analytes: _____ Surrogates: _____

Extraction: _____

Cleanup: _____

Analytical Notes: _____

Holding Time: 5/4 TICs? ☐

QC Level: _____ Completeness: _____

MS MSD Rep LCS Blank

Custody Record

TASK	Date	Initials	Ext. Storage
Extraction	4-30-92	AF	
Screen			
Dry/Conc	5-1-92	AF	
Cleanup	5/1/92	AF	
Final Volume	5/1/92	AF	
Review/Transfer	5/1/92	AF	
Analysis	5-8-92	SS/N	
Data Reduction	5-8-92	SS/N	
Extract Archive			
Sample Disposal			

Custody Notes:

QC Level:
1 - Low (Blank,LCS)
2 - CLP
3 - RCRA
4- Other: _____

Sample Type
S = Soil/Sediment/Sludge
W = Aqueous
NSS = Non-Soil Solid
NAL = Non-Aqueous Liquid

Sample Storage Notes
WA - Walkin A RF21 - Ext. in Proc.
WB - Walkin B RF22 - Ext. Complete
WC - Walkin C RF24 - Ext Analysed
WD - Walkin D RF4 - Ext Analyzed
RF6 - VOA RF9 - VOA

Review: 4/30/92

SC-06, Rev 03/92

MAXWELL
S-CUBED Division

Lot No. 2906

Organic Internal Traffic Log

DC No. ____-__-____

9-7

Date Received: 4-29-1992 Date Sampled: 4-28-1992 Client Code: 289.5

Received by: [illegible] Project Notes:

Chain of Custody Present: Y N mail 5/12

Turnaround Required: 14 days Data Due Date: 5/11 S-Cubed Project Manager: JoAnn W.

Reporting Level: Summ. CLP Summ Full CLP Disk Charge Number: 32380-02

Case No./Project Code: SAS 6702 HO / CASE 19026 SDG No.: ~~2906~~ 2900

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Storage	Samp Amount	% Moist.	pH	Analyze
2906-01	EQK20	WATER	9/4	289/WA				X
2906-02	EQK21	WATER	3/4					X
2906-03	EQK22	WATER						X
2906-04	EQK23	WATER						X
2906-05	EQK24	WATER						X
2906-06	EQK25	WATER						X

Analysis Requirements

Analysis Code: **OCPOLC**

Analytes: ____ Surrogates: ____

Extraction: ____

Cleanup: ____

Analytical Notes: ____

Holding Time: 5/4/92 TICs? ☐

QC Level: 4 Completeness: 100

MS MSD Rep LCS Blank

Custody Record

TASK	Date	Initials	Ext. Storage
Extraction	4-30-92	AF	
Screen			
Dry/Conc	5-1-92	AF	
Cleanup	5/1/92	AF	
Final Volume	5/1/92	AF	
Review/Transfer	5/1/92	AF	
Analysis	5/5-8-92	SS/[illegible]	
Data Reduction	5-8-92	SS/[illegible]	
Extract Archive			
Sample Disposal			

Custody Notes:

QC Level:
1 - Low (Blank,LCS)
2 - CLP
3 - RCRA
4- Other: SAS

Sample Type
S = Soil/Sediment/Sludge
W = Aqueous
NSS = Non-Soil Solid
NAL = Non-Aqueous Liquid

Sample Storage Notes
WA - Walkin A RF21 - Ext. in Proc.
WB - Walkin B RF22 - Ext. Complete
WC - Walkin C RF24 - Ext Analysed
WD - Walkin D RF4 - Ext Analyzed
RF6 - VOA RF9 - VOA

Review: [illegible] 4/30/92

SC-06, Rev 03/92

(10-1)

REPORT REVIEW

SDG: 2900 FRACTION: VOA

CHARGE NUMBER: 32380-02 INITIALS: AM Date: 5-12-92

NARRATIVE NOTES:

List of dilutions and reanalyses (explanation): none

QC SUMMARY:

* FORM 2: (attach calculation check documentation) ✓

- recoveries / calculations correct and within QC ? ✓
(RE if any one outside QC ;no RE for a DL,MS or MSD)
- all samples included? ✓
- correct headers, naming, flags etc? ✓

* FORM 3: (attach calculation check documentation) ✓

- correct number of MS/MSD LCS? (Sample used for MS/MSD:_____) ✓
- correct headers? ✓
- calculations correct; recoveries within QC? ✓ all ok.
~~[illegible]~~ dcp. spike 3.15

* FORM 4:

-correct number (may use same for W and Med soils) ✓
(refer to Analysis shift checklist and page 3)
- all samples accounted for and correctly associated? ✓
- correct headers, analysis dates/times, names etc? ✓

* FORM 5:

(refer to Analysis shift checklist)

- correct headers, all samples accounted for? ✓
  (may use same for W and Med soil)

- correct naming, dates, times, chronological order? ✓

- spot check:ratios correct and within QC? (normalized to 95) ✓
  12 h not exceeded?

* FORM 8:

(refer to Analysis shift Check list)

- one for each CCAL and for 50 pt ICAL if samples analyzed under same tune? All samples accounted for? ✓

- correct headers, sample names ✓

- spot check: areas within -50% and + 100% ? ✓

- spot check: maximum 0.5 min. shift in RTs? ✓

SAMPLE DATA PACKAGES:

* FORM 1:

(attach quantitation limit and calculation check documentations) ✓

- headers correct? ✓

- Quantitation limits correct? ✓

- holding times (Check method QAPjP..... usually 10 d reciept or 14 d sampling)? ✓

-**B** flags correct? (none needed) ✓

- Overall level of contamination; specific notes on samples? clean! only a couple of minor CS2, Ac

- If a targ. comp. exceeded cali range or if sample had saturated ions, was system free of interference after the analysis? —

- spot check: quantitation OK? ✓

- spot check: spectra, quan report. OK? ✓

- spot check: TICs identified/entered correctly ; JN flags OK? (none needed)

10-2

STANDARDS DATA: (see Analysis shift Checklist)
(attach Response Factor check documentation)

* FORM 6:
  - all ICAL dates, instruments, matrix/conc levels (may use same for W and Med soil)? ✓
  - headers OK? ✓
  - isomers separated?
  - spot check: * cmpd %RSD max ~~20.5~~ 30% (2 may exceed, but max 40%)? ✓
  - spot check: minimum RRF criteria met for * cmpds; other RRFs min. 0.01? ✓

* FORM 7:
  - all included, in chronol. order, by instrument? ✓
  - headers OK? ✓
  - isomers separated?
  - spot check: * cmpd %D max 25 (2 may exceed, but 40% max) ? ✓
  - spot check: * cmpd min. RRF met, others min. 0.01? ✓
  - spot check: Average RRFs agree with Form 6?

RAW QC DATA:

BFB RIC, spec/list - all included, legible etc? ✓

Blank Data ✓
  - headers OK?
  - spot check: contamination within limits?
    (less than 5xCRQL MeCl,Ace,MEK; less than CRQL others)
  - spot check: spectra

Date (AM/PM)	Inst .	Analytes
		Clean!

MS/MSD/LCS Data ✓
  - spot check: Data correct and reproducible?

Sum. calc.

EQ K20:

$$\frac{\frac{43306}{79002} \times 5}{\frac{40054}{77131} \times \frac{5}{5}} = 5.28 \qquad \frac{5.28}{5} \times 100 = 106 \checkmark$$

LCS: Vinylchloride.

+ Quant. check.

$$\frac{\frac{10255}{76979} \times 5}{\underbrace{\frac{8693}{72589} \times \frac{5}{5}}_{0.12}} = 5.52 \qquad \frac{5.52}{5} \times 100 = 111 \checkmark$$

RF 5/1 ✓ on Form 7

Form 6 RF check

Meth$_2$ 5pt $\frac{24454}{103567} \times \frac{5}{5} = 0.24$ ✓ OK

Xyl. 5pt. 0.56 0.564 ✓ OK

10-3

REPORT REVIEW

SDG: 2900 FRACTION: SVOA

CHARGE NUMBER: 32380-02 INITIALS: AJ Date: 5-12-92

NARRATIVE NOTES:

List of dilutions and reanalyses (explanation): none.

QC SUMMARY:

* FORM 2: (attach calculation check documentation) ✓

- recoveries correct and within QC limits? ✓
(RE if any one below 10 or if 2 BN or 2 A outside QC ;no RE for a DL,MS or MSD)

all ok.

- correct headers, naming, flags etc?

* FORM 3: (attach calculation check documentation) ✓

- correct number of MS/MSD, LCS? (Sample used for MS/MSD:_____) ✓

- correct headers? ✓

- calculations correct ; recoveries within QC? ✓ all ok

* FORM 4:

- correct number? \see page 3)

- all samples accounted for and correctly associated? ✓

- correct headers, analysis dates/times, names etc?

* FORM 5:

(refer to Analysis shift Checklist)

- correct headers, all samples accounted for?

- correct naming, dates, times, chronological order?

- spot check: ratios correct and within QC? (normalized to 198)
  12 h not exceeded?

* FORM 8:

(refer to Analysis shift Checklist)

- one for each CCAL and for 50 pt ICAL if samples analyzed under same tune? All samples accounted for?

- correct headers, sample names

- spot check: areas within -50% and + 100% ?

- spot check: maximum 0.5 min. shift in RTs?

SAMPLE DATA PACKAGES:

* FORM 1:

(attach Quantitation limit and calculation check documentation)

- headers correct?

- Quantitiation limits correct?

- holding times OK ? - PU833 arrived 1 week earlier than samples, extracted at the same time as samples → HT exceeded by 1 week.

(Check method, QApjP...usually 5 d for W, 10 d for S..or 14 d from sampling)

-**B** flags correct?

- Overall level of contamination; specific notes on samples?

clean!

- spot check: quantitation OK?

- spot check: spectra, quan report. OK?

- spot check: TICs identified/entered correctly ; JN flags OK?

10-4

STANDARDS DATA: (see Analysis Shift Checklist)
(attach Response Factor check documentation)

* FORM 6:
- all ICAL dates, instruments, matrix/conc levels ?
- headers OK?
- isomers separated?
- spot check: * cmpd %RSD max 20.5% (4 may exceed, but max 40%)?
- spot check: minimum RRF criteria met for * cmpds; other RRFs min. 0.01?

* FORM 7:
- all included, in chronol. order, by instrument?
- headers OK?
- isomers separated?
- spot check: * cmpd %D max 25 (4 may exceed, but 40% max) ?
- spot check: * cmpd min. RRF met, others min. 0.01?
- spot check: Average RRFs agree with Form 6?

RAW QC DATA:

DFTPP RIC, spec/list - all included, legible etc?

Blank Data
- headers OK?
- spot check: contamination within limits?
(less than 5xCRQL phthalates; less than CRQL others)
- spot check: spectra

Date	Inst .	Analytes
		Clean

MS/MSD/LCS Data
- spot check: Data correct and reproducible?

~~[illegible]~~ calc. check!

EQK 20: (5/5) Spike: $\frac{0.5\ ml \times 80/240\ \mu g/ml}{1\ l} = 40/120\ \mu g/l$

d5-P $\frac{\frac{27111}{12141} \times 20}{\underbrace{\frac{22882}{16435} \times \frac{20}{20}}_{1.39 \checkmark}} = 32.08 \checkmark$ $\frac{32.08}{40} \times 100 = 80 \checkmark$

LCS: check Spike: $\frac{0.5\ ml \times 40/80\ \mu g/ml}{1\ l} = 20/40\ \mu g/l = 20000/40000\ ng$

phenol, $\frac{\frac{30013}{11439} \times 20}{\underbrace{\frac{26906}{16435} \times \frac{20}{20}}_{1.64}} = 32.00$ $32.05 \checkmark$

CCAL RF Check: (5/5) 1.637 ✓

$\frac{32.05 \times 10^3\ ng}{40 \times 10^3\ ng} \times 100 = 80 \checkmark$

10-5

REPORT REVIEW

SDG: 2900 FRACTION: PEST/PCB

CHARGE NUMBER: 32380-02 INITIALS: pw Date: 5/11

NARRATIVE NOTES: 19026

List of dilutions and reanalyses (explanation):

None

QC SUMMARY:

* FORM 2: (attach calculation check documentation)

EQK22 TCMX

~~11.24 × 2~~ / 1000

11.24 ng/ml × 2ml = 22.48 ng = 0.0224 µg / 0.04 µg = ~~55.6%~~ 56.2

- all samples included? ✓
- correct headers, naming, flags etc? ✓
- spot check: recoveries correct and within QC limits? PR886 NO DCB

EQK22 TCX ↑ & ↓ both fail

* FORM 3: (attach calculation check documentation)

- correct number of MS/MSD, LCS? (Sample used for MS/MSD:_____)
- correct headers? ✓
- spot check: calculations correct ; recoveries within QC? ✓

looks good

* FORM 4:

- correct number - headers correct? ✓
- all samples accounted for and correctly associated? ✓
- correct headers, analysis dates/times, names etc? ✓

SAMPLE DATA PACKAGES:

* FORM 1: (attach quantitation limit and calculation check documentation)

- headers correct?

PR886

- detection limits correct?

- holding times OK (5 d for W, 10 d for S)?

α
BHC $5.962 \times 2 ml = \frac{ng}{ml} \frac{}{1000 ml} = 0.0119 ng/ml = ug/l$

- information on Form 1 matches with raw data? (lower value reported, no BDL data?)

- **B,P** and **C** flags correct on Form 1?

- GC/MS confirmation included where needed?

- Overall level of contamination; specific notes on samples?

PR886 - looks good Though Aroclor # is very nonreproducible
EQK 22 had large interferences

- spot check: quantitation OK?

- spot check: chromatogram (on scale), printout OK?

STANDARDS DATA: (attach calibration factor check documentation)

* FORM 6D:
- all ICAL dates, instruments included - headers correct?

- spot check: RTWs OK?

* FORM 6E:
- all ICAL dates, instruments included - headers correct?
- spot check: %RSD equal or less than 20.0 (30 for surr.) (2 may 1701 exceed, 30 max)?

* FORM 6F:
- all ICAL dates, instruments, included - headers correct?
- spot check: RTWs, calibration factors OK?

* FORM 6G:
- all included - headers correct?
- spot check: resolutoin larger or equal to 60.0%?

* FORM 7D:
- all included - headers correct?
- spot check: RTs within RTWs?
- spot check: RPD max 25.0%?
- spot check: DDT and endrin breakdown max 20.0%, comb. 30.0%?

10-6

* FORM 7E:
  - all included - headers correct? ✓
  - spot check: RTs within RTW? ✓
  - spot check: RPD less or equal to 25.0%? ✓✓

DB1701
DDT out on CCAL01 5/2/92 0107

* FORM 8D:
  - all included - headers OK?
  - spot check: sequence correct?
  - spot check: 12 h. not exceeded?
  - spot check: TCX and DCB RTs within 0.05, 0.1 min.? No surr in PEM02,03

* FORM 9A:
  - headers OK?
  - spot check: % recoveries 80 - 120%? From nominal

*FORM 9B:
  - ~~headers OK?~~
  - ~~spot check: % recoveries 80 - 110%?~~

FORM 10:
  - all positive hits included - headers OK?
  - information matches with Form 1?

  - spot check: RTs within RTWs?

* STANDARDS RAW DATA

  - spot check: all included, in correct order?

RAW QC DATA:

Blank Data
  - all included - headers OK? ✓

  - spot check: contamination within limits?
    (less than CRQL of any target, steady baseline) ✓

BLANK	Inst.	ANALYTES
0430	2	Clean

MS/MSD/LCS Data ✓
  - spot check: Data correct and reproducible?

LCS

10-7

Cis + Trans = 5ppb spiked

Cis = ~~3.5ppb~~ 3.15

trans = ~~1.5ppb~~ 1.85

] 100%

NOTE in narrative! (low cis recovery due to low level spike)

Pg 1 of 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/22/92

SUBJECT: Review of Region V CLP Data
Received for Review on May 13, 1992

FROM: Charles T. Elly, Director(5SCRL)
Central Regional Laboratory
Patrick J. Chunilla for

TO: Data User: PRC

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026 SAS6702H9

EPA Data Set No. _____ No. of Samples 6 DU/Activity Numbers 1

CRL No. _____

SMO Traffic No. EQK 20-25 + (PW015, PU833, PR886)

CLP Laboratory: S-Cubed Hrs. for Review 10 hrs + 3 = 13 DMM

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

NARRATIVE

CONTRACTOR: S-CUBED
CASE: 19026
SDG: 2900
SAS: 6702HQ

The samples were collected on 04/28/92. The laboratory received six (6) water samples in good condition for full organic analysis following the Low Concentration Water Analysis. In addition, three PE samples were also included for this case (PW015 for VOA, PU833 for SVOA and PR886 for Pest/PCB).

Lab Control Samples were analyzed instead of the spike/spike duplicate samples for VOA, SVOA and Pest/PCB analysis.

The CRL reports were not included in this data package. None of the samples in this case were identified as the field blank or field duplicate.

The VOA samples were analyzed within the holding time of fourteen (14) days. The SVOA and Pest/PCB samples were extracted within the holding time of fourteen (14) days. The extracts were then promptly analyzed.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

CONTRACTOR: S-CUBED
CASE: 19026
SDG: 2900
SAS: 6702HQ

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received six (6) water samples for full organic analysis and three (3) PE samples. The VOA samples were analyzed within the holding time of fourteen (14) days; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of fourteen (14) days. The extracts were then promptly analyzed; therefore, the results are acceptable.

2.GC/MS TUNING AND GC PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

DDT and Endrin degradation check using Performance Evaluation Mix of DB-1701 and DB-608 columns were acceptable (<20%).

Retention time for DDT met the required minimum retention time (>12 minutes) criteria for both columns.

The Florisil Cartridge Check and Resolution Check met the QC criteria.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

VBLK01 and VBLK02 are the low level method blanks for VOAs. Both of the blanks were clean. EBW0504 is the method blank for the SVOA fraction and it was found to be clean. EBW0430 is the method blank for the Pest/PCB fraction. It contained no pesticide residues.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

5.SYSTEM MONITORING COMPOUND or SURROGATE RECOVERY

The system monitoring compound for VOAs were well within the QC limits.

The surrogate recoveries for SVOA fraction met the QC criteria. For the Pest/PCB fraction, sample EQK22 had TCX1 and TCX2 outside the QC limits; therefore, the positive results for EQK22 are flagged as estimated (J) and non-detected are flagged with estimated quantitation limits (UJ).

6.LABORATORY CONTROL SAMPLES

The Laboratory Control Samples for VOA, SVOA and Pest/PCB fractions were well within the QC limits.

7.FIELD BLANK AND FIELD DUPLICATE

The CRL reports were not included in this case. None of the samples in this case were identified as the field blanks or field duplicates.

8.INTERNAL STANDARDS

The internal standard areas and IS retention times were well within the QC limits for VOA and SVOA analysis.

9.COMPOUND IDENTIFICATION

Target compounds and TICs were identified by "best fit" library search method.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data is acceptable.

The CRQLs were adjusted to reflect all sample dilutions.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

GC baseline indicated acceptable performance.

12. OVERALL CASE ASSESSMENT

Sample ID#	# of Hits				
	VOA		SVOA		Pest/PCB
	TCL	TIC	TCL	TIC	TCL
PW015	7	0	-	-	-
PU833	-	-	8	1	-
PR886	-	-	-	-	7
EQK20	0	1	0	0	0
EQK21	0	0	0	0	0
EQK22	1	0	0	0	0
EQK23	1	0	0	0	0
EQK24	1	0	0	0	0
EQK25	0	0	0	0	0

(-) No analysis was performed

Reviewed by: Steffanie N. Tobin Lockheed/ESAT

Date: May 21, 1992

CALIBRATION OUTLIERS
LOW CONC. WATER VOLATILE TCL COMPOUNDS

CASE\SAS#: 19026 | 6702HQ

CONTRACTOR: S-CUPED

Instrument# HP4		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 4/29/92 29:00		4/29/92 29:00			4/30/92 11:31			5/1/92 17:54								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0.09			0.12	28	J									
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01	0.31	41	J												
Acetone	0.01	0.03	33	J	0.02	53	J									
Carbon disulfide	0.01	0.66						0.48	27	J						
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10							0.45	28	J						
2-Butanone	0.01	0.34			0.02	46	J	0.2	32	J						
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10							0.24	26	J						
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01	0.09			0.06	38	J	0.06	30	J						
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40	1.45						1.0	32	J						
1,2-Dibromo-3-chloropropane	0.10															
Bromofluorobenzene	0.40															

Samples affected:

Reviewer's Init/Date: ST 5/19/92

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: 19026 / 6702HCQ

CONTRACTOR: S-CUBED

5/20/92

Instrument# HP1		Initial Cal. 8T			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 3/23/92 29:00		3/23/92 ~~29:00~~			5/5/92 14:34											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	0.23	32	J												
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01	1.4	39	J												
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01	0.2	36	J	0.26	36	J									
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.17	39	J												
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

Reviewer's Init/Date: 8T 5/20/92

* These flags should be applied to the analytes on the sample data sheets.
# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 19026 / 67024Q

CONTRACTOR: S-CUPED

Instrument# HP1		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 3/23/92		3/23/92			5/5/92 14:34											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	0.15	-55	J												
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fpuoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: ST 5/20/92

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19026 | 6702HQ **CONTRACTOR:** S-CUBED

Column: DB-1701

Instrument#: 2	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time 4/30/92 11:13	4/30/92 11:13		5/2/92 0:26		5/2/92 16:34			
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:

PR886
EQK20
EQK21
EQK22
EQK23
EQK24
EQK25

Pest/PCB

Reviewer's
Initial/Date ST 5/20/92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 9026/ 6702HQ **CONTRACTOR:** S CUPRED

Column: DB-608

Instrument#: 2	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time 4/2/92 11:13	4/30/92 11:13		5/2/92 0:26		5/2/92 16:34			
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:		
	PR861 ST 5/20/92	~~EM7295~~ ST 5/20/92
	~~PP127~~	PR886
	~~EM288~~	EQK20
	~~EM289~~	EQK21
	~~EM292~~	EQK22
	~~EM294~~	EQK23
		EQK24
		EQK25

Pest/PCB

Reviewer's
Initial/Date ST 5/20/92

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

DATA REPORTING QUALIFIERS
(page 1)

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

U - Indicates compound was analyzed for but not detected. The sample Quantitation Limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if thee sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value <u>must</u> also be adjusted for percent moisture. For example, if the sample had 24% moisture <u>and</u> a 1 to 10 dilution factor, the Sample Quantitation Limit for phenol (330 U) would be corrected to:

$$\frac{(330\ U) \times df}{D}$$

where $D = \frac{100 - \%\ moisture}{100}$

and df = dilution factor

at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(330\ U) \times 10}{.76} = 4300\ U$$ rounded to the appropriate number of significant figures

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume, this fact be accounted for in reporting the Sample Quantitation Limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit bur greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it is as 3J. The Sample Quantitation Limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds. Where the identification is based on a mass spectral library search. It is applied to all TIC results.

DATA REPORTING QUALIFIERS
(page 2)

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/PCBs analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B" and "D" flags for some sample. The laboratory-defined are limited to letters "X", "Y" and "Z".

May 12,1992 Vol 1 of 3

Narrative Case: 19026 **SAS 6702 HQ**
VIAR Prime Contract No. 68-D9-0135
S3 Subcontract No. S3-0135

This case consists of the samples listed in the enclosed sample summary.

Both volatile and semivolatile analyses were straightforward with no compounds detected. No problems were encountered.

Pesticide analyses were straightforward. Field samples were clean. Surrogate and LCS results were compliant with the exception of the recovery of tetrachloro-m-xylene in sample EQK22. This sample exhibited a high level of non target analyte interferences,causing inconsistent,noncompliant recoveries of this surrogate. The first CCAL on the DB1701 column yielded a noncompliant RPD for DDT. Also please note that the PEMs did not contain the surrogates as required by this method. New standards have been prepared.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data reported are true and accurate. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

JWilkinson

Date: 5/12/92
JoAnn Wilkinson, Project Manager

A

S3 Lot# 2906

8-3

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.

Sampling Co.

Sampler (Name)

Sampler Signature

4. Type of Activity

	Lead	Pre-Remedial	Remedial		Removal	
SF	X		RIFS		CLEM	
PRP		PA	RD		REMA	
ST		SSI	RA		REM	
FED		LSI	O&M		OIL	
			NPLD		UST	

5. Date Shipped

Carrier

Airbill Number

6. Ship To

S-Cubed
3598 Carmel Mtn. Rd
San Diego, CA 92121

ATTN: Joann Wilkinson

7. Date Received -- Received by

4/29/92 [signature]

Laboratory Contract Number

Unit Price

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
[illegible]	[illegible]	1	G	1	X				5-046639 - 046647	RW-1	4/28/92 1255		922F9050				
[illegible]				N		X	X		5-046648, 5-046649	RW-1	4/28/92 1255		922F9050				
[illegible]				N			X		5-046650, 5-046651	RW-1	4/28/92 1255		922F9050				
[illegible]				1	X				5-046658 - 046660	RW-1D	4/28/92 1255		922F9000				
[illegible]				N		X			5-046661, 5-046662	RW-1D	4/28/92 1255		922F9000				
[illegible]				N			X		5-046663, 5-046664	RW-1D	4/28/92 1255		922F9000				

Shipment for Case complete? (Y/N)

Page 1 of ____

Sample used for a spike and/or duplicate: EQK20

Additional Sampler Signatures

Chain of Custody Seal Number: 157423, 157424

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	[signature] 4/29/92 10:00 AM
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature)
☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 09240

Org-2

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
     Required information:
     - Case (and/or SAS) Number
     - Date shipped
     - Number of samples by concentration and matrix
     - Carrier and airbill number
     - Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

5° Lot # 2906

8-4

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.

Sampling Co.

Sampler (Name)

Sampler Signature

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped

Carrier

Airbill Number

6. Ship To

S-[illegible]
3398 [illegible] Mtn. Rd.
San Diego CA 92121
ATTN: Joann Wilkinson

7. Date Received -- Received by

4/29/92 [signature]

Laboratory Contract Number

Unit Price

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
[illegible]	[illegible]	L	G	1	X				5-046668-046670	RW-2	4/28/92 1200		922F90S0[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	N		X			5-046671, 5-046672	RW-2	4/28/92 1200		922F90S0[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	N			X		5-046673, 5-046674	RW-2	4/28/92 1200		922F90S0[illegible]				
[illegible]	8	L	G	1	X				5-046679, 046680	RW-3	4/28/92 1630		922F90S0[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	N		X			5-046681, 5-046682	RW-3	4/28/92 1630		922F90S0[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	N			X		5-046683, 5-046684	RW-3	4/28/92 1630		922F90S0				

Shipment for Case complete? (Y/N)

Page 1 of ____

Sample used for a spike and/or duplicate: EQK 20

Additional Sampler Signatures

Chain of Custody Seal Number: 157421, 157422

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	[signature] 4/29/92 10:00AM
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature)
☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 02238

Org-2

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed In Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
     Required information:
     - Case (and/or SAS) Number
     - Date shipped
     - Number of samples by concentration and matrix
     - Carrier and airbill number
     - Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

S3 Lot # 2906

8-5

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No.

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No. | Sampling Co.

Sampler (Name)

Sampler Signature

4. Type of Activity: Lead: SF [X], PRP [ ], ST [ ], FED [ ]; Pre-Remedial: PA [ ], SSI [X], LSI [ ]; Remedial: RIFS [ ], RD [ ], RA [ ], O&M [ ], NPLD [ ]; Removal: CLEM [ ], REMA [ ], REM [ ], OIL [ ], UST [ ]

5. Date Shipped | Carrier

Airbill Number

6. Ship To: Stoel 3398 Cornel Mtn. Rd. San Diego CA 92121

ATTN: Joann Wilkinson

7. Date Received -- Received by: 4/29/92

Laboratory Contract Number | Unit Price

8. Transfer to | Date Received

Received by

Contract Number | Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
[illegible]	B	L	G	1	X				5-046688-046690	RW-4	4/28/92 1145		922F90[illegible]				
[illegible]	↓	↓	↓	N		X			5-046691, 5-046692	RW-4	4/28/92 1145		922F90[illegible]				
[illegible]	↓	↓	↓	N			X		5-046693, 5-046694	RW-4	4/28/92 1145		922F90[illegible]				
[illegible]	↓	↓	↓	1	X				5-046698, 5-046700	B-1	4/28/92 1345		922F90R0				
[illegible]	↓	↓	↓	N		X			5-046701, 5-046702	B-1	4/28/92 1345		922F90R0				
[illegible]	↓	↓	↓	N			X		5-046703, 5-046704	B-1	4/28/92 1345		922F90R0				

Shipment for Case complete? (Y/N) | Page 1 of ____ | Sample used for a spike and/or duplicate: EQK02 | Additional Sampler Signatures | Chain of Custody Seal Number: 157425, 157426

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/29/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	[signature] 4/29/92 10:00 AM
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples [ ] Accepted (Signature)
[ ] Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 02239

Org-2

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements
- Please indicate sample to spike and/or duplicate.
- Ship medium and high concentration samples in paint cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
- Additional sample volume not required for method OLC01.

2. Cooler and Sample Documentation
- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle of each sample container with custody seals.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

3. Sample Shipment Reporting
- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
  Required information:
  - Case (and/or SAS) Number
  - Date shipped
  - Number of samples by concentration and matrix
  - Carrier and airbill number
  - Next planned shipment

  Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

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  Sample Management Office
  P.O. Box 818
  Alexandria, VA 22313
  Phone: (703) 557-2490
  (703) 684-5678
  FAX: (703) 683-0378

5-5-92

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No 19026 6702HQ SITE NAME Satralloy LABORATORY S - Cubed DATE SHIPPED 4/28/92

SUPERFUND DU NUMBER _____ EPA RPM or OSC (S M S)/(CES) _____ CERCLIS # OHD010467538 PAGE 1 OF 1

ACTIVITY NUMBER SS1ZZ

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	INORGANIC TRAFFIC REPORT NUMBER	WATER OR LIQUIDS: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG L PES 17144	WATER CHLORINATED PESTICIDES UG L PES17134	TOTAL METALS IN WATER UG L MET111	WATER CYANIDE UG L MIN74919	NITRATE NITRITE MG L MIN7284	AMMONIA MG L MIN7294	RESIDUE, FILTERABLE TDS MG L MIN7362	RESIDUE NON-FILT TSS MG L MIN7372			SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG KG TOX215622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG KG PES[illegible]	SEDIMENTS CHLORINATED PESTICIDES MG KG [illegible]	TOTAL METALS MG KG MET[illegible]	CYANIDE MG KG MIN44930	EP TOXICITY METALS MG KG	AMMONIA MG KG MIN[illegible]				
92ZF90S01	EQK 20		X	X	X	X																				
92ZF90D01	EQK 21		X	X	X	X																				
92ZF90S02	EQK 22		X	X	X	X																				
92ZF90S03	EQK 23		X	X	X	X																				
92ZF90S04	EQK 24		X	X	X	X																				
92ZF90R01	EQK 25		X	X	X	X																				

JUN 05 1992

A. D. Harris Esat

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable): 6702 HQ

Case No.: 19026

1. Project Code / Account Code	~~19026~~ 4/28/92
2. Region No.	5
Sampling Co.	PRC
4. Date Shipped	4/28/92
Carrier	Federal Express
Regional Information	TFA102
Sampler (Name)	R. Baker
Airbill Number	2271398636
Non-Superfund Program	
Sampler Signature	[signature]
5. Ship To	S-Cubed, 3398 Carmel Mtn. Rd, San Diego, CA 92121
ATTN:	Joann Wilkinson
Site Name	Satralloy
City, State	Steubenville, OH
Site Spill ID	SS1ZZ

3. Type of Activity: Lead / Pre-Remedial / Remedial / Removal

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

6. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. $NaHSO_4$ 4. H_2SO_4 5. Other (Specify) 6. Ice only N. Not preserved

7. Sample Description (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify) Drinking Water

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
EQK20	4/28/92 ~~008~~ B	L	G	1	X				5-046639 - 046647	RW-1	4/28/92 1255	RB	92ZF90S01	
EQK20	↓	↓	↓	N		X	~~X~~ CPE 4/28/92		5-046648, 5-046649	RW-1	4/28/92 1255	↓	92ZF90S01	
EQK20	↓	↓	↓	N			X		5-046650, 5-046651	RW-1	4/28/92 1255	↓	92ZF90S01	
EQK21	↓	↓	↓	1	X				5-046658 - 046660	RW-1D	4/28/92 1255	↓	92ZF90D01	D (EQK20)
EQK21	↓	↓	↓	N		X			5-046661, 5-046662	RW-1D	4/28/92 1255	↓	92ZF90D01	D (EQK20)
EQK21	↓	↓	↓	N			X		5-046663, 5-046664	RW-1D	4/28/92 1255	↓	92ZF90D01	D (EQK20)

Shipment for Case complete? (Y/N)	Page 1 of ____	Sample used for a spike and/or duplicate	Additional Sampler Signatures	Chain of Custody Seal Number
		EQK20		157423, 157424

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Coppel	Christopher P. Coppel	4/28/92 17:30	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-1

O 02240

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements

- Please indicate sample to spike and/or duplicate.
- Ship medium and high concentration samples in paint cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
- Additional sample volume not required for method OLC01.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle of each sample container with custody seals.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

3. Sample Shipment Reporting

- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

  Required information:

  Case (and/or SAS) Number
  Date shipped
  Number of samples by concentration and matrix
  Carrier and airbill number
  Next planned shipment

  Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

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  Sample Management Office
  P.O. Box 818
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  Phone: (703) 557-2490
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  FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable): 6702 HQ

Case No.: 19026

1. Project Code	~~19026~~ 4/28/92 CLH
Account Code	
2. Region No.	5
Sampling Co.	PRC
4. Date Shipped	4/28/92
Carrier	Federal Express
Regional Information	TFA 102
Sampler (Name)	R. Baker
Airbill Number	2271398673
Non-Superfund Program	
Sampler Signature	[signature]
Site Name	Satralloy
City, State	Steubenville, OH
Site Spill ID	SSI22

3. Type of Activity: Lead / Pre-Remedial / Remedial / Removal

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Ship To: S-Cubed, 3398 Carmel Mtn. Rd., San Diego, CA 92121
ATTN: Joann Wilkinson

6. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. $NaHSO_4$
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

7. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify) Drinking Water

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
EQK22	CLH ~~4/28~~ 8	L	G	1	X				5-046668-046670	RW-2	4/28/92 1200	RB	922F90S02	
EQK22	↓	↓	↓	N		X			5-046671, 5-046672	RW-2	4/28/92 1200	↓	922F90S02	
EQK22	↓	↓	↓	N			X		5-046673, 5-046674	RW-2	4/28/92 1200	↓	922F90S02	
EQK23	8	L	G	1	X				5-046678, 046680	RW-3	4/28/92 1630	↓	922F90S03	
EQK23	↓	↓	↓	N		X			5-046681, 5-046682	RW-3	4/28/92 1630	↓	922F90S03	
EQK23	↓	↓	↓	N			X		5-046683, 5-046684	RW-3	4/28/92 1630	↓	922F90S03	

Shipment for Case complete? (Y/N)	Page 1 of ____	Sample used for a spike and/or duplicate	Additional Sampler Signatures	Chain of Custody Seal Number
		EQK 20		157421, 157422

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature)
☐ Declined

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 02238

Org-1

Organic Sample Collection Requirements

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Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed In Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
     Required information:
     - Case (and/or SAS) Number
     - Date shipped
     - Number of samples by concentration and matrix
     - Carrier and airbill number
     - Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable): 6702HQ

Case No.: 19026

1. ~~Project Code~~ SPC 1902	Account Code	2. Region No. 5	Sampling Co. PRC	4. Date Shipped 4/28/92	Carrier Federal Express
Regional Information TFA 102		Sampler (Name) R. Baker		Airbill Number 2271398625	
Non-Superfund Program		Sampler Signature [signature]		5. Ship To S-Cubed 3398 Carmel Mtn. Rd. San Diego, CA 92121 ATTN: Joann Wilkinson	
Site Name Satrallay		3. Type of Activity: Lead / Pre-Remedial / Remedial / Removal — SF [X], PRP, ST, FED; PA, SSI [X], LSI; RIFS, RD, RA, O&M, NPLD; CLEM, REMA, REM, OIL, UST			
City, State Steubenville, OH	Site Spill ID SS122				

6. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. $NaHSO_4$ 4. H_2SO_4 5. Other (Specify) 6. Ice only N. Not preserved

7. Sample Description (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify) Drinking Water

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
EQK24	B	L	G	1	X				5-046688-046690	RW-4	4/28/92 1145	PB	92ZF90S04	
EQK24	↓	↓	↓	N		X			5-046691, 5-046692	RW-4	4/28/92 1145	↓	92ZF90S04	
EQK24	↓	↓	↓	N			X		5-046693, 5-046694	RW-4	4/28/92 1145	↓	92ZF90S04	
EQK25	↓	↓	↓	1	X				5-046698, 046700	B-1	4/28/92 1345	↓	92ZF90R01	B
EQK 25	↓	↓	↓	N		X			5-046701, 5-046702	B-1	4/28/92 1345	↓	92ZF90R01	B
EQK 25	↓	↓	↓	N			X		5-046703, 5-046704	B-1	4/28/92 1345	↓	92ZF90R01	B

Shipment for Case complete? (Y/N)	Page 1 of ____	Sample used for a spike and/or duplicate	Additional Sampler Signatures	Chain of Custody Seal Number
(N)		~~EQK02~~ EQK20 RB 5/6/92		157425, 157426

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/28/92 1730	Christopher P. Cappel	Christopher P. Cappel	4/28/92 1730	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 02239

Org-1

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements

- Please indicate sample to spike and/or duplicate.
- Ship medium and high concentration samples in paint cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
- Additional sample volume not required for method OLC01.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle of each sample container with custody seals.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

3. Sample Shipment Reporting

- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
  Required information:
  - Case (and/or SAS) Number
  - Date shipped
  - Number of samples by concentration and matrix
  - Carrier and airbill number
  - Next planned shipment

  Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

  USEPA Contract Laboratory Program
  Sample Management Office
  P.O. Box 818
  Alexandria, VA 22313
  Phone: (703) 557-2490
  (703) 684-5678
  FAX: (703) 683-0378

SAMPLE SUMMARY

S-Cubed Reference No.32380-02, SDG No.2900, Project Name:SAS 6702 HQ / Case 19026

Sample ID	S-Cubed Number	Date Received	Sample Type	Analysis										
				A	B	C	D	E	F	G	H	I	J	K
PW015	2900-01	04/22/92	WATE	1										
PU833	2900-02	04/22/92	WATE		1									
PR886	2900-03	04/22/92	WATE			1								
EQK20	2906-01	04/29/92	WATE	1	1	1								
EQK21	2906-02	04/29/92	WATE	1	1	1								
EQK22	2906-03	04/29/92	WATE	1	1	1								
EQK23	2906-04	04/29/92	WATE	1	1	1								
EQK24	2906-05	04/29/92	WATE	1	1	1								
EQK25	2906-06	04/29/92	WATE	1	1	1								

ANALYSIS KEY:

A=VOAOLC
B=SVOAOLC
C=OCPOLC

B

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900

	EPA SAMPLE NO.	SMC1 BFB #	OTHER	TOT OUT
001	PW015	105		0
002	EQK20	106		0
003	EQK21	89		0
004	EQK22	100		0
005	EQK23	107		0
006	EQK24	106		0
007	EQK25	104		0
008	LCSW2900	95		0
009	VBLK01	102		0
010	VBLK02	102		0
011	VSBLK01	103		0
012				
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029				
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	QC LIMITS
SMC1 BFB = Bromofluorobenzene	(80-120)

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

L A B C O N T R O L S A M P L E P E R C E N T - R E C O V E R Y

(LAB FILE ID: LBM01)

CLIENT : REG.5 LAB NAME: S-CUBED.
PROJECT : 6702HQ/19026 LAB CODE: S3
SDG No : 2900

COMPOUND	SPIKE (UG/L)	LCS CONC. (UG/L)	LCS % REC	% REC LIMIT
VINYL CHLORIDE	5.00	5.56	111	60-140
1,2-DICHLOROETHANE	5.00	4.53	91	60-140
CARBON TETRACHLORIDE	5.00	4.61	92	60-140
1,2-DICHLOROPROPANE	5.00	4.71	94	60-140
CIS-1,3-DICHLOROPROPENE	3.15	2.72	86	60-140
TRICHLOROETHENE	5.00	4.89	98	60-140
1,1,2-TRICHLOROETHANE	5.00	4.28	86	60-140
BENZENE	5.00	4.66	93	60-140
TETRACHLOROETHENE	5.00	4.74	95	60-140
1,2-DIBROMOETHANE	5.00	4.27	85	60-140
BROMOFORM	5.00	3.96	79	60-140
1,4-DICHLOROBENZENE	5.00	4.41	88	60-140

COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab File ID: VBA30 Lab Sample ID: VBLK01
Date Analyzed: 4-30-92 Time Analyzed: 1248
GC Column: CAP ID: 0.53(mm) Heated Purge: (Y/N) N
Instrument ID: HP4

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
001	VSBLK01	VSBLK01	HBB89	1326
002	EQK20	2906-01	EQK20	1600
003	EQK21	2906-02	EQK21	1639
004	EQK22	2906-03	EQK22	1717
005	EQK23	2906-04	EQK23	1756
006	EQK24	2906-05	EQK24	1834
007	EQK25	2906-06	EQK25	1913
008	PW015	2900-01	LAA30	1951
009				
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COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab File ID: VAM01 Lab Sample ID: VBLK02
Date Analyzed: 5-1-92 Time Analyzed: 1911
GC Column: CAP ID: 0.53(mm) Heated Purge: (Y/N) N
Instrument ID: HP4

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
001	LCSW2900	LCSW2900	LBM01	2028
002				
003				
004				
005				
006				
007				
008				
009				
010				
011				
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013				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VSBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: HBB89
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	9	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VSBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: HBB89
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
VSBLK01

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VBA30
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VBA30
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
VBLK01

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
2.				
3.				
4.				
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VAM01
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 5/1/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: VBLK02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: VAM01
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 5/1/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
VBLK02

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK20

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN SILOXANE	VOA	20-29	3 J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK21

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.5	J
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK22

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	8	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK23

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.6	J
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK24

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 25.00 g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

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Sample Number
EQK25

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
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2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2FP #	S6 TBP #	TOT OUT
001	PU833	86	79	97	103	105	99	0
002	EQK20	76	70	85	80	86	83	0
003	EQK21	78	71	91	91	94	88	0
004	EQK22	72	68	86	84	87	84	0
005	EQK23	76	70	84	86	89	84	0
006	EQK24	76	70	89	84	86	88	0
007	EQK25	70	67	84	74	80	78	0
008	EBW0504	83	68	89	95	99	92	0
009	LCSW0504	83	73	94	95	93	88	0
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	QC LIMITS
S1 NBZ = Nitrobenzene-d5	(40-112)
S2 FBP = 2-Fluorobiphenyl	(42-110)
S3 TPH = Terphenyl-d14	(24-140)
S4 PHL = Phenol-d5	(17-113)
S5 2FP = 2-Fluorophenol	(16-110)
S6 TBP = 2,4,6-Tribromophenol	(18-126)

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

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LCSW0504

Lab Name: S-Cubed Contract: 68-D9-0135

Lab Code: 53 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Lab Sample ID: LCSW0504 LCS Lot No.: — 3651

Lab File ID: LCSY5 Date Extracted: 05/04/92

LCS Aliquot: 500 (uL) Date Analyzed: 05/06/92

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1

Injection Volume: 1 (uL) pH: NA

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Phenol	40×10^3	32×10^3	80	44-120
bis(2-Chloroethyl)ether	20	18×10^3	90	64-110
2-Chlorophenol	40	32×10^3	80	58-110
N-Nitroso-di-n-propylamine	20	16×10^3	81	34-102
Hexachloroethane	20	9×10^3	47	32-77
Isophorone	20	15×10^3	75	49-110
1,2,4-Trichlorobenzene	20	13×10^3	66	44-96
Naphthalene	20	15×10^3	75	56-160
4-Chloroaniline	40	28×10^3	71	35-98
2,4,6-Trichlorophenol	40	29×10^3	73	65-110
2,4-Dinitrotoluene	20	12×10^3	62	61-140
Diethylphthalate	20	17×10^3	84	76-104
N-Nitrosodiphenylamine	20	16×10^3	82	35-120
Hexachlorobenzene	20	17×10^3	83	30-95
Benzo(a)pyrene	20	17×10^3	84	55-92

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 15 total.

COMMENTS: % REC CALC ON UNROUNDED VALUES.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

EBW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab File ID: EBY05 Lab Sample ID: EBW0504
Instrument ID: HP1 Date Extracted: 5-4-92
Matrix: (soil/water) WATER Date Analyzed: 5-5-92
Level: (low/med) LOW Time Analyzed: 1534

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
001	PU833	2900-02	PU833	5-5-92
002	EQK20	2906-01	EQK20	5-5-92
003	EQK21	2906-02	EQK21	5-5-92
004	EQK22	2906-03	EQK22	5-5-92
005	EQK23	2906-04	EQK23	5-5-92
006	EQK24	2906-05	EQK24	5-6-92
007	EQK25	2906-06	EQK25	5-6-92
008	LCSW0504	LCSW0504	LCSY5	5-6-92
009				
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: EBW0504
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EBY05
Level: (low/med) LOW Date Received:
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: EBW0504
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EBY05
Level: (low/med) LOW Date Received:
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EBW0504

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK20
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK20

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	BNA		
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK21
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
EQK21

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	BNA		
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK22
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK 22

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	BNA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK23
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK 23

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	BNA		
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK24
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

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Sample Number
EQK24

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	BNA		
2.				
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: EQK25
Level: (low/med) LOW Date Received: 4/29/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EQK25

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	BNA		
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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28.				
29.				
30.				

068

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
001	PR886	71.1	73.1	92.8	87.4			0
002	EQK20	60.4	75.5	94.2	96.7			0
003	EQK21	68.6	69.4	107	90.4			0
004	EQK22	56.2 *	172 *	94.7	81.5			2
005	EQK23	63.0	85.8	105	96.2			0
006	EQK24	62.5	70.3	100	93.7			0
007	EQK25	67.7	68.5	104	86.9			0
008	EBW0430	74.8	77.4	94.2	84.7			0
009	LCSW0430B	71.8	72.4	79.7	73.1			0
010								
011								
012								
013								
014								
015								
016								
017								
018								
019								
020								
021								
022								
023								
024								
025								
026								
027								
028								
029								
030								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

EBW0430

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Lab Sample ID: EBW0430 Lab File ID: E0501-2DB608027
Matrix: (soil/water) WATER Extraction:(SepF/Cont/Sonc) CONT
Sulfur Cleanup: (Y/N) N Date Extracted: 4-30-92
Date Analyzed (1): 5-2-92 Date Analyzed (2): 5-2-92
Time Analyzed (1): 0830 Time Analyzed (2): 0911
Instrument ID (1): 2 Instrument ID (2): 2
GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

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

	EPA SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
001	PR886	2900-03	5-2-92	5-2-92
002	EQK20	2906-01	5-2-92	5-2-92
003	EQK21	2906-02	5-2-92	5-2-92
004	EQK22	2906-03	5-2-92	5-2-92
005	EQK23	2906-04	5-2-92	5-2-92
006	EQK24	2906-05	5-2-92	5-2-92
007	EQK25	2906-06	5-2-92	5-2-92
008	LCSW0430B	LCSW0430B	5-2-92	5-2-92
009				
010				
011				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				
024				
025				
026				

COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBW0430

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: EBW0430
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608027
%Moisture: 0.00 decanted: (Y/N) N Date Received:
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK20

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608031
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.18 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK21

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608032
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.26 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK22

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608033
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.20 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK23

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-04
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608034
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.22 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK24

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-05
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608035
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 7.61 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK25

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2906-06
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608036
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/29/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 9.25 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No._____ CERCLIS No. (OH)

Case No. 19026 SAS6702 49 Site Name Location: Satralloy

Contractor or EPA Lab: S-Cubed Data User: PRC

No. of Samples: 6 Date Samples or Data Received: 5-13-92

Have Chain-of-Custody records been received? YES___ NO ✓
Have traffic reports or packing lists been received? YES___ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES___ NO___
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO___
No. of samples claimed: 6 No. of samples received: 6

Received by: Lynette Burnette Date: 5-13-92

Received by LSSS: DMM Date: 5-13-92

Review started: 5/19/92 Reviewer Signature: Stephanie N. Tobin

Total time spent on review: 10 Date review completed: 5/21/92

Copied by: Eric Date: 5-21-92

Mailed to user by: Adrienne Harris Date: 5-26-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by:_____ Date:_____

Data review received by:_____ Date:_____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date:_____

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 19026 SDG No. EQK20 SDG Nos. To Follow _____ _____ _____ SAS No. 670214 Date Recvd 5/13/92

EPA Lab ID: S-Cubed

Lab Location: San Diego, CA

Region: V Audit No.: _____

Re-Submitted CSF? Yes___ No___

Box No(s): _____

COMMENTS:

1+2 There were no custody seals present at time of arrival

Over for additional comments.

ITEMS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?		✓	
2. Intact upon receipt?		✓	
FORM DC-2			
3. Numbering scheme accurate?	✓		
4. Are enclosed documents listed?	✓		
5. Are listed documents enclosed?	✓		
FORM DC-1			
6. Present?	✓		
7. Complete?	✓		
8. Accurate?	✓		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	✓		
10. Dated?	✓		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	✓		
12. Dated?	✓		
AIRBILLS/AIRBILL STICKER			
13. Present?	✓		
14. Signed?	✓		
15. Dated?	✓		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	✓		–
17. Present?	✓		–
ALL DOCUMENTS			
18. Activities identified?	✓	–	
19. Legible?	✓		
20. Original?	✓		
20a. If "NO," does the copy indicate where original documents are located?			

Received by: Lynette Burnett — LYNETTE BURNETT / DATA Coord — Date 5/13/92

Audited by: Stephanie N. Tobin — STEFFANIE N. TOBIN / Organic Data Review — Date 5/20/92

Audited by: _____ — _____ — Date __/__/__

Signature — Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ___/___/___ Date Entered: ___/___/___ Date Reviewed: ___/___/___

Entered by: _____ _____

Reviewed by: _____ _____

Signature — Printed Name/Title

DC-2 ___

LOW CONCENTRATION WATER FOR ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME S-CUBED CITY/STATE SAN DIEGO, CALIFORNIA

CASE NO. 19026 SDG NO. 2900 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. 6702HR

CONTRACT NO. 68D90027 SOW NO. OLC01.0

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II, PARAGRAPH 5, and SECTION III, PARAGRAPH 16.)

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not number)	—	—	DM	
2. SDG Case Narrative	A			✓
3. Traffic Report (SAMPLE SUMMARY)	B			✓
4. Volatiles Data (VOL 1/3)				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II LCV)	001	—	DM	✓
Lab Control Sample Recovery (From III LCV)	002	—	DM	✓
Method Blank Summary (Form IV LCV)	003	004	DM	✓
Tuning and Mass Calibration (Form V LCV)	005	007	DM	✓
b. Sample Data	010	056	DM	✓
TCL Results - (Form I LCV)			DM	✓
Tentatively Identified Compounds (Form I LCV-TIC)			DM	✓
Reconstructed total ion chromatograms (RIC) and Quantitation Reports for each sample			DM	✓
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			DM	✓
Mass spectra of all reported TICs with three best library matches			DM	✓
c. Standards Data (All Instruments)				
Initial Calibration Summary (Form VI LCV)	057	—	DM	✓
RICs and Quan Reports for all Standards	058	067	DM	✓
Continuing Calibration (Form VII LCV)	068; 071		DM	✓
RICs and Quan Reports for all Standards	069-070; 072-073		DM	✓
Internal Standard Area and RT Summary (Form VIII LDV)	008	009	DM	✓
d. QC Data				
BFB	074	079	DM	✓
Blank Data	080	096	DM	✓
LCS Data	097	100	DM	✓
PES Data	—			
5. Semivolatiles Data (VOL 2/3)				
a. QC Summary	—			
Surrogate Percent Recovery Summary (Form II LCSV)	001	—	DM	✓
Lab Control Sample Recovery (Form III LCSV)	002	—	DM	✓
Method Blank Summary (Form IV LCSV)	003	—	DM	✓
Tuning and Mass Calibration (Form V LCSV)	004	005	DM	✓

LOW CONCENTRATION WATER FOR ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 19026 SDG NO. 2900 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. 6702HQ

	PAGE NOs FROM	TO	CHECK LAB	EPA
5. Semivolatiles Data (cont.)				
b. Sample Data	008	073	DM	✓
TCL Results (Form I LCSV)				
Tentatively Identified Compounds (Form I LCSV-TIC)			DM	✓
Reconstructed total ion chromatograms (RIC) and Quantitation Reports for each sample			DM	✓
For each sample:				
Raw spectra and background-subtracted mass spectra of TCL compounds			DM	✓
Mass spectra of TICs with three best library matches GPC chromatograms (if GPC performed)			DM	✓
c. Standards Data (All Instruments)				
Initial Calibration Summary (Form VI LCSV)	074	075	DM	✓
RICs and Quan Reports for all Standards	076	090	DM	✓
Continuing Calibration (Form VII LCSV)	091	092	DM	✓
RICs and Quan Reports for all Standards	093	095	DM	✓
Internal Standard Area and RT Summary (Form VIII LCSV)	006	007	DM	✓
d. QC Data				
DFTPP	096	099	DM	✓
Blank Data	100	107	DM	✓
LCS Data	108	114	DM	✓
PES Data	—	—	—	—
6. Pesticides (VOL 3/3)				
a. QC Summary	—	—	—	—
Surrogate Percent Recovery Summary (Form II LCP)	001	—	DM	✓
Lab Control Sample Recovery (Form III LCP)	002	—	DM	✓
Method Blank Summary (Form IV LCP)	003	—	DM	✓
b. Sample Data	004	044	DM	✓
TCL Results - Organic Analysis Data Sheet (Form I LCP)			DM	✓
Chromatograms (Primary Column)			DM	✓
Chromatograms from second GC column confirmation			DM	✓
GC Integration report or data system printout and calibration plots			DM	✓
Manual work sheets			DM	✓
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			DM	✓

LOW CONCENTRATION WATER FOR ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 19026 SDG NO. 2900 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. 6702 HQ

	PAGE NOs FROM	TO	CHECK LAB	EPA
6. Pesticides (cont.)				
c. Standards Data				
Initial Calibration Data (Form VI LCP)	045	053	DM	✓
Calibration Verification (Form VII LCP)	054	063	DM	✓
Pesticides Analytical Sequence (Form VIII, LCP)	064	067	DM	✓
PesticideFlorisil Cartridge Check (Form IX, LCP)	068	–	DM	✓
Pesticide Identification (Form X LCP)	069	071	DM	✓
Standard chromatograms and data system printout for all Standards	072	159	DM	✓
For pesticides/Aroclors confirmed by GC/MS, copies of spectra for standards used	—			
d. QC Data				
Blank Data	160	166	DM	✓
LCS Data	167	173	DM	✓
PES Data	—			
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	7-1	7-2		✓
	7-3	7-7	DM	✓
Internal sample and sample extract transfer chain-of-custody records	7-8			✓
Screening records	—			
All instrument output, including strip charts from screening activities (describe or list)				
Column / cartrige cleanup worksheet	7-9			✓
8. EPA Shipping/Receiving Documents				
Airbills (No. of shipments 2)	8-1	8-2	DM	✓
Chain-of-Custody Records	8-3	8-5	DM	✓
Sample Tags	8-6	8-53	DM	✓
Sample Log-In Sheet (Lab & DC1)	8-54	8-57	DM	✓
SDG Cover Sheet	—			
Miscellaneous Shipping/Receiving Records (describe or list)				
Post office to addressee.	8-58		DM	✓
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
– PE Amples for Reg V Sheet	9-1	– DM		✓
– Internal Traffic Log	9-2	9-7	DM	✓

FORM DC-2-3

OLC01.0

LOW CONCENTRATION WATER FOR ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 19026 SDG NO. 2900 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. 67021HQ

	PAGE NOs FROM	TO	CHECK LAB	EPA
10. Other Records (describe or list)				
Telephone Communication Log				
- Report Review	10-1	10-6	DM	✓
- Note in narrative	10-7			✓

11. Comments: _____

Completed by: (CLP Lab) [signature] (Signature) FRI NGUYEN/SR TECS (Printed Name/Title) 5/12/92 (Date)

Audited by: (EPA) Stephanie N. Tobin (Signature) STEPHANIE N. TOBIN/ORGANIC DATA REVIEW (Printed Name/Title) 5/20/92 (Date)

ESAT / LOCKHEED

FORM DC-2-4

OLC01.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW015

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2900-01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: LAA30
Level: (low/med) LOW Date Received: 4/22/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	10	
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	7	
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	0.5	J
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	8	
79-00-5	1,1,2-Trichloroethane	8	
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	2	
100-42-5	Styrene	13	
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW015

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2900-01
Sample wt/vol: 25.00 g/ml) ML Lab File ID: LAA30
Level: (low/med) LOW Date Received: 4/22/92
%Moisture: not dec. 100.00 Date Analyzed: 4/30/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
PW015

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND.	VOA		
2.				
3.				
4.				
5.				
6.				
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8.				
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PU833

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2900-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: PU833
Level: (low/med) LOW Date Received: 4/22/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	18	
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	12	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	12	
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	11	
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenyl ether	7	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PU833

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2900-02
Sample wt/vol: 1000 (g/ml) ML Lab File ID: PU833
Level: (low/med) LOW Date Received: 4/22/92
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/5/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	28	
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	8	
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	6	
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
PU833

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	26.20	12 J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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10.				
11.				
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28.				
29.				
30.				

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PR886

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: 2900-03
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E0501-2DB608030
%Moisture: 100.00 decanted: (Y/N) N Date Received: 4/22/92
Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 4/30/92
Concentrated Extract Volume: 2000 (uL) Date Analyzed: 5/2/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.012	
319-85-7	beta-BHC	0.017	P
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.040	
1024-57-3	Heptachlor epoxide	0.076	
959-98-8	Endosulfan I	0.096	
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.037	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
111-11-3	Endrin Aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.200	U
11104-28-2	Aroclor-1221	0.200	U
11141-16-5	Aroclor-1232	0.400	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.236	P
11096-82-5	Aroclor-1260	0.200	U

VOLUME 1 OF 3

REFERENCE NO.:	32380-02, SDG 2900
NARRATIVE CASE:	19026 **SAS 6702 HQ**
VIAR PRIME CONTRACT NO.:	68-D9-0135
S3 SUBCONTRACT NO:	S3-0135
ANALYSIS:	VOLATILES

5LCA

LOW CONC. WATER VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Lab File ID: TCA29 BFB Injection Date: 4/29/92

Instrument ID: HP4 BFB Injection Time: 1231

GC Column: QUADREX ID: 0.53 mm

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.1
75	30.0 - 66.0% of mass 95	47.7
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	96.9
175	4.0 - 9.0% of mass 174	7.6 (7.8)1
176	93.0 - 101.0% of mass 174	96.0(99.0)1
177	5.0 - 9.0% of mass 176	6.5 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

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	VSTD005	DBA29	DBA29	4/29/92	1353
02	VSTD025	PLA25	PLA25	4/29/92	1517
03	VSTD001	PLA01	PLA01	4/29/92	1555
04	VSTD010	PLA10	PLA10	4/29/92	1634
05	VSTD002	PLA02	PLA02	4/29/92	1712
06					

FORM V LCV 4/90

5LCA

LOW CONC. WATER VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Lab File ID: TAA30 BFB Injection Date: 4/30/92

Instrument ID: HP4 BFB Injection Time: 1010

GC Column: QUADREX ID: 0.53 mm

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.2
75	30.0 - 66.0% of mass 95	46.4
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	99.3
175	4.0 - 9.0% of mass 174	7.9 (8.0)1
176	93.0 - 101.0% of mass 174	94.3(94.9)1
177	5.0 - 9.0% of mass 176	6.3 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

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	VSTD005	DBA30	DBA30	4/30/92	1131
02	VBLK01	VBLK01	VBA30	4/30/92	1248
03	VSBLK01	VSBLK01	HBB89	4/30/92	1326
04	EQK20	2906-01	EQK20	4/30/92	1600
05	EQK21	2906-02	EQK21	4/30/92	1639
06	EQK22	2906-03	EQK22	4/30/92	1717
07	EQK23	2906-04	EQK23	4/30/92	1756
08	EQK24	2906-05	EQK24	4/30/92	1834
09	EQK25	2906-06	EQK25	4/30/92	1913
10	PW015	2900-01	LAA30	4/30/92	1951
11					

FORM V LCV 4/90

5LCA
LOW CONC. WATER VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Lab File ID: TAM01 BFB Injection Date: 5/01/92

Instrument ID: HP4 BFB Injection Time: 0953

GC Column: QUADREX ID: 0.53 mm

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.0
75	30.0 - 66.0% of mass 95	54.5
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	96.6
175	4.0 - 9.0% of mass 174	8.0 (8.3)1
176	93.0 - 101.0% of mass 174	93.7(97.0)1
177	5.0 - 9.0% of mass 176	6.2 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

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	VSTD005	DAM01	DAM01	5/01/92	1754
02	VBLK02	VBLK02	VAM01	5/01/92	1911
03	LCSW2900	LCSW2900	LBM01	5/01/92	2028
04					

FORM V LCV 4/90

8LCA

LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Lab File ID (Standard): DBA30 Date Analyzed: 4/30/92

Instrument ID: HP4 Time Analyzed: 1131

GC Column: QUADREX ID: 0.53 mm

		IS1(DFB) AREA #	RT	IS2(CBZ) AREA #	RT	IS3(DCB) AREA #	RT
	12 HOUR STD	77131.	10.20	52687.	16.65	35797.	22.19
	UPPER LIMIT	107983.		73762.		50116.	
	LOWER LIMIT	46279.		31612.		21478.	
	EPA SAMPLE NO.						
01	VBLK01	87391.	10.19	62028.	16.63	40138.	22.18
02	VSBLK01	82814.	10.21	60592.	16.66	34612.	22.18
03	EQK20	79002.	10.21	58985.	16.65	35270.	22.18
04	EQK21	84397.	10.21	61883.	16.65	39253.	22.18
05	EQK22	61073.	10.22	43306.	16.66	25482.	22.19
06	EQK23	87175.	10.21	67566.	16.66	41875.	22.19
07	EQK24	89327.	10.19	63612.	16.64	38992.	22.19
08	EQK25	89217.	10.20	66996.	16.65	41448.	22.20
09	PW015	88375.	10.19	63989.	16.64	43742.	22.19
10							

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +40% of internal standard area.
AREA LOWER LIMIT = -40% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

8LCA

LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Lab File ID (Standard): DAM01 Date Analyzed: 5/01/92

Instrument ID: HP4 Time Analyzed: 1754

GC Column: QUADREX ID: 0.53 mm

		IS1(DFB) AREA #	RT	IS2(CBZ) AREA #	RT	IS3(DCB) AREA #	RT
	12 HOUR STD	72589.	10.23	51294.	16.69	36483.	22.20
	UPPER LIMIT	101625.		71812.		51076.	
	LOWER LIMIT	43553.		30776.		21890.	
	EPA SAMPLE NO.						
01	VBLK02	72609.	10.21	55460.	16.66	32806.	22.21
02	LCSW2900	76939.	10.23	56208.	16.68	35979.	22.20
03							

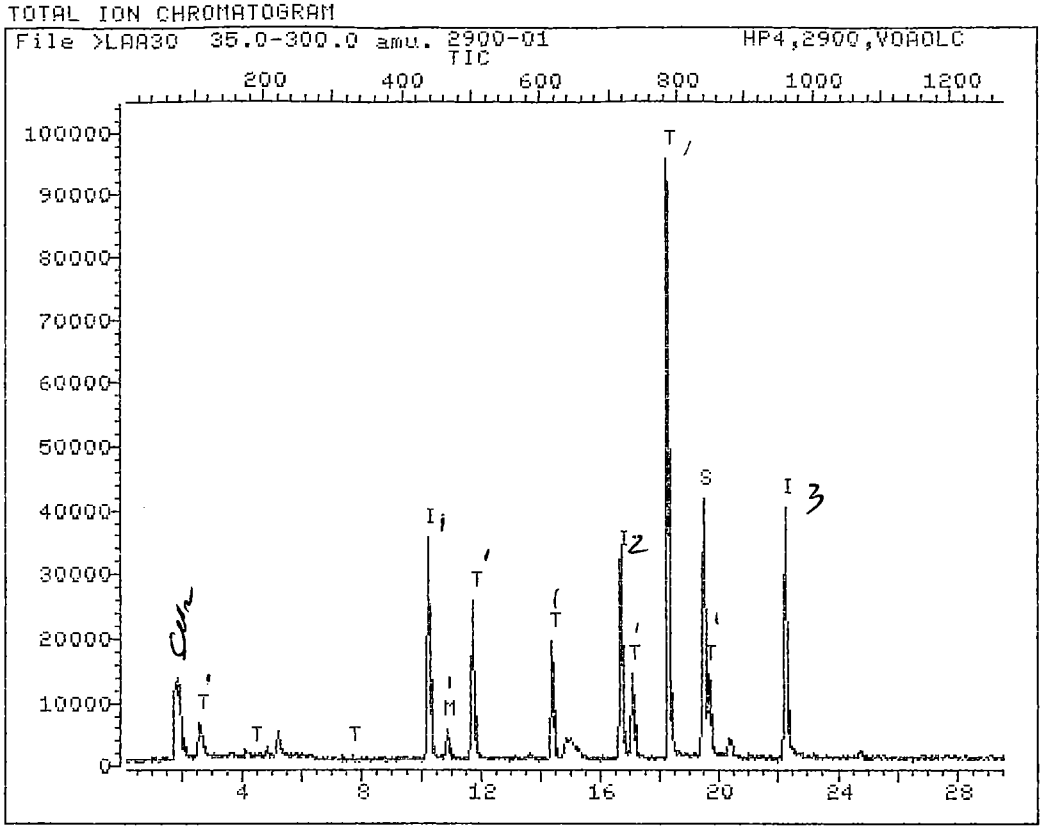
IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +40% of internal standard area.
AREA LOWER LIMIT = -40% of internal standard area.
RT UPPER LIMIT = +0.33 minutes of internal standard RT.
RT LOWER LIMIT = -0.33 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII LCV 4/90

TOTAL ION CHROMATOGRAM



Data File: >LAA30::D3
Name: 2900-01
Misc: HP4,2900,VOAOLC

Quant Output File: ^LAA30::SC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 11:56

Operator ID: HP4A
Quant Time: 920506 12:01
Injected at: 920430 19:51

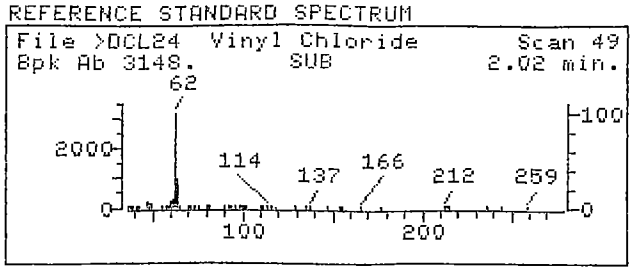
QUANT REPORT

Operator ID: HP4A Quant Rev: 6 Quant Time: 920506 12:01
Output File: ^LAA30::SC Injected at: 920430 19:51
Data File: >LAA30::D3 Dilution Factor: 1.00000
Name: 2900-01
Misc: HP4,2900,VOAOLC

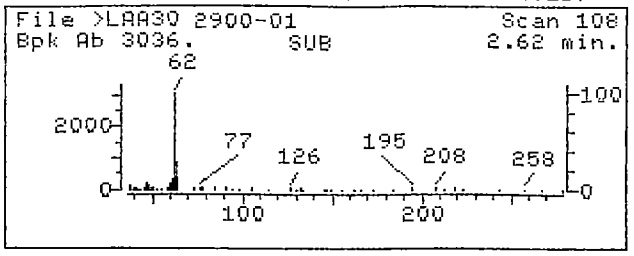
ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 11:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.19	114.0	88375	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	2.62	62.0	28778	9.91	ug/L	89
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	4.44	43.0	170	~~.65~~	~~ug/L~~ 0 5/6/92	85
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	7.71	43.0	241	~~.74~~	~~ug/L~~ 0 5/6/92	63
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.43	174.0	48193	5.25	ug/L	61
18)	*Chlorobenzene-d5	16.64	117.0	63989	5.00	ug/L	95
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	11.71	83.0	52779	6.68	ug/L	89
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	10.84	95.0	4390	.54	ug/L	98
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	14.36	97.0	18082	7.78	ug/L	88
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	19.61	83.0	17023	8.11	ug/L	92
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	17.05	91.0	33041	1.56	ug/L	90
37)	Styrene	18.23	104.0	147484	12.98	ug/L	74
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.19	152.0	43742	5.00	ug/L	83
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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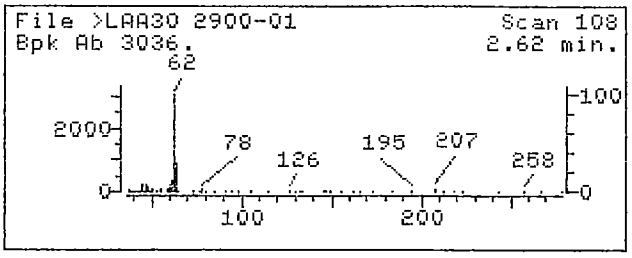
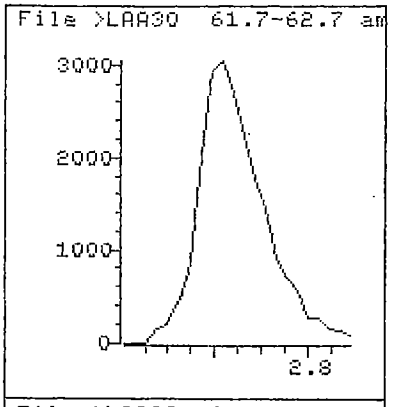
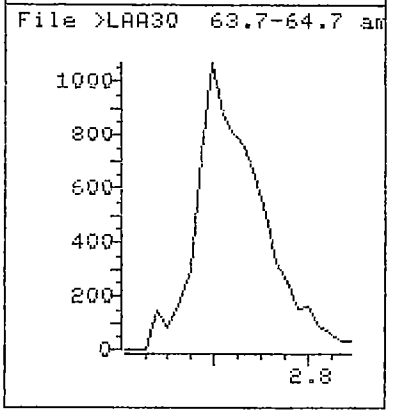






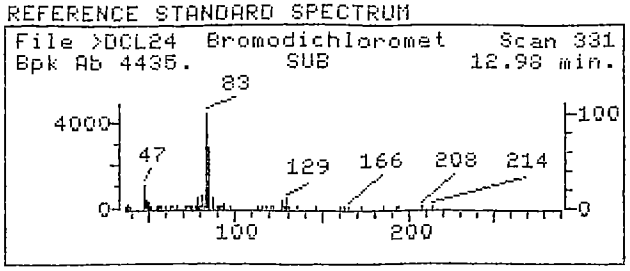
Data File: >LAA30::D3
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01
Injected at: 920430 19:51

Quant Output File: ^LAA30::SC

Quant ID File: IDCAP::QT
Last Calibration: 920506 11:56

Compound No: 4
Compound Name: Vinyl Chloride
Scan Number: 108
Retention Time: 2.62 min.
Quant Ion: 62.0
Area: 28778
Concentration: 9.91 ug/L
q-value: 89

REFERENCE STANDARD SPECTRUM



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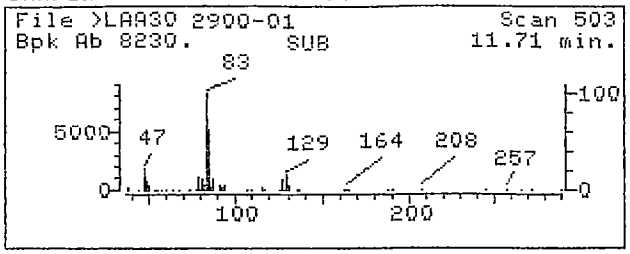

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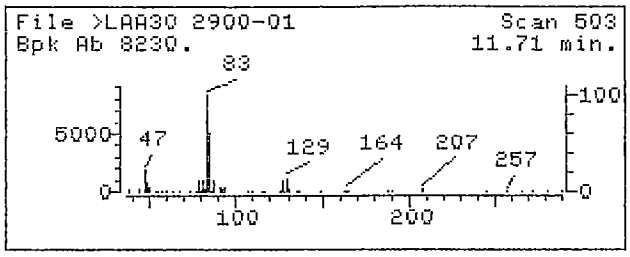
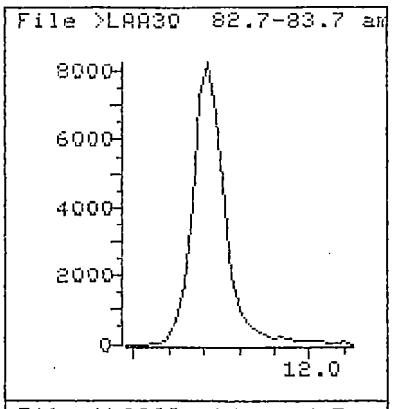
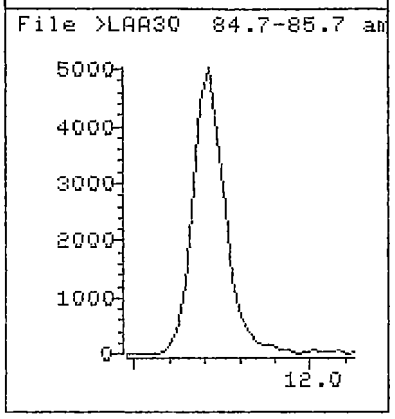


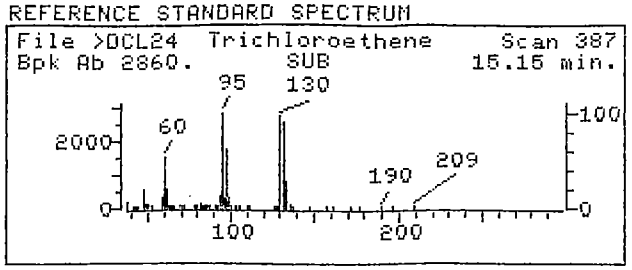




Data File: >LAA30::D3 Quant Output File: ^LAA30::SC
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01 Quant ID File: IDCAP::QT
Injected at: 920430 19:51 Last Calibration: 920506 11:56

Compound No: 21
Compound Name: Bromodichloromethane
Scan Number: 503
Retention Time: 11.71 min.
Quant Ion: 83.0
Area: 52779
Concentration: 6.68 ug/L
q-value: 89

REFERENCE STANDARD SPECTRUM



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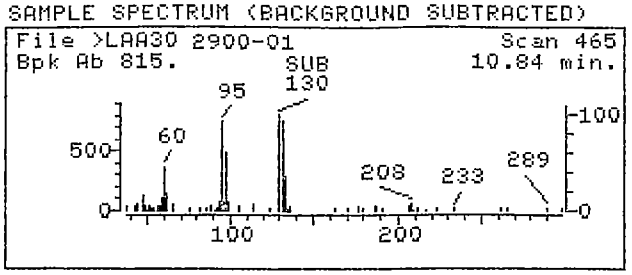

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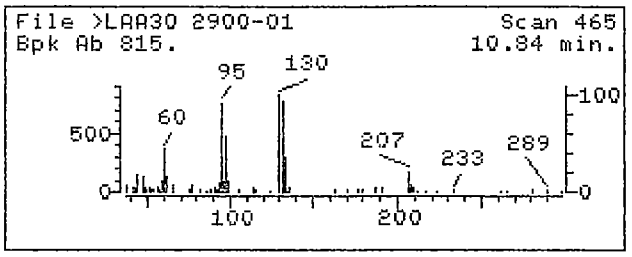
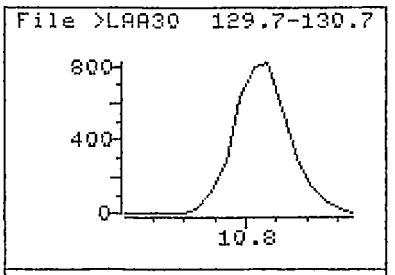
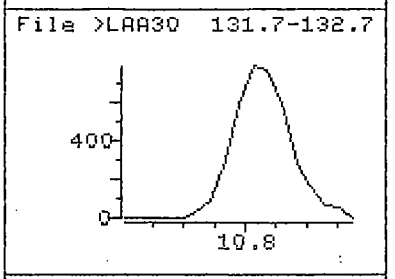
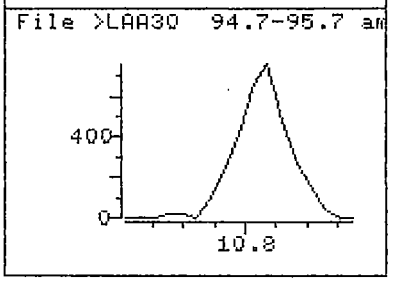








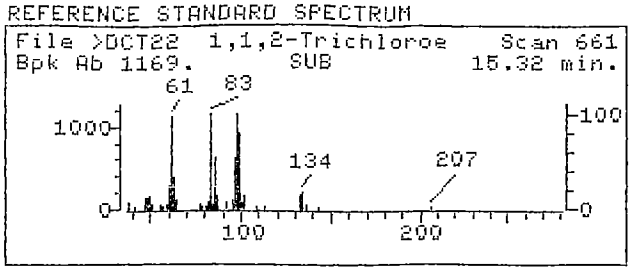
Data File: >LAA30::D3
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01
Injected at: 920430 19:51

Quant Output File: ^LAA30::SC

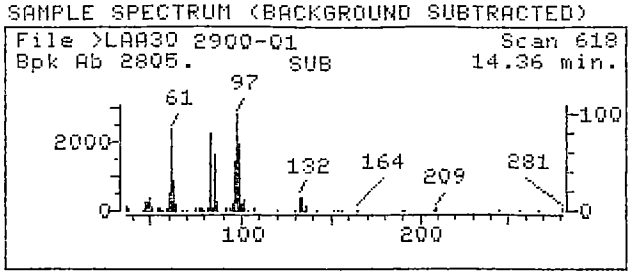
Quant ID File: IDCAP::QT
Last Calibration: 920506 11:56

Compound No: 24
Compound Name: Trichloroethene
Scan Number: 465
Retention Time: 10.84 min.
Quant Ion: 95.0
Area: 4390
Concentration: .54 ug/L
q-value: 98

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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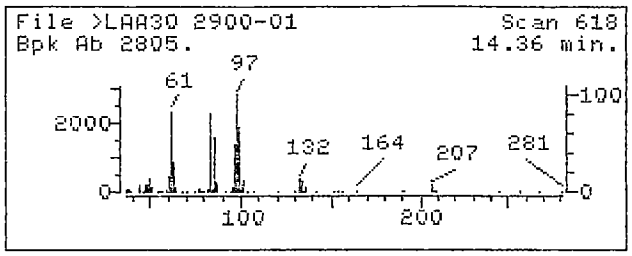

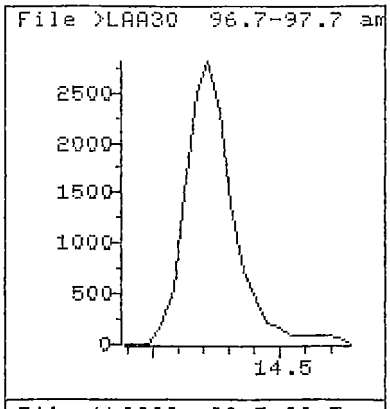

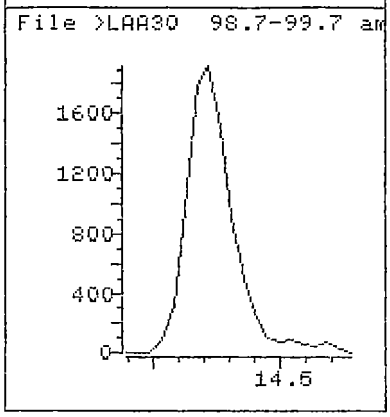

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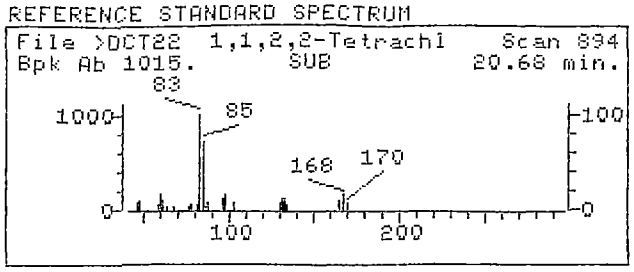
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01 Quant ID File: IDCAP::QT
Injected at: 920430 19:51 Last Calibration: 920506 11:56

Compound No: 26
Compound Name: 1,1,2-Trichloroethane
Scan Number: 618
Retention Time: 14.36 min.
Quant Ion: 97.0
Area: 18082
Concentration: 7.78 ug/L
q-value: 88

REFERENCE STANDARD SPECTRUM



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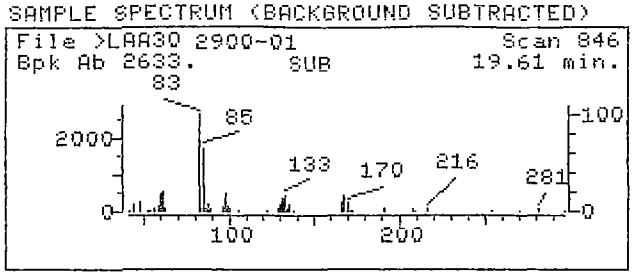
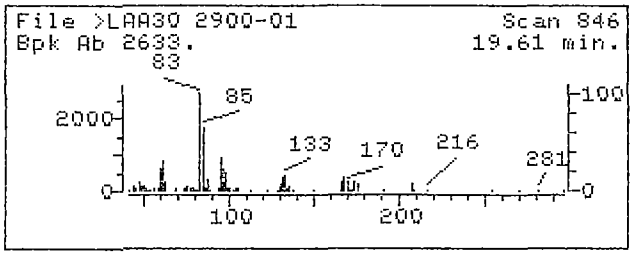
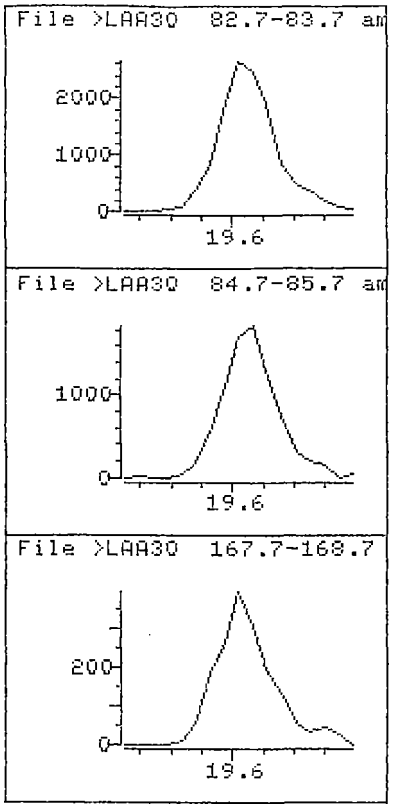


SAMPLE SPECTRUM (UNALTERED)

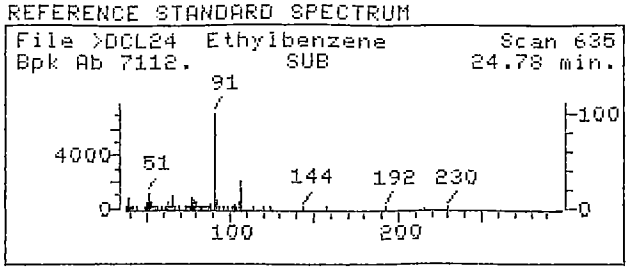




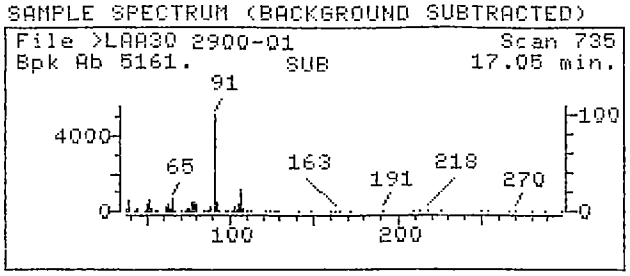
Data File: >LAA30::D3 Quant Output File: ^LAA30::SC
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01 Quant ID File: IDCAP::QT
Injected at: 920430 19:51 Last Calibration: 920506 11:56

Compound No: 32
Compound Name: 1,1,2,2-Tetrachloroethane
Scan Number: 846
Retention Time: 19.61 min.
Quant Ion: 83.0
Area: 17023
Concentration: 8.11 ug/L
q-value: 92

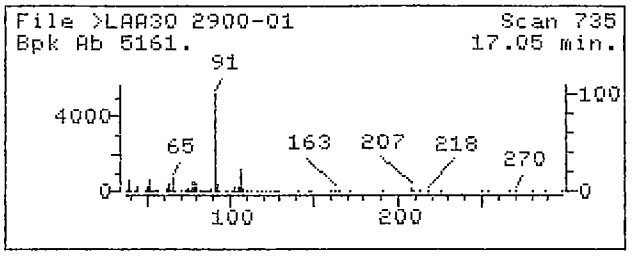
REFERENCE STANDARD SPECTRUM

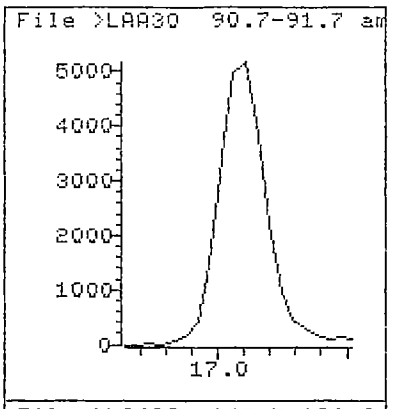


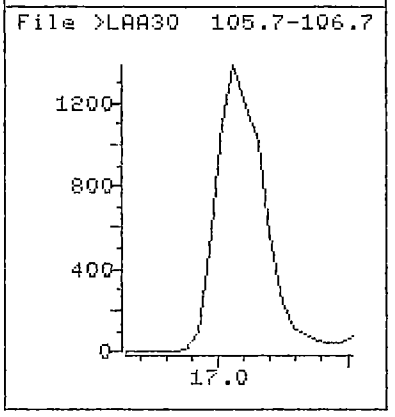
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







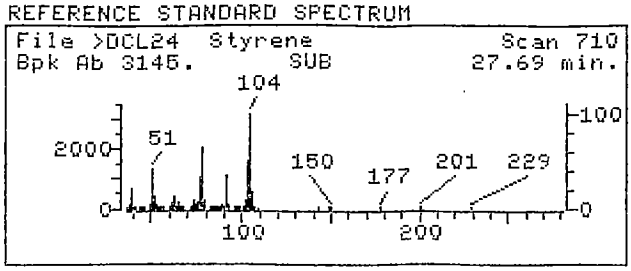
Data File: >LAA30::D3
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01
Injected at: 920430 19:51

Quant Output File: ^LAA30::SC

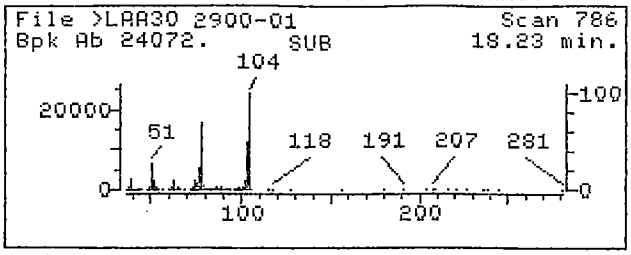
Quant ID File: IDCAP::QT
Last Calibration: 920506 11:56

Compound No: 36
Compound Name: Ethylbenzene
Scan Number: 735
Retention Time: 17.05 min.
Quant Ion: 91.0
Area: 33041
Concentration: 1.56 ug/L
q-value: 90

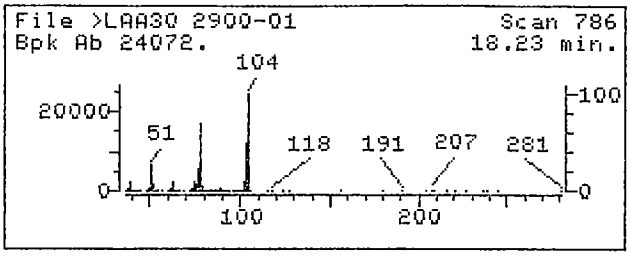
REFERENCE STANDARD SPECTRUM

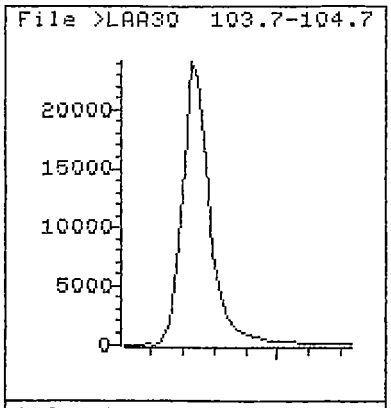


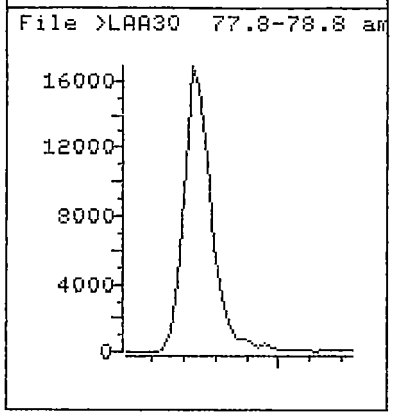
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







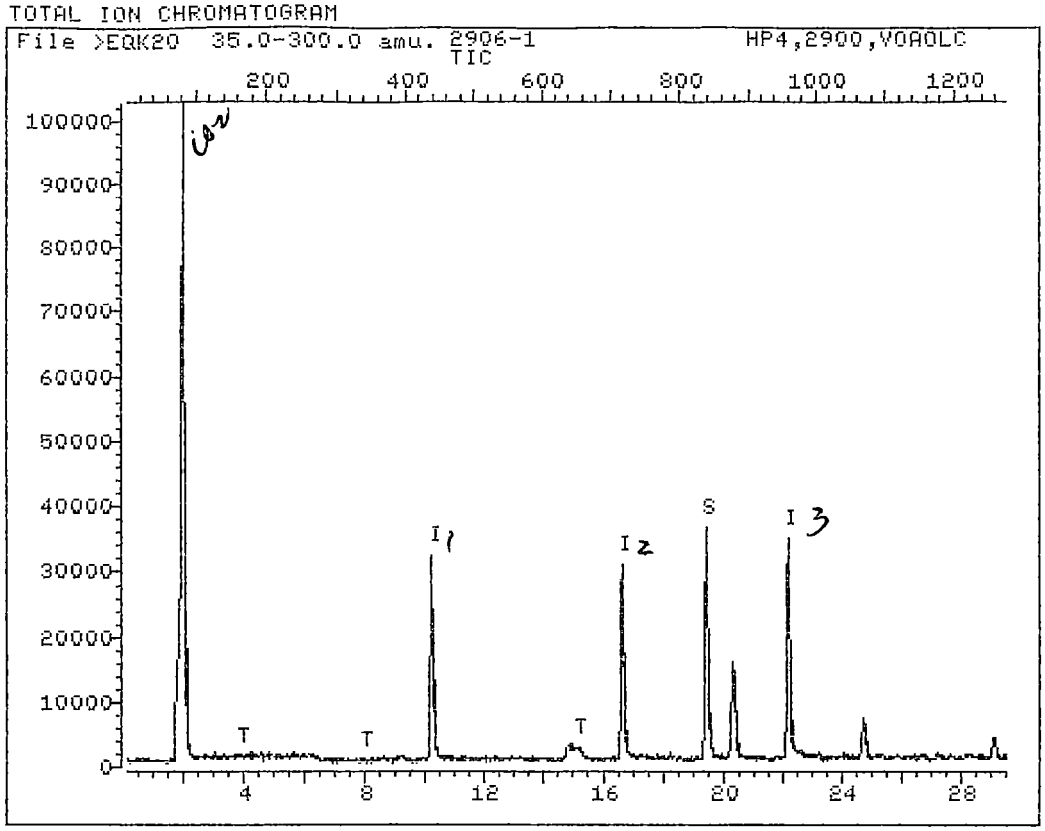
Data File: >LAA30::D3
Name: 2900-01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:01
Injected at: 920430 19:51

Quant Output File: ^LAA30::SC

Quant ID File: IDCAP::QT
Last Calibration: 920506 11:56

Compound No: 37
Compound Name: Styrene
Scan Number: 786
Retention Time: 18.23 min.
Quant Ion: 104.0
Area: 147484
Concentration: 12.98 ug/L
q-value: 74

TOTAL ION CHROMATOGRAM



Data File: >EQK20::D3 Quant Output File: ^EQK20::SC
Name: 2906-1
Misc: HP4,2900,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 16:30
Injected at: 920430 16:00

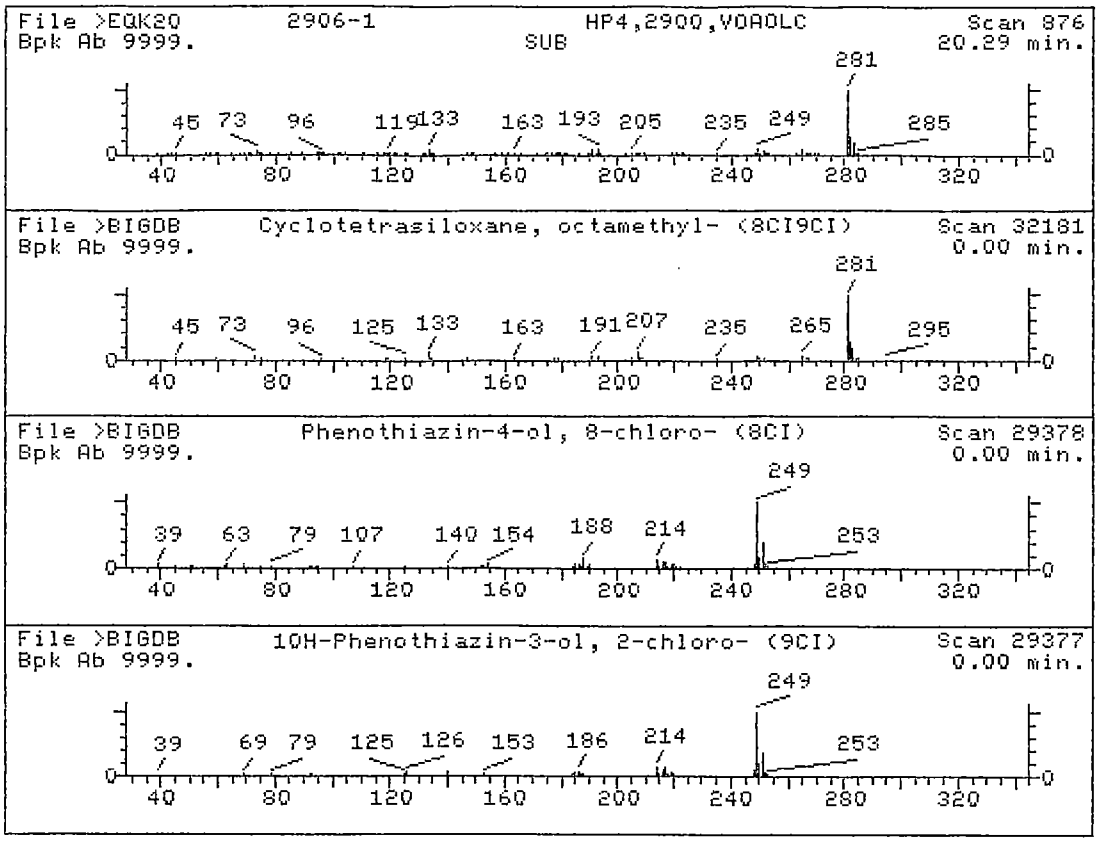
QUANT REPORT

Operator ID: HP4A
Output File: ^EQK20::SC
Data File: >EQK20::D3
Name: 2906-1
Misc: HP4,2900,VOAOLC

Quant Rev: 6
Quant Time: 920430 16:30
Injected at: 920430 16:00
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.21	114.0	79002	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	3.92	43.0	348	~~1.49~~	~~ug/L~~	84
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	7.93	43.0	157	.54	ug/L	97
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.42	174.0	43306	5.28	ug/L	52
18)	*Chlorobenzene-d5	16.65	117.0	58985	5.00	ug/L	92
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	15.16	43.0	562	.84	ug/L	76
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.18	152.0	35270	5.00	ug/L	77
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	



Unknown Siloxane

. UNKNOWN #,3
Injected at: 920430 16:00

AREA = 126879.0 TENTATIVE CONCENTRATION IS 3.00

1. Cyclotetrasiloxane, octamethyl- (8CI9CI)	296	C8H24O4Si4
2. Phenothiazin-4-ol, 8-chloro- (8CI)	249	C12H8ClNOS
3. 10H-Phenothiazin-3-ol, 2-chloro- (9CI)	249	C12H8ClNOS
4. 10H-Phenothiazin-3-ol, 8-chloro- (9CI)	249	C12H8ClNOS
5. Phenothiazin-2-ol, 8-chloro- (8CI)	249	C12H8ClNOS

Sample file: >EQK20 Spectrum #: 876
Search speed: 2 Tilting option: F No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76	556672	32181	"BIGDB	94	42	2	0	92	8	45	28
2.	15*	19807557	29378	"BIGDB	54	50	0	-3	14	62	3	44
3.	13*	16770993	29377	"BIGDB	45	60	0	-3	13	62	3	34
4.	12*	2002326	29375	"BIGDB	38	49	0	-3	11	62	2	27
5.	12*	5909615	29376	"BIGDB	36	49	0	-3	10	62	2	23

MS data file header from : >EQK20

Sample: 2906-1 Operator: HP4A SUPER GRP. 4/30/92 16:00
Misc : HP4,2900,VOAOLC
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: CLPCPP Tuning file: MTCB28 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 200 Transfer line temp. : 0

Chromatographic temperatures :	35.	180.	0.	0.	0.
Chromatographic times, min. :	5.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.3	0.0

>EQK20 2906-1 HP4,2900,VOAOLC
35.0| 300.0 CLP TIC
Upslope: .05 Area Reject: 19249. Max Peaks: 5 Bunching: -1
Dnslope: 0.00 Results File IEQK20 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
~~1~~	~~1.96~~ CO V	65	80	95	101530	855236	816964	100.00	77.135
~~2~~	~~14.86~~ 40%	628	640	642	2551	47737	24625	3.01	2.325
3	20.29	865	876	884	15009	163141	126879	15.53	11.980
~~4~~	~~24.71~~ 40%	1061	1068	1078	6559	87894	58654	7.18	5.538
5	~~29.07~~	1251	1257	1266	3570	58086	32010	3.92	3.022

Sum of corrected areas: 1059132.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	5.0	213731.	10.21	1.00 - 13.43
2	5.0	192494.	16.65	13.43 - 19.42
3	5.0	222661.	22.18	19.42 - 29.50

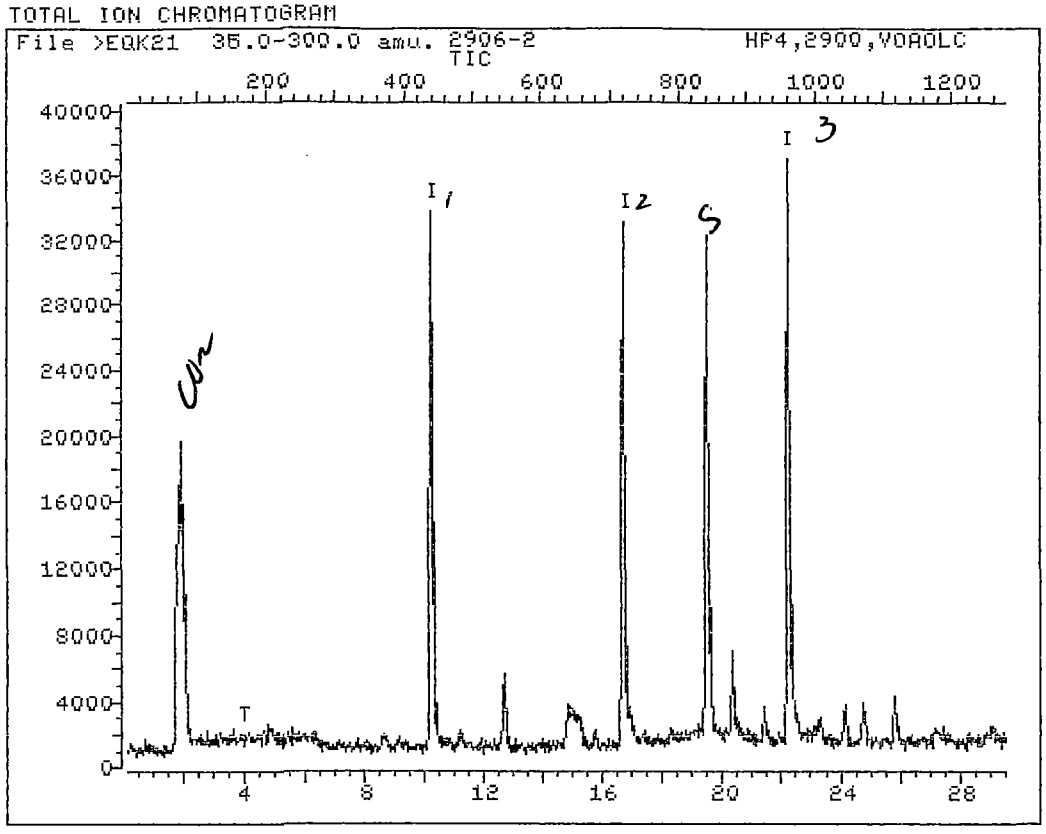
'^' Dilution Factor = 1.00 U dilf = 1.00
Method called for 25.00000 g or mL This sample was 25.00000 g or mL

Correction Factor = 1.00

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown} * \text{Correction Factor}$$

10:46 PM THU., 30 APR., 1992

TOTAL ION CHROMATOGRAM



Data File: >EQK21::D3
Name: 2906-2
Misc: HP4,2900,VOAOLC

Quant Output File: ^EQK21::SC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 17:09
Injected at: 920430 16:39

QUANT REPORT

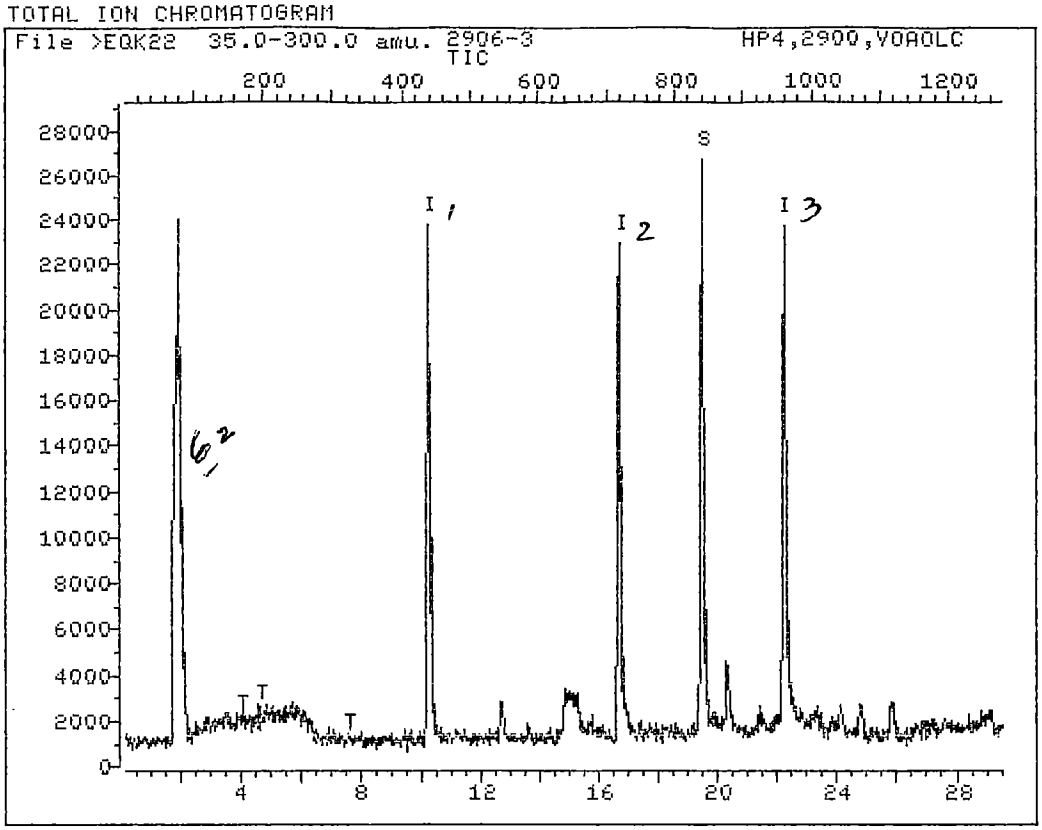
Operator ID: HP4A
Output File: ^EQK21::SC
Data File: >EQK21::D3
Name: 2906-2
Misc: HP4,2900,VOAOLC

Quant Rev: 6
Quant Time: 920430 17:09
Injected at: 920430 16:39
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.21	114.0	84397	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	3.88	43.0	374	~~1.50~~	~~ug/L~~	99
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	0.00	43.0	0	0.00	ug/L	
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.42	174.0	39054M	4.46	ug/L	
18)	*Chlorobenzene-d5	16.65	117.0	61883	5.00	ug/L	97
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.18	152.0	39253	5.00	ug/L	92
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

TOTAL ION CHROMATOGRAM



Data File: >EQK22::D3 Quant Output File: ^EQK22::SC
Name: 2906-3
Misc: HP4,2900,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 17:47
Injected at: 920430 17:17

QUANT REPORT

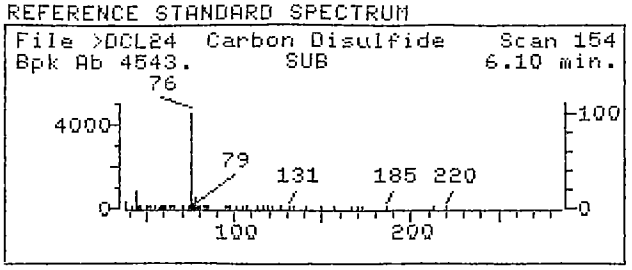
Operator ID: HP4A
Output File: ^EQK22::SC
Data File: >EQK22::D3
Name: 2906-3
Misc: HP4,2900,VOAOLC

Quant Rev: 6
Quant Time: 920430 17:47
Injected at: 920430 17:17
Dilution Factor: 1.00000

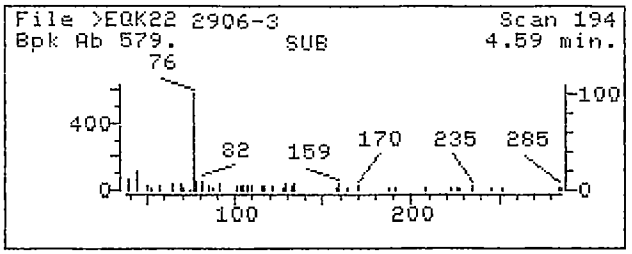
ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.21	114.0	61073	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	5/6/92
7)	Acetone	3.95	43.0	555	~~3.07~~	~~ug/L~~	88
8)	Carbon Disulfide	4.59	76.0	3379	.53	ug/L	100
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	5/6/92
15)	2-Butanone	7.52	43.0	355	~~1.58~~	~~ug/L~~	98
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.43	174.0	31643	4.99	ug/L	45
18)	*Chlorobenzene-d5	16.66	117.0	43306	5.00	ug/L	98
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.19	152.0	25482	5.00	ug/L	84
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

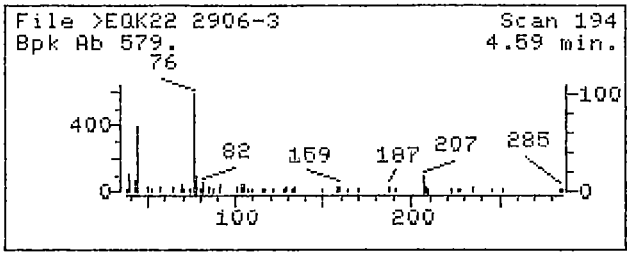
REFERENCE STANDARD SPECTRUM

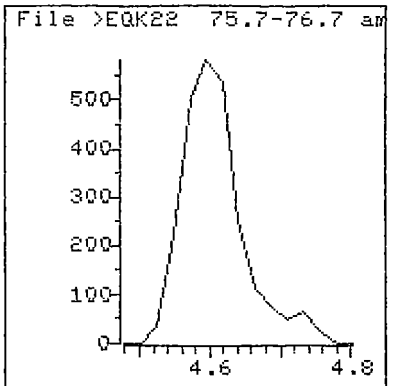


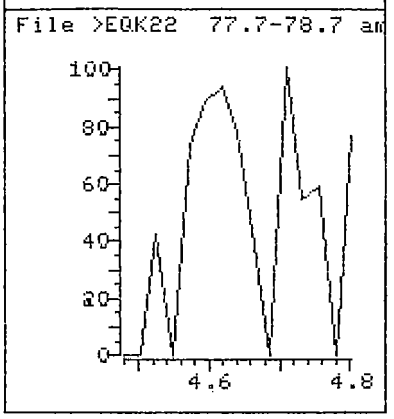
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







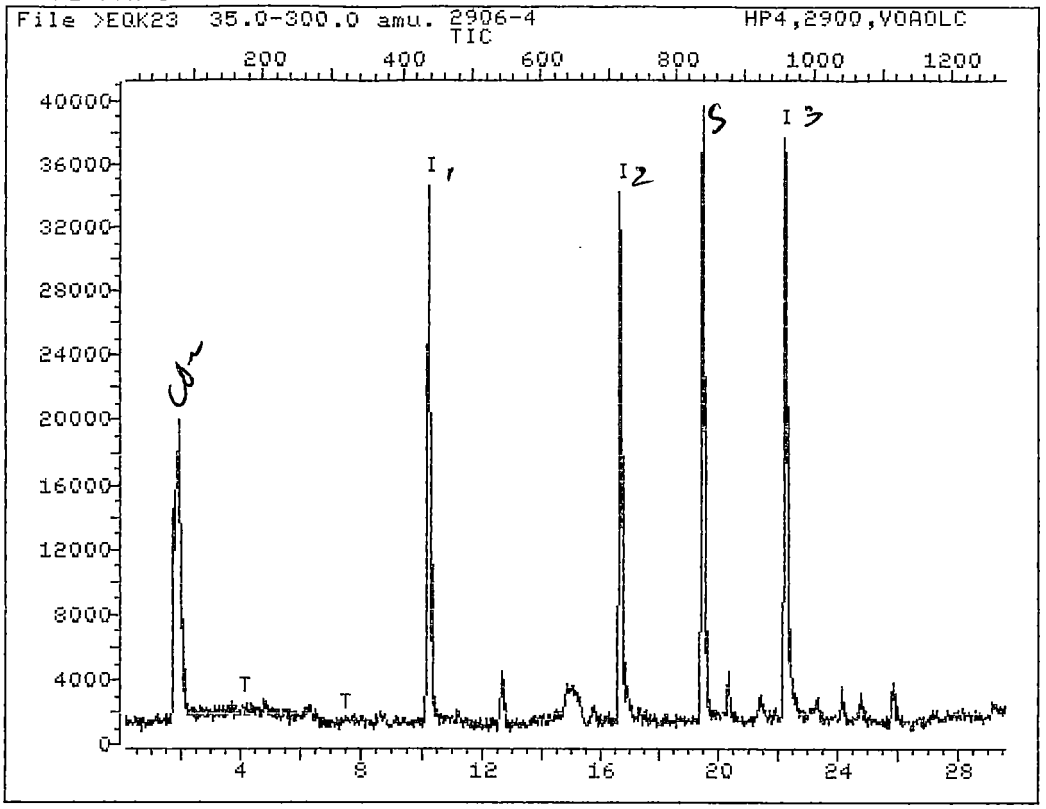
Data File: >EQK22::D3
Name: 2906-3
Misc: HP4,2900,VOAOLC
Quant Time: 920430 17:47
Injected at: 920430 17:17

Quant Output File: ^EQK22::SC

Quant ID File: IDCAP::QT
Last Calibration: 920430 12:42

Compound No: 8
Compound Name: Carbon Disulfide
Scan Number: 194
Retention Time: 4.59 min.
Quant Ion: 76.0
Area: 3379
Concentration: .53 ug/L
q-value: 100

TOTAL ION CHROMATOGRAM



Data File: >EQK23::D3 Quant Output File: ^EQK23::SC
Name: 2906-4
Misc: HP4,2900,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 18:26
Injected at: 920430 17:56

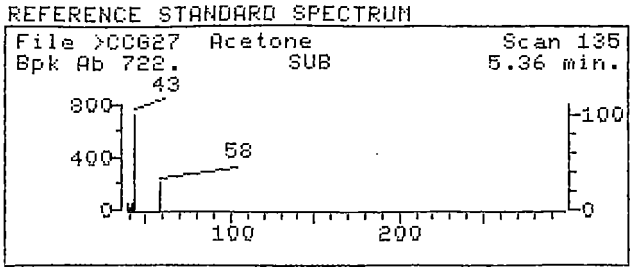
QUANT REPORT

Operator ID: HP4A Quant Rev: 6 Quant Time: 920430 18:26
Output File: ^EQK23::SC Injected at: 920430 17:56
Data File: >EQK23::D3 Dilution Factor: 1.00000
Name: 2906-4
Misc: HP4,2900,VOAOLC

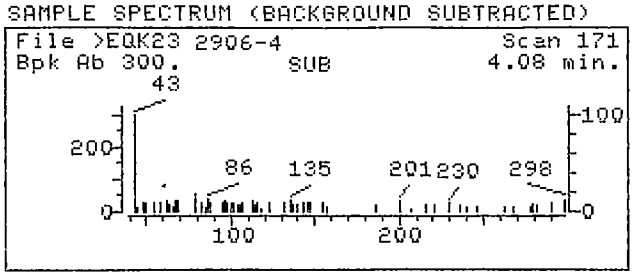
ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.21	114.0	87175	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	4.08	43.0	2162	8.38	ug/L	71
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	7.42	43.0	489	~~1.52~~	~~ug/L~~	99
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.42	174.0	48599M	5.37	ug/L	
18)	*Chlorobenzene-d5	16.66	117.0	67566	5.00	ug/L	93
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.19	152.0	41875	5.00	ug/L	87
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

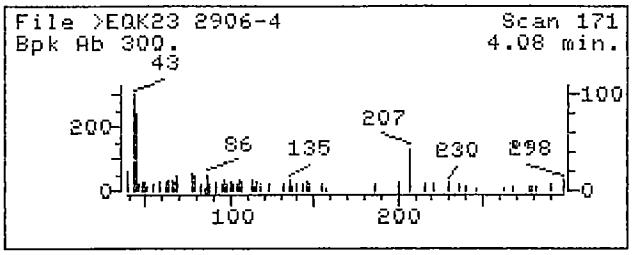
REFERENCE STANDARD SPECTRUM

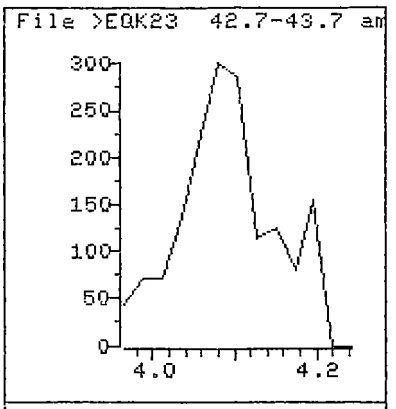


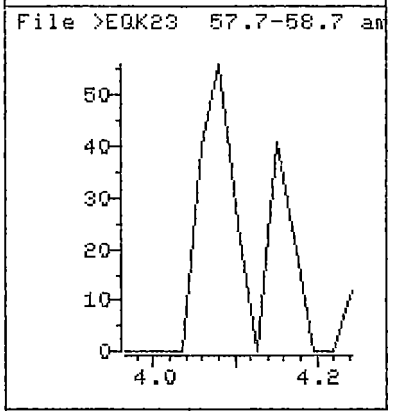
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







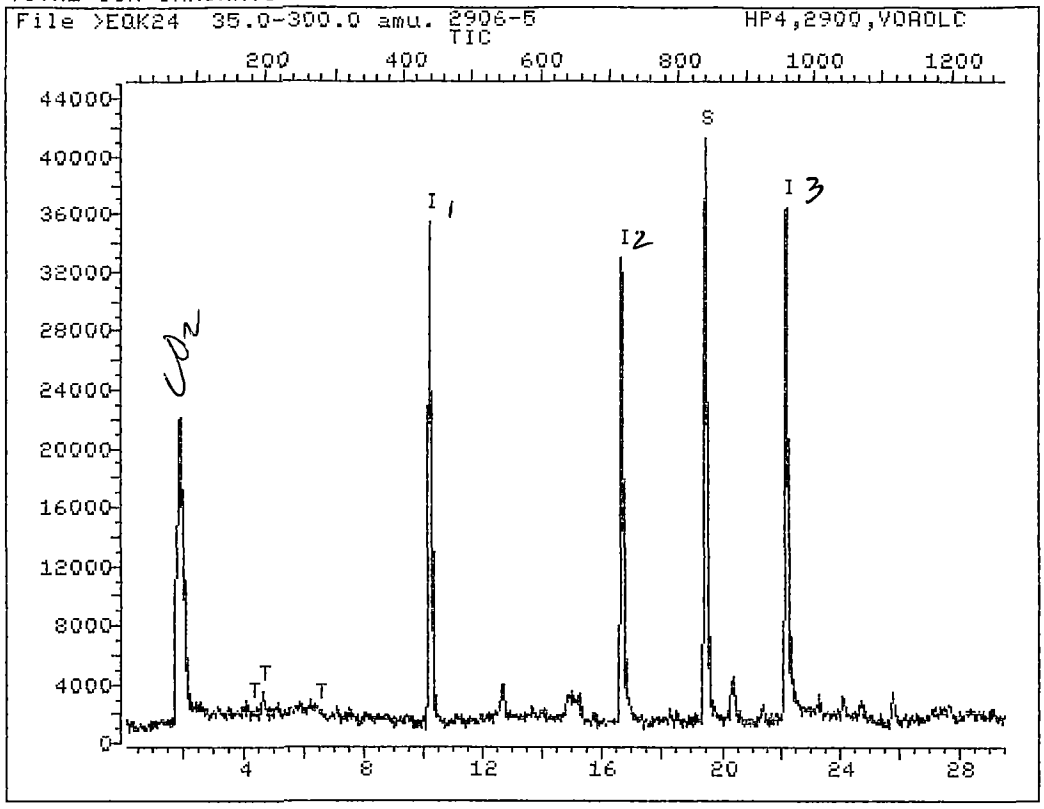
Data File: >EQK23::D3
Name: 2906-4
Misc: HP4,2900,VOAOLC
Quant Time: 920430 18:26
Injected at: 920430 17:56

Quant Output File: ^EQK23::SC

Quant ID File: IDCAP::QT
Last Calibration: 920430 12:42

Compound No: 7
Compound Name: Acetone
Scan Number: 171
Retention Time: 4.08 min.
Quant Ion: 43.0
Area: 2162
Concentration: 8.38 ug/L
q-value: 71

TOTAL ION CHROMATOGRAM



Data File: >EQK24::D3
Name: 2906-5
Misc: HP4,2900,VOAOLC

Quant Output File: ^EQK24::SC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 19:04
Injected at: 920430 18:34

QUANT REPORT

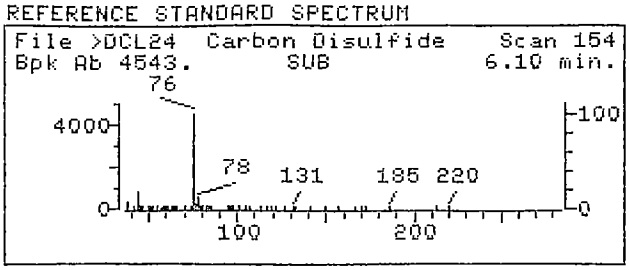
Operator ID: HP4A
Output File: ^EQK24::SC
Data File: >EQK24::D3
Name: 2906-5
Misc: HP4,2900,VOAOLC

Quant Rev: 6
Quant Time: 920430 19:04
Injected at: 920430 18:34
Dilution Factor: 1.00000

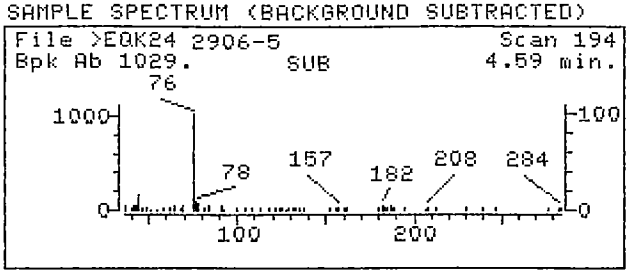
ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.19	114.0	89327	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	4.27	43.0	520	~~1.97~~	~~ug/L~~ 5/6/92	96
8)	Carbon Disulfide	4.59	76.0	5383	.58	ug/L	100
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	6.48	43.0	409	~~1.24~~	~~ug/L~~ 5/6/92	84
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.43	174.0	49278	5.31	ug/L	53
18)	*Chlorobenzene-d5	16.64	117.0	63612	5.00	ug/L	96
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.19	152.0	38992	5.00	ug/L	96
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

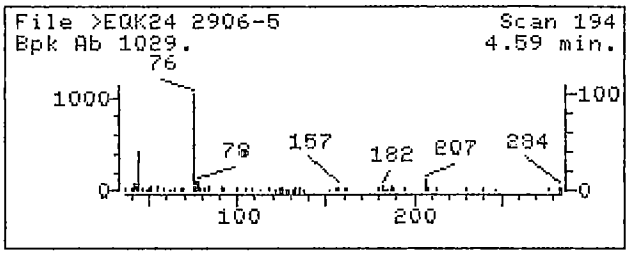
REFERENCE STANDARD SPECTRUM

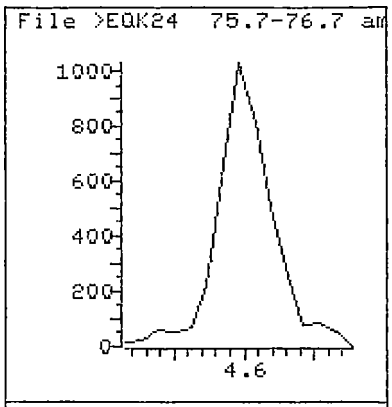


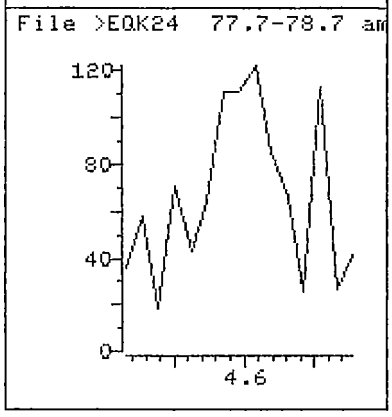
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







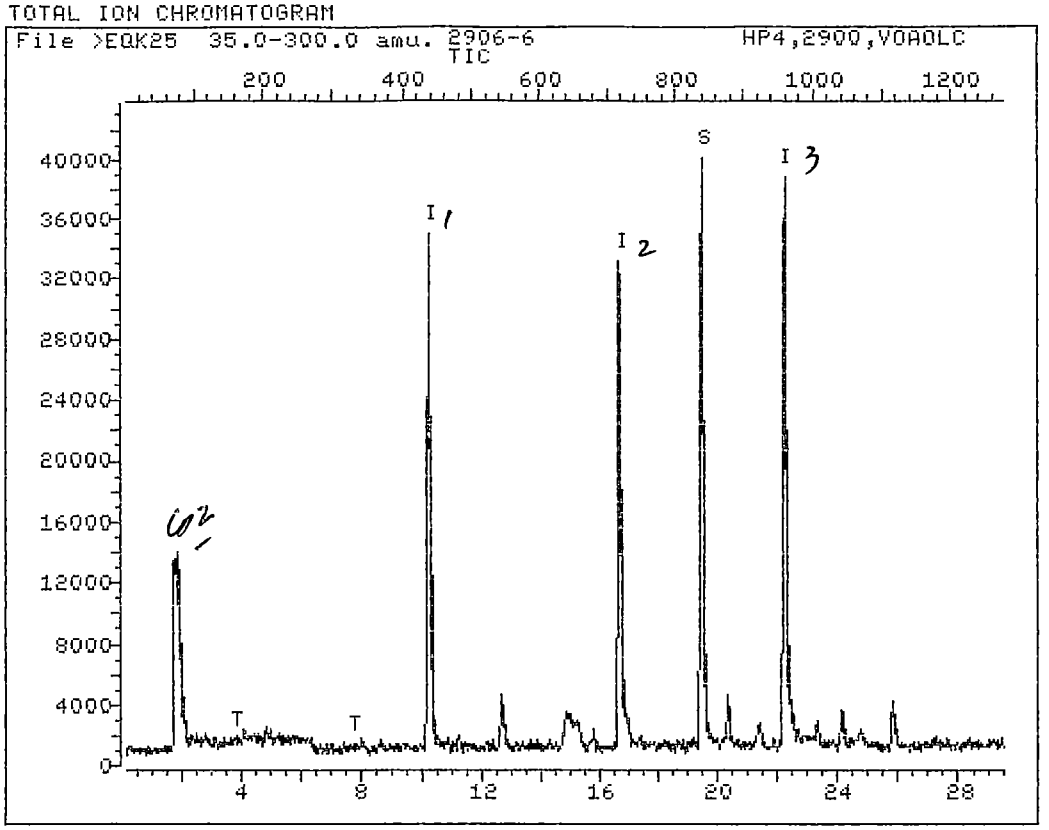
Data File: >EQK24::D3
Name: 2906-5
Misc: HP4,2900,VOAOLC
Quant Time: 920430 19:04
Injected at: 920430 18:34

Quant Output File: ^EQK24::SC

Quant ID File: IDCAP::QT
Last Calibration: 920430 12:42

Compound No: 8
Compound Name: Carbon Disulfide
Scan Number: 194
Retention Time: 4.59 min.
Quant Ion: 76.0
Area: 5383
Concentration: .58 ug/L
q-value: 100

TOTAL ION CHROMATOGRAM



Data File: >EQK25::D3 Quant Output File: ^EQK25::SC
Name: 2906-6
Misc: HP4,2900,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 19:43
Injected at: 920430 19:13

QUANT REPORT

Operator ID: HP4A
Output File: ^EQK25::SC
Data File: >EQK25::D3
Name: 2906-6
Misc: HP4,2900,VOAOLC

Quant Rev: 6
Quant Time: 920430 19:43
Injected at: 920430 19:13
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.20	114.0	89217	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	3.75	43.0	228	~~.86~~	~~ug/L~~ CB 5/6/92	91
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	7.67	43.0	295	~~.90~~	~~ug/L~~ CB 5/6/92	98
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.43	174.0	48166	5.20	ug/L	60
18)	*Chlorobenzene-d5	16.65	117.0	66996	5.00	ug/L	92
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.20	152.0	41448	5.00	ug/L	89
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

6LCA

LOW CONC. WATER VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

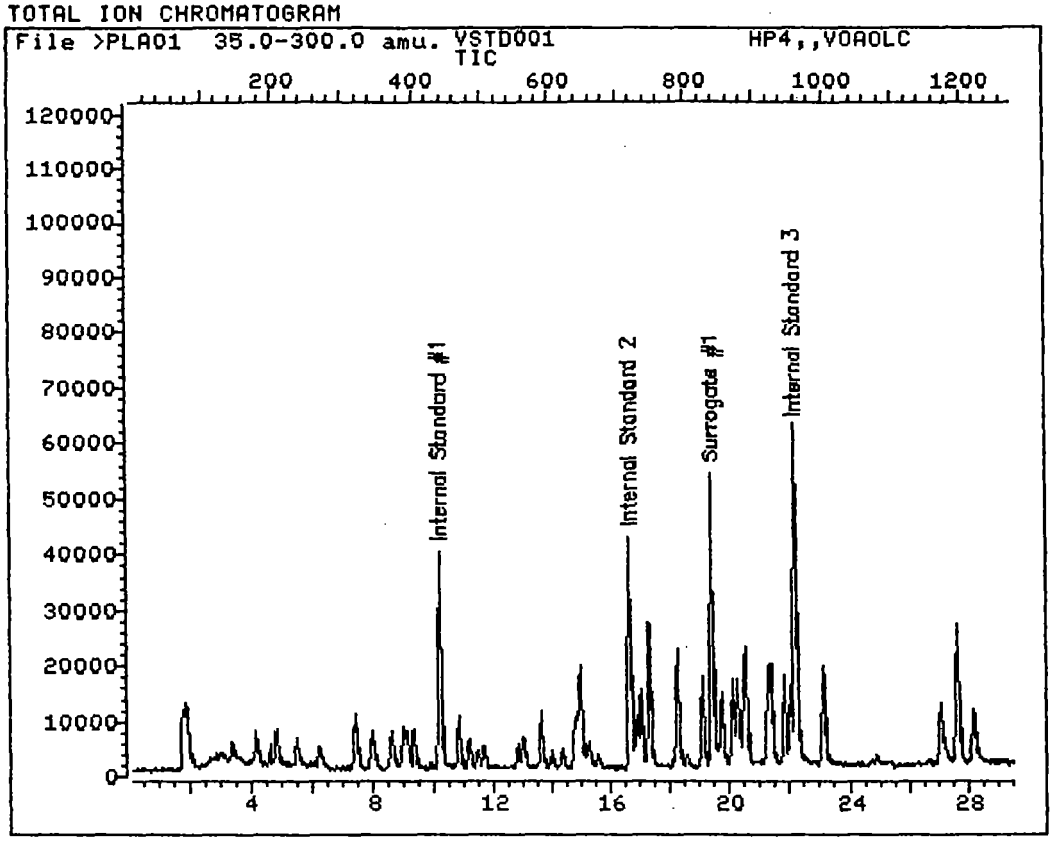
Instrument ID: HP4 Calibration Date(s): 04/29/92 04/29/92

LAB FILE ID: RRF 1 =>PLA01 RRF 2 =>PLA02
RRF 5 =>DBA29 RRF 10=>PLA10 RRF 25=>PLA25

COMPOUND	RRF 1	RRF 2	RRF 5	RRF 10	RRF 25	RRF	% RSD
Chloromethane	0.094	0.112	0.088	0.093	0.078	0.093	13.3
Bromomethane	* 0.288	0.250	0.235	0.249	0.217	0.248	10.7*
Vinyl Chloride	* 0.145	0.152	0.140	0.150	0.132	0.144	5.6*
Chloroethane	0.142	0.142	0.118	0.130	0.113	0.129	10.3
Methylene Chloride	0.523	0.328	0.236	0.254	0.211	0.311	40.8
Acetone	0.050	0.024	0.032	0.026	0.026	0.032	33.2
Carbon Disulfide	0.686	0.588	0.591	0.799	0.637	0.661	13.2
1,1-Dichloroethene	* 0.265	0.248	0.227	0.240	0.216	0.239	7.9*
1,1-Dichloroethane	* 0.555	0.513	0.492	0.546	0.477	0.516	6.5*
cis-1,2-dichloroethene	0.327	0.313	0.279	0.294	0.276	0.298	7.4
trans-1,2-dichloroethene	0.350	0.330	0.294	0.322	0.292	0.318	7.8
Chloroform	* 0.754	0.742	0.721	0.781	0.746	0.749	2.9*
1,2-Dichloroethane	* 0.373	0.362	0.337	0.359	0.334	0.353	4.8*
2-Butanone	0.044	0.035	0.035	0.028	0.028	0.034	18.7
Bromochloromethane	* 0.167	0.149	0.142	0.153	0.145	0.151	6.4*
1,1,1-Trichloroethane	* 1.036	1.083	0.992	1.082	0.916	1.022	6.8*
Carbon Tetrachloride	* 1.015	1.020	1.027	1.080	0.943	1.017	4.8*
Bromodichloromethane	* 0.607	0.611	0.594	0.645	0.581	0.608	3.9*
1,2-Dichloropropane	0.340	0.329	0.269	0.281	0.230	0.290	15.6
cis-1,3-Dichloropropene	* 0.456	0.414	0.390	0.417	0.358	0.407	8.9*
Trichloroethene	* 0.684	0.671	0.579	0.607	0.508	0.610	11.7*
Dibromochloromethane	* 0.367	0.356	0.358	0.422	0.391	0.379	7.4*
1,1,2-Trichloroethane	* 0.210	0.186	0.176	0.186	0.145	0.181	13.0*
Benzene	* 1.142	1.048	0.880	0.947	0.794	0.962	14.2*
trans-1,3-Dichloropropene	* 0.354	0.314	0.296	0.314	0.283	0.312	8.6*
Bromoform	* 0.329	0.271	0.297	0.334	0.389	0.324	13.7*
4-Methyl-2-Pentanone	0.187	0.158	0.120	0.132	0.105	0.140	23.2
2-Hexanone	0.132	0.091	0.090	0.077	0.073	0.093	25.5
Tetrachloroethene	* 1.221	1.121	0.988	1.055	0.811	1.039	14.8*
1,1,2,2-Tetrachloroethane	* 0.240	0.184	0.171	0.179	0.153	0.185	17.6*
1,2-Dibromoethane	* 0.322	0.290	0.258	0.274	0.237	0.276	11.8*
Toluene	* 1.678	1.589	1.355	1.369	1.117	1.422	15.5*
Chlorobenzene	* 1.252	1.095	0.934	1.004	0.792	1.016	17.0*
Ethylbenzene	* 2.281	1.957	1.717	1.873	1.569	1.879	14.3*
Styrene	* 1.191	0.941	0.855	0.886	0.688	0.912	20.0*
Xylene (total)	* 0.790	0.661	0.564	0.569	0.433	0.604	21.9*
1,3-Dichlorobenzene	* 2.277	1.808	1.582	1.571	1.483	1.744	18.4*
1,4-Dichlorobenzene	* 2.493	1.694	1.565	1.635	1.456	1.769	23.4*
1,2-Dichlorobenzene	* 2.191	1.454	1.253	1.243	1.131	1.454	29.4*
1,2-Dibromo-3-chloropropane	0.131	0.102	0.110	0.097	0.114	0.111	11.8
Bromofluorobenzene	* 0.579	0.549	0.599	0.579	0.600	0.581	3.6*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

TOTAL ION CHROMATOGRAM



Data File: >PLA01::D4 Quant Output File: ^PLA01::SC
Name: VSTD001
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920429 16:11

Operator ID: HP4A
Quant Time: 920429 16:26
Injected at: 920429 15:55

QUANT REPORT

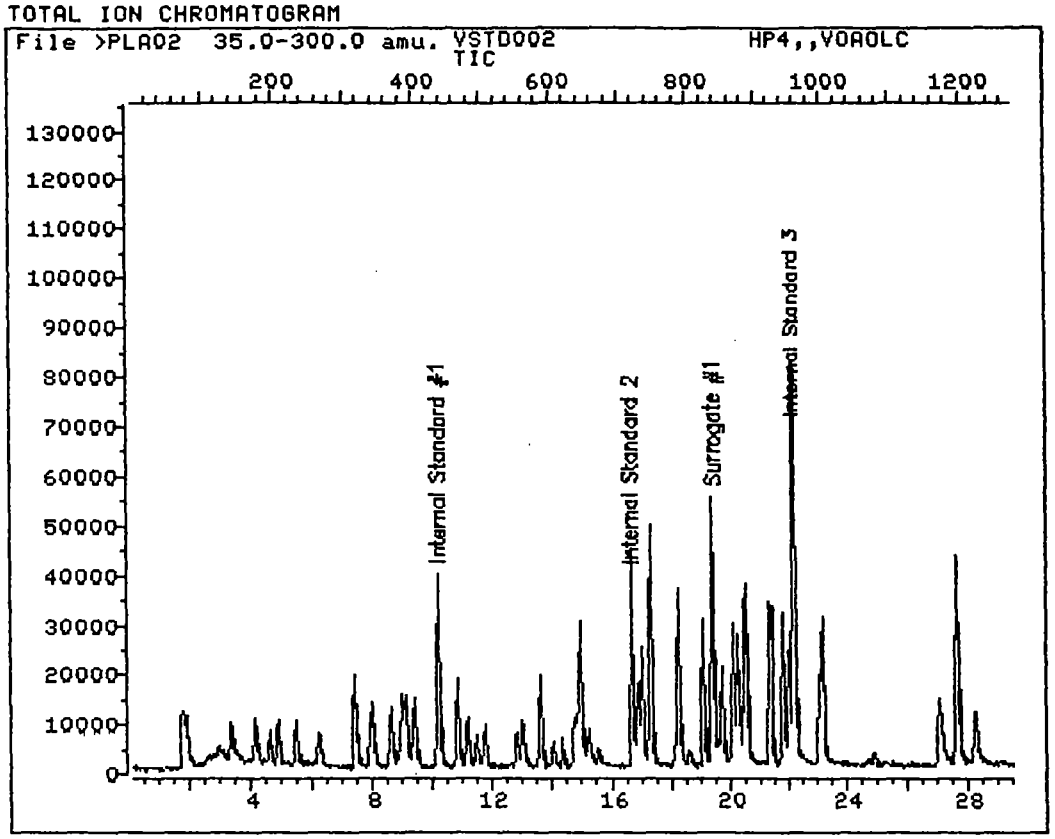
Operator ID: HP4A
Output File: ^PLA01::SC
Data File: >PLA01::D4
Name: VSTD001
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920506 10:45
Injected at: 920429 15:55
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 10:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.17	114.0	100266	5.00	ug/L	100
2)	Chloromethane	2.45	50.0	1885	1.20	ug/L	94
3)	Bromomethane	3.00	94.0	5784	1.19	ug/L	93
4)	Vinyl Chloride	2.64	62.0	2909	1.21	ug/L	86
5)	Chloroethane	3.14	64.0	2848M	1.19	ug/L	88
6)	Methylene Chloride	4.87	84.0	10491	2.18	ug/L	75
7)	Acetone	4.09	43.0	4991M	10.38	ug/L	91
8)	Carbon Disulfide	4.60	76.0	13767	1.42	ug/L	100
9)	1,1-Dichloroethene	4.13	96.0	5314	1.22	ug/L	98
10)	1,1-Dichloroethane	6.21	63.0	11137	1.10	ug/L	95
11)	cis-1,2-dichloroethene	5.50	96.0	6562	1.23	ug/L	91
12)	trans-1,2-dichloroethene	7.41	96.0	7021	1.29	ug/L	88
13)	Chloroform	8.01	83.0	15127	.90	ug/L	96
14)	1,2-Dichloroethane	9.30	62.0	7472	.83	ug/L	87
15)	2-Butanone	7.38	43.0	4411M	9.48	ug/L	97
16)	Bromochloromethane	7.91	128.0	3339M	1.13	ug/L	
17)	Bromofluorobenzene	19.39	174.0	58042	5.20	ug/L	56
18)	*Chlorobenzene-d5	16.62	117.0	72242	5.00	ug/L	98
19)	1,1,1-Trichloroethane	8.58	97.0	14965	.96	ug/L	82
20)	Carbon Tetrachloride	9.07	117.0	14667	.93	ug/L	76
21)	Bromodichloromethane	11.67	83.0	8770	1.06	ug/L	94
22)	1,2-Dichloropropane	11.12	63.0	4915	1.18	ug/L	96
23)	cis-1,3-Dichloropropene	12.77	75.0	6590	1.23	ug/L	95
24)	Trichloroethene	10.82	95.0	9885	1.09	ug/L	91
25)	Dibromochloromethane	15.24	129.0	5295	1.09	ug/L	92
26)	1,1,2-Trichloroethane	14.32	97.0	3038	1.05	ug/L	93
27)	Benzene	9.34	78.0	16500	1.17	ug/L	88
28)	trans-1,3-Dichloropropene	13.97	75.0	5113	1.24	ug/L	95
29)	4-Methyl-2-Pentanone	12.98	43.0	13527	6.82	ug/L	84
30)	2-Hexanone	14.85	43.0	9572	10.27	ug/L	85
31)	Tetrachloroethene	14.94	166.0	17644	1.23	ug/L	95
32)	1,1,2,2-Tetrachloroethane	19.59	83.0	3464	1.43	ug/L	93
33)	1,2-Dibromoethane	15.52	107.0	4657	1.12	ug/L	96
34)	Toluene	13.56	91.0	24248	1.31	ug/L	94
35)	Chlorobenzene	16.69	112.0	18091	1.30	ug/L	81
36)	Ethylbenzene	17.01	91.0	32951	1.15	ug/L	97
37)	Styrene	18.21	104.0	17208	1.32	ug/L	71
38)	Xylene (total)	18.17	106.0	11408	1.24	ug/L	92
39)	*1,4-dichlorobenzene-d4	22.15	152.0	46427	5.00	ug/L	92
40)	Bromoform	18.53	173.0	3055	1.38	ug/L	60
41)	1,3-Dichlorobenzene	21.99	146.0	21139	1.47	ug/L	98
42)	1,2-Dichlorobenzene	23.05	146.0	20343	2.20	ug/L	77
43)	1,4-Dichlorobenzene	22.22	146.0	23147	1.55	ug/L	79
44)	1,2-Dibromo-3-chloropropane	24.87	75.0	1219M	1.40	ug/L	

TOTAL ION CHROMATOGRAM



Data File: >PLA02::D4
Name: VSTD002
Misc: HP4,,VOAOLC

Quant Output File: ^PLA02::SC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920429 16:11

Operator ID: HP4A
Quant Time: 920429 17:43
Injected at: 920429 17:12

QUANT REPORT

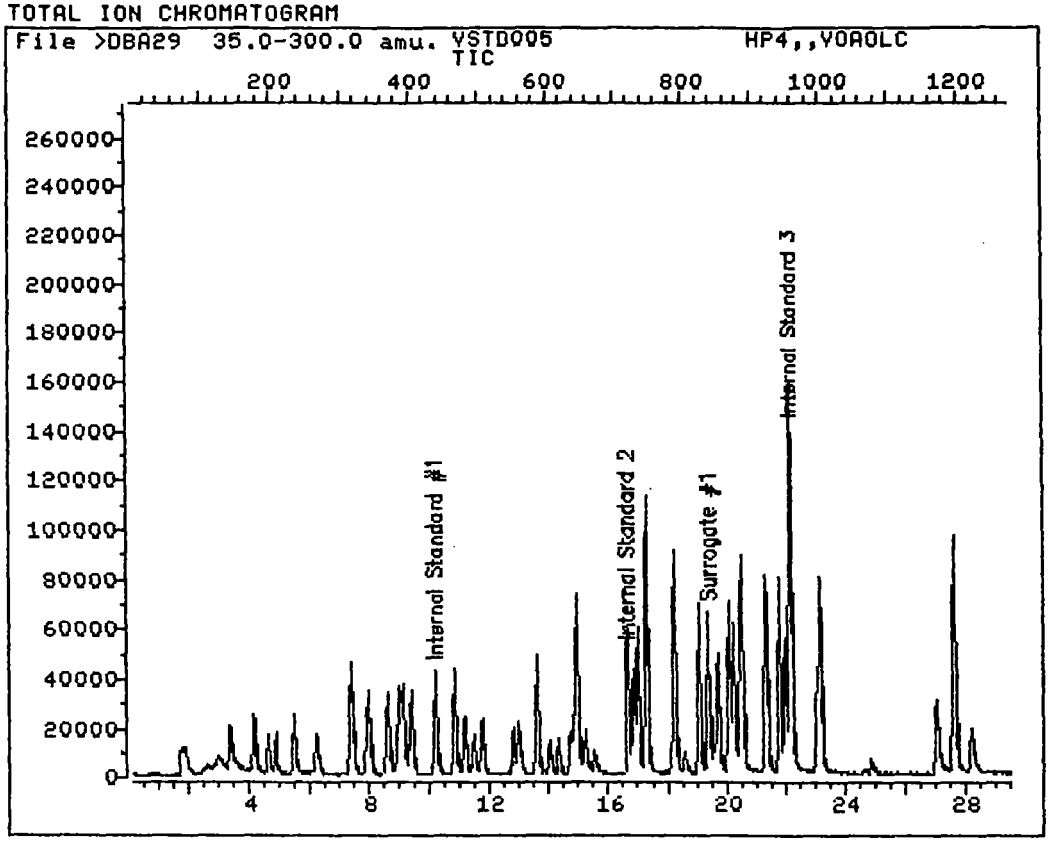
Operator ID: HP4A
Output File: ^PLA02::SC
Data File: >PLA02::D4
Name: VSTD002
Misc: HP4,,VOAOLC

Quant Rev: 6 Quant Time: 920429 17:43
Injected at: 920429 17:12
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920429 16:11

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.17	114.0	98714	5.00	ug/L	100
2)	Chloromethane	2.49	50.0	4439	2.56	ug/L	90
3)	Bromomethane	3.00	94.0	9862	2.12	ug/L	75
4)	Vinyl Chloride	2.66	62.0	6011	2.17	ug/L	89
5)	Chloroethane	3.12	64.0	5596M	2.40	ug/L	95
6)	Methylene Chloride	4.85	84.0	12963	2.78	ug/L	78
7)	Acetone	4.04	43.0	4796M	7.66	ug/L	92
8)	Carbon Disulfide	4.57	76.0	23233	1.99	ug/L	100
9)	1,1-Dichloroethene	4.13	96.0	9809	2.19	ug/L	91
10)	1,1-Dichloroethane	6.18	63.0	20245	2.09	ug/L	92
11)	cis-1,2-dichloroethene	5.47	96.0	12355	2.25	ug/L	93
12)	trans-1,2-dichloroethene	7.40	96.0	13030	2.25	ug/L	95
13)	Chloroform	7.98	83.0	29312	2.06	ug/L	98
14)	1,2-Dichloroethane	9.32	62.0	14304	2.15	ug/L	91
15)	2-Butanone	7.38	43.0	6978	9.95	ug/L	86
16)	Bromochloromethane	7.91	128.0	5892	2.10	ug/L	90
17)	Bromofluorobenzene	19.41	174.0	54175	4.58	ug/L	62
18)	*Chlorobenzene-d5	16.62	117.0	72246	5.00	ug/L	95
19)	1,1,1-Trichloroethane	8.60	97.0	31286	2.18	ug/L	80
20)	Carbon Tetrachloride	9.08	117.0	29466	1.99	ug/L	90
21)	Bromodichloromethane	11.69	83.0	17657	2.06	ug/L	82
22)	1,2-Dichloropropane	11.14	63.0	9504	2.45	ug/L	86
23)	cis-1,3-Dichloropropene	12.79	75.0	11975	1.57	ug/L	95
24)	Trichloroethene	10.79	95.0	19385	2.32	ug/L	96
25)	Dibromochloromethane	15.24	129.0	10292	1.99	ug/L	92
26)	1,1,2-Trichloroethane	14.34	97.0	5387	2.12	ug/L	89
27)	Benzene	9.34	78.0	30298	2.38	ug/L	85
28)	trans-1,3-Dichloropropene	13.97	75.0	9070	2.67	ug/L	92
29)	4-Methyl-2-Pentanone	12.98	43.0	22782	13.13	ug/L	85
30)	2-Hexanone	14.87	43.0	13215	10.16	ug/L	85
31)	Tetrachloroethene	14.94	166.0	32384	2.27	ug/L	96
32)	1,1,2,2-Tetrachloroethane	19.59	83.0	5305	2.15	ug/L	88
33)	1,2-Dibromoethane	15.53	107.0	8385	2.25	ug/L	89
34)	Toluene	13.58	91.0	45933	2.35	ug/L	87
35)	Chlorobenzene	16.69	112.0	31637	2.34	ug/L	83
36)	Ethylbenzene	17.01	91.0	56545	2.28	ug/L	96
37)	Styrene	18.21	104.0	27202	2.20	ug/L	64
38)	Xylene (total)	18.18	106.0	19113	2.35	ug/L	92
39)	*1,4-dichlorobenzene-d4	22.15	152.0	49072	5.00	ug/L	85
40)	Bromoform	18.58	173.0	5317	1.82	ug/L	53
41)	1,3-Dichlorobenzene	22.01	146.0	35483	2.29	ug/L	87
42)	1,2-Dichlorobenzene	23.05	146.0	28535	2.32	ug/L	84
43)	1,4-Dichlorobenzene	22.22	146.0	33242	2.16	ug/L	83
44)	1,2-Dibromo-3-chloropropane	24.89	75.0	2000M	1.85	ug/L	

TOTAL ION CHROMATOGRAM



Data File: >DBA29::D4 Quant Output File: ^DBA29::SC
Name: VSTD005
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920428 11:31

Operator ID: HP4A
Quant Time: 920429 14:24
Injected at: 920429 13:53

QUANT REPORT

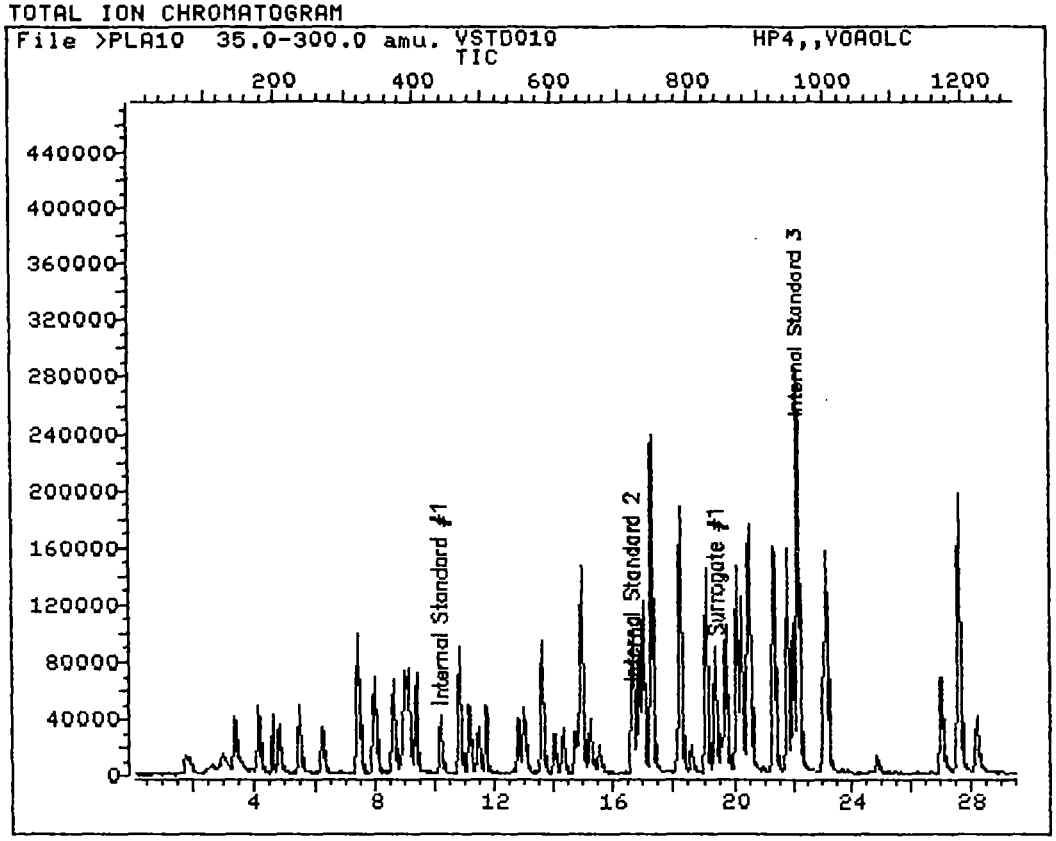
Operator ID: HP4A
Output File: ^DBA29::SC
Data File: >DBA29::D4
Name: VSTD005
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920429 14:24
Injected at: 920429 13:53
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920428 11:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.17	114.0	103567	5.00	ug/L	100
2)	Chloromethane	2.47	50.0	9103	3.67	ug/L	97
3)	Bromomethane	3.00	94.0	24354	5.07	ug/L	87
4)	Vinyl Chloride	2.63	62.0	14512	4.17	ug/L	94
5)	Chloroethane	3.12	64.0	12232	4.12	ug/L	94
6)	Methylene Chloride	4.85	84.0	24459	4.64	ug/L	80
7)	Acetone	4.06	43.0	16413	51.38	ug/L	65
8)	Carbon Disulfide	4.57	76.0	61177	4.43	ug/L	100
9)	1,1-Dichloroethene	4.13	96.0	23515	5.21	ug/L	95
10)	1,1-Dichloroethane	6.21	63.0	50916M	4.72	ug/L	94
11)	cis-1,2-dichloroethene	5.49	96.0	28855	4.91	ug/L	88
12)	trans-1,2-dichloroethene	7.40	96.0	30430	4.49	ug/L	97
13)	Chloroform	8.00	83.0	74634	5.50	ug/L	90
14)	1,2-Dichloroethane	9.29	62.0	34870	6.63	ug/L	99
15)	2-Butanone	7.38	43.0	18386	40.72	ug/L	83
16)	Bromochloromethane	7.91	128.0	14692	4.92	ug/L	83
17)	Bromofluorobenzene	19.39	174.0	62059M	6.05	ug/L	
18)	*Chlorobenzene-d5	16.62	117.0	80202	5.00	ug/L	95
19)	1,1,1-Trichloroethane	8.58	97.0	79565M	6.21	ug/L	83
20)	Carbon Tetrachloride	9.09	117.0	82347	6.80	ug/L	90
21)	Bromodichloromethane	11.69	83.0	47681	5.04	ug/L	88
22)	1,2-Dichloropropane	11.14	63.0	21548	4.02	ug/L	98
23)	cis-1,3-Dichloropropene	12.79	75.0	31292	3.38	ug/L	94
24)	Trichloroethene	10.79	95.0	46457	5.04	ug/L	96
25)	Dibromochloromethane	15.24	129.0	28683	4.78	ug/L	92
26)	1,1,2-Trichloroethane	14.34	97.0	14083	4.70	ug/L	99
27)	Benzene	9.36	78.0	70571	3.91	ug/L	89
28)	trans-1,3-Dichloropropene	13.97	75.0	23719	6.10	ug/L	95
29)	4-Methyl-2-Pentanone	12.96	43.0	48157	21.53	ug/L	90
30)	2-Hexanone	14.87	43.0	36084	34.53	ug/L	90
31)	Tetrachloroethene	14.94	166.0	79228	6.09	ug/L	91
32)	1,1,2,2-Tetrachloroethane	19.59	83.0	13717	4.30	ug/L	99
33)	1,2-Dibromoethane	15.54	107.0	20662	4.91	ug/L	95
34)	Toluene	13.56	91.0	108698	4.67	ug/L	97
35)	Chlorobenzene	16.69	112.0	74939	4.57	ug/L	80
36)	Ethylbenzene	17.01	91.0	137667	4.60	ug/L	99
37)	Styrene	18.21	104.0	68608	4.74	ug/L	68
38)	Xylene (total)	18.19	106.0	45199	4.61	ug/L	90
39)	*1,4-dichlorobenzene-d4	22.15	152.0	51922	5.00	ug/L	80
40)	Bromoform	18.53	173.0	15427	4.41	ug/L	56
41)	1,3-Dichlorobenzene	21.99	146.0	82119	5.05	ug/L	94
42)	1,2-Dichlorobenzene	23.03	146.0	65080	5.01	ug/L	84
43)	1,4-Dichlorobenzene	22.20	146.0	81273	4.80	ug/L	82
44)	1,2-Dibromo-3-chloropropane	24.87	75.0	5731M	5.52	ug/L	

TOTAL ION CHROMATOGRAM



Data File: >PLA10::D4 Quant Output File: ^PLA10::SC
Name: VSTD010
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920429 16:11

Operator ID: HP4A
Quant Time: 920429 17:05
Injected at: 920429 16:34

QUANT REPORT

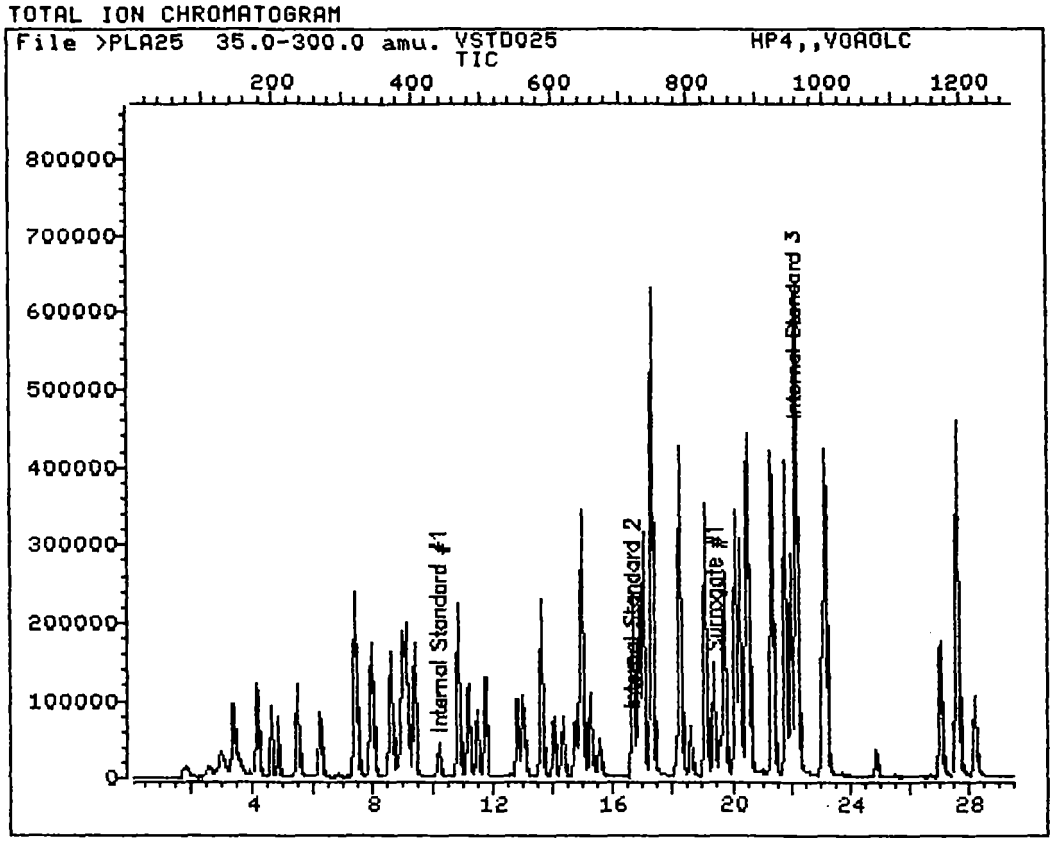
Operator ID: HP4A
Output File: ^PLA10::SC
Data File: >PLA10::D4
Name: VSTD010
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920429 17:05
Injected at: 920429 16:34
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920429 16:11

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.17	114.0	98528	5.00	ug/L	100
2)	Chloromethane	2.47	50.0	18272	10.55	ug/L	83
3)	Bromomethane	3.00	94.0	49152	10.61	ug/L	87
4)	Vinyl Chloride	2.63	62.0	29629	10.73	ug/L	95
5)	Chloroethane	3.10	64.0	25541	10.97	ug/L	95
6)	Methylene Chloride	4.85	84.0	50077	10.76	ug/L	74
7)	Acetone	4.06	43.0	26045	41.70	ug/L	69
8)	Carbon Disulfide	4.57	76.0	157517	13.53	ug/L	100
9)	1,1-Dichloroethene	4.13	96.0	47342	10.58	ug/L	92
10)	1,1-Dichloroethane	6.21	63.0	107353	11.08	ug/L	95
11)	cis-1,2-dichloroethene	5.49	96.0	58004	10.56	ug/L	90
12)	trans-1,2-dichloroethene	7.43	96.0	63559	10.98	ug/L	91
13)	Chloroform	7.98	83.0	153932	10.84	ug/L	96
14)	1,2-Dichloroethane	9.29	62.0	70735	10.66	ug/L	97
15)	2-Butanone	7.38	43.0	27977	39.99	ug/L	81
16)	Bromochloromethane	7.91	128.0	30236	10.82	ug/L	82
17)	Bromofluorobenzene	19.39	174.0	57060	4.83	ug/L	62
18)	*Chlorobenzene-d5	16.62	117.0	77775	5.00	ug/L	98
19)	1,1,1-Trichloroethane	8.58	97.0	168326	10.91	ug/L	81
20)	Carbon Tetrachloride	9.09	117.0	167940	10.52	ug/L	86
21)	Bromodichloromethane	11.69	83.0	100332	10.85	ug/L	89
22)	1,2-Dichloropropane	11.12	63.0	43746	10.47	ug/L	94
23)	cis-1,3-Dichloropropene	12.77	75.0	64820	7.90	ug/L	93
24)	Trichloroethene	10.79	95.0	94351	10.47	ug/L	96
25)	Dibromochloromethane	15.22	129.0	65707	11.81	ug/L	99
26)	1,1,2-Trichloroethane	14.32	97.0	28909	10.58	ug/L	93
27)	Benzene	9.36	78.0	147375	10.77	ug/L	88
28)	trans-1,3-Dichloropropene	13.97	75.0	48858	13.38	ug/L	99
29)	4-Methyl-2-Pentanone	12.98	43.0	102510	54.88	ug/L	82
30)	2-Hexanone	14.85	43.0	59578	42.57	ug/L	86
31)	Tetrachloroethene	14.94	166.0	164171	10.68	ug/L	90
32)	1,1,2,2-Tetrachloroethane	19.60	83.0	27806	10.45	ug/L	96
33)	1,2-Dibromoethane	15.52	107.0	42651M	10.64	ug/L	89
34)	Toluene	13.56	91.0	212975	10.10	ug/L	91
35)	Chlorobenzene	16.69	112.0	156245	10.75	ug/L	84
36)	Ethylbenzene	17.02	91.0	291330	10.91	ug/L	93
37)	Styrene	18.21	104.0	137825	10.36	ug/L	69
38)	Xylene (total)	18.17	106.0	88584	10.11	ug/L	89
39)	*1,4-dichlorobenzene-d4	22.16	152.0	50719	5.00	ug/L	81
40)	Bromoform	18.54	173.0	33879	11.24	ug/L	60
41)	1,3-Dichlorobenzene	22.00	146.0	159378	9.93	ug/L	93
42)	1,2-Dichlorobenzene	23.03	146.0	126058	9.91	ug/L	82
43)	1,4-Dichlorobenzene	22.20	146.0	165847	10.45	ug/L	83
44)	1,2-Dibromo-3-chloropropane	24.88	75.0	9873M	8.82	ug/L	

TOTAL ION CHROMATOGRAM



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Name: VSTD025
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920428 11:31

Operator ID: HP4A
Quant Time: 920429 15:48
Injected at: 920429 15:17

QUANT REPORT

Operator ID: HP4A
Output File: ^PLA25::SC
Data File: >PLA25::D4
Name: VSTD025
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920429 15:48
Injected at: 920429 15:17
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920428 11:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.17	114.0	107738	5.00	ug/L	100
2)	Chloromethane	2.47	50.0	42243	16.36	ug/L	97
3)	Bromomethane	2.98	94.0	116622	23.36	ug/L	83
4)	Vinyl Chloride	2.66	62.0	71308	19.69	ug/L	95
5)	Chloroethane	3.12	64.0	60998M	19.77	ug/L	91
6)	Methylene Chloride	4.85	84.0	113661	20.71	ug/L	75
7)	Acetone	4.06	43.0	70194	211.21	ug/L	67
8)	Carbon Disulfide	4.57	76.0	343311	23.92	ug/L	100
9)	1,1-Dichloroethene	4.13	96.0	116324	24.75	ug/L	92
10)	1,1-Dichloroethane	6.21	63.0	257139	22.90	ug/L	92
11)	cis-1,2-dichloroethene	5.49	96.0	148479	24.30	ug/L	90
12)	trans-1,2-dichloroethene	7.43	96.0	157288	22.30	ug/L	91
13)	Chloroform	8.00	83.0	401767	28.44	ug/L	95
14)	1,2-Dichloroethane	9.32	62.0	179889	32.88	ug/L	91
15)	2-Butanone	7.38	43.0	76685M	163.26	ug/L	81
16)	Bromochloromethane	7.93	128.0	78100	25.13	ug/L	92
17)	Bromofluorobenzene	19.39	174.0	64597	6.06	ug/L	67
18)	*Chlorobenzene-d5	16.62	117.0	95474	5.00	ug/L	94
19)	1,1,1-Trichloroethane	8.58	97.0	437418	28.69	ug/L	85
20)	Carbon Tetrachloride	9.09	117.0	450212	31.22	ug/L	78
21)	Bromodichloromethane	11.67	83.0	277437	24.63	ug/L	98
22)	1,2-Dichloropropane	11.14	63.0	109724	17.21	ug/L	93
23)	cis-1,3-Dichloropropene	12.77	75.0	170861	15.51	ug/L	95
24)	Trichloroethene	10.79	95.0	242650	22.13	ug/L	91
25)	Dibromochloromethane	15.24	129.0	186556	26.11	ug/L	99
26)	1,1,2-Trichloroethane	14.34	97.0	69332	19.45	ug/L	86
27)	Benzene	9.36	78.0	378848	17.62	ug/L	91
28)	trans-1,3-Dichloropropene	13.97	75.0	134869	29.11	ug/L	97
29)	4-Methyl-2-Pentanone	12.98	43.0	250879M	94.23	ug/L	86
30)	2-Hexanone	14.87	43.0	174483M	140.27	ug/L	83
31)	Tetrachloroethene	14.94	166.0	386897	24.98	ug/L	97
32)	1,1,2,2-Tetrachloroethane	19.60	83.0	73188M	19.28	ug/L	85
33)	1,2-Dibromoethane	15.52	107.0	113039M	22.59	ug/L	95
34)	Toluene	13.56	91.0	533096	19.26	ug/L	98
35)	Chlorobenzene	16.69	112.0	378253	19.37	ug/L	79
36)	Ethylbenzene	17.02	91.0	749202	21.02	ug/L	95
37)	Styrene	18.22	104.0	328613	19.06	ug/L	67
38)	Xylene (total)	18.19	106.0	206858	17.74	ug/L	85
39)	*1,4-dichlorobenzene-d4	22.16	152.0	55596	5.00	ug/L	73
40)	Bromoform	18.56	173.0	108065	28.84	ug/L	65
41)	1,3-Dichlorobenzene	22.00	146.0	412199	23.67	ug/L	94
42)	1,2-Dichlorobenzene	23.06	146.0	314340	22.58	ug/L	82
43)	1,4-Dichlorobenzene	22.23	146.0	404769	22.32	ug/L	84
44)	1,2-Dibromo-3-chloropropane	24.88	75.0	31610M	28.44	ug/L	

7LCA

LOW CONC. WATER VOLATILE CONTINUING CALIBRATION SUMMARY

Lab Name:S-CUBED Contract:32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Instrument ID: HP4 Calibration Date: 4/30/92 Time: 1131

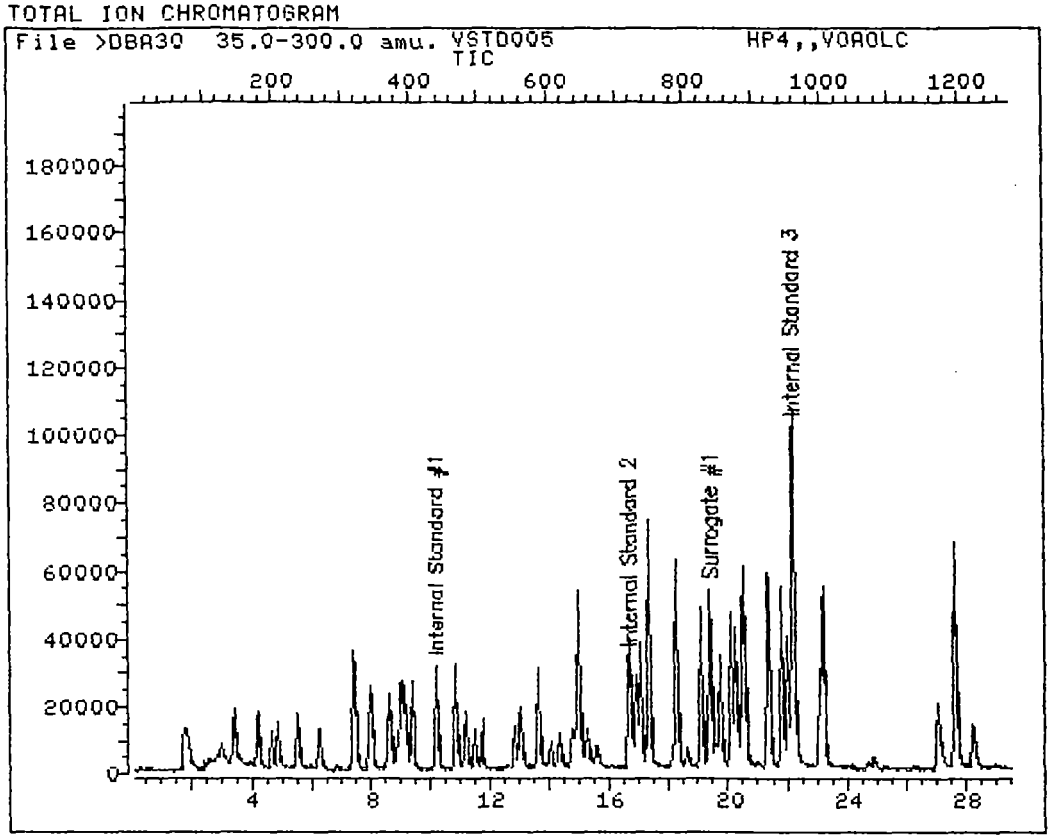
Lab File ID: DBA30 Init. Calib. Date(s):04/29/92 04/29/92

COMPOUND	RRF	RRF 5	MIN RRF	%D	MAX %D
Chloromethane	0.093	0.119		28.1	
Bromomethane	0.248	0.244	0.100	1.5	30.0
Vinyl Chloride	0.144	0.164	0.100	14.0	30.0
Chloroethane	0.129	0.123		4.4	
Methylene Chloride	0.311	0.272		12.3	
Acetone	0.032	0.015		53.3	
Carbon Disulfide	0.661	0.521		21.1	
1,1-Dichloroethene	0.239	0.229	0.100	4.2	30.0
1,1-Dichloroethane	0.516	0.501	0.200	3.0	30.0
cis-1,2-dichloroethene	0.298	0.271	0.100	8.8	30.0
trans-1,2-dichloroethene	0.318	0.305		3.9	
Chloroform	0.749	0.730	0.200	2.5	30.0
1,2-Dichloroethane	0.353	0.357	0.100	1.1	30.0
2-Butanone	0.034	0.018		46.3	
Bromochloromethane	0.151	0.155	0.050	2.6	30.0
1,1,1-Trichloroethane	1.022	1.077	0.100	5.4	30.0
Carbon Tetrachloride	1.017	0.991	0.100	2.5	30.0
Bromodichloromethane	0.608	0.617	0.200	1.5	30.0
1,2-Dichloropropane	0.290	0.318		9.8	
cis-1,3-Dichloropropene	0.407	0.409	0.200	0.6	30.0
Trichloroethene	0.610	0.641	0.300	5.1	30.0
Dibromochloromethane	0.379	0.342	0.100	9.6	30.0
1,1,2-Trichloroethane	0.181	0.182	0.100	0.5	30.0
Benzene	0.962	1.014	0.500	5.4	30.0
trans-1,3-Dichloropropene	0.312	0.267	0.100	14.3	30.0
Bromoform	0.324	0.245	0.050	24.4	30.0
4-Methyl-2-Pentanone	0.140	0.148		5.6	
2-Hexanone	0.093	0.057		38.5	
Tetrachloroethene	1.039	1.060	0.200	2.1	30.0
1,1,2,2-Tetrachloroethane	0.185	0.164	0.100	11.5	30.0
1,2-Dibromoethane	0.276	0.286	0.100	3.7	30.0
Toluene	1.422	1.326	0.400	6.7	30.0
Chlorobenzene	1.016	0.938	0.500	7.7	30.0
Ethylbenzene	1.879	1.658	0.100	11.7	30.0
Styrene	0.912	0.888	0.300	2.7	30.0
Xylene (total)	0.604	0.608	0.300	0.8	30.0
1,3-Dichlorobenzene	1.744	1.660	0.600	4.8	30.0
1,4-Dichlorobenzene	1.769	1.582	0.500	10.6	30.0
1,2-Dichlorobenzene	1.454	1.289	0.400	11.3	30.0
1,2-Dibromo-3-chloropropane	0.111	0.088		21.0	
Bromofluorobenzene	0.581	0.519	0.200	10.6	30.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII LCV 4/90

TOTAL ION CHROMATOGRAM



Data File: >DBA30::D3 Quant Output File: ^DBA30::SC
Name: VSTD005
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 11:52

Operator ID: HP4A
Quant Time: 920430 12:01
Injected at: 920430 11:31

QUANT REPORT

Operator ID: HP4A
Output File: ^DBA30::SC
Data File: >DBA30::D3
Name: VSTD005
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920430 12:01
Injected at: 920430 11:31
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 11:52

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.20	114.0	77131	5.00	ug/L	100
2)	Chloromethane	2.45	50.0	9202	4.95	ug/L	98
3)	Bromomethane	3.01	94.0	18826	5.37	ug/L	92
4)	Vinyl Chloride	2.62	62.0	12666	5.73	ug/L	87
5)	Chloroethane	3.01	64.0	9505M	5.24	ug/L	81
6)	Methylene Chloride	4.85	84.0	21015	5.44	ug/L	63
7)	Acetone	4.07	43.0	5708	25.80	ug/L	63
8)	Carbon Disulfide	4.60	76.0	40193	5.45	ug/L	100
9)	1,1-Dichloroethene	4.16	96.0	17691	5.62	ug/L	94
10)	1,1-Dichloroethane	6.21	63.0	38646	5.36	ug/L	92
11)	cis-1,2-dichloroethene	5.52	96.0	20936	5.03	ug/L	92
12)	trans-1,2-dichloroethene	7.46	96.0	23544	5.24	ug/L	91
13)	Chloroform	8.01	83.0	56323	5.25	ug/L	91
14)	1,2-Dichloroethane	9.32	62.0	27530	5.29	ug/L	95
15)	2-Butanone	7.43	43.0	7106	35.07	ug/L	79
16)	Bromochloromethane	7.94	128.0	11970	5.44	ug/L	77
17)	Bromofluorobenzene	19.42	174.0	40054	4.13	ug/L	55
18)	*Chlorobenzene-d5	16.65	117.0	52687	5.00	ug/L	93
19)	1,1,1-Trichloroethane	8.61	97.0	56746	5.82	ug/L	81
20)	Carbon Tetrachloride	9.09	117.0	52235	5.65	ug/L	84
21)	Bromodichloromethane	11.69	83.0	32513	5.60	ug/L	89
22)	1,2-Dichloropropane	11.17	63.0	16768	5.81	ug/L	93
23)	cis-1,3-Dichloropropene	12.80	75.0	21572	4.24	ug/L	98
24)	Trichloroethene	10.82	95.0	33775	5.89	ug/L	89
25)	Dibromochloromethane	15.24	129.0	18034	5.37	ug/L	92
26)	1,1,2-Trichloroethane	14.35	97.0	9571	5.01	ug/L	92
27)	Benzene	9.37	78.0	53438	5.72	ug/L	86
28)	trans-1,3-Dichloropropene	14.00	75.0	14094	5.85	ug/L	95
29)	4-Methyl-2-Pentanone	13.01	43.0	39064	26.31	ug/L	78
30)	2-Hexanone	14.88	43.0	15022	30.84	ug/L	81
31)	Tetrachloroethene	14.97	166.0	55872	5.65	ug/L	99
32)	1,1,2,2-Tetrachloroethane	19.63	83.0	8643	4.88	ug/L	88
33)	1,2-Dibromoethane	15.54	107.0	15094	5.31	ug/L	99
34)	Toluene	13.58	91.0	69877	5.44	ug/L	90
35)	Chlorobenzene	16.72	112.0	49407	4.82	ug/L	82
36)	Ethylbenzene	17.04	91.0	87382	4.91	ug/L	93
37)	Styrene	18.24	104.0	46765	5.40	ug/L	67
38)	Xylene (total)	18.20	106.0	32049	5.62	ug/L	90
39)	*1,4-dichlorobenzene-d4	22.19	152.0	35797	5.00	ug/L	86
40)	Bromoform	18.57	173.0	8765	4.79	ug/L	54
41)	1,3-Dichlorobenzene	22.03	146.0	59411	5.32	ug/L	86
42)	1,2-Dichlorobenzene	23.06	146.0	46153	5.58	ug/L	77
43)	1,4-Dichlorobenzene	22.23	146.0	56625	5.26	ug/L	83
44)	1,2-Dibromo-3-chloropropane	24.91	75.0	3137M	5.28	ug/L	

7LCA

LOW CONC. WATER VOLATILE CONTINUING CALIBRATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702 HQ SDG No.: 2900

Instrument ID: HP4 Calibration Date: 5/01/92 Time: 1754

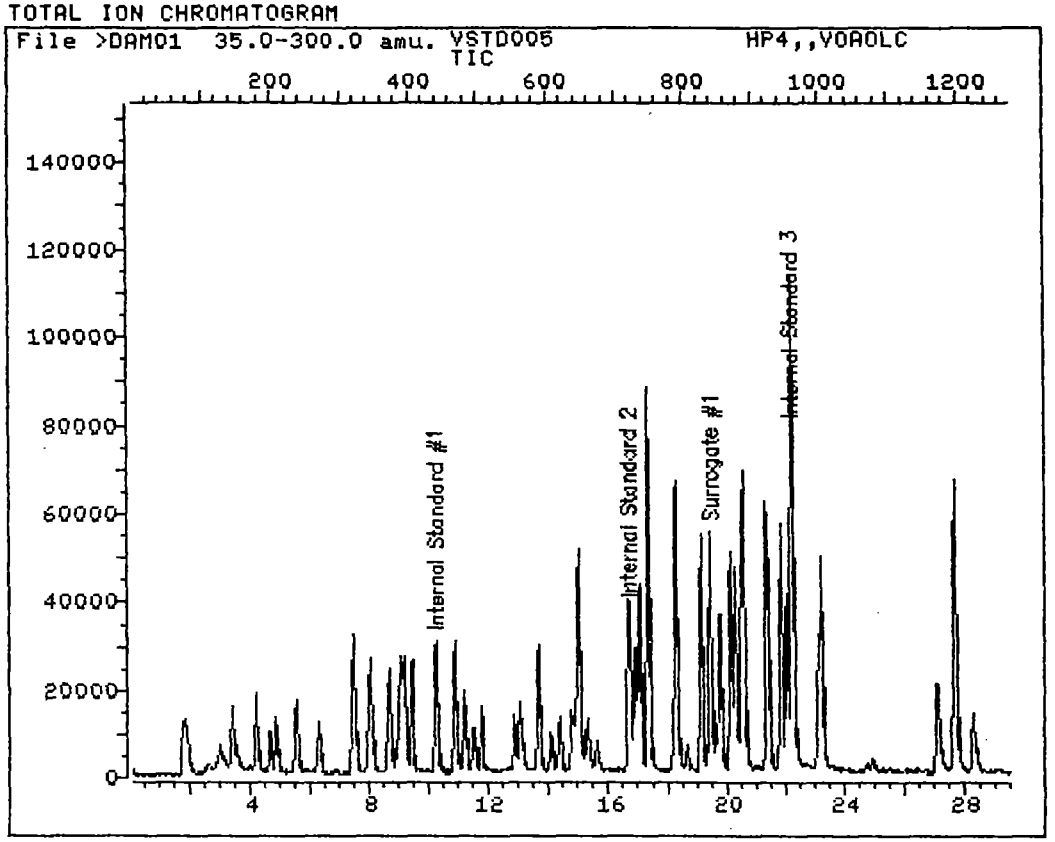
Lab File ID: DAM01 Init. Calib. Date(s): 04/29/92 04/29/92

COMPOUND	RRF	RRF 5	MIN RRF	%D	MAX %D
Chloromethane	0.093	0.078		16.0	
Bromomethane	0.248	0.243	0.100	2.0	30.0
Vinyl Chloride	0.144	0.120	0.100	16.8	30.0
Chloroethane	0.129	0.120		7.1	
Methylene Chloride	0.311	0.240		22.6	
Acetone	0.032	0.024		24.4	
Carbon Disulfide	0.661	0.484		26.7	
1,1-Dichloroethene	0.239	0.218	0.100	9.0	30.0
1,1-Dichloroethane	0.516	0.507	0.200	1.8	30.0
cis-1,2-dichloroethene	0.298	0.266	0.100	10.7	30.0
trans-1,2-dichloroethene	0.318	0.272		14.4	
Chloroform	0.749	0.835	0.200	11.5	30.0
1,2-Dichloroethane	0.353	0.451	0.100	27.9	30.0
2-Butanone	0.034	0.023		32.3	
Bromochloromethane	0.151	0.148	0.050	2.4	30.0
1,1,1-Trichloroethane	1.022	1.082	0.100	5.9	30.0
Carbon Tetrachloride	1.017	1.095	0.100	7.6	30.0
Bromodichloromethane	0.608	0.573	0.200	5.7	30.0
1,2-Dichloropropane	0.290	0.289		0.4	
cis-1,3-Dichloropropene	0.407	0.372	0.200	8.5	30.0
Trichloroethene	0.610	0.626	0.300	2.6	30.0
Dibromochloromethane	0.379	0.337	0.100	11.0	30.0
1,1,2-Trichloroethane	0.181	0.200	0.100	10.8	30.0
Benzene	0.962	0.980	0.500	1.8	30.0
trans-1,3-Dichloropropene	0.312	0.286	0.100	8.3	30.0
Bromoform	0.324	0.238	0.050	26.5	30.0
4-Methyl-2-Pentanone	0.140	0.137		2.2	
2-Hexanone	0.093	0.065		30.4	
Tetrachloroethene	1.039	0.990	0.200	4.8	30.0
1,1,2,2-Tetrachloroethane	0.185	0.168	0.100	9.4	30.0
1,2-Dibromoethane	0.276	0.288	0.100	4.2	30.0
Toluene	1.422	1.284	0.400	9.7	30.0
Chlorobenzene	1.016	0.965	0.500	4.9	30.0
Ethylbenzene	1.879	1.982	0.100	5.5	30.0
Styrene	0.912	0.905	0.300	0.9	30.0
Xylene (total)	0.604	0.639	0.300	5.9	30.0
1,3-Dichlorobenzene	1.744	1.551	0.600	11.1	30.0
1,4-Dichlorobenzene	1.769	1.608	0.500	9.1	30.0
1,2-Dichlorobenzene	1.454	0.996	0.400	31.5	30.0
1,2-Dibromo-3-chloropropane	0.111	0.094		15.3	
Bromofluorobenzene	0.581	0.556	0.200	4.2	30.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII LCV 4/90

TOTAL ION CHROMATOGRAM



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Name: VSTD005
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920501 13:02

Operator ID: HP4B
Quant Time: 920501 18:24
Injected at: 920501 17:54

QUANT REPORT

Operator ID: HP4B
Output File: ^DAM01::SC
Data File: >DAM01::D2
Name: VSTD005
Misc: HP4,,VOAOLC

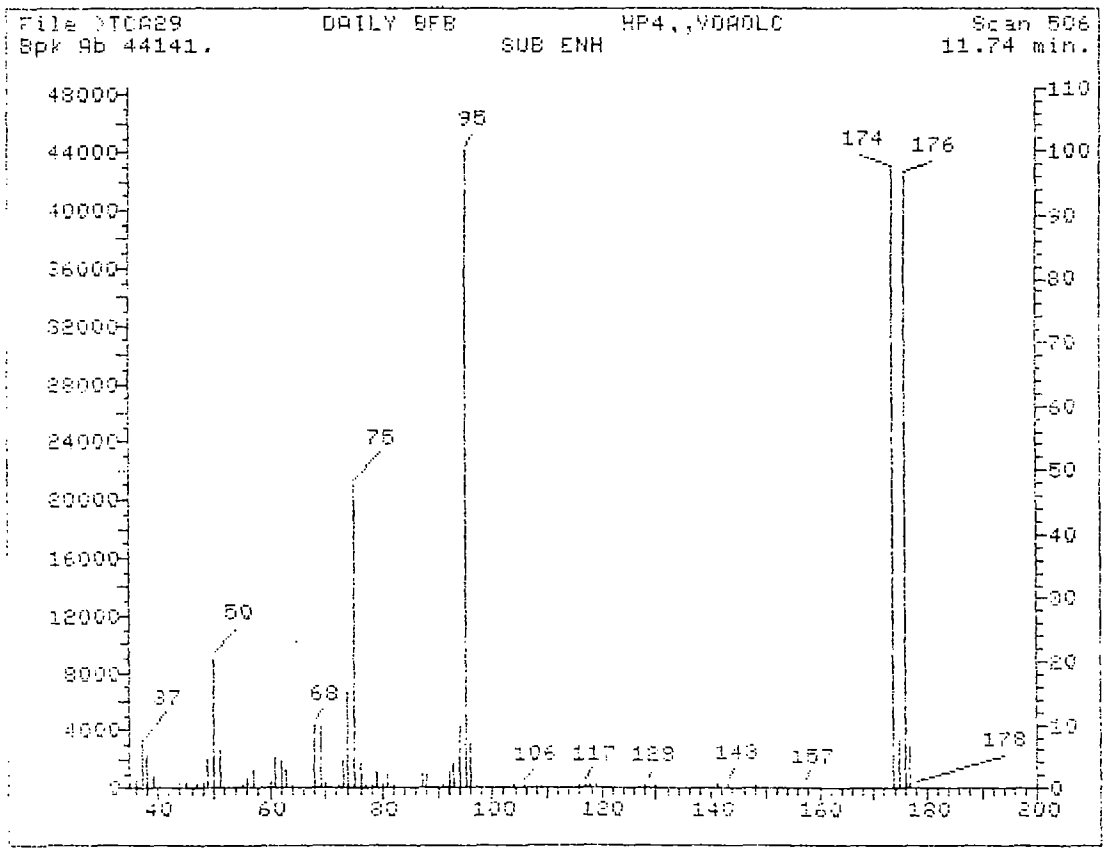
Quant Rev: 6
Quant Time: 920501 18:24
Injected at: 920501 17:54
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920501 13:02

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.23	114.0	72589	5.00	ug/L	100
2)	Chloromethane	2.47	50.0	5674	5.81	ug/L	93
3)	Bromomethane	3.00	94.0	17631	3.86	ug/L	92
4)	Vinyl Chloride	2.63	62.0	8693	4.42	ug/L	91
5)	Chloroethane	3.16	64.0	8691M	5.58	ug/L	87
6)	Methylene Chloride	4.89	84.0	17440	4.98	ug/L	72
7)	Acetone	4.11	43.0	8705M	932.47	ug/L	78
8)	Carbon Disulfide	4.64	76.0	35122	4.63	ug/L	100
9)	1,1-Dichloroethene	4.18	96.0	15807	4.61	ug/L	91
10)	1,1-Dichloroethane	6.25	63.0	36806	5.13	ug/L	95
11)	cis-1,2-dichloroethene	5.53	96.0	19305	5.13	ug/L	84
12)	trans-1,2-dichloroethene	7.47	96.0	19742	5.41	ug/L	89
13)	Chloroform	8.05	83.0	60636	5.16	ug/L	95
14)	1,2-Dichloroethane	9.36	62.0	32755	5.03	ug/L	96
15)	2-Butanone	7.45	43.0	8425	17.41	ug/L	94
16)	Bromochloromethane	7.98	128.0	10707	4.23	ug/L	92
17)	Bromofluorobenzene	19.45	174.0	40390	4.27	ug/L	64
18)	*Chlorobenzene-d5	16.69	117.0	51294	5.00	ug/L	99
19)	1,1,1-Trichloroethane	8.64	97.0	55481	4.90	ug/L	67
20)	Carbon Tetrachloride	9.13	117.0	56141	5.88	ug/L	74
21)	Bromodichloromethane	11.73	83.0	29401	5.23	ug/L	89
22)	1,2-Dichloropropane	11.18	63.0	14809	5.16	ug/L	95
23)	cis-1,3-Dichloropropene	12.84	75.0	19097	1.93	ug/L	92
24)	Trichloroethene	10.86	95.0	32099	5.82	ug/L	94
25)	Dibromochloromethane	15.28	129.0	17283	4.81	ug/L	92
26)	1,1,2-Trichloroethane	14.38	97.0	10271	5.25	ug/L	91
27)	Benzene	9.41	78.0	50243	5.77	ug/L	82
28)	trans-1,3-Dichloropropene	14.01	75.0	14673	13.06	ug/L	96
29)	4-Methyl-2-Pentanone	13.02	43.0	35216	30.10	ug/L	82
30)	2-Hexanone	14.91	43.0	16544	19.71	ug/L	76
31)	Tetrachloroethene	14.98	166.0	50756	5.59	ug/L	85
32)	1,1,2,2-Tetrachloroethane	19.64	83.0	8608	4.80	ug/L	97
33)	1,2-Dibromoethane	15.58	107.0	14760	4.90	ug/L	92
34)	Toluene	13.62	91.0	65847	5.32	ug/L	93
35)	Chlorobenzene	16.76	112.0	49521	5.27	ug/L	80
36)	Ethylbenzene	17.08	91.0	101683	5.88	ug/L	95
37)	Styrene	18.26	104.0	46401	5.27	ug/L	58
38)	Xylene (total)	18.23	106.0	32776	5.88	ug/L	87
39)	*1,4-dichlorobenzene-d4	22.20	152.0	36483	5.00	ug/L	90
40)	Bromoform	18.60	173.0	8687	4.23	ug/L	52
41)	1,3-Dichlorobenzene	22.04	146.0	56572	5.53	ug/L	92
42)	1,2-Dichlorobenzene	23.10	146.0	36340	4.66	ug/L	91
43)	1,4-Dichlorobenzene	22.27	146.0	58674M	5.50	ug/L	86
44)	1,2-Dibromo-3-chloropropane	24.94	75.0	3427M	9.48	ug/L	

Date and Time of analysis: 4/29/92 12:31

Tune data file name: >TCA29::D4



Date and Time of analysis: 4/29/92 12:31

Tune data file name: >TCA29::D4

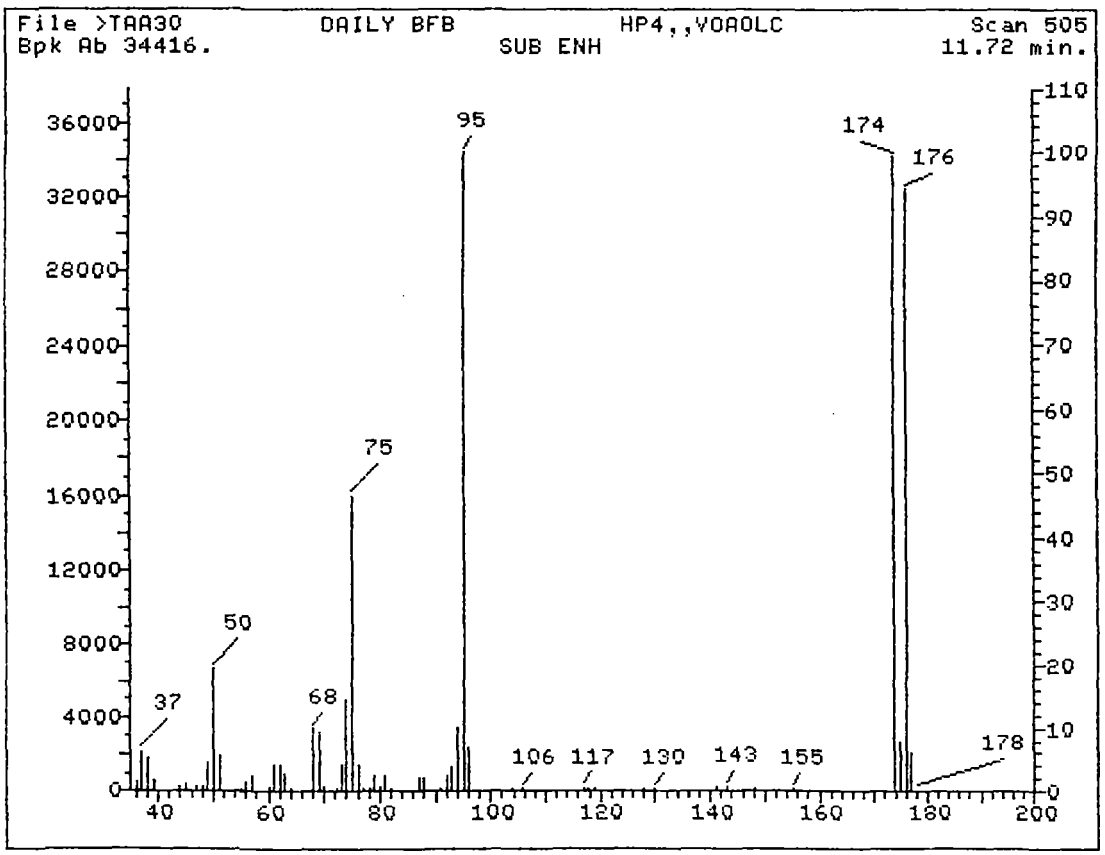
>TCA29 DAILY BFB HP4,,VOAOLC
506 SUB NRM ENH

File: >TCA29 Scan #: 506 Retn. time: 11.74

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	1.225	57.90	.105	79.00	2.575	105.00	.066	142.95	.736
37.10	6.758	60.00	.958	79.90	.684	105.90	.424	143.85	.017
38.10	5.198	61.00	4.690	80.90	2.583	114.85	.119	145.95	.185
39.10	1.733	62.10	4.132	82.00	.471	115.95	.335	146.95	.032
42.90	.036	63.10	2.756	83.00	.028	116.95	.520	147.95	.274
44.00	.889	64.00	.299	85.90	.042	117.85	.347	152.95	.112
45.00	1.127	68.00	9.827	87.00	2.056	118.95	.438	154.95	.186
46.00	.021	69.00	9.683	88.00	2.059	127.95	.369	156.95	.202
47.00	.623	70.00	.757	90.90	.401	128.95	.179	158.85	.079
48.00	.748	72.10	.532	92.00	2.577	129.95	.353	160.85	.045
49.10	4.638	73.00	4.062	93.00	3.749	130.95	.098	173.95	96.913
50.10	20.119	74.00	14.898	94.10	9.911	134.85	.167	174.95	7.576
51.10	5.980	75.10	47.707	95.10	100.000	137.05	.135	175.95	95.971
52.00	.229	76.10	4.049	96.10	6.893	139.85	.065	176.95	6.487
55.00	.338	77.00	.514	97.10	.216	140.95	.690	177.95	.209
56.00	1.452	78.00	.334	103.90	.375	142.05	.129	207.05	.005
57.00	2.644								

Date and Time of analysis: 4/30/92 10:10

Tune data file name: >TAA30::D3



Date and Time of analysis: 4/30/92 10:10

Tune data file name: >TAA30::D3

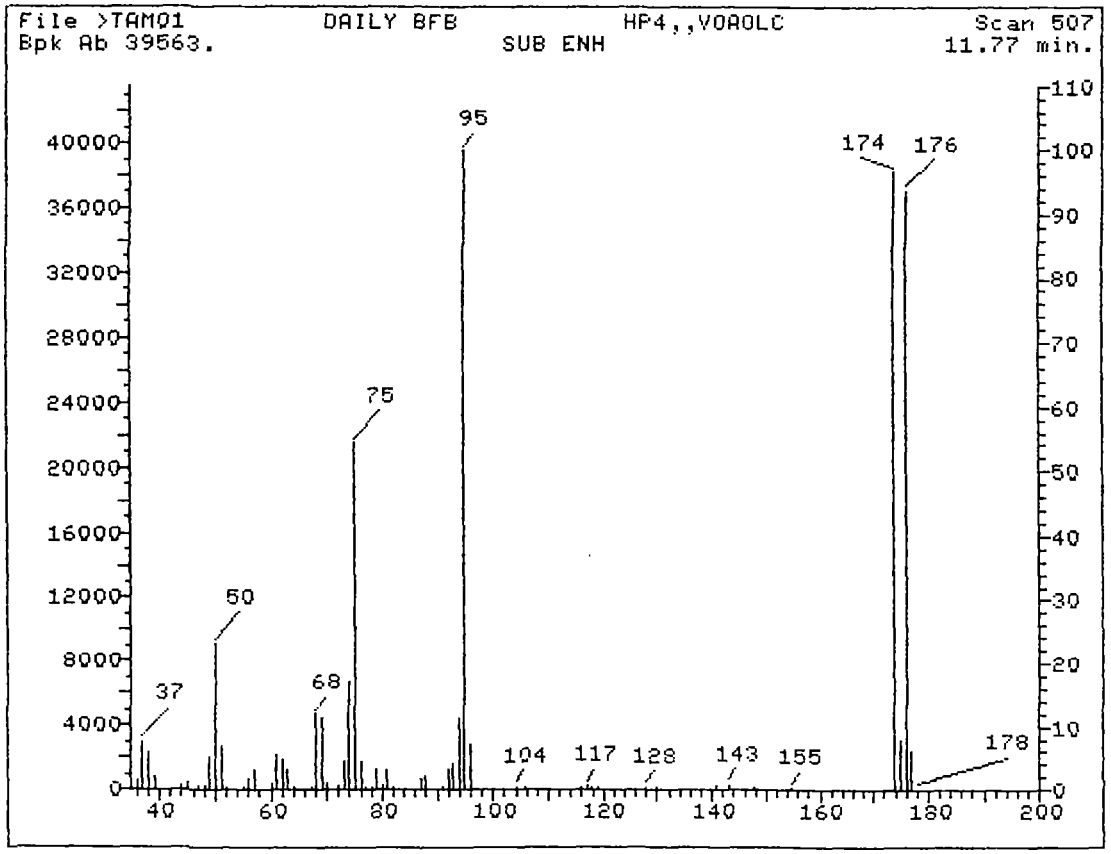
>TAA30 DAILY BFB HP4,,VOAOLC
505 SUB NRM ENH

File: >TAA30 Scan #: 505 Retn. time: 11.72

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	1.351	58.10	.080	78.00	.397	105.90	.368	142.95	.708
37.00	6.292	60.00	.913	78.90	2.487	114.85	.051	147.95	.275
38.10	5.105	61.10	4.208	80.00	.595	115.95	.167	149.85	.029
39.10	1.676	62.10	4.016	81.00	2.396	116.85	.469	155.05	.290
44.00	.656	63.00	2.750	81.90	.509	117.85	.353	156.95	.110
45.00	.939	64.10	.277	86.00	.031	118.95	.393	160.95	.101
47.10	.649	68.00	9.873	87.00	2.264	121.75	.029	171.45	.131
48.00	.693	69.00	9.267	88.00	2.108	127.95	.332	172.05	.108
49.00	4.578	70.10	.752	91.00	.351	128.95	.136	173.95	99.310
50.10	19.189	72.10	.523	92.00	2.384	129.95	.376	174.95	7.927
51.10	5.611	73.00	4.145	93.00	3.634	134.95	.169	175.95	94.289
52.00	.238	74.00	14.182	94.10	9.908	136.85	.095	176.95	6.291
55.00	.302	75.00	46.409	95.10	100.000	139.75	.037	177.95	.208
56.00	1.466	76.10	4.065	96.10	6.765	140.95	.665	207.05	.225
57.10	2.501	77.00	.589	103.90	.354	141.95	.034		

Date and Time of analysis: 5/01/92 9:53

Tune data file name: >TAM01::D3



Date and Time of analysis: 5/01/92 9:53

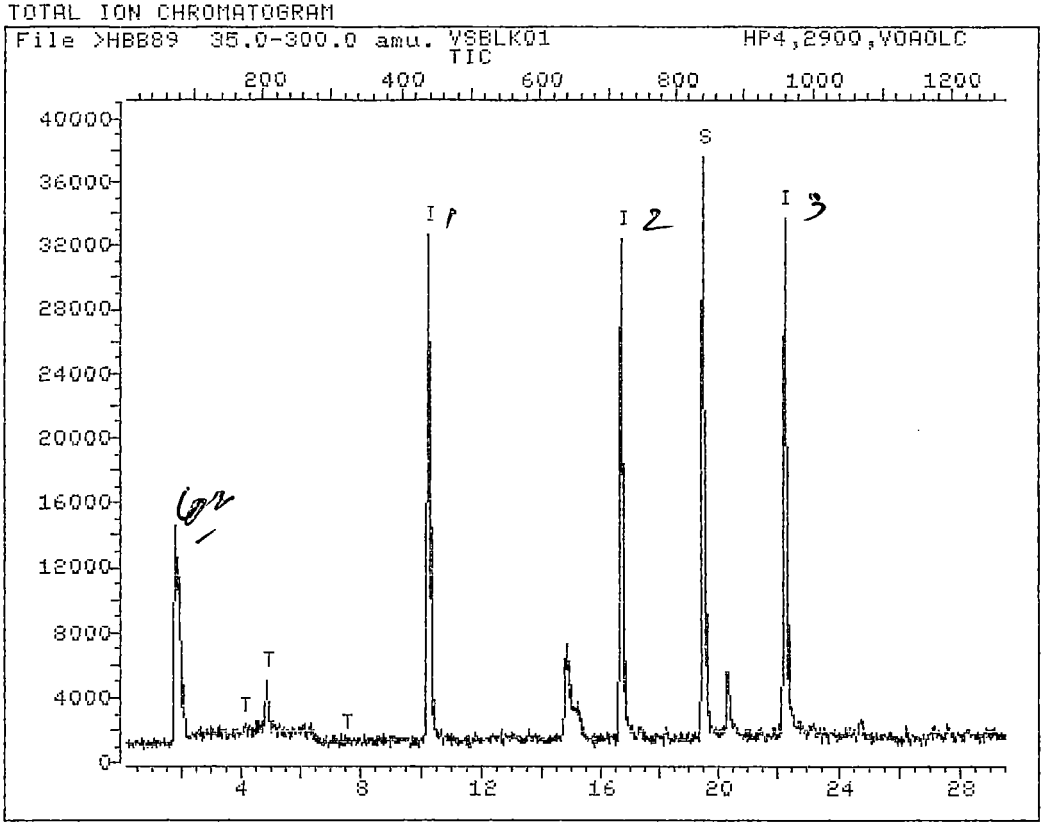
Tune data file name: >TAM01::D3

>TAM01 DAILY BFB HP4,,VOAOLC
507 SUB NRM ENH

File: >TAM01 Scan #: 507 Retn. time: 11.77

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.10	1.589	56.00	1.735	78.00	.409	105.90	.449	147.85	.289
37.00	7.599	57.00	3.024	78.90	3.118	107.00	.096	149.95	.142
38.10	5.878	60.00	1.175	80.00	.738	111.95	.026	152.85	.123
39.10	2.116	61.00	5.346	80.90	3.013	114.95	.162	153.85	.115
40.00	.031	62.00	4.927	82.00	.554	115.85	.328	154.35	.021
43.00	.126	63.00	3.184	87.00	1.825	116.95	.670	154.85	.293
44.00	.830	64.10	.318	88.00	2.025	117.85	.355	157.05	.198
45.10	1.223	67.10	.473	90.90	.450	118.95	.436	158.85	.130
46.00	.022	68.00	11.769	92.00	3.063	127.95	.440	160.85	.099
46.50	.063	69.00	11.280	93.00	4.124	129.85	.376	170.55	.029
47.10	.650	70.10	.930	94.00	11.081	130.85	.102	171.75	.102
48.00	.838	72.00	.595	95.00	100.000	134.85	.177	173.95	96.562
49.00	5.322	73.00	4.503	96.10	7.094	136.85	.164	174.95	8.016
50.10	22.953	74.00	16.991	97.00	.247	140.05	.065	175.95	93.704
51.10	6.741	75.00	54.476	103.00	.024	140.85	.746	176.95	6.153
52.10	.345	76.10	4.476	104.00	.456	142.95	.877	177.95	.174
55.10	.345	77.00	.458	105.00	.202	145.85	.170		

TOTAL ION CHROMATOGRAM



Data File: >HBB89::D3 Quant Output File: ^HBB89::SC
Name: VSBLK01
Misc: HP4,2900,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 11:56

Operator ID: HP4A
Quant Time: 920506 12:06
Injected at: 920430 13:26

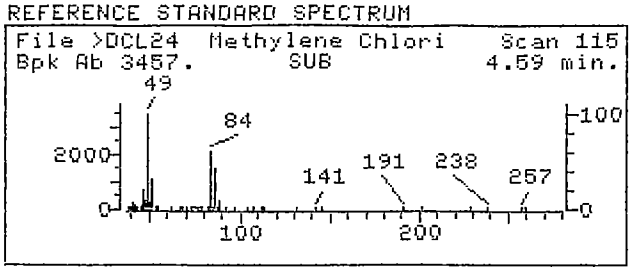
QUANT REPORT

Operator ID: HP4A Quant Rev: 6 Quant Time: 920506 12:06
Output File: ^HBB89::SC Injected at: 920430 13:26
Data File: >HBB89::D3 Dilution Factor: 1.00000
Name: VSBLK01
Misc: HP4,2900,VOAOLC

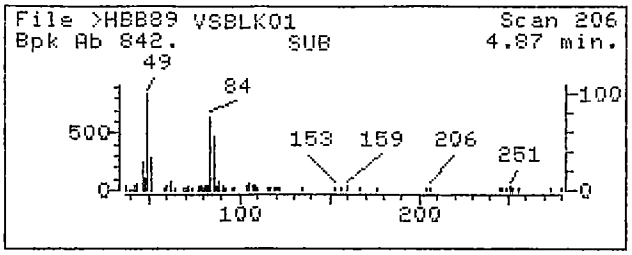
ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 11:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.21	114.0	82814	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	4.87	84.0	4409	.98	ug/L	86
7)	Acetone	4.08	43.0	2218	9.05	ug/L	82
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	5/6/92
15)	2-Butanone	7.45	43.0	371	~~1.22~~	~~ug/L~~	83
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.42	174.0	44347	5.16	ug/L	50
18)	*Chlorobenzene-d5	16.66	117.0	60592	5.00	ug/L	92
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.18	152.0	34612	5.00	ug/L	93
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

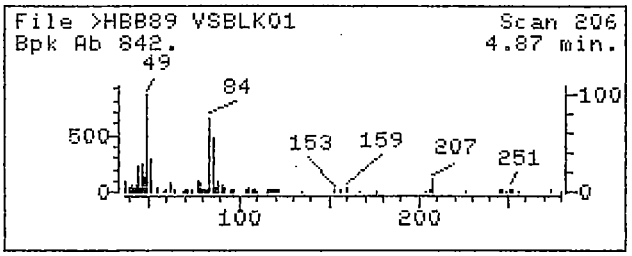
REFERENCE STANDARD SPECTRUM

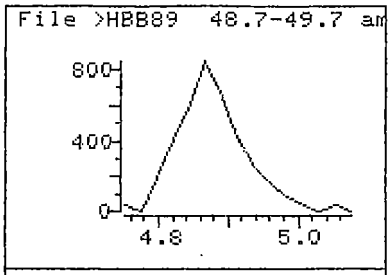


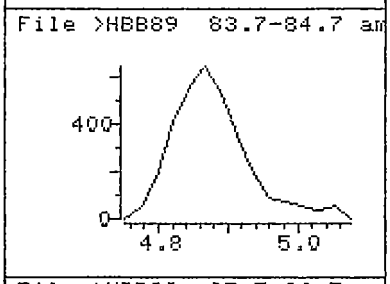
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

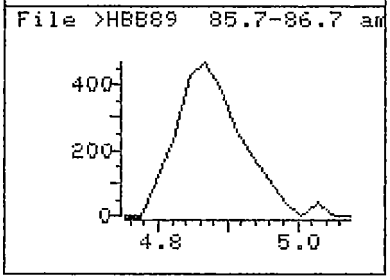


SAMPLE SPECTRUM (UNALTERED)





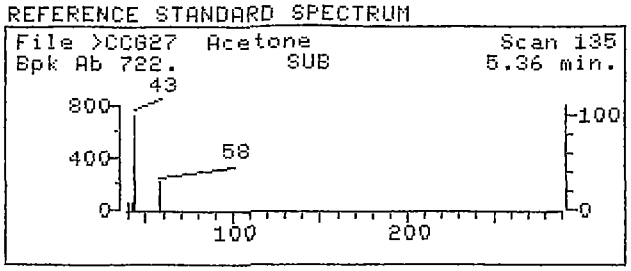




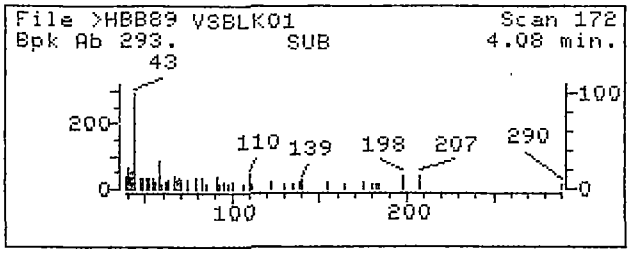
Data File: >HBB89::D3 Quant Output File: ^HBB89::SC
Name: VSBLK01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:06 Quant ID File: IDCAP::QT
Injected at: 920430 13:26 Last Calibration: 920506 11:56

Compound No: 6
Compound Name: Methylene Chloride
Scan Number: 206
Retention Time: 4.87 min.
Quant Ion: 84.0
Area: 4409
Concentration: .98 ug/L
q-value: 86

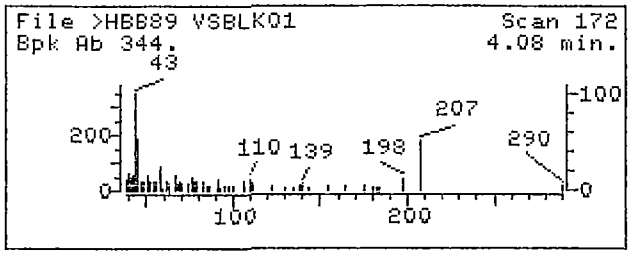
REFERENCE STANDARD SPECTRUM

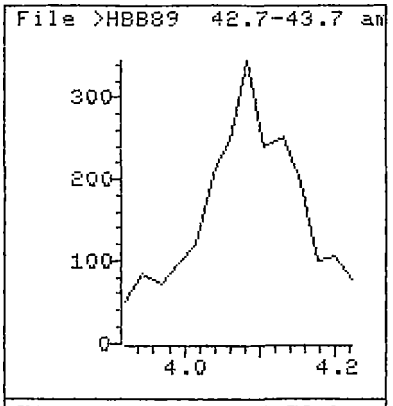


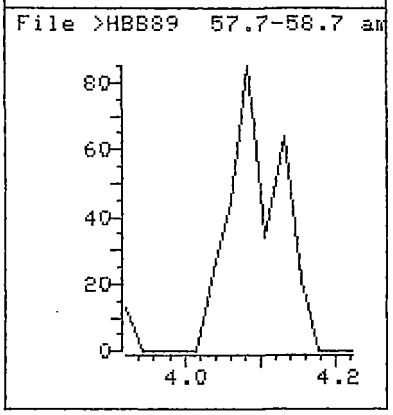
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







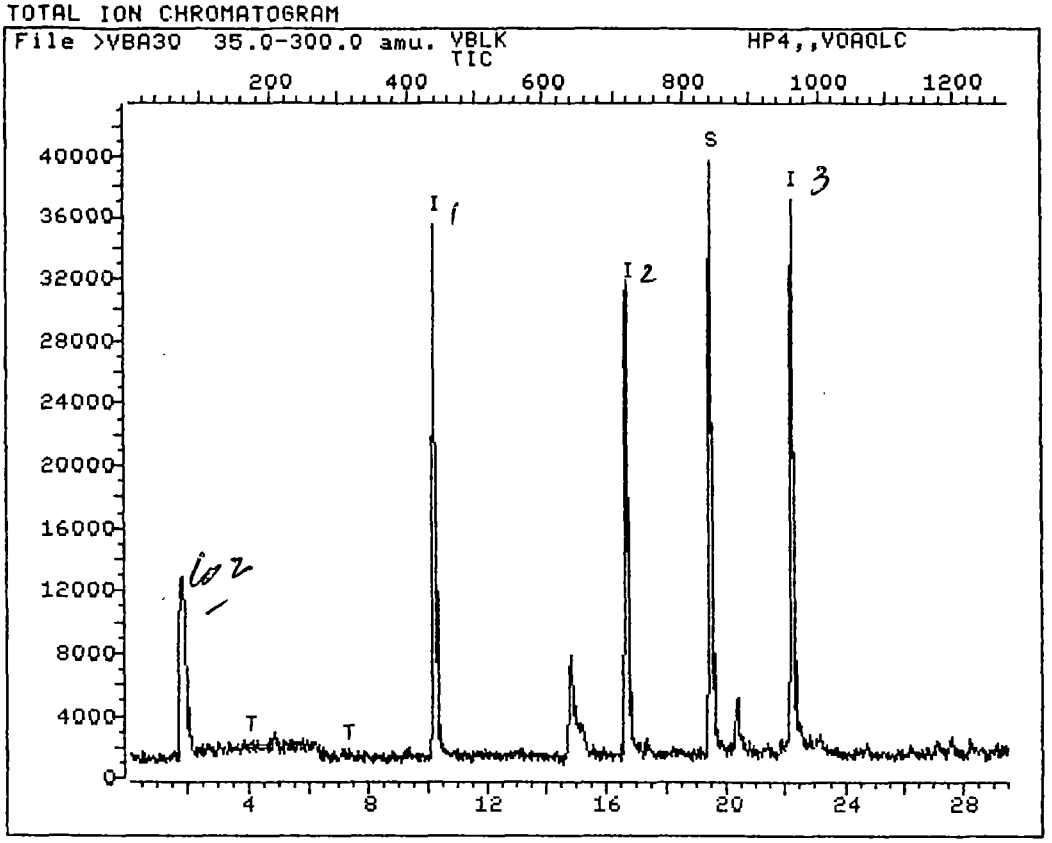
Data File: >HBB89::D3
Name: VSBLK01
Misc: HP4,2900,VOAOLC
Quant Time: 920506 12:06
Injected at: 920430 13:26

Quant Output File: ^HBB89::SC

Quant ID File: IDCAP::QT
Last Calibration: 920506 11:56

Compound No: 7
Compound Name: Acetone
Scan Number: 172
Retention Time: 4.08 min.
Quant Ion: 43.0
Area: 2218
Concentration: 9.05 ug/L
q-value: 82

TOTAL ION CHROMATOGRAM



Data File: >VBA30::D3 Quant Output File: ^VBA30::SC
Name: VBLK 01 PM 5/11/92
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

Operator ID: HP4A
Quant Time: 920430 13:18
Injected at: 920430 12:48

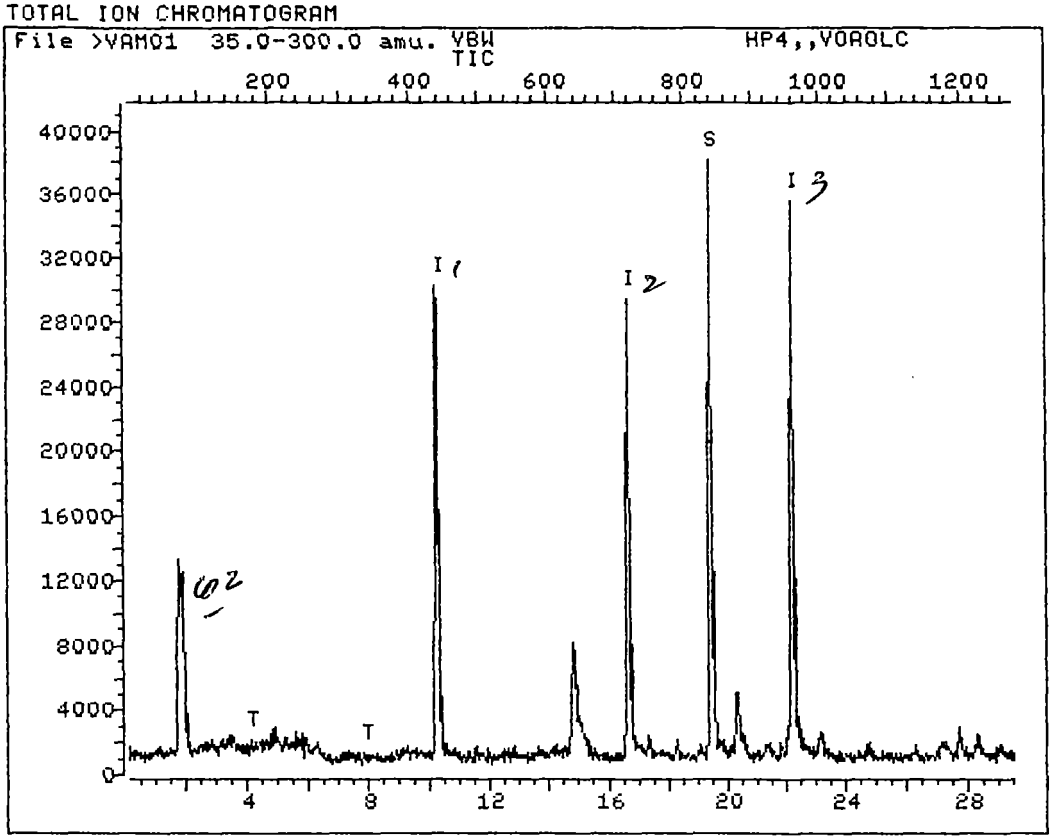
QUANT REPORT

Operator ID: HP4A Quant Rev: 6 Quant Time: 920430 13:18
Output File: ^VBA30::SC Injected at: 920430 12:48
Data File: >VBA30::D3 Dilution Factor: 1.00000
Name: VBLK01
Misc: HP4,,VOAOLC

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920430 12:42

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.19	114.0	87391	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	3.95	43.0	402	~~1.55~~	~~ug/L~~ es 4/30/92	91
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	7.24	43.0	314	~~.98~~	~~ug/L~~ es 4/30/92	92
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.42	174.0	46474	5.12	ug/L	55
18)	*Chlorobenzene-d5	16.63	117.0	62028	5.00	ug/L	94
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.18	152.0	40138	5.00	ug/L	86
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

TOTAL ION CHROMATOGRAM



Data File: >VAM01::D2 Quant Output File: ^VAM01::SC
Name: ~~VBW~~ VBLK02 pm 5/11/92
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 10:23

Operator ID: HP4B
Quant Time: 920506 10:24
Injected at: 920501 19:11

QUANT REPORT

Operator ID: HP4B
Output File: ^VAM01::SC
Data File: >VAM01::D2
Name: ~~VBW02~~ VBLK02 pm 5/11/92
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920506 10:24
Injected at: 920501 19:11
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920506 10:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.21	114.0	72609	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	0.00	62.0	0	0.00	ug/L	
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	0.00	84.0	0	0.00	ug/L	
7)	Acetone	4.11	43.0	808	~~2.32~~	~~ug/L~~	82
8)	Carbon Disulfide	0.00	76.0	0	0.00	ug/L	
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	0.00	62.0	0	0.00	ug/L	
15)	2-Butanone	7.86	43.0	200	~~.59~~	~~ug/L~~	82
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.44	174.0	41067	5.08	ug/L	57
18)	*Chlorobenzene-d5	16.66	117.0	55460	5.00	ug/L	93
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	0.00	117.0	0	0.00	ug/L	
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	0.00	63.0	0	0.00	ug/L	
23)	cis-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
24)	Trichloroethene	0.00	95.0	0	0.00	ug/L	
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	0.00	97.0	0	0.00	ug/L	
27)	Benzene	0.00	78.0	0	0.00	ug/L	
28)	trans-1,3-Dichloropropene	0.00	75.0	0	0.00	ug/L	
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	0.00	166.0	0	0.00	ug/L	
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	0.00	107.0	0	0.00	ug/L	
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.21	152.0	32806	5.00	ug/L	81
40)	Bromoform	0.00	173.0	0	0.00	ug/L	
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW2900

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: LCSW2900
Sample wt/vol: 25.00 g/ml) ML Lab File ID: LBM01
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 5/1/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	6	X
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.9	J
67-64-1	Acetone	1	J
75-15-0	Carbon Disulfide	3	
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	4	X
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	5	X
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	5	X
10061-01-5	cis-1,3-Dichloropropene	3	X
79-01-6	Trichloroethene	5	X
124-48-1	Dibromochloromethane	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
79-00-5	1,1,2-Trichloroethane	4	X
71-43-2	Benzene	5	X
10061-02-6	trans-1,3-Dichloropropene	2	X
75-25-2	Bromoform	4	X
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	X
106-93-4	1,2-Dibromoethane	4	X
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

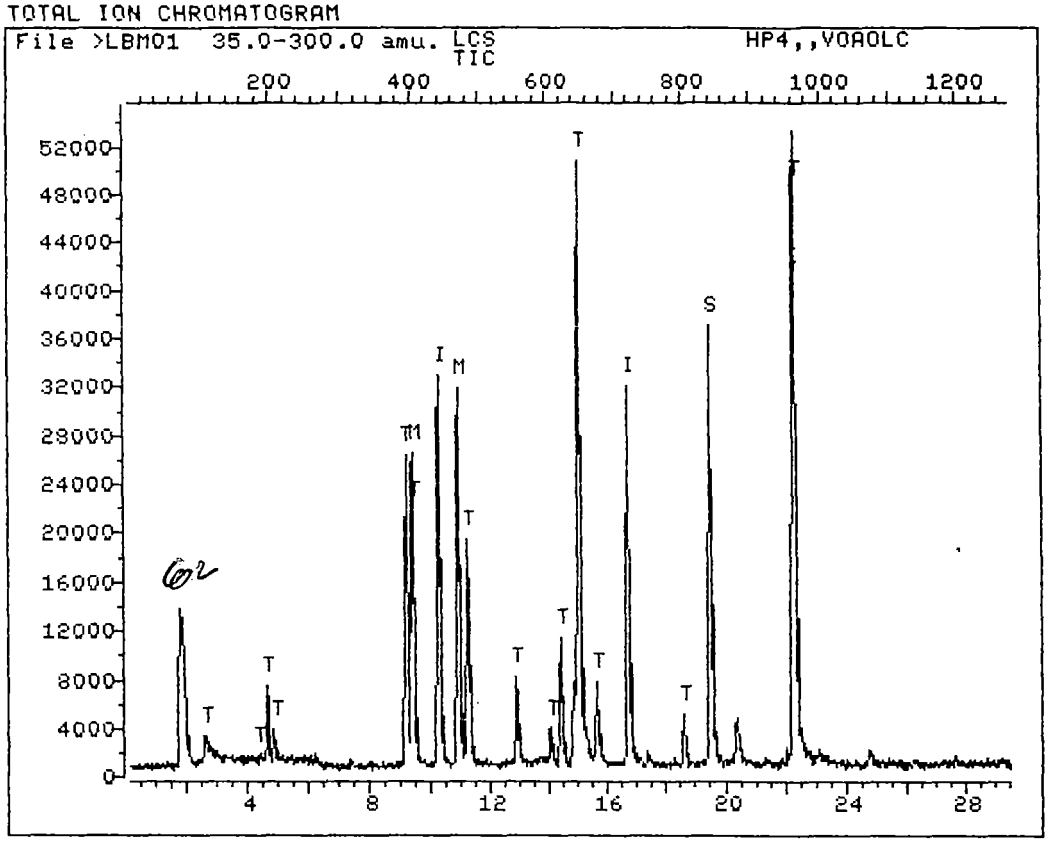
EPA SAMPLE NO.

LCSW2900

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: LCSW2900
Sample wt/vol: 25.00 g/ml) ML Lab File ID: LBM01
Level: (low/med) LOW Date Received:
%Moisture: not dec. 100.00 Date Analyzed: 5/1/92
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	4	X
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

TOTAL ION CHROMATOGRAM



Data File: >LBM01::D2 Quant Output File: ^LBM01::SC
Name: LCSW2900 Dan 5/11/92
Misc: HP4,,VOAOLC

Id File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920505 15:48

Operator ID: HP4B
Quant Time: 920505 15:50
Injected at: 920501 20:28

QUANT REPORT

Operator ID: HP4B
Output File: ^LBM01::SC
Data File: >LBM01::D2
Name: LCS
Misc: HP4,,VOAOLC

Quant Rev: 6
Quant Time: 920505 15:50
Injected at: 920501 20:28
Dilution Factor: 1.00000

ID File: IDCAP::QT
Title: CLP DAILY CALIBRATION
Last Calibration: 920505 15:48

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Difluorobenzene	10.23	114.0	76939	5.00	ug/L	100
2)	Chloromethane	0.00	50.0	0	0.00	ug/L	
3)	Bromomethane	0.00	94.0	0	0.00	ug/L	
4)	Vinyl Chloride	2.63	62.0	10255	5.56	ug/L	98
5)	Chloroethane	0.00	64.0	0	0.00	ug/L	
6)	Methylene Chloride	4.87	84.0	3217	.87	ug/L	87
7)	Acetone	4.31	43.0	513	1.39	ug/L	61
8)	Carbon Disulfide	4.61	76.0	20958	2.81	ug/L	100
9)	1,1-Dichloroethene	0.00	96.0	0	0.00	ug/L	
10)	1,1-Dichloroethane	0.00	63.0	0	0.00	ug/L	
11)	cis-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
12)	trans-1,2-dichloroethene	0.00	96.0	0	0.00	ug/L	
13)	Chloroform	0.00	83.0	0	0.00	ug/L	
14)	1,2-Dichloroethane	9.36	62.0	31420	4.53	ug/L	95
15)	2-Butanone	0.00	43.0	0	0.00	ug/L	
16)	Bromochloromethane	0.00	128.0	0	0.00	ug/L	
17)	Bromofluorobenzene	19.44	174.0	40586	4.74	ug/L	53
18)	*Chlorobenzene-d5	16.68	117.0	56208	5.00	ug/L	98
19)	1,1,1-Trichloroethane	0.00	97.0	0	0.00	ug/L	
20)	Carbon Tetrachloride	9.12	117.0	56767	4.61	ug/L	88
21)	Bromodichloromethane	0.00	83.0	0	0.00	ug/L	
22)	1,2-Dichloropropane	11.17	63.0	15282	4.71	ug/L	97
23)	cis-1,3-Dichloropropene	12.83	75.0	11374	2.72	ug/L	91
24)	Trichloroethene	10.85	95.0	34415	4.89	ug/L	93
25)	Dibromochloromethane	0.00	129.0	0	0.00	ug/L	
26)	1,1,2-Trichloroethane	14.37	97.0	9640	4.28	ug/L	88
27)	Benzene	9.40	78.0	51307	4.66	ug/L	87
28)	trans-1,3-Dichloropropene	14.01	75.0	5545	1.72	ug/L	95
29)	4-Methyl-2-Pentanone	0.00	43.0	0	0.00	ug/L	
30)	2-Hexanone	0.00	43.0	0	0.00	ug/L	
31)	Tetrachloroethene	15.00	166.0	52730	4.74	ug/L	93
32)	1,1,2,2-Tetrachloroethane	0.00	83.0	0	0.00	ug/L	
33)	1,2-Dibromoethane	15.57	107.0	13799	4.27	ug/L	67
34)	Toluene	0.00	91.0	0	0.00	ug/L	
35)	Chlorobenzene	0.00	112.0	0	0.00	ug/L	
36)	Ethylbenzene	0.00	91.0	0	0.00	ug/L	
37)	Styrene	0.00	104.0	0	0.00	ug/L	
38)	Xylene (total)	0.00	106.0	0	0.00	ug/L	
39)	*1,4-dichlorobenzene-d4	22.20	152.0	35979	5.00	ug/L	80
40)	Bromoform	18.59	173.0	6786	3.96	ug/L	60
41)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
42)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ug/L	
43)	1,4-Dichlorobenzene	22.27	146.0	50991	4.41	ug/L	77
44)	1,2-Dibromo-3-chloropropane	0.00	75.0	0	0.00	ug/L	

VOLUME 2 OF 3

REFERENCE NO.:	32380-02, SDG 2900
NARRATIVE CASE:	19026 **SAS 6702 HQ**
VIAR PRIME CONTRACT NO.:	68-D9-0135
S3 SUBCONTRACT NO:	S3-0135
ANALYSIS:	SEMIVOLATILES

5B

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

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Lab File ID: T0323 DFTPP Injection Date: 3/23/92

Instrument ID: HP1 DFTPP Injection Time: 1107

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.4
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	40.6
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	6.7
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 0.75% of mass 198	1.91
441	Present, but less than mass 443	9.7
442	40.0 - 110.0% of mass 198	64.0
443	15.0 - 24.0% of mass 442	12.1 (18.9)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	SSTD020	SSTD020	BK020	3/23/92	1129
02	SSTD050	SSTD050	BK050	3/23/92	1227
03	SSTD010	SSTD010	BK010	3/23/92	1324
04	SSTD080	SSTD080	BK080	3/23/92	1422
05	SSTD005	SSTD005	BK005	3/23/92	1527
06					

FORM V SV 1/87 Rev.

5B

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

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Lab File ID: TA505 DFTPP Injection Date: 5/05/92

Instrument ID: HP1 DFTPP Injection Time: 1412

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	43.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.3
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	25.0 - 75.0% of mass 198	36.1
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	23.1
365	Greater than 0.75% of mass 198	2.18
441	Present, but less than mass 443	12.2
442	40.0 - 110.0% of mass 198	80.8
443	15.0 - 24.0% of mass 442	15.8 (19.5)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	SSTD020	SSTD020	CA505	5/05/92	1434
02	EBW0504	EBW0504	EBY05	5/05/92	1534
03	PU833	2900-02	PU833	5/05/92	1925
04	EQK20	2906-01	EQK20	5/05/92	2023
05	EQK21	2906-02	EQK21	5/05/92	2121
06	EQK22	2906-03	EQK22	5/05/92	2219
07	EQK23	2906-04	EQK23	5/05/92	2316
08	EQK24	2906-05	EQK24	5/06/92	014
09	EQK25	2906-06	EQK25	5/06/92	112
10	LCSW0504	~~LCS0504~~ [illegible]	LCSY5	5/06/92	209
11		LCSW0504			

page 1 of 1

FORM V SV 1/87 Rev.

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Lab File ID (Standard): CA505 Date Analyzed: 5/05/92

Instrument ID: HP1 Time Analyzed: 1434

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
12 HOUR STD	16435.	12.52	66303.	16.40	43209.	22.00
UPPER LIMIT	32870.		132606.		86418.	
LOWER LIMIT	8218.		33151.		21604.	
EPA SAMPLE NO.						
01 EBW0504	11973.	12.52	48343.	16.38	31737.	21.98
02 PU833	11195.	12.51	44919.	16.38	29750.	21.97
03 EQK20	12141.	12.52	48340.	16.38	31917.	21.98
04 EQK21	11454.	12.52	46515.	16.38	30936.	21.98
05 EQK22	11574.	12.51	47333.	16.38	31122.	21.97
06 EQK23	12134.	12.52	49277.	16.38	31770.	21.98
07 EQK24	11904.	12.52	47442.	16.38	30671.	21.98
08 EQK25	12054.	12.52	48893.	16.38	32154.	21.98
09 LCSW0504	11439.	12.51	46613.	16.38	30024.	21.98
10						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

8C
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Lab File ID (Standard): CA505 Date Analyzed: 5/05/92

Instrument ID: HP1 Time Analyzed: 1434

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	73344.	26.67	74265.	35.12	91613.	39.49
	UPPER LIMIT	146688.		148530.		183226.	
	LOWER LIMIT	36672.		37133.		45806.	
	EPA SAMPLE NO.						
01	EBW0504	57956.	26.63	57025.	35.10	66428.	39.45
02	PU833	53861.	26.64	53692.	35.10	63506.	39.45
03	EQK20	58238.	26.64	58016.	35.10	67375.	39.45
04	EQK21	56338.	26.64	56390.	35.10	64745.	39.46
05	EQK22	56446.	26.64	56366.	35.10	65829.	39.45
06	EQK23	57707.	26.63	56333.	35.11	66644.	39.46
07	EQK24	56318.	26.64	55728.	35.10	66554.	39.45
08	EQK25	58163.	26.63	58032.	35.10	67331.	39.45
09	LCSW0504	52221.	26.63	53079.	35.09	64708.	39.44
10							

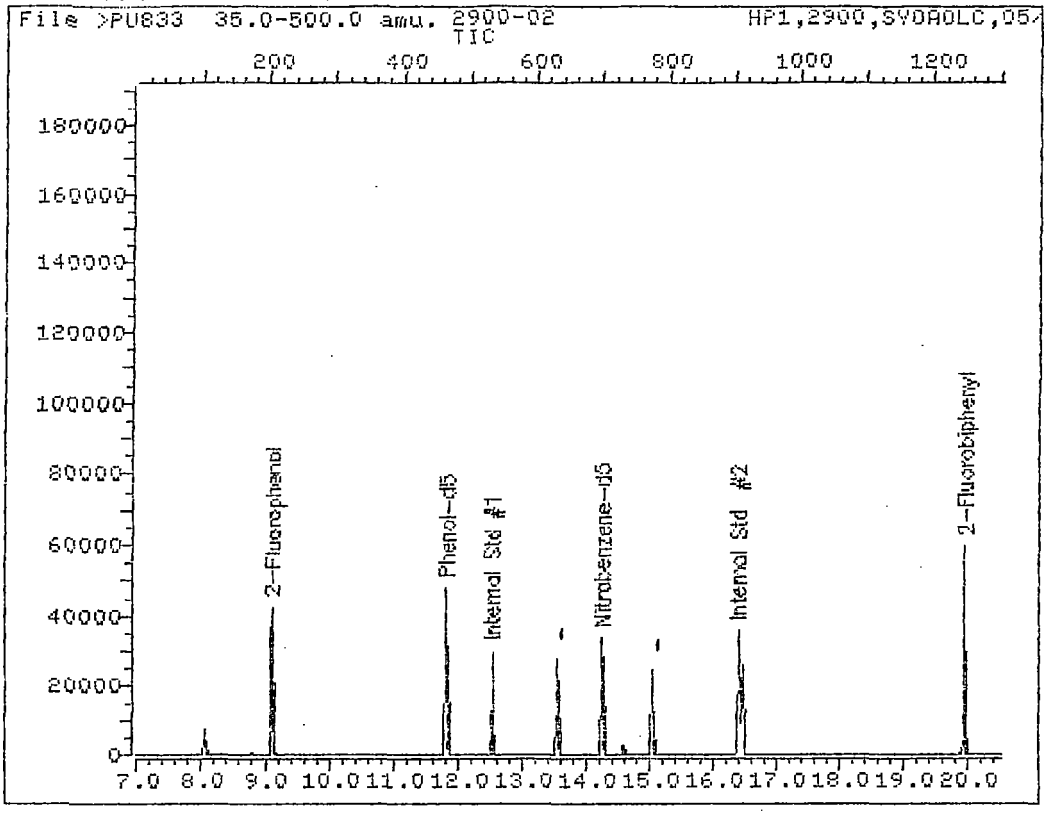
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 1/87 Rev.

TOTAL ION CHROMATOGRAM



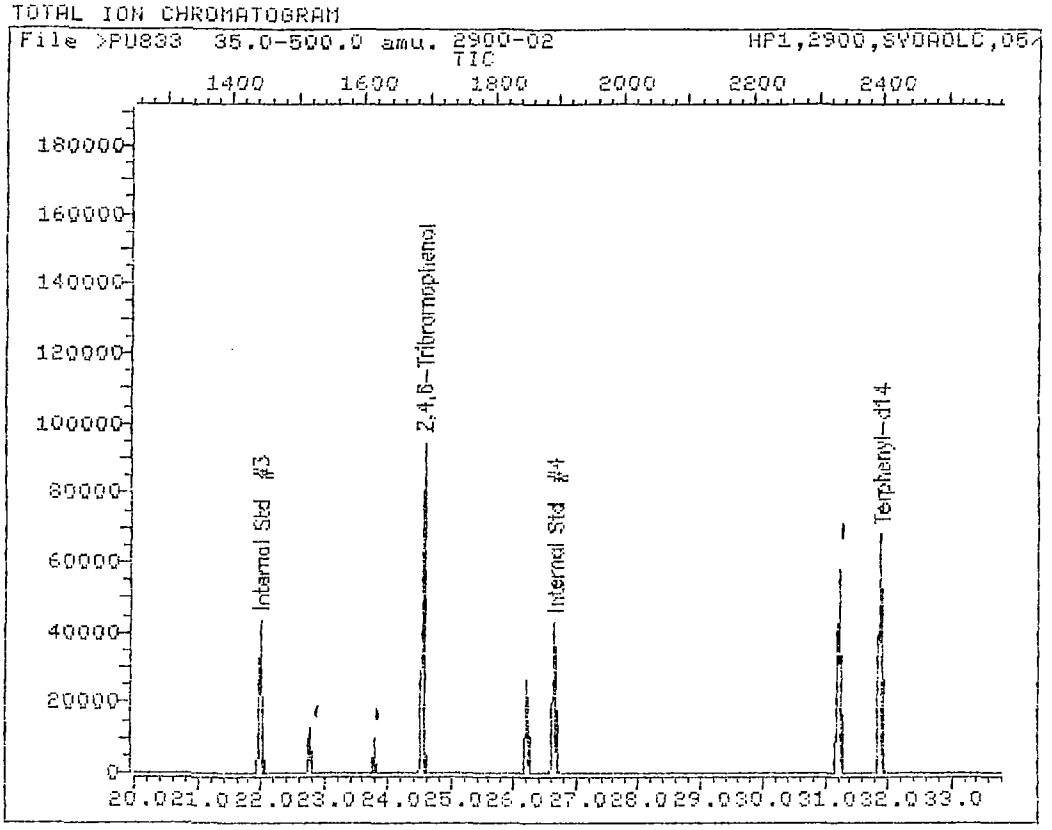
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 20:15
Injected at: 920505 19:25

TIC page 1 of 3

TOTAL ION CHROMATOGRAM



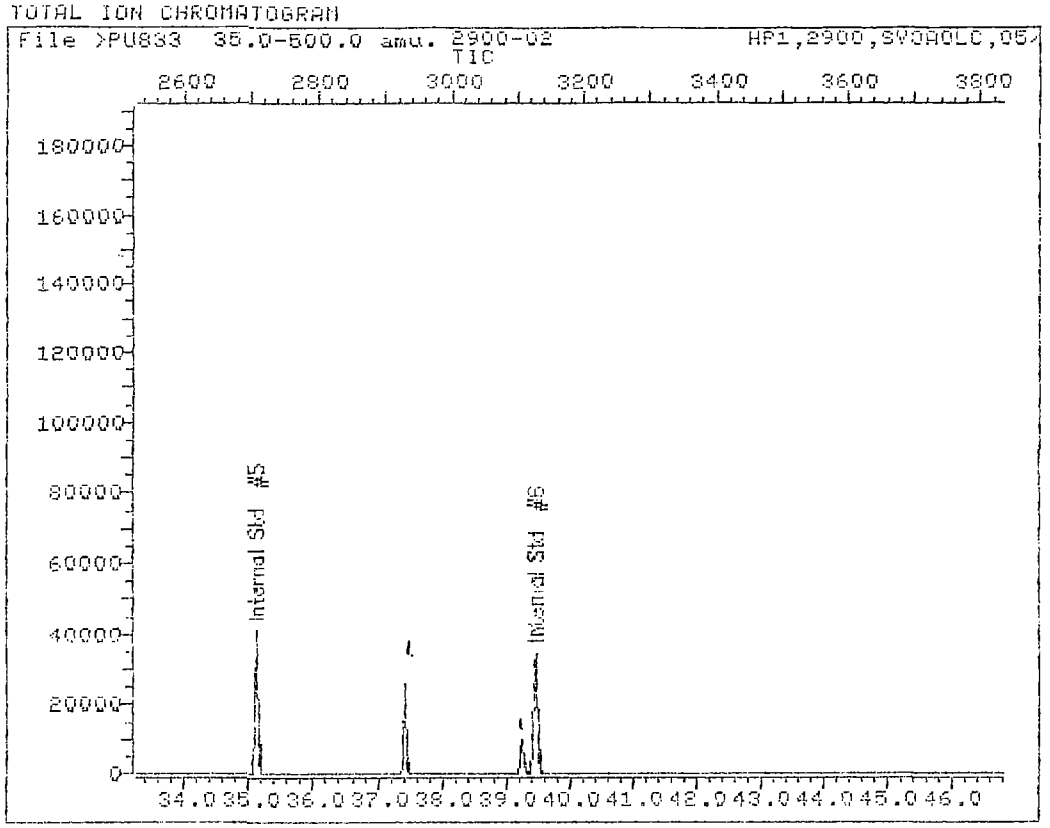
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 20:15
Injected at: 920505 19:25

TIC page 2 of 3

TOTAL ION CHROMATOGRAM



Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP18
Quant Time: 920505 20:15
Injected at: 920505 19:25

TIC page 3 of 3

QUANT REPORT pg.1

Operator ID: HP1R Quant Rev: 6 Quant Time: 920505 20:15
Output File: ^PU833::D3 Injected at: 920505 19:25
Data File: >PU833::D6 Dilution Factor: 1.00000
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7

$$\text{Cmpd Fd} = \frac{\text{Amt}}{\text{(ppm)}} \times \frac{FV}{IW}$$

ID File: [DPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	11195	20.00	ng/uL	96
2)	2-Fluorophenol	9.11	112.0	23186	41.98	ng/uL	93
3)	Phenol-d6	11.81	99.0	32002	41.06	ng/uL	94
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	13.55	108.0	12321	17.88	ng/uL	86
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	44919	20.00	ng/uL	89
16)	Nitrobenzene-d5	14.24	82.0	24606	34.23	ng/uL	89
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	15.04	82.0	24018	12.20	ng/uL	85
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	16.44	128.0	27068	12.18	ng/uL	98
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	29750	20.00	ng/uL	89
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.93	172.0	51077	31.55	ng/uL	94
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

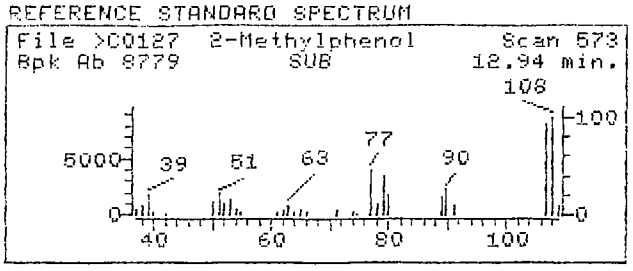
Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 20:15
Output File: ^PU833::D3 Injected at: 920505 19:25
Data File: >PU833::D6 Dilution Factor: 1.00000
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7

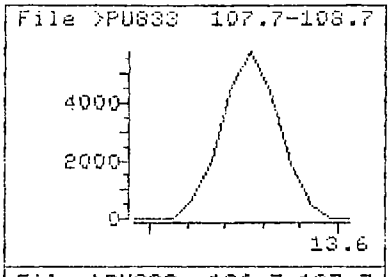
ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	22.75	165.0	7405	10.83	ng/uL	90
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	23.76	204.0	6256	6.92	ng/uL	91
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.53	329.7	40585	118.27	ng/uL	100
50)	*d10-Phenanthrene	26.64	188.0	53861	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	53692	20.00	ng/uL	95
61)	Pyrene	31.21	202.0	85110	27.90	ng/uL	98
62)	Terphenyl-d14	31.87	244.0	79873	38.80	ng/uL	83
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	63506	20.00	ng/uL	94
69)	Di-n-octylphthalate	37.40	149.0	34066	7.97	ng/uL	86
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	39.25	252.0	18245	6.35	ng/uL	96
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

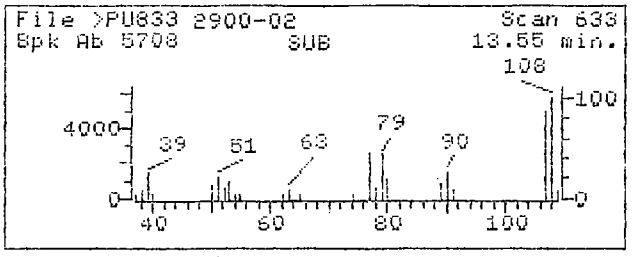
* Compound is ISTD

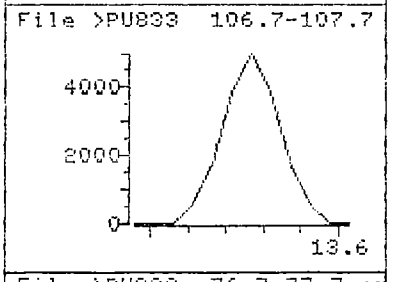
REFERENCE STANDARD SPECTRUM



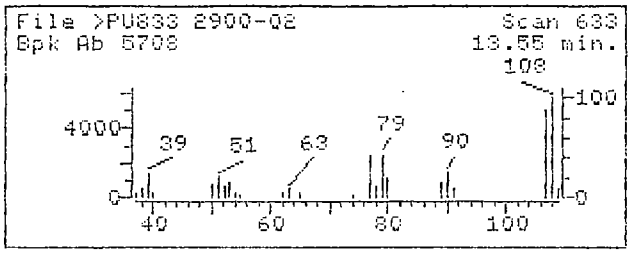


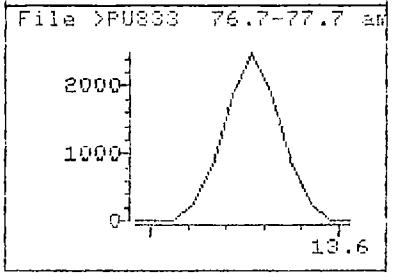
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)

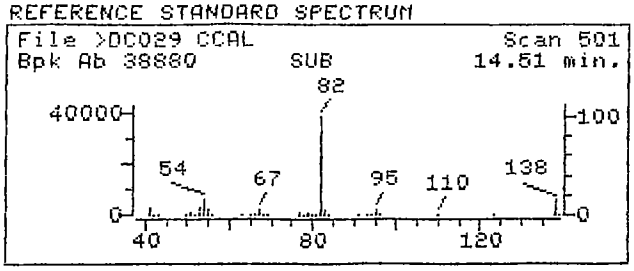




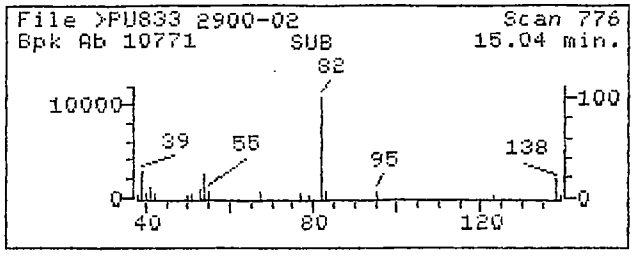
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 10
Compound Name: 2-Methylphenol
Scan Number: 633
Retention Time: 13.55 min.
Quant Ion: 108.0
Area: 12321
Concentration: 17.88 ng/uL
q-value: 86

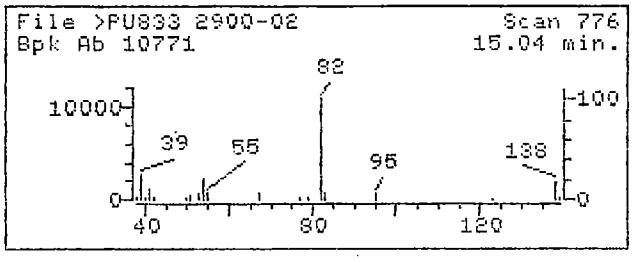
REFERENCE STANDARD SPECTRUM

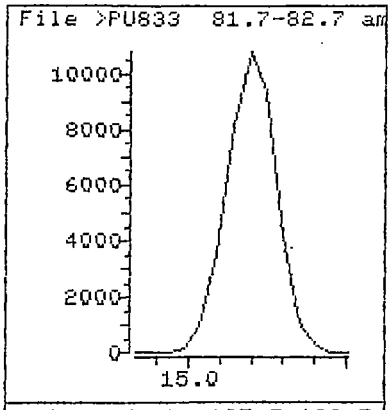


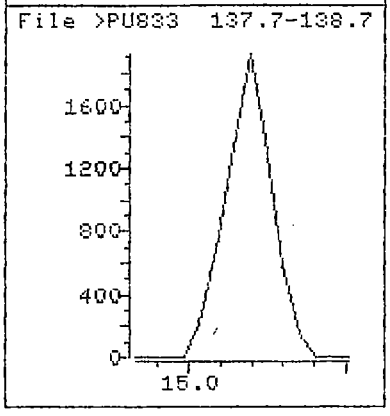
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



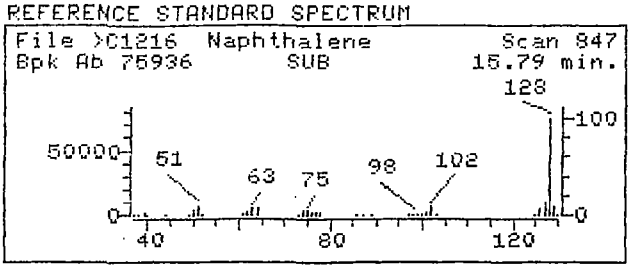




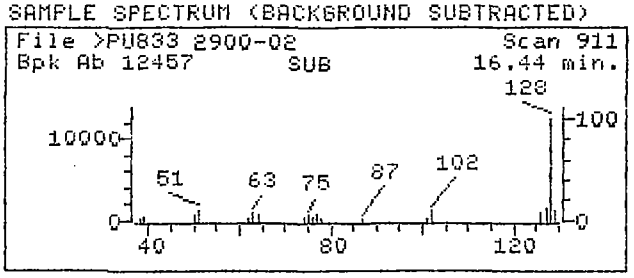
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 18
Compound Name: Isophorone
Scan Number: 776
Retention Time: 15.04 min.
Quant Ion: 82.0
Area: 24018
Concentration: 12.20 ng/uL
q-value: 85

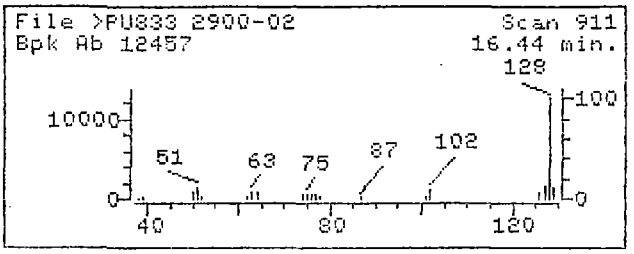
REFERENCE STANDARD SPECTRUM

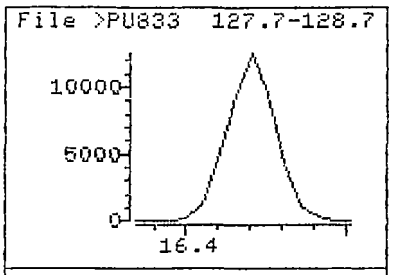


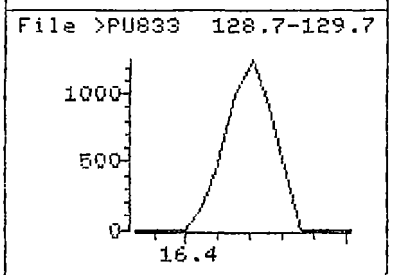
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

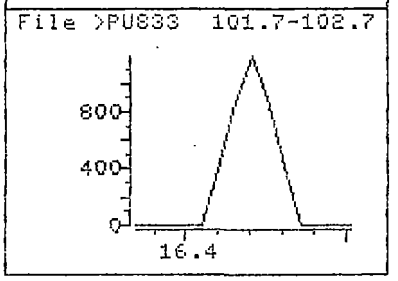


SAMPLE SPECTRUM (UNALTERED)





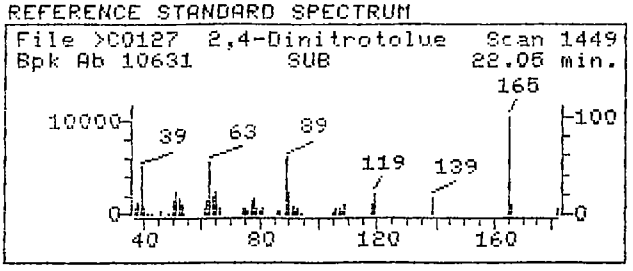


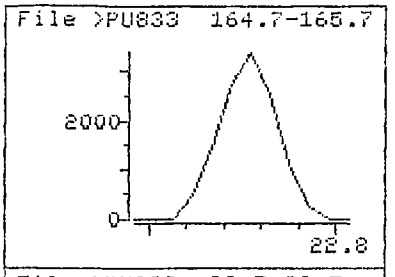


Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOADLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

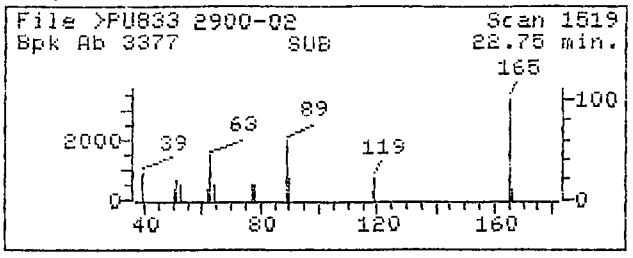
Compound No: 24
Compound Name: Naphthalene
Scan Number: 911
Retention Time: 16.44 min.
Quant Ion: 128.0
Area: 27068
Concentration: 12.18 ng/uL
q-value: 98

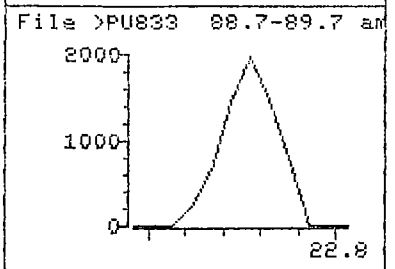
REFERENCE STANDARD SPECTRUM



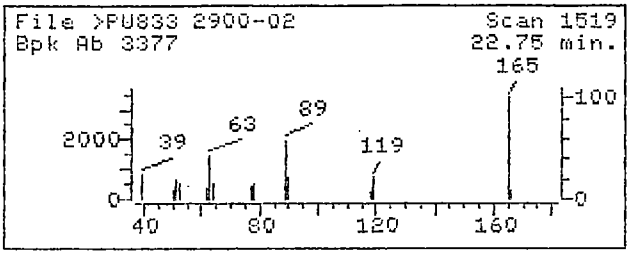


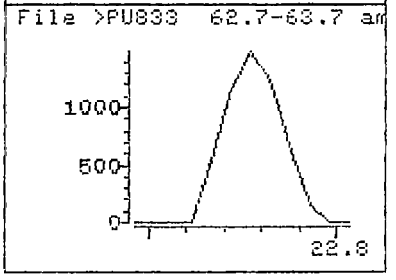
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)





SAMPLE SPECTRUM (UNALTERED)

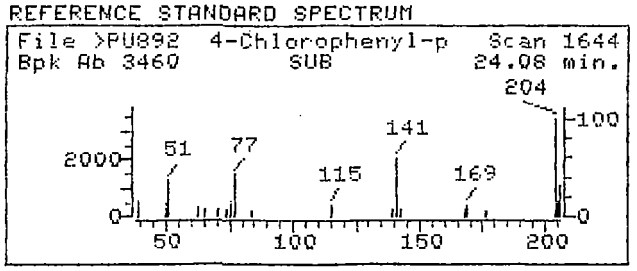




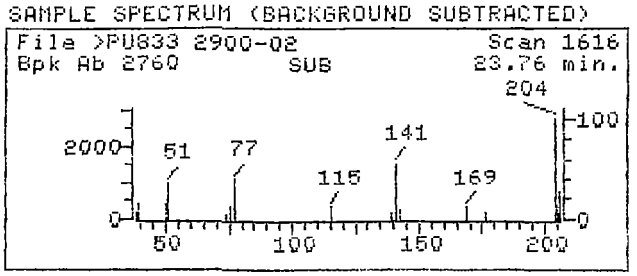
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 44
Compound Name: 2,4-Dinitrotoluene
Scan Number: 1519
Retention Time: 22.75 min.
Quant Ion: 165.0
Area: 7405
Concentration: 10.83 ng/uL
q-value: 90

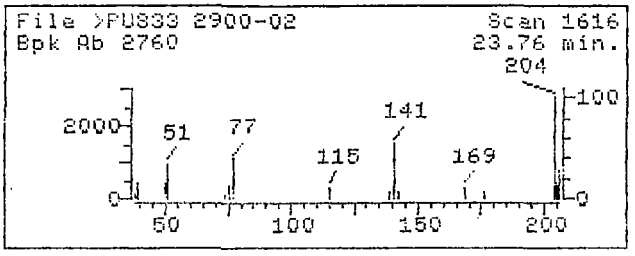
REFERENCE STANDARD SPECTRUM

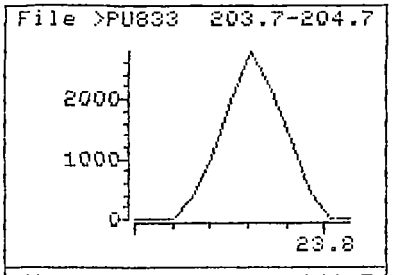


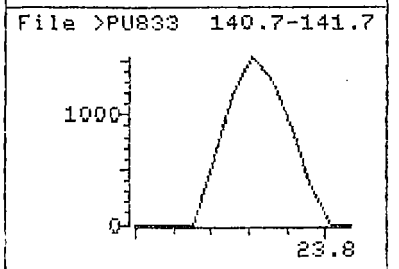
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

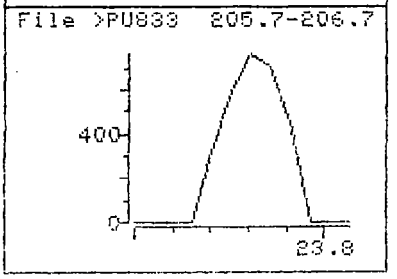


SAMPLE SPECTRUM (UNALTERED)





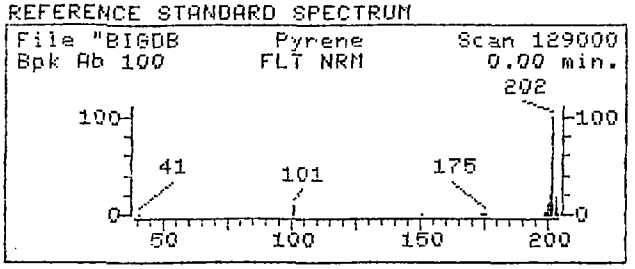




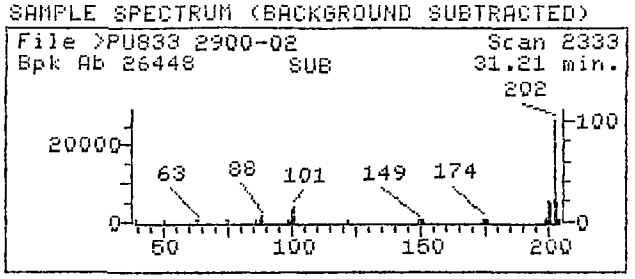
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 46
Compound Name: 4-Chlorophenyl-phenylether
Scan Number: 1616
Retention Time: 23.76 min.
Quant Ion: 204.0
Area: 6256
Concentration: 6.92 ng/uL
q-value: 91

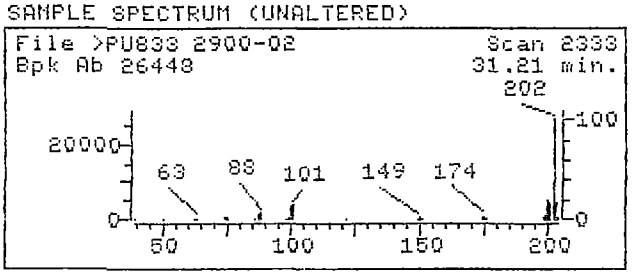
REFERENCE STANDARD SPECTRUM

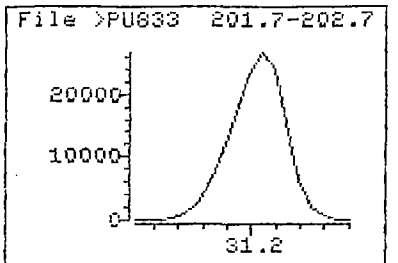


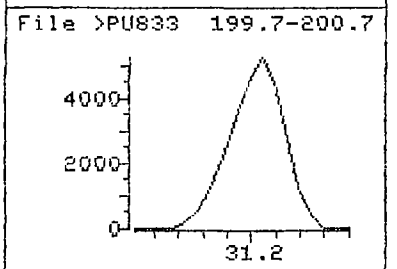
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

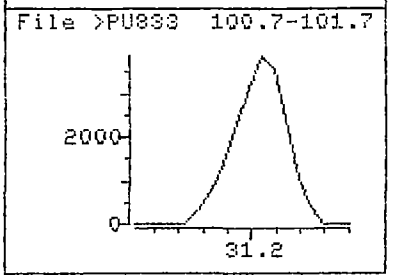


SAMPLE SPECTRUM (UNALTERED)





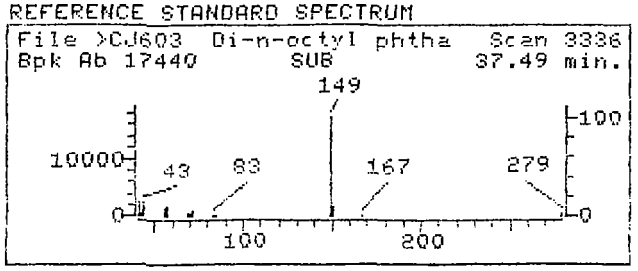




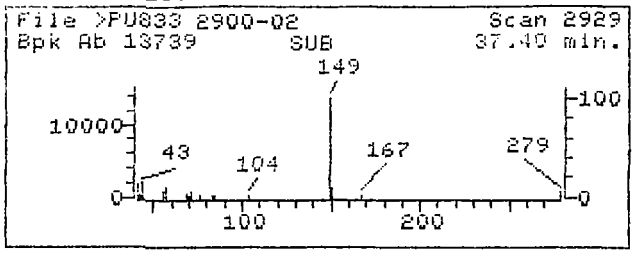
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 61
Compound Name: Pyrene
Scan Number: 2333
Retention Time: 31.21 min.
Quant Ion: 202.0
Area: 85110
Concentration: 27.90 ng/uL
q-value: 98

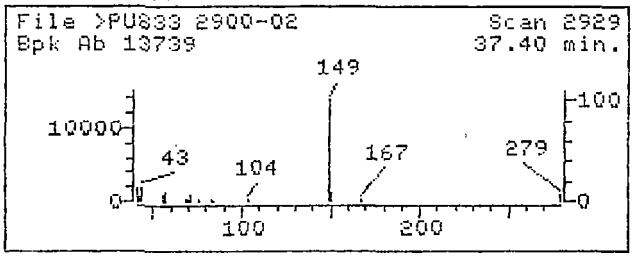
REFERENCE STANDARD SPECTRUM

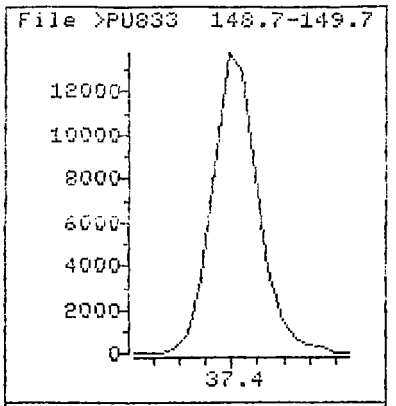


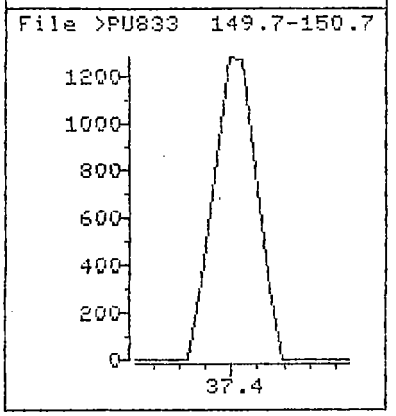
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



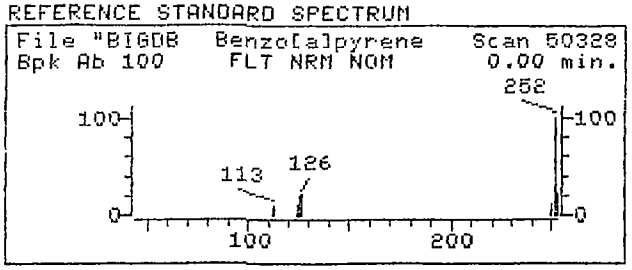




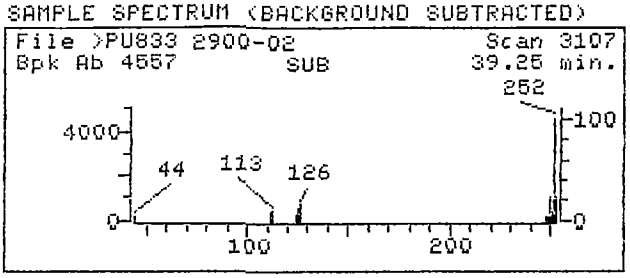
Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 69
Compound Name: Di-n-octylphthalate
Scan Number: 2929
Retention Time: 37.40 min.
Quant Ion: 149.0
Area: 34066
Concentration: 7.97 ng/uL
q-value: 86

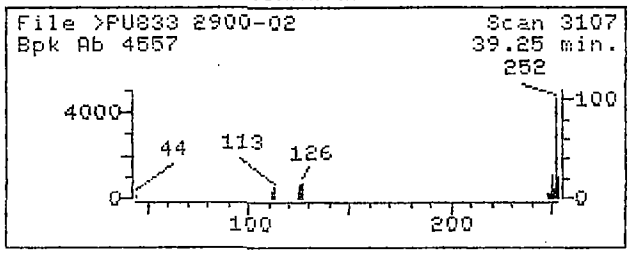
REFERENCE STANDARD SPECTRUM

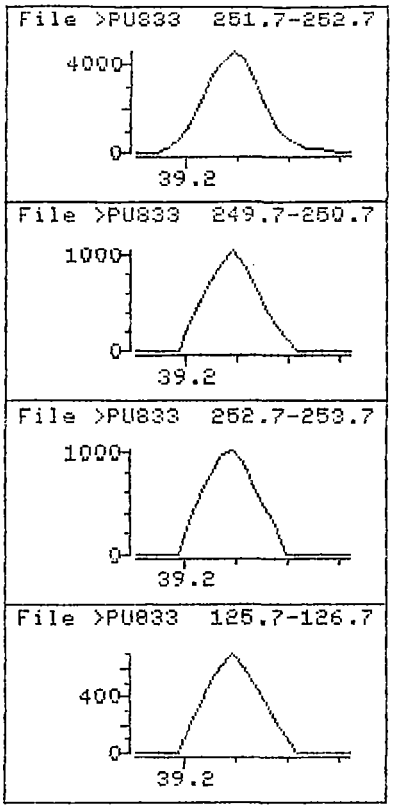


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



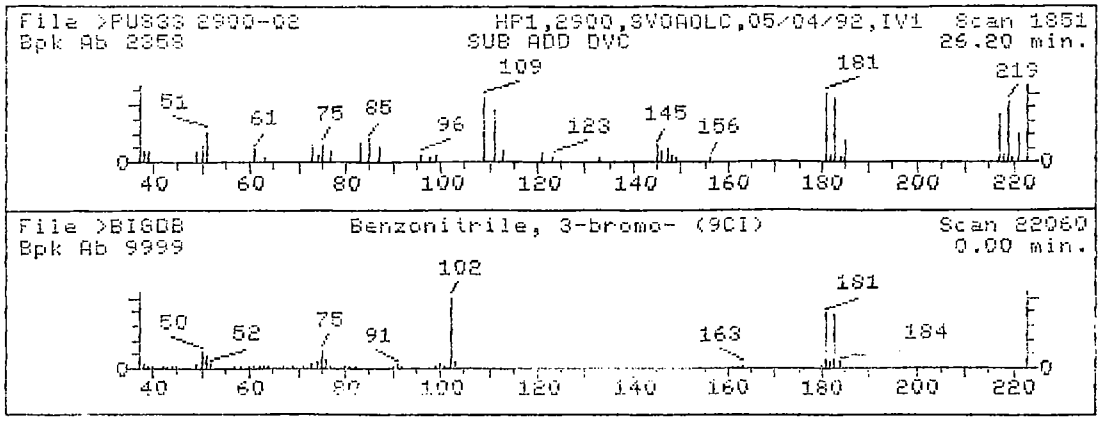
SAMPLE SPECTRUM (UNALTERED)





Data File: >PU833::D6 Quant Output File: ^PU833::D3
Name: 2900-02
Misc: HP1,2900,SVOADLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Quant Time: 920505 20:15 Quant ID File: IDPAIN::D1
Injected at: 920505 19:25 Last Calibration: 920505 15:56

Compound No: 72
Compound Name: Benzo(a)pyrene
Scan Number: 3107
Retention Time: 39.25 min.
Quant Ion: 252.0
Area: 18245
Concentration: 6.35 ng/uL
q-value: 96



Unknown

. Unknown #,2
Quant Time: 920505 20:15
Injected at: 920505 19:25
Pk_Ht= 26364.00 Tentative Concentration is 12.00 ✓

1. Benzonitrile, 3-bromo- (9CI) 181 C7H4BrN

Sample file: ARTIFI Spectrum #: -1
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	13*	6952596	22060	"BIGDB	54	70	2	0	110	65	3	31

MS data file header from : >PU833

Sample: 2900-02 Operator: HP1B MS 5/05/92 19:25
Misc : HP1,2900,SVOADLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 7
Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: RCLP Tuning file: MTDT01 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	35.	305.	0.	0.	0.
Chromatographic times, min. :	4.0	9.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.2	0.0

>PU833 2900-02 HP1,2900,SVOADLC,05/04/92,IV1L,FV1ML,CAS

35.01 500.0 CLP ADC TIC
Upslope: .20 Pkht Reject: 2971. Max Peaks: 2 Bunching: 1
Dnslope: 0.00 Results File IPU833 Sorted by Pkht/Pkht INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	26.20	1846	1851	1855	26364	66371	66371	100.00	82.736
2	~~8.03~~ <5% 98		101	106	7290	13849	13849	20.87	17.264

Sum of corrected areas: 80220.

Summary of Unknowns PBM Library Search and Quantitation

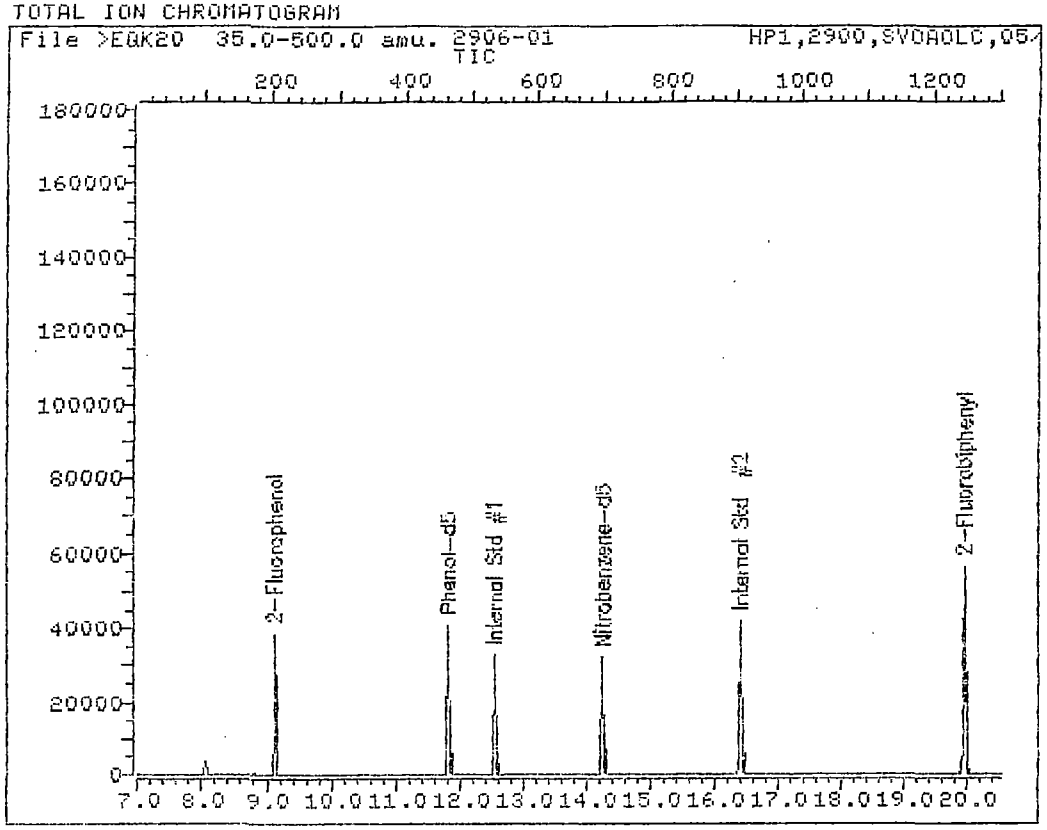
Standard	Concentration	Peak Ht.	Retention Time	Unknown Window
1	20.0	29710.	12.51	6.99 - 14.45
2	20.0	35812.	16.38	14.45 - 19.18
3	20.0	43550.	21.97	19.18 - 24.31
4	20.0	43007.	26.64	24.31 - 30.87
5	20.0	41050.	35.10	30.87 - 37.28
6	20.0	34499.	39.45	37.28 - 46.79

Dilution Factor = 0.00

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Pk.Ht.Int.Std.}} * \text{Dil Factor} * \text{Pk.Ht.Unknown}$$

8:40 PM TUE., 5 MAY , 1992

TOTAL ION CHROMATOGRAM



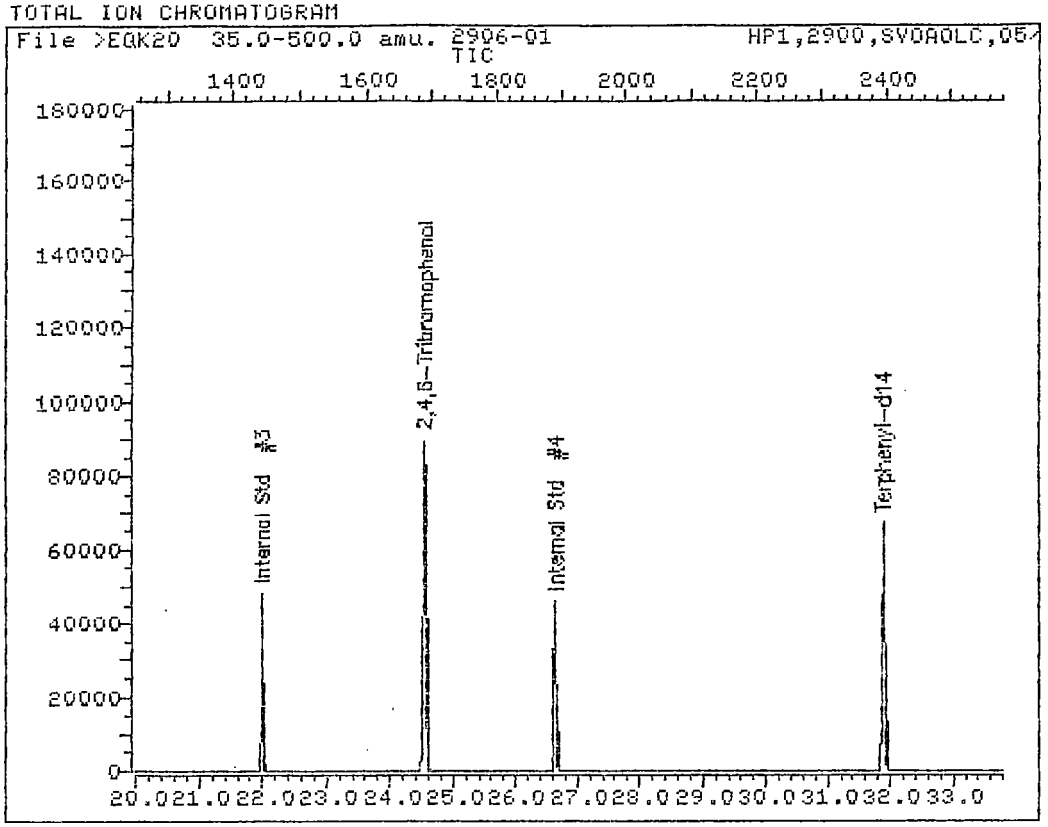
Data File: >EQK20::D6 Quant Output File: ^EQK20::D3
Name: 2906-01
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 8

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 21:13
Injected at: 920505 20:23

TIC page 1 of 3

TOTAL ION CHROMATOGRAM



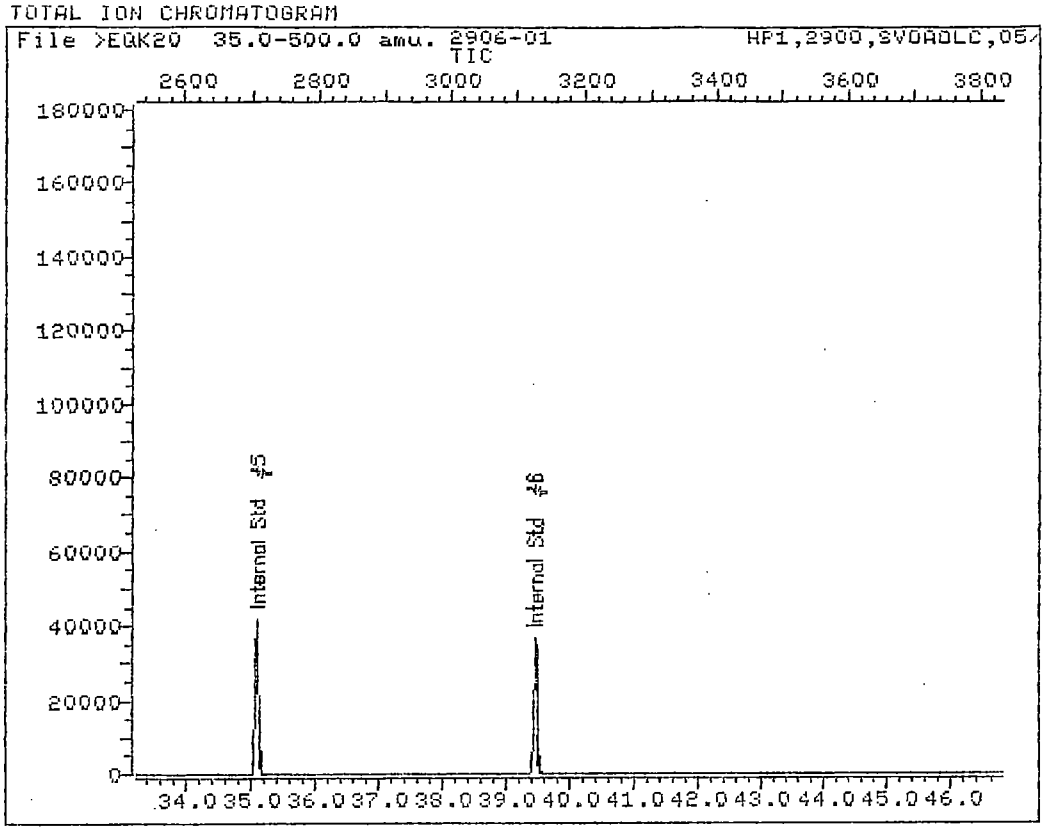
Data File: >EQK20::D6 Quant Output File: ^EQK20::D3
Name: 2906-01
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 8

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 21:13
Injected at: 920505 20:23

TIC page 2 of 3

TOTAL ION CHROMATOGRAM



Data File: >EQK20::D6 Quant Output File: ^EQK20::D3
Name: 2906-01
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 8

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 21:13
Injected at: 920505 20:23

TIC page 3 of 3

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 21:13
Output File: ^EQK20::D3 Injected at: 920505 20:23
Data File: >EQK20::D6 Dilution Factor: 1.00000
Name: 2906-01
Misc: HP1,2900,SVOAOLC,05/04/92,1V1L,FV1ML,CASE 19026 BTL# 8

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	12141	20.00	ng/uL	96
2)	2-Fluorophenol	9.10	112.0	20509	34.24	ng/uL	97
3)	Phenol-d6	11.81	99.0	27111	32.08	ng/uL	92
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	48340	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.24	82.0	23428	30.28	ng/uL	90
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	31917	20.00	ng/uL	89
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.93	172.0	48537	27.94	ng/uL	94
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

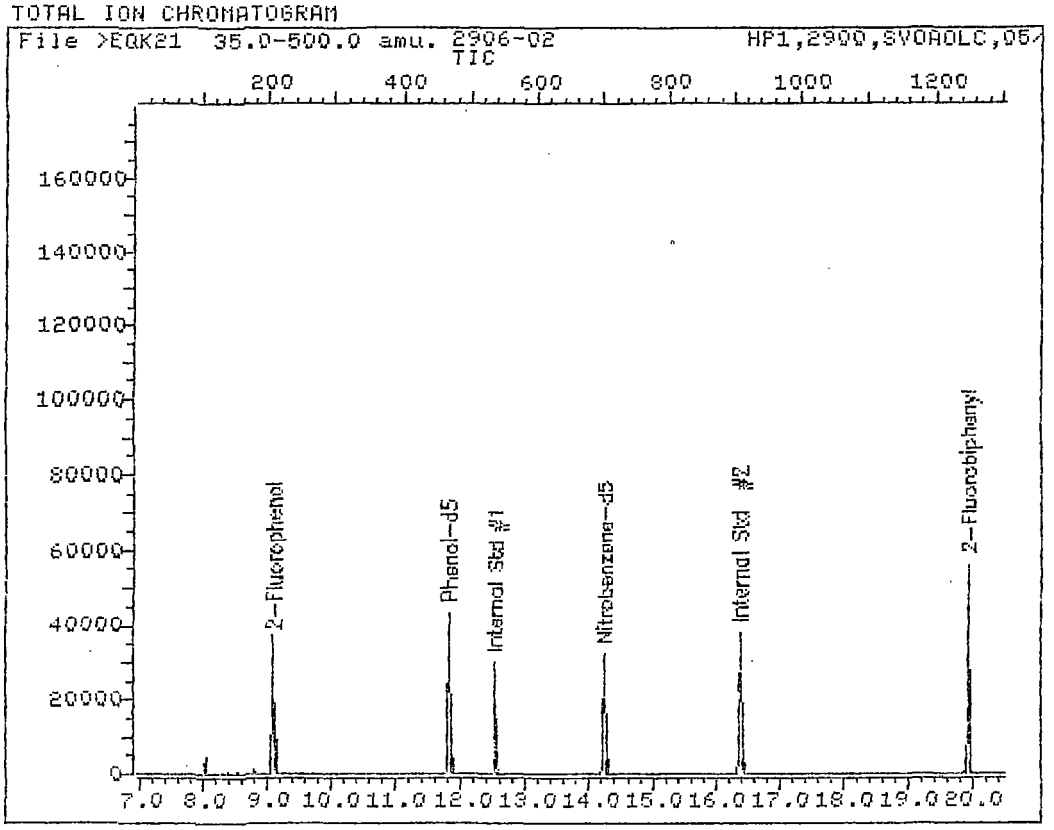
Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 21:13
Output File: ^EQK20::D3 Injected at: 920505 20:23
Data File: >EQK20::D6 Dilution Factor: 1.00000
Name: 2906-01
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL$ 8

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.53	329.7	36730	99.77	ng/uL	100
50)	*d10-Phenanthrene	26.64	188.0	58238	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	58016	20.00	ng/uL	96
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
62)	Terphenyl-d14	31.87	244.0	75465	33.93	ng/uL	83
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	67375	20.00	ng/uL	94
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >EQK21::D6 Quant Output File: ^EQK21::D3
Name: 2906-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 9

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 22:11
Injected at: 920505 21:21

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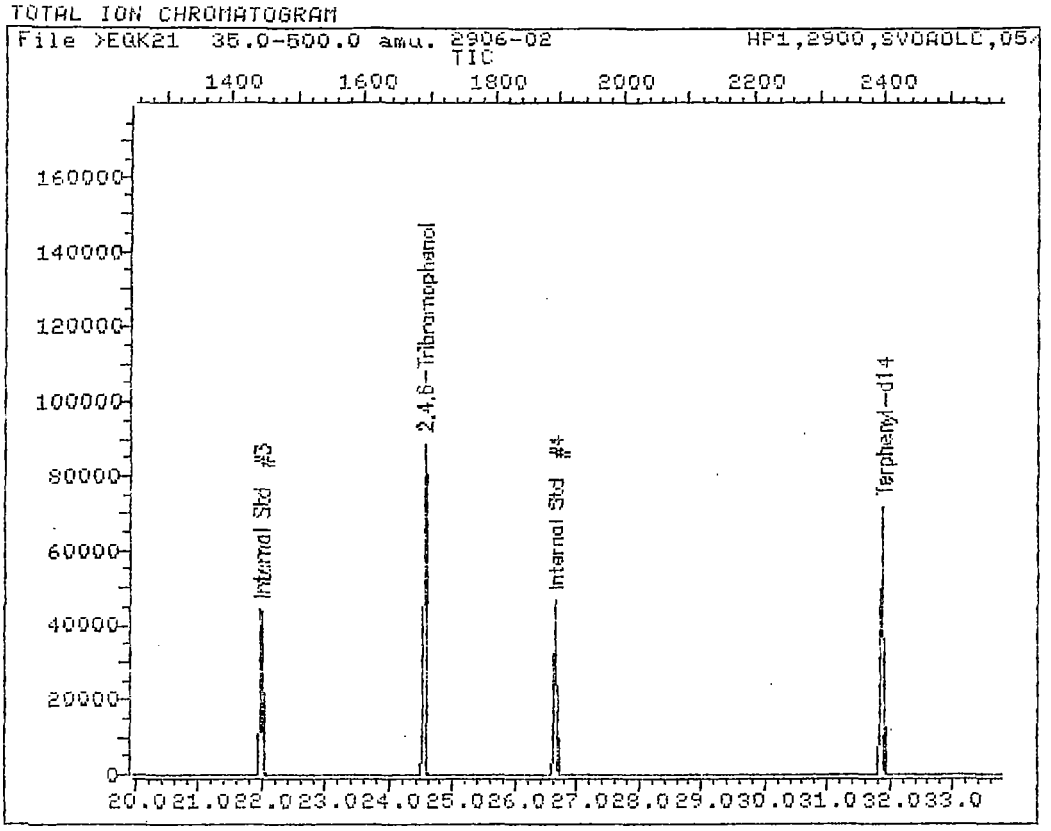
TOTAL ION CHROMATOGRAM



Data File: >EQK21::D6 Quant Output File: ^EQK21::D3
Name: 2906-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 9

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 22:11
Injected at: 920505 21:21

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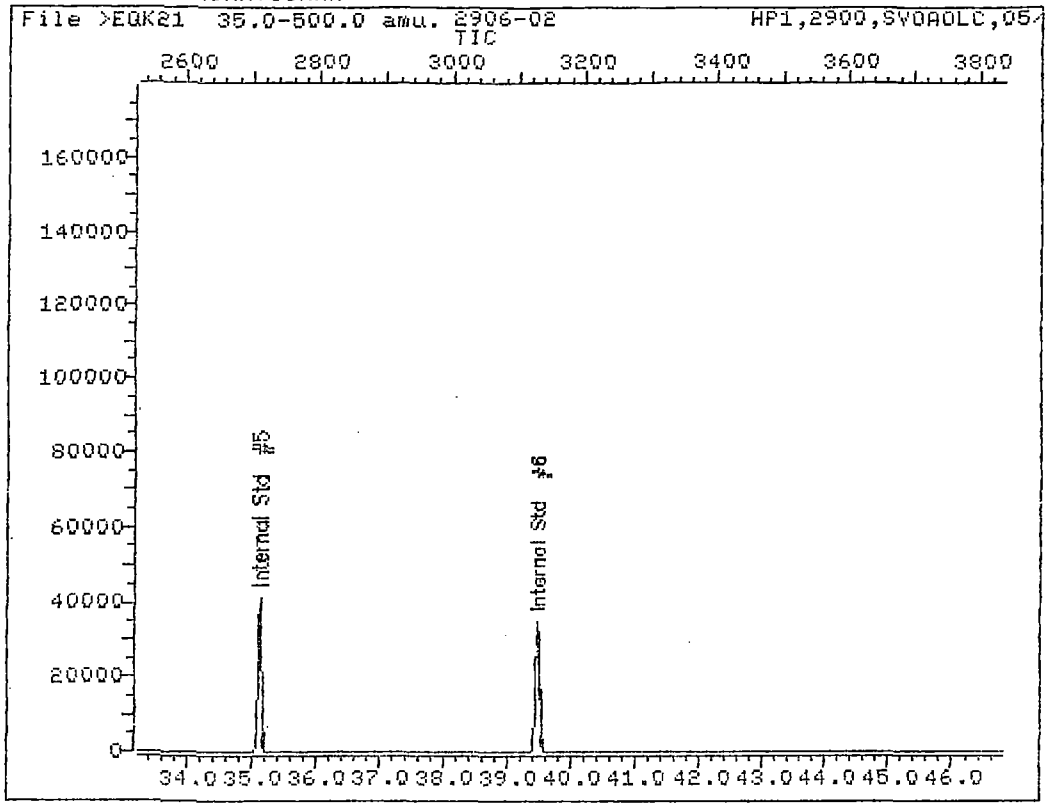
TOTAL ION CHROMATOGRAM



Data File: >EQK21::D6 Quant Output File: ^EQK21::D3
Name: 2906-02
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 9

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 22:11
Injected at: 920505 21:21

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QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 22:11
Output File: ^EQK21::D3 Injected at: 920505 21:21
Data File: >EQK21::D6 Dilution Factor: 1.00000
Name: 2906-02
Misc: HP1,2900,SVOAQLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 9

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	11454	20.00	ng/uL	98
2)	2-Fluorophenol	9.10	112.0	21281	37.66	ng/uL	97
3)	Phenol-d6	11.81	99.0	29060	36.45	ng/uL	93
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	46515	20.00	ng/uL	89
16)	Nitrobenzene-d5	14.24	82.0	23096	31.02	ng/uL	89
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	30936	20.00	ng/uL	90
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.93	172.0	47664	28.31	ng/uL	96
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

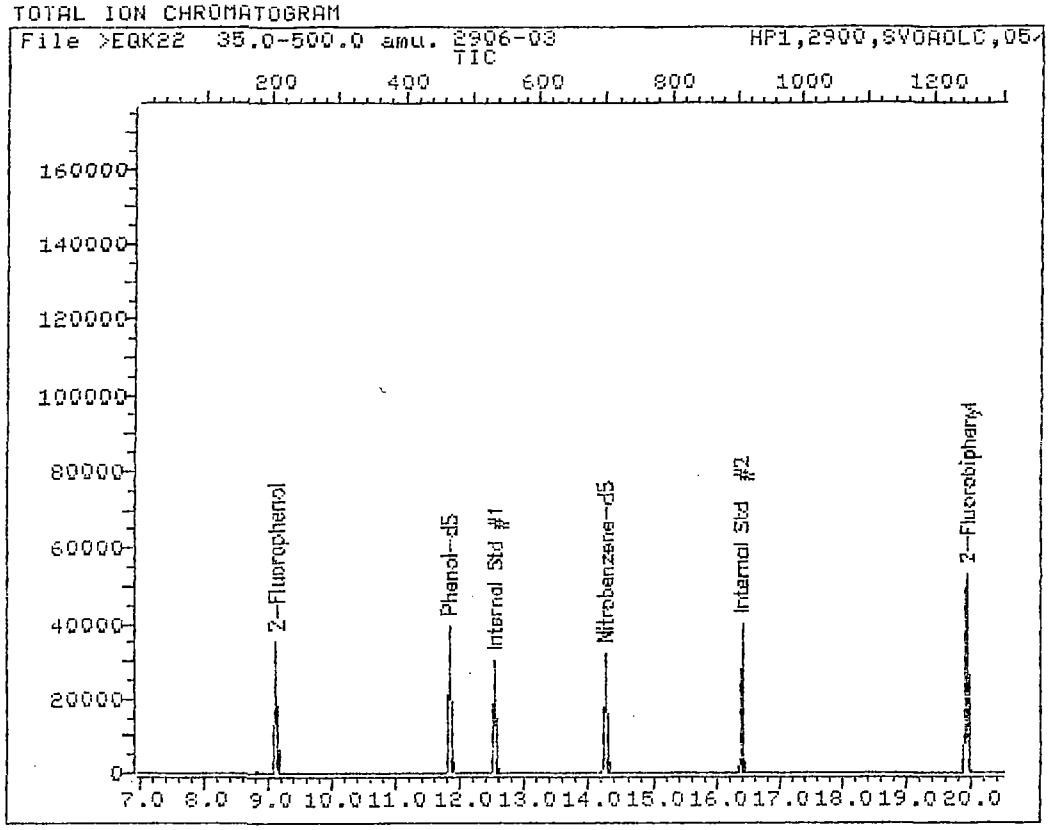
Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 22:11
Output File: ^EQK21::D3 Injected at: 920505 21:21
Data File: >EQK21::D6 Dilution Factor: 1.00000
Name: 2906-02
Misc: HP1;2900;SVOAOLC;05/04/92;IV1L;FV1ML;CASE 19026 BTL# 9

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.53	329.7	37677	105.59	ng/uL	100
50)	*d10-Phenanthrene	26.64	188.0	56338	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	56390	20.00	ng/uL	97
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
62)	Terphenyl-d14	31.87	244.0	78457	36.29	ng/uL	83
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	64745	20.00	ng/uL	93
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >EQK22::D6 Quant Output File: ^EQK22::D3
Name: 2906-03
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#10

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 23:08
Injected at: 920505 22:19

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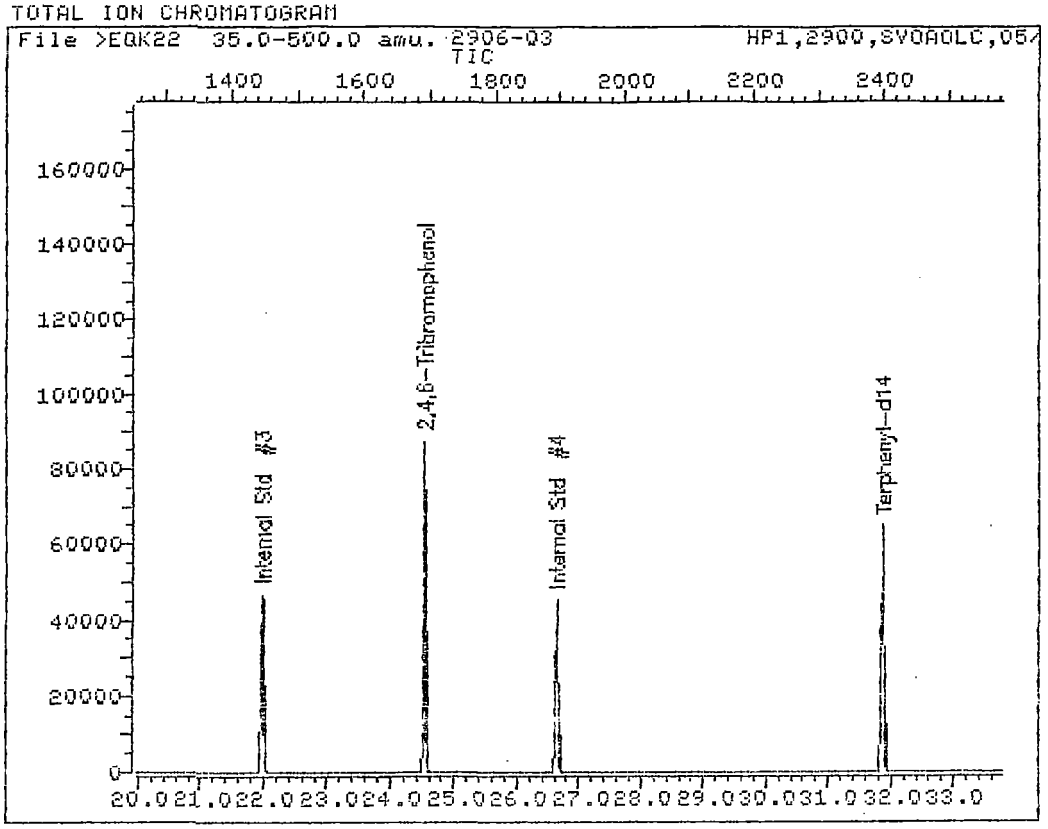
TOTAL ION CHROMATOGRAM



Data File: >EQK22::D6 Quant Output File: ^EQK22::D3
Name: 2906-03
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#10

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 23:08
Injected at: 920505 22:19

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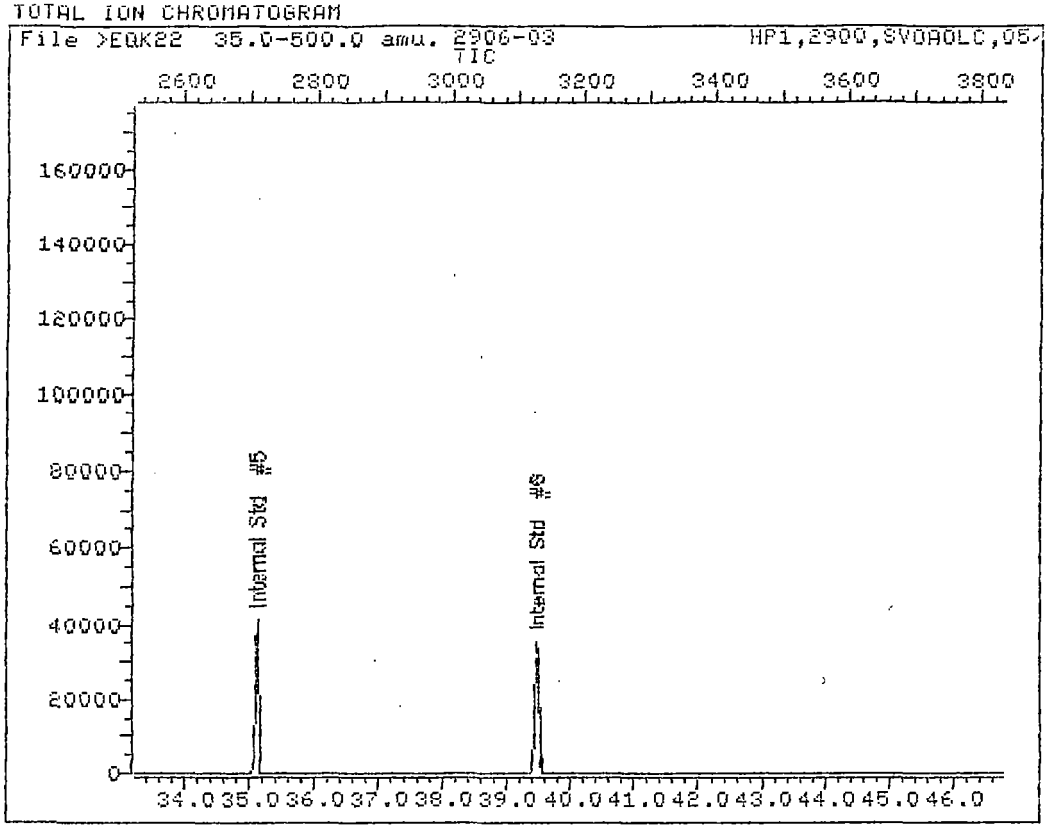
TOTAL ION CHROMATOGRAM



Data File: >EQK22::D6 Quant Output File: ^EQK22::D3
Name: 2906-03
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#10

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 23:08
Injected at: 920505 22:19

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QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 23:08
Output File: ^EQK22::D3 Injected at: 920505 22:19
Data File: >EQK22::D6 Dilution Factor: 1.00000
Name: 2906-03
Misc: HP1,2900,SVOAOLC,05/04/92,1V1L,FV1ML,CASE 19026 BTL#10

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.51	152.0	11574	20.00	ng/uL	96
2)	2-Fluorophenol	9.10	112.0	19903	34.85	ng/uL	97
3)	Phenol-d6	11.81	99.0	27232	33.80	ng/uL	93
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	47333	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.24	82.0	21945	28.97	ng/uL	89
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.97	164.0	31122	20.00	ng/uL	90
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.93	172.0	46353	27.37	ng/uL	95
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

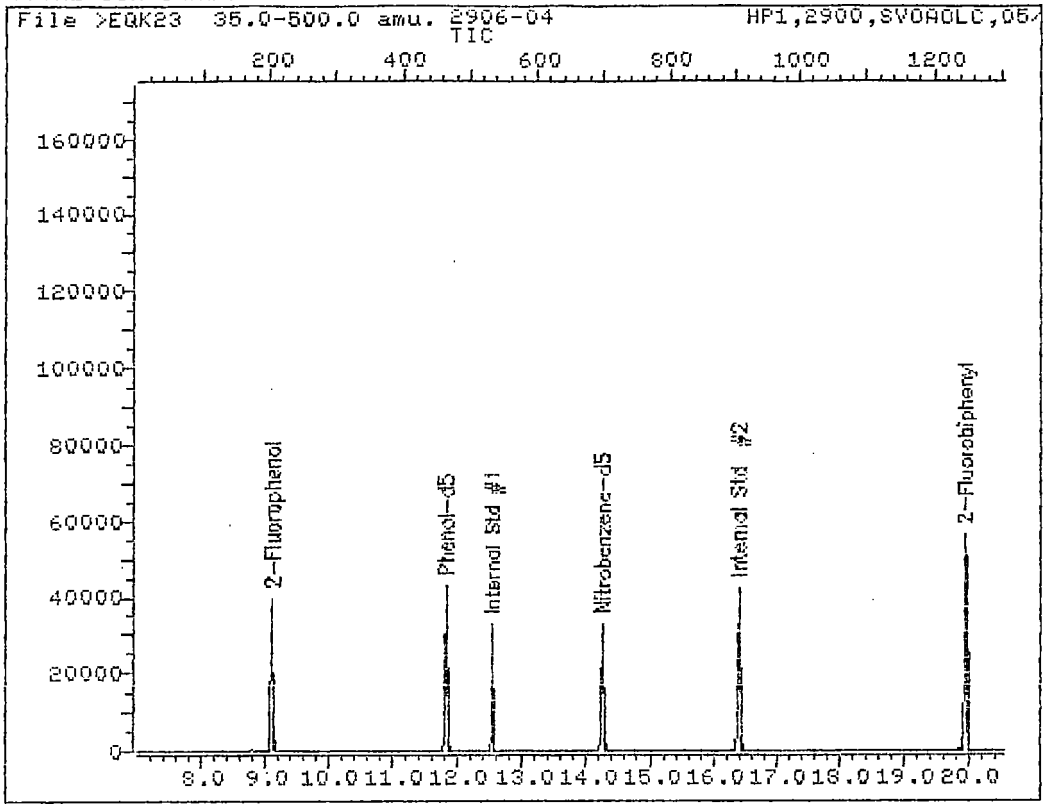
Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 23:08
Output File: ^EQK22::D3 Injected at: 920505 22:19
Data File: >EQK22::D6 Dilution Factor: 1.00000
Name: 2906-03
Misc: HP1,2900,SVOAQLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#10

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.53	329.7	36151	100.70	ng/uL	100
50)	*d10-Phenanthrene	26.64	188.0	56446	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	56366	20.00	ng/uL	96
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
62)	Terphenyl-d14	31.87	244.0	74156	34.32	ng/uL	84
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	65829	20.00	ng/uL	93
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >EQK23::D6 Quant Output File: ^EQK23::D3
Name: 2906-04
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#11

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 00:06
Injected at: 920505 23:16

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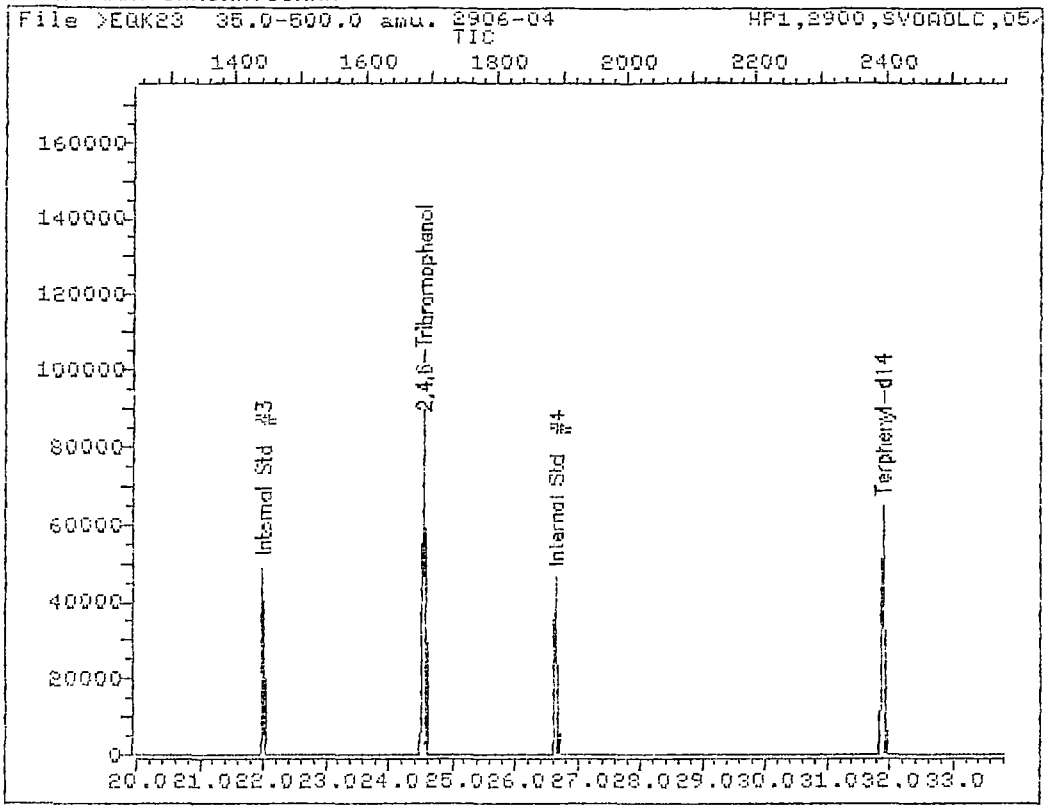
TOTAL ION CHROMATOGRAM



Data File: >EQK23::D6 Quant Output File: ^EQK23::D3
Name: 2906-04
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#11

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 00:06
Injected at: 920505 23:16

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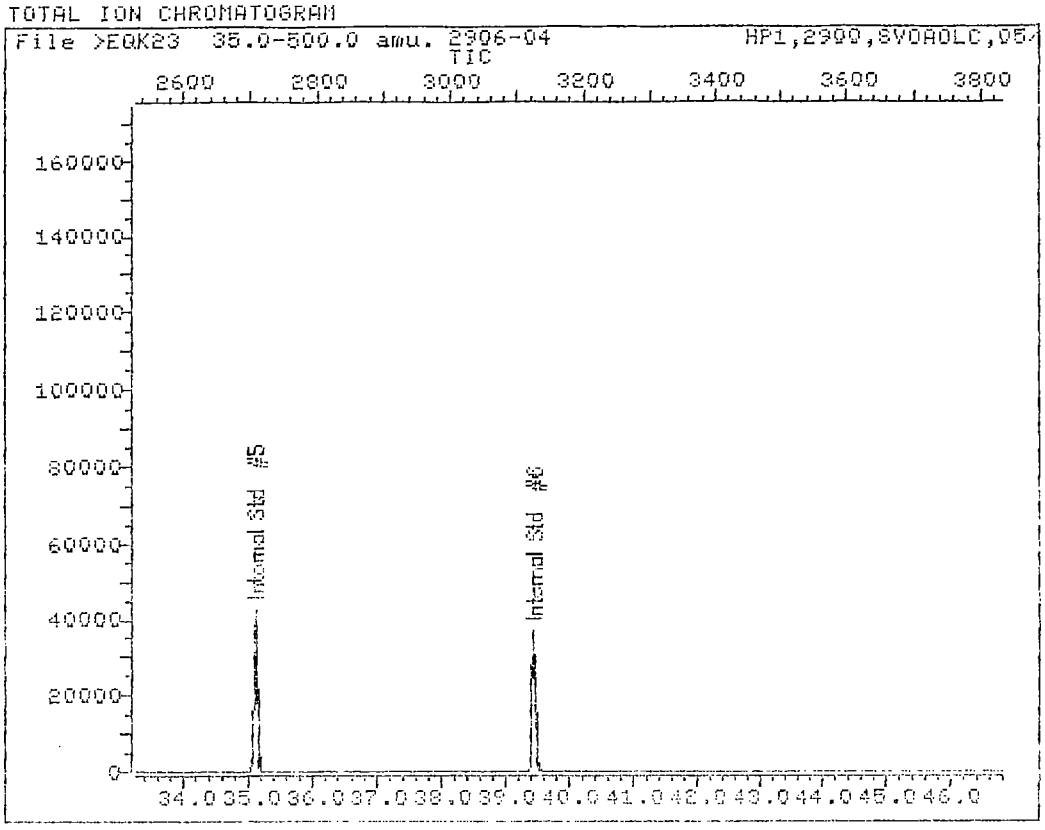
TOTAL ION CHROMATOGRAM



Data File: >EQK23::D6 Quant Output File: ^EQK23::D3
Name: 2906-04
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#11

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 00:06
Injected at: 920505 23:16

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QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920506 00:06
Output File: ^EQK23::D3 Injected at: 920505 23:16
Data File: >EQK23::D6 Dilution Factor: 1.00000
Name: 2906-04
Misc: HP1,2900,SVOAMLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#11

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	12134	20.00	ng/uL	97
2)	2-Fluorophenol	9.10	112.0	21217	35.44	ng/uL	96
3)	Phenol-d6	11.80	99.0	29016	34.35	ng/uL	93
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	49277	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.23	82.0	24142	30.61	ng/uL	88
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	31770	20.00	ng/uL	91
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.92	172.0	48719	28.18	ng/uL	95
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

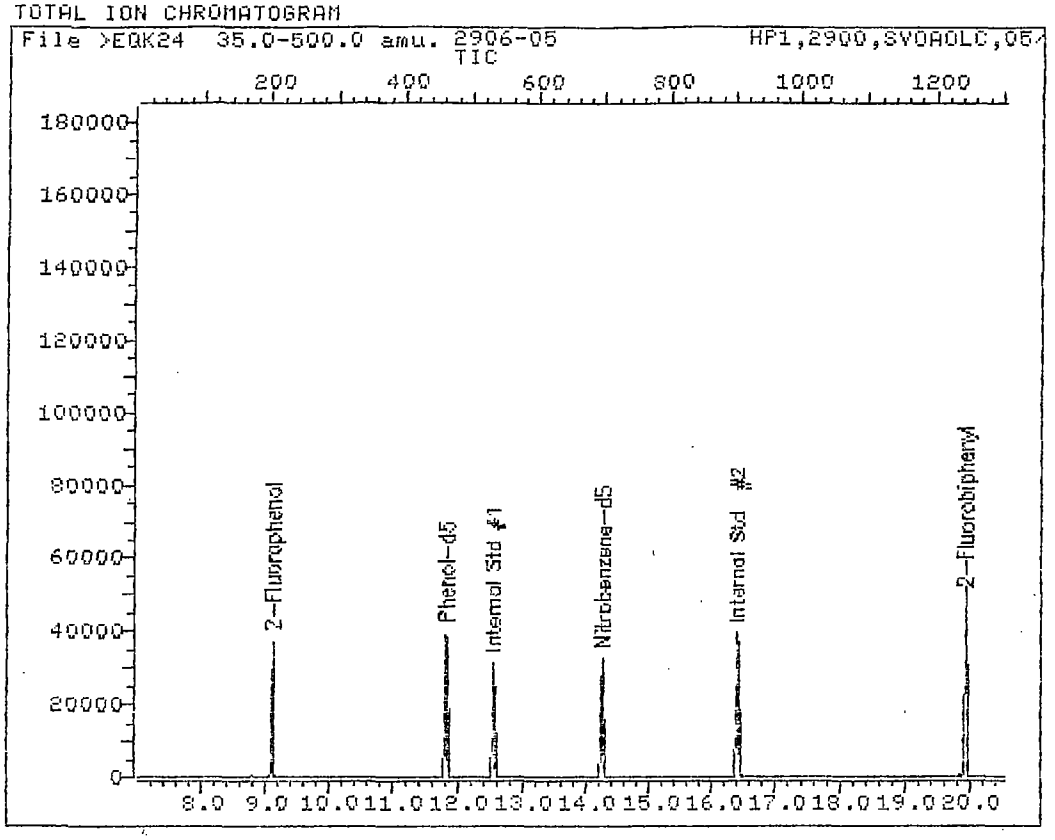
Operator ID: HP1B Quant Rev: 6 Quant Time: 920506 00:06
Output File: ^EQK23::D3 Injected at: 920505 23:16
Data File: >EQK23::D6 Dilution Factor: 1.00000
Name: 2906-04
Misc: HP1,2900,SUDADLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL$11

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.52	329.7	36784	100.38	ng/uL	100
50)	*d10-Phenanthrene	26.63	188.0	57707	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.11	240.0	56333	20.00	ng/uL	96
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
62)	Terphenyl-d14	31.87	244.0	72858	33.74	ng/uL	85
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.46	264.0	66644	20.00	ng/uL	93
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Name: 2906-05
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#12

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 01:04
Injected at: 920506 00:14

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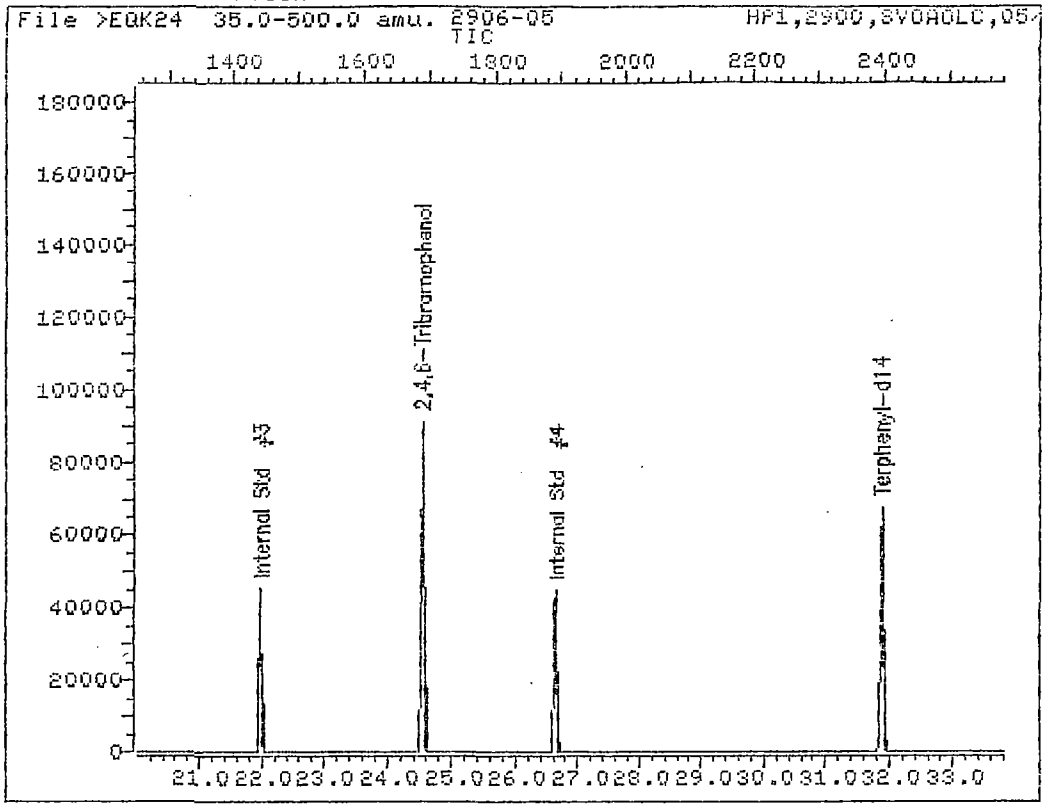
TOTAL ION CHROMATOGRAM



Data File: >EQK24::D6 Quant Output File: ^EQK24::D3
Name: 2906-05
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#12

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 01:04
Injected at: 920506 00:14

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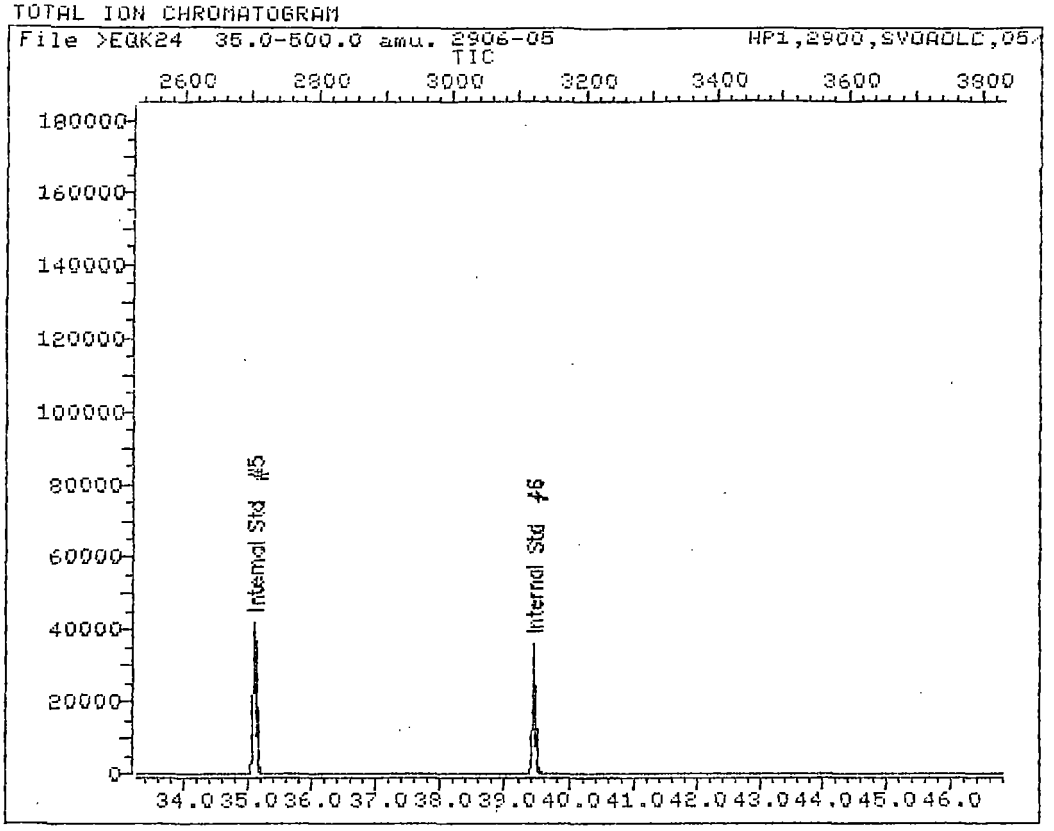
TOTAL ION CHROMATOGRAM



Data File: >EQK24::D6 Quant Output File: ^EQK24::D3
Name: 2906-05
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#12

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 01:04
Injected at: 920506 00:14

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QUANT REPORT pg.1

Operator ID: HP1R Quant Rev: 6 Quant Time: 920506 01:04
Output File: ^EQK24::D3 Injected at: 920506 00:14
Data File: >EQK24::D6 Dilution Factor: 1.00000
Name: 2906-05
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#12

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	11904	20.00	ng/uL	97
2)	2-Fluorophenol	9.10	112.0	20285	34.54	ng/uL	96
3)	Phenol-d6	11.80	99.0	27931	33.71	ng/uL	91
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/ul	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	47442	20.00	ng/uL	89
16)	Nitrobenzene-d5	14.24	82.0	23155	30.49	ng/uL	90
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	30671	20.00	ng/uL	89
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.92	172.0	46485	27.85	ng/uL	94
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

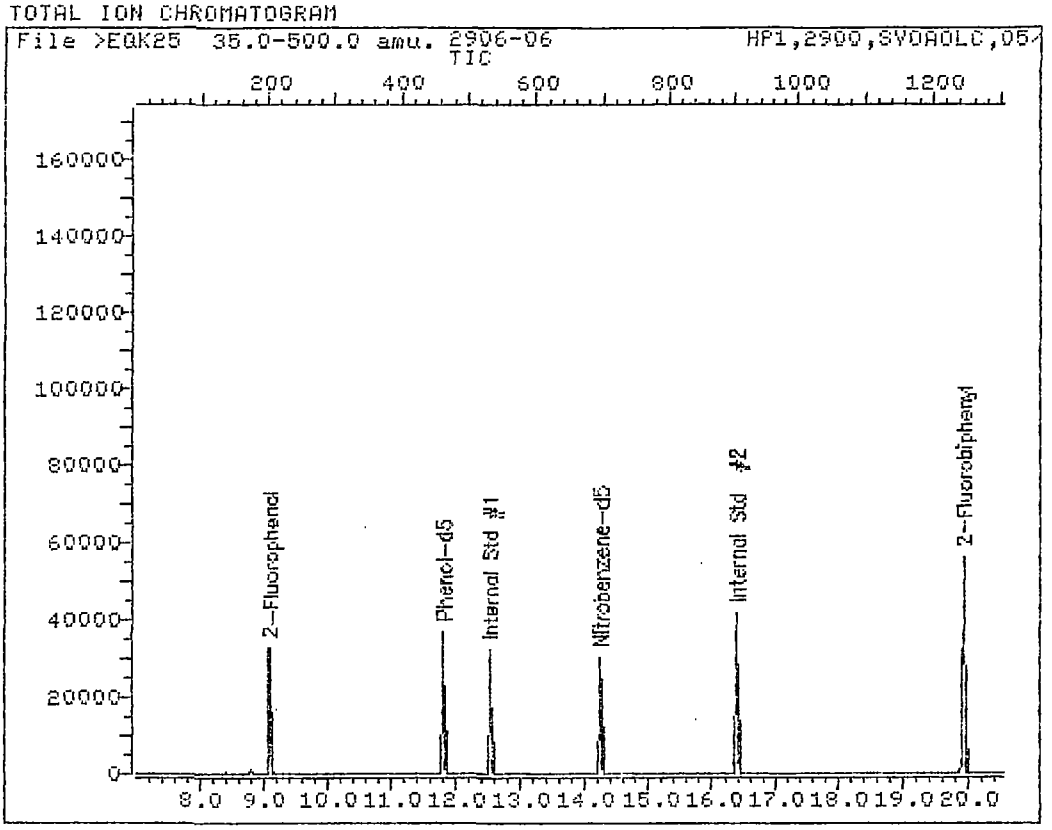
Operator ID: HP1B Quant Rev: 6 Quant Time: 920506 01:04
Output File: ^EQK24::D3 Injected at: 920506 00:14
Data File: >EQK24::D6 Dilution Factor: 1.00000
Name: 2906-05
Misc: HP1,2900,SVOADLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#12

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
√ 49)	2,4,6-Tribromophenol	24.53	329.7	37522	106.06	ng/uL	100
50)	*d10-Phenanthrene	26.64	188.0	56318	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	55728	20.00	ng/uL	95
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
√ 62)	Terphenyl-d14	31.87	244.0	76456	35.79	ng/uL	83
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	66554	20.00	ng/uL	94
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >EQK25::D6 Quant Output File: ^EQK25::D3
Name: 2906-06
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#13

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 02:01
Injected at: 920506 01:12

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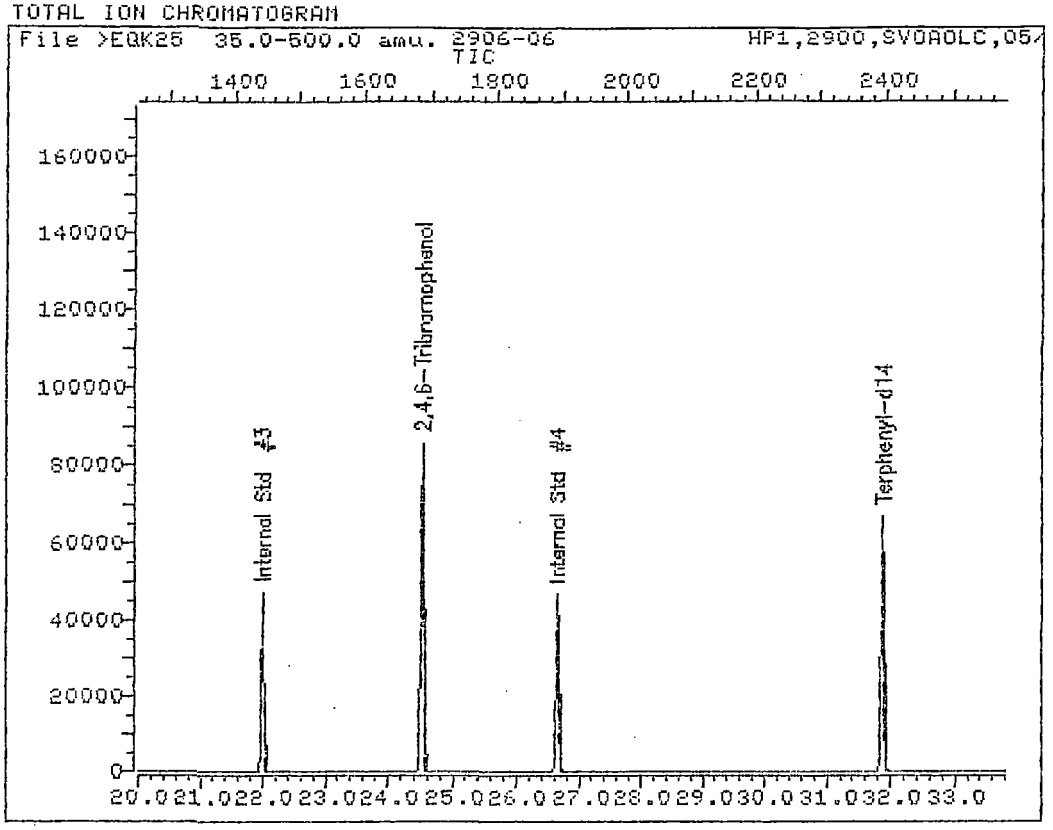
TOTAL ION CHROMATOGRAM



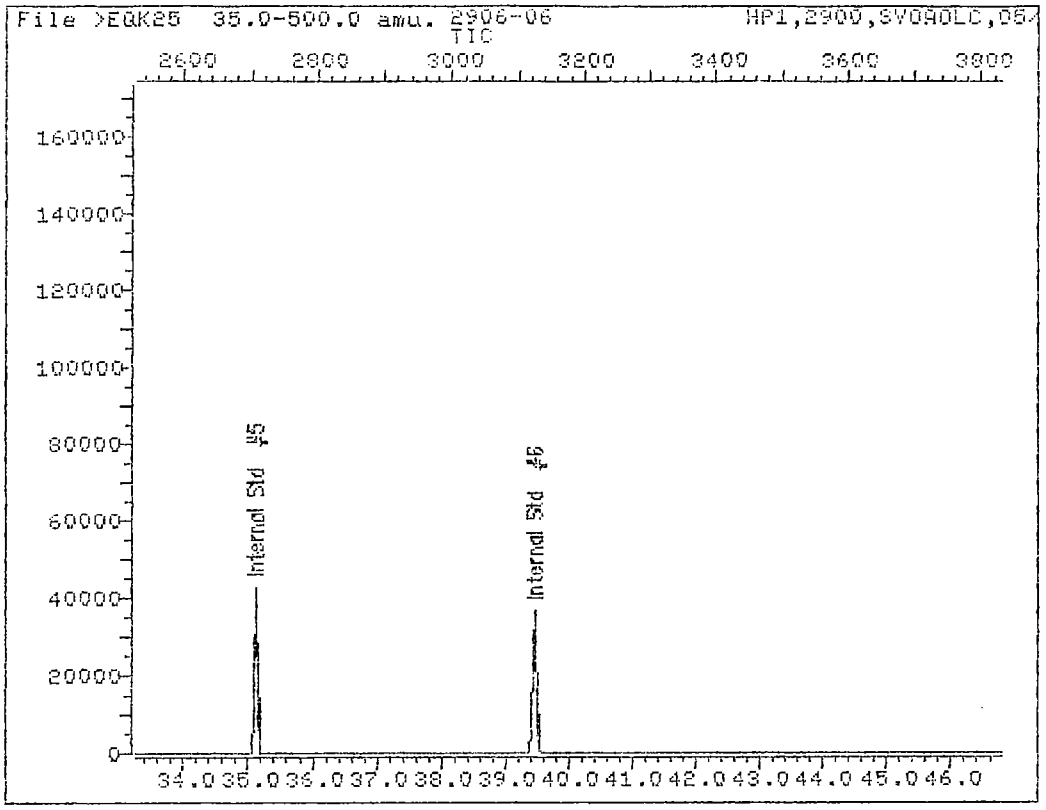
Data File: >EQK25::D6 Quant Output File: ^EQK25::D3
Name: 2906-06
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#13

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 02:01
Injected at: 920506 01:12

TIC page 2 of 3

TOTAL ION CHROMATOGRAM



Data File: >EQK25::D6 Quant Output File: ^EQK25::D3
Name: 2906-06
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#13

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 02:01
Injected at: 920506 01:12

TIC page 3 of 3

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920506 02:01
Output File: ^EQK25::D3 Injected at: 920506 01:12
Data File: >EQK25::D6 Dilution Factor: 1.00000
Name: 2906-06
Misc: HP1,2900,SVOAQLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#13

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	12054	20.00	ng/uL	95
2)	2-Fluorophenol	9.10	112.0	19045	32.02	ng/uL	97
3)	Phenol-d6	11.80	99.0	24702	29.44	ng/uL	95
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	48893	20.00	ng/uL	89
16)	Nitrobenzene-d5	14.23	82.0	21800	27.86	ng/uL	90
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	32154	20.00	ng/uL	91
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.92	172.0	47133	26.93	ng/uL	95
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

Operator ID: HP18 Quant Rev: 6 Quant Time: 920506 02:01
Output File: ^EQK25::D3 Injected at: 920506 01:12
Data File: >EQK25::D6 Dilution Factor: 1.00000
Name: 2906-06
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#13

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.52	329.7	34801	93.83	ng/uL	100
50)	*d10-Phenanthrene	26.63	188.0	58163	20.00	ng/uL	98
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	58032	20.00	ng/uL	95
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
62)	Terphenyl-d14	31.87	244.0	74739	33.59	ng/uL	84
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	67331	20.00	ng/uL	92
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:S-CUBED Contract:32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Instrument ID: HP1 Calibration Date(s):03/23/92 03/23/92

LAB FILE ID: RRF005=>BK005 RRF010=>BK010
RRF020=>BK020 RRF050=>BK050 RRF080=>BK080

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF080	$\overline{RRF}$	% RSD
Phenol *	1.618	1.669	1.628	1.983	1.757	1.731	8.7*
bis(2-Chloroethyl)ether *	1.383	1.465	1.430	1.741	1.530	1.510	9.3*
2-Chlorophenol *	1.297	1.346	1.304	1.593	1.426	1.393	8.8*
1,3-Dichlorobenzene *	1.438	1.493	1.418	1.722	1.506	1.515	8.0*
1,4-Dichlorobenzene *	1.438	1.493	1.418	1.722	1.506	1.515	8.0*
1,2-Dichlorobenzene *	1.466	1.551	1.474	1.773	1.569	1.567	7.9*
2-Methylphenol *	1.238	1.251	1.221	1.478	1.287	1.295	8.1*
2,2'-oxybis(1-Chloropropane	2.497	2.473	2.320	2.898	2.617	2.561	8.4
4-Methylphenol *	1.238	1.251	1.221	1.478	1.287	1.295	8.1*
N-Nitroso-di-n-propylamine *	1.349	1.409	1.328	1.554	1.415	1.411	6.3*
Hexachloroethane *	0.528	0.557	0.531	0.622	0.521	0.552	7.5*
Nitrobenzene *	0.380	0.401	0.390	0.481	0.429	0.416	9.7*
Isophorone *	0.871	0.917	0.844	1.064	0.934	0.926	9.2*
2-Nitrophenol *	0.181	0.197	0.193	0.251	0.229	0.210	13.8*
2,4-Dimethylphenol *	0.349	0.353	0.344	0.428	0.387	0.372	9.5*
bis(2-Chloroethoxy)methane *	0.458	0.474	0.444	0.551	0.486	0.482	8.6*
2,4-Dichlorophenol *	0.292	0.306	0.298	0.371	0.328	0.319	10.0*
1,2,4-Trichlorobenzene *	0.322	0.336	0.322	0.392	0.345	0.344	8.4*
Naphthalene *	1.039	1.076	0.985	1.203	1.050	1.071	7.6*
4-Chloroaniline	0.298	0.339	0.342	0.432	0.400	0.362	14.7
Hexachlorobutadiene	0.183	0.193	0.181	0.218	0.190	0.193	7.6
4-Chloro-3-methylphenol *	0.328	0.363	0.343	0.433	0.376	0.369	11.0*
2-Methylnaphthalene *	0.678	0.692	0.639	0.788	0.673	0.694	8.1*
Hexachlorocyclopentadiene	0.136	0.194	0.228	0.319	0.289	0.233	31.5
2,4,6-Trichlorophenol *	0.320	0.362	0.347	0.441	0.383	0.370	12.3*
2,4,5-Trichlorophenol *	0.337	0.341	0.341	0.425	0.397	0.368	10.9*
2-Chloronaphthalene *	1.022	1.053	1.025	1.242	1.097	1.088	8.4*
2-Nitroaniline	1.546	2.014	1.590	0.973	0.681	1.361	39.0
Dimethylphthalate	1.386	1.457	1.337	1.685	1.425	1.458	9.2
Acenaphthylene *	1.767	1.850	1.741	2.162	1.831	1.870	9.0*
2,6-Dinitrotoluene *	0.296	0.339	0.335	0.427	0.380	0.356	14.1*
3-Nitroaniline	0.144	0.148	0.142	0.253	0.287	0.195	35.9
Acenaphthene *	1.069	1.116	1.043	1.287	1.108	1.124	8.5*
2,4-Dinitrophenol	0.080	0.137	0.153	0.227	0.232	0.166	38.8
4-Nitrophenol	0.122	0.135	0.133	0.170	0.162	0.145	14.2
Dibenzofuran *	1.526	1.552	1.438	1.807	1.573	1.579	8.7*
2,4-Dinitrotoluene *	0.422	0.474	0.450	0.592	0.523	0.492	13.6*

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: S-CUBED Contract: 32380-02

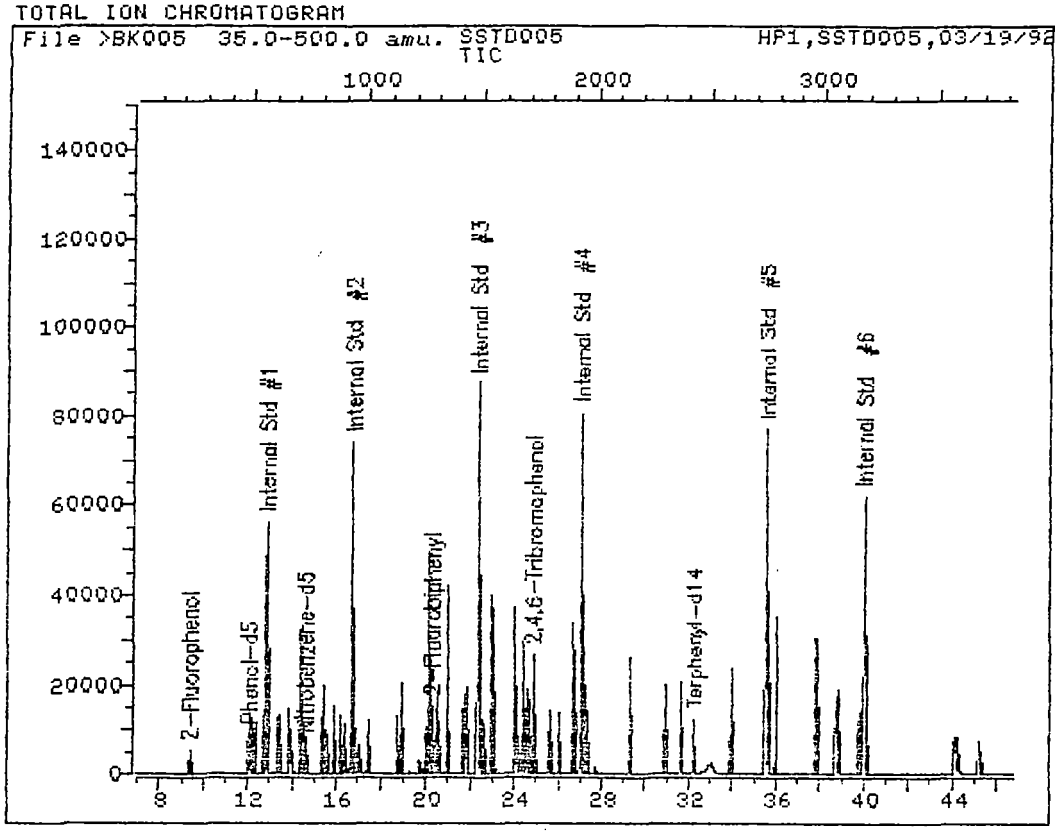
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Instrument ID: HP1 Calibration Date(s): 03/23/92 03/23/92

LAB FILE ID: RRF005=>BK005 RRF010=>BK010
RRF020=>BK020 RRF050=>BK050 RRF080=>BK080

COMPOUND		RRF005	RRF010	RRF020	RRF050	RRF080	$\overline{RRF}$	% RSD
Diethylphthalate		1.443	1.497	1.391	1.675	1.353	1.472	8.6
4-Chlorophenyl-phenylether	*	0.621	0.640	0.620	0.739	0.610	0.646	8.2*
Fluorene	*	1.234	1.265	1.192	1.413	1.170	1.255	7.6*
4-Nitroaniline		0.082	0.102	0.092	0.219	0.264	0.152	55.2
4,6-Dinitro-2-methylphenol		0.128	0.147	0.149	0.188	0.174	0.157	15.2
N-Nitrosodiphenylamine (1)		0.461	0.429	0.394	0.527	0.462	0.455	10.9
4-Bromophenyl-phenylether	*	0.219	0.231	0.214	0.267	0.230	0.232	8.9*
Hexachlorobenzene	*	0.282	0.286	0.267	0.328	0.277	0.288	8.1*
Pentachlorophenol	*	0.142	0.148	0.151	0.187	0.178	0.161	12.3*
Phenanthrene	*	1.108	1.115	1.047	1.291	1.114	1.135	8.1*
Anthracene	*	1.100	1.131	1.052	1.282	1.122	1.137	7.6*
Di-n-butylphthalate		1.482	1.549	1.434	1.819	1.595	1.576	9.5
Fluoranthene	*	1.149	1.183	1.129	1.395	1.226	1.216	8.7*
Pyrene	*	1.184	1.219	1.190	1.435	1.297	1.265	8.3*
Butylbenzylphthalate		0.626	0.656	0.632	0.797	0.724	0.687	10.6
3,3'-Dichlorobenzidine		0.113	0.150	0.167	0.219	0.233	0.176	28.0
Benzo(a)anthracene	*	1.115	1.156	1.115	1.387	1.234	1.201	9.5*
Chrysene	*	1.087	1.119	1.067	1.312	1.168	1.151	8.5*
bis(2-Ethylhexyl)phthalate		0.942	0.984	0.944	1.180	1.043	1.019	9.7
Di-n-octylphthalate		1.311	1.452	1.439	2.035	1.922	1.632	19.9
Benzo(b)fluoranthene	*	0.978	1.036	1.080	1.505	1.332	1.186	18.9*
Benzo(k)fluoranthene	*	0.986	1.043	0.955	0.981	0.837	0.961	7.9*
Benzo(a)pyrene	*	0.876	0.929	0.920	1.168	1.022	0.983	11.8*
Indeno(1,2,3-cd)pyrene	*	0.857	0.941	0.850	1.067	0.987	0.940	9.7*
Dibenz(a,h)anthracene	*	0.689	0.773	0.704	0.884	0.813	0.773	10.4*
Benzo(g,h,i)perylene	*	0.723	0.793	0.710	0.920	0.843	0.798	10.9*
Nitrobenzene-d5	*	0.237	0.315	0.319	0.374	0.356	0.320	16.4*
2-Fluorobiphenyl	*	0.911	1.079	1.082	1.190	1.076	1.068	9.3*
Terphenyl-d14	*	0.647	0.780	0.792	0.862	0.824	0.781	10.4*
Phenol-d6	*	1.075	1.236	1.383	1.589	1.555	1.368	15.8*
2-Fluorophenol	*	0.719	0.868	0.962	1.124	1.115	0.958	17.8*
2,4,6-Tribromophenol		0.180	0.217	0.225	0.259	0.243	0.225	13.3

TOTAL ION CHROMATOGRAM



Data File: >BK005::D6 Quant Output File: ^BK005::D2
Name: SSTD005
Misc: HP1,SSTD005,03/19/92 BTL# 1

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

Operator ID: HP1B
Quant Time: 920323 16:17
Injected at: 920323 15:27

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 16:17
Output File: ^BK005::D2 Injected at: 920323 15:27
Data File: >BK005::D6 Dilution Factor: 1.00000
Name: SSTD005
Misc: HP1,SSTD005,03/19/92 BTL# 1

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.80	152.0	23018	20.00	ng/uL	96
2)	2-Fluorophenol	9.34	112.0	4140	3.59	ng/uL	98
3)	Phenol-d6	12.03	99.0	6188	3.84	ng/uL	98
4)	Phenol	12.06	94.0	9310	4.94	ng/uL	75
5)	bis(2-Chloroethyl)ether	12.20	93.0	7958	5.13	ng/uL	72
6)	2-Chlorophenol	12.28	128.0	7464	4.99	ng/uL	97
7)	1,3-Dichlorobenzene	12.67	146.0	8273	5.13	ng/uL	96
8)	1,4-Dichlorobenzene	12.67	146.0	8273	5.12	ng/uL	96
9)	1,2-Dichlorobenzene	12.84	146.0	8436	5.04	ng/uL	94
10)	2-Methylphenol	13.78	108.0	7124	5.07	ng/uL	80
11)	2,2'-oxybis(1-Chloropropane)	13.84	45.0	14372	5.15	ng/uL	98
12)	4-Methylphenol	13.78	108.0	7124	5.07	ng/uL	55
13)	N-Nitroso-di-n-propylamine	14.23	70.0	7764	5.18	ng/uL	92
14)	Hexachloroethane	14.31	117.0	3038	4.86	ng/uL	91
15)	*d8-Naphthalene	16.68	136.0	92828	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.51	82.0	5500	3.56	ng/uL	92
17)	Nitrobenzene	14.56	77.0	8817	4.91	ng/uL	92
18)	Isophorone	15.32	82.0	20216	4.99	ng/uL	88
19)	2-Nitrophenol	15.56	139.0	4196	4.41	ng/uL	93
20)	2,4-Dimethylphenol	15.84	107.0	8105	4.96	ng/uL	94
21)	bis(2-Chloroethoxy)methane	16.11	93.0	10619	4.99	ng/uL	94
22)	2,4-Dichlorophenol	16.32	162.0	6782	4.68	ng/uL	92
23)	1,2,4-Trichlorobenzene	16.58	180.0	7473	4.92	ng/uL	95
24)	Naphthalene	16.74	128.0	24119	5.16	ng/uL	98
25)	4-Chloroaniline	17.01	127.0	6918	3.65	ng/uL	96
26)	Hexachlorobutadiene	17.40	225.0	4237	4.91	ng/uL	95
27)	4-Chloro-3-methylphenol	18.65	107.0	7607	4.60	ng/uL	92
28)	2-Methylnaphthalene	18.93	142.0	15737	5.21	ng/uL	89
29)	*d10-Acenaphthene	22.29	164.0	62367	20.00	ng/uL	90
30)	Hexachlorocyclopentadiene	19.71	237.0	2114	2.54	ng/uL	97
31)	2,4,6-Trichlorophenol	19.94	196.0	4983	4.76	ng/uL	93
32)	2,4,5-Trichlorophenol	20.06	196.0	21027	19.36	ng/uL	92
33)	2-Chloronaphthalene	20.44	162.0	15930	5.05	ng/uL	97
34)	2-Fluorobiphenyl	20.21	172.0	14205	4.22	ng/uL	93
35)	2-Nitroaniline	20.91	65.0	24097	4.80	ng/uL	90
36)	Dimethylphthalate	21.68	163.0	21612	5.01	ng/uL	79
37)	Acenaphthylene	21.77	152.0	27556	5.03	ng/uL	93
38)	2,6-Dinitrotoluene	21.84	165.0	4615	4.33	ng/uL	94
39)	3-Nitroaniline	22.23	138.0	8952	10.02	ng/uL	97
40)	Acenaphthene	22.39	153.0	16663	5.01	ng/uL	95

QUANT REPORT pg. 2

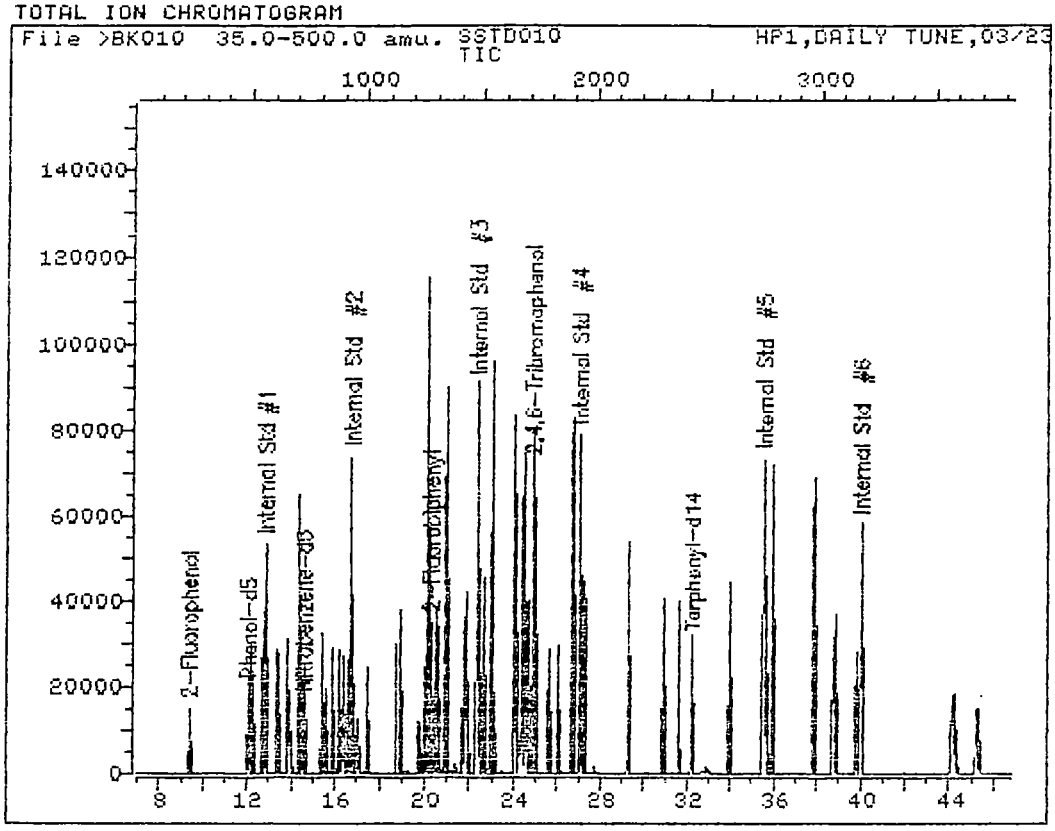
Operator ID: HP18 Quant Rev: 6 Quant Time: 920323 16:17
Output File: ^BK005::D2 Injected at: 920323 15:27
Data File: >BK005::D6 Dilution Factor: 1.00000
Name: SSTD005
Misc: HP1,SSTD005,03/19/92 BTL# 1

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	22.55	184.0	4961	26.21	ng/uL	88
42)	4-Nitrophenol	22.87	109.0	7627	18.91	ng/uL	86
43)	Dibenzofuran	22.90	168.0	23788	5.28	ng/uL	54
44)	2,4-Dinitrotoluene	23.05	165.0	6578	4.55	ng/uL	93
45)	Diethylphthalate	23.98	149.0	22495	5.14	ng/uL	93
46)	4-Chlorophenyl-phenylether	24.07	204.0	9683	5.00	ng/uL	91
47)	Fluorene	24.00	166.0	19238	5.04	ng/uL	97
48)	4-Nitroaniline	24.20	138.0	5094	10.94	ng/uL	85
49)	2,4,6-Tribromophenol	24.83	329.7	11231	15.74	ng/uL	100
50)	*d10-Phenanthrene	26.98	188.0	104546	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	24.36	198.0	13351	21.48	ng/uL	90
52)	N-Nitrosodiphenylamine	24.47	169.0	12044	5.28	ng/uL	94
53)	4-Bromophenyl-phenylether	25.61	248.0	5727	5.03	ng/uL	83
54)	Hexachlorobenzene	26.03	284.0	7362	5.22	ng/uL	93
55)	Pentachlorophenol	26.63	266.0	14815	21.72	ng/uL	98
56)	Phenanthrene	27.04	178.0	28964	5.38	ng/uL	99
57)	Anthracene	27.18	178.0	28752	5.19	ng/uL	98
58)	Di-n-butylphthalate	29.20	149.0	38745	4.99	ng/uL	98
59)	Fluoranthene	30.85	202.0	30026	4.89	ng/uL	91
60)	*d12-Chrysene	35.49	240.0	105694	20.00	ng/uL	94
61)	Pyrene	31.55	202.0	31278	5.18	ng/uL	96
62)	Terphenyl-d14	32.19	244.0	17086	4.21	ng/uL	86
63)	Butylbenzylphthalate	33.94	149.0	16545	5.04	ng/uL	90
64)	3,3'-Dichlorobenzidine	35.43	252.0	2982	3.04	ng/uL	95
65)	Benzo(a)anthracene	35.42	228.0	29458	4.99	ng/uL	97
66)	Chrysene	35.56	228.0	28713	5.11	ng/uL	94
67)	Bis(2-Ethylhexyl)phthalate	35.91	149.0	24894	5.00	ng/uL	86
68)	*d12-Perylene	39.96	264.0	126030	20.00	ng/uL	93
69)	Di-n-octylphthalate	37.76	149.0	41294	4.55	ng/uL	87
70)	Benzo(b)fluoranthene	38.71	252.0	30801	4.77	ng/uL	92
71)	Benzo(k)fluoranthene	38.79	252.0	31077	4.98	ng/uL	91
72)	Benzo(a)pyrene	39.73	252.0	27612	4.74	ng/uL	95
73)	Indeno(1,2,3-cd)pyrene	44.03	276.0	27018	4.44	ng/uL	92
74)	Dibenz(a,h)anthracene	44.13	278.0	21717	4.30	ng/uL	95
75)	Benzo(g,h,i)perylene	45.21	276.0	22790	4.42	ng/uL	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BK010::D6 Quant Output File: ^BK010::D2
Name: SSTD010
Misc: HP1,DAILY TUNE,03/23/92 BTL# 4

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

Operator ID: HP1B
Quant Time: 920323 14:14
Injected at: 920323 13:24

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 14:14
Output File: ^BK010::D2 Injected at: 920323 13:24
Data File: >BK010::D6 Dilution Factor: 1.00000
Name: SSTD010
Misc: HP1,DAILY TUNE,03/23/92 BTL# 4

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.80	152.0	22421	20.00	ng/uL	95
2)	2-Fluorophenol	9.35	112.0	9735	8.66	ng/uL	98
3)	Phenol-d6	12.04	99.0	13857	8.83	ng/uL	93
4)	Phenol	12.08	94.0	18707	10.19	ng/uL	77
5)	bis(2-Chloroethyl)ether	12.20	93.0	16428	10.87	ng/uL	81
6)	2-Chlorophenol	12.28	128.0	15088	10.36	ng/uL	97
7)	1,3-Dichlorobenzene	12.68	146.0	16739	10.65	ng/uL	97
8)	1,4-Dichlorobenzene	12.68	146.0	16739	10.64	ng/uL	96
9)	1,2-Dichlorobenzene	12.85	146.0	17386	10.67	ng/uL	95
10)	2-Methylphenol	13.80	108.0	14023	10.24	ng/uL	89
11)	2,2'-oxybis(1-Chloropropane)	13.85	45.0	27719	10.20	ng/uL	96
12)	4-Methylphenol	13.80	108.0	14023	10.24	ng/uL	67
13)	N-Nitroso-di-n-propylamine	14.24	70.0	15797	10.82	ng/uL	93
14)	Hexachloroethane	14.32	117.0	6248	10.27	ng/uL	97
15)	*d8-Naphthalene	16.68	136.0	89518	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.52	82.0	14111	9.48	ng/uL	90
17)	Nitrobenzene	14.58	77.0	17970	10.38	ng/uL	91
18)	Isophorone	15.34	82.0	41044	10.51	ng/uL	89
19)	2-Nitrophenol	15.57	139.0	8793	9.59	ng/uL	93
20)	2,4-Dimethylphenol	15.85	107.0	15783	10.02	ng/uL	95
21)	bis(2-Chloroethoxy)methane	16.12	93.0	21193	10.33	ng/uL	95
22)	2,4-Dichlorophenol	16.33	162.0	13683	9.80	ng/uL	94
23)	1,2,4-Trichlorobenzene	16.58	180.0	15018	10.25	ng/uL	94
24)	Naphthalene	16.74	128.0	48176	10.69	ng/uL	97
25)	4-Chloroaniline	17.01	127.0	15152	8.28	ng/uL	99
26)	Hexachlorobutadiene	17.40	225.0	8651	10.39	ng/uL	93
27)	4-Chloro-3-methylphenol	18.65	107.0	16265	10.20	ng/uL	92
28)	2-Methylnaphthalene	18.94	142.0	30993	10.64	ng/uL	89
29)	*d10-Acenaphthene	22.31	164.0	59695	20.00	ng/uL	93
30)	Hexachlorocyclopentadiene	19.71	237.0	5800	7.29	ng/uL	97
31)	2,4,6-Trichlorophenol	19.96	196.0	10791	10.78	ng/uL	93
32)	2,4,5-Trichlorophenol	20.07	196.0	50961	49.02	ng/uL	95
33)	2-Chloronaphthalene	20.46	162.0	31444	10.42	ng/uL	95
34)	2-Fluorobiphenyl	20.23	172.0	32217	10.01	ng/uL	95
35)	2-Nitroaniline	20.94	65.0	60107	12.50	ng/uL	89
36)	Dimethylphthalate	21.69	163.0	43492	10.54	ng/uL	79
37)	Acenaphthylene	21.79	152.0	55220	10.53	ng/uL	93
38)	2,6-Dinitrotoluene	21.85	165.0	10124	9.93	ng/uL	96
39)	3-Nitroaniline	22.26	138.0	22102	25.85	ng/uL	94
40)	Acenaphthene	22.40	153.0	33310	10.45	ng/uL	95

QUANT REPORT pg. 2

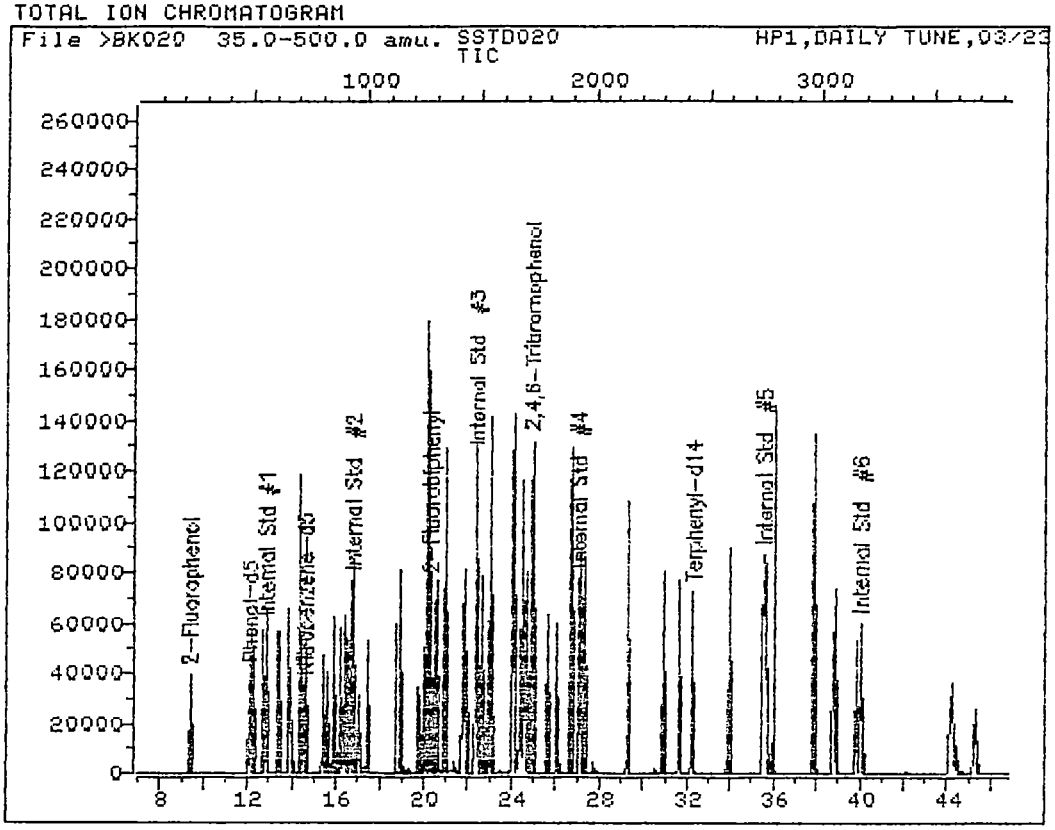
Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 14:14
Output File: ^BK010::D2 Injected at: 920323 13:24
Data File: >BK010::D6 Dilution Factor: 1.00000
Name: SSTD010
Misc: HP1,DAILY TUNE,03/23/92 BTL# 4

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	22.58	184.0	20373	112.46	ng/uL	91
42)	4-Nitrophenol	22.92	109.0	20189	52.29	ng/uL	76
43)	Dibenzofuran	22.91	168.0	46332M	10.74	ng/uL	
44)	2,4-Dinitrotoluene	23.07	165.0	14137	10.22	ng/uL	92
45)	Diethylphthalate	24.01	149.0	44671	10.65	ng/uL	94
46)	4-Chlorophenyl-phenylether	24.08	204.0	19089	10.30	ng/uL	86
47)	Fluorene	24.01	166.0	37764	10.34	ng/uL	97
48)	4-Nitroaniline	24.26	138.0	15247	34.22	ng/uL	94
49)	2,4,6-Tribromophenol	24.84	329.7	32377	47.42	ng/uL	100
50)	*d10-Phenanthrene	26.99	188.0	100664	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	24.39	198.0	37053	61.90	ng/uL	89
52)	N-Nitrosodiphenylamine	24.50	169.0	21574	9.82	ng/uL	96
53)	4-Bromophenyl-phenylether	25.61	248.0	11615	10.59	ng/uL	83
54)	Hexachlorobenzene	26.04	284.0	14384	10.58	ng/uL	89
55)	Pentachlorophenol	26.64	266.0	37348	56.86	ng/uL	97
56)	Phenanthrene	27.06	178.0	56120	10.82	ng/uL	99
57)	Anthracene	27.19	178.0	56902	10.67	ng/uL	98
58)	Di-n-butylphthalate	29.22	149.0	77982	10.43	ng/uL	96
59)	Fluoranthene	30.87	202.0	59564	10.08	ng/uL	93
60)	*d12-Chrysene	35.50	240.0	100294	20.00	ng/uL	97
61)	Pyrene	31.56	202.0	61141	10.68	ng/uL	97
62)	Terphenyl-d14	32.20	244.0	39101	10.15	ng/uL	84
63)	Butylbenzylphthalate	33.95	149.0	32876	10.55	ng/uL	93
64)	3,3'-Dichlorobenzidine	35.45	252.0	7539	8.10	ng/uL	99
65)	Benzo(a)anthracene	35.43	228.0	57948	10.34	ng/uL	95
66)	Chrysene	35.57	228.0	56140	10.52	ng/uL	93
67)	Bis(2-Ethylhexyl)phthalate	35.93	149.0	49321	10.44	ng/uL	89
68)	*d12-Perylene	39.96	264.0	116557	20.00	ng/uL	93
69)	Di-n-octylphthalate	37.76	149.0	84606	10.09	ng/uL	86
70)	Benzo(b)fluoranthene	38.73	252.0	60355	10.11	ng/uL	92
71)	Benzo(k)fluoranthene	38.80	252.0	60814	10.54	ng/uL	91
72)	Benzo(a)pyrene	39.74	252.0	54172	10.05	ng/uL	96
73)	Indeno(1,2,3-cd)pyrene	44.05	276.0	54812	9.74	ng/uL	95
74)	Dibenz(a,h)anthracene	44.14	278.0	45059	9.65	ng/uL	97
75)	Benzo(g,h,i)perylene	45.23	276.0	46237	9.69	ng/uL	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BK020::D6 Quant Output File: ^BK020::D2
Name: SSTD020
Misc: HP1,DAILY TUNE,03/23/92 BTL# 2

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

Operator ID: HP1B
Quant Time: 920323 12:19
Injected at: 920323 11:29

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 12:19
Output File: ^BK020::D2 Injected at: 920323 11:29
Data File: >BK020::D6 Dilution Factor: 1.00000
Name: SSTD020
Misc: HP1,DAILY TUNE,03/23/92 BTL# 2

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.80	152.0	24320	20.00	ng/uL	94
2)	2-Fluorophenol	9.35	112.0	23403	19.18	ng/uL	94
3)	Phenol-d6	12.05	99.0	33631	19.76	ng/uL	91
4)	Phenol	12.09	94.0	39595	19.89	ng/uL	74
5)	bis(2-Chloroethyl)ether	12.21	93.0	34777	21.22	ng/uL	79
6)	2-Chlorophenol	12.29	128.0	31714	20.07	ng/uL	99
7)	1,3-Dichlorobenzene	12.68	146.0	34482	20.22	ng/uL	97
8)	1,4-Dichlorobenzene	12.68	146.0	34482	20.21	ng/uL	96
9)	1,2-Dichlorobenzene	12.85	146.0	35849	20.29	ng/uL	95
10)	2-Methylphenol	13.81	108.0	29702	20.00	ng/uL	85
11)	2,2'-oxybis(1-Chloropropane)	13.85	45.0	56415	19.14	ng/uL	98
12)	4-Methylphenol	13.81	108.0	29702	19.99	ng/uL	62
13)	N-Nitroso-di-n-propylamine	14.26	70.0	32285	20.39	ng/uL	94
14)	Hexachloroethane	14.32	117.0	12925	19.58	ng/uL	96
15)	*d8-Naphthalene	16.69	136.0	97653	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.53	82.0	31113	19.17	ng/uL	91
17)	Nitrobenzene	14.59	77.0	38103	20.17	ng/uL	91
18)	Isophorone	15.39	82.0	82428	19.35	ng/uL	88
19)	2-Nitrophenol	15.57	139.0	18818	18.81	ng/uL	96
20)	2,4-Dimethylphenol	15.86	107.0	33621	19.57	ng/uL	96
21)	bis(2-Chloroethoxy)methane	16.13	93.0	43317	19.36	ng/uL	94
22)	2,4-Dichlorophenol	16.34	162.0	29120	19.12	ng/uL	92
23)	1,2,4-Trichlorobenzene	16.59	180.0	31490	19.70	ng/uL	93
24)	Naphthalene	16.75	128.0	96196	19.57	ng/uL	97
25)	4-Chloroaniline	17.02	127.0	33426	16.75	ng/uL	98
26)	Hexachlorobutadiene	17.40	225.0	17687	19.47	ng/uL	94
27)	4-Chloro-3-methylphenol	18.66	107.0	33538	19.27	ng/uL	91
28)	2-Methylnaphthalene	18.94	142.0	62413	19.64	ng/uL	89
29)	*d10-Acenaphthene	22.31	164.0	62938	20.00	ng/uL	94
30)	Hexachlorocyclopentadiene	19.71	237.0	14363	17.13	ng/uL	99
31)	2,4,6-Trichlorophenol	19.96	196.0	21865	20.71	ng/uL	89
32)	2,4,5-Trichlorophenol	20.08	196.0	85856	78.33	ng/uL	95
33)	2-Chloronaphthalene	20.47	162.0	64494	20.28	ng/uL	98
34)	2-Fluorobiphenyl	20.23	172.0	68129	20.08	ng/uL	95
35)	2-Nitroaniline	20.97	65.0	100069	19.74	ng/uL	88
36)	Dimethylphthalate	21.72	163.0	84173	19.34	ng/uL	81
37)	Acenaphthylene	21.79	152.0	109574	19.81	ng/uL	94
38)	2,6-Dinitrotoluene	21.86	165.0	21085	19.61	ng/uL	95
39)	3-Nitroaniline	22.29	138.0	35687	39.58	ng/uL	98
40)	Acenaphthene	22.40	153.0	65610	19.53	ng/uL	95

QUANT REPORT pg. 2

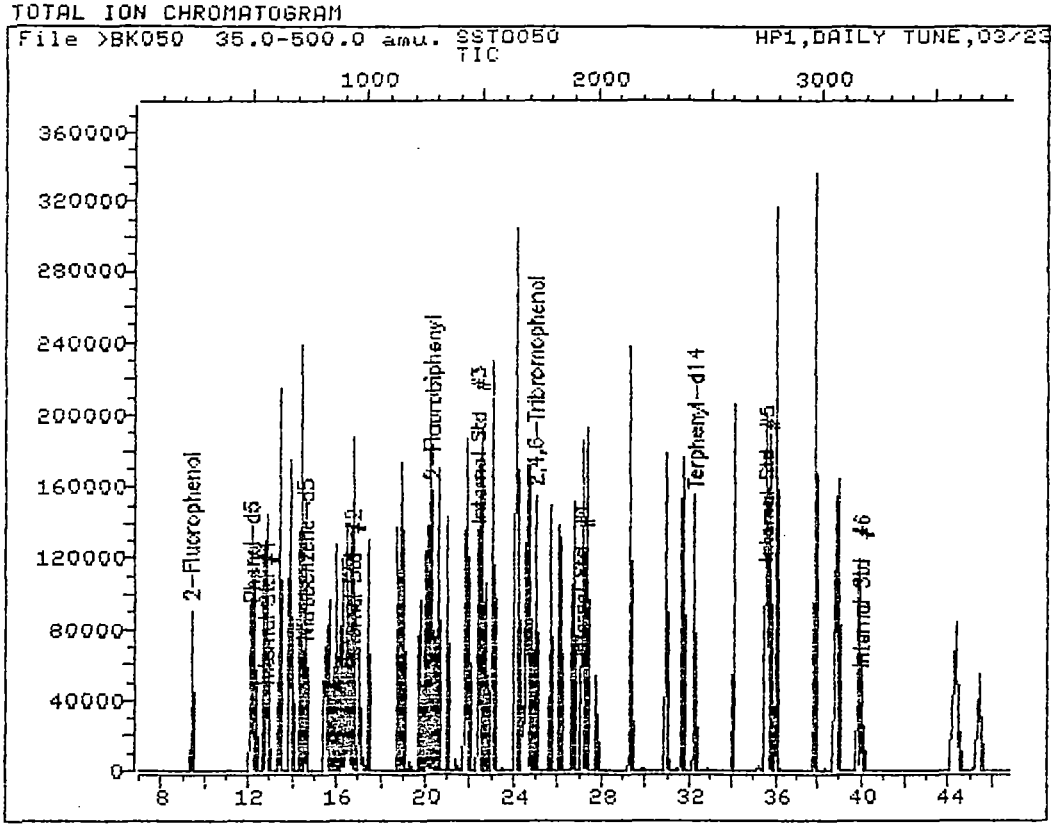
Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 12:19
Output File: ^BK020::D2 Injected at: 920323 11:29
Data File: >BK020::D6 Dilution Factor: 1.00000
Name: SSTD020
Misc: HP1,DAILY TUNE,03/23/92 BTL# 2

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	22.60	184.0	38628	202.23	ng/uL	92
42)	4-Nitrophenol	22.94	109.0	33535	82.39	ng/uL	80
43)	Dibenzofuran	22.92	168.0	90515	19.90	ng/uL	50
44)	2,4-Dinitrotoluene	23.09	165.0	28343	19.44	ng/uL	90
45)	Diethylphthalate	24.03	149.0	87531	19.80	ng/uL	94
46)	4-Chlorophenyl-phenylether	24.09	204.0	39017	19.97	ng/uL	92
47)	Fluorene	24.02	166.0	75046	19.50	ng/uL	98
48)	4-Nitroaniline	24.32	138.0	23227	49.45	ng/uL	86
49)	2,4,6-Tribromophenol	24.87	329.7	56568	78.58	ng/uL	100
50)	*d10-Phenanthrene	27.00	188.0	107556	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	24.43	198.0	64219	100.41	ng/uL	91
52)	N-Nitrosodiphenylamine	24.51	169.0	42372	18.05	ng/uL	96
53)	4-Bromophenyl-phenylether	25.63	248.0	23062	19.69	ng/uL	79
54)	Hexachlorobenzene	26.05	284.0	28706	19.77	ng/uL	91
55)	Pentachlorophenol	26.64	266.0	64811	92.35	ng/uL	97
56)	Phenanthrene	27.07	178.0	112644	20.32	ng/uL	99
57)	Anthracene	27.21	178.0	113109	19.85	ng/uL	98
58)	Di-n-butylphthalate	29.22	149.0	154202	19.30	ng/uL	96
59)	Fluoranthene	30.87	202.0	121420	19.23	ng/uL	90
60)	*d12-Chrysene	35.51	240.0	104061	20.00	ng/uL	96
61)	Pyrene	31.58	202.0	123785	20.84	ng/uL	98
62)	Terphenyl-d14	32.21	244.0	82393	20.62	ng/uL	85
63)	Butylbenzylphthalate	33.95	149.0	65792	20.34	ng/uL	88
64)	3,3'-Dichlorobenzidine	35.45	252.0	17365	17.99	ng/uL	99
65)	Benzo(a)anthracene	35.44	228.0	116077	19.97	ng/uL	96
66)	Chrysene	35.59	228.0	111073	20.07	ng/uL	92
67)	Bis(2-Ethylhexyl)phthalate	35.93	149.0	98228	20.03	ng/uL	89
68)	*d12-Perylene	39.97	264.0	120966	20.00	ng/uL	94
69)	Di-n-octylphthalate	37.77	149.0	174087	20.00	ng/uL	85
70)	Benzo(b)fluoranthene	38.76	252.0	130647	21.08	ng/uL	90
71)	Benzo(k)fluoranthene	38.83	252.0	115575	19.30	ng/uL	91
72)	Benzo(a)pyrene	39.76	252.0	111272	19.89	ng/uL	95
73)	Indeno(1,2,3-cd)pyrene	44.07	276.0	102769	17.59	ng/uL	94
74)	Dibenz(a,h)anthracene	44.18	278.0	85226	17.59	ng/uL	96
75)	Benzo(g,h,i)perylene	45.29	276.0	85931	17.35	ng/uL	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BK050::D6 Quant Output File: ^BK050::D2
Name: SSTD050
Misc: HP1,DAILY TUNE,03/23/92 BTL# 3

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

Operator ID: HP1B
Quant Time: 920323 13:16
Injected at: 920323 12:27

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 13:16
Output File: ^BK050::D2 Injected at: 920323 12:27
Data File: >BK050::D6 Dilution Factor: 1.00000
Name: SSTD050
Misc: HP1,DAILY TUNE,03/23/92 BTL# 3

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.81	152.0	19770	20.00	ng/uL	95
2)	2-Fluorophenol	9.36	112.0	55527	55.99	ng/uL	96
3)	Phenol-d6	12.09	99.0	78521	56.74	ng/uL	91
4)	Phenol	12.13	94.0	97995	60.54	ng/uL	76
5)	bis(2-Chloroethyl)ether	12.24	93.0	86028	64.58	ng/uL	82
6)	2-Chlorophenol	12.31	128.0	78760	61.31	ng/uL	97
7)	1,3-Dichlorobenzene	12.71	146.0	85105	61.38	ng/uL	96
8)	1,4-Dichlorobenzene	12.71	146.0	85105	61.37	ng/uL	96
9)	1,2-Dichlorobenzene	12.87	146.0	87638	61.01	ng/uL	95
10)	2-Methylphenol	13.84	108.0	73074	60.51	ng/uL	90
11)	2,2'-oxybis(1-Chloropropane)	13.87	45.0	143255	59.79	ng/uL	99
12)	4-Methylphenol	13.84	108.0	73074	60.50	ng/uL	61
13)	N-Nitroso-di-n-propylamine	14.34	70.0	76809	59.67	ng/uL	92
14)	Hexachloroethane	14.33	117.0	30731	57.28	ng/uL	98
15)	*d8-Naphthalene	16.70	136.0	78479	20.00	ng/uL	87
16)	Nitrobenzene-d5	14.57	82.0	73335	56.22	ng/uL	90
17)	Nitrobenzene	14.63	77.0	94321	62.14	ng/uL	93
18)	Isophorone	15.44	82.0	208719	60.96	ng/uL	89
19)	2-Nitrophenol	15.61	139.0	49198	61.20	ng/uL	97
20)	2,4-Dimethylphenol	15.91	107.0	83887	60.77	ng/uL	94
21)	bis(2-Chloroethoxy)methane	16.18	93.0	108006	60.05	ng/uL	95
22)	2,4-Dichlorophenol	16.39	162.0	72701	59.40	ng/uL	90
23)	1,2,4-Trichlorobenzene	16.60	180.0	76908	59.88	ng/uL	95
24)	Naphthalene	16.77	128.0	235945	59.73	ng/uL	98
25)	4-Chloroaniline	17.04	127.0	84798	52.87	ng/uL	98
26)	Hexachlorobutadiene	17.42	225.0	42692	58.46	ng/uL	95
27)	4-Chloro-3-methylphenol	18.68	107.0	85057	60.83	ng/uL	93
28)	2-Methylnaphthalene	18.96	142.0	154688	60.56	ng/uL	88
29)	*d10-Acenaphthene	22.31	164.0	51241	20.00	ng/uL	89
30)	Hexachlorocyclopentadiene	19.72	237.0	40918	59.95	ng/uL	98
31)	2,4,6-Trichlorophenol	19.98	196.0	56431	65.66	ng/uL	93
32)	2,4,5-Trichlorophenol	20.11	196.0	108787	121.91	ng/uL	95
33)	2-Chloronaphthalene	20.49	162.0	159049	61.43	ng/uL	97
34)	2-Fluorobiphenyl	20.25	172.0	152394	55.16	ng/uL	95
35)	2-Nitroaniline	20.99	65.0	124676	30.21	ng/uL	86
36)	Dimethylphthalate	21.76	163.0	215922	60.94	ng/uL	78
37)	Acenaphthylene	21.87	152.0	277004	61.51	ng/uL	92
38)	2,6-Dinitrotoluene	21.92	165.0	54734	62.54	ng/uL	96
39)	3-Nitroaniline	22.34	138.0	64858	88.36	ng/uL	96
40)	Acenaphthene	22.44	153.0	164865	60.28	ng/uL	94

QUANT REPORT pg. 2

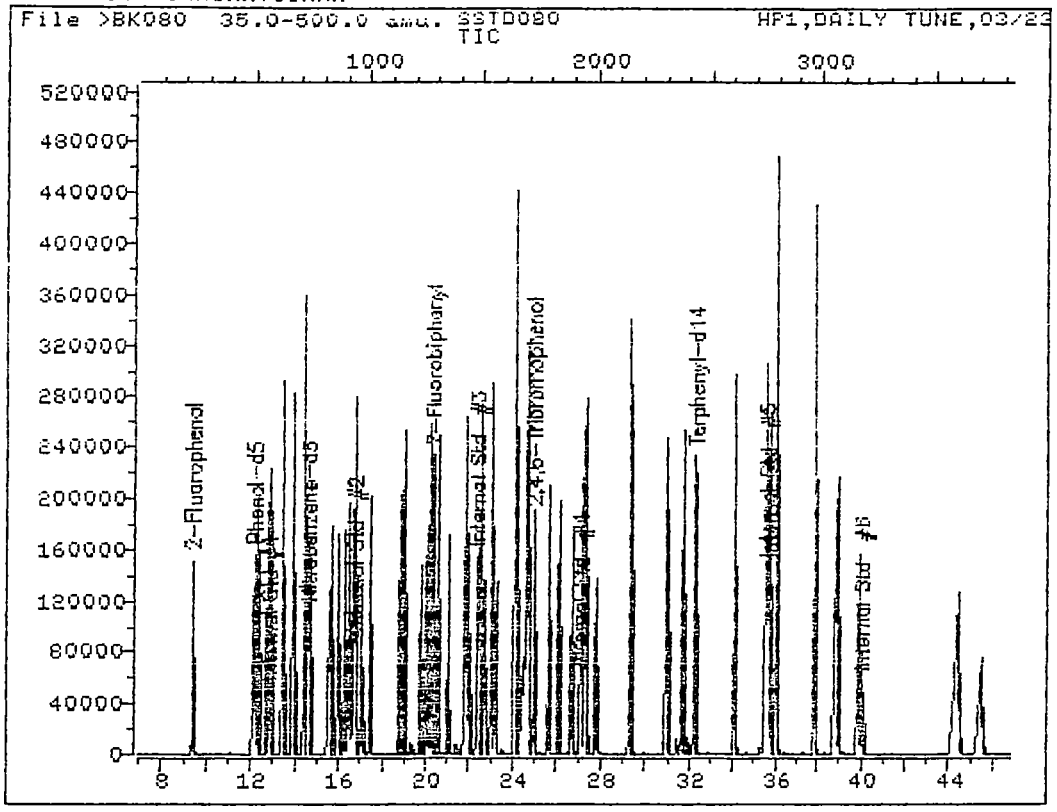
Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 13:16
Output File: ^BK050::D2 Injected at: 920323 12:27
Data File: >BK050::D6 Dilution Factor: 1.00000
Name: SSTD050
Misc: HP1,DAILY TUNE,03/23/92 BTL# 3

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	22.65	184.0	58067	373.40	ng/uL	92
42)	4-Nitrophenol	22.99	109.0	43617	131.62	ng/uL	84
43)	Dibenzofuran	22.95	168.0	231431	62.50	ng/uL	84
44)	2,4-Dinitrotoluene	23.15	165.0	75845	63.90	ng/uL	93
45)	Diethylphthalate	24.05	149.0	214601	59.63	ng/uL	93
46)	4-Chlorophenyl-phenylether	24.11	204.0	94640	59.50	ng/uL	91
47)	Fluorene	24.05	166.0	180974	57.75	ng/uL	98
48)	4-Nitroaniline	24.34	138.0	56027	146.51	ng/uL	88
49)	2,4,6-Tribromophenol	24.89	329.7	66311	113.14	ng/uL	100
50)	*d10-Phenanthrene	27.01	188.0	90558	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	24.50	198.0	85219	158.26	ng/uL	92
52)	N-Nitrosodiphenylamine	24.56	169.0	119379	60.42	ng/uL	96
53)	4-Bromophenyl-phenylether	25.64	248.0	60458	61.30	ng/uL	86
54)	Hexachlorobenzene	26.08	284.0	74246	60.72	ng/uL	91
55)	Pentachlorophenol	26.67	266.0	84493	143.00	ng/uL	99
56)	Phenanthrene	27.10	178.0	292267	62.62	ng/uL	99
57)	Anthracene	27.24	178.0	290150	60.47	ng/uL	97
58)	Di-n-butylphthalate	29.25	149.0	411699	61.20	ng/uL	96
59)	Fluoranthene	30.91	202.0	315829	59.40	ng/uL	90
60)	*d12-Chrysene	35.53	240.0	90404	20.00	ng/uL	98
61)	Pyrene	31.61	202.0	324289	62.84	ng/uL	97
62)	Terphenyl-d14	32.23	244.0	194699	56.09	ng/uL	84
63)	Butylbenzylphthalate	33.99	149.0	180117	64.09	ng/uL	91
64)	3,3'-Dichlorobenzidine	35.49	252.0	49442	58.95	ng/uL	99
65)	Benzo(a)anthracene	35.47	228.0	313437	62.06	ng/uL	95
66)	Chrysene	35.64	228.0	296587	61.68	ng/uL	92
67)	Bis(2-Ethylhexyl)phthalate	35.95	149.0	266593	62.58	ng/uL	90
68)	*d12-Perylene	39.99	264.0	95827	20.00	ng/uL	93
69)	Di-n-octylphthalate	37.81	149.0	487528	70.72	ng/uL	85
70)	Benzo(b)fluoranthene	38.84	252.0	360577M	73.45	ng/uL	90
71)	Benzo(k)fluoranthene	38.90	252.0	235072M	49.56	ng/uL	90
72)	Benzo(a)pyrene	39.84	252.0	279813	63.14	ng/uL	94
73)	Indeno(1,2,3-cd)pyrene	44.18	276.0	255640	55.25	ng/uL	92
74)	Dibenz(a,h)anthracene	44.28	278.0	211726	55.16	ng/uL	96
75)	Benzo(g,h,i)perylene	45.41	276.0	220445	56.18	ng/uL	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BK080::D6 Quant Output File: ^BK080::D2
Name: SSTD080
Misc: HP1,DAILY TUNE,03/23/92 BTL# 5

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

Operator ID: HP1B
Quant Time: 920323 15:12
Injected at: 920323 14:22

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 15:12
Output File: ^BK080::D2 Injected at: 920323 14:22
Data File: >BK080::D6 Dilution Factor: 1.00000
Name: SSTD080
Misc: HP1,DAILY TUNE,03/23/92 BTL# 5

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.82	152.0	23291	20.00	ng/uL	87
2)	2-Fluorophenol	9.38	112.0	103835	88.88	ng/uL	96
3)	Phenol-d6	12.13	99.0	144844	88.85	ng/uL	93
4)	Phenol	12.17	94.0	163641	85.82	ng/uL	76
5)	bis(2-Chloroethyl)ether	12.28	93.0	142575	90.85	ng/uL	74
6)	2-Chlorophenol	12.33	128.0	132831	87.77	ng/uL	97
7)	1,3-Dichlorobenzene	12.72	146.0	140324	85.91	ng/uL	97
8)	1,4-Dichlorobenzene	12.72	146.0	140324	85.89	ng/uL	97
9)	1,2-Dichlorobenzene	12.88	146.0	146176	86.38	ng/uL	96
10)	2-Methylphenol	13.86	108.0	119874	84.26	ng/uL	92
11)	2,2'-oxybis(1-Chloropropane)	13.88	45.0	243816	86.38	ng/uL	98
12)	4-Methylphenol	13.86	108.0	119874	84.25	ng/uL	61
13)	N-Nitroso-di-n-propylamine	14.42	70.0	131801	86.91	ng/uL	94
14)	Hexachloroethane	14.34	117.0	48508	76.74	ng/uL	97
15)	*d8-Naphthalene	16.72	136.0	92678	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.60	82.0	131879	85.61	ng/uL	90
17)	Nitrobenzene	14.66	77.0	158911	88.65	ng/uL	93
18)	Isophorone	15.55	82.0	346346M	85.66	ng/uL	88
19)	2-Nitrophenol	15.63	139.0	84766	89.29	ng/uL	96
20)	2,4-Dimethylphenol	15.95	107.0	143306	87.91	ng/uL	96
21)	bis(2-Chloroethoxy)methane	16.21	93.0	180273	84.88	ng/uL	96
22)	2,4-Dichlorophenol	16.42	162.0	121440	84.02	ng/uL	92
23)	1,2,4-Trichlorobenzene	16.63	180.0	128033	84.41	ng/uL	95
24)	Naphthalene	16.80	128.0	389381	83.46	ng/uL	97
25)	4-Chloroaniline	17.08	127.0	148314	78.31	ng/uL	98
26)	Hexachlorobutadiene	17.43	225.0	70507	81.76	ng/uL	94
27)	4-Chloro-3-methylphenol	18.71	107.0	139354	84.39	ng/uL	92
28)	2-Methylnaphthalene	18.99	142.0	249609	82.74	ng/uL	90
29)	*d10-Acenaphthene	22.33	164.0	59770	20.00	ng/uL	87
30)	Hexachlorocyclopentadiene	19.74	237.0	68992	86.66	ng/uL	98
31)	2,4,6-Trichlorophenol	20.01	196.0	91546	91.32	ng/uL	91
32)	2,4,5-Trichlorophenol	20.13	196.0	142553	136.95	ng/uL	95
33)	2-Chloronaphthalene	20.52	162.0	262178	86.81	ng/uL	98
34)	2-Fluorobiphenyl	20.28	172.0	257306	79.84	ng/uL	95
35)	2-Nitroaniline	21.02	65.0	162938	33.85	ng/uL	91
36)	Dimethylphthalate	21.80	163.0	340711	82.43	ng/uL	80
37)	Acenaphthylene	21.85	152.0	437713	83.33	ng/uL	93
38)	2,6-Dinitrotoluene	21.95	165.0	90923	89.06	ng/uL	94
39)	3-Nitroaniline	22.37	138.0	103052	120.36	ng/uL	96
40)	Acenaphthene	22.46	153.0	264882	83.03	ng/uL	95

QUANT REPORT pg. 2

Operator ID: HP1B Quant Rev: 6 Quant Time: 920323 15:12
Output File: ^BK080::D2 Injected at: 920323 14:22
Data File: >BK080::D6 Dilution Factor: 1.00000
Name: SSTD080
Misc: HP1,DAILY TUNE,03/23/92 BTL# 5

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920318 07:23

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	22.69	184.0	83160	458.45	ng/uL	94
42)	4-Nitrophenol	23.04	109.0	58230	150.64	ng/uL	80
43)	Dibenzofuran	22.98	168.0	376001	87.05	ng/uL	90
44)	2,4-Dinitrotoluene	23.19	165.0	125063	90.33	ng/uL	92
45)	Diethylphthalate	24.10	149.0	323416	77.04	ng/uL	93
46)	4-Chlorophenyl-phenylether	24.14	204.0	145923	78.65	ng/uL	92
47)	Fluorene	24.07	166.0	279684	76.51	ng/uL	98
48)	4-Nitroaniline	24.44	138.0	94772	212.46	ng/uL	87
49)	2,4,6-Tribromophenol	24.92	329.7	87151	127.48	ng/uL	100
50)	*d10-Phenanthrene	27.03	188.0	104328	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	24.57	198.0	109084	175.84	ng/uL	88
52)	N-Nitrosodiphenylamine	24.61	169.0	192862	84.72	ng/uL	96
53)	4-Bromophenyl-phenylether	25.67	248.0	96169	84.64	ng/uL	84
54)	Hexachlorobenzene	26.10	284.0	115696	82.14	ng/uL	94
55)	Pentachlorophenol	26.70	266.0	111416	163.67	ng/uL	98
56)	Phenanthrene	27.13	178.0	464861	86.45	ng/uL	97
57)	Anthracene	27.28	178.0	468330	84.72	ng/uL	97
58)	Di-n-butylphthalate	29.27	149.0	665486	85.86	ng/uL	95
59)	Fluoranthene	30.94	202.0	511526	83.50	ng/uL	91
60)	*d12-Chrysene	35.56	240.0	101772	20.00	ng/uL	97
61)	Pyrene	31.65	202.0	527815	90.86	ng/uL	97
62)	Terphenyl-d14	32.26	244.0	335447	85.84	ng/uL	83
63)	Butylbenzylphthalate	34.00	149.0	294669	93.14	ng/uL	91
64)	3,3'-Dichlorobenzidine	35.52	252.0	94691	100.29	ng/uL	96
65)	Benzo(a)anthracene	35.51	228.0	502229	88.33	ng/uL	95
66)	Chrysene	35.68	228.0	475345	87.81	ng/uL	91
67)	Bis(2-Ethylhexyl)phthalate	35.97	149.0	424681	88.55	ng/uL	90
68)	*d12-Perylene	40.01	264.0	104071	20.00	ng/uL	94
69)	Di-n-octylphthalate	37.84	149.0	800318	106.89	ng/uL	85
70)	Benzo(b)fluoranthene	38.89	252.0	554341M	103.97	ng/uL	90
71)	Benzo(k)fluoranthene	38.94	252.0	348495M	67.65	ng/uL	90
72)	Benzo(a)pyrene	39.88	252.0	425440	88.39	ng/uL	94
73)	Indeno(1,2,3-cd)pyrene	44.29	276.0	410888	81.76	ng/uL	87
74)	Dibenz(a,h)anthracene	44.38	278.0	338544	81.21	ng/uL	96
75)	Benzo(g,h,i)perylene	45.49	276.0	350793	82.32	ng/uL	97

* Compound is ISTD

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

Instrument ID: HP1 Calibration Date: 5/05/92 Time: 1434

Lab File ID: CA505 Init. Calib. Date(s): 03/~~24~~ 23/92 03/~~24~~ 23/92

MO 5-11-92

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.731	1.637	5.4	*
bis(2-Chloroethyl)ether		1.510	1.364	9.7	
2-Chlorophenol		1.393	1.286	7.7	
1,3-Dichlorobenzene		1.515	1.466	3.3	
1,4-Dichlorobenzene	*	1.515	1.466	3.3	*
1,2-Dichlorobenzene		1.567	1.430	8.7	
2-Methylphenol		1.295	1.231	5.0	
2,2'-oxybis(1-Chloropropane		2.561	2.459	3.9	
4-Methylphenol		1.295	1.254	3.1	
N-Nitroso-di-n-propylamine	#	1.411	1.297	8.1	#
Hexachloroethane		0.552	0.553	0.1	
Nitrobenzene		0.416	0.386	7.3	
Isophorone		0.926	0.877	5.3	
2-Nitrophenol	*	0.210	0.200	4.6	*
2,4-Dimethylphenol		0.372	0.344	7.4	
bis(2-Chloroethoxy)methane		0.482	0.445	7.8	
2,4-Dichlorophenol	*	0.319	0.294	7.7	*
1,2,4-Trichlorobenzene		0.344	0.328	4.4	
Naphthalene		1.071	0.989	7.6	
4-Chloroaniline		0.362	0.336	7.2	
Hexachlorobutadiene	*	0.193	0.190	1.8	*
4-Chloro-3-methylphenol	*	0.369	0.344	6.6	*
2-Methylnaphthalene		0.694	0.640	7.8	
Hexachlorocyclopentadiene	#	0.233	0.281	20.4	#
2,4,6-Trichlorophenol	*	0.370	0.348	5.9	*
2,4,5-Trichlorophenol		0.368	0.344	6.6	
2-Chloronaphthalene		1.088	1.013	6.8	
2-Nitroaniline		1.361	1.586	16.6	
Dimethylphthalate		1.458	1.368	6.2	
Acenaphthylene		1.870	1.738	7.1	
2,6-Dinitrotoluene		0.356	0.331	6.9	
3-Nitroaniline		0.195	0.265	36.2	
Acenaphthene	*	1.124	1.037	7.8	*
2,4-Dinitrophenol	#	0.166	0.186	12.1	#
4-Nitrophenol	#	0.145	0.147	1.9	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900

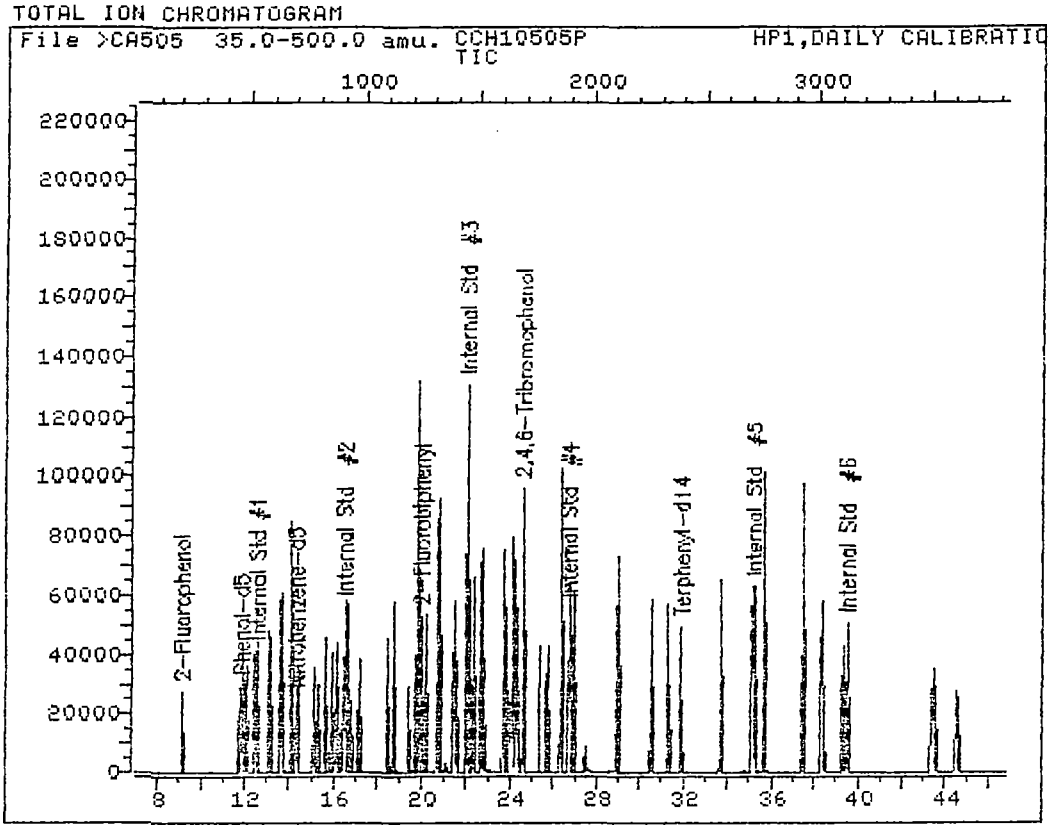
Instrument ID: HP1 Calibration Date: 5/05/92 Time: 14:34

Lab File ID: CA505 Init. Calib. Date(s): 03/~~24~~23/92 03/~~24~~23/92

MO 5-11-92

COMPOUND		RRF	RRF50	%D	
Dibenzofuran		1.579	1.498	5.1	
2,4-Dinitrotoluene		0.492	0.460	6.6	
Diethylphthalate		1.472	1.369	7.0	
4-Chlorophenyl-phenylether		0.646	0.608	5.9	
Fluorene		1.255	1.202	4.2	
4-Nitroaniline		0.152	0.171	12.8	
4,6-Dinitro-2-methylphenol		0.157	0.155	1.2	
N-Nitrosodiphenylamine (1)	*	0.455	0.458	0.7	*
4-Bromophenyl-phenylether		0.232	0.223	4.0	
Hexachlorobenzene		0.288	0.275	4.4	
Pentachlorophenol	*	0.161	0.164	1.7	*
Phenanthrene		1.135	1.053	7.3	
Anthracene		1.137	1.036	8.9	
Di-n-butylphthalate		1.576	1.426	9.5	
Fluoranthene	*	1.216	1.114	8.4	*
Pyrene		1.265	1.136	10.2	
Butylbenzylphthalate		0.687	0.616	10.3	
3,3'-Dichlorobenzidine		0.176	0.134	24.2	
Benzo(a)anthracene		1.201	1.122	6.6	
Chrysene		1.151	1.067	7.2	
bis(2-Ethylhexyl)phthalate		1.019	0.931	8.6	
Di-n-octylphthalate	*	1.632	1.345	17.6	*
Benzo(b)fluoranthene		1.186	1.039	12.4	
Benzo(k)fluoranthene		0.961	0.898	6.5	
Benzo(a)pyrene	*	0.983	0.904	8.0	*
Indeno(1,2,3-cd)pyrene		0.940	1.083	15.2	
Dibenz(a,h)anthracene		0.773	0.888	14.9	
Benzo(g,h,i)perylene		0.798	0.952	19.3	
2-Fluorobiphenyl		1.068	1.089	1.9	
Terphenyl-d14		0.781	0.767	1.8	
Phenol-d6		1.368	1.392	1.8	
2-Fluorophenol		0.958	0.987	3.0	
2,4,6-Tribromophenol		0.225	0.231	2.7	

TOTAL ION CHROMATOGRAM



Data File: >CA505::D6 Quant Output File: ^CA505::D3
Name: CCH10505P SSTD020
Misc: HP1,DAILY CALIBRATION,05/05/92 BTL# 2

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 10:43

Operator ID: HP1B
Quant Time: 920505 15:24
Injected at: 920505 14:34

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 15:24
Output File: ^CA505::D3 Injected at: 920505 14:34
Data File: >CA505::D6 Dilution Factor: 1.00000
Name: CCH10505P SSTD020
Misc: HP1,DAILY CALIBRATION,05/05/92 BTL# 2

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 10:43

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.53	152.0	16435	20.00	ng/uL	97
2)	2-Fluorophenol	9.10	112.0	16218	19.90	ng/uL	98
3)	Phenol-d6	11.81	99.0	22882	20.01	ng/uL	90
4)	Phenol	11.85	94.0	26906	19.90	ng/uL	78
5)	bis(2-Chloroethyl)ether	11.94	93.0	22418	19.51	ng/uL	79
6)	2-Chlorophenol	12.03	128.0	21128	19.65	ng/uL	98
7)	1,3-Dichlorobenzene	12.58	146.0	24089	19.70	ng/uL	97
8)	1,4-Dichlorobenzene	12.58	146.0	24089	19.70	ng/uL	97
9)	1,2-Dichlorobenzene	13.11	146.0	23497	19.49	ng/uL	97
10)	2-Methylphenol	13.55	108.0	20228	19.94	ng/uL	89
11)	2,2'-oxybis(1-Chloropropane)	13.57	45.0	40424	20.11	ng/uL	96
12)	4-Methylphenol	14.00	108.0	20618	19.74	ng/uL	96
13)	N-Nitroso-di-n-propylamine	13.99	70.0	21318	19.62	ng/uL	91
14)	Hexachloroethane	14.04	117.0	9081	19.69	ng/uL	94
15)	*d8-Naphthalene	16.40	136.0	66303	20.00	ng/uL	89
16)	Nitrobenzene-d5	14.25	82.0	21224	20.19	ng/uL	91
17)	Nitrobenzene	14.30	77.0	25576	19.97	ng/uL	92
18)	Isophorone	15.09	82.0	58120	20.22	ng/uL	89
19)	2-Nitrophenol	15.30	139.0	13276	20.75	ng/uL	96
20)	2,4-Dimethylphenol	15.60	107.0	22838	19.91	ng/uL	93
21)	bis(2-Chloroethoxy)methane	15.86	93.0	29495	20.27	ng/uL	97
22)	2,4-Dichlorophenol	16.07	162.0	19522	20.16	ng/uL	92
23)	1,2,4-Trichlorobenzene	16.31	180.0	21768	20.13	ng/uL	95
24)	Naphthalene	16.45	128.0	65605	20.00	ng/uL	98
25)	4-Chloroaniline	16.74	127.0	22285	20.81	ng/uL	98
26)	Hexachlorobutadiene	17.12	225.0	12566	19.92	ng/uL	96
27)	4-Chloro-3-methylphenol	18.40	107.0	22827	20.10	ng/uL	92
28)	2-Methylnaphthalene	18.64	142.0	42447	19.79	ng/uL	89
29)	*d10-Acenaphthene	22.00	164.0	43209	20.00	ng/uL	87
30)	Hexachlorocyclopentadiene	19.42	237.0	12129	19.77	ng/uL	98
31)	2,4,6-Trichlorophenol	19.67	196.0	15058	19.45	ng/uL	90
32)	2,4,5-Trichlorophenol	19.80	196.0	59469	77.85	ng/uL	94
33)	2-Chloronaphthalene	20.16	162.0	43793	19.28	ng/uL	98
34)	2-Fluorobiphenyl	19.94	172.0	47033	19.57	ng/uL	95
35)	2-Nitroaniline	20.67	65.0	68552	19.44	ng/uL	89
36)	Dimethylphthalate	21.42	163.0	59093	19.92	ng/uL	80
37)	Acenaphthylene	21.48	152.0	75116	19.68	ng/uL	93
38)	2,6-Dinitrotoluene	21.57	165.0	14311	19.65	ng/uL	94
39)	3-Nitroaniline	22.00	138.0	45862	82.76	ng/uL	95
40)	Acenaphthene	22.11	153.0	44798	19.85	ng/uL	96

QUANT REPORT pg. 2

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 15:24
Output File: ^CA505::D3 Injected at: 920505 14:34
Data File: >CA505::D6 Dilution Factor: 1.00000
Name: CCH10505P
Misc: HP1,DAILY CALIBRATION,05/05/92 BTL# 2

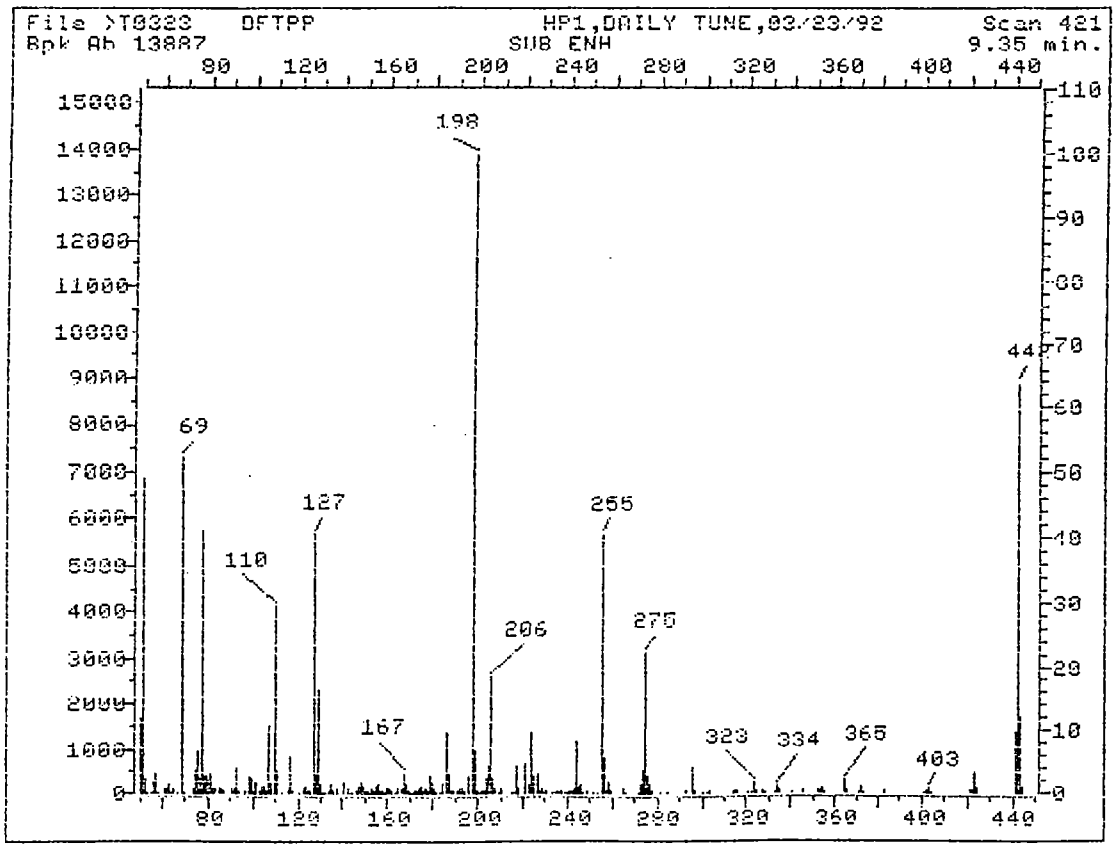
ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 10:43

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	22.31	184.0	32084	81.69	ng/uL	90
42)	4-Nitrophenol	22.68	109.0	25478	80.66	ng/uL	82
43)	Dibenzofuran	22.62	168.0	64726	19.99	ng/uL	89
44)	2,4-Dinitrotoluene	22.79	165.0	19862	19.67	ng/uL	89
45)	Diethylphthalate	23.75	149.0	59158	19.36	ng/uL	94
46)	4-Chlorophenyl-phenylether	23.78	204.0	26272	19.50	ng/uL	91
47)	Fluorene	23.71	166.0	51937	19.79	ng/uL	96
48)	4-Nitroaniline	23.99	138.0	29606	102.34	ng/uL	90
49)	2,4,6-Tribromophenol	24.55	329.7	39872	78.27	ng/uL	100
50)	*d10-Phenanthrene	26.67	188.0	73344	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	24.12	198.0	45576	80.05	ng/uL	92
52)	N-Nitrosodiphenylamine	24.22	169.0	33583	20.01	ng/uL	96
53)	4-Bromophenyl-phenylether	25.31	248.0	16363	20.43	ng/uL	86
54)	Hexachlorobenzene	25.72	284.0	20187	20.03	ng/uL	92
55)	Pentachlorophenol	26.33	266.0	48057	81.71	ng/uL	97
56)	Phenanthrene	26.74	178.0	77204	20.29	ng/uL	99
57)	Anthracene	26.88	178.0	76008	19.64	ng/uL	99
58)	Di-n-butylphthalate	28.90	149.0	104621	19.94	ng/uL	97
59)	Fluoranthene	30.53	202.0	81718	19.93	ng/uL	91
60)	*d12-Chrysene	35.12	240.0	74265	20.00	ng/uL	94
61)	Pyrene	31.22	202.0	84374	19.69	ng/uL	98
62)	Terphenyl-d14	31.87	244.0	56941	19.99	ng/uL	84
63)	Butylbenzylphthalate	33.62	149.0	45757	19.77	ng/uL	90
64)	3,3'-Dichlorobenzidine	35.09	252.0	9925	20.35	ng/uL	94
65)	Benzo(a)anthracene	35.06	228.0	83288	19.67	ng/uL	94
66)	Chrysene	35.21	228.0	79260	20.02	ng/uL	92
67)	Bis(2-Ethylhexyl)phthalate	35.58	149.0	69126	19.86	ng/uL	88
68)	*d12-Perylene	39.49	264.0	91613	20.00	ng/uL	94
69)	Di-n-octylphthalate	37.42	149.0	123247	19.89	ng/uL	86
70)	Benzo(b)fluoranthene	38.32	252.0	95170	21.33	ng/uL	91
71)	Benzo(k)fluoranthene	38.41	252.0	82286	18.58	ng/uL	92
72)	Benzo(a)pyrene	39.29	252.0	82857	20.09	ng/uL	94
73)	Indeno(1,2,3-cd)pyrene	43.38	276.0	99211	20.21	ng/uL	95
74)	Dibenz(a,h)anthracene	43.46	278.0	81353	20.45	ng/uL	95
75)	Benzo(g,h,i)perylene	44.49	276.0	87191	20.33	ng/uL	95

* Compound is ISTD

Date and Time of inection: 3/23/92 11:07

Tune data file name: >T0323::D6



Date and Time of inection: 3/23/92 11:07

Tune data file name: >T0323::D6

>T0323 DFTPP HP1,DAILY TUNE,03/23/92
421 SUB NRM ENH

File: >T0323 Scan #: 421 Retn. time: 9.35

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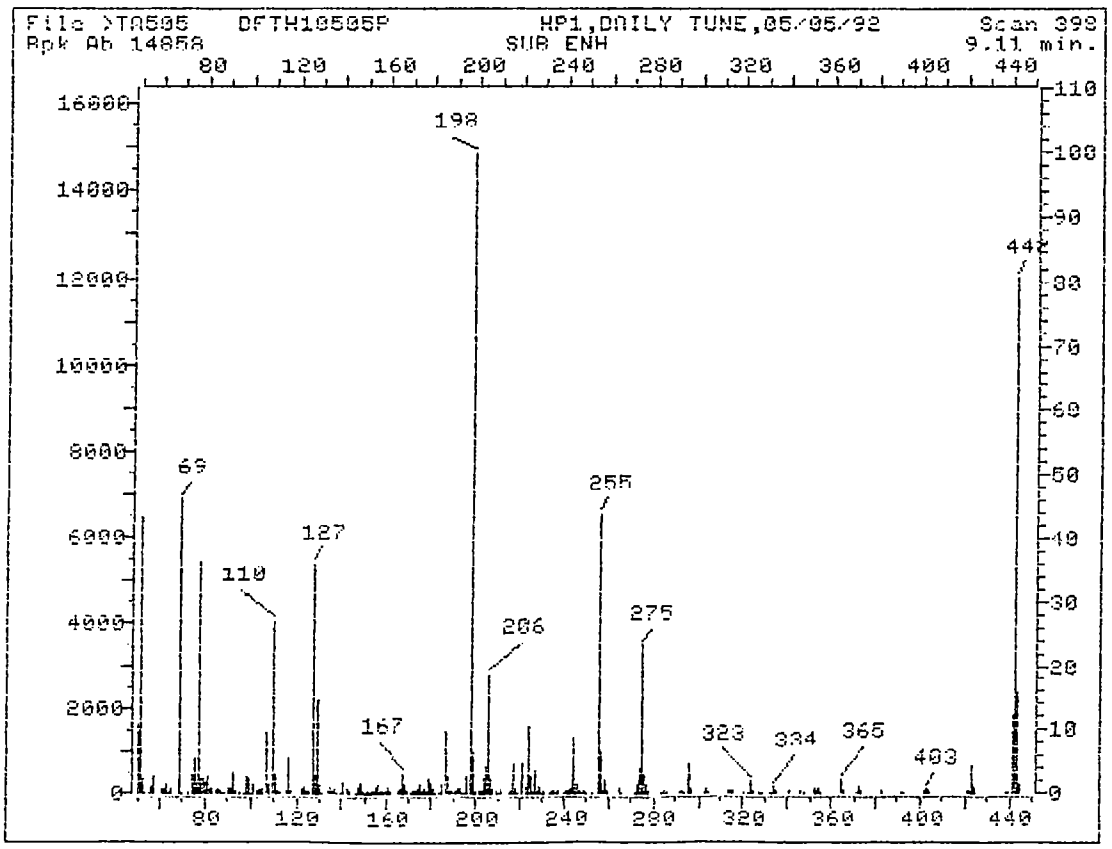
50.00	12.033	109.95	29.546	163.90	.103	216.10	.178	284.05	.048
51.10	49.286	110.95	3.651	164.90	.636	216.90	4.337	284.95	.180
52.00	2.448	112.95	.050	166.00	.600	218.00	.564	293.05	.350
53.00	.120	115.25	.038	167.00	3.183	221.00	4.863	295.95	4.083
54.95	.120	116.05	.629	168.00	1.546	223.00	1.239	296.95	.535
55.95	1.553	116.95	5.974	169.00	.334	224.00	9.714	300.85	.058
56.95	3.394	117.95	.449	169.90	.050	225.00	2.571	302.25	.070
57.85	.127	119.95	.091	171.00	.125	227.00	3.444	302.95	.509
60.95	.634	122.05	.713	171.80	.298	228.00	.504	314.05	.180
61.95	.583	122.95	1.063	173.00	.425	228.90	.828	314.95	.504
62.95	1.527	123.95	.514	174.00	.754	229.90	.060	315.95	.266
63.95	.192	124.95	.535	175.00	1.171	231.00	.346	320.95	.134
65.05	.845	126.95	40.599	175.90	.439	233.10	.041	322.15	.094
67.05	.041	127.95	3.200	176.90	.732	234.00	.074	323.05	1.632
68.95	52.413	128.95	16.329	178.00	.247	235.00	.252	324.05	.326
70.05	.182	130.05	1.387	178.90	2.609	236.00	.084	326.95	.235
73.05	.571	131.05	.185	180.00	1.690	237.00	.209	327.95	.149
73.95	3.694	131.95	.070	181.00	.816	238.80	.043	332.95	.142
74.95	6.704	134.05	.430	182.10	.118	240.00	.070	334.05	.946
76.05	2.225	135.05	1.275	184.00	.139	241.00	.221	335.05	.298
76.95	41.178	136.05	.456	185.00	1.275	241.90	.497	341.05	.180
78.05	2.676	137.15	.622	186.00	9.928	243.00	.581	345.95	.259
78.95	2.619	140.15	.149	187.00	2.974	244.00	8.560	352.05	.494
79.95	2.059	140.95	1.735	188.00	.324	245.00	1.104	353.05	.334
80.95	2.902	141.95	.713	189.00	.538	246.00	1.335	354.05	.569
81.95	.739	142.85	.398	191.00	.209	247.10	.151	355.15	.178
82.95	.730	143.05	.127	191.90	.761	249.10	.353	364.95	1.911
85.05	.617	144.05	.108	193.00	.823	252.00	.046	365.95	.240
85.95	.708	145.95	.329	194.00	.216	253.10	.132	371.00	.137
86.95	.367	146.95	1.006	196.00	2.679	255.00	40.373	372.00	.929
90.95	.660	147.95	1.666	197.90	100.000	256.00	5.732	372.90	.180
91.95	.715	149.05	1.174	198.90	6.675	257.00	.437	382.90	.223
92.95	3.961	150.05	.240	200.00	.331	258.00	1.827	400.80	.065
93.95	.324	151.15	.262	200.70	.067	259.00	.286	402.10	.324
96.05	.264	151.85	.134	201.40	.475	264.95	.696	403.00	.540
97.95	2.799	152.95	.677	203.00	.456	266.05	.062	403.90	.190
98.95	2.408	154.05	.533	204.00	2.304	271.95	.084	421.00	.432
99.95	.242	155.05	1.066	205.00	4.426	272.95	1.356	422.00	.470
101.05	1.555	156.05	1.438	206.00	18.415	273.95	3.812	423.00	3.519
102.95	.490	156.95	.398	207.00	2.367	274.95	22.160	424.00	.677
103.95	.931	157.95	.410	208.00	.590	275.95	2.808	441.10	9.738
104.95	.891	159.00	.180	209.00	.144	276.95	1.455	442.10	63.981
106.05	.329	160.00	.672	210.10	.324	277.85	.216	443.10	12.098
106.95	10.727	160.90	.773	210.90	.713	280.85	.115	444.00	1.039
107.95	1.608	161.80	.262	215.00	.113				

Date and Time of inection: 5/05/92 14:12

Tune data file name: >TA505::D6



Date and Time of inection: 5/05/92 14:12

Tune data file name: >TA505::D6

>TA505 DFTH10505P HP1,DAILY TUNE,05/05/92
398 SUB NRM ENH

File: >TA505 Scan #: 398 Retn. time: 9.11

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50.00	10.726	111.95	.366	171.90	.307	225.00	2.602	295.95	4.579
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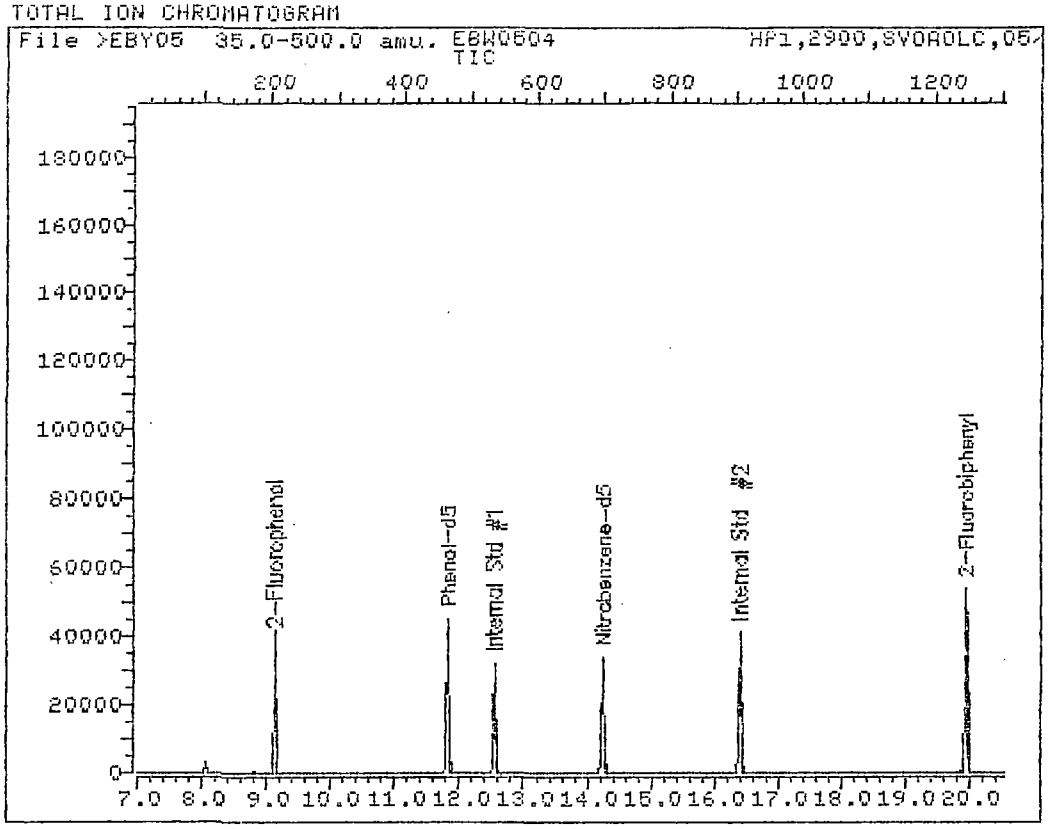
52.10	2.297	116.05	.520	174.00	.673	227.00	3.607	301.95	.063
53.00	.121	116.95	5.728	175.00	1.243	228.00	.532	302.95	.644
55.15	.128	117.95	.451	175.90	.458	229.00	.888	304.05	.155
55.95	1.176	121.95	.608	176.90	.621	229.90	.101	313.95	.236
56.95	2.887	122.95	1.034	178.00	.274	231.00	.388	315.05	.529
60.95	.541	124.05	.352	178.90	2.501	233.00	.056	315.95	.314
61.95	.545	124.95	.424	180.00	1.734	234.00	.229	320.85	.141
62.95	1.469	126.95	36.057	180.90	.868	235.00	.305	322.05	.153
63.95	.177	127.95	2.961	182.00	.096	236.00	.130	323.05	1.920
65.05	.660	128.95	14.789	183.90	.195	237.00	.323	323.95	.348
68.95	46.285	130.05	1.238	185.00	1.216	240.00	.105	326.95	.186
69.85	.092	130.95	.173	186.00	9.739	240.90	.256	327.95	.103
72.95	.112	134.05	.386	187.00	2.822	242.00	.514	332.05	.101
73.95	3.166	134.95	1.205	188.00	.343	243.10	.727	332.95	.191
74.95	5.743	135.95	.494	189.00	.534	244.00	8.871	334.05	.956
76.05	2.147	137.05	.624	190.00	.079	245.10	1.229	334.95	.334
77.05	36.310	137.75	.148	191.10	.298	246.00	1.333	341.05	.254
78.05	2.250	139.95	.117	191.90	.770	247.00	.285	345.95	.319
79.05	2.394	140.95	1.770	193.00	.828	248.00	.029	346.95	.031
79.95	1.786	142.05	.635	194.00	.099	249.00	.328	352.05	.574
80.95	2.690	142.95	.408	194.90	.119	249.90	.031	353.05	.444
82.05	.682	145.85	.184	196.00	2.676	252.10	.027	354.05	.675
82.95	.608	146.15	.090	197.90	100.000	253.00	.191	355.05	.135
84.95	.525	147.05	.891	198.90	6.448	255.00	43.716	364.95	2.183
85.95	.635	147.95	1.591	199.90	.397	256.00	6.558	365.85	.343
87.05	.296	148.85	.377	201.50	.390	257.00	.498	370.90	.159
88.05	.074	149.95	.036	202.90	.476	258.00	2.082	372.00	1.041
89.15	.034	151.05	.229	204.00	2.416	259.00	.359	373.00	.287
90.95	.590	151.95	.153	205.00	4.417	264.95	.832	383.00	.307
91.95	.565	153.05	.532	206.00	18.663	265.95	.114	391.80	.063
92.95	3.545	153.95	.413	207.00	2.526	272.05	.101	392.00	.031
93.95	.283	155.05	.947	207.90	.586	272.95	1.393	402.00	.437
95.95	.148	156.05	1.467	209.00	.166	273.95	4.025	403.00	.568
97.05	.040	157.15	.245	209.80	.222	274.95	23.090	404.10	.251
97.95	2.571	157.95	.359	210.00	.110	275.95	2.950	421.00	.503
98.95	2.405	158.90	.206	211.00	.722	276.95	1.514	422.10	.509
99.85	.202	159.90	.520	214.90	.171	277.95	.233	423.00	4.294
100.95	1.303	160.90	.906	216.00	.303	283.05	.047	424.00	.927
103.05	.467	161.90	.258	216.90	4.736	283.95	.052	438.60	.056
103.95	.817	165.00	.644	217.90	.574	285.05	.254	439.20	.034
105.05	.846	165.90	.565	219.00	.036	285.85	.027	441.10	12.220
106.95	9.916	167.00	3.161	221.00	4.678	291.85	.061	442.10	80.771
107.95	1.458	168.00	1.476	223.00	1.196	292.95	.361	443.10	15.765

TOTAL ION CHROMATOGRAM



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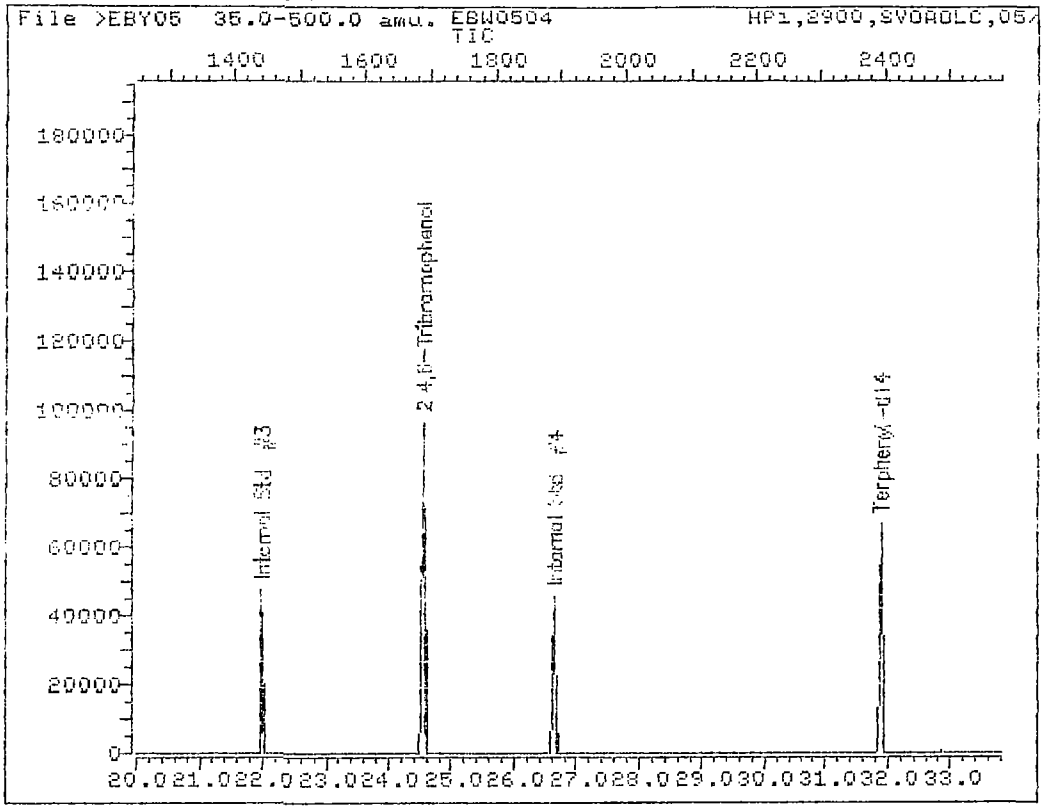
Name: EBW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 3

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 16:23
Injected at: 920505 15:34

TIC page 1 of 3

TOTAL ION CHROMATOGRAM



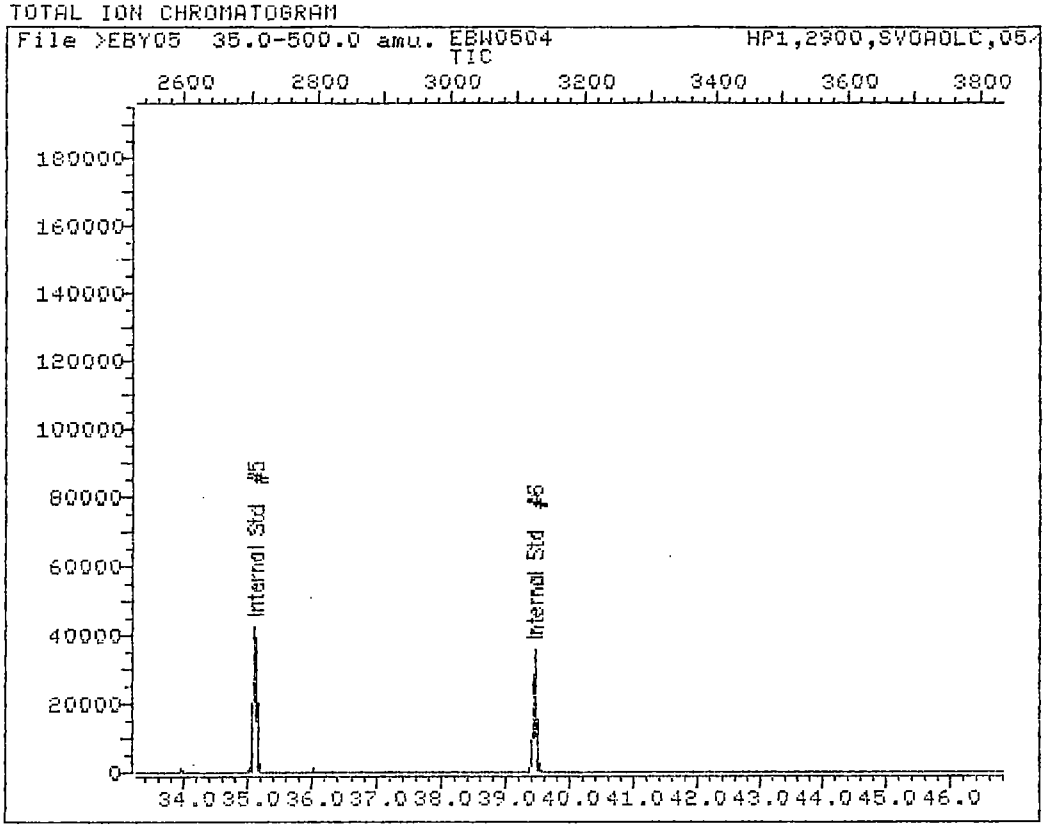
Data File: >EBY05::D6 Quant Output File: ^EBY05::D3
Name: EBW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 3

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 16:23
Injected at: 920505 15:34

TIC page 2 of 3

TOTAL ION CHROMATOGRAM



Data File: >EBY05::D6 Quant Output File: ^EBY05::D3
Name: EBW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 3

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920505 16:23
Injected at: 920505 15:34

TIC page 3 of 3

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 16:23
Output File: ^EBY05::D3 Injected at: 920505 15:34
Data File: >EBY05::D6 Dilution Factor: 1.00000
Name: EBW0504
Misc: HP1,2900,SVOADLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 3

ID File: IOPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.52	152.0	11973	20.00	ng/uL	98
2)	2-Fluorophenol	9.10	112.0	23420	39.64	ng/uL	98
3)	Phenol-d6	11.81	99.0	31634	37.95	ng/uL	93
4)	Phenol	0.00	94.0	0	0.00	ng/uL	
5)	bis(2-Chloroethyl)ether	0.00	93.0	0	0.00	ng/uL	
6)	2-Chlorophenol	0.00	128.0	0	0.00	ng/uL	
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	0.00	70.0	0	0.00	ng/uL	
14)	Hexachloroethane	0.00	117.0	0	0.00	ng/uL	
15)	*d8-Naphthalene	16.38	136.0	48343	20.00	ng/uL	88
16)	Nitrobenzene-d5	14.24	82.0	25555	33.03	ng/uL	90
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	0.00	82.0	0	0.00	ng/uL	
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	0.00	180.0	0	0.00	ng/uL	
24)	Naphthalene	0.00	128.0	0	0.00	ng/uL	
25)	4-Chloroaniline	0.00	127.0	0	0.00	ng/uL	
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	31737	20.00	ng/uL	89
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
32)	2,4,5-Trichlorophenol	0.00	196.0	0	0.00	ng/uL	
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.92	172.0	46928	27.17	ng/uL	95
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

Operator ID: HP1B Quant Rev: 6 Quant Time: 920505 16:23
Output File: ^EBY05::D3 Injected at: 920505 15:34
Data File: >EBY05::D6 Dilution Factor: 1.00000
Name: ERW0504
Misc: HP1,2900,SUDAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL# 3

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
45)	Diethylphthalate	0.00	149.0	0	0.00	ng/uL	
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
49)	2,4,6-Tribromophenol	24.53	329.7	40390	110.33	ng/uL	100
50)	*d10-Phenanthrene	26.63	188.0	57956	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	0.00	169.0	0	0.00	ng/uL	
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	0.00	284.0	0	0.00	ng/uL	
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.10	240.0	57025	20.00	ng/uL	94
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
62)	Terphenyl-d14	31.87	244.0	78011	35.68	ng/uL	83
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.45	264.0	66428	20.00	ng/uL	92
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	0.00	252.0	0	0.00	ng/uL	
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: LCSW0504
Sample wt/vol: 1000 (g/ml) ML Lab File ID: LCSY5
Level: (low/med) LOW Date Received:
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	32	X
111-44-4	bis(2-Chloroethyl)ether	18	X
95-57-8	2-Chlorophenol	32	X
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	16	X
67-72-1	Hexachloroethane	9	X
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	15	X
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	13	X
91-20-3	Naphthalene	15	X
106-47-8	4-Chloroaniline	28	X
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	29	X
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	12	X
84-66-2	Diethylphthalate	17	X
7005-72-3	4-Chlorophenyl-phenyl ether	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

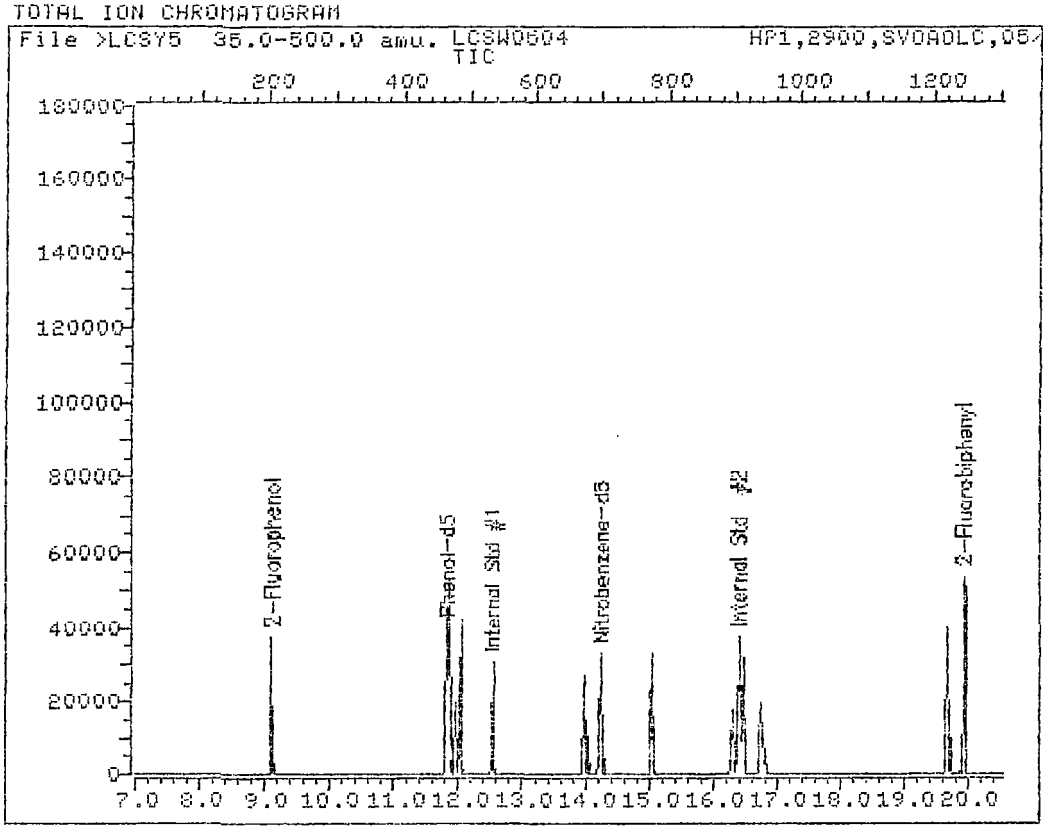
EPA SAMPLE NO.

LCSW0504

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQ SDG No.: 2900
Matrix: (soil/water) WATER Lab Sample ID: LCSW0504
Sample wt/vol: 1000 (g/ml) ML Lab File ID: LCSY5
Level: (low/med) LOW Date Received:
%Moisture: 100.00 decanted: (Y/N) N Date Extracted: 5/4/92
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 5/6/92
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) N pH: 0.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	16	X
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	17	X
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	Bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	17	X
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

TOTAL ION CHROMATOGRAM



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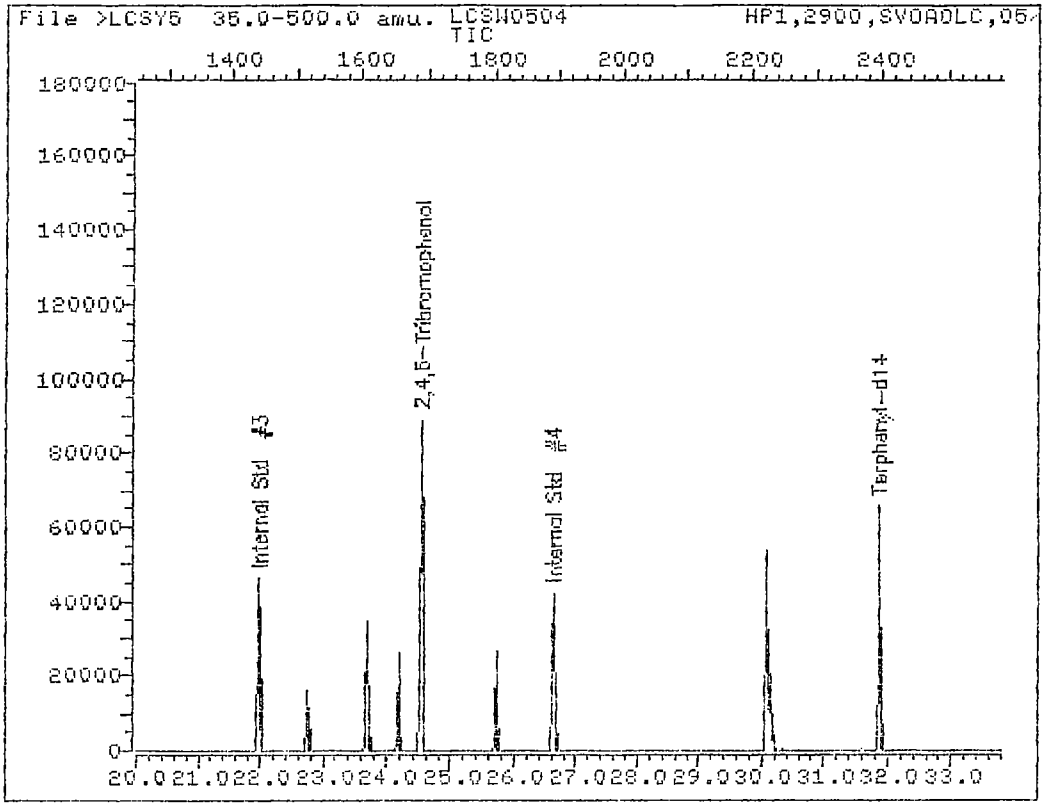
Name: LCSW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#14

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 02:59
Injected at: 920506 02:09

TIC page 1 of 3

TOTAL ION CHROMATOGRAM



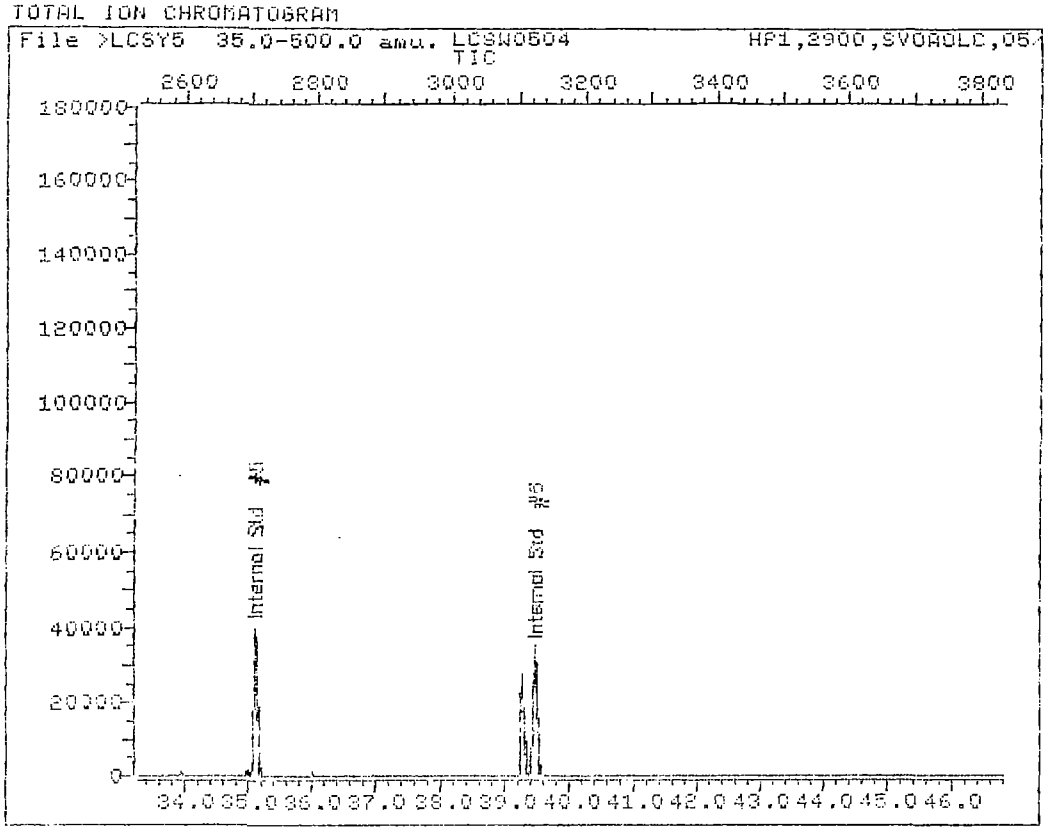
Data File: >LCSY5::D6 Quant Output File: ^LCSY5::D3
Name: LCSW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#14

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 02:59
Injected at: 920506 02:09

TIC page 2 of 3

TOTAL ION CHROMATOGRAM



Data File: >LCSY5::D6 Quant Output File: ^LCSY5::D3
Name: LCSW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#14

Id File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

Operator ID: HP1B
Quant Time: 920506 02:59
Injected at: 920506 02:09

TIC page 3 of 3

QUANT REPORT pg.1

Operator ID: HP1B Quant Rev: 6 Quant Time: 920506 02:59
Output File: ^LCSY5::D3 Injected at: 920506 02:09
Data File: >LCSY5::D6 Dilution Factor: 1.00000
Name: LCSW0504
Misc: HP1,2900,SVOANLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#14

$$\text{Cmpd Fd} = \frac{\text{Amt}}{\text{(ppm)}} \times \frac{\text{FV}}{\text{IW}}$$

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	12.51	152.0	11439	20.00	ng/uL	98
2)	2-Fluorophenol	9.10	112.0	21060	37.31	ng/uL	94
3)	Phenol-d6	11.81	99.0	30399	38.17	ng/uL	90
4)	Phenol	11.84	94.0	30013	32.05	ng/uL	77
5)	bis(2-Chloroethyl)ether	11.93	93.0	13992	17.93	ng/uL	78
6)	2-Chlorophenol	12.02	128.0	23629	32.14	ng/uL	99
7)	1,3-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
8)	1,4-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
9)	1,2-Dichlorobenzene	0.00	146.0	0	0.00	ng/uL	
10)	2-Methylphenol	0.00	108.0	0	0.00	ng/uL	
11)	2,2'-oxybis(1-Chloropropane)	0.00	45.0	0	0.00	ng/uL	
12)	4-Methylphenol	0.00	108.0	0	0.00	ng/uL	
13)	N-Nitroso-di-n-propylamine	13.97	70.0	12039	16.23	ng/uL	90
14)	Hexachloroethane	14.03	117.0	2955	9.35	ng/uL	93
15)	*d8-Naphthalene	16.38	136.0	46613	20.00	ng/uL	89
16)	Nitrobenzene-d5	14.24	82.0	24849	33.31	ng/uL	91
17)	Nitrobenzene	0.00	77.0	0	0.00	ng/uL	
18)	Isophorone	15.04	82.0	30517	14.94	ng/uL	86
19)	2-Nitrophenol	0.00	139.0	0	0.00	ng/uL	
20)	2,4-Dimethylphenol	0.00	107.0	0	0.00	ng/uL	
21)	bis(2-Chloroethoxy)methane	0.00	93.0	0	0.00	ng/uL	
22)	2,4-Dichlorophenol	0.00	162.0	0	0.00	ng/uL	
23)	1,2,4-Trichlorobenzene	16.28	180.0	10028	13.11	ng/uL	94
24)	Naphthalene	16.44	128.0	34525	14.97	ng/uL	98
25)	4-Chloroaniline	16.73	127.0	22324	28.50	ng/uL	97
26)	Hexachlorobutadiene	0.00	225.0	0	0.00	ng/uL	
27)	4-Chloro-3-methylphenol	0.00	107.0	0	0.00	ng/uL	
28)	2-Methylnaphthalene	0.00	142.0	0	0.00	ng/uL	
29)	*d10-Acenaphthene	21.98	164.0	30024	20.00	ng/uL	88
30)	Hexachlorocyclopentadiene	0.00	237.0	0	0.00	ng/uL	
31)	2,4,6-Trichlorophenol	19.66	196.0	15276	29.20	ng/uL	93
32)	2,4,5-Trichlorophenol	19.66	196.0	~~15276~~	~~29.57~~	ng/uL	88
33)	2-Chloronaphthalene	0.00	162.0	0	0.00	ng/uL	
34)	2-Fluorobiphenyl	19.92	172.0	47574	29.11	ng/uL	94
35)	2-Nitroaniline	0.00	65.0	0	0.00	ng/uL	
36)	Dimethylphthalate	0.00	163.0	0	0.00	ng/uL	
37)	Acenaphthylene	0.00	152.0	0	0.00	ng/uL	
38)	2,6-Dinitrotoluene	0.00	165.0	0	0.00	ng/uL	
39)	3-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
40)	Acenaphthene	0.00	153.0	0	0.00	ng/uL	

QUANT REPORT pg. 2

Operator ID: HP1B Quant Rev: 6 Quant Time: 920506 02:59
Output File: ^LCSY5::D3 Injected at: 920506 02:09
Data File: >LCSY5::D6 Dilution Factor: 1.00000
Name: LCSW0504
Misc: HP1,2900,SVOAOLC,05/04/92,IV1L,FV1ML,CASE 19026 BTL#14

ID File: IDPAIN::D1
Title: HP BNA Standards
Last Calibration: 920505 15:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2,4-Dinitrophenol	0.00	184.0	0	0.00	ng/uL	
42)	4-Nitrophenol	0.00	109.0	0	0.00	ng/uL	
43)	Dibenzofuran	0.00	168.0	0	0.00	ng/uL	
44)	2,4-Dinitrotoluene	22.76	165.0	8523	12.35	ng/uL	90 ✓
45)	Diethylphthalate	23.68	149.0	34596	16.83	ng/uL	95 ✓
46)	4-Chlorophenyl-phenylether	0.00	204.0	0	0.00	ng/uL	
47)	Fluorene	0.00	166.0	0	0.00	ng/uL	
48)	4-Nitroaniline	0.00	138.0	0	0.00	ng/uL	
✓ 49)	2,4,6-Tribromophenol	24.53	329.7	36469	105.31	ng/uL	100
50)	*d10-Phenanthrene	26.63	188.0	52221	20.00	ng/uL	99
51)	4,6-Dinitro-2-methylphenol	0.00	198.0	0	0.00	ng/uL	
52)	N-Nitrosodiphenylamine	24.18	169.0	19562	16.36	ng/uL	96 ✓
53)	4-Bromophenyl-phenylether	0.00	248.0	0	0.00	ng/uL	
54)	Hexachlorobenzene	25.70	284.0	11927	16.60	ng/uL	91 ✓
55)	Pentachlorophenol	0.00	266.0	0	0.00	ng/uL	
56)	Phenanthrene	0.00	178.0	0	0.00	ng/uL	
57)	Anthracene	0.00	178.0	0	0.00	ng/uL	
58)	Di-n-butylphthalate	0.00	149.0	0	0.00	ng/uL	
59)	Fluoranthene	0.00	202.0	0	0.00	ng/uL	
60)	*d12-Chrysene	35.09	240.0	53079	20.00	ng/uL	96
61)	Pyrene	0.00	202.0	0	0.00	ng/uL	
✓ 62)	Terphenyl-d14	31.86	244.0	76357	37.52	ng/uL	83
63)	Butylbenzylphthalate	0.00	149.0	0	0.00	ng/uL	
64)	3,3'-Dichlorobenzidine	0.00	252.0	0	0.00	ng/uL	
65)	Benzo(a)anthracene	0.00	228.0	0	0.00	ng/uL	
66)	Chrysene	0.00	228.0	0	0.00	ng/uL	
67)	Bis(2-Ethylhexyl)phthalate	0.00	149.0	0	0.00	ng/uL	
68)	*d12-Perylene	39.44	264.0	64708	20.00	ng/uL	93
69)	Di-n-octylphthalate	0.00	149.0	0	0.00	ng/uL	
70)	Benzo(b)fluoranthene	0.00	252.0	0	0.00	ng/uL	
71)	Benzo(k)fluoranthene	0.00	252.0	0	0.00	ng/uL	
72)	Benzo(a)pyrene	39.26	252.0	49415	16.89	ng/uL	95 ✓
73)	Indeno(1,2,3-cd)pyrene	0.00	276.0	0	0.00	ng/uL	
74)	Dibenz(a,h)anthracene	0.00	278.0	0	0.00	ng/uL	
75)	Benzo(g,h,i)perylene	0.00	276.0	0	0.00	ng/uL	

* Compound is ISTD

VOLUME 3 OF 3

REFERENCE NO.:	32380-02, SDG 2900
NARRATIVE CASE:	19026 **SAS 6702 HQ**
VIAR PRIME CONTRACT NO.:	68-D9-0135
S3 SUBCONTRACT NO:	S3-0135
ANALYSIS:	PESTICIDES

3LCC
LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Lab Sample ID:LCSW0430B LCS Lot. No.:3548

LCS Aliquot:500 (uL) Date Extracted:04/30/92

Concentrated Extract Volume:2000 (uL) Date Analyzed:05/02/92

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: N/A

Instrument ID(1):GC2 HP5890 GC Column(1): DB608 ID: 0.53 (mm)

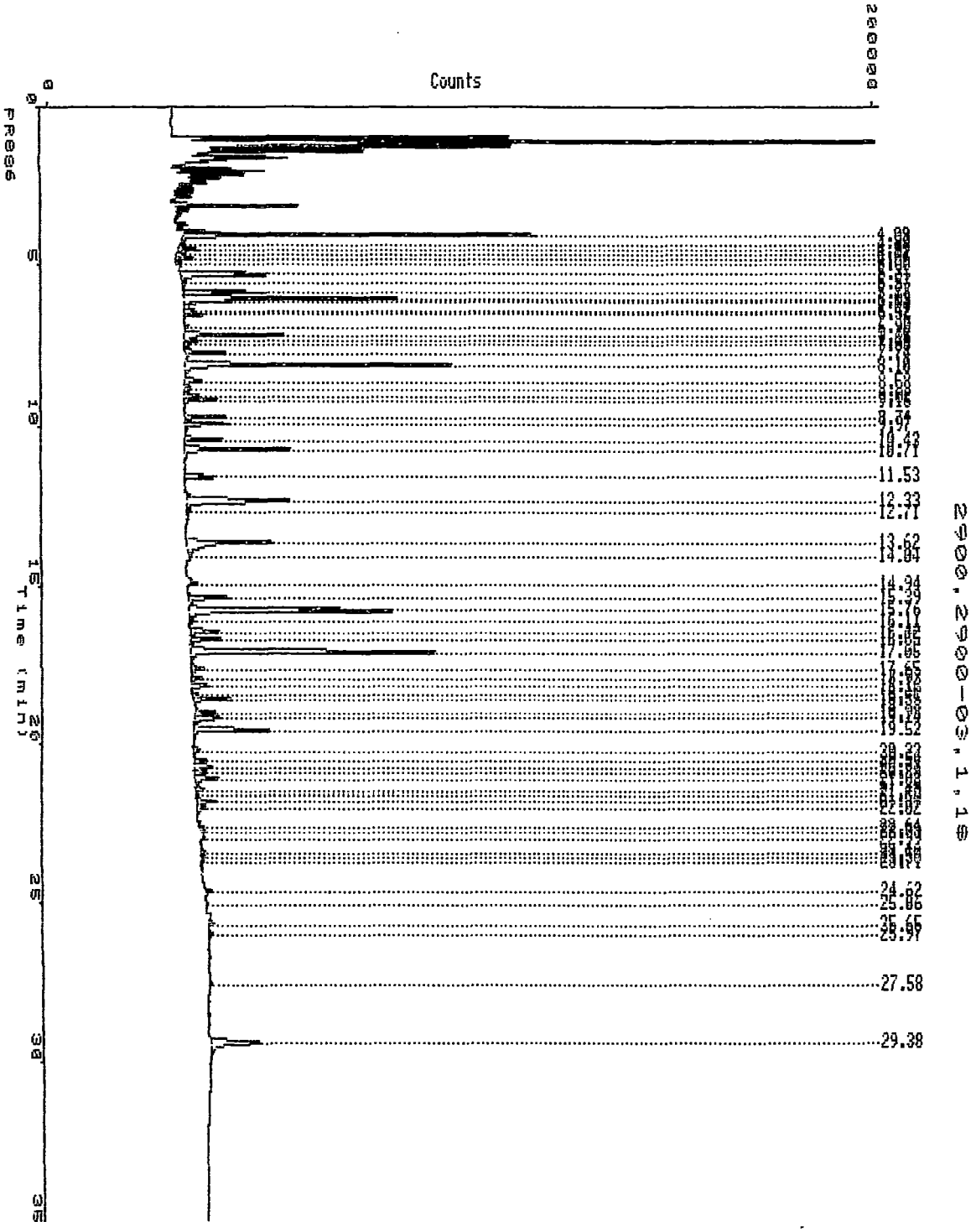
COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS REC.
gamma-BHC (Lindane)	50	44.5	89	56-123
Heptachlor epoxide	50	43.9	88	74-150
Dieldrin	100	110	110	33-130
4,4'-DDE	100	86.7	87	50-150
Endrin	100	93.6	94	56-121
Endosulfan sulfate	100	94.3	94	50-100
gamma-Chlordane	50	42.7	85	33-130

Instrument ID(2):GC2 HP5890 GC Column(2): DB1701 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS REC.
gamma-BHC (Lindane)	50	46.3	93	56-123
Heptachlor epoxide	50	45.4	91	74-150
Dieldrin	100	103	103	33-130
4,4'-DDE	100	99.5	100	50-150
Endrin	100	103	103	56-121
Endosulfan sulfate	100	94.6	95	50-100
gamma-Chlordane	50	46.5	93	33-130

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608030.RAW;1
Report: 51162
Acquired: 2-MAY-1992 10:31:41
Time range: 0.00-35.00



Date..... 4-MAY-1992 07:25:29.75
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608030.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 10:31:41
Sample name.....PR886
Notes.....2900,2900-03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

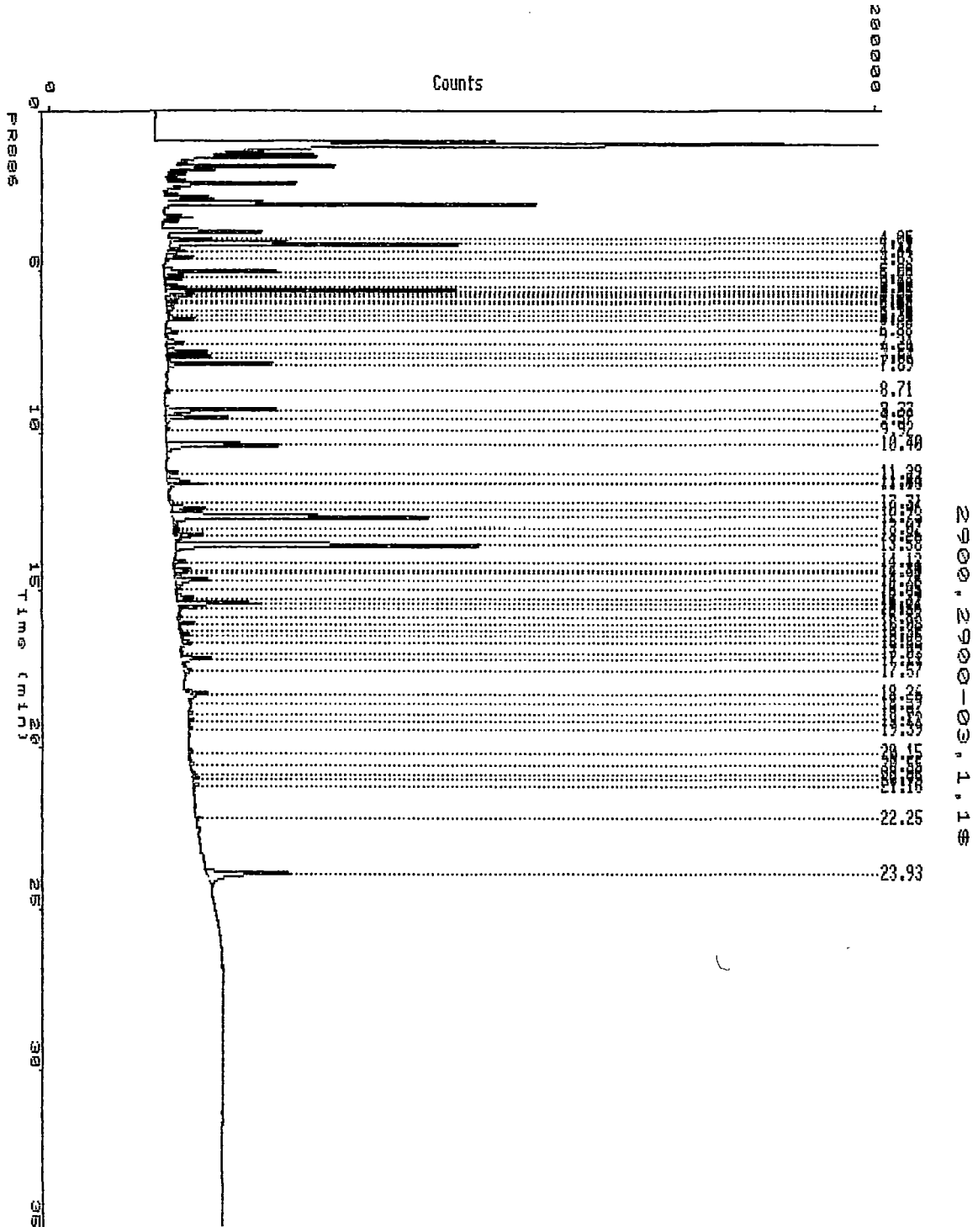
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.090			316553			BE	
	4.390			5567			EV	
	4.594			22114			EV	
	4.715			9248			VV	
	4.857			23616			VB	
	5.004			2888			BB	
	5.306			136750			BE	
	5.568			5595			EB	
	5.873			94581			BV	
	6.035			238776			VE	
	6.129			46719			EV	
	6.421			14374			VV	
	6.524			23657			VB	
	6.895			5192			BB	
TETRACL-M-XYLENE	7.177	-1.04	14.22	124138			BE	
	7.354			13536			EV	
	7.500			7494			EB	
	7.738			41926			BB	
	8.098			322761			BB	
	8.576			27303			BV	
	8.833			9796			VV	
	9.019			20889			VV	
	9.148			41722			VB	
A-BHC ✓	9.744	-0.82	6.137	46731			BV	
	9.965			59559			VB	
	10.431			42666			BV	
	10.714			135215			VB	
B-BHC ✓	11.531	-1.26	8.621	36731			BB	
	12.330			224437			BE	
	12.707			4169			EB	
ALDRIN ✓	13.623	-1.38	21.05	160755			BE	
	14.040			2907			EB	
	14.936			7940			BB	
	15.395			62092			BV	
HEPT.EPOX ✓	15.763	-1.40	38.07	314839			VE	
	16.115			9204			EB	
	16.420			42226			BV	
	16.651			48490			VV	
ENDOSULFAN I ✓	17.045	-1.51	50.42	370781			VV	

	17.645			26040	VB
DDE ✓ (BDL)	17.926	3.25	2.774	14739	BV
DIELDRIN ✓ (BDL)	18.159	0.64	3.919	23598	VB
	18.410			6557	BV
	18.555			49307	VB
	18.982			23542	BV
	19.137			48259	VB
ENDRIN ✓	19.517	-1.04	22.64	106711	BB
ENDOSULFAN II (NOT CONF)	20.224	-2.67	2.006	11690	BB
	20.538			18586	BV
	20.714			31215	VV
	20.889			19862	VV
DDT (NOT CONF)	21.083	2.21	12.15	44838	VV
ENDRIN ALDEHYDE ✓ (BDL)	21.428	-1.71	3.316	13207	VV
	21.585			3304	VB
ENDO.SULFATE (NOT CONF)	21.810	1.81	6.304	33088	BV
	22.015			13235	VB
	22.641			5015	BV
	22.789			4813	VB
	22.991			3270	BB
	23.399			5045	BV
	23.583			5644	VV
	23.707			2836	VB
ENDRIN KETONE ✓ (BDL)	24.619	-2.35	1.247	6756	BB
	25.064			2276	BB
	25.651			5371	BB
	25.969			5884	BB
	27.578			4454	BB
DECACHLOROBIPHEN	29.379	-1.72	18.55	130535	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701031.RAW;1
Report: 51161
Acquired: 2-MAY-1992 11:12:06
Time range: 0.00-35.00



Date..... 4-MAY-1992 07:24:00.28
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701031.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 11:12:06
Sample name.....PR886
Notes.....2900,2900-03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

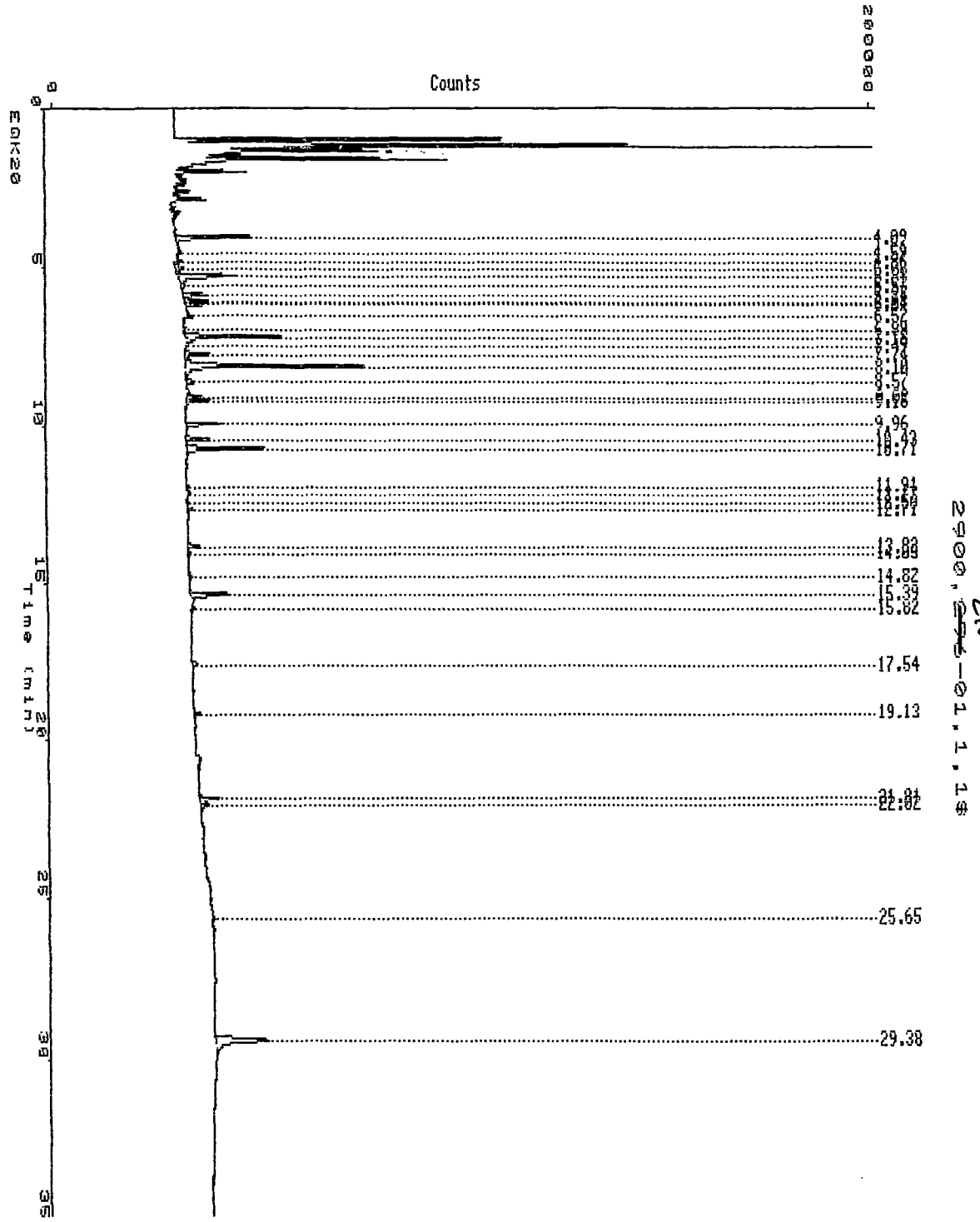
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.046			26702		BV	
	4.193			314950		VE	
	4.436			28395		EV	
	4.632			31185		EB	
TETRACL-M-XYLENE	5.080	-0.59	14.62	111387		BE	
	5.220			17567		EB	
	5.488			9807		BV	
	5.622			279788		VE	
	5.749			12446		EV	
	5.809			28011		EV	
	5.950			7971		VV	
	6.019			10455		VV	
	6.182			9926		VB	
	6.375			2704		BV	
	6.461			21876		VB	
	6.875			13644		BB	
	7.237			17881		BB	
	7.520			39699		BV	
A-BHC ✓	7.667	-0.41	5.962	38125		VB	
	7.891			103661		BB	
	8.705			4278		BB	
	9.315			138151		BV	
HEPTACHLOR (NOT conf)	9.570	-0.58	7.949	77463		VE	
	9.923			5665		EB	
ALDRIN ✓	10.397	-0.44	19.86	155216		BB	
	11.285			15345		BV	
	11.540			23653		VV	
B-BHC ✓	11.628	0.12	15.92	52463		VB	
D-BHC (NOT conf)	12.307	-2.82	0.8736	4473		BB	
	12.456			36716		BV	
HEPT.EPOX ✓	12.733	-0.76	41.34	359059		VE	
	13.071			8986		EB	
	13.259			18550		BB	
ENDOSULFAN I ✓	13.580	-0.63	47.82	379801		BB	
A-CHLORDANE (NOT conf)	14.122	-2.52	1.774	15400		BB	
	14.383			20823		BV	
DDE ✓ (BDL)	14.494	0.33	3.841	16269		VB	
DIELDRIN ✓ (BDL)	14.761	1.73	8.363	59017		BE	
	15.050			5743		EB	

	15.311			22686	BV
ENDRIN ✓	15.467	-0.41	18.37	97175	VV
	15.564			24348	VB
	15.869			4027	BB
	16.076			20567	BB
	16.321			2385	BV
	16.453			10240	VV
	16.682			12515	VB
	17.028			2477	BV
DDD (NOT CONF)	17.212	-2.54	20.65	46114	VV
	17.571			17977	VB
	18.258			18187	BB
ENDRIN ALDEHYDE ✓ (BOC)	18.588	-1.69	0.8335	3832	BB
	18.911			5351	BB
	19.124			6944	BB
	19.385			4139	BB
	20.148			5076	BB
	20.546			5637	BB
ENDRIN KETONE ✓ (BOC)	20.834	-0.83	0.6708	3875	BV
	20.949			7826	VB
	21.164			6588	BB
	22.252			6131	BB
DECACHLOROBIPHEN	23.927	-1.01	17.49	155902	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608031.RAW;1
Report: 51163
Acquired: 2-MAY-1992 11:12:00
Time range: 0.00-35.00



2900, 2906-01.1.1$

Date..... 4-MAY-1992 07:26:25.94
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608031.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 11:12:00
Sample name.....EQK20 2906 [illegible]
Notes.....2900,~~296~~-01,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

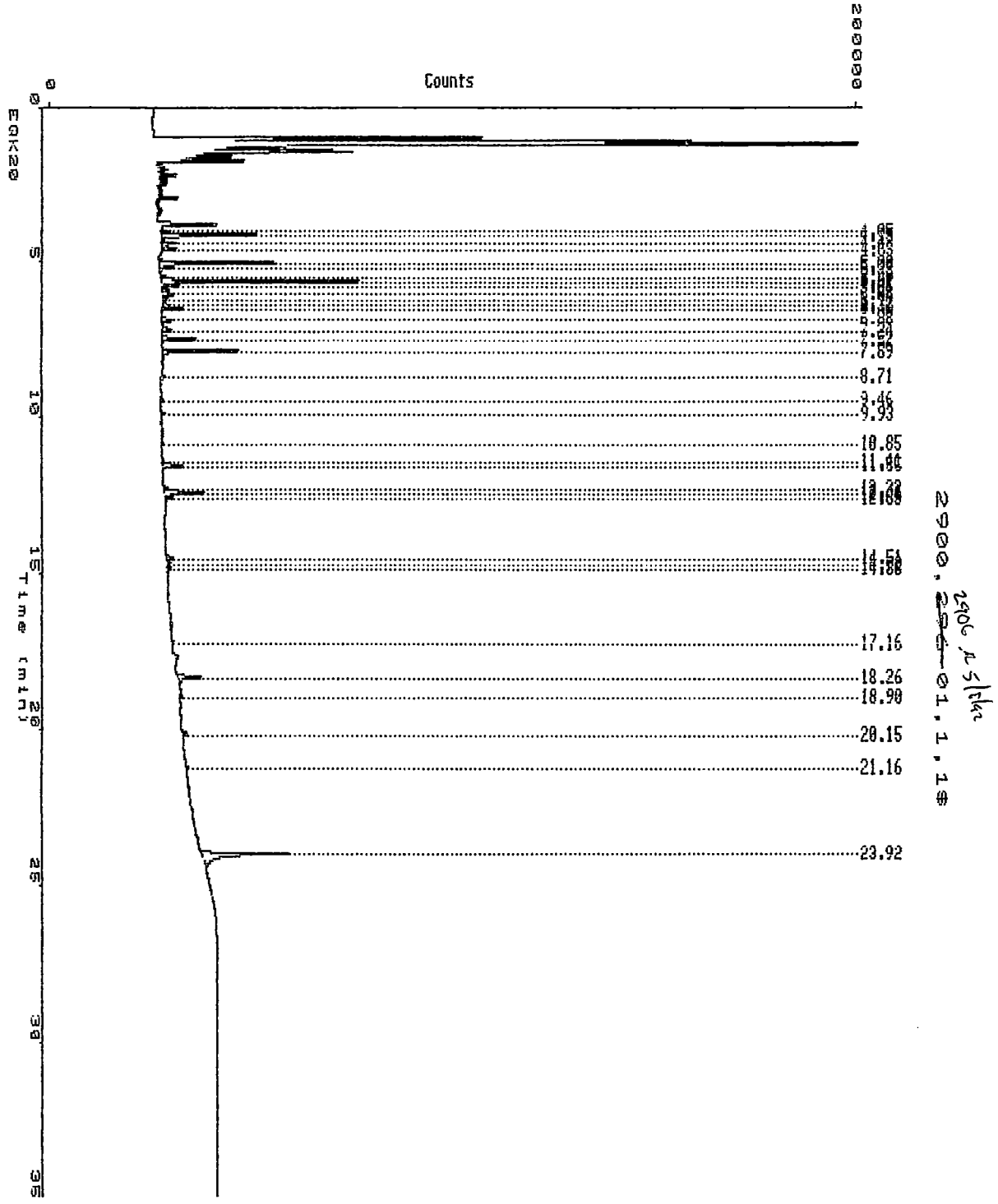
EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.092			84116			BB	
	4.593			2934			BB	
	4.859			8383			BB	
	5.084			16535			BV	
	5.306			84903			VE	
	5.571			6292			EB	
	5.872			28127			BV	
	6.035			26491			VV	
	6.136			24612			VB	
	6.525			6013			BB	
	6.895			2581			BB	
TETRACL-M-XYLENE	7.177	-0.99	12.08	105458			BB	
	7.494			2458			BB	
	7.739			32231			BV	
	8.098			228391			VB	
	8.571			9001			BB	
	9.024			16708			BV	
	9.147			28173			VB	
	9.964			48276			BB	
	10.430			25573			BB	
	10.714			93592			BB	
	11.915			1917			BV	
	12.175			5620			VB	
	12.505			2143			BB	
	12.707			6400			BB	
	13.818			16738			BE	
	14.029			3564			EB	
	14.817			4940			BB	
	15.395			54760			BB	
	15.817			4614			BB	
	17.535			8110			BB	
	19.127			8155			BB	
ENDO.SULFATE (not conf)	21.810	1.78	6.231	32707			BV	
	22.016			16292			VB	
	25.650			2327			BB	
DECACHLOROBIPHEN	29.381	-1.86	18.84	132582			BB	

ANALYSIS NOTES

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701032.RAW;1
Report: 51060
Acquired: 2-MAY-1992 11:52:27
Time range: 0.00-35.00



Date..... 2-MAY-1992 12:28:00.09
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701032.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 11:52:27
Sample name.....EQK20 2906 [illegible]
Notes.....2900,~~298~~-01,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

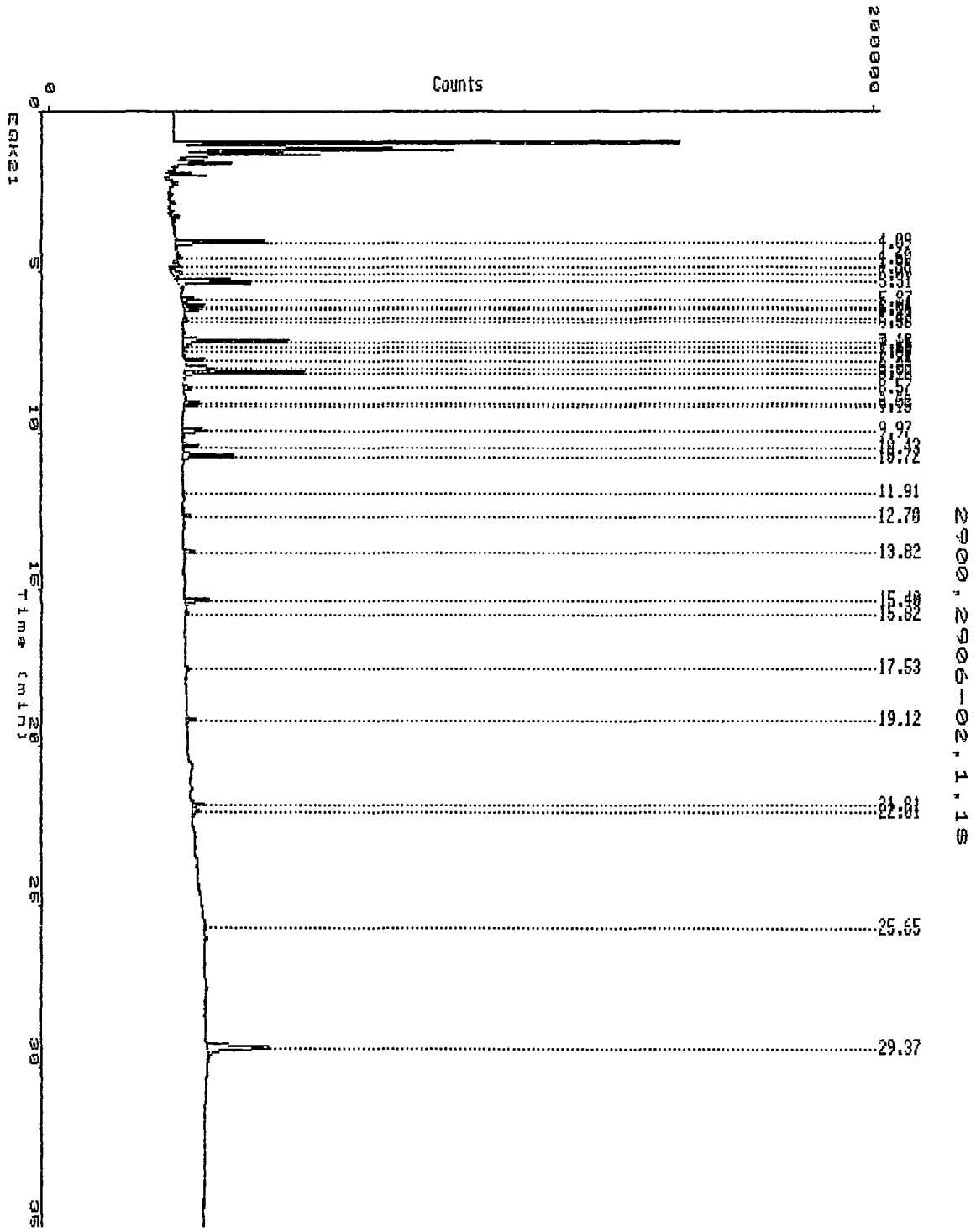
EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.048			6559			BV	
	4.153			126517			VV	
	4.427			24457			VV	
	4.634			17476			VB	
TETRACL-M-XYLENE	5.081	-0.64	15.09	115009			BE	
	5.219			12041			EB	
	5.489			3508			BV	
	5.624			191388			VE	
	5.751			9772			EV	
	5.810			18018			EV	
	6.023			17366			VV	
	6.193			4052			VB	
	6.377			5579			BV	
	6.463			19998			VB	
	6.879			12711			BB	
	7.238			11540			BB	
	7.522			32766			BB	
	7.893			77025			BB	
	8.707			4026			BB	
	9.455			1780			BB	
	9.927			5375			BB	
	10.847			1333			BB	
	11.405			2992			BV	
	11.552			31360			VB	
	12.320			5203			BV	
	12.458			52094			VE	
	12.630			7182			EB	
DDE (NOT conf.)	14.507	-0.42	2.190	9277			BV	
	14.717			6182			VV	
	14.876			4540			VB	
ENDOSULFAN II (NOT conf.)	17.165	-1.50	0.3608	2267			BB	
	18.256			28773			BB	
	18.904			2727			BB	
	20.147			8605			BB	
	21.164			3000			BB	
DECACHLOROBIPHEN	23.925	-0.89	19.34	172396			BB	

ANALYSIS NOTES

Data file: NAI$DIR:[DATA.GC21E0501-2DB608032.RAW;1
Report: 51059
Acquired: 2-MAY-1992 11:52:22
Time range: 0.00-35.00



Date..... 2-MAY-1992 12:28:01.01
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608032.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 11:52:22
Sample name.....EQK21
Notes.....2900,2906-02,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

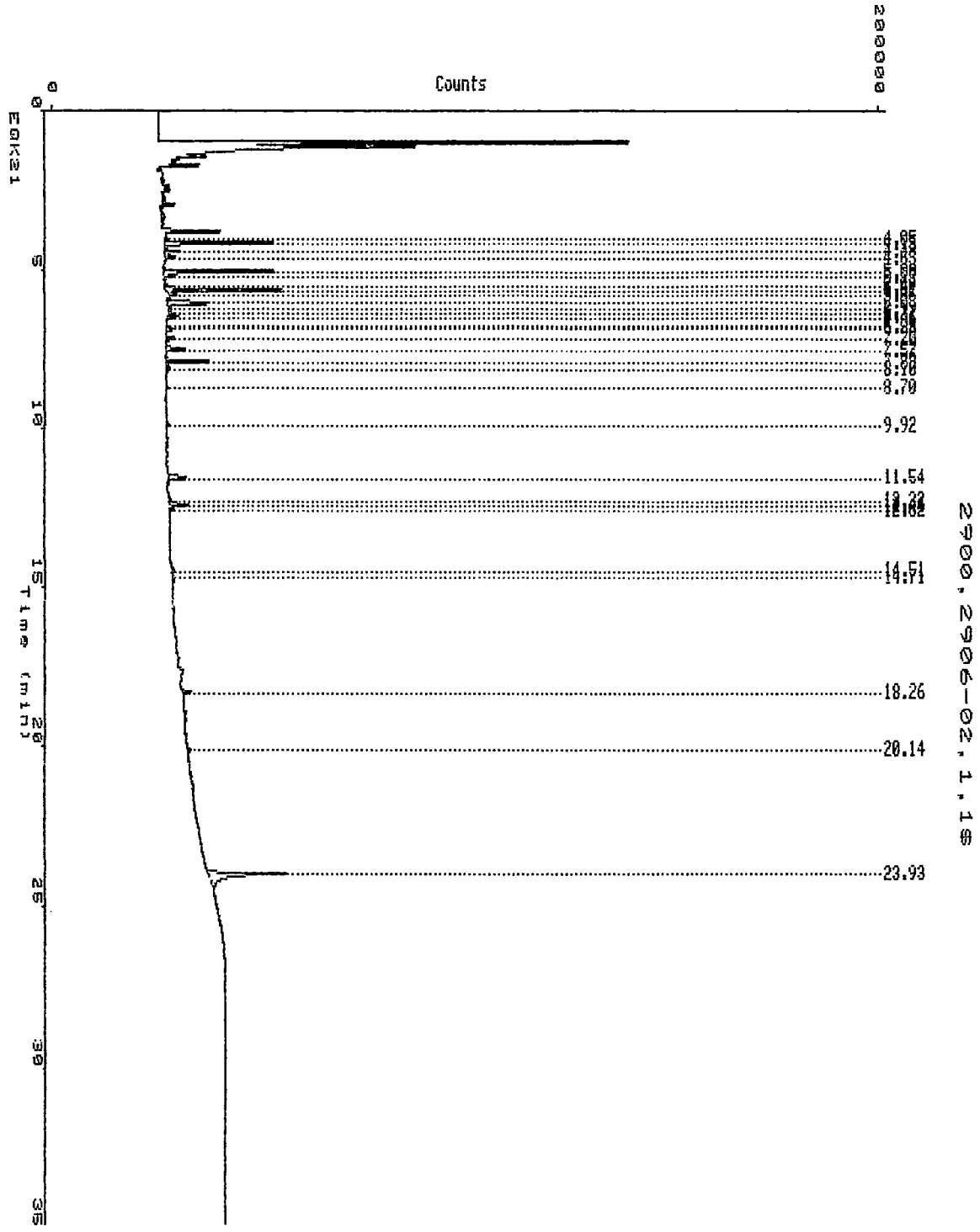
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.094			100269		BB	
	4.600			6169		BV	
	4.858			15930		VB	
	5.085			20560		BV	
	5.308			94243		VB	
	5.875			18757		BV	
	6.038			21263		VV	
	6.140			21096		VB	
	6.419			1744		BV	
	6.528			5385		VB	
TETRACL-M-XYLENE	7.179	-1.13	13.72	119777		BE	
	7.351			6609		EV	
	7.498			2934		EB	
	7.743			19036		BB	
	8.000			25311		BV	
	8.100			140140		VB	
	8.573			8083		BB	
	9.030			17897		BV	
	9.149			17527		VB	
	9.970			33194		BB	
	10.433			16832		BB	
	10.716			61838		BB	
	11.914			2010		BB	
	12.699			8018		BB	
	13.819			13777		BB	
	15.395			46293		BE	
	15.816			3936		EB	
	17.533			5002		BB	
	19.125			10705		BB	
ENDO.SULFATE (not conf)	21.808	1.91	3.928	20617		BV	
	22.013			11194		VB	
	25.648			2775		BB	
DECACHLOROBIPHEN	29.372	-1.35	21.42	150703		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB1701033.RAW;1
Report: 51061
Acquired: 2-MAY-1992 12:32:44
Time range: 0.00-35.00



Date..... 2-MAY-1992 13:08:16.85
Raw file.....NAI$DIR:[DATA.GC2]F0501-2D81701033.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 12:32:44
Sample name.....EQK21
Notes.....2900,2906-02,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

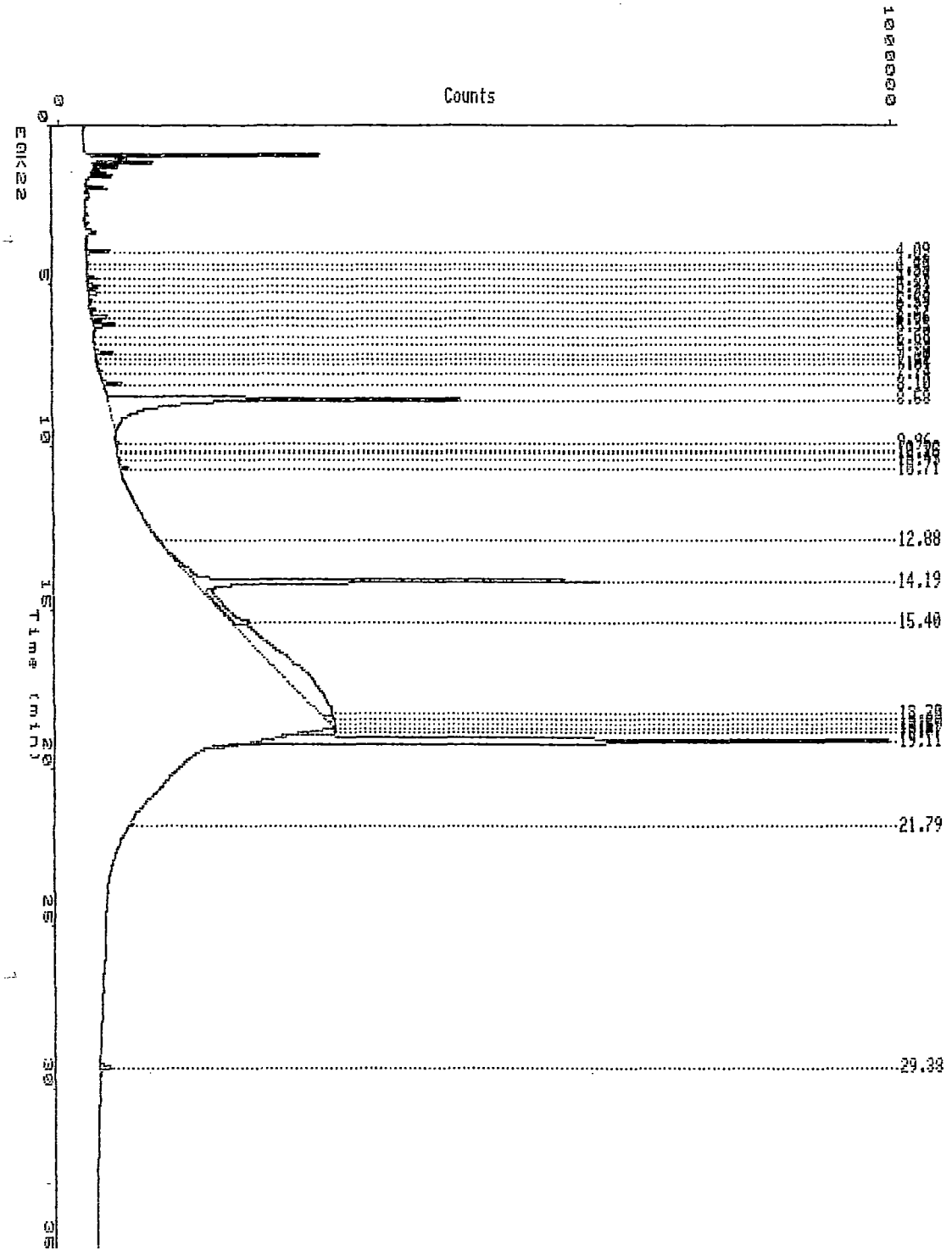
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.048			3514		BV	
	4.147			123871		VB	
	4.426			20336		BV	
	4.633			10522		VB	
TETRACL-M-XYLENE	5.079	-0.56	13.88	105770		BE	
	5.215			8323		EB	
	5.487			1229		BB	
	5.623			98761		BE	
	5.751			1585		EB	
	6.026			54129		BE	
	6.190			2091		EB	
	6.374			6046		BV	
	6.460			10612		VB	
	6.748			691		BB	
	6.877			8553		BB	
	7.204			11346		BB	
	7.519			17761		BB	
	7.891			42951		BE	
	8.099			5042		EB	
	8.702			2669		BB	
	9.924			3956		BB	
	11.543			25733		BB	
	12.319			2664		BV	
	12.457			25503		VE	
	12.625			3394		EB	
DDE (NOT CONF)	14.507	-0.40	0.9383	3974		BV	
	14.713			2199		VB	
	18.256			11240		BB	
	20.145			4327		BB	
DECACHLOROBIPHEN	23.926	-0.97	18.07	161134		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608033
Report: 51062
Acquired: 2-MAY-1992 12:32:38
Time range: 0.00-34.99



Date..... 2-MAY-1992 13:08:17.93
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608033.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 12:32:38
Sample name.....EQK22
Notes.....2900,2906-03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

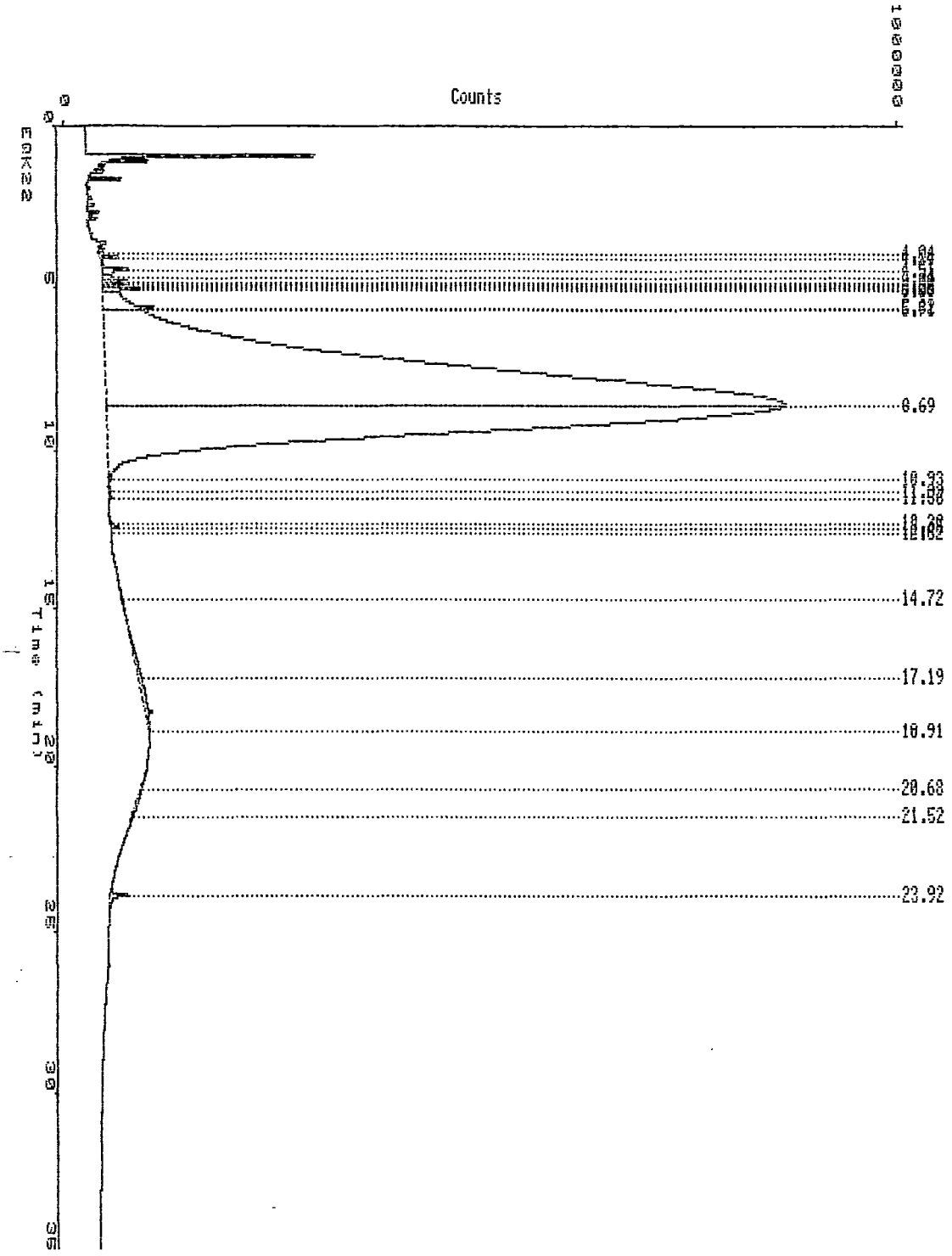
EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.090			138256		BE	
	4.433			14454		EV	
	4.592			6419		EB	
	4.885			51602		BV	
	5.114			65012		VB	
	5.327			76681		BB	
	5.587			22216		BB	
	5.867			35088		BV	
	6.055			91667		VV	
	6.163			60639		VB	
	6.327			180943		BB	
	6.684			3944		BB	
	6.893			4735		BB	
TETRACL-M-XYLENE	7.175	-0.91	11.24	98149		BE	
	7.319			7476		EB	
	7.506			11453		BB	
	7.742			13447		BB	
	8.097			109183		BB	
	8.584			4983008		BB	
	9.961			18617		BB	
	10.134			3134		BB	
	10.255			1010		BB	
	10.429			13090		BB	
	10.711			50295		BB	
D-BHC (not conf)	12.876	0.23	1.137	7415		BB	
	14.195			2996151		BE	
	15.404			520637		EV	
DIELDRIN ✓(BM)	18.205	-2.10	587.3	3536374		VV	
	18.415			85106		VV	
	18.566			16615		VB	
	18.671			24672		BV	
	18.867			511080		VV	
	19.114			7537873		VB	
ENDO.SULFATE (not conf)	21.790	2.99	5.805	30469		BB	
DECACHLOROBIPHEN	29.376	-1.58	18.94	133290		BB	

ANALYSIS NOTES

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701034
Report: 51064
Acquired: 2-MAY-1992 13:13:00
Time range: 0.00-34.99



Date..... 2-MAY-1992 13:48:34.40
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701034.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 13:13:00
Sample name.....EQK22
Notes.....2900,2906-03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

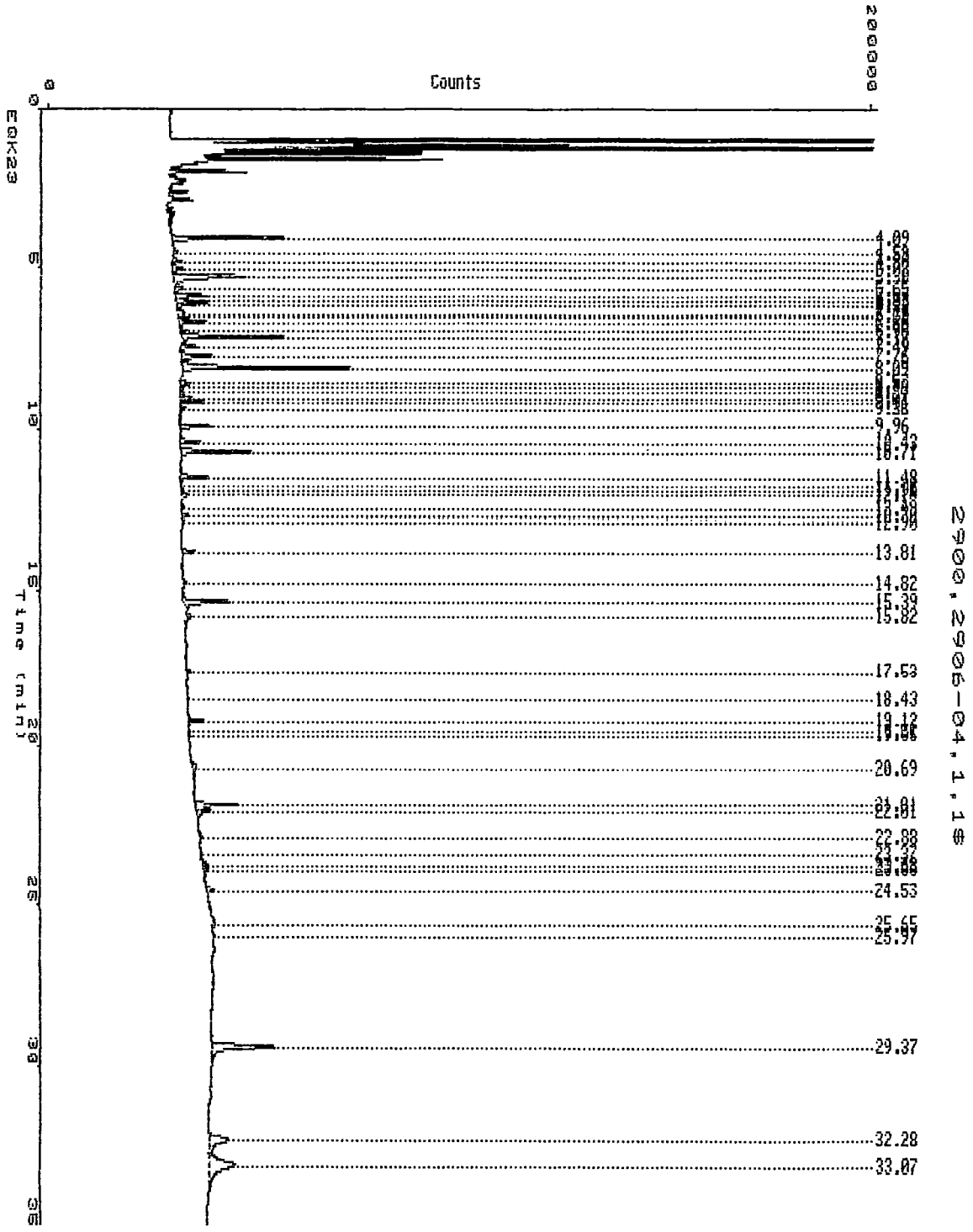
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.041			1344			BB	
	4.141			107114			BB	
	4.515			237925			BV	
	4.736			58454			VV	
	4.844			142159			VV	
	4.943			76568			VV	
	5.001			100783			VV	
TETRACL-M-XYLENE	5.082	-0.72	34.43	262370			VV	
	5.620			1007460			VV	
	5.708			66231034			VV	
	8.695			44402309			VV	
	10.935			37346			VV	
	11.392			31577			VV	
	11.560			21627			VB	
	12.319			3677			BV	
	12.454			53188			VE	
	12.624			4649			EB	
DIELDRIN ✓ (BDL)	14.724	3.96	0.6876	4852			BV	
ENDOSULFAN II (NOT CONF.)	17.188	-2.85	104.7	657712			VV	
	18.914			83397			VB	
	20.676			106076			BV	
	21.516			103885			VB	
DECACHLOROBIPHEN	23.920	-0.62	16.30	145283			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608034.RAW;1
Report: 51063
Acquired: 2-MAY-1992 13:12:55
Time range: 0.00-35.00



Date..... 2-MAY-1992 13:48:34.97
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608034.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 13:12:55
Sample name.....EQK23
Notes.....2900,2906-04,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

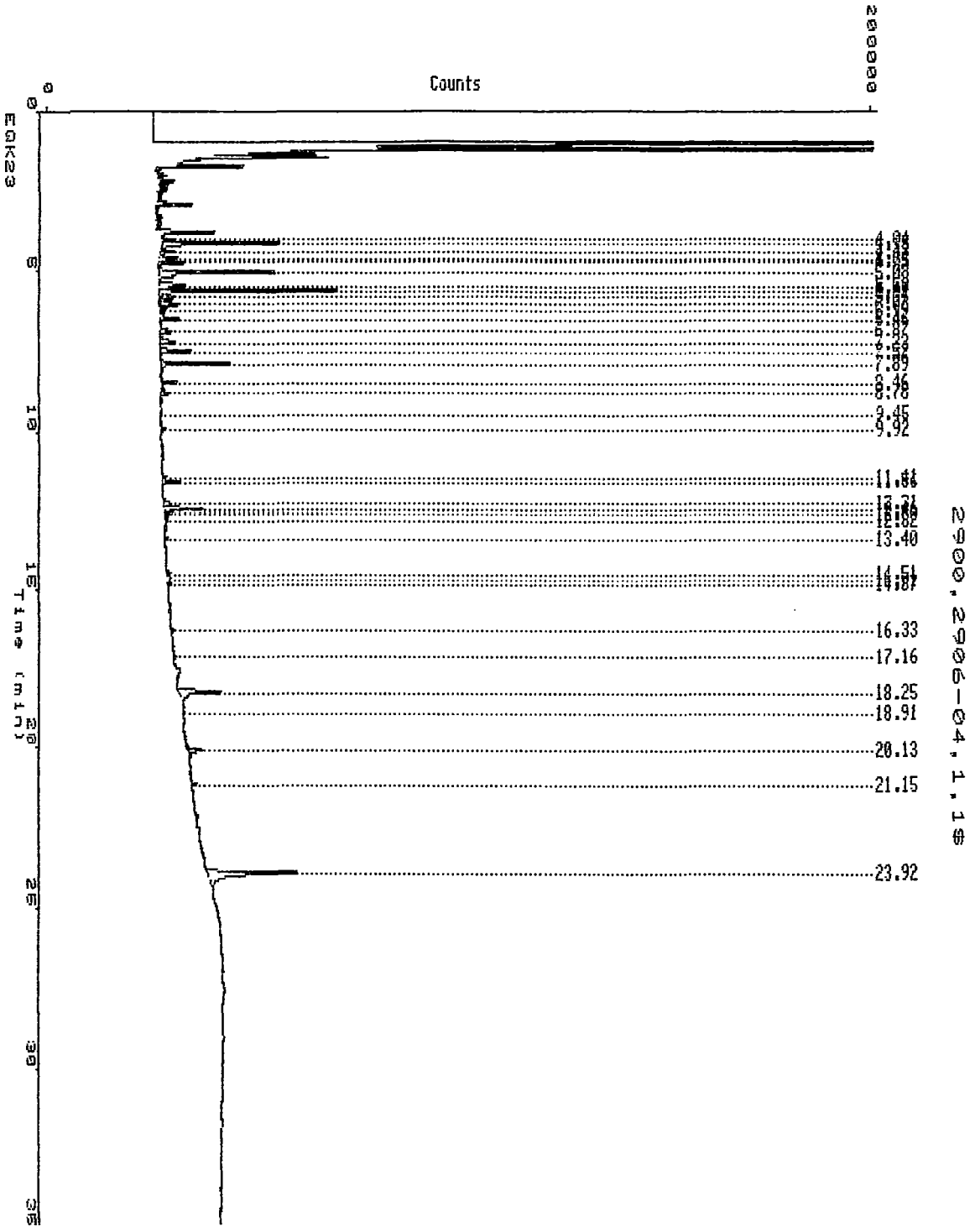
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.089			119189		BB	
	4.590			3541		BB	
	4.876			12719		BB	
	5.072			17601		BV	
	5.302			106809		VE	
	5.647			14591		EV	
	5.869			37080		VV	
	6.031			35721		VV	
	6.130			26265		VV	
	6.391			13872		VV	
	6.520			10694		VB	
	6.676			29947		BB	
	6.981			8857		BB	
TETRACL-M-XYLENE	7.172	-0.73	12.59	109891		BB	
	7.490			18577		BB	
	7.755			50637		BV	
	8.094			198598		VB	
	8.569			11338		BV	
	8.701			5286		VV	
	8.843			5167		VV	
	9.011			16651		VV	
	9.144			28362		VV	
	9.361			7999		VB	
	9.961			42225		BB	
	10.428			22167		BB	
	10.711			82324		BB	
B-BHC (NOT LOCK)	11.482	1.70	7.530	32083		BB	
	11.757			900		BB	
	11.912			2355		BV	
	12.097			13319		VB	
	12.488			4899		BB	
	12.703			7182		BV	
D-BHC ✓ (GOOD)	12.897	-1.01	0.3465	2260		VB	
	13.814			18611		BB	
	14.816			5520		BB	
	15.391			63063		BB	
	15.822			2116		BB	
	17.531			6157		BB	
	18.432			1913		BB	

	19.122			18794	BB
ENDRIN (not conf)	19.509	-0.56	0.3979	1875	BV
	19.649			2309	VB
	20.694			11820	BB
ENDO.SULFATE (not conf)	21.806	2.07	13.19	69229	BV
	22.008			28517	VB
	22.880			5981	BB
	23.371			1799	BB
	23.681			8727	BV
	23.858			5570	VB
ENDRIN KETONE (not conf)	24.535	2.71	2.008	10882	BB
	25.647			3113	BB
	25.965			2643	BB
DECACHLOROBIPHEN	29.372	-1.30	21.05	148134	BB
	32.275			81988	BV
	33.073			139494	VB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701035.RAW;1
Report: 51065
Acquired: 2-MAY-1992 13:53:16
Time range: 0.00-35.00



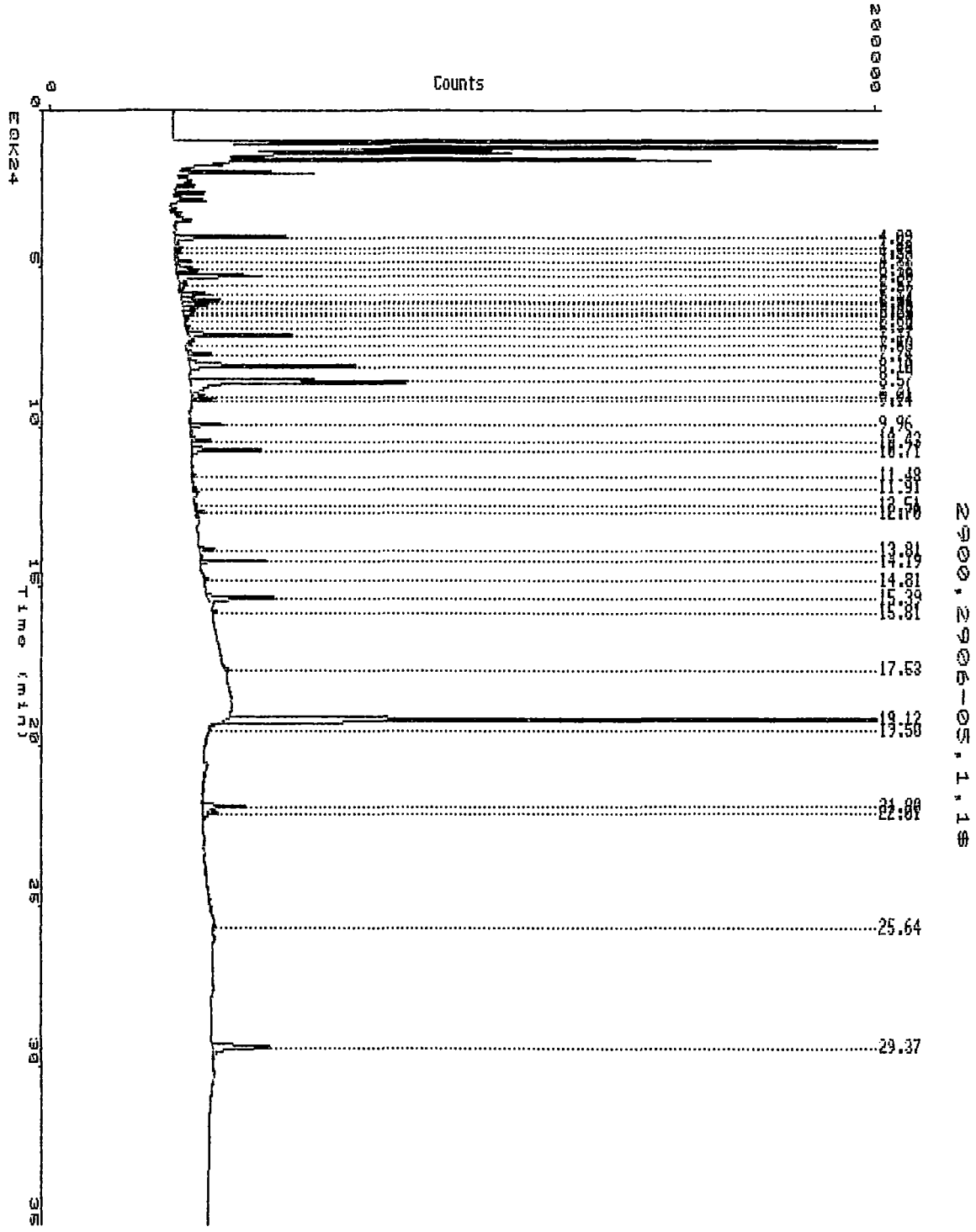
Date..... 2-MAY-1992 14:28:49.21
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701035.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 13:53:16
Sample name.....EQK23
Notes.....2900,2906-04,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.045			6488		BV	
	4.149			142608		VB	
	4.428			17000		BV	
	4.639			19983		VV	
	4.748			28625		VB	
TETRACL-M-XYLENE	5.079	-0.57	17.16	130754		BV	
	5.504			37777		VV	
	5.622			174245		VE	
	5.811			19513		EV	
	6.023			29387		EV	
	6.191			6952		VV	
	6.461			24863		VB	
	6.867			12454		BB	
	7.235			21487		BB	
	7.519			31467		BB	
	7.891			68755		BB	
	8.457			13154		BB	
	8.776			9461		BB	
	9.449			1274		BB	
	9.925			4698		BB	
	11.408			5210		BV	
	11.560			25398		VB	
D-BHC ✓ (BDL)	12.308	-2.90	2.220	11364		BV	
	12.456			49219		VE	
	12.629			8501		EV	
	12.824			3075		VB	
	13.404			1980		BB	
DDE (NOT CONF)	14.508	-0.46	1.394	5904		BV	
	14.715			5517		VV	
	14.875			3600		VB	
	16.333			3557		BB	
ENDOSULFAN II (NOT CONF)	17.161	-1.24	0.3425	2152		BB	
	18.252			66749		BB	
	18.906			2742		BB	
	20.127			23716		BB	
	21.153			6752		BB	
DECACHLOROBIPHEN	23.924	-0.87	19.24	171547		BB	

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608035.RAW;1
Report: 51066
Acquired: 2-MAY-1992 13:53:10
Time range: 0.00-35.00



Date..... 2-MAY-1992 14:28:50.45
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608035.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 13:53:10
Sample name.....EQK24
Notes.....2900,2906-05,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

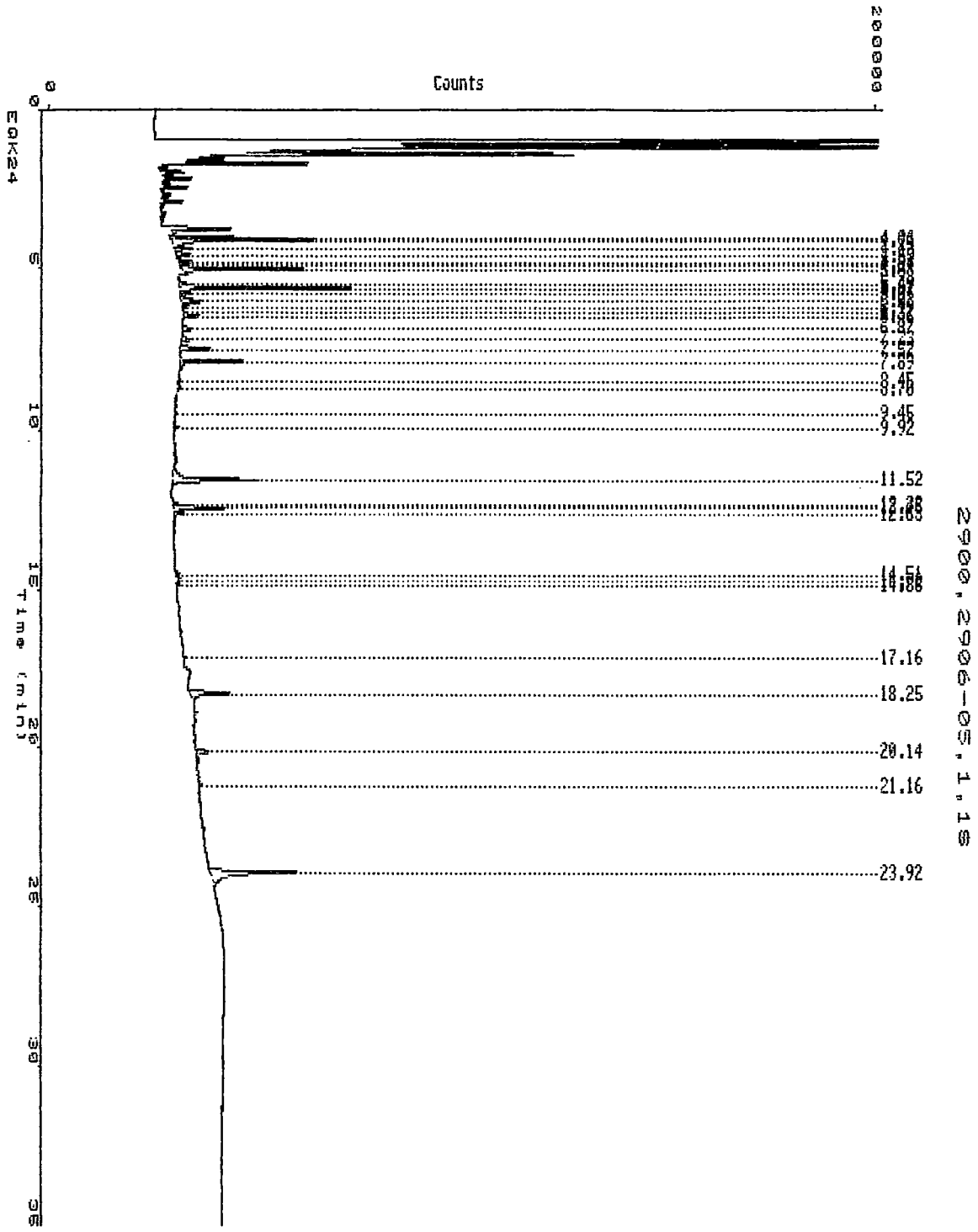
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.090			122818		BE	
	4.433			12797		EV	
	4.592			9849		EV	
	4.876			23888		VB	
	5.105			35980		BV	
	5.304			120799		VE	
	5.572			19633		EV	
	5.871			36869		VV	
	6.041			47530		VV	
	6.143			39669		VV	
	6.298			14009		VV	
	6.395			18211		VV	
	6.523			10625		VB	
	6.685			5583		BB	
	6.890			2918		BB	
TETRACL-M-XYLENE	7.174	-0.82	12.49	109056		BB	
	7.498			5488		BB	
	7.739			28844		BV	
	8.095			191871		VB	
	8.566			320533		BE	
	9.014			23099		EV	
	9.144			28987		EB	
	9.961			42989		BB	
	10.428			21616		BB	
	10.710			80939		BB	
B-BHC (NOT CONF)	11.481	1.71	0.9925	4229		BB	
	11.913			2359		BB	
	12.508			3866		BV	
	12.698			11837		VB	
	13.813			19964		BB	
	14.187			67780		BB	
	14.809			6510		BB	
	15.387			88399		BB	
	15.812			6271		BB	
	17.526			6311		BB	
	19.115			1642288		BB	
ENDRIN (NOT CONF)	19.501	-0.05	0.3395	1600		BB	
ENDO.SULFATE (NOT CONF)	21.800	2.41	13.19	69243		BV	
	22.007			31237		VB	

	25.643			3004	BB
DECACHLOROBIPHEN	29.371	-1.28	20.06	141113	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB1701036.RAW;1
Report: 51067
Acquired: 2-MAY-1992 14:33:37
Time range: 0.00-35.00



Date..... 2-MAY-1992 15:09:10.39
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701036.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 14:33:37
Sample name.....EQK24
Notes.....2900,2906-05,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

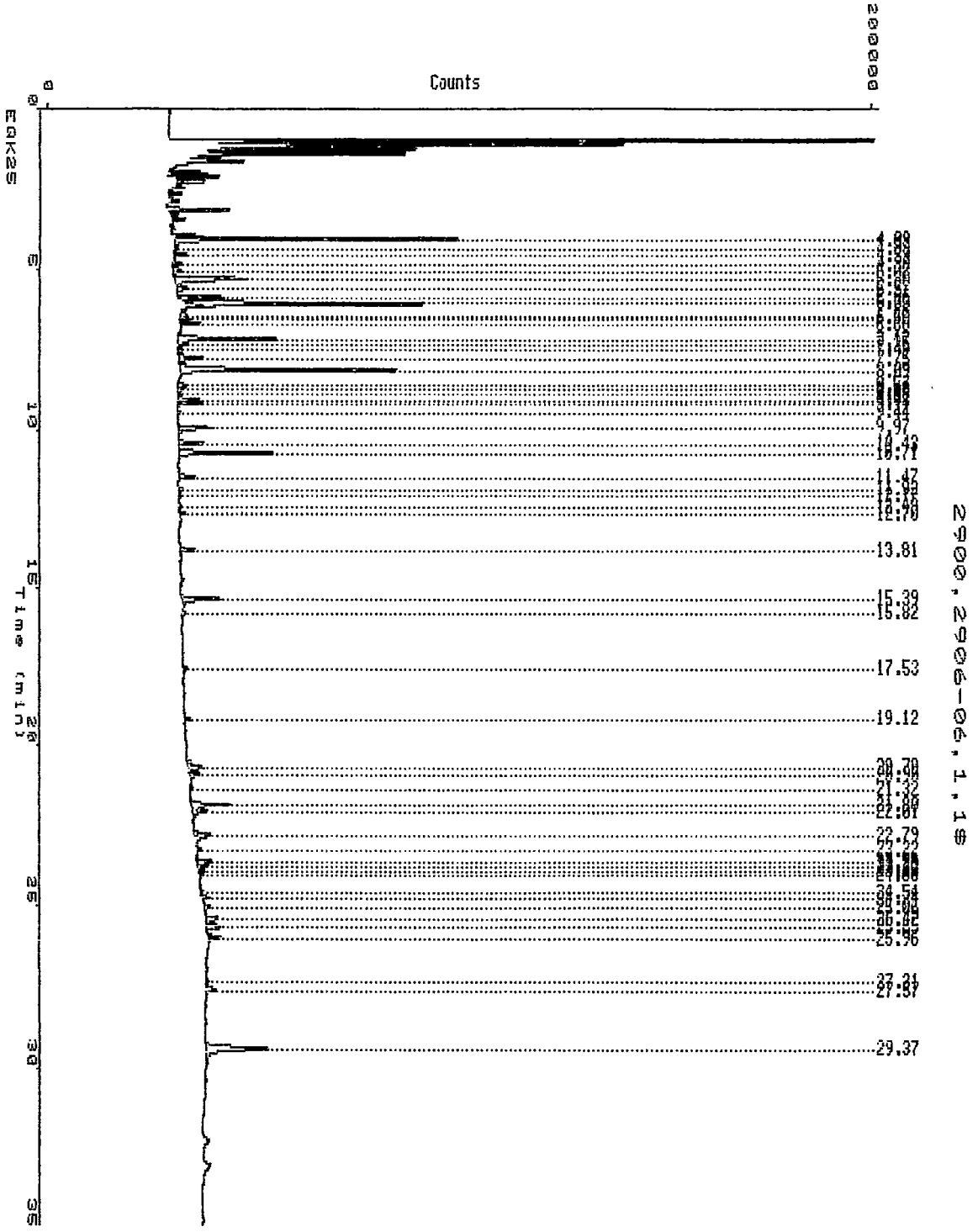
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.065			43334		BV	
	4.142			182724		VE	
	4.421			26642		EV	
	4.630			18135		EV	
	4.843			12700		VB	
	4.940			1472		BV	
TETRACL-M-XYLENE	5.077	-0.43	14.06	107163		VB	
	5.493			7650		BV	
	5.619			164947		VE	
	5.807			16830		EV	
	6.021			24820		VV	
	6.189			4963		VB	
	6.373			1800		BV	
	6.459			13328		VB	
	6.873			11251		BB	
	7.232			10092		BB	
	7.517			29311		BB	
	7.889			61990		BB	
	8.452			1408		BB	
	8.702			3385		BB	
	9.448			1557		BB	
	9.924			6549		BB	
	11.519			109803		BB	
	12.316			4793		BV	
	12.454			62739		VE	
	12.628			10495		EB	
DDE (NOT conf)	14.508	-0.46	1.333	5647		BV	
	14.720			6363		VV	
	14.875			3905		VB	
ENDOSULFAN II (NOT conf)	17.162	-1.34	0.3028	1903		BB	
	18.255			58426		BB	
	20.145			19426		BB	
	21.155			4305		BB	
DECACHLOROBIPHEN	23.924	-0.87	18.74	167033		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608036.RAW;1
Report: 51068
Acquired: 2-MAY-1992 14:33:31
Time range: 0.00-35.00



Date..... 2-MAY-1992 15:09:10.15
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608036.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 14:33:31
Sample name.....EQK25
Notes.....2900,2906-06,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

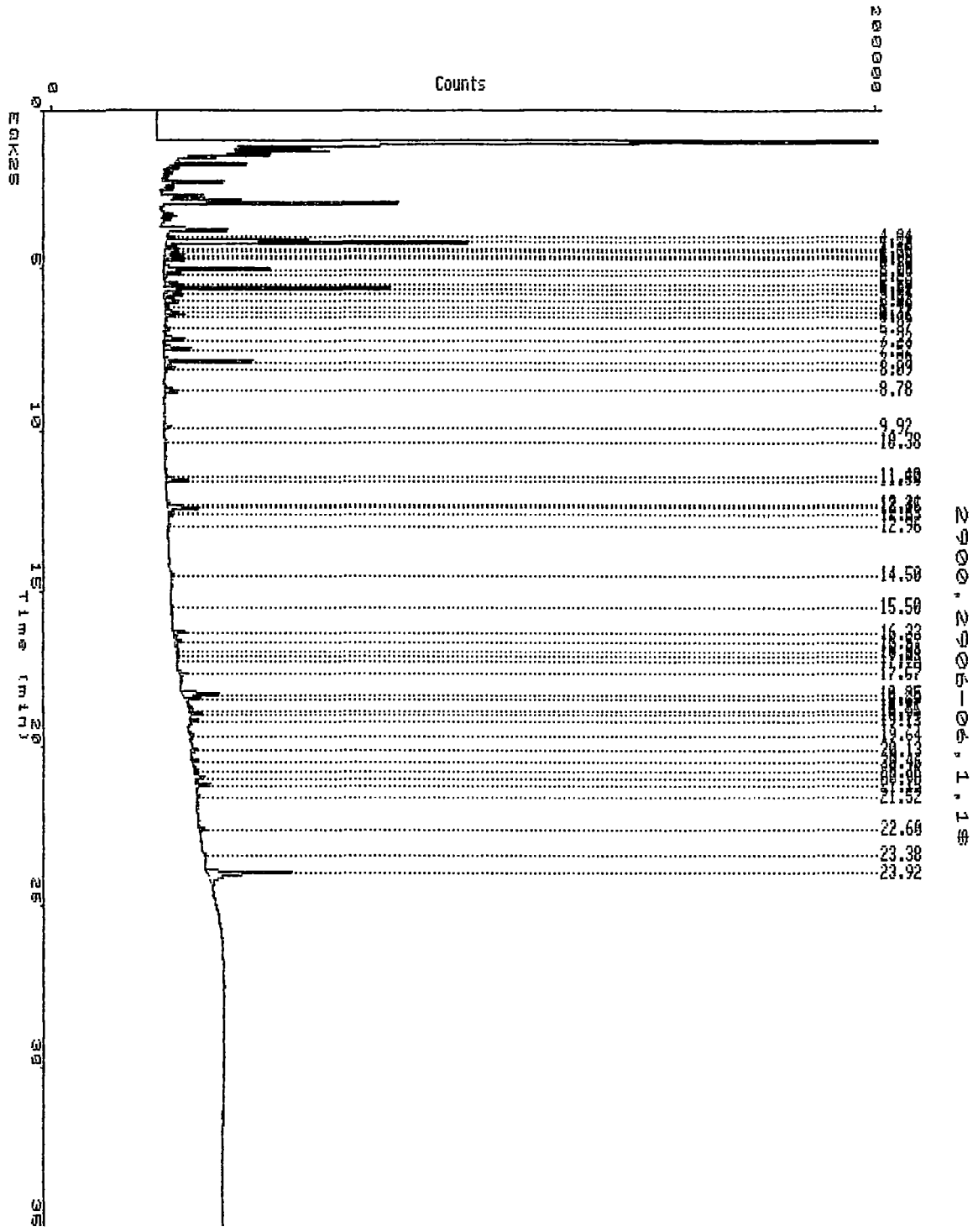
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.086			257136		BE	
	4.394			3112		EV	
	4.590			13231		EB	
	4.879			11126		BB	
	5.072			16078		BB	
	5.301			103701		BE	
	5.566			16190		EB	
	5.863			42050		BB	
	6.031			194605		BB	
	6.403			9881		BV	
	6.520			11704		VB	
	6.677			24558		BB	
TETRACL-M-XYLENE	7.173	-0.75	13.54	118195		BE	
	7.349			11904		EV	
	7.493			6025		EB	
	7.746			36244		BV	
	8.094			253941		VB	
	8.567			10122		BV	
	8.679			5609		VV	
	8.832			4778		VV	
	9.027			26863		VV	
	9.144			30668		VE	
	9.436			2765		EB	
	9.969			50802		BB	
	10.428			28130		BV	
	10.711			116989		VB	
B-BHC (not found)	11.471	2.34	4.753	20250		BB	
	11.918			5126		BV	
	12.168			4590		VB	
	12.494			2308		BB	
	12.700			6367		BB	
	13.814			19954		BB	
	15.390			54104		BB	
	15.815			3972		BB	
	17.529			4678		BB	
	19.120			5863		BB	
	20.703			29810		BV	
	20.900			15719		VB	
	21.317			3153		BB	

ENDO.SULFATE ✓(BDL)	21.802	2.28	11.66	61178	BV
	22.010			24432	VB
	22.788			9986	BB
	23.223			6540	BB
	23.583			19967	BV
	23.697			14586	VV
	23.850			8014	VV
	23.996			6473	VB
ENDRIN KETONE ✓(BDL)	24.536	2.62	0.5845	3167	BV
	24.741			11034	VB
	25.063			7469	BB
	25.417			25221	BV
	25.646			21319	VB
	25.965			18348	BB
	27.310			4912	BV
	27.571			17955	VB
DECACHLOROBIPHEN	29.366	-0.97	20.75	145971	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701037.RAW;1
Report: 51070
Acquired: 2-MAY-1992 15:13:57
Time range: 0.00-35.00



Date..... 2-MAY-1992 15:49:30.85
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701037.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 15:13:57
Sample name.....EQK25
Notes.....2900,2906-06,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.042			4494		BB	
	4.190			335504		BE	
	4.425			17052		EV	
	4.496			14360		EV	
	4.628			24126		EV	
	4.746			25424		VB	
TETRACL-M-XYLENE	5.077	-0.42	13.70	104399		BE	
	5.216			16867		EB	
	5.500			14968		BV	
	5.619			214912		VE	
	5.809			26113		EV	
	6.021			24624		VV	
	6.189			3904		VV	
	6.372			12308		VV	
	6.458			19001		VB	
	6.875			6590		BB	
	7.235			20456		BB	
	7.516			25847		BB	
	7.888			91978		BE	
	8.094			12399		EB	
	8.776			15042		BB	
	9.921			8944		BB	
ALDRIN (not conf)	10.380	0.58	0.3659	2860		BB	
	11.401			2339		BV	
	11.555			29341		VB	
	12.314			3280		BV	
	12.453			40208		VE	
	12.631			5334		EB	
	12.963			1863		BB	
DDE (not conf)	14.502	-0.14	0.8967	3798		BB	
ENDRIN (not conf)	15.496	-2.17	0.1554	822		BB	
	16.316			16731		BV	
	16.569			11842		VV	
	16.837			4889		VV	
	17.026			3782		VV	
ENDOSULFAN II (not conf)	17.161	-1.27	0.3262	2050		VB	
	17.566			15343		BB	
	18.251			46303		BV	
	18.394			19304		VB	

	18.746			7461	BV
	18.910			16328	VB
	19.132			9274	BB
ENDO.SULFATE ✓ (GOC)	19.637	1.39	0.6930	3943	BB
	20.128			9229	BB
	20.455			7042	BB
ENDRIN KETONE ✓ (GOC)	20.758	3.69	1.022	5906	BV
	20.930			13348	VV
	21.153			20999	VB
	21.519			2649	BB
	22.599			8103	BB
	23.385			1983	BB
DECACHLOROBIPHEN	23.922	-0.72	17.37	154891	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

6D
PESTICIDE INITIAL CALIBRATION COMPONENT ANALYTES

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Instrument ID: 2 Level (x low): low 1X mid 4X high 16X
GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 5/1/92 4/30/92

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN	RT WINDOW	
alpha-BHC	9.72	9.73	9.73	9.73	9.68	9.78
beta-BHC	11.51	11.51	11.51	11.51	11.46	11.56
delta-BHC	12.88	12.88	12.88	12.88	12.83	12.93
gamma-BHC (Lindane)	11.20	11.21	11.20	11.20	11.13	11.27
Heptachlor	12.39	12.39	12.39	12.39	12.34	12.44
Aldrin	13.60	13.60	13.60	13.60	13.55	13.65
Heptachlor epoxide	15.74	15.74	15.74	15.74	15.67	15.81
Endosulfan I	17.02	17.02	17.02	17.02	16.95	17.09
Dieldrin	18.16	18.17	18.16	18.16	18.09	18.23
4,4'-DDE	17.98	17.99	17.98	17.98	17.91	18.05
Endrin	19.50	19.50	19.50	19.50	19.43	19.57
Endosulfan II	20.18	20.18	20.18	20.18	20.11	20.25
4,4'-DDD	20.04	20.04	20.04	20.04	19.97	20.11
Endosulfan sulfate	21.84	21.84	21.84	21.84	21.77	21.91
4,4'-DDT	21.11	21.12	21.11	21.11	21.04	21.18
Methoxychlor	24.34	24.34	24.34	24.34	24.27	24.41
Endrin ketone	24.58	24.58	24.58	24.58	24.51	24.65
Endrin Aldehyde	21.40	21.40	21.40	21.40	21.33	21.47
alpha-Chlordane	16.95	16.95	16.95	16.95	16.88	17.02
gamma-Chlordane	16.34	16.34	16.34	16.34	16.27	16.41
Tetrachloro-m-xylene	7.16	7.16	7.16	7.16	7.11	7.21
Decachlorobiphenyl	29.35	29.35	29.34	29.35	29.25	29.45

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ± 0.07 minutes for all other compounds, except ± 0.10 minutes for Decachlorobiphenyl.

6D
PESTICIDE INITIAL CALIBRATION COMPONENT ANALYTES

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Instrument ID: 2 Level (x low): low 1X mid 4X high 16X
GC Column: DB1701 ID: 0.53 (mm) Date(s) Analyzed: 5/1/92 4/30/92

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN	RT WINDOW	
alpha-BHC	7.66	7.66	7.66	7.66	7.61	7.71
beta-BHC	11.63	11.63	11.62	11.63	11.58	11.68
delta-BHC	12.26	12.26	12.26	12.26	12.21	12.31
gamma-BHC (Lindane)	8.92	8.92	8.92	8.92	8.85	8.99
Heptachlor	9.56	9.56	9.56	9.56	9.51	9.61
Aldrin	10.38	10.39	10.38	10.38	10.33	10.43
Heptachlor epoxide	12.72	12.73	12.72	12.72	12.65	12.79
Endosulfan I	13.57	13.57	13.57	13.57	13.50	13.64
Dieldrin	14.79	14.79	14.79	14.79	14.72	14.86
4,4'-DDE	14.50	14.50	14.49	14.50	14.43	14.57
Endrin	15.46	15.46	15.45	15.46	15.39	15.53
Endosulfan II	17.14	17.14	17.14	17.14	17.07	17.21
4,4'-DDD	17.17	17.17	17.16	17.17	17.10	17.24
Endosulfan sulfate	19.66	19.66	19.65	19.66	19.59	19.73
4,4'-DDT	17.68	17.68	17.68	17.68	17.61	17.75
Methoxychlor	19.91	19.91	19.90	19.91	19.84	19.98
Endrin ketone	20.82	20.82	20.82	20.82	20.75	20.89
Endrin Aldehyde	18.56	18.56	18.55	18.56	18.49	18.63
alpha-Chlordane	14.08	14.09	14.08	14.08	14.01	14.15
gamma-Chlordane	13.86	13.86	13.86	13.86	13.79	13.93
Tetrachloro-m-xylene	5.07	5.07	5.07	5.07	5.02	5.12
Decachlorobiphenyl	23.91	23.91	23.90	23.91	23.81	24.01

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ± 0.07 minutes for all other compounds, except ± 0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Instrument ID: 2 Level (x low): low 1X mid 4X high 16X
GC Column: DB608 ID: 0.53 (mm) Date(s) Analyzed: 5/1/92 4/30/92

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	7154	7614	9445	8071	15.0
beta-BHC	4155	4261	4148	4188	1.5
delta-BHC	5978	6523	7681	6727	12.9
gamma-BHC (Lindane)	8050	8380	9833	8754	10.8
Heptachlor	9740	9260	9493	9497	2.5
Aldrin	7634	7637	8406	7892	5.6
Heptachlor epoxide	8354	8269	8188	8270	1.0
Endosulfan I	7624	7353	7516	7497	1.8
Dieldrin	6197	6021	6841	6353	6.8
4,4'-DDE	4637	5313	5589	5179	9.5
Endrin	4961	4713	5443	5039	7.4
Endosulfan II	5659	5828	5649	5712	1.8
4,4'-DDD	2876	3235	3830	3313	14.5
Endosulfan sulfate	5055	5249	5039	5114	2.3
4,4'-DDT	3672	3691	4370	3911	10.2
Methoxychlor	1877	1953	2064	1964	4.8
Endrin ketone	4957	5418	5488	5287	5.5
Endrin Aldehyde	3819	3983	3695	3832	3.8
alpha-Chlordane	8254	8113	7982	8116	1.7
gamma-Chlordane	7693	7667	7382	7580	2.3
Tetrachloro-m-xylene	8937	8729	8419	8695	3.0
Decachlorobiphenyl	7287	7036	6828	7050	3.3

* Surrogate retention times are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% byt less than or equal to 30.0%.

FORM VI PEST-2

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
Instrument ID: 2 Level (x low): low 1X mid 4X high 16X
GC Column: DB1701 ID: 0.53 (mm) Date(s) Analyzed: 5/1/92 4/30/92

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	5439	6395	8663	6832	24.2
beta-BHC	3388	3295	3473	3385	2.6
delta-BHC	4528	5120	6500	5382	18.8
gamma-BHC (Lindane)	6166	7251	9046	7487	19.4
Heptachlor	9378	9745	10550	9891	6.1
Aldrin	7309	7816	9028	8051	11.0
Heptachlor epoxide	8487	8686	8997	8723	2.9
Endosulfan I	7367	7943	8408	7906	6.6
Dieldrin	6273	7056	7932	7087	11.7
4,4'-DDE	4208	4235	4914	4452	9.0
Endrin	5051	5290	6229	5523	11.3
Endosulfan II	5949	6284	6657	6296	5.6
4,4'-DDD	2101	2233	3053	2462	20.9
Endosulfan sulfate	5206	5689	5912	5602	6.4
4,4'-DDT	3848	2889	3895	3544	16.0
Methoxychlor	1465	1719	1866	1683	12.1
Endrin ketone	4575	5777	6492	5614	17.3
Endrin Aldehyde	3424	4597	4470	4163	15.5
alpha-Chlordane	8393	8683	8913	8663	3.0
gamma-Chlordane	7816	7799	8086	7900	2.0
Tetrachloro-m-xylene	7485	7620	7764	7623	1.8
Decachlorobiphenyl	7706	8915	8479	8366	7.3

* Surrogate retention times are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0 % for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% byt less than or equal to 30.0%.

FORM VI PEST-2

6LCF

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Instrument ID:GC2 HP5890 Date Analyzed:04/30/92

GC Column: DB608 ID:0.53(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	TO	CALIBRATION FACTOR
Toxaphene	500	*1	20.27	20.20	20.34	218
		*2	22.66	22.59	22.73	123
		*3	23.19	23.12	23.26	222
		4	23.41	23.34	23.48	266
		5	24.54	24.47	24.61	117
Aroclor 1016	100	*1	9.60	9.53	9.67	176
		*2	11.16	11.09	11.23	406
		*3	12.51	12.44	12.58	724
		4	13.12	13.05	13.19	257
		5	14.92	14.85	14.99	230
Aroclor 1221	200	*1	8.79	8.72	8.86	109
		*2	9.35	9.28	9.42	76
		*3	9.59	9.52	9.66	252
		4	11.12	11.05	11.19	64
		5	12.51	12.44	12.58	50
Aroclor 1232	100	*1	11.15	11.08	11.22	280
		*2	12.50	12.43	12.57	471
		*3	13.11	13.04	13.18	163
		4	14.91	14.84	14.98	182
		5	16.09	16.02	16.16	166

* Denotes required peaks

FORM VI LCP-3

6LCF

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Instrument ID:GC2 HP5890 Date Analyzed:04/30/92

GC Column: DB608 ID:0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	TO	CALIBRATION FACTOR
Aroclor 1242	100	*1	11.15	11.08	11.22	323
		*2	12.50	12.43	12.57	579
		*3	13.12	13.05	13.19	207
		4	14.92	14.85	14.99	213
		5	17.12	17.05	17.19	136
Aroclor 1248	100	*1	12.51	12.44	12.58	451
		*2	13.72	13.65	13.79	224
		*3	14.92	14.85	14.99	265
		4	16.10	16.03	16.17	387
		5	17.13	17.06	17.20	210
Aroclor 1254	100	*1	16.40	16.33	16.47	357
		*2	16.63	16.56	16.70	416
		*3	18.54	18.47	18.61	435
		4	14.92	14.85	14.99	84
		5	19.49	19.42	19.56	218
Aroclor 1260	100	*1	18.52	18.45	18.59	186
		*2	19.18	19.11	19.25	415
		*3	21.06	20.99	21.13	362
		4	21.19	21.12	21.26	303
		5	22.97	22.90	23.04	668

* Denotes required peaks

FORM VI LCP-3

6LCF

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Instrument ID:GC2 HP5890 Date Analyzed:04/30/92

GC Column: DB1701 ID:0.53(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	TO	CALIBRATION FACTOR
Toxaphene	500	*1	15.45	15.38	15.52	86
		*2	17.96	17.89	18.03	256
		*3	18.41	18.34	18.48	139
		4	18.49	18.42	18.56	111
		5	19.39	19.32	19.46	114
Aroclor 1016	100	*1	7.89	7.82	7.96	348
		*2	9.31	9.24	9.38	572
		*3	9.75	9.68	9.82	241
		4	10.50	10.43	10.57	412
		5	11.29	11.22	11.36	241
Aroclor 1221	200	*1	5.59	5.52	5.66	27
		*2	6.04	5.97	6.11	94
		*3	6.66	6.59	6.73	232
		4	8.24	8.17	8.31	26
		5	9.30	9.23	9.37	35
Aroclor 1232	100	*1	7.89	7.82	7.96	222
		*2	9.30	9.23	9.37	347
		*3	10.49	10.42	10.56	262
		4	11.28	11.21	11.35	165
		5	11.60	11.53	11.67	156

* Denotes required peaks

FORM VI LCP-3

6LCF

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Instrument ID:GC2 HP5890 Date Analyzed:04/30/92

GC Column: DB1701 ID:0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	TO	CALIBRATION FACTOR
Aroclor 1242	100	*1	10.50	10.43	10.57	324
		*2	11.29	11.22	11.36	200
		*3	11.60	11.53	11.67	243
		4	12.65	12.58	12.72	320
		5	13.40	13.33	13.47	153
Aroclor 1248	100	*1	9.31	9.24	9.38	364
		*2	10.50	10.43	10.57	495
		*3	11.29	11.22	11.36	291
		4	11.60	11.53	11.67	269
		5	12.64	12.57	12.71	552
Aroclor 1254	100	*1	13.25	13.18	13.32	167
		*2	14.11	14.04	14.18	109
		*3	14.37	14.30	14.44	258
		4	14.75	14.68	14.82	410
		5	15.56	15.49	15.63	219
Aroclor 1260	100	*1	16.07	16.00	16.14	373
		*2	16.44	16.37	16.51	202
		*3	17.44	17.37	17.51	287
		4	17.57	17.50	17.64	736
		5	18.42	18.35	18.49	240

* Denotes required peaks

FORM VI LCP-3

6LCG

LOW CONC. WATER PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.: 6702HQ SDG No.:2900

GC Column (1): DB1701 ID: 0.53(mm) Instrument ID (1): GC2 HP5890

Sample No.: (Standard 1):RESC01 Lab Sample ID (1):RESC01

Date Analyzed (1): 4/30/92 Time Analyzed (1):11:54

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	5.08	100
gamma-Chlordane	13.87	100
Endosulfan I	13.58	100
4,4'-DDE	14.50	100
Dieldrin	14.80	100
Endosulfan sulfate	19.67	100
Methoxychlor	19.92	100
Endrin ketone	20.83	100
Decachlorobiphenyl	23.92	

GC Column (2): DB608 ID: 0.53(mm) Instrument ID (2): GC2 HP5890

Sample No. (Standard 2):RESC01 Lab Sample ID (2):RESC01

Date Analyzed (2): 4/30/92 Time Analyzed (2):11:13

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	7.16	100
gamma-Chlordane	16.35	100
Endosulfan I	17.03	100
4,4'-DDE	18.00	80
Dieldrin	18.17	100
Endosulfan sulfate	21.85	100
Methoxychlor	24.35	100
Endrin ketone	24.60	100
Decachlorobiphenyl	29.36	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): Date Analyzed:

Lab Sample ID (PIBLK): Time Analyzed:

EPA Sample No. (PEM): PEM01 Date Analyzed: 4/30/92

Lab Sample ID (PEM): PEM01 Time Analyzed: 1154

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.73	9.68	9.78	10.13	10.0	1.30
beta-BHC	11.52	11.46	11.56	11.21	10.0	12.09
gamma-BHC (Lindane)	11.21	11.13	11.27	9.07	10.0	9.31
Endrin	19.50	19.43	19.57	54.23	50.0	8.47
4,4'-DDT	21.12	21.04	21.18	111.32	100	11.32
Methoxychlor	24.35	24.27	24.41	278.24	250	11.30

4,4'-DDT % breakdown (1): 1.3 Endrin % breakdown 13.8

Combined % breakdown: 15.2

RPD of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 20.0%
Endrin breakdown must be less than or equal to 20.0%
Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK01 Date Analyzed: 5/1/92

Lab Sample ID (PIBLK): PIBLK01 Time Analyzed: 1542

EPA Sample No. (PEM): PEM02 Date Analyzed: 5/1/92

Lab Sample ID (PEM): PEM02 Time Analyzed: 1622

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.72	9.68	9.78	10.03	10.0	0.30
beta-BHC	11.50	11.46	11.56	11.09	10.0	10.89
gamma-BHC (Lindane)	11.19	11.13	11.27	9.03	10.0	9.74
Endrin	19.49	19.43	19.57	52.68	50.0	5.37
4,4'-DDT	21.10	21.04	21.18	107.04	100	7.04
Methoxychlor	24.33	24.27	24.41	237.74	250	4.91

4,4'-DDT % breakdown (1): 1.5 Endrin % breakdown 11.5

Combined % breakdown: 13.0

RPD of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 20.0%
Endrin breakdown must be less than or equal to 20.0%
Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK02 Date Analyzed: 5/1/92

Lab Sample ID (PIBLK): PIBLK02 Time Analyzed: 2346

EPA Sample No. (PEM): PEM03 Date Analyzed: 5/2/92

Lab Sample ID (PEM): PEM03 Time Analyzed: 0750

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.73	9.68	9.78	10.76	10.0	7.63
beta-BHC	11.52	11.46	11.56	11.57	10.0	15.70
gamma-BHC (Lindane)	11.21	11.13	11.27	9.69	10.0	3.11
Endrin	19.50	19.43	19.57	55.76	50.0	11.52
4,4'-DDT	21.12	21.04	21.18	112.19	100	12.19
Methoxychlor	24.35	24.27	24.41	265.80	250	6.32

4,4'-DDT % breakdown (1): 2.3 Endrin % breakdown 12.6

Combined % breakdown: 14.9

RPD of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 20.0%
Endrin breakdown must be less than or equal to 20.0%
Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK04 Date Analyzed: 5/2/92

Lab Sample ID (PIBLK): PIBLK04 Time Analyzed: 1554

EPA Sample No. (PEM): PEM01 Date Analyzed: 4/30/92

Lab Sample ID (PEM): PEM01 Time Analyzed: 1234

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.67	7.61	7.71	9.78	10.0	2.22
beta-BHC	11.64	11.58	11.68	11.98	10.0	19.79
gamma-BHC (Lindane)	8.93	8.85	8.99	8.70	10.0	12.96
Endrin	15.46	15.39	15.53	54.54	50.0	9.07
4,4'-DDT	17.69	17.61	17.75	100.21	100	0.21
Methoxychlor	19.91	19.84	19.98	294.12	250	17.65

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown 14.6

Combined % breakdown: 14.6

RPD of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 20.0%
Endrin breakdown must be less than or equal to 20.0%
Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK01 Date Analyzed: 5/1/92

Lab Sample ID (PIBLK): PIBLK01 Time Analyzed: 1622

EPA Sample No. (PEM): PEM02 Date Analyzed: 5/1/92

Lab Sample ID (PEM): PEM02 Time Analyzed: 1702

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.66	7.61	7.71	9.40	10.0	5.99
beta-BHC	11.62	11.58	11.68	10.98	10.0	9.83
gamma-BHC (Lindane)	8.92	8.85	8.99	8.38	10.0	16.16
Endrin	15.45	15.39	15.53	51.72	50.0	3.44
4,4'-DDT	17.68	17.61	17.75	115.51	100	15.51
Methoxychlor	19.90	19.84	19.98	300.99	250	20.40

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown 16.3

Combined % breakdown: 16.3

RPD of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 20.0%
Endrin breakdown must be less than or equal to 20.0%
Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK02 Date Analyzed: 5/2/92

Lab Sample ID (PIBLK): PIBLK02 Time Analyzed: 0027

EPA Sample No. (PEM): PEM03 Date Analyzed: 5/2/92

Lab Sample ID (PEM): PEM03 Time Analyzed: 0830

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.66	7.61	7.71	9.52	10.0	4.82
beta-BHC	11.63	11.58	11.68	10.85	10.0	8.50
gamma-BHC (Lindane)	8.92	8.85	8.99	8.50	10.0	15.00
Endrin	15.46	15.39	15.53	51.95	50.0	3.89
4,4'-DDT	17.69	17.61	17.75	104.15	100	4.15
Methoxychlor	19.91	19.84	19.98	248.11	250	0.76

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown 18.9

Combined % breakdown: 18.9

RPD of amounts in PEM must be less than or equal to 25.0%
4,4'-DDT breakdown must be less than or equal to 20.0%
Endrin breakdown must be less than or equal to 20.0%
Combined breakdown must be less than or equal to 30.0%

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK02 Date Analyzed: 5/1/92
Lab Sample ID (PIBLK): PIBLK02 Time Analyzed: 2346
EPA Sample No. (INDA): INDAM02 Date Analyzed: 5/2/92
Lab Sample ID (INDA): CCALA4X01 Time Analyzed: 0026

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.73	9.68	9.78	21.87	20.00	9.34
gamma-BHC (Lindane)	11.21	11.13	11.27	21.92	20.00	9.61
Heptachlor	12.39	12.34	12.44	21.58	20.00	7.88
Endosulfan I	17.03	16.95	17.09	22.28	20.00	11.38
Dieldrin	18.17	18.09	18.23	45.72	40.00	14.31
Endrin	19.50	19.43	19.57	41.84	40.00	4.60
4,4'-DDD	20.04	19.97	20.11	43.09	40.00	7.73
4,4'-DDT	21.12	21.04	21.18	41.26	40.00	3.16
Methoxychlor	24.34	24.27	24.41	207.58	200.00	3.79
Tetrachloro-m-xylene	7.16	7.11	7.21	21.37	20.00	6.83
Decachlorobiphenyl	29.36	29.25	29.45	43.02	40.00	7.55

EPA Sample No. (INDB): INDBM02 Date Analyzed: 5/2/92
Lab Sample ID (INDB): CCALB4X01 Time Analyzed: 0107

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	11.51	11.46	11.56	19.98	20.00	0.11
delta-BHC	12.88	12.83	12.93	19.91	20.00	0.43
Aldrin	13.60	13.55	13.65	21.21	20.00	6.06
Heptachlor epoxide	15.74	15.67	15.81	20.52	20.00	2.61
4,4'-DDE	17.99	17.91	18.05	38.62	40.00	3.44
Endosulfan II	20.18	20.11	20.25	39.41	40.00	1.47
Endosulfan sulfate	21.84	21.77	21.91	38.73	40.00	3.17
Endrin ketone	24.58	24.51	24.65	38.89	40.00	2.78
Endrin Aldehyde	21.40	21.33	21.47	39.34	40.00	1.64
alpha-Chlordane	16.95	16.88	17.02	20.57	20.00	2.86
gamma-Chlordane	16.34	16.27	16.41	20.31	20.00	1.54
Tetrachloro-m-xylene	7.16	7.11	7.21	20.43	20.00	2.13
Decachlorobiphenyl	29.35	29.25	29.45	38.93	40.00	2.69

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK04 Date Analyzed: 5/2/92
Lab Sample ID (PIBLK): PIBLK04 Time Analyzed: 1554
EPA Sample No. (INDA): INDAM03 Date Analyzed: 5/2/92
Lab Sample ID (INDA): CCALA4X03 Time Analyzed: 1634

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.74	9.68	9.78	21.01	20.00	5.07
gamma-BHC (Lindane)	11.22	11.13	11.27	21.15	20.00	5.73
Heptachlor	12.40	12.34	12.44	20.59	20.00	2.97
Endosulfan I	17.04	16.95	17.09	21.30	20.00	6.49
Dieldrin	18.18	18.09	18.23	43.50	40.00	8.74
Endrin	19.51	19.43	19.57	39.36	40.00	1.60
4,4'-DDD	20.05	19.97	20.11	36.41	40.00	8.96
4,4'-DDT	21.13	21.04	21.18	37.36	40.00	6.60
Methoxychlor	24.36	24.27	24.41	178.19	200.00	10.91
Tetrachloro-m-xylene	7.17	7.11	7.21	20.99	20.00	4.94
Decachlorobiphenyl	29.37	29.25	29.45	41.88	40.00	4.71

EPA Sample No. (INDB): INDBM03 Date Analyzed: 5/2/92
Lab Sample ID (INDB): CCALB4X03 Time Analyzed: 1714

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	11.52	11.46	11.56	18.22	20.00	8.89
delta-BHC	12.90	12.83	12.93	17.65	20.00	11.77
Aldrin	13.62	13.55	13.65	20.58	20.00	2.92
Heptachlor epoxide	15.76	15.67	15.81	19.77	20.00	1.14
4,4'-DDE	18.00	17.91	18.05	33.60	40.00	16.01
Endosulfan II	20.20	20.11	20.25	35.91	40.00	10.22
Endosulfan sulfate	21.86	21.77	21.91	34.37	40.00	14.08
Endrin ketone	24.60	24.51	24.65	34.59	40.00	13.53
Endrin Aldehyde	21.41	21.33	21.47	35.68	40.00	10.81
alpha-Chlordane	16.97	16.88	17.02	19.65	20.00	1.76
gamma-Chlordane	16.36	16.27	16.41	19.46	20.00	2.70
Tetrachloro-m-xylene	7.17	7.11	7.21	19.73	20.00	1.36
Decachlorobiphenyl	29.37	29.25	29.45	36.09	40.00	9.77

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK02 Date Analyzed: 5/2/92
Lab Sample ID (PIBLK): PIBLK02 Time Analyzed: 0027
EPA Sample No. (INDA): INDAM02 Date Analyzed: 5/2/92
Lab Sample ID (INDA): CCALA4X01 Time Analyzed: 0107

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.66	7.61	7.71	20.63	20.00	3.13
gamma-BHC (Lindane)	8.92	8.85	8.99	20.78	20.00	3.92
Heptachlor	9.56	9.51	9.61	20.61	20.00	3.03
Endosulfan I	13.56	13.50	13.64	20.65	20.00	3.24
Dieldrin	14.78	14.72	14.86	41.18	40.00	2.96
Endrin	15.45	15.39	15.53	43.06	40.00	7.66
4,4'-DDD	17.16	17.10	17.24	44.73	40.00	11.82
4,4'-DDT	17.68	17.61	17.75	52.58	40.00	31.45
Methoxychlor	19.90	19.84	19.98	219.95	200.00	9.98
Tetrachloro-m-xylene	5.07	5.02	5.12	20.64	20.00	3.22
Decachlorobiphenyl	23.91	23.81	24.01	40.81	40.00	2.02

EPA Sample No. (INDB): INDBM02 Date Analyzed: 5/2/92
Lab Sample ID (INDB): CCALB4X01 Time Analyzed: 0147

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	11.62	11.58	11.68	20.37	20.00	1.87
delta-BHC	12.25	12.21	12.31	20.55	20.00	2.73
Aldrin	10.38	10.33	10.43	20.19	20.00	0.95
Heptachlor epoxide	12.72	12.65	12.79	20.40	20.00	2.00
4,4'-DDE	14.49	14.43	14.57	39.46	40.00	1.36
Endosulfan II	17.13	17.07	17.21	41.53	40.00	3.84
Endosulfan sulfate	19.65	19.59	19.73	41.13	40.00	2.83
Endrin ketone	20.81	20.75	20.89	41.47	40.00	3.69
Endrin Aldehyde	18.55	18.49	18.63	41.11	40.00	2.78
alpha-Chlordane	14.08	14.01	14.15	20.35	20.00	1.75
gamma-Chlordane	13.86	13.79	13.93	20.62	20.00	3.09
Tetrachloro-m-xylene	5.07	5.02	5.12	20.36	20.00	1.78
Decachlorobiphenyl	23.90	23.81	24.01	41.22	40.00	3.05

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92

EPA Sample No. (PIBLK): PIBLK04 Date Analyzed: 5/2/92
Lab Sample ID (PIBLK): PIBLK04 Time Analyzed: 1634
EPA Sample No. (INDA): INDAM03 Date Analyzed: 5/2/92
Lab Sample ID (INDA): CCALA4X03 Time Analyzed: 1714

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	7.66	7.61	7.71	20.33	20.00	1.64
gamma-BHC (Lindane)	8.92	8.85	8.99	20.56	20.00	2.81
Heptachlor	9.56	9.51	9.61	20.44	20.00	2.21
Endosulfan I	13.58	13.50	13.64	20.61	20.00	3.05
Dieldrin	14.79	14.72	14.86	41.41	40.00	3.53
Endrin	15.46	15.39	15.53	41.51	40.00	3.78
4,4'-DDD	17.17	17.10	17.24	38.87	40.00	2.83
4,4'-DDT	17.69	17.61	17.75	48.91	40.00	22.27
Methoxychlor	19.91	19.84	19.98	197.03	200.00	1.48
Tetrachloro-m-xylene	5.08	5.02	5.12	20.33	20.00	1.64
Decachlorobiphenyl	23.92	23.81	24.01	40.83	40.00	2.08

EPA Sample No. (INDB): INDBM03 Date Analyzed: 5/2/92
Lab Sample ID (INDB): CCALB4X03 Time Analyzed: 1755

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	11.62	11.58	11.68	18.69	20.00	6.56
delta-BHC	12.26	12.21	12.31	18.79	20.00	6.07
Aldrin	10.39	10.33	10.43	19.75	20.00	1.23
Heptachlor epoxide	12.72	12.65	12.79	19.72	20.00	1.39
4,4'-DDE	14.50	14.43	14.57	32.73	40.00	18.18
Endosulfan II	17.14	17.07	17.21	39.58	40.00	1.06
Endosulfan sulfate	19.66	19.59	19.73	38.23	40.00	4.42
Endrin ketone	20.82	20.75	20.89	40.02	40.00	0.05
Endrin Aldehyde	18.56	18.49	18.63	39.92	40.00	0.21
alpha-Chlordane	14.09	14.01	14.15	19.66	20.00	1.70
gamma-Chlordane	13.86	13.79	13.93	19.72	20.00	1.40
Tetrachloro-m-xylene	5.07	5.02	5.12	19.35	20.00	3.27
Decachlorobiphenyl	23.92	23.81	24.01	39.83	40.00	0.43

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92
Instrument ID: 2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.16 DCB: 29.35

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
001	RESC01	RESC01	4/30/92	1113	7.16		29.36	
002	PEM01	PEM01	4/30/92	1154	7.16		29.36	
003	AR1660	AR1660	4/30/92	1234	7.16		29.35	
004	AR1221	AR1221	4/30/92	1314	7.16		29.34	
005	AR1232	AR1232	4/30/92	1355	7.16		29.34	
006	AR1242	AR1242	4/30/92	1435	7.16		29.35	
007	AR1248	AR1248	4/30/92	1516	7.16		29.35	
008	AR1254	AR125401	4/30/92	1556	7.16		29.35	
009	TOXAPH	TOXAPHENE	4/30/92	1636	5.07	*	0.00	*
010	T. CHLORDANE	T.CHLORDANE	4/30/92	1717	0.00	*	0.00	*
011	INDAL01	INDA1X	4/30/92	1757	7.16		29.35	
012	INDBL01	INDB1X	4/30/92	1837	7.16		29.35	
013	INDAM01	INDA4X	4/30/92	2038	7.16		29.35	
014	INDBM01	INDB4X	4/30/92	2119	7.16		29.34	
015	INDAH01	INDA16X	4/30/92	2320	7.16		29.34	
016	INDBH01	INDB16X	5/1/92	0000	7.16		29.34	
017	PIBLK01	PIBLK01	5/1/92	1542	7.15		29.33	
018	PEM02	PEM02	5/1/92	1622	0.00	*	0.00	*
019	EBW0427A	EBW0427A	5/1/92	1702	7.16		29.34	
020	EBW0427B	EBW0427B	5/1/92	1743	7.16		29.34	
021	LCSW0427A	LCSW0427A	5/1/92	1823	7.16		29.35	
022	LCSW0427B	LCSW0427B	5/1/92	1903	7.16		29.35	
023	PR861	2888-03	5/1/92	1944	7.17		29.35	
024	PP127	2889-03	5/1/92	2024	7.17		29.36	
025	EMZ88	2902-01	5/1/92	2105	7.17		29.36	
026	EMZ89	2902-02	5/1/92	2145	7.16		29.35	
027	EMZ92	2902-03	5/1/92	2225	7.16		29.35	
028	EMZ94	2902-04	5/1/92	2306	7.17		29.36	
029	PIBLK02	PIBLK02	5/1/92	2346	7.17		29.36	
030	INDAM02	CCALA4X01	5/2/92	0026	7.16		29.36	
031	INDBM02	CCALB4X01	5/2/92	0107	7.16		29.35	
032	EMZ95	2902-05	5/2/92	0147	7.16		29.34	

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)
# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB608 (mm) Init Calib. Date(s): 4/30/92
Instrument ID: 2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.16 DCB: 29.35

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
033	EMZ83	2903-01	5/2/92	0228	7.16		29.34	
034	EMZ85	2903-02	5/2/92	0308	7.16		29.34	
035	EMZ90	2903-03	5/2/92	0348	7.16		29.34	
036	EMZ91	2903-04	5/2/92	0428	7.16		29.33	
037	EMZ86	2903-06	5/2/92	0509	7.16		29.34	
038	PIBLK03	PIBLK03	5/2/92	0710	7.16		29.35	
039	PEM03	PEM03	5/2/92	0750	0.00	*	0.00	*
040	EBW0430	EBW0430	5/2/92	0830	7.17		29.37	
041	LCSW0430B	LCSW0430B	5/2/92	0951	7.18		29.38	
042	PR886	2900-03	5/2/92	1031	7.18		29.38	
043	EQK20	2906-01	5/2/92	1112	7.18		29.38	
044	EQK21	2906-02	5/2/92	1152	7.18		29.37	
045	EQK22	2906-03	5/2/92	1232	7.18		29.38	
046	EQK23	2906-04	5/2/92	1312	7.17		29.37	
047	EQK24	2906-05	5/2/92	1353	7.17		29.37	
048	EQK25	2906-06	5/2/92	1433	7.17		29.37	
049	PIBLK04	PIBLK04	5/2/92	1554	7.17		29.37	
050	INDAM03	CCALA4X03	5/2/92	1634	7.17		29.37	
051	INDBM03	CCALB4X03	5/2/92	1714	7.17		29.37	
052	EBW0428	EBW0428	5/5/92	0503	7.16		29.36	
053	LCSW0428	LCSW0428	5/5/92	0543	7.16		29.36	
054	1061-EB	2904-18	5/5/92	0624	7.16		29.36	
055	1047	2904-17	5/5/92	0704	0.00	*	29.33	
056	1017-FD	2904-15	5/5/92	0825	0.00	*	0.00	*
057	1017	2904-14	5/5/92	1227	0.00	*	0.00	*
058	1003	2904-13	5/5/92	1347	0.00	*	0.00	*
059	1031	2904-16	5/6/92	2042	0.00	*	29.37	
060								
061								
062								
063								
064								

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)
# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92
Instrument ID: 2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.07 DCB: 23.91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
001	RESC01	RESC01	4/30/92	1154	5.08		23.92	
002	PEM01	PEM01	4/30/92	1234	5.07		23.92	
003	AR1660	AR1660	4/30/92	1315	5.07		23.91	
004	AR1221	AR1221	4/30/92	1355	5.07		23.91	
005	AR1232	AR1232	4/30/92	1435	5.07		23.91	
006	AR1242	AR1242	4/30/92	1516	5.07		23.92	
007	AR1248	AR1248	4/30/92	1556	5.07		23.92	
008	AR1254	AR125401	4/30/92	1636	5.07		23.91	
009	TOXAPHENE	TOXAPHENE	4/30/92	1717	5.08		0.00	*
010	T. CHLORDANE	T.CHLORDANE	4/30/92	1757	5.08		0.00	*
011	INDAL01	INDA1X	4/30/92	1837	5.07		23.91	
012	INDBL01	INDB1X	4/30/92	1918	5.07		23.91	
013	INDAM01	INDA4X	4/30/92	2119	5.07		23.91	
014	INDBM01	INDB4X	4/30/92	2159	5.07		23.91	
015	INDAH01	INDA16X	5/1/92	0000	5.07		23.90	
016	INDBH01	INDB16X	5/1/92	0040	5.07		23.90	
017	PIBLK01	PIBLK01	5/1/92	1622	5.06		23.90	
018	PEM02	PEM02	5/1/92	1702	0.00	*	0.00	*
019	EBW0427A	EBW0427A	5/1/92	1743	5.07		23.91	
020	EBW0427B	EBW0427B	5/1/92	1823	5.07		23.91	
021	LCSW0427A	LCSW0427A	5/1/92	1904	5.07		23.91	
022	LCSW0427B	LCSW0427B	5/1/92	1944	5.07		23.92	
023	PR861	2888-03	5/1/92	2024	5.08		23.92	
024	PP127	2889-03	5/1/92	2105	5.08		23.92	
025	EMZ88	2902-01	5/1/92	2145	5.08		23.91	
026	EMZ89	2902-02	5/1/92	2226	5.07		23.92	
027	EMZ92	2902-03	5/1/92	2306	5.07		23.91	
028	EMZ94	2902-04	5/1/92	2346	5.07		23.91	
029	PIBLK02	PIBLK02	5/2/92	0027	5.07		23.91	
030	INDAM02	CCALA4X01	5/2/92	0107	5.07		23.91	
031	INDBM02	CCALB4X01	5/2/92	0147	5.07		23.90	
032	EMZ95	2902-05	5/2/92	0228	5.07		23.91	

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)
# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: S-CUBED Contract: 32380-02
Lab Code: S3 Case No.: 19026 SAS No.: 6702HQSDG No.: 2900
GC Column: DB1701 (mm) Init Calib. Date(s): 4/30/92
Instrument ID: 2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.07 DCB: 23.91

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
033	EMZ83	2903-01	5/2/92	0308	5.07		23.90	
034	EMZ85	2903-02	5/2/92	0348	5.06		23.90	
035	EMZ90	2903-03	5/2/92	0429	5.06		23.90	
036	EMZ91	2903-04	5/2/92	0509	5.06		23.90	
037	EMZ86	2903-06	5/2/92	0549	5.06		23.90	
038	PIBLK03	PIBLK03	5/2/92	0750	5.07		23.91	
039	PEM03	PEM03	5/2/92	0830	0.00	*	0.00	*
040	EBW0430	EBW0430	5/2/92	0911	5.08		23.92	
041	LCSW0430B	LCSW0430B	5/2/92	1031	5.08		23.92	
042	PR886	2900-03	5/2/92	1112	5.08		23.92	
043	EQK20	2906-01	5/2/92	1152	5.08		23.92	
044	EQK21	2906-02	5/2/92	1232	5.08		23.93	
045	EQK22	2906-03	5/2/92	1313	5.08		23.92	
046	EQK23	2906-04	5/2/92	1353	5.08		23.92	
047	EQK24	2906-05	5/2/92	1433	5.08		23.92	
048	EQK25	2906-06	5/2/92	1513	5.08		23.92	
049	PIBLK04	PIBLK04	5/2/92	1634	5.08		23.92	
050	INDAM03	CCALA4X03	5/2/92	1714	5.08		23.92	
051	INDBM03	CCALB4X03	5/2/92	1755	5.07		23.92	
052	EBW0428	EBW0428	5/5/92	0544	5.07		23.91	
053	LCSW0428	LCSW0428	5/5/92	0624	5.07		23.91	
054	1061-EB	2904-18	5/5/92	0704	5.07		23.91	
055	1047	2904-17	5/5/92	0744	5.12		23.91	
056	1017-FD	2904-15	5/5/92	0905	0.00	*	23.91	
057	1017	2904-14	5/5/92	1307	0.00	*	23.90	
058	1003	2904-13	5/5/92	1428	0.00	*	23.90	
059	1031	2904-16	5/6/92	2122	5.08		23.92	
060								
061								
062								
063								
064								

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DCB = Decachlorobiphenyl (± 0.10 MINUTES)
# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

9LCA

LOW CONC. WATER PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Florisil Cartridge Lot Number:5620 Date of Analysis:04/06/92

GC Column(1): DB608 ID: 0.53 (mm) GC Column(2): DB1701 ID: 0.53(mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC#	QC LIMITS
alpha-BHC	53	45.9	87	80-120
gamma-BHC	53	43.2	82	80-120
Heptachlor	54	49.1	91	80-120
Endosulfan I	51	53.7	106	80-120
Dieldrin	116	102	88	80-120
Endrin	147	125	85	80-120
4,4'-DDD	127	116	91	80-120
4,4'-DDT	129	118	91	80-120
Methoxychlor	632	608	96	80-120
Tetrachloro-m-xylene	108	98.1	91	80-120
Decachlorobiphenyl	113	111	98	80-120

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits.

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND LCS:

SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
EBW0430	EBW0430	05/02/92	05/02/92
LCSW0430A	LCSW0430A	05/02/92	05/02/92
LCSW0430B	LCSW0430B	05/02/92	05/02/92
PR886	2900-03	05/02/92	05/02/92
EQK20	2906-01	05/02/92	05/02/92
EQK21	2906-02	05/02/92	05/02/92
EQK22	2906-03	05/02/92	05/02/92
EQK23	2906-04	05/02/92	05/02/92
EQK24	2906-05	05/02/92	05/02/92
EQK25	2906-06	05/02/92	05/02/92

FORM IX LCP

PR886

10LCA
LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name: S-CUBED

Contract: 32380-02

Lab Code: S3 Case No.:19026

SAS No.:6702HQ SDG No.:2900

Lab Sample ID:2900-03

Date(s) Analyzed:05/02/92

Instrument ID (1):GC2 HP5890

Instrument ID (2):GC2 HP5890

GC Column (1): DB608 ID: 0.53(mm)

GC Column (2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
A-BHC	1	9.74	9.68	9.78	0.012	0.0
	2	7.67	7.61	7.71	0.012	
B-BHC	1	11.53	11.46	11.56	0.017	88.2
	2	11.63	11.58	11.68	0.032	
Aldrin	1	13.62	13.55	13.65	0.042	5.0
	2	10.40	10.33	10.43	0.040	
Hept. Epoxide	1	15.76	15.67	15.81	0.076	9.2
	2	12.73	12.65	12.79	0.083	
Endosulfan I	1	17.04	16.95	17.09	0.101	5.2
	2	13.58	13.50	13.64	0.096	
Endrin	1	19.52	19.43	19.57	0.045	21.6
	2	15.47	15.39	15.53	0.037	
AR1254	1	14.94	14.87	15.01	0.630	196
	2	13.26	13.19	13.33	0.230	
	1					
	2					
	1					
	2					

FORM X LCP-1

PR886

10B
WATER PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

Lab Name: S-CUBED Contract:32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Lab Sample ID:2889-03 Date(s) Analyzed:05/02/92

Instrument ID (1):GC2 HP5890 Instrument ID (2):GC2 HP5890

GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONC.	MEAN CONC.	%D
AR1254	*1	14.94	14.87	15.01	1.48	0.63	196
COLUMN 1	*2	16.42	16.35	14.49	0.24		
	*3	16.65	16.58	16.72	0.23		
	4	18.55	18.48	18.62	0.23		
	5	19.52	19.45	19.59	0.98		
COLUMN 2	*1	13.26	13.19	13.33	0.22	0.23	
	*2	14.12	14.05	14.19	0.28		
	*3	14.38	14.31	14.45	0.16		
	4	14.76	14.69	14.83	0.29		
	5	15.56	15.45	15.63	0.22		
COLUMN 1	*1						
	*2						
	*3						
	4						
	5						
COLUMN 2	*1						
	*2						
	*3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

LCSW0430B

10LCA
LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Lab Name: S-CUBED Contract: 32380-02

Lab Code: S3 Case No.:19026 SAS No.:6702HQ SDG No.:2900

Lab Sample ID:LCSW0430B Date(s) Analyzed:05/02/92

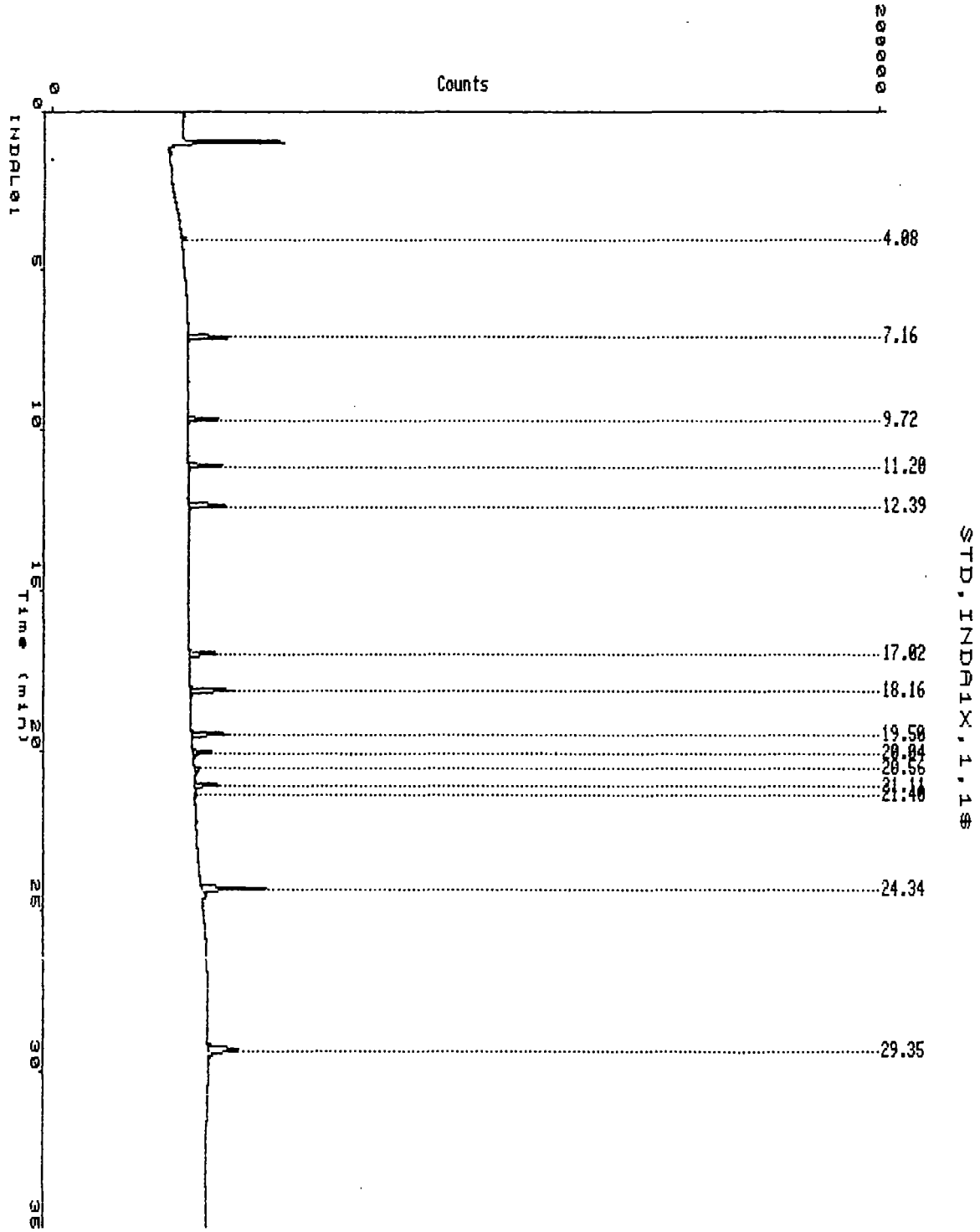
Instrument ID (1):GC2 HP5890 Instrument ID (2):GC2 HP5890

GC Column (1): DB608 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
G-BHC	1	11.22	11.15	11.25	0.089	4.5
	2	8.93	8.87	8.97	0.093	
Hept. Epoxide	1	15.76	15.67	15.81	0.088	3.4
	2	12.73	12.65	12.79	0.091	
G-Chlordane	1	16.36	16.27	16.41	0.085	9.4
	2	13.87	13.79	13.93	0.093	
DDE	1	18.00	17.91	18.05	0.173	15.0
	2	14.51	14.43	14.57	0.199	
Dieldrin	1	18.18	18.09	18.23	0.220	6.8
	2	14.80	14.72	14.86	0.206	
Endrin	1	19.52	19.43	19.57	0.187	9.6
	2	15.47	15.39	15.53	0.205	
Endo. Sulfate	1	21.86	21.78	21.92	0.189	0.0
	2	19.67	19.59	19.73	0.189	
	1					
	2					
	1					
	2					

FORM X LCP-1

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608015.RAW;2
Report: 51893
Acquired: 30-APR-1992 17:57:32
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:54:15.43
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608015.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EISMA0429.MET;9
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 17:57:32
Sample name.....INDAL01
Notes.....STD,INDA1X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDA1X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	7.155	44683	5.0000	8.937E+03		
A-BHC	9.722	35770	5.0000	7.154E+03		
G-BHC	11.201	40248	5.0000	8.050E+03		
HEPTACHLOR	12.386	48700	5.0000	9.740E+03		
ENDOSULFAN I	17.021	38121	5.0000	7.624E+03		
DIELDRIN	18.162	61973	10.000	6.197E+03		
ENDRIN	19.496	49609	10.000	4.961E+03		
DDD	20.036	28765	10.000	2.876E+03		
DDT	21.113	36716	10.000	3.672E+03		
METHOXYCHLOR	24.342	93854	50.000	1.877E+03		
DECACHLOROBIPHEN	29.347	72872	10.000	7.287E+03		

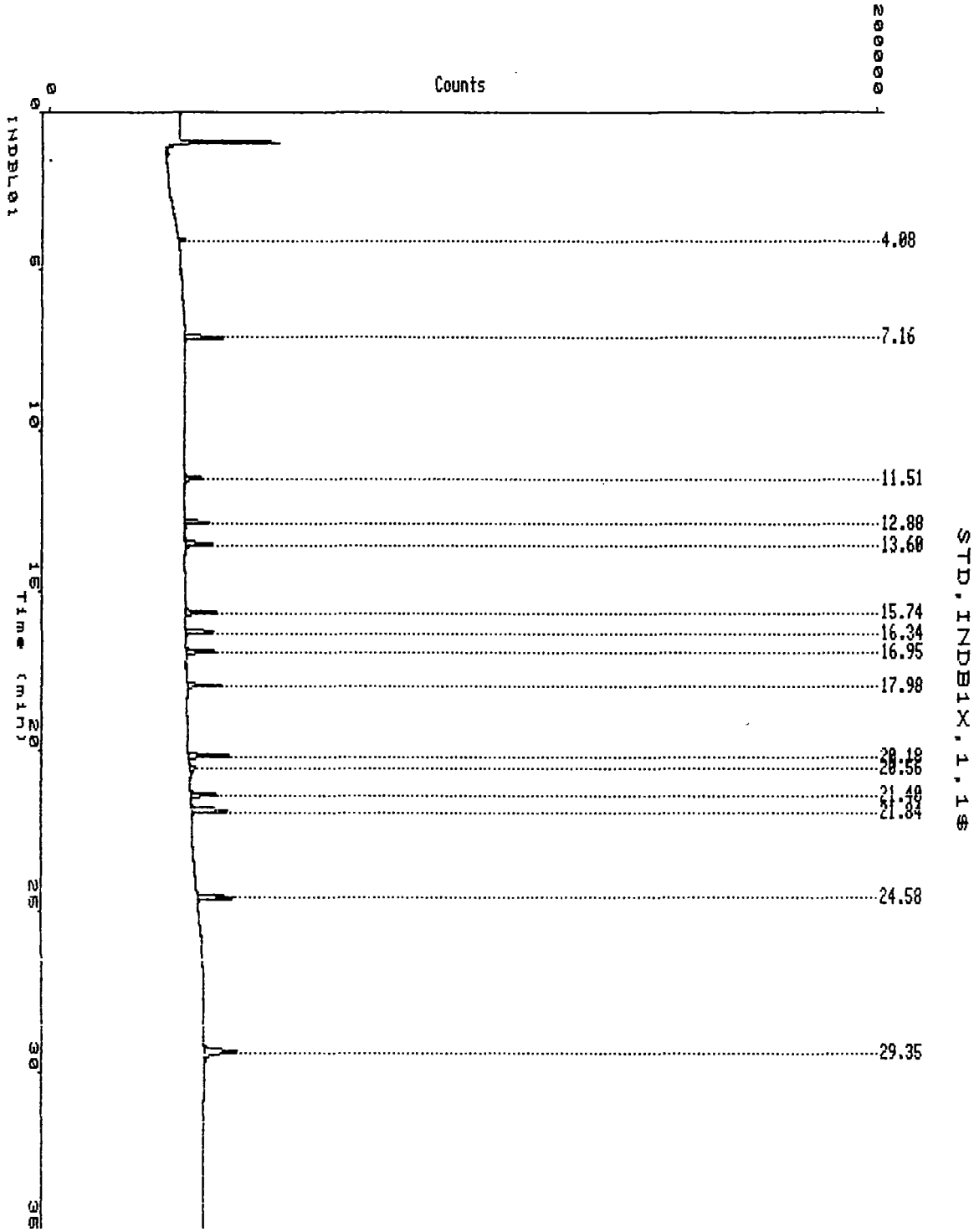
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	7.160	7.155	8.937E+03	8.937E+03		1
A-BHC	9.728	9.722	7.154E+03	7.154E+03		1
G-BHC	11.205	11.201	8.050E+03	8.050E+03		1
HEPTACHLOR	12.389	12.386	9.740E+03	9.740E+03		1
ENDOSULFAN I	17.023	17.021	7.624E+03	7.624E+03		1
DIELDRIN	18.162	18.162	6.197E+03	6.197E+03		1
ENDRIN	19.497	19.496	4.961E+03	4.961E+03		1
DDD	20.036	20.036	2.876E+03	2.876E+03		1
DDT	21.114	21.113	3.672E+03	3.672E+03		1
METHOXYCHLOR	24.340	24.342	1.877E+03	1.877E+03		1
DECACHLOROBIPHEN	29.342	29.347	7.287E+03	7.287E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608016.RAW;2
Report: 51896
Acquired: 30-APR-1992 18:37:55
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:55:50.10
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608016.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EISMB0429.MET;9
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 18:37:55
Sample name.....INDBL01
Notes.....STD,INDB1X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDB1X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	7.159	43300	5.0000	8.660E+03		
B-BHC	11.511	20776	5.0000	4.155E+03		
D-BHC	12.879	29889	5.0000	5.978E+03		
ALDRIN	13.601	38168	5.0000	7.634E+03		
HEPT.EPOX	15.740	41768	5.0000	8.354E+03		
G-CHLORDANE	16.339	38466	5.0000	7.693E+03		
A-CHLORDANE	16.948	41272	5.0000	8.254E+03		
DDE	17.982	46371	10.000	4.637E+03		
ENDOSULFAN II	20.177	56588	10.000	5.659E+03		
ENDRIN ALDEHYDE	21.397	38192	10.000	3.819E+03		
ENDO.SULFATE	21.841	50549	10.000	5.055E+03		
ENDRIN KETONE	24.583	49571	10.000	4.957E+03		
DECACHLOROBIPHEN	29.351	76657	10.000	7.666E+03		

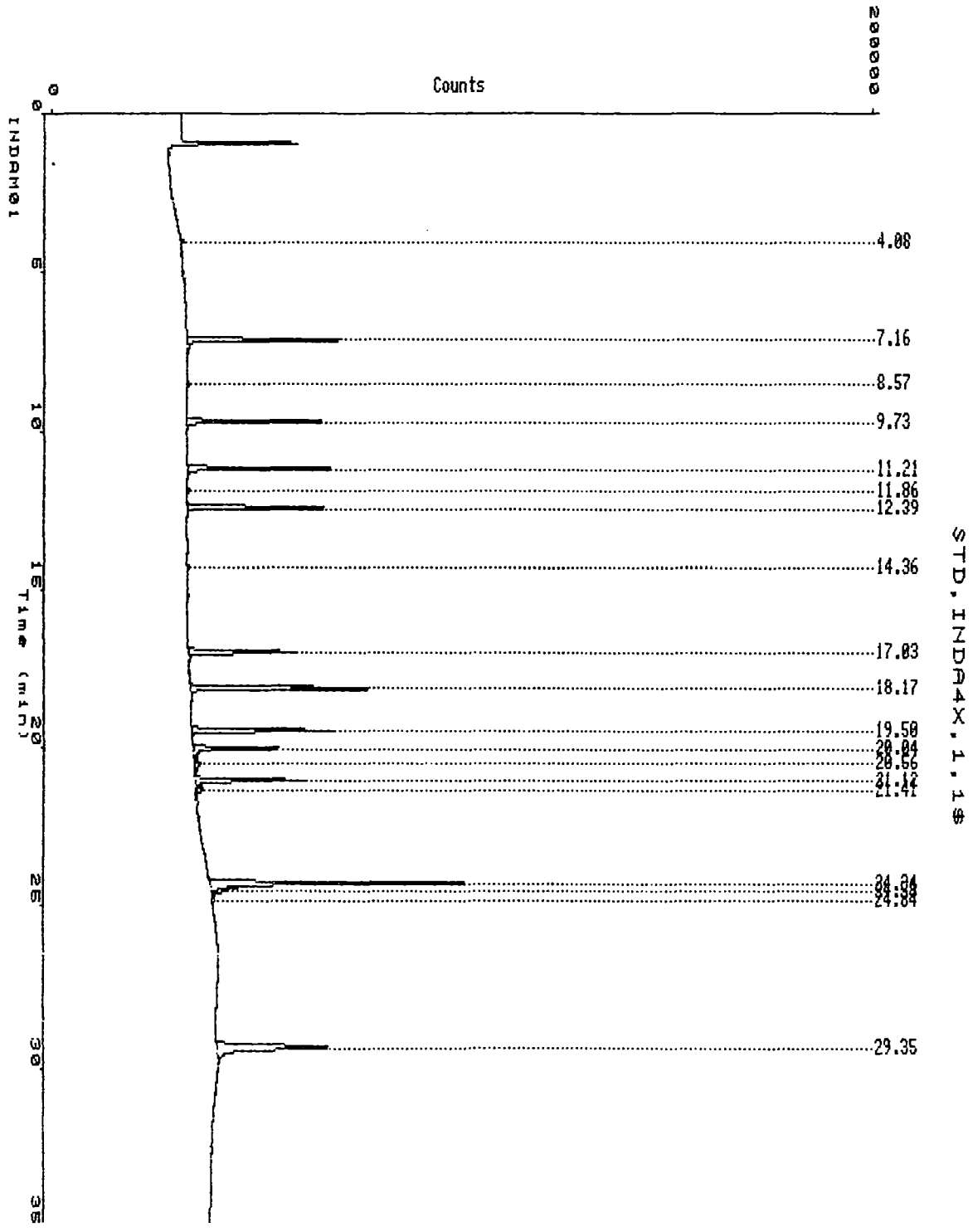
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	7.157	7.159	8.660E+03	8.660E+03		1
B-BHC	11.509	11.511	4.155E+03	4.155E+03		1
D-BHC	12.880	12.879	5.978E+03	5.978E+03		1
ALDRIN	13.601	13.601	7.634E+03	7.634E+03		1
HEPT.EPOX	15.740	15.740	8.354E+03	8.354E+03		1
G-CHLORDANE	16.339	16.339	7.693E+03	7.693E+03		1
A-CHLORDANE	16.949	16.948	8.254E+03	8.254E+03		1
DDE	17.983	17.982	4.637E+03	4.637E+03		1
ENDOSULFAN II	20.176	20.177	5.659E+03	5.659E+03		1
ENDRIN ALDEHYDE	21.395	21.397	3.819E+03	3.819E+03		1
ENDO.SULFATE	21.839	21.841	5.055E+03	5.055E+03		1
ENDRIN KETONE	24.579	24.583	4.957E+03	4.957E+03		1
DECACHLOROBIPHEN	29.339	29.351	7.666E+03	7.666E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608019.RAW;2
Report: 51902
Acquired: 30-APR-1992 20:38:56
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:00:15.53
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608019.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EISMA0429.MET;11
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 20:38:56
Sample name.....INDAM01
Notes.....STD,INDA4X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDA4X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	7.160	174582	20.000	8.729E+03		
A-BHC	9.729	152281	20.000	7.614E+03		
G-BHC	11.207	167597	20.000	8.380E+03		
HEPTACHLOR	12.393	185200	20.000	9.260E+03		
ENDOSULFAN I	17.025	147063	20.000	7.353E+03		
DIELDRIN	18.167	240847	40.000	6.021E+03		
ENDRIN	19.499	188507	40.000	4.713E+03		
DDD	20.039	129417	40.000	3.235E+03		
DDT	21.116	147634	40.000	3.691E+03		
METHOXYCHLOR	24.342	390566	200.00	1.953E+03		
DECACHLOROBIPHEN	29.349	281448	40.000	7.036E+03		

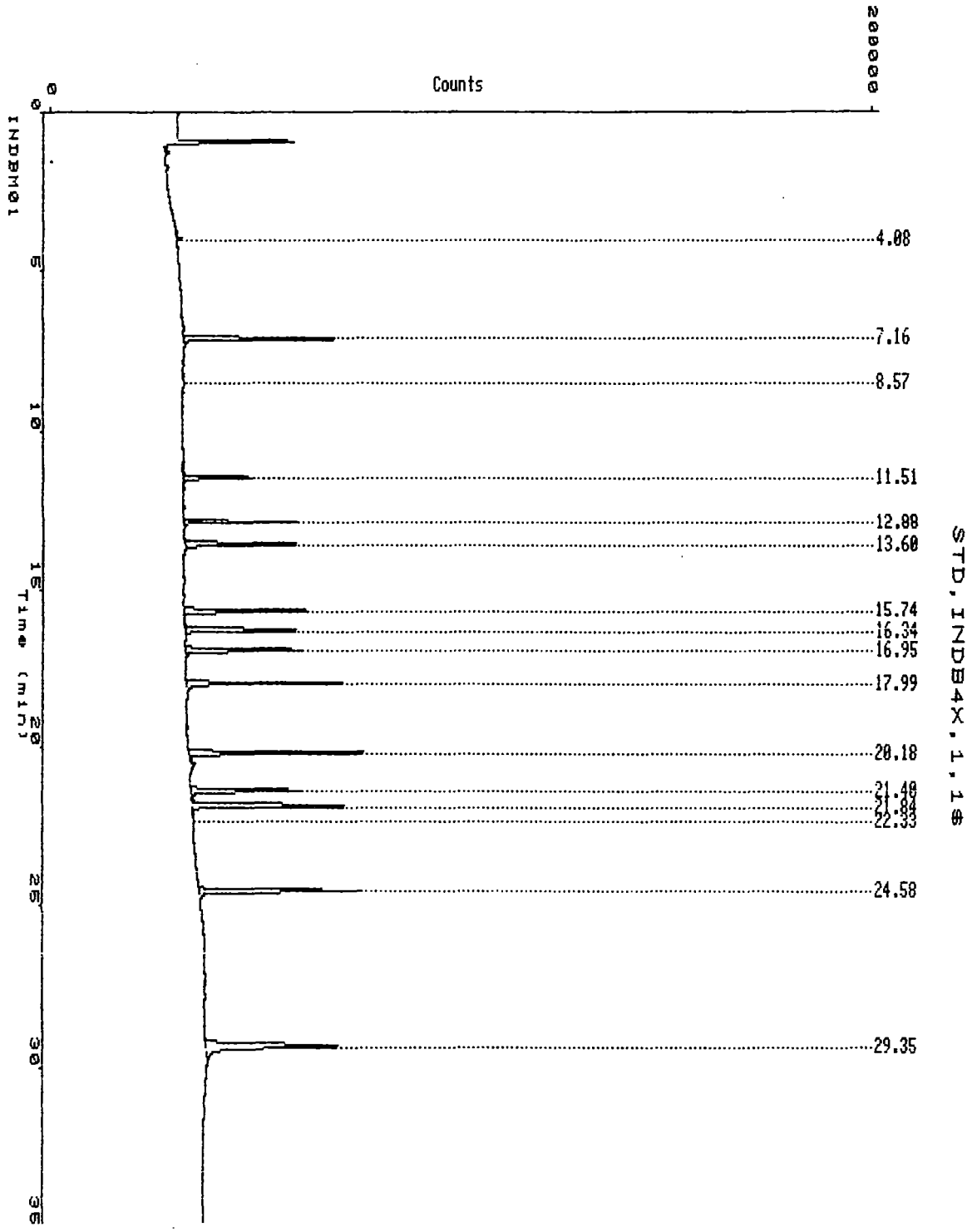
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	7.157	7.160	8.729E+03	8.729E+03		1
A-BHC	9.726	9.729	7.614E+03	7.614E+03		1
G-BHC	11.204	11.207	8.380E+03	8.380E+03		1
HEPTACHLOR	12.390	12.393	9.260E+03	9.260E+03		1
ENDOSULFAN I	17.024	17.025	7.353E+03	7.353E+03		1
DIELDRIN	18.164	18.167	6.021E+03	6.021E+03		1
ENDRIN	19.497	19.499	4.713E+03	4.713E+03		1
DDD	20.037	20.039	3.235E+03	3.235E+03		1
DDT	21.114	21.116	3.691E+03	3.691E+03		1
METHOXYCHLOR	24.342	24.342	1.953E+03	1.953E+03		1
DECACHLOROBIPHEN	29.352	29.349	7.036E+03	7.036E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608020.RAW;2
Report: 51904
Acquired: 30-APR-1992 21:19:14
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:02:07.28
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608020.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EISMB0429.MET;11
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 21:19:14
Sample name.....INDBM01
Notes.....STD,INDB4X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDB4X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	7.160	169293	20.000	8.465E+03		
B-BHC	11.512	85217	20.000	4.261E+03		
D-BHC	12.882	130463	20.000	6.523E+03		
ALDRIN	13.604	152738	20.000	7.637E+03		
HEPT.EPOX	15.743	165386	20.000	8.269E+03		
G-CHLORDANE	16.342	153332	20.000	7.667E+03		
A-CHLORDANE	16.952	162268	20.000	8.113E+03		
DDE	17.985	212509	40.000	5.313E+03		
ENDOSULFAN II	20.181	233106	40.000	5.828E+03		
ENDRIN ALDEHYDE	21.399	159323	40.000	3.983E+03		
ENDO.SULFATE	21.841	209960	40.000	5.249E+03		
ENDRIN KETONE	24.581	216720	40.000	5.418E+03		
DECACHLOROBIPHEN	29.345	319276	40.000	7.982E+03		

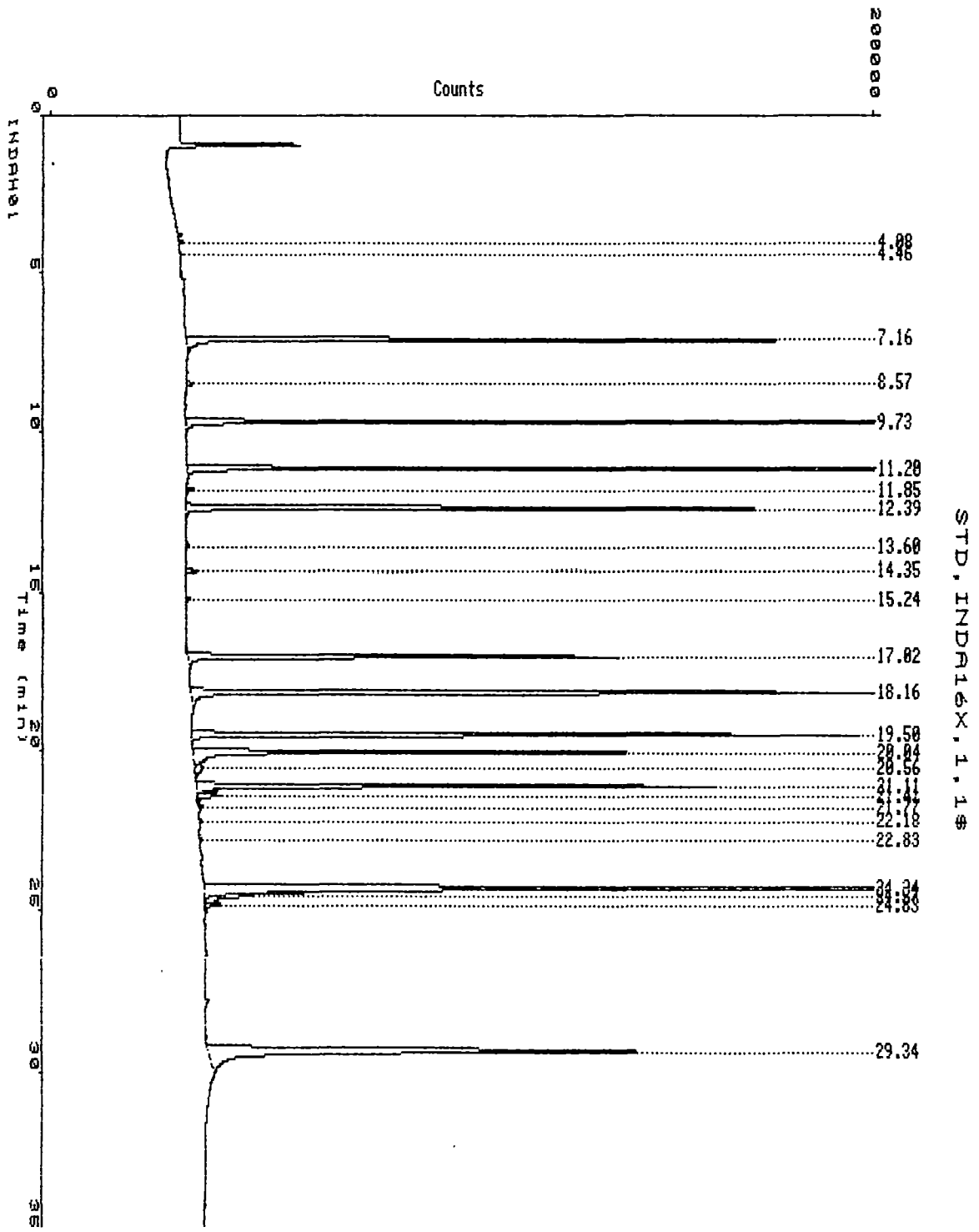
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	7.160	7.160	8.465E+03	8.465E+03		1
B-BHC	11.514	11.512	4.261E+03	4.261E+03		1
D-BHC	12.884	12.882	6.523E+03	6.523E+03		1
ALDRIN	13.605	13.604	7.637E+03	7.637E+03		1
HEPT.EPOX	15.744	15.743	8.269E+03	8.269E+03		1
G-CHLORDANE	16.343	16.342	7.667E+03	7.667E+03		1
A-CHLORDANE	16.954	16.952	8.113E+03	8.113E+03		1
DDE	17.988	17.985	5.313E+03	5.313E+03		1
ENDOSULFAN II	20.184	20.181	5.828E+03	5.828E+03		1
ENDRIN ALDEHYDE	21.401	21.399	3.983E+03	3.983E+03		1
ENDO.SULFATE	21.846	21.841	5.249E+03	5.249E+03		1
ENDRIN KETONE	24.586	24.581	5.418E+03	5.418E+03		1
DECACHLOROBIPHEN	29.352	29.345	7.982E+03	7.982E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608023.RAW;2
Report: 51910
Acquired: 30-APR-1992 23:20:16
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:06:49.69
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608023.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EISMA0429.MET;13
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 23:20:16
Sample name.....INDAH01
Notes.....STD,INDA16X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDA16X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	7.160	673552	80.000	8.419E+03		
A-BHC	9.728	755584	80.000	9.445E+03		
G-BHC	11.205	786603	80.000	9.833E+03		
HEPTACHLOR	12.389	759470	80.000	9.493E+03		
ENDOSULFAN I	17.023	601264	80.000	7.516E+03		
DIELDRIN	18.162	1094592	160.00	6.841E+03		
ENDRIN	19.497	870807	160.00	5.443E+03		
DDD	20.036	612879	160.00	3.830E+03		
DDT	21.114	699195	160.00	4.370E+03		
METHOXYCHLOR	24.340	1651469	800.00	2.064E+03		
DECACHLOROBIPHEN	29.342	1092449	160.00	6.828E+03		

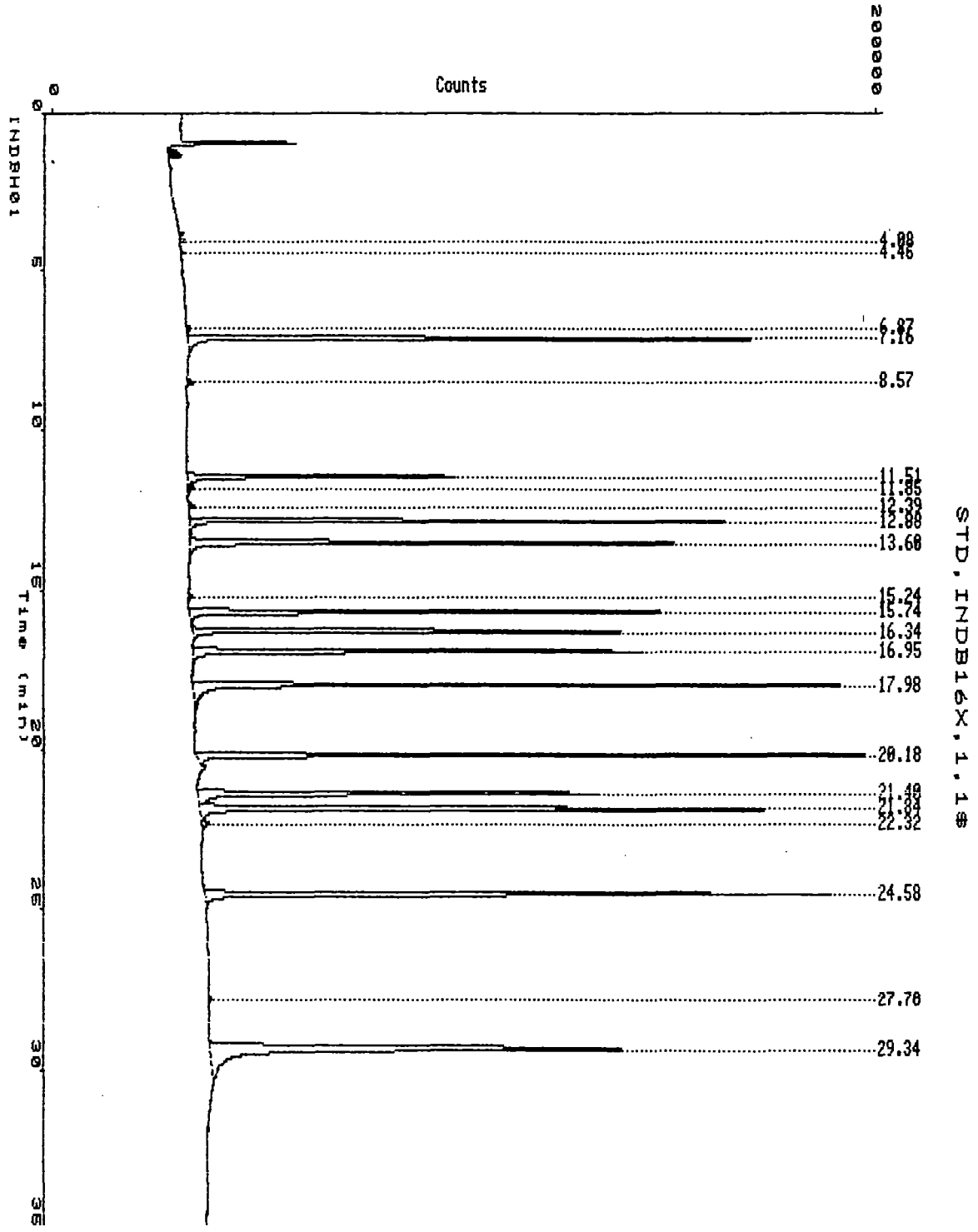
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	7.159	7.160	8.419E+03	8.419E+03		1
A-BHC	9.729	9.728	9.445E+03	9.445E+03		1
G-BHC	11.207	11.205	9.833E+03	9.833E+03		1
HEPTACHLOR	12.392	12.389	9.493E+03	9.493E+03		1
ENDOSULFAN I	17.024	17.023	7.516E+03	7.516E+03		1
DIELDRIN	18.163	18.162	6.841E+03	6.841E+03		1
ENDRIN	19.497	19.497	5.443E+03	5.443E+03		1
DDD	20.038	20.036	3.830E+03	3.830E+03		1
DDT	21.115	21.114	4.370E+03	4.370E+03		1
METHOXYCHLOR	24.342	24.340	2.064E+03	2.064E+03		1
DECACHLOROBIPHEN	29.351	29.342	6.828E+03	6.828E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608024.RAW;2
Report: 51914
Acquired: 1-MAY-1992 00:00:32
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:09:16.82
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608024.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EISMB0429.MET;13
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 1-MAY-1992 00:00:32
Sample name.....INDBH01
Notes.....STD,INDB16X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDB16X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	7.157	651969	80.000	8.150E+03		
B-BHC	11.509	331810	80.000	4.148E+03		
D-BHC	12.880	614470	80.000	7.681E+03		
ALDRIN	13.601	672489	80.000	8.406E+03		
HEPT.EPOX	15.740	655038	80.000	8.188E+03		
G-CHLORDANE	16.339	590566	80.000	7.382E+03		
A-CHLORDANE	16.949	638597	80.000	7.982E+03		
DDE	17.983	894200	160.00	5.589E+03		
ENDOSULFAN II	20.176	903806	160.00	5.649E+03		
ENDRIN ALDEHYDE	21.395	591167	160.00	3.695E+03		
ENDO.SULFATE	21.839	806265	160.00	5.039E+03		
ENDRIN KETONE	24.579	878124	160.00	5.488E+03		
DECACHLOROBIPHEN	29.339	1151768	160.00	7.199E+03		

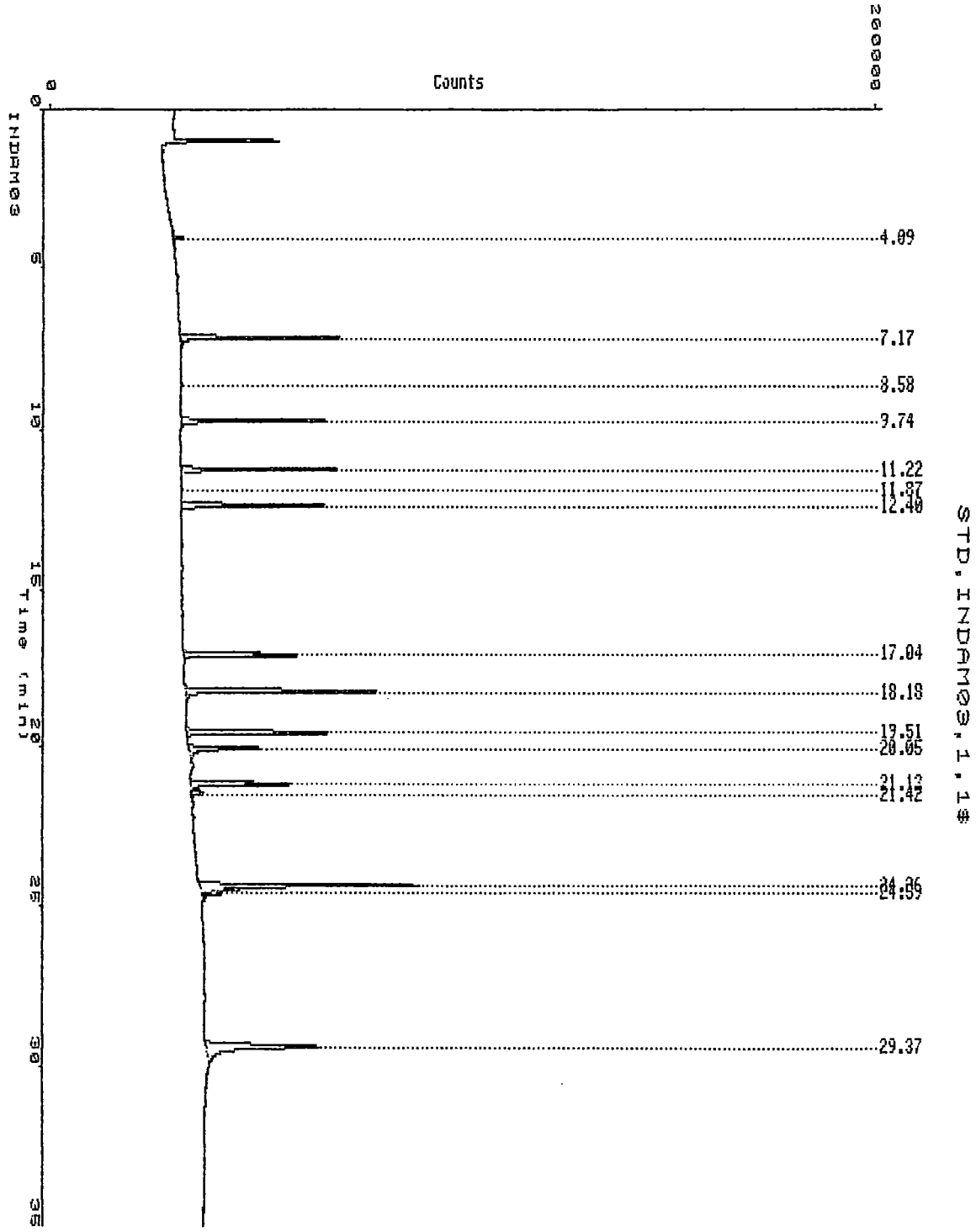
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	7.162	7.157	8.150E+03	8.150E+03		1
B-BHC	11.513	11.509	4.148E+03	4.148E+03		1
D-BHC	12.882	12.880	7.681E+03	7.681E+03		1
ALDRIN	13.604	13.601	8.406E+03	8.406E+03		1
HEPT.EPOX	15.742	15.740	8.188E+03	8.188E+03		1
G-CHLORDANE	16.342	16.339	7.382E+03	7.382E+03		1
A-CHLORDANE	16.951	16.949	7.982E+03	7.982E+03		1
DDE	17.985	17.983	5.589E+03	5.589E+03		1
ENDOSULFAN II	20.180	20.176	5.649E+03	5.649E+03		1
ENDRIN ALDEHYDE	21.400	21.395	3.695E+03	3.695E+03		1
ENDO.SULFATE	21.843	21.839	5.039E+03	5.039E+03		1
ENDRIN KETONE	24.586	24.579	5.488E+03	5.488E+03		1
DECACHLOROBIPHEN	29.351	29.339	7.199E+03	7.199E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2D8608039.RAW;1
Report: 51074
Acquired: 2-MAY-1992 16:34:24
Time range: 0.00-35.00



Date..... 2-MAY-1992 17:10:02.64
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608039.RAW;1
Method file.....NAI$DIR:[DATA.GC2]E0501A.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 16:34:24
Sample name.....INDAM03
Notes.....STD,INDAM03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

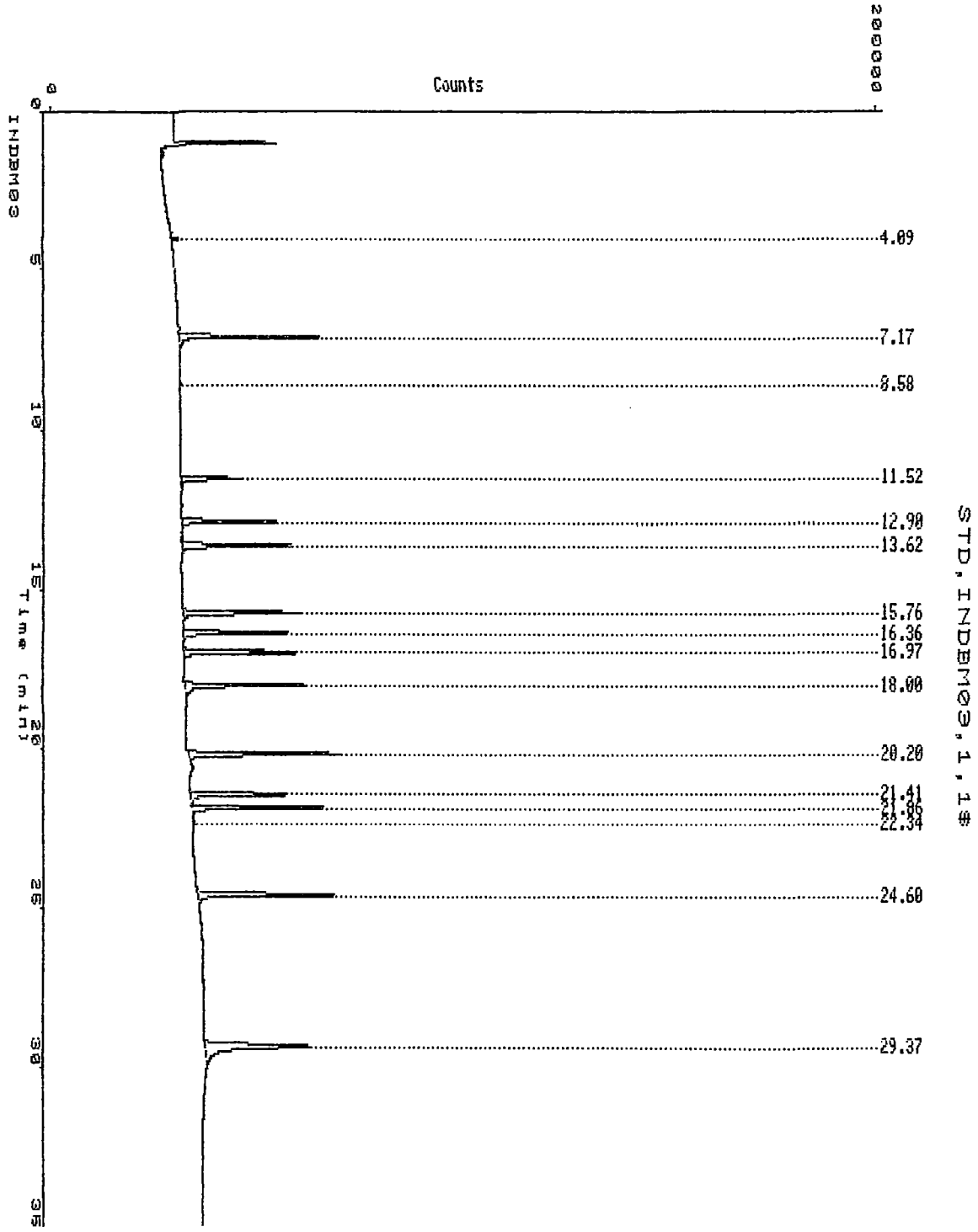
Calibration Sample name: INDA4X

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.088			10651			BB	
TETRACL-M-XYLENE	7.169	-0.54	20.99	183185			BB	
	8.582			1859			BB	
A-BHC	9.739	-0.53	21.01	160000			BB	
G-BHC	11.218	-0.48	21.15	177206			BB	
	11.872			2565			BB	
HEPTACHLOR	12.402	-0.71	20.60	190727			BB	
ENDOSULFAN I	17.038	-1.09	21.30	156596			BB	
DIELDRIN	18.178	-0.49	43.49	261875			BB	
ENDRIN	19.511	-0.63	39.36	185486			BB	
DDD	20.053	-0.80	36.41	117795			BB	
DDT	21.129	-0.53	37.37	137933			BE	
	21.419			20899			EB	
METHOXYCHLOR	24.356	-0.93	178.2	348009			BE	
	24.589			32312			EB	
DECACHLOROBIPHEN	29.370	-1.18	41.88	294691	R		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608040.RAW;1
Report: 51075
Acquired: 2-MAY-1992 17:14:42
Time range: 0.00-35.00



Date..... 2-MAY-1992 17:50:22.38
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608040.RAW;1
Method file.....NAI$DIR:[DATA.GC2]E0501B.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 17:14:42
Sample name.....INDBM03
Notes.....STD,INDBM03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

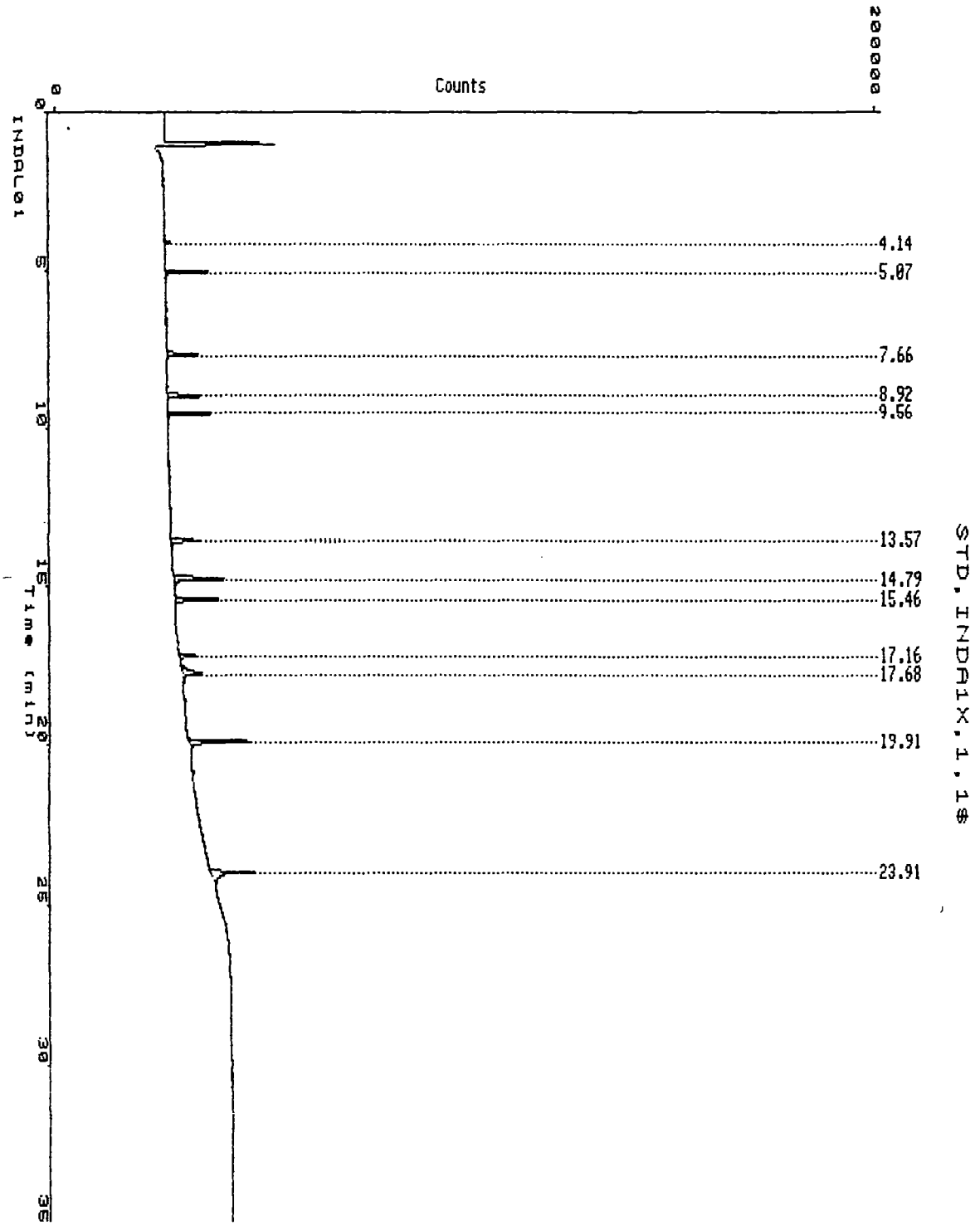
Calibration Sample name: INDB4X

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.089			7265			BB	
TETRACL-M-XYLENE	7.169	0.04	19.73	167036			BB	
	8.583			1299			BB	
B-BHC	11.524	-0.86	18.22	77641			BB	
D-BHC	12.895	-0.90	17.65	115131			BB	
ALDRIN	13.617	-1.01	20.59	157227			BB	
HEPT.EPOX	15.756	-0.97	19.77	163473			BB	
G-CHLORDANE	16.356	-0.93	19.46	149201			BB	
A-CHLORDANE	16.966	-0.93	19.65	159423			BB	
DDE	18.001	-1.26	33.60	178514			BB	
ENDOSULFAN II	20.196	-0.96	35.92	209325			BB	
ENDRIN ALDEHYDE	21.414	-0.86	35.66	142052			BV	
ENDO.SULFATE	21.857	-1.00	34.37	180408			VB	
	22.340			1713			BB	
ENDRIN KETONE	24.597	-1.03	34.59	187384			BB	
DECACHLOROBIPHEN	29.368	-1.70	36.09	288047	R		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701016.RAW;2
Report: 51908
Acquired: 30-APR-1992 18:37:59
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:05:13.28
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701016.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FISMA0429.MET;9
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 18:37:59
Sample name.....INDAL01
Notes.....STD,INDA1X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDA1X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	5.071	37423	5.0000	7.485E+03		
A-BHC	7.660	27193	5.0000	5.439E+03		
G-BHC	8.923	30828	5.0000	6.166E+03		
HEPTACHLOR	9.560	46888	5.0000	9.378E+03		
ENDOSULFAN I	13.569	36835	5.0000	7.367E+03		
DIELDRIN	14.788	62731	10.000	6.273E+03		
ENDRIN	15.455	50511	10.000	5.051E+03		
DDD	17.165	21009	10.000	2.101E+03		
DDT	17.681	38484	10.000	3.848E+03		
METHOXYCHLOR	19.907	73264	50.000	1.465E+03		
DECACHLOROBIPHEN	23.910	77060	10.000	7.706E+03		

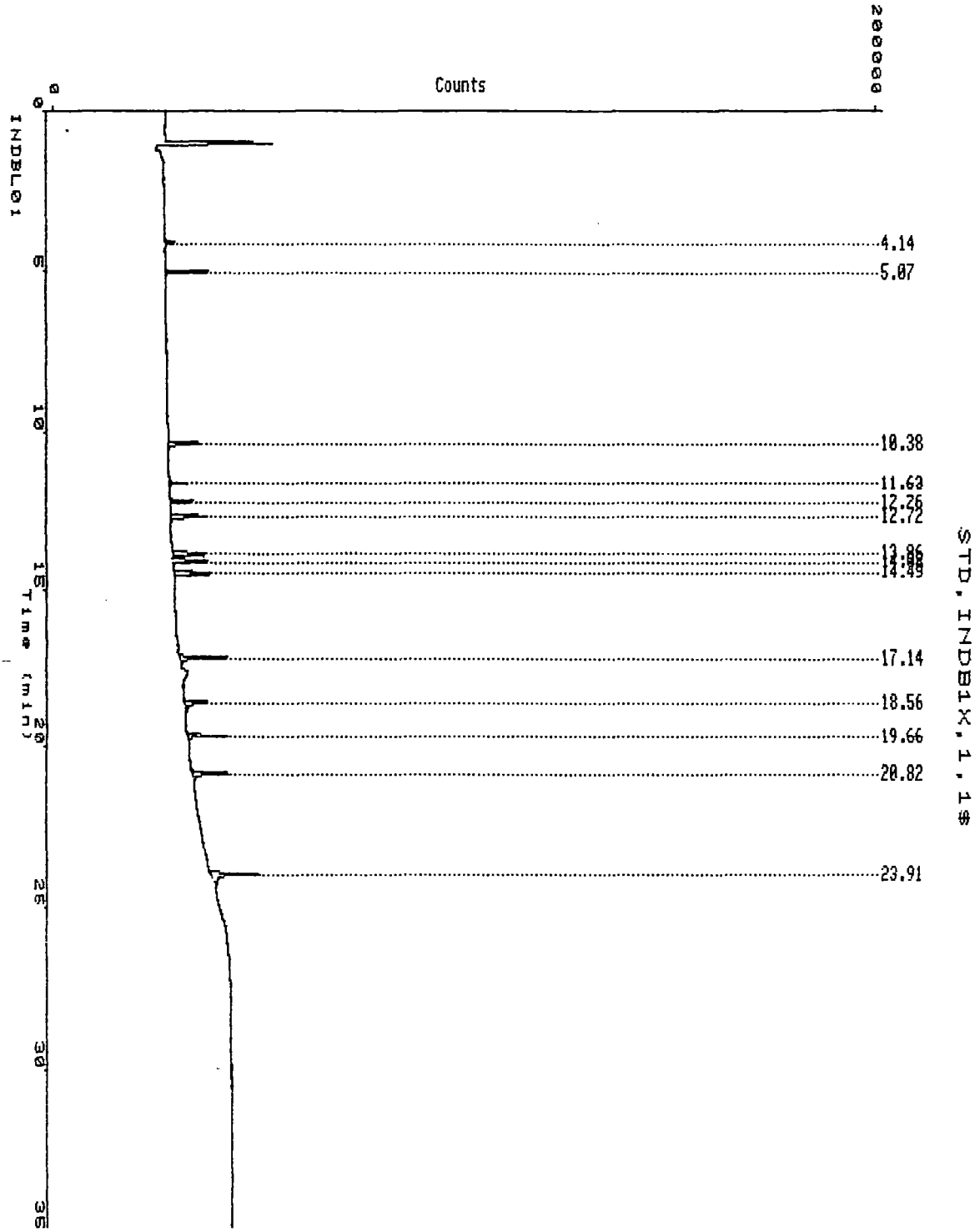
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	5.067	5.071	7.485E+03	7.485E+03		1
A-BHC	7.658	7.660	5.439E+03	5.439E+03		1
G-BHC	8.920	8.923	6.166E+03	6.166E+03		1
HEPTACHLOR	9.557	9.560	9.378E+03	9.378E+03		1
ENDOSULFAN I	13.568	13.569	7.367E+03	7.367E+03		1
DIELDRIN	14.787	14.788	6.273E+03	6.273E+03		1
ENDRIN	15.454	15.455	5.051E+03	5.051E+03		1
DDD	17.164	17.165	2.101E+03	2.101E+03		1
DDT	17.683	17.681	3.848E+03	3.848E+03		1
METHOXYCHLOR	19.903	19.907	1.465E+03	1.465E+03		1
DECACHLOROBIPHEN	23.905	23.910	7.706E+03	7.706E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701017.RAW;2
Report: 51911
Acquired: 30-APR-1992 19:18:23
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:06:47.88
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701017.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FISMB0429.MET;18
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 19:18:23
Sample name.....INDBL01
Notes.....STD,INDB1X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDB1X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	5.067	37275	5.0000	7.455E+03		
ALDRIN	10.384	36546	5.0000	7.309E+03		
B-BHC	11.627	16940	5.0000	3.388E+03		
D-BHC	12.259	22641	5.0000	4.528E+03		
HEPT.EPOX	12.724	42437	5.0000	8.487E+03		
G-CHLORDANE	13.862	39080	5.0000	7.816E+03		
A-CHLORDANE	14.083	41966	5.0000	8.393E+03		
DDE	14.495	42084	10.000	4.208E+03		
ENDOSULFAN II	17.143	59489	10.000	5.949E+03		
ENDRIN ALDEHYDE	18.563	34237	10.000	3.424E+03		
ENDO.SULFATE	19.660	52060	10.000	5.206E+03		
ENDRIN KETONE	20.824	45752	10.000	4.575E+03		
DECACHLOROBIPHEN	23.912	80180	10.000	8.018E+03		

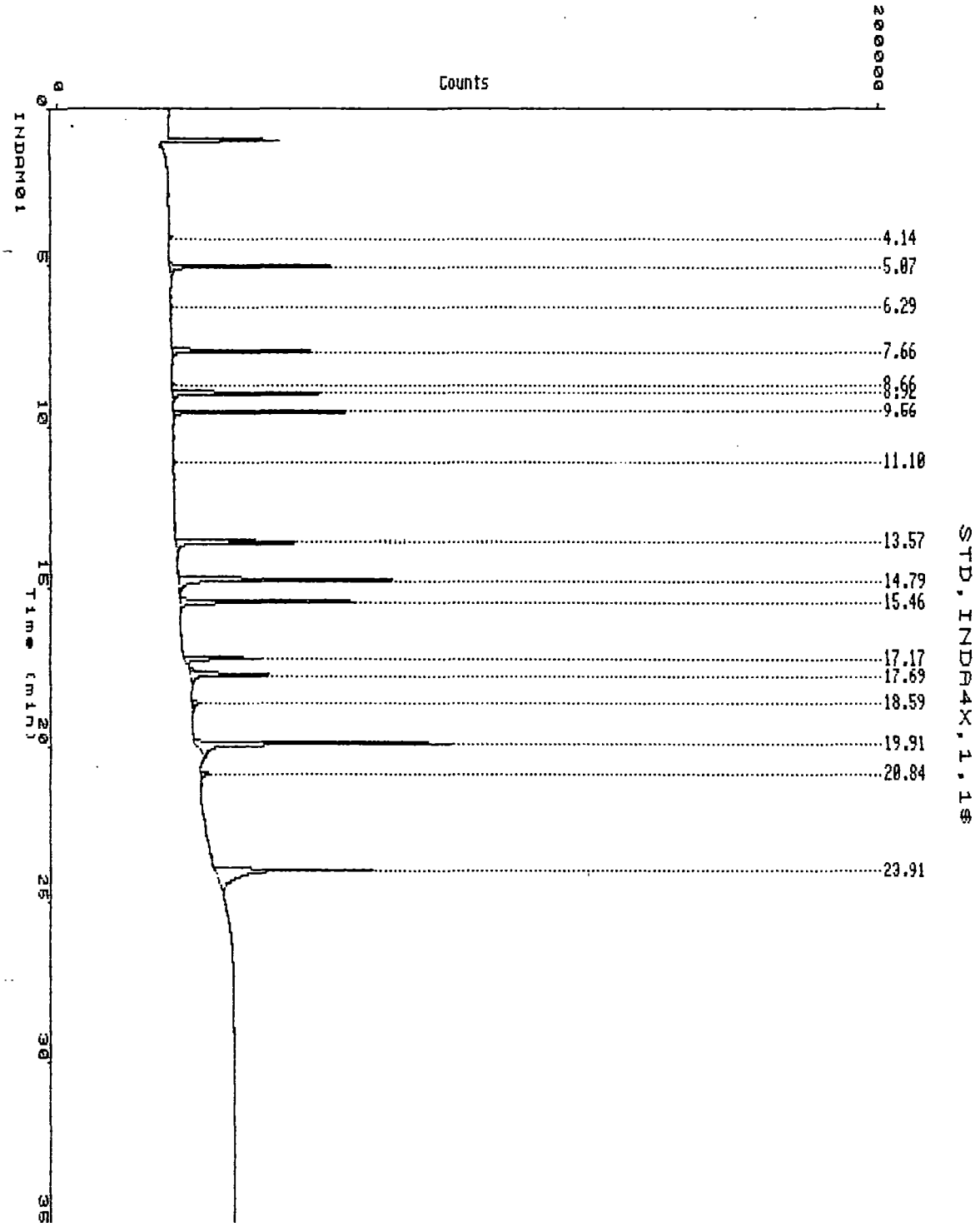
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	5.066	5.067	7.455E+03	7.455E+03		1
ALDRIN	10.382	10.384	7.309E+03	7.309E+03		1
B-BHC	11.624	11.627	3.388E+03	3.388E+03		1
D-BHC	12.256	12.259	4.528E+03	4.528E+03		1
HEPT.EPOX	12.719	12.724	8.487E+03	8.487E+03		1
G-CHLORDANE	13.858	13.862	7.816E+03	7.816E+03		1
A-CHLORDANE	14.079	14.083	8.393E+03	8.393E+03		1
DDE	14.490	14.495	4.208E+03	4.208E+03		1
ENDOSULFAN II	17.136	17.143	5.949E+03	5.949E+03		1
ENDRIN ALDEHYDE	18.554	18.563	3.424E+03	3.424E+03		1
ENDO.SULFATE	19.650	19.660	5.206E+03	5.206E+03		1
ENDRIN KETONE	20.815	20.824	4.575E+03	4.575E+03		1
DECACHLOROBIPHEN	23.901	23.912	8.018E+03	8.018E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701020.RAW;2
Report: 51916
Acquired: 30-APR-1992 21:19:18
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:11:30.69
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701020.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FISMA0429.MET;11
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 21:19:18
Sample name.....INDAM01
Notes.....STD,INDA4X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDA4X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	5.070	152407	20.000	7.620E+03		
A-BHC	7.661	127898	20.000	6.395E+03		
G-BHC	8.923	145014	20.000	7.251E+03		
HEPTACHLOR	9.561	194891	20.000	9.745E+03		
ENDOSULFAN I	13.572	158852	20.000	7.943E+03		
DIELDRIN	14.791	282260	40.000	7.056E+03		
ENDRIN	15.458	211601	40.000	5.290E+03		
DDD	17.167	89324	40.000	2.233E+03		
DDT	17.685	115572	40.000	2.889E+03		
METHOXYCHLOR	19.909	343837	200.00	1.719E+03		
DECACHLOROBIPHEN	23.911	356599	40.000	8.915E+03		

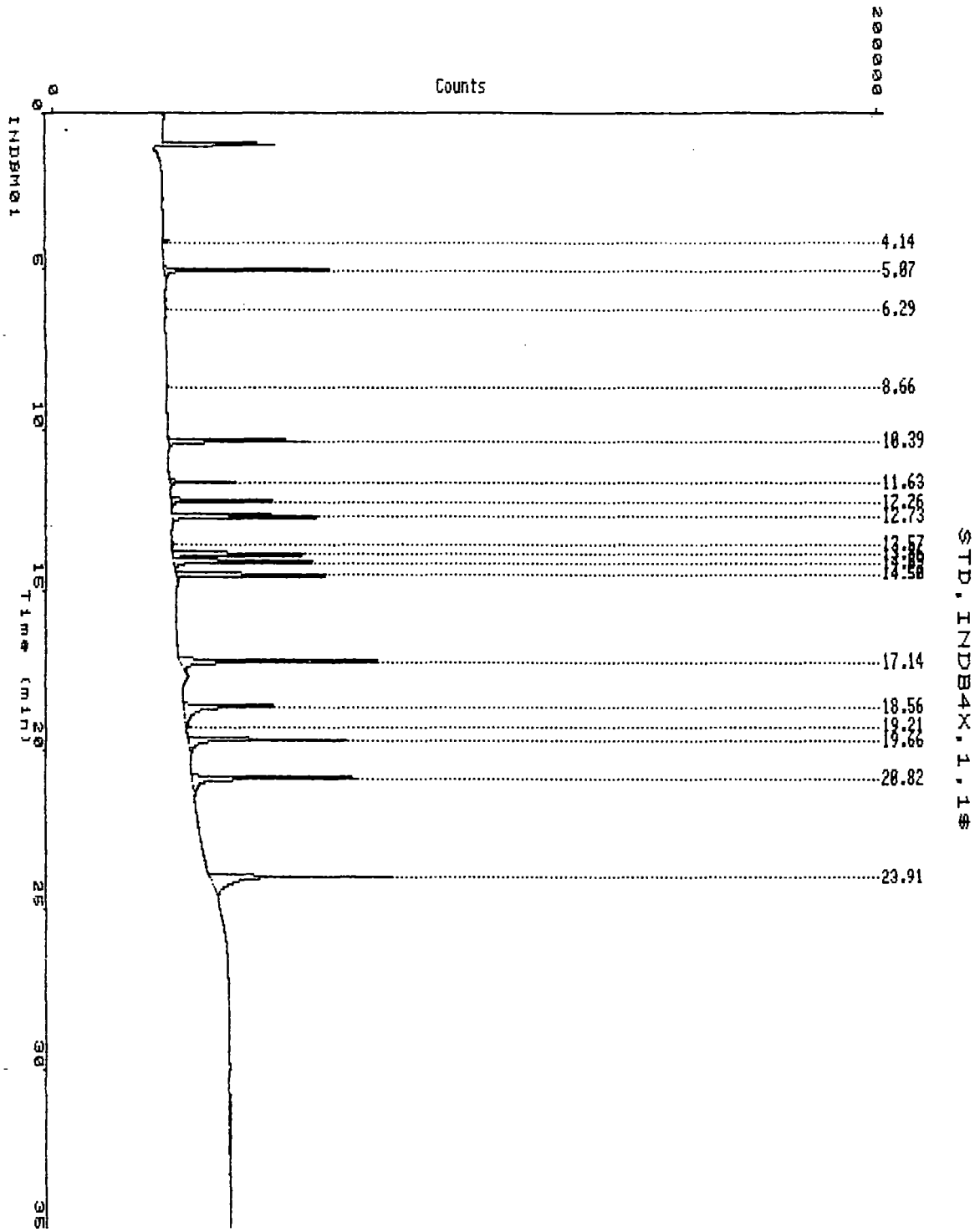
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	5.071	5.070	7.620E+03	7.620E+03		1
A-BHC	7.661	7.661	6.395E+03	6.395E+03		1
G-BHC	8.924	8.923	7.251E+03	7.251E+03		1
HEPTACHLOR	9.563	9.561	9.745E+03	9.745E+03		1
ENDOSULFAN I	13.575	13.572	7.943E+03	7.943E+03		1
DIELDRIN	14.793	14.791	7.056E+03	7.056E+03		1
ENDRIN	15.460	15.458	5.290E+03	5.290E+03		1
DDD	17.169	17.167	2.233E+03	2.233E+03		1
DDT	17.687	17.685	2.889E+03	2.889E+03		1
METHOXYCHLOR	19.912	19.909	1.719E+03	1.719E+03		1
DECACHLOROBIPHEN	23.912	23.911	8.915E+03	8.915E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701021.RAW;2
Report: 51918
Acquired: 30-APR-1992 21:59:40
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:12:38.82
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701021.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FISMB0429.MET;20
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 21:59:40
Sample name.....INDBM01
Notes.....STD,INDB4X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDB4X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref Std
TETRACL-M-XYLENE	5.070	148663	20.000	7.433E+03	
ALDRIN	10.387	156330	20.000	7.816E+03	
B-BHC	11.629	65905	20.000	3.295E+03	
D-BHC	12.261	102400	20.000	5.120E+03	
HEPT.EPOX	12.725	173715	20.000	8.686E+03	
G-CHLORDANE	13.864	155973	20.000	7.799E+03	
A-CHLORDANE	14.085	173667	20.000	8.683E+03	
DDE	14.496	169419	40.000	4.235E+03	
ENDOSULFAN II	17.143	251353	40.000	6.284E+03	
ENDRIN ALDEHYDE	18.562	183893	40.000	4.597E+03	
ENDO.SULFATE	19.658	227574	40.000	5.689E+03	
ENDRIN KETONE	20.822	231077	40.000	5.777E+03	
DECACHLOROBIPHEN	23.908	362351	40.000	9.059E+03	

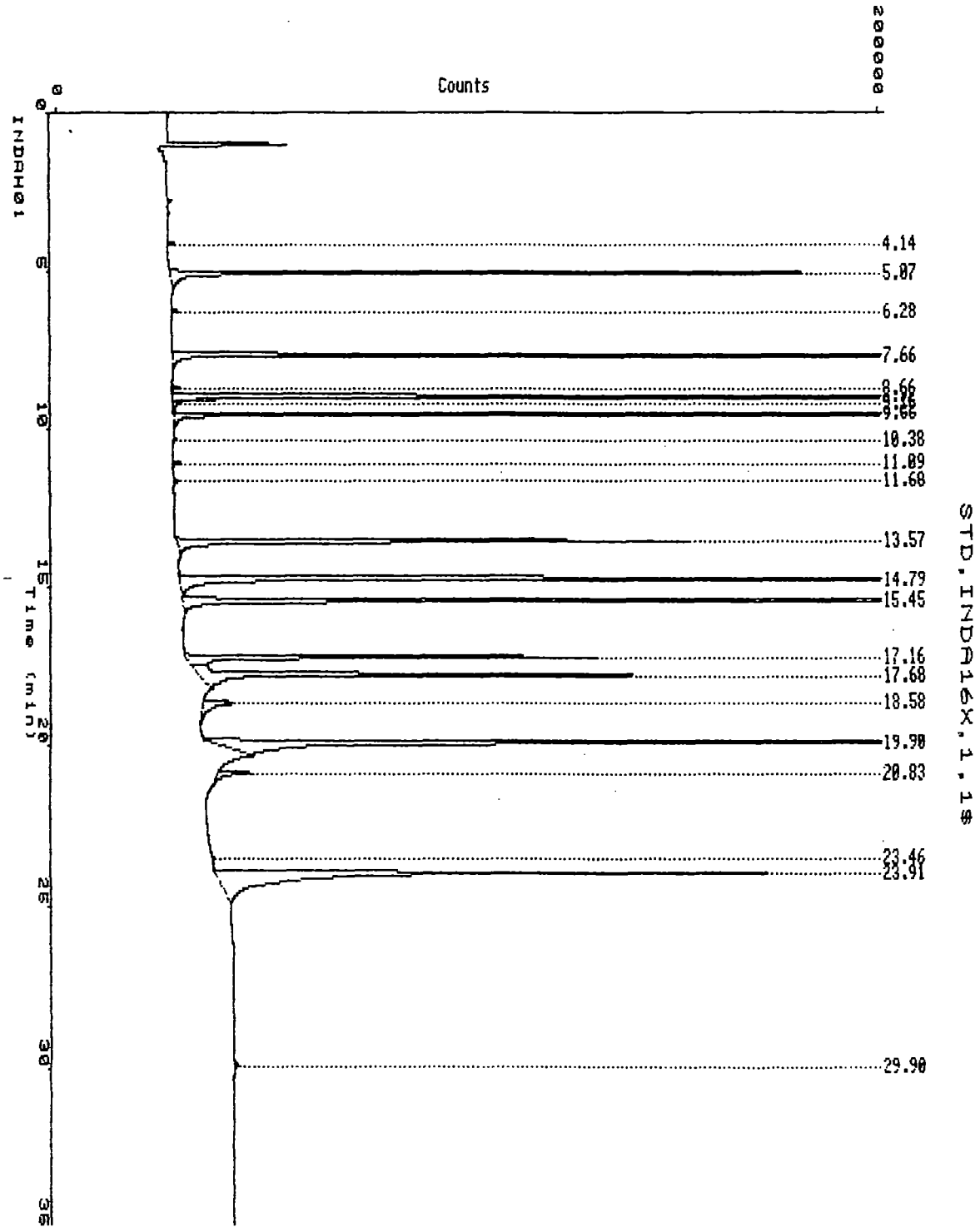
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	5.070	5.070	7.433E+03	7.433E+03		1
ALDRIN	10.387	10.387	7.816E+03	7.816E+03		1
B-BHC	11.629	11.629	3.295E+03	3.295E+03		1
D-BHC	12.261	12.261	5.120E+03	5.120E+03		1
HEPT.EPOX	12.726	12.725	8.686E+03	8.686E+03		1
G-CHLORDANE	13.864	13.864	7.799E+03	7.799E+03		1
A-CHLORDANE	14.086	14.085	8.683E+03	8.683E+03		1
DDE	14.497	14.496	4.235E+03	4.235E+03		1
ENDOSULFAN II	17.145	17.143	6.284E+03	6.284E+03		1
ENDRIN ALDEHYDE	18.565	18.562	4.597E+03	4.597E+03		1
ENDO.SULFATE	19.661	19.658	5.689E+03	5.689E+03		1
ENDRIN KETONE	20.824	20.822	5.777E+03	5.777E+03		1
DECACHLOROBIPHEN	23.910	23.908	9.059E+03	9.059E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701024.RAW;2
Report: 51921
Acquired: 1-MAY-1992 00:00:36
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:14:49.78
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701024.RAW;2
Method file.....NAI$DIR:[DATA.GC2]F0429-2DB1701024.MET;2
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 1-MAY-1992 00:00:36
Sample name.....INDAH01
Notes.....STD.INDA16X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDA16X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	5.067	621105	80.000	7.764E+03		
A-BHC	7.658	693056	80.000	8.663E+03		
G-BHC	8.920	723717	80.000	9.046E+03		
HEPTACHLOR	9.557	843861	80.000	1.055E+04		
ENDOSULFAN I	13.568	672676	80.000	8.408E+03		
DIELDRIN	14.787	1269130	160.00	7.932E+03		
ENDRIN	15.454	996697	160.00	6.229E+03		
DDD	17.164	488507	160.00	3.053E+03		
DDT	17.683	623205	160.00	3.895E+03		
METHOXYCHLOR	19.903	1492845	800.00	1.866E+03		
DECACHLOROBIPHEN	23.905	1356680	160.00	8.479E+03		

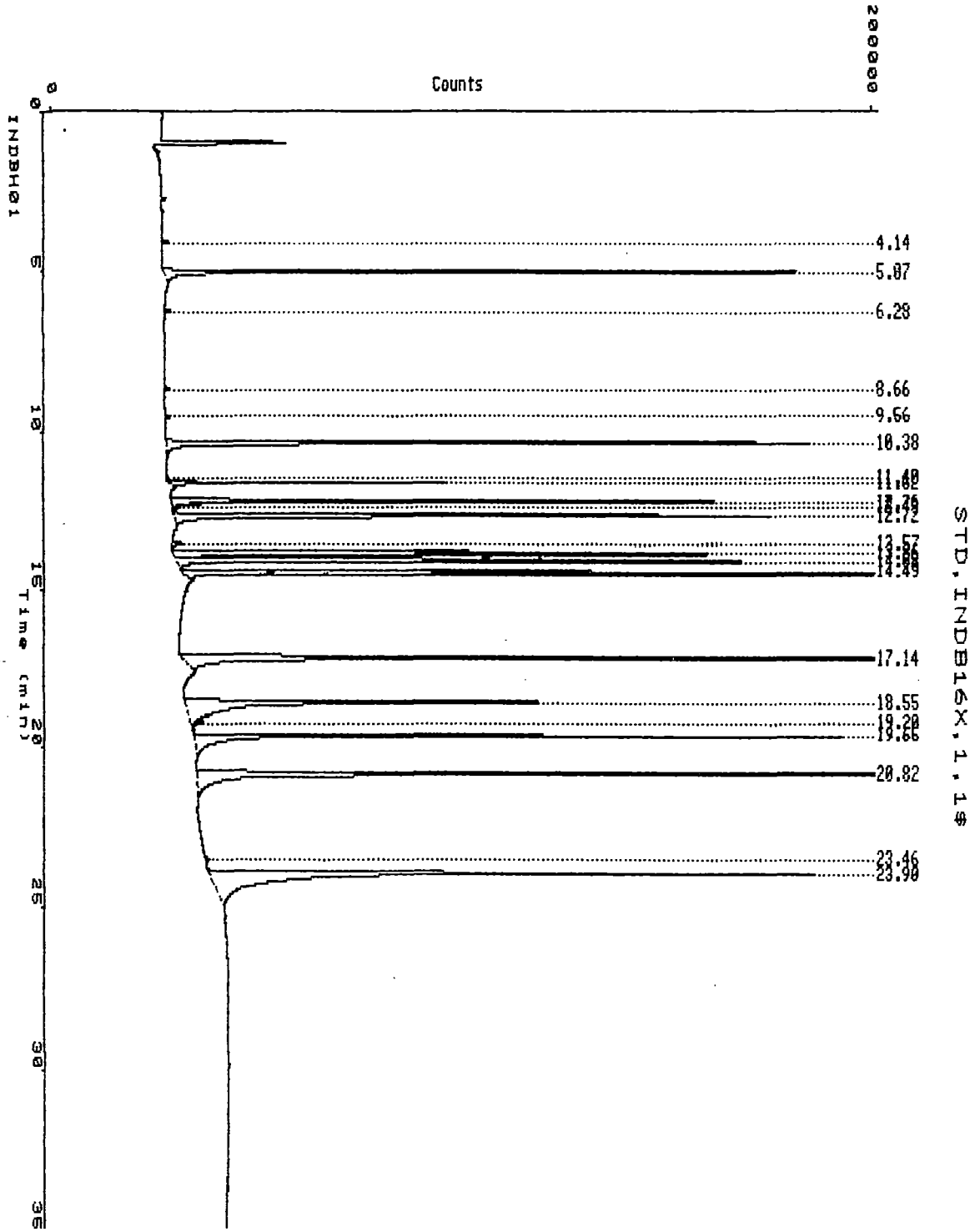
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	5.067	5.067	7.764E+03	7.764E+03		1
A-BHC	7.658	7.658	8.663E+03	8.663E+03		1
G-BHC	8.920	8.920	9.046E+03	9.046E+03		1
HEPTACHLOR	9.557	9.557	1.055E+04	1.055E+04		1
ENDOSULFAN I	13.568	13.568	8.408E+03	8.408E+03		1
DIELDRIN	14.787	14.787	7.932E+03	7.932E+03		1
ENDRIN	15.454	15.454	6.229E+03	6.229E+03		1
DDD	17.164	17.164	3.053E+03	3.053E+03		1
DDT	17.683	17.683	3.895E+03	3.895E+03		1
METHOXYCHLOR	19.903	19.903	1.866E+03	1.866E+03		1
DECACHLOROBIPHEN	23.905	23.905	8.479E+03	8.479E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701025.RAW;2
Report: 51922
Acquired: 1-MAY-1992 00:40:55
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:15:35.30
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701025.RAW;2
Method file.....NAI$DIR:[DATA.GC2]F0429025.MET;2
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 1-MAY-1992 00:40:55
Sample name.....INDBH01
Notes.....STD.INDB16X,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Volume injected.....1.00000

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: INDB16X

Peak Name	R.T.(min)	Peak Area	Conc	CF	Ref	Std
TETRACL-M-XYLENE	5.066	590046	80.000	7.376E+03		
ALDRIN	10.382	722230	80.000	9.028E+03		
B-BHC	11.624	277803	80.000	3.473E+03		
D-BHC	12.256	520001	80.000	6.500E+03		
HEPT.EPOX	12.719	719729	80.000	8.997E+03		
G-CHLORDANE	13.858	646866	80.000	8.086E+03		
A-CHLORDANE	14.079	713063	80.000	8.913E+03		
DDE	14.490	786261	160.00	4.914E+03		
ENDOSULFAN II	17.136	1065073	160.00	6.657E+03		
ENDRIN ALDEHYDE	18.554	715194	160.00	4.470E+03		
ENDO.SULFATE	19.650	945942	160.00	5.912E+03		
ENDRIN KETONE	20.815	1038715	160.00	6.492E+03		
DECACHLOROBIPHEN	23.901	1386079	160.00	8.663E+03		

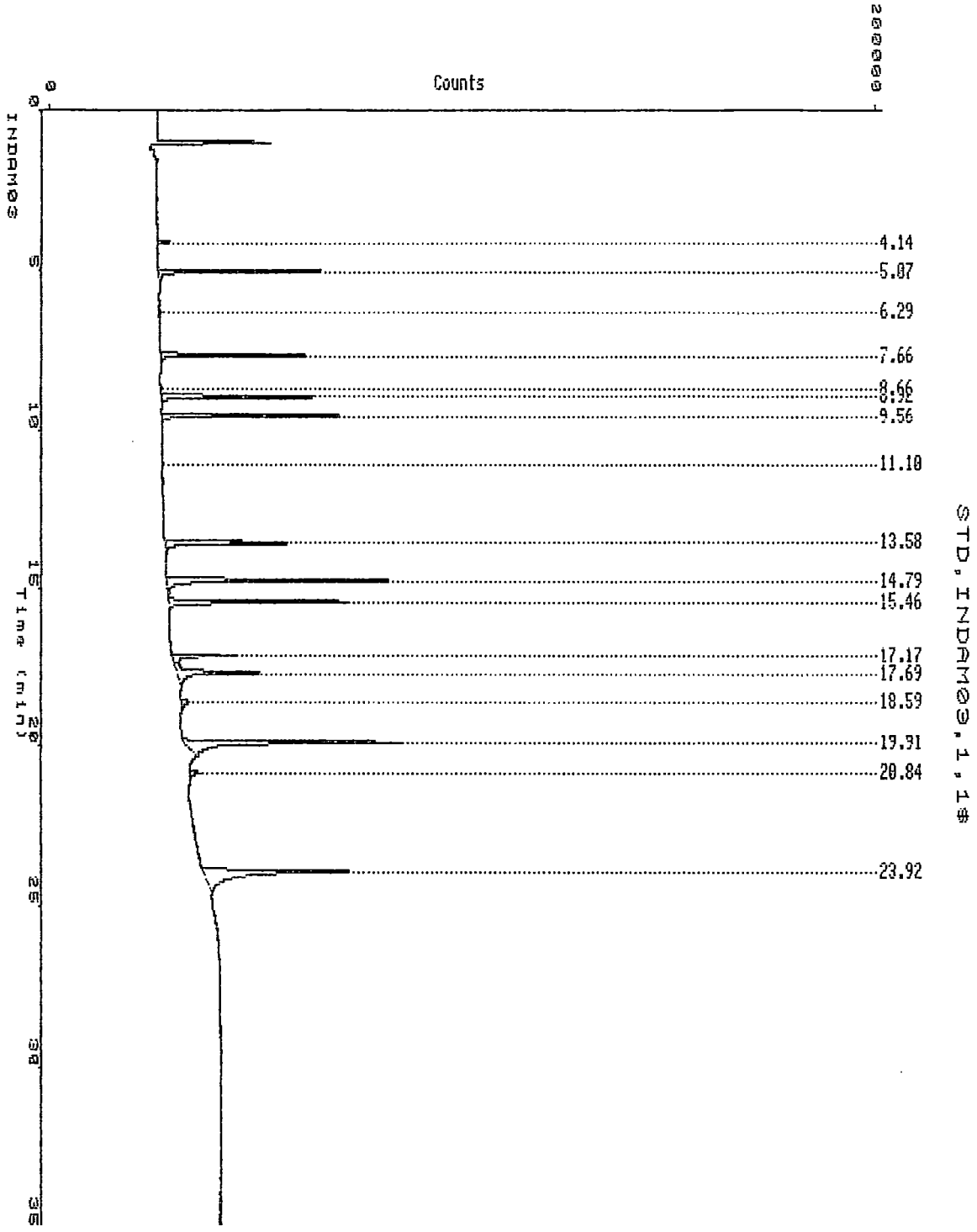
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
TETRACL-M-XYLENE	5.066	5.066	7.376E+03	7.376E+03		1
ALDRIN	10.382	10.382	9.028E+03	9.028E+03		1
B-BHC	11.624	11.624	3.473E+03	3.473E+03		1
D-BHC	12.256	12.256	6.500E+03	6.500E+03		1
HEPT.EPOX	12.719	12.719	8.997E+03	8.997E+03		1
G-CHLORDANE	13.858	13.858	8.086E+03	8.086E+03		1
A-CHLORDANE	14.079	14.079	8.913E+03	8.913E+03		1
DDE	14.490	14.490	4.914E+03	4.914E+03		1
ENDOSULFAN II	17.136	17.136	6.657E+03	6.657E+03		1
ENDRIN ALDEHYDE	18.554	18.554	4.470E+03	4.470E+03		1
ENDO.SULFATE	19.650	19.650	5.912E+03	5.912E+03		1
ENDRIN KETONE	20.815	20.815	6.492E+03	6.492E+03		1
DECACHLOROBIPHEN	23.901	23.901	8.663E+03	8.663E+03		1

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701040.RAW;1
Report: 51360
Acquired: 2-MAY-1992 17:14:48
Time range: 0.00-35.00



Date..... 5-MAY-1992 06:22:12.80
Raw file.....NAI$DIR:[DATA.GC2]F0501-20B1701040.RAW;1
Method file.....NAI$DIR:[DATA.GC2]F0501A.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 17:14:48
Sample name.....INDAM03
Notes.....STD,INDAM03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

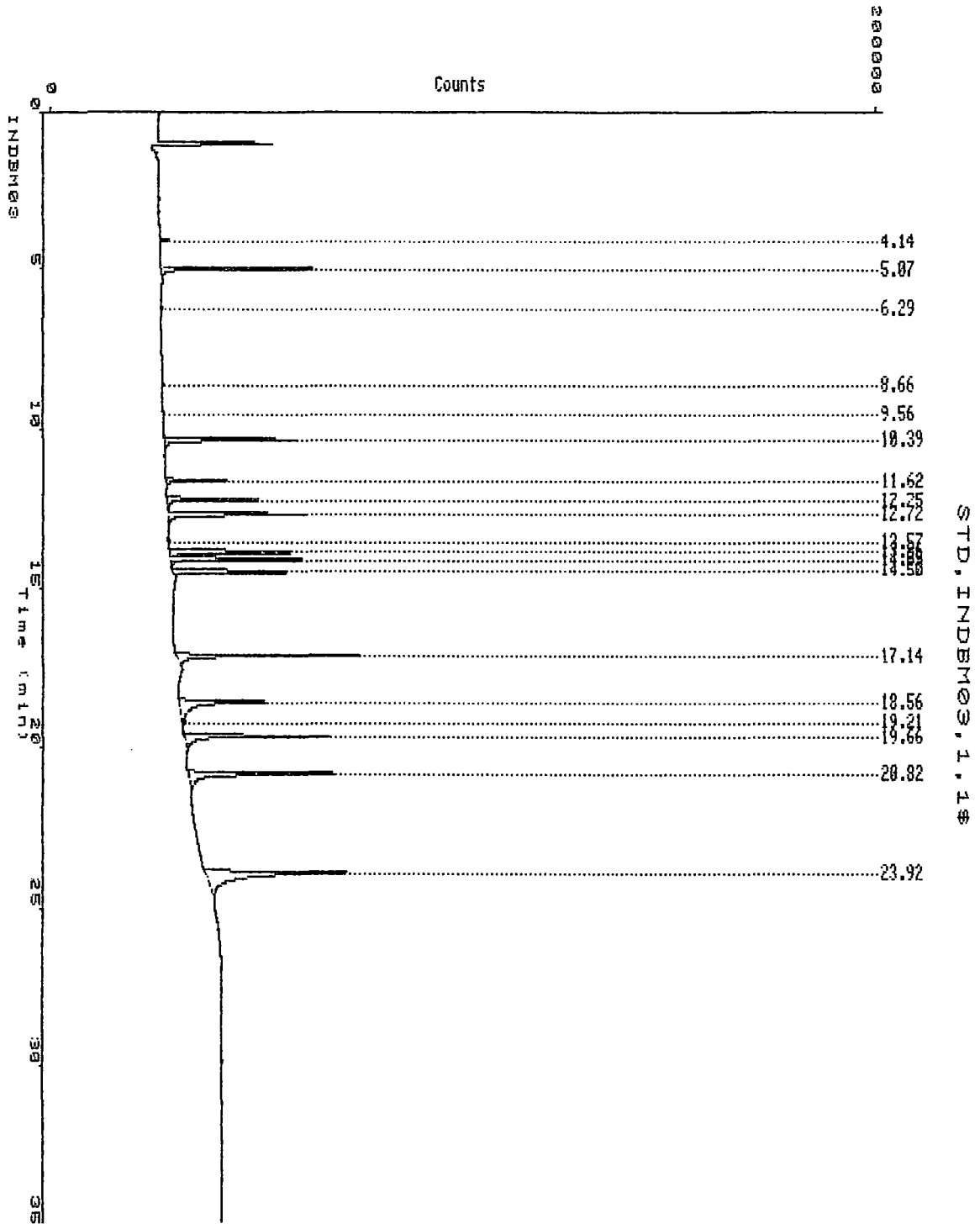
Calibration Sample name: INDA4X

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.141			10271		BB	
TETRACL-M-XYLENE	5.075	-0.27	20.33	154897		BB	
	6.291			1163		BB	
A-BHC	7.662	-0.11	20.33	129988		BB	
	8.662			1484		BB	
G-BHC	8.924	-0.24	20.56	149054		BB	
HEPTACHLOR	9.564	-0.24	20.44	199177		BB	
	11.098			1280		BB	
ENDOSULFAN I	13.576	-0.35	20.61	163690		BB	
DIELDRIN	14.794	-0.25	41.41	292178		BV	
ENDRIN	15.461	-0.04	41.51	219613		VB	
DDD	17.169	0.04	38.87	86793		BV	
DDT	17.689	-0.55	48.89	141272		VB	
	18.592			18559		BB	
METHOXYCHLOR	19.913	-0.17	197.0	338729		BB	
	20.840			15461		BB	
DECACHLOROBIPHEN	23.922	-0.70	40.83	364027	R	BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701041.RAW;1
Report: 51077
Acquired: 2-MAY-1992 17:55:07
Time range: 0.00-35.00



Date..... 2-MAY-1992 18:30:41.84
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB1701041.RAW;1
Method file.....NAI$DIR:[DATA.GC2]E0501B.MET;2
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 17:55:07
Sample name.....INDBM03
Notes.....STD,INDBM03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

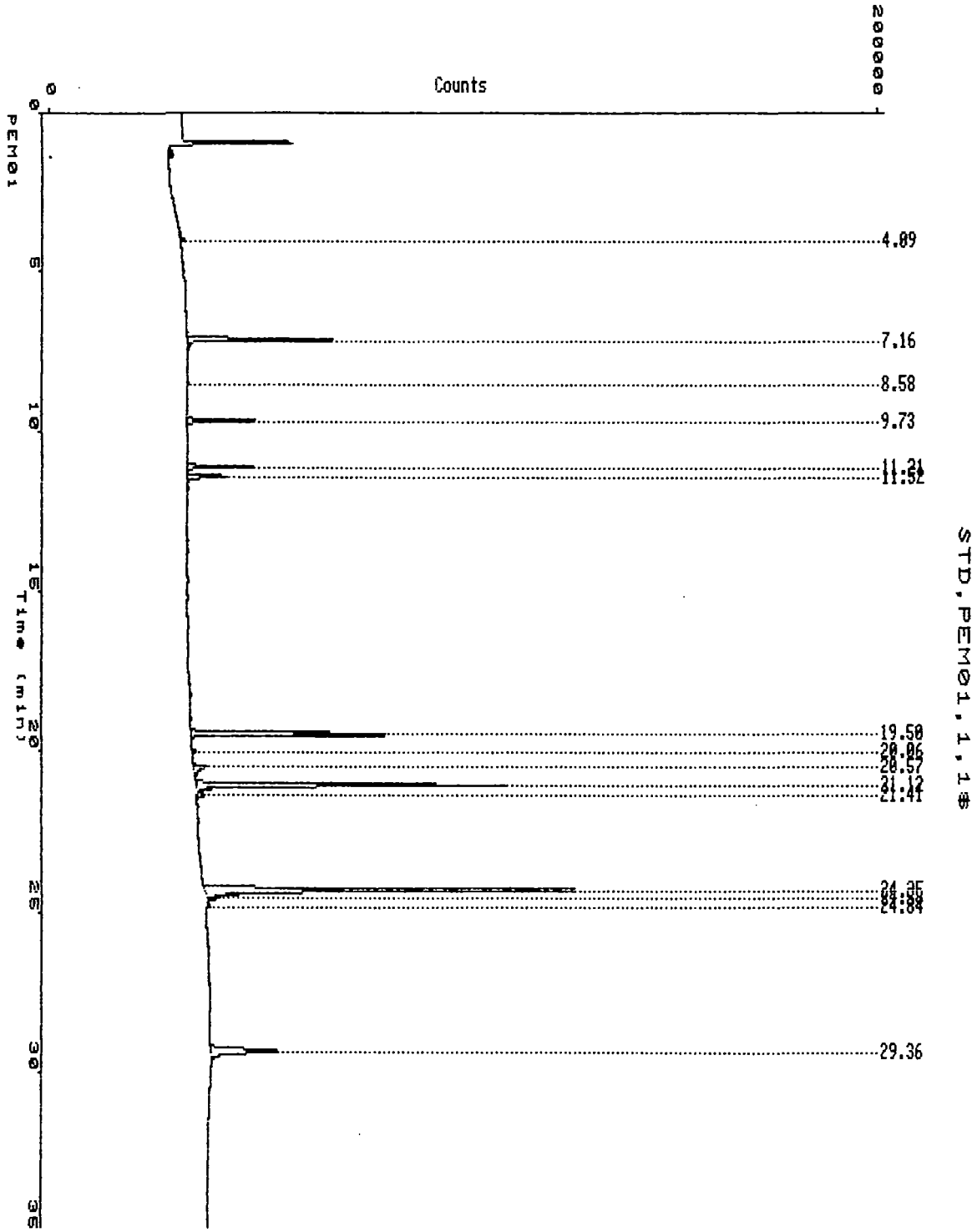
Calibration Sample name: INDB4X

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.140			7583			BB	
TETRACL-M-XYLENE	5.073	-0.17	19.35	143814			BB	
	6.289			1082			BB	
	8.660			795			BB	
	9.562			785			BB	
ALDRIN	10.387	0.17	19.75	154363			BB	
B-BHC	11.623	0.44	18.69	61576			BB	
D-BHC	12.255	0.31	18.79	96184			BV	
HEPT.EPOX	12.724	-0.26	19.72	171289			VB	
	13.571			2487			BB	
G-CHLORDANE	13.863	-0.21	19.72	153763			BV	
A-CHLORDANE	14.085	-0.30	19.65	170671			VB	
DDE	14.495	0.28	32.73	138643			BB	
ENDOSULFAN II	17.143	-0.21	39.58	248704			BB	
ENDRIN ALDEHYDE	18.562	-0.11	39.92	183541			BE	
	19.208			5542			EB	
ENDO.SULFATE	19.658	0.11	38.23	217530			BB	
ENDRIN KETONE	20.824	-0.21	40.01	231150			BB	
DECACHLOROBIPHEN	23.920	-0.61	39.83	360771	R		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608006.RAW;2
Report: 51882
Acquired: 30-APR-1992 11:54:11
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:46:40.98
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608006.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EPEM05026.MET;3
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 11:54:11
Sample name.....PEM01
Notes.....STD,PEM01,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

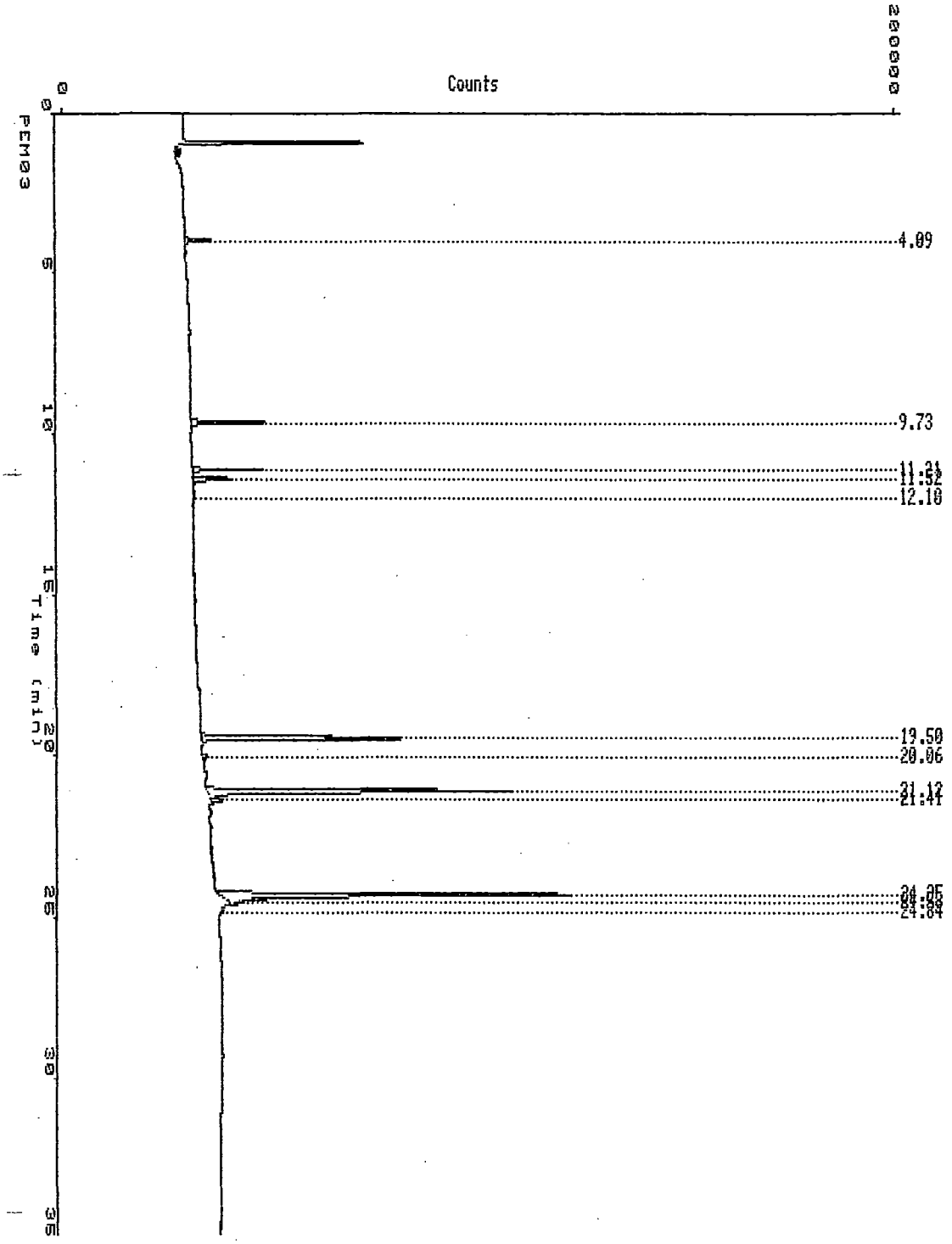
Calibration Sample name: PEM

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.086			3535		BB	
TETRACL-M-XYLENE	7.165	-0.29	18.59	162273		BB	
	8.577			1632		BB	
A-BHC	9.733	-0.19	10.13	77131		BB	
G-BHC	11.211	-0.08	9.070	76004		BV	
B-BHC	11.518	-0.46	11.21	47755		VB	
ENDRIN	19.504	-0.25	54.22	255545		BB	
DDD	20.057	-1.01	1.327	4292		BB	
	20.566			36595		BV	
DDT	21.120	0.03	111.3	410911		VE	
ENDRIN ALDEHYDE	21.411	-0.67	3.577	14248		EB	
METHOXYCHLOR	24.347	-0.41	278.2	543351		BE	
ENDRIN KETONE	24.580	0.01	3.343	18110		EB	
	24.840			3119		BB	
DECACHLOROBIPHEN	29.356	-0.03	22.42	157746	R	BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608026
Report: 51190
Acquired: 2-MAY-1992 07:50:31
Time range: 0.00-34.99



.NR1
.DFNAI$DIR:[DATA.GC2]E0501-2DB608026
.KE
Date..... 4-MAY-1992 10:59:45.99
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608026.RAW;1
Method file.....NAI$DIR:[DATA.GC2]EPEM050126.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 07:50:31
Sample name.....PEM03
Notes.....STD,PEM03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

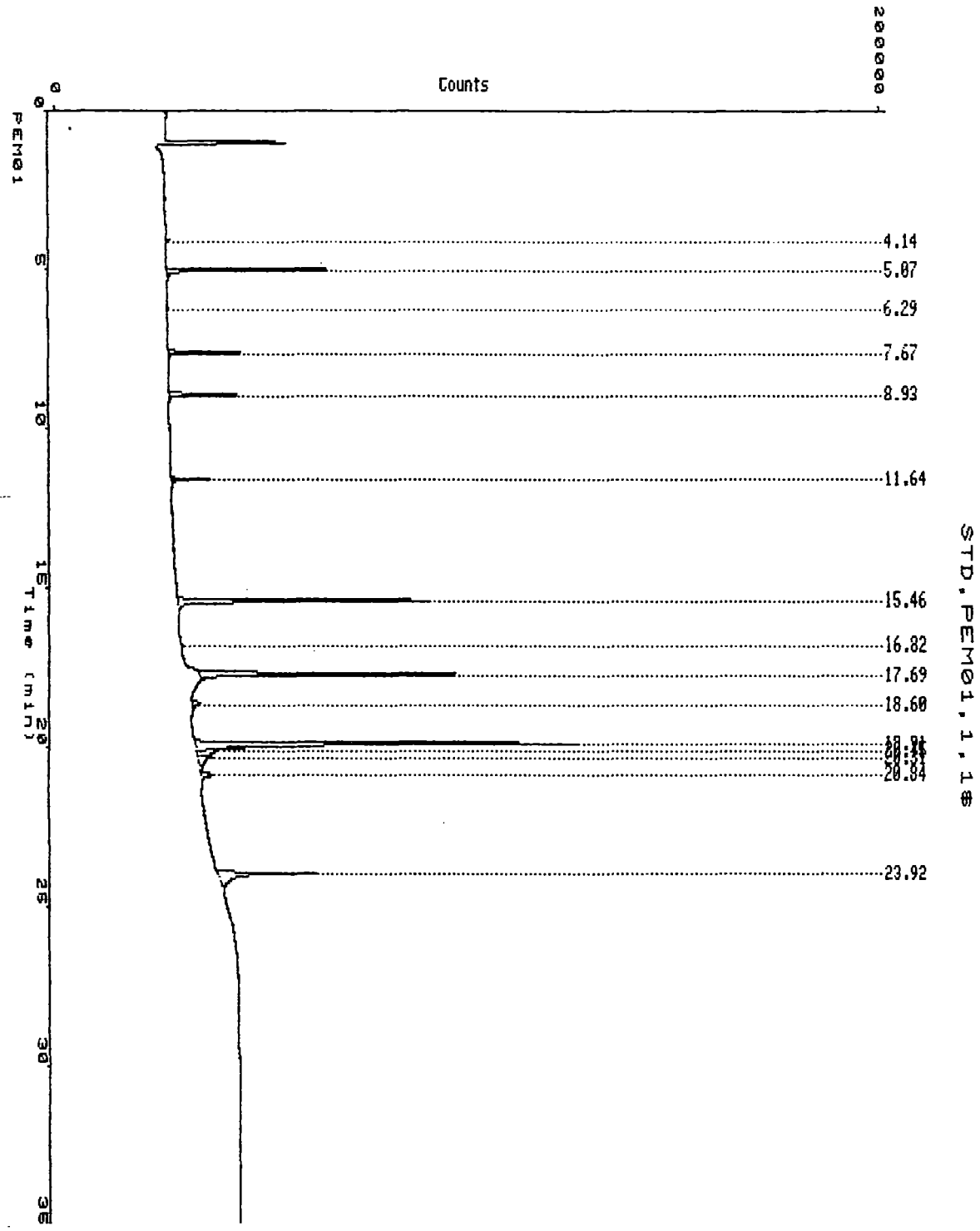
Calibration Sample name: PEM

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.085			25763		BB	
A-BHC	9.734	-0.24	10.76	81953		BB	
G-BHC	11.212	-0.12	9.688	81185		BV	
B-BHC	11.519	-0.54	11.57	49298		VB	
	12.097			2539		BB	
ENDRIN	19.504	-0.23	55.77	262807		BB	
DDD	20.064	-1.47	2.274	7356		BB	
DDT	21.121	-0.09	112.2	414061		BE	
ENDRIN ALDEHYDE	21.413	-0.77	4.055	16152		EB	
METHOXYCHLOR	24.350	-0.59	265.8	519088		BE	
ENDRIN KETONE	24.581	-0.04	2.245	12165		EB	
	24.837			2279		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)
2: Declared REFERENCE was not found during peak search. (142)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701007.RAW;2
Report: 51891
Acquired: 30-APR-1992 12:34:41
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:53:04.57
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701007.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FPEM05027.MET;1
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 12:34:41
Sample name.....PEM01
Notes.....STD,PEM01,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

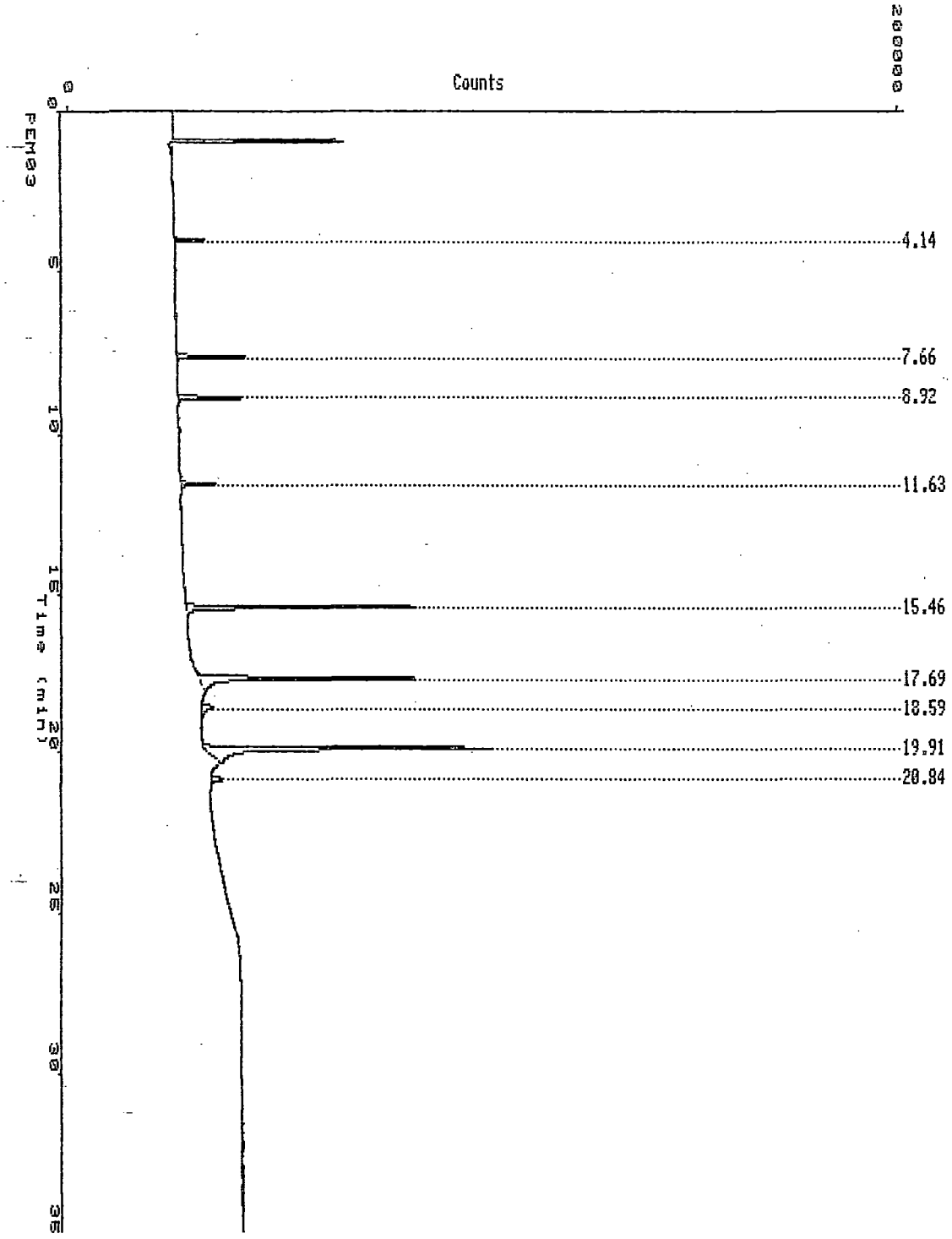
Calibration Sample name: PEM

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.143			3606			BB	
TETRACL-M-XYLENE	5.074	-0.25	19.18	146148			BB	
	6.291			1192			BB	
A-BHC	7.666	-0.35	9.778	62530			BB	
G-BHC	8.929	-0.52	8.703	63106			BB	
B-BHC	11.635	-0.30	11.98	39468			BB	
ENDRIN	15.461	-0.09	54.54	288533			BB	
	16.820			2404			BB	
DDT	17.690	-0.62	100.2	289476			BB	
ENDRIN ALDEHYDE	18.599	-2.35	4.091	18806			BB	
METHOXYCHLOR	19.914	-0.25	294.1	505641			BE	
	20.146			52629			EV	
	20.313			42127			VV	
ENDRIN KETONE	20.845	-1.49	3.201	18491			VB	
DECACHLOROBIPHEN	23.915	-0.02	21.33	190127	R		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701027
Report: 51152
Acquired: 2-MAY-1992 08:30:56
Time range: 0.00-34.99



.NR1
.DFNAI$DIR:[DATA.GC2]F0501-2DB1701027
.KF
Date..... 4-MAY-1992 07:18:49.55
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701027.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FPEM0501.MET;2
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 08:30:56
Sample name.....PEM03
Notes.....STD,PEM03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

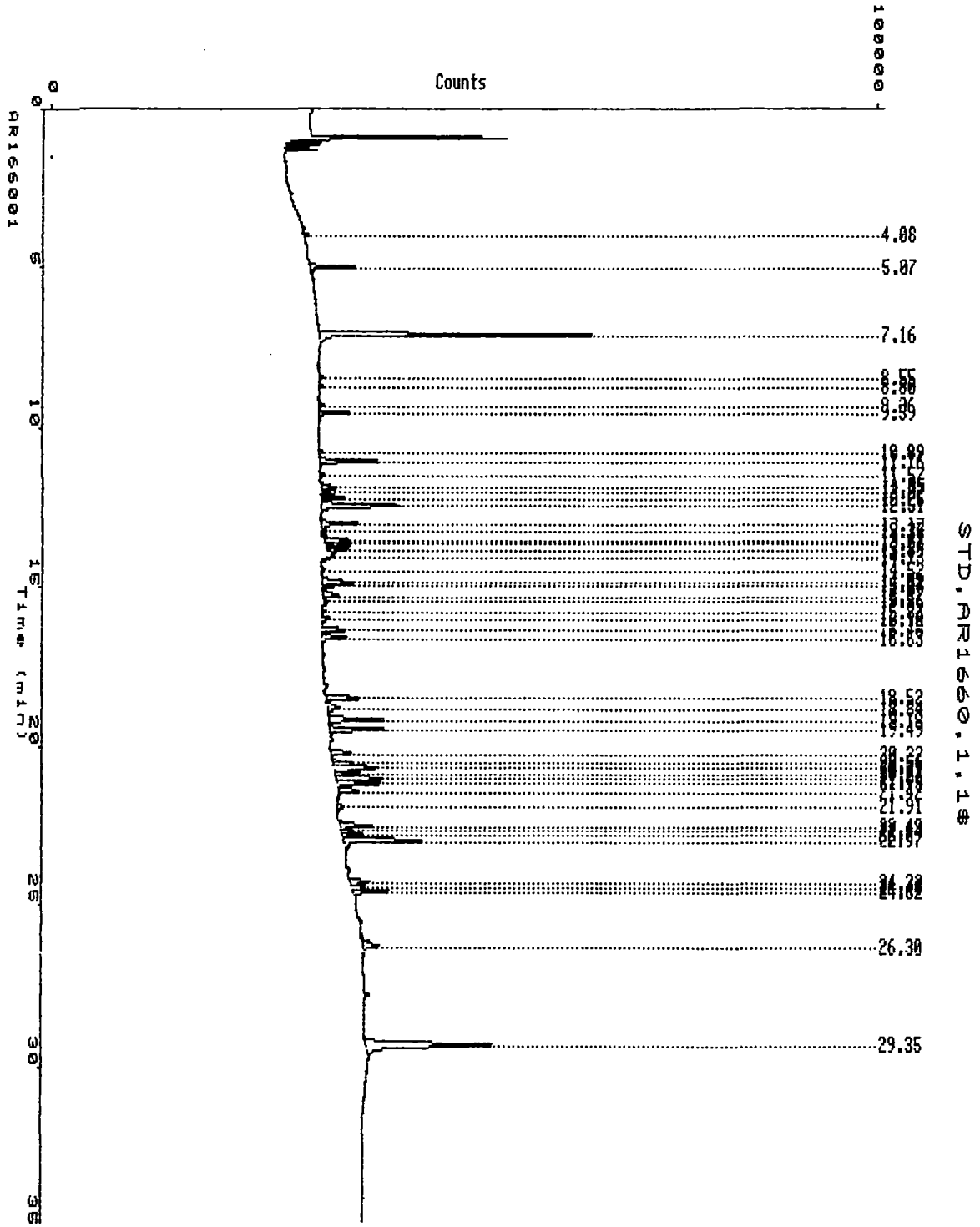
Calibration Sample name: PEM

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.140			24145			BB	
A-BHC	7.661	-0.06	9.518	60865			BB	
G-BHC	8.923	-0.17	8.499	61625			BB	
B-BHC	11.626	0.27	10.85	35754			BB	
ENDRIN	15.458	0.12	51.95	274842			BB	
DDT	17.687	-0.43	104.1	300903			BB	
ENDRIN ALDEHYDE	18.593	-1.99	6.109	28085			BB	
METHOXYCHLOR	19.911	-0.06	248.1	426472			BB	
ENDRIN KETONE	20.841	-1.23	3.341	19303			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)
2: Declared REFERENCE was not found during peak search. (142)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608007.RAW;2
Report: 51883
Acquired: 30-APR-1992 12:34:37
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:47:17.11
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608007.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 12:34:37
Sample name.....AR166001
Notes.....STD,AR1660,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

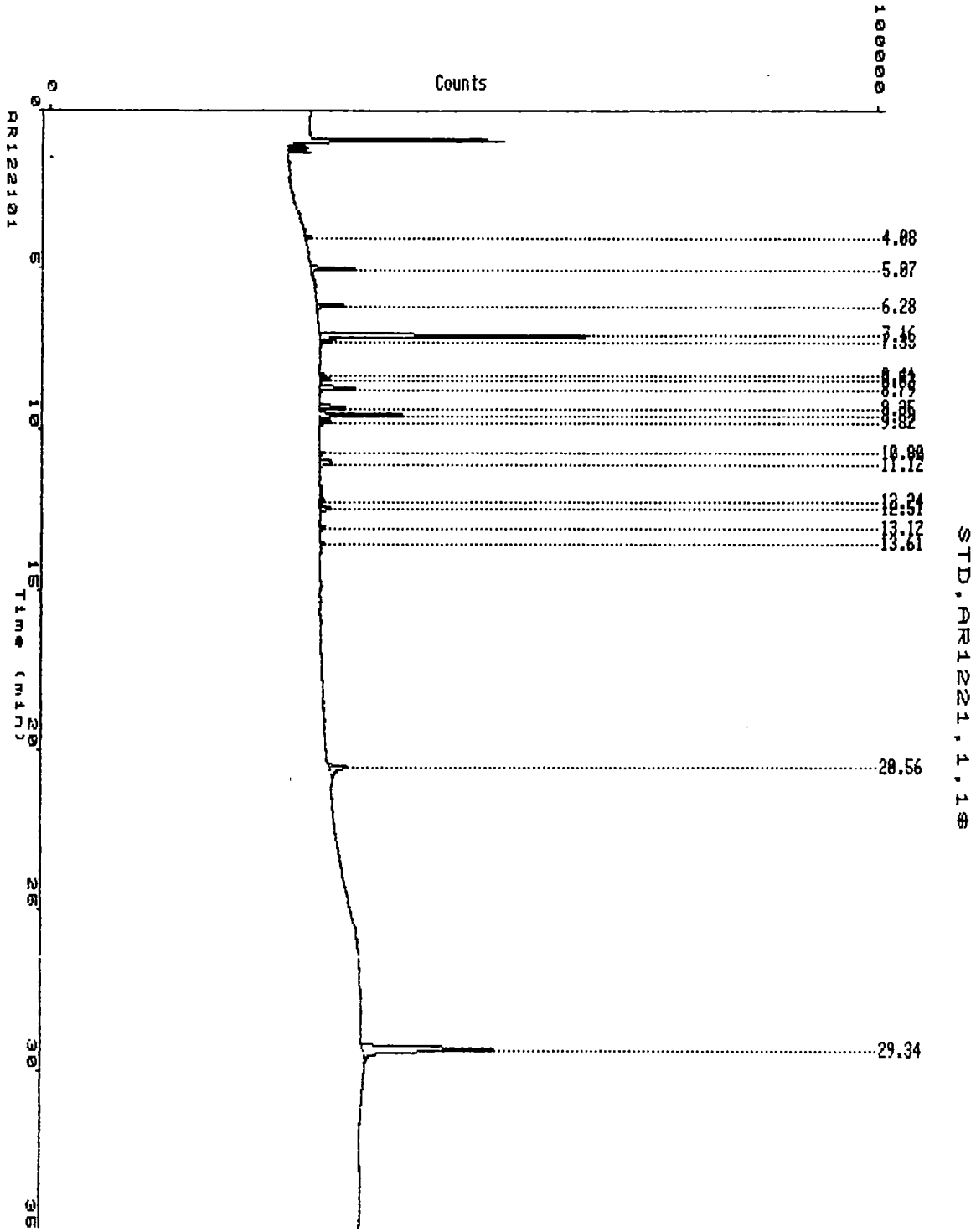
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.085			2799		BB	
	5.069			27239		BB	
TETRACL-M-XYLENE	7.163	0.45	0.01426	158001		BB	
	8.554			2764		BB	
	8.797			2772		BB	
	9.355			3092		BB	
	9.595			17640		BB	
	10.885			1775		BB	
	11.156			40622		BB	
	11.566			2890		BB	
	11.951			10015		BV	
	12.068			5531		VV	
	12.249			15982		VB	
	12.507			72403		BB	
	13.120			25748		BE	
	13.369			2560		EB	
	13.616			14080		BV	
	13.712			14755		VB	
	13.893			8138		BB	
	14.129			1866		BB	
	14.519			1381		BB	
	14.919			22959		BV	
	15.065			7328		VB	
	15.371			13843		BB	
	15.559			2423		BB	
	15.869			2360		BV	
	16.102			5987		VV	
	16.403			15999		VV	
	16.631			17401		VB	
	18.519			24017		BV	
	18.836			18628		VB	
	19.181			41498		BV	
	19.491			41384		VB	
	20.218			13910		BV	
	20.562			18370		VV	
	20.708			36415		VV	
	20.866			18942		VV	
	21.061			36167		VV	
	21.186			30289		VV	

	21.418			14215	VB
	21.906			3521	BB
	22.487			23231	BV
	22.639			7058	VV
	22.786			15281	VV
	22.972			66763	VB
	24.326			16565	BV
	24.483			8273	VV
	24.616			27469	VB
	26.297			18145	BB
DECACHLOROBIPHEN	29.352	-0.70	6.313E-03	150244	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608008.RAW;2
Report: 51884
Acquired: 30-APR-1992 13:14:59
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:48:03.12
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608008.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 13:14:59
Sample name.....AR122101
Notes.....STD,AR1221,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

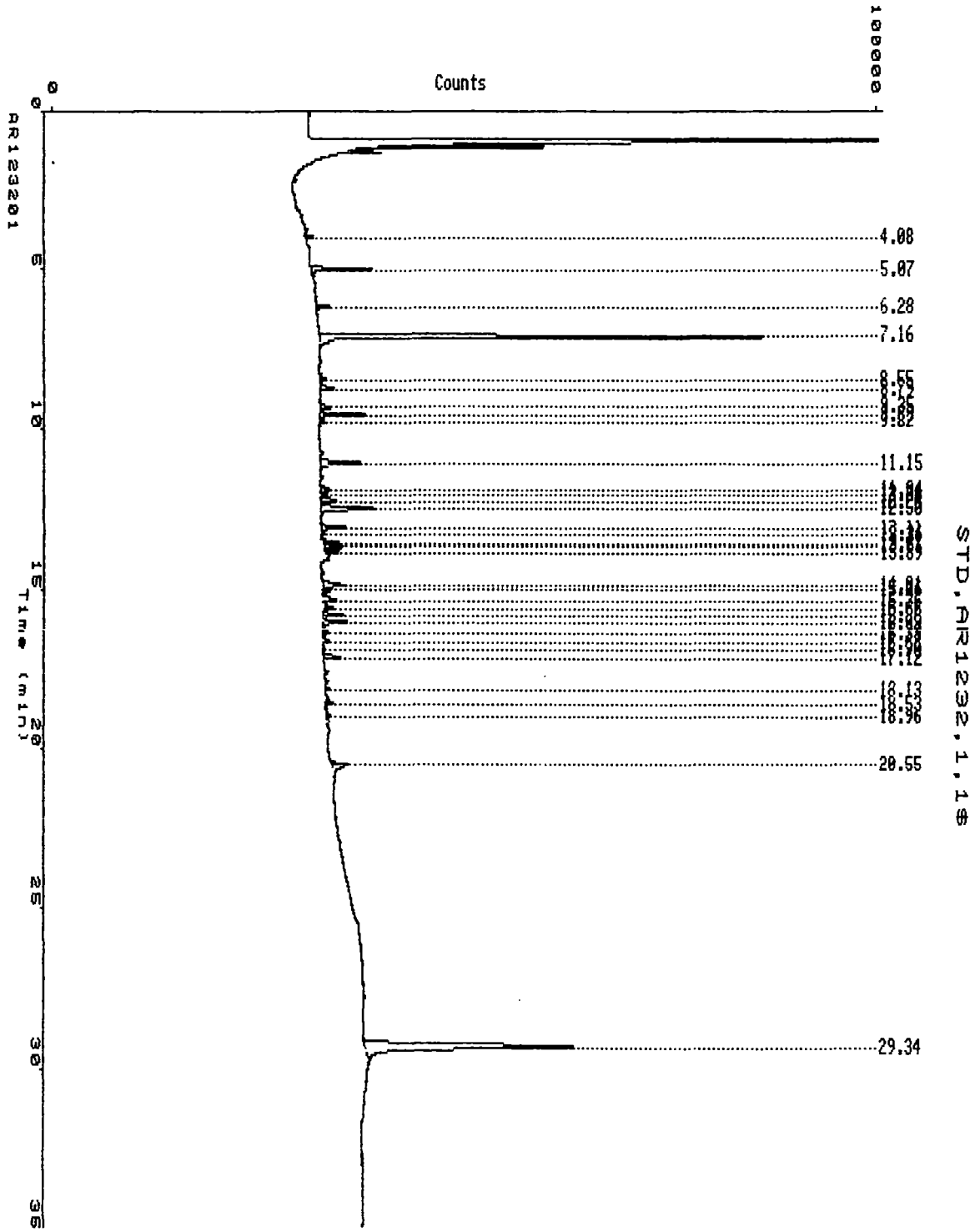
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.083			3398			BB	
	5.067			27373			BB	
	6.282			14643			BB	
TETRACL-M-XYLENE	7.160	0.57	0.01328	147189			BE	
	7.333			8653			EB	
	8.407			2903			BV	
	8.528			6902			VB	
	8.790			21793			BB	
	9.353			15124			BV	
	9.592			50503			VE	
	9.819			7342			EB	
	10.803			3687			BB	
	11.124			12791			BB	
	12.244			2137			BB	
	12.508			10079			BB	
	13.117			2506			BB	
	13.612			1541			BB	
	20.560			23763			BB	
DECACHLOROBIPHEN	29.344	-0.22	6.222E-03	148082			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608009.RAW;2
Report: 51885
Acquired: 30-APR-1992 13:55:22
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:48:41.85
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608009.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 13:55:22
Sample name.....AR123201
Notes.....STD,AR1232,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

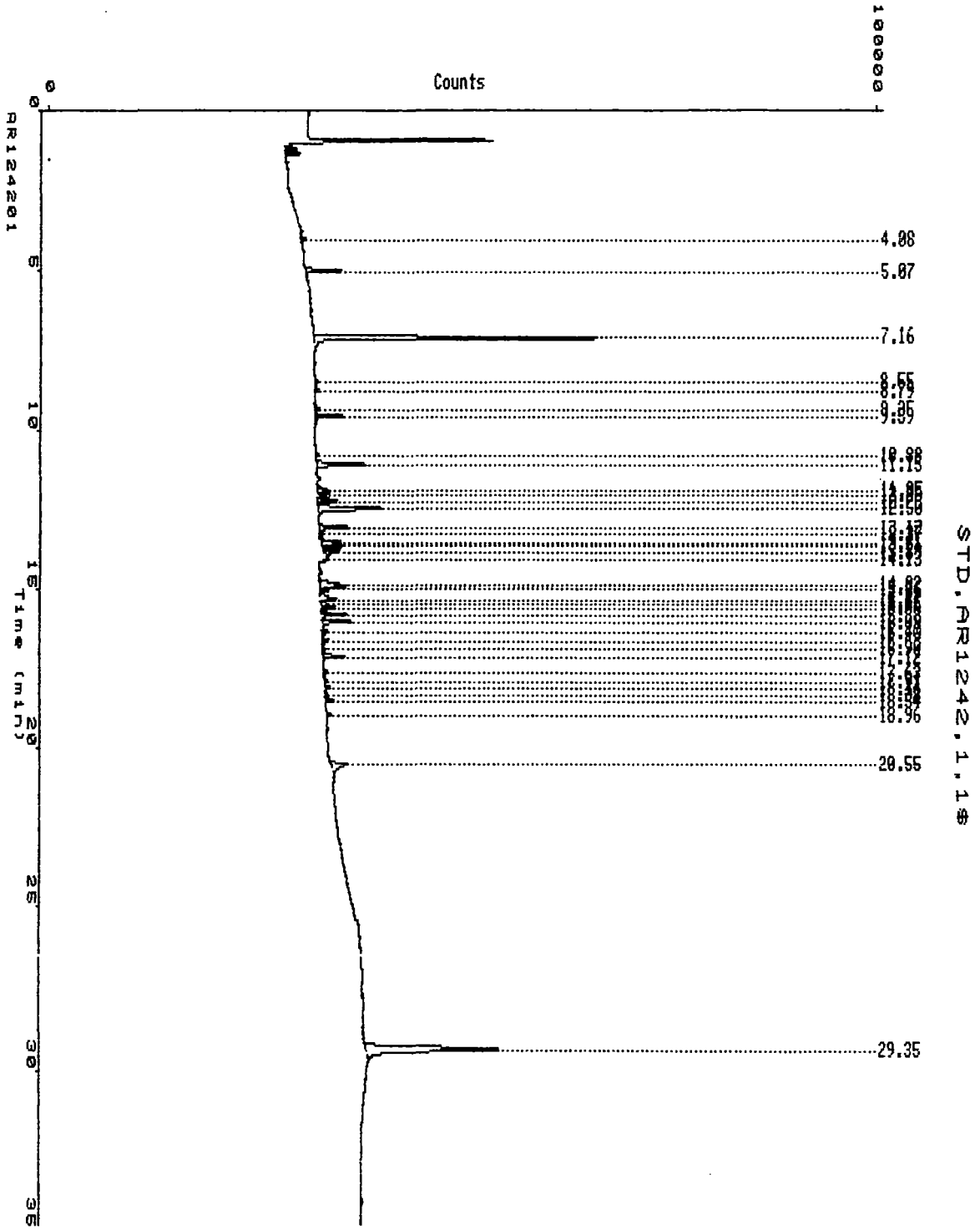
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.081			4097		BB	
	5.066			37018		BB	
	6.280			6975		BB	
TETRACL-M-XYLENE	7.158	0.73	0.02279	252587		BB	
	8.549			4493		BB	
	8.788			8818		BB	
	9.350			6106		BB	
	9.590			26143		BE	
	9.816			2489		EB	
	11.150			27954		BB	
	11.945			7930		BV	
	12.063			3766		VV	
	12.243			10453		VB	
	12.501			47080		BB	
	13.114			16262		BE	
	13.364			1752		EB	
	13.610			8830		BV	
	13.706			10451		VB	
	13.886			5713		BB	
	14.912			18216		BV	
	15.058			5144		VV	
	15.365			11066		VB	
	15.659			3892		BB	
	15.863			12382		BV	
	16.091			16637		VV	
	16.394			4661		VV	
	16.629			5385		VB	
	16.900			1418		BB	
	17.117			10685		BB	
	18.134			2306		BB	
	18.529			4235		BB	
	18.956			1696		BB	
	20.550			20253		BB	
DECACHLOROBIPHEN	29.341	-0.04	0.01049	249556		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608010.RAW;2
Report: 51886
Acquired: 30-APR-1992 14:35:44
Time range: 0.00-35.00



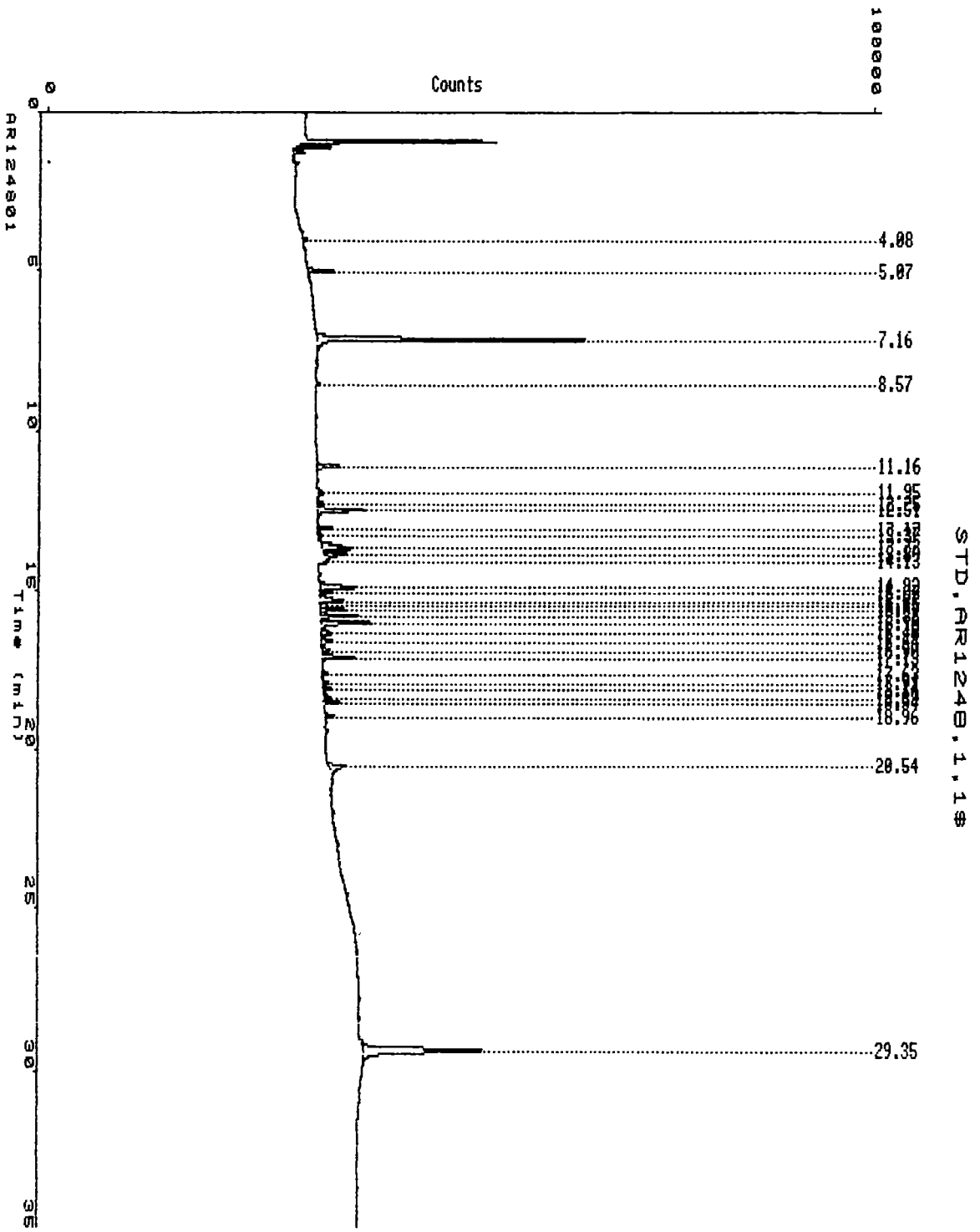
Date..... 7-MAY-1992 12:49:25.12
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608010.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 14:35:44
Sample name.....AR124201
Notes.....STD,AR1242,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.082			3025		BB	
	5.067			22424		BB	
TETRACL-M-XYLENE	7.159	0.64	0.01426	158033		BB	
	8.555			2716		BB	
	8.794			2596		BB	
	9.351			2804		BB	
	9.592			15471		BB	
	10.882			1481		BB	
	11.153			32313		BB	
	11.948			8387		BV	
	12.065			4546		VV	
	12.245			13099		VB	
	12.504			57881		BB	
	13.116			20688		BE	
	13.366			2014		EB	
	13.613			10905		BV	
	13.711			11063		VB	
	13.889			6429		BB	
	14.126			1656		BB	
	14.915			21299		BV	
	15.063			7156		VV	
	15.368			15127		VV	
	15.555			4218		VV	
	15.663			9452		VV	
	15.866			16150		VV	
	16.094			21493		VV	
	16.397			4550		VB	
	16.634			5419		BB	
	16.900			2196		BB	
	17.121			13567		BB	
	17.630			2546		BB	
	17.908			2208		BV	
	18.138			3044		VB	
	18.381			2235		BV	
	18.535			4972		VB	
	18.960			2292		BB	
	20.551			22390		BB	
DECACHLOROBIPHEN	29.348	-0.48	6.522E-03	155229		BB	

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608011.RAW;2
Report: 51887
Acquired: 30-APR-1992 15:16:09
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:50:13.65
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608011.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 15:16:09
Sample name.....AR124801
Notes.....STD,AR1248,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

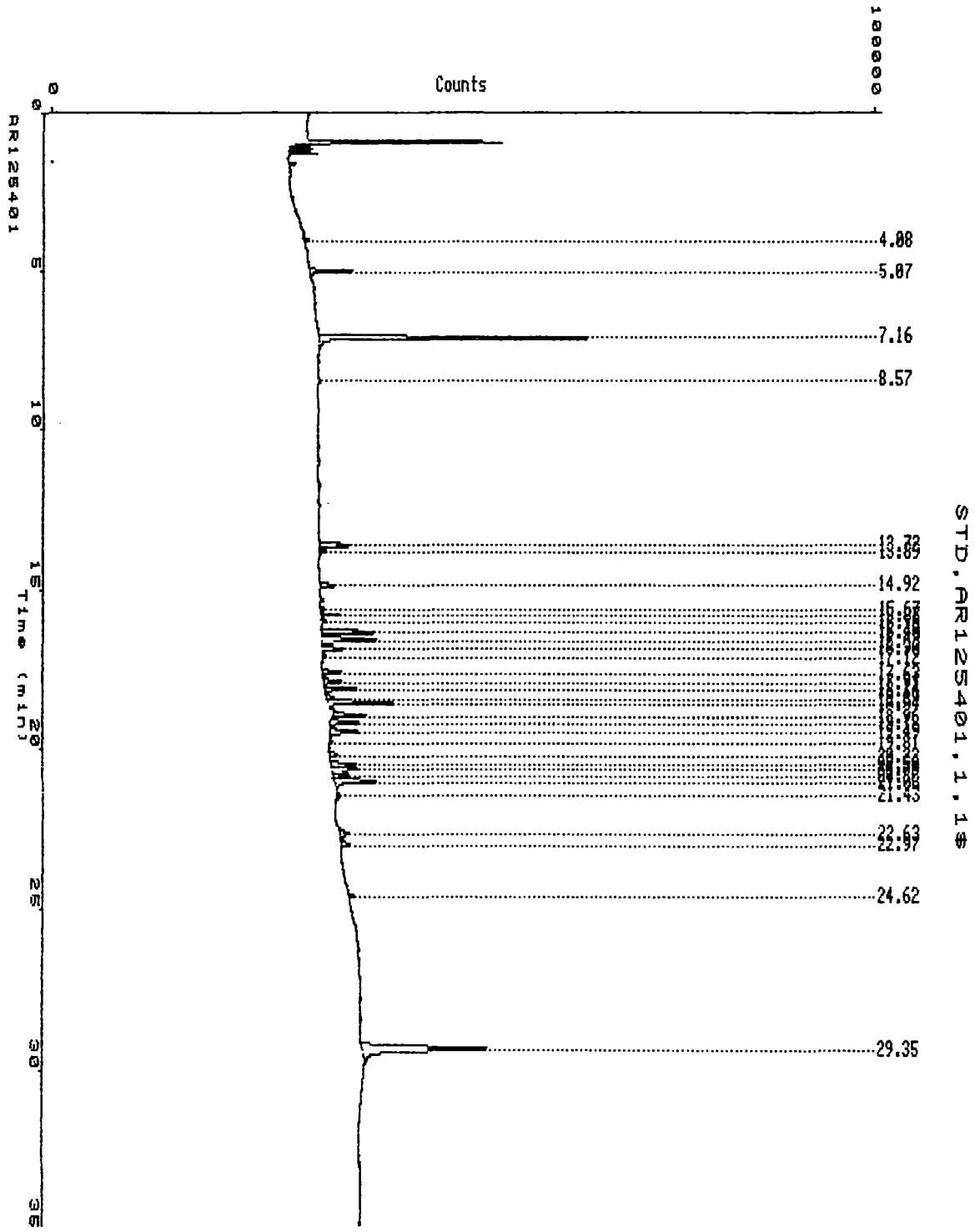
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.085			2656		BB	
	5.069			15412		BB	
TETRACL-M-XYLENE	7.162	0.46	0.01445	160109		BB	
	8.574			1448		BB	
	11.156			14192		BB	
	11.952			2691		BB	
	12.253			3400		BV	
	12.509			45131		VB	
	13.121			9008		BB	
	13.370			2430		BB	
	13.717			22355		BB	
	13.892			8264		BB	
	14.131			1973		BB	
	14.920			26522		BV	
	15.066			9113		VV	
	15.373			22952		VV	
	15.554			4790		VV	
	15.668			16880		VV	
	15.871			27064		VV	
	16.097			38748		VV	
	16.402			8587		VV	
	16.637			9272		VB	
	16.902			5629		BV	
	17.126			20952		VB	
	17.634			4524		BB	
	17.911			4642		BV	
	18.143			5302		VB	
	18.387			4787		BV	
	18.539			10125		VB	
	18.963			5804		BB	
	20.541			22189		BB	
DECACHLOROBIPHEN	29.354	-0.82	5.985E-03	142445		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608012.RAW;2
Report: 51888
Acquired: 30-APR-1992 15:56:31
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:51:11.19
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608012.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 15:56:31
Sample name.....AR125401
Notes.....STD,AR125401,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

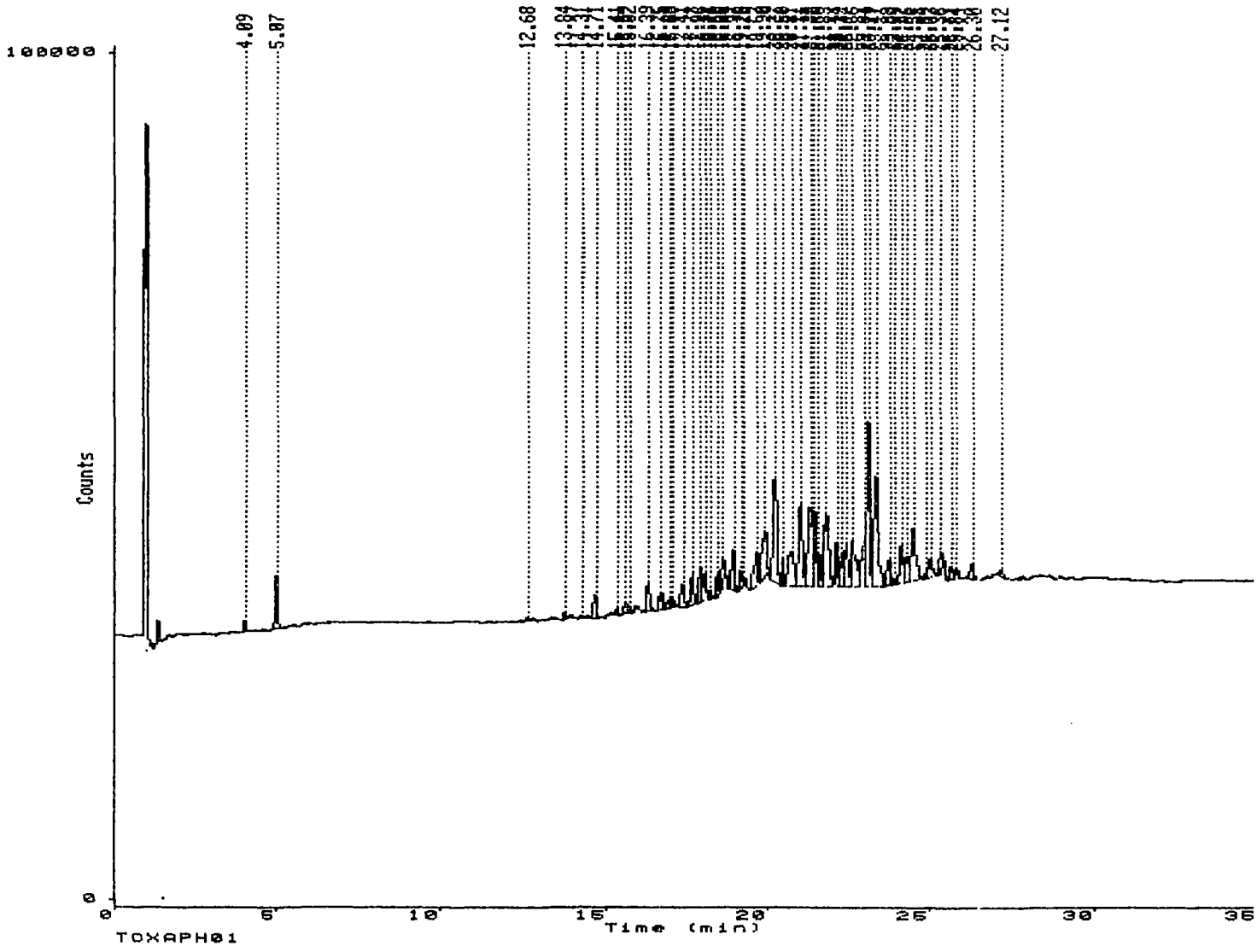
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.084			2475		BB	
	5.069			26544		BB	
TETRACL-M-XYLENE	7.162	0.47	0.01407	155974		BB	
	8.573			1424		BB	
	13.717			20063		BE	
	13.888			4052		EB	
	14.920			8409		BB	
	15.668			2090		BB	
	15.871			11647		BV	
	16.096			2759		VB	
	16.402			35662		BV	
	16.633			41598		VV	
	16.900			14107		VE	
	17.124			2226		EB	
	17.631			13016		BB	
	17.908			12161		BV	
	18.141			20673		VB	
	18.387			3798		BV	
	18.537			43540		VB	
	18.962			20091		BB	
	19.182			19148		BB	
	19.492			21748		BB	
	19.807			1635		BB	
	20.218			5707		BB	
	20.524			21965		BV	
	20.697			24435		VV	
	20.861			13482		VV	
	21.065			38141		VE	
	21.427			1737		EB	
	22.625			10300		BB	
	22.975			7170		BB	
	24.620			2991		BB	
DECACHLOROBIPHEN	29.353	-0.78	6.240E-03	148509		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

STD, TOXAPHENE, 1, 1@

Data file: NAI$DIR:[DATA.GC2]E0501-2DE608013.RAW;2
Report: 51890
Acquired: 30-APR-1992 16:36:52
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:34:24.70
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608013.RAW;2
Method file.....NAI$DIR:[DATA.GC2]EAR00503.MET;3
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 16:36:52
Sample name.....TOXAPH01
Notes.....STD,TOXAPHENE,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

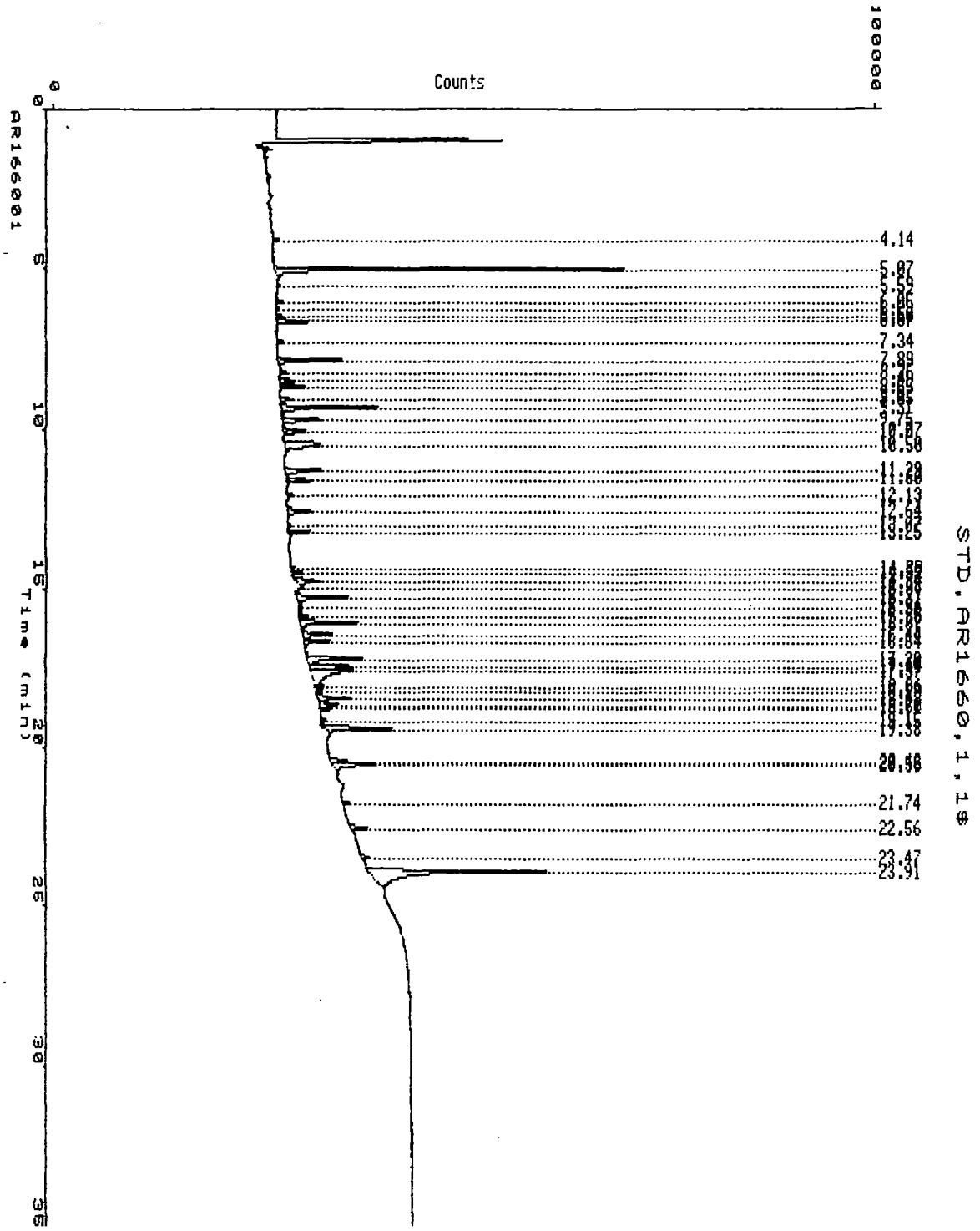
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.088			6045		BB	
TETRACL-M-XYLENE	5.072	-0.12	2.843E-03	31507		BB	
	12.682			1234		BB	
	13.842			4122		BB	
	14.310			1004		BB	
	14.713			16337		BB	
	15.413			3707		BB	
	15.695			7059		BV	
	15.820			3431		VB	
	16.394			24001		BB	
	16.748			11028		BB	
	16.979			5933		BV	
	17.085			4188		VB	
	17.411			19646		BB	
	17.731			20202		BB	
	17.957			25281		BV	
	18.122			26230		VV	
	18.267			5716		VB	
	18.503			9925		BB	
	18.658			8502		BB	
	18.973			31367		BB	
	19.178			10309		BV	
	19.280			3677		VB	
	19.671			32056		BB	
	19.902			48606		BB	
	20.270			108916		BB	
	20.502			16565		BV	
	20.806			50831		VV	
	21.109			79643		VV	
	21.373			59451		VV	
	21.481			57866		VV	
	21.627			20247		VV	
	21.835			87695		VV	
	22.142			27382		VV	
	22.316			25214		VV	
	22.466			34905		VV	
	22.663			61400		VV	
	23.041			52239		VV	
	23.193			111128		VV	

23.407	132873	VB
23.818	14895	BB
23.985	4440	BV
24.219	30462	VV
24.365	22838	VV
24.541	58538	VB
24.893	2232	BV
25.034	17515	VB
25.365	7152	BB
25.706	11104	BV
25.844	6399	VB
26.298	10234	BB
27.118	5364	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701008.RAW;2
Report: 51894
Acquired: 30-APR-1992 13:15:03
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:54:13.89
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701008.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 13:15:03
Sample name.....AR166001
Notes.....STD,AR1660,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

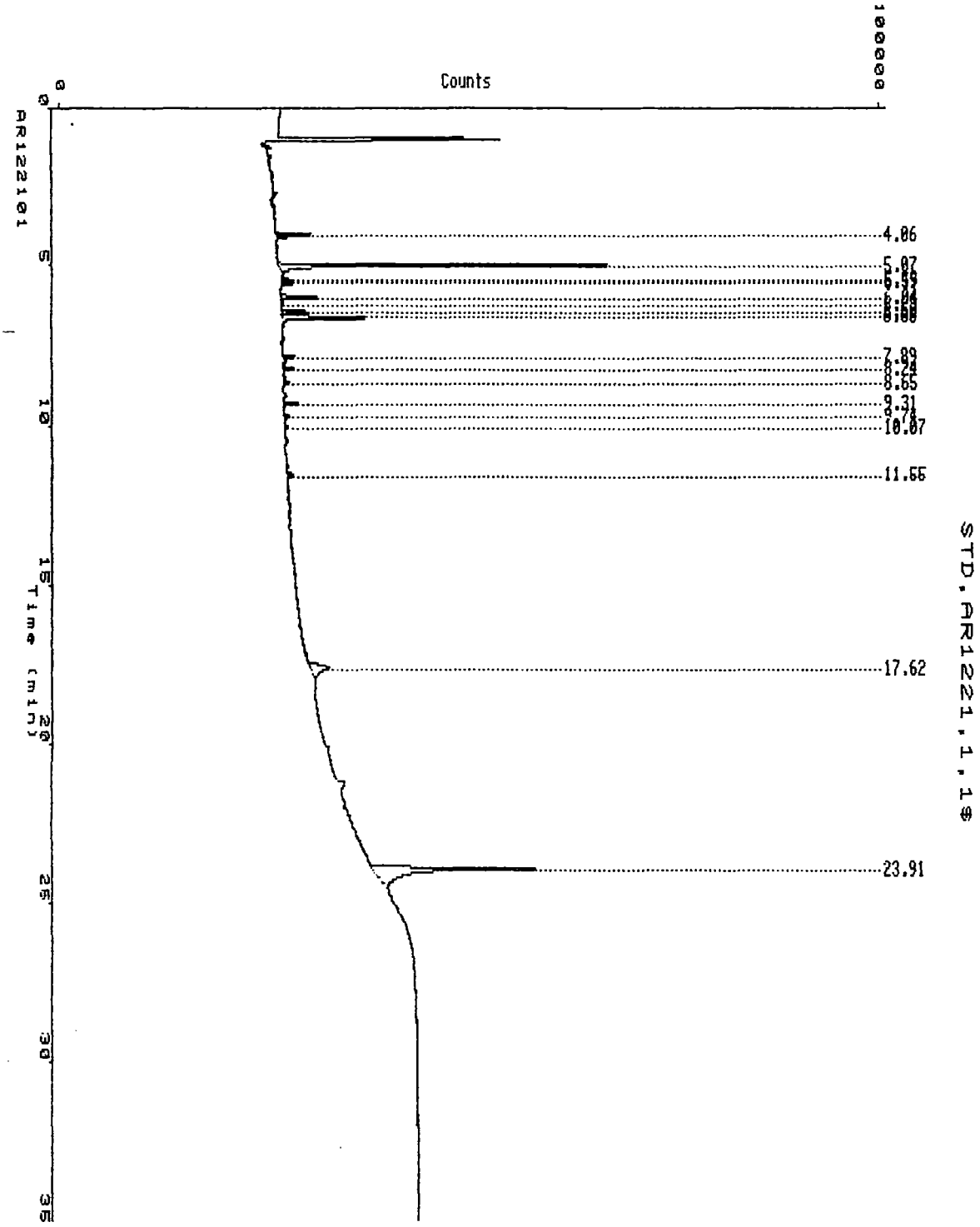
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.142			2488		BB	
TETRACL-M-XYLENE	5.074	-0.26	0.01473	163252		BB	
	5.590			1163		BB	
	6.046			2802		BB	
	6.291			991		BB	
AR1221	6.503	1.62	2.821E-03	3123		BV	
	6.666			15965		VB	
	7.340			2581		BB	
	7.889			34757		BB	
	8.253			2933		BB	
	8.491			7798		BV	
	8.647			13328		VB	
	9.052			7550		BB	
	9.308			57170		BB	
	9.746			24060		BB	
	10.071			7396		BB	
	10.498			41153		BB	
	11.289			24131		BV	
	11.599			18443		VB	
	12.129			2190		BB	
	12.638			16247		BB	
	13.068			1181		BB	
	13.254			11015		BB	
	14.375			1286		BB	
	14.516			5646		BB	
	14.840			14412		BB	
	15.044			2829		BB	
AR1248	15.306	-2.17	0.05869	33832		BE	
	15.564			2013		EB	
	15.862			4260		BB	
	16.066			37327		BB	
	16.438			20155		BV	
	16.637			17424		VB	
AR1254	17.201	3.54	0.1309	44520		BV	
	17.441			28728		VV	
	17.573			73591		VE	
	18.057			4845		EV	
	18.199			4224		EV	
	18.423			24004		VV	

	18.599			12926	VV
	18.715			6819	VB
	19.146			4736	BB
	19.379			39232	BB
	20.435			8329	BV
	20.547			35458	VB
	21.740			3946	BB
	22.562			9604	BB
	23.469			3264	BB
DECACHLOROBIPHEN	23.913	-0.20	7.496E-03	178411	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701009.RAW;2
Report: 51895
Acquired: 30-APR-1992 13:55:26
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:55:49.75
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701009.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 13:55:26
Sample name.....AR122101
Notes.....STD,AR1221,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

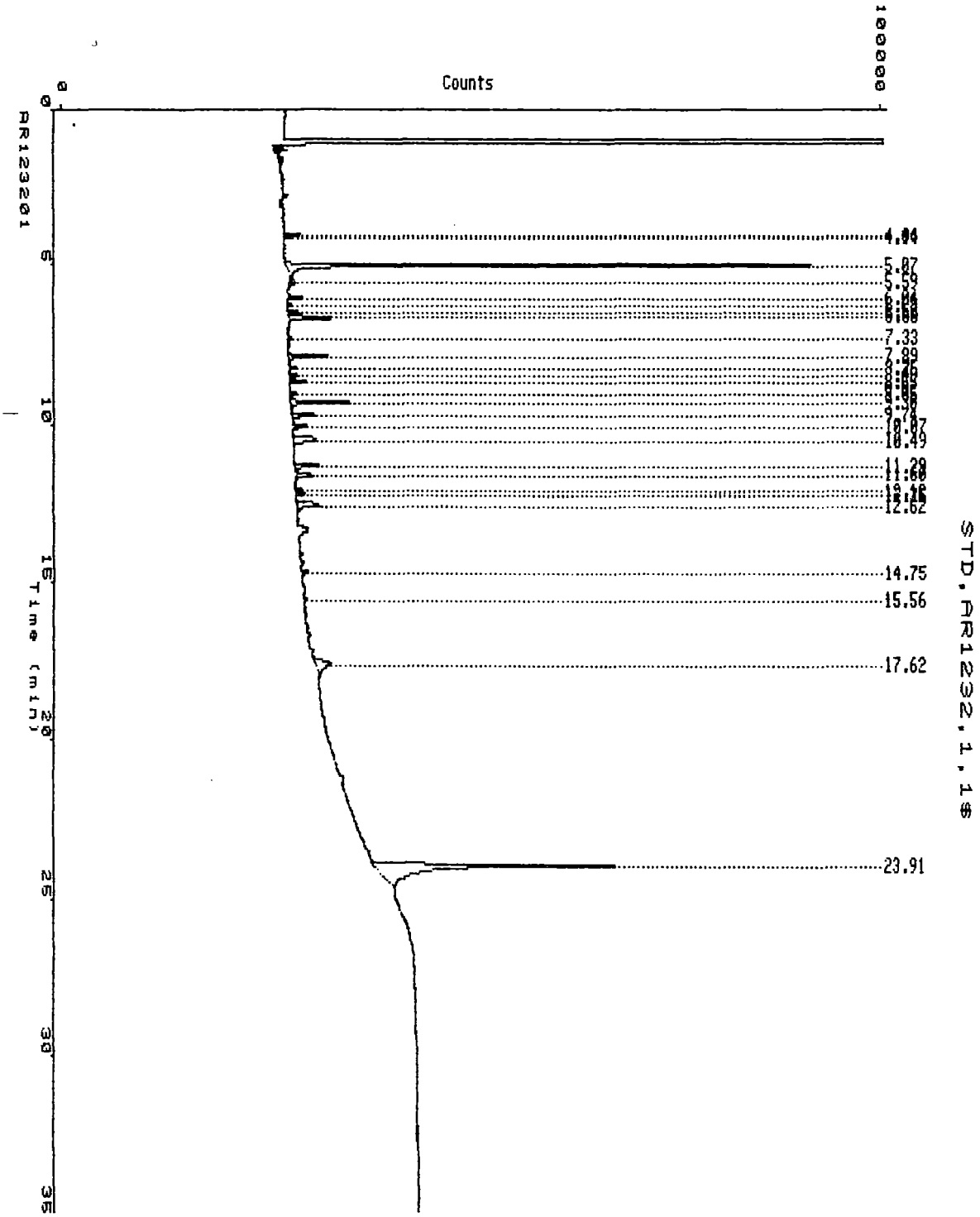
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.062			9560		BB	
TETRACL-M-XYLENE	5.072	-0.12	0.01407	155868		BB	
	5.491			2194		BV	
	5.588			5499		VB	
	6.043			18794		BE	
	6.286			1252		EB	
AR1221	6.499	1.85	0.01123	12428		BV	
	6.664			46494		VB	
	7.890			5149		BB	
	8.243			5297		BB	
	8.648			2514		BB	
	9.305			7086		BB	
	9.743			2691		BB	
	10.067			1217		BB	
	11.554			4761		BB	
	17.618			31877		BB	
DECACHLOROBIPHEN	23.912	-0.11	7.386E-03	175779		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701010.RAW;2
Report: 51897
Acquired: 30-APR-1992 14:35:48
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:56:57.12
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701010.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 14:35:48
Sample name.....AR123201
Notes.....STD,AR1232,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

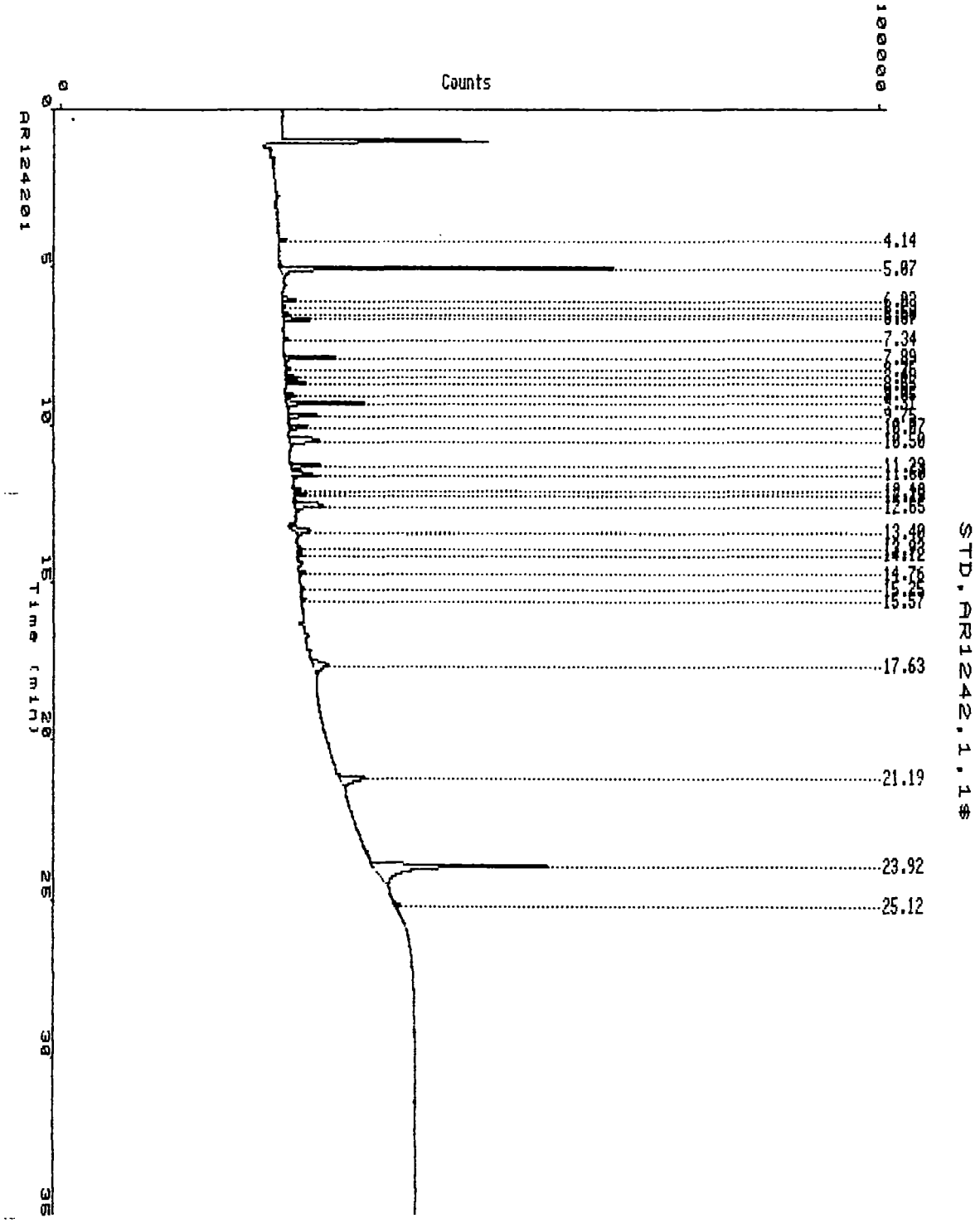
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.062			6384		BV	
	4.136			4410		VB	
TETRACL-M-XYLENE	5.071	-0.08	0.02219	245931		BB	
	5.587			2191		BB	
	6.043			6891		BB	
	6.287			1612		BB	
AR1221	6.500	1.80	5.176E-03	5731		BV	
	6.664			23205		VB	
	7.331			1727		BB	
	7.887			22227		BB	
	8.248			3172		BB	
	8.488			4703		BV	
	8.646			8826		VB	
	9.049			4308		BB	
	9.305			34717		BB	
	9.743			14332		BB	
	10.068			4618		BB	
	10.489			26193		BB	
	11.285			16528		BV	
	11.596			15608		VB	
	12.124			2551		BV	
	12.246			4603		VB	
	12.621			22402		BB	
	14.754			3158		BB	
	15.564			1722		BB	
	17.621			28205		BB	
DECACHLOROBIPHEN	23.914	-0.26	0.01163	276703		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701011.RAW;2
Report: 51899
Acquired: 30-APR-1992 15:16:13
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:58:31.02
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701011.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 15:16:13
Sample name.....AR124201
Notes.....STD,AR1242,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

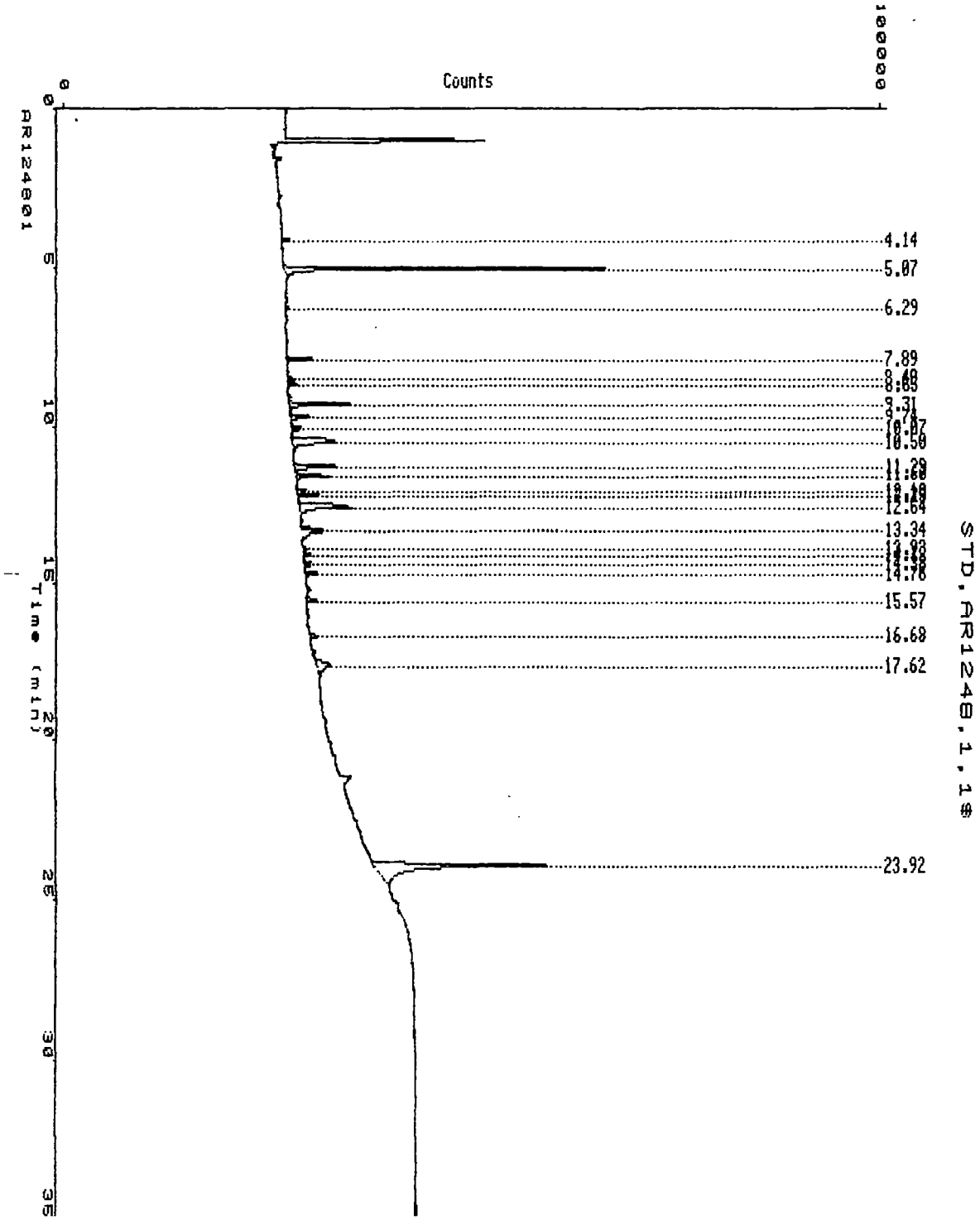
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.141			3017		BB	
TETRACL-M-XYLENE	5.074	-0.23	0.01423	157735		BB	
	6.034			6874		BB	
	6.290			1012		BB	
AR1221	6.503	1.63	2.445E-03	2707		BV	
	6.666			13504		VB	
	7.342			2131		BB	
	7.889			27415		BB	
	8.253			2382		BB	
	8.492			5993		BV	
	8.648			10605		VB	
	9.052			5985		BB	
	9.308			45192		BB	
	9.746			19326		BB	
	10.072			5786		BB	
	10.502			32427		BB	
	11.290			20043		BV	
	11.599			24236		VB	
	12.128			3634		BV	
	12.249			6668		VB	
	12.647			32013		BB	
	13.399			15315		BB	
AR1242	13.931	2.96	9.319E-03	2741		BV	
	14.116			2296		VB	
	14.757			3235		BB	
AR1248	15.253	1.05	1.452E-03	837		BB	
	15.568			2457		BB	
	17.626			26243		BB	
	21.195			34725		BB	
DECACHLOROBIPHEN	23.916	-0.38	7.648E-03	182024		BB	
	25.117			3001		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701012.RAW;2
Report: 51901
Acquired: 30-APR-1992 15:56:35
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:59:39.71
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701012.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 15:56:35
Sample name.....AR124801
Notes.....STD,AR1248,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

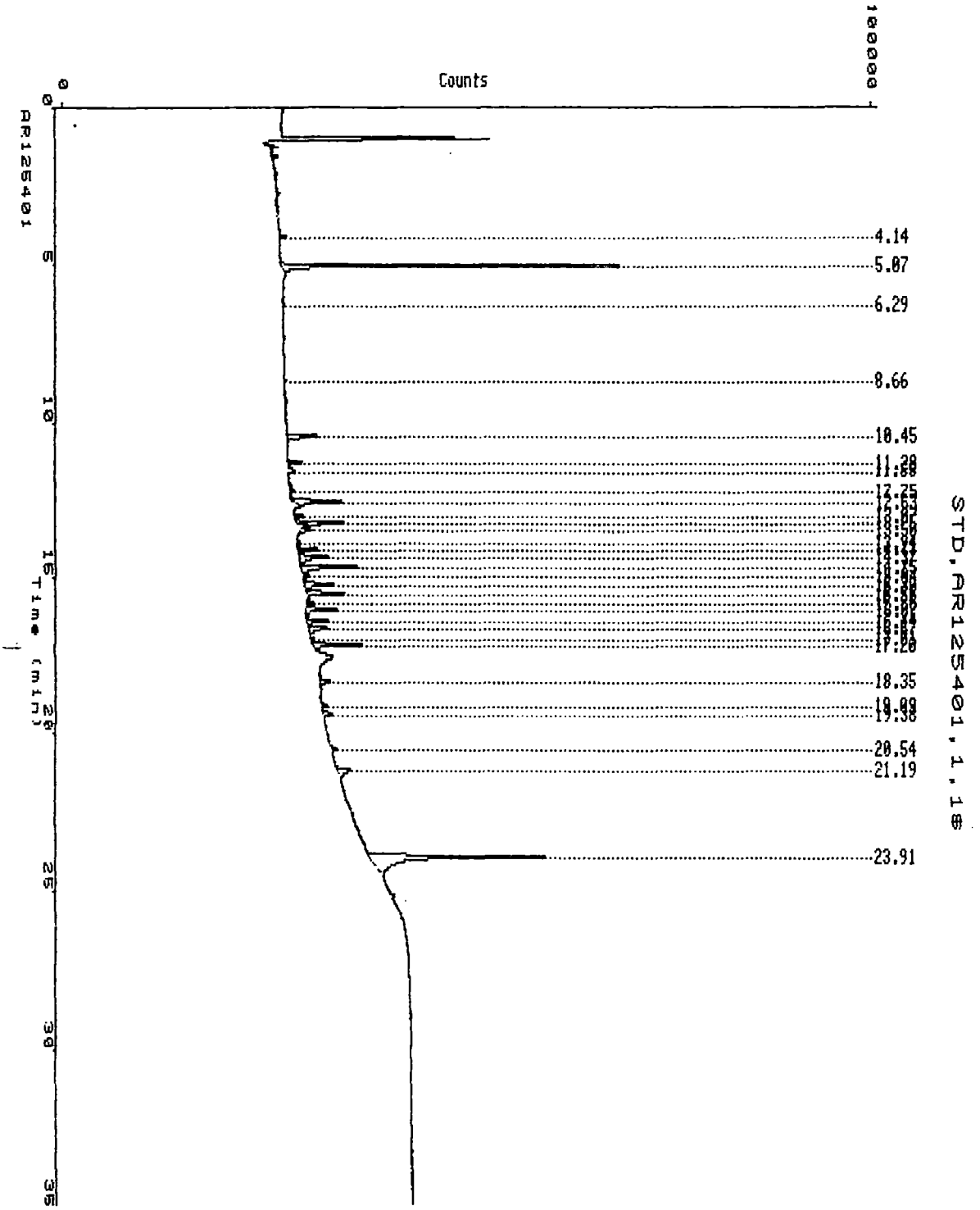
Calibration Sample name: AROCLOR

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.142			3013		BB	
TETRACL-M-XYLENE	5.074	-0.21	0.01382	153148		BB	
	6.290			997		BB	
	7.890			13288		BB	
	8.492			3388		BV	
	8.650			4233		VB	
	9.308			36417		BB	
	9.744			11581		BB	
	10.071			2521		BB	
	10.501			49555		BB	
	11.289			29076		BV	
	11.598			26948		VB	
	12.127			4538		BV	
	12.249			12005		VB	
	12.639			55249		BB	
	13.336			3573		BB	
AR1242	13.932	2.86	4.909E-03	1444		BB	
	14.116			3551		BB	
	14.378			1543		BB	
	14.756			7892		BB	
	15.566			5710		BB	
	16.685			4443		BB	
	17.622			25570		BB	
DECACHLOROBIPHEN	23.916	-0.36	7.777E-03	185080		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701013.RAW;2
Report: 51903
Acquired: 30-APR-1992 16:36:56
Time range: 0.00-35.00



Date..... 7-MAY-1992 13:01:01.81
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701013.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 16:36:56
Sample name.....AR125401
Notes.....STD,AR125401,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

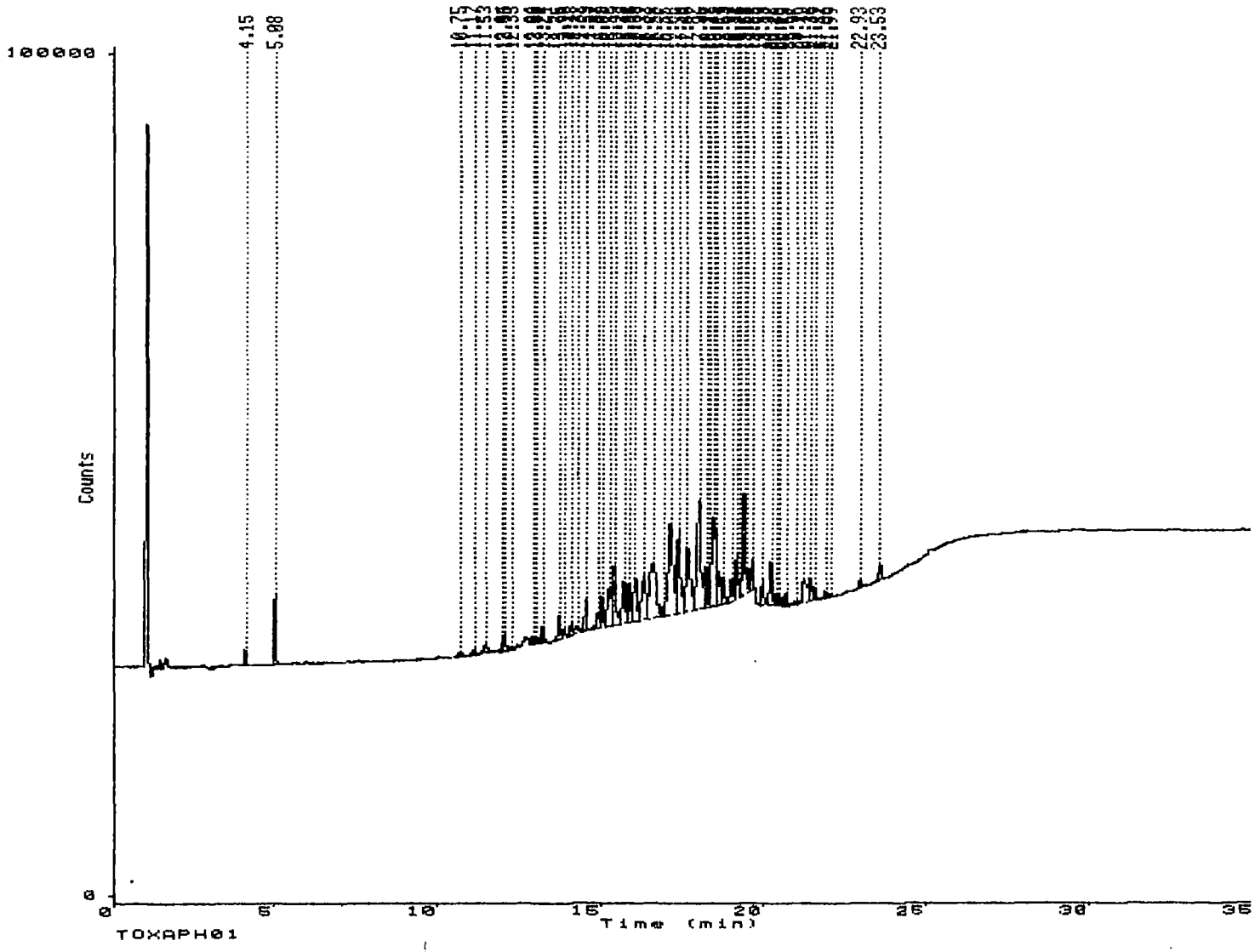
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.140			2528			BB	
TETRACL-M-XYLENE	5.072	-0.15	0.01421	157438			BB	
	6.289			1019			BB	
	8.660			687			BB	
	10.451			21438			BB	
	11.279			8327			BV	
	11.584			5633			VB	
	12.247			1501			BB	
	12.633			32224			BB	
	13.066			5187			BB	
	13.251			16724			BB	
AR1232	13.499	-1.72	0.04850	7516			BB	
AR1242	13.935	2.67	7.874E-03	2316			BB	
	14.113			10938			BB	
	14.374			25777			BB	
	14.754			41000			BE	
	15.040			5347			EB	
AR1248	15.301	-1.88	0.03799	21897			BB	
	15.563			21862			BB	
	15.860			3457			BB	
	16.065			21504			BB	
	16.442			13659			BV	
	16.673			19150			VB	
	17.015			1541			BB	
AR1254	17.205	3.32	0.09863	33553			BB	
	18.347			7655			BB	
	19.092			3716			BB	
	19.376			5608			BB	
	20.537			3410			BB	
	21.189			15529			BB	
DECACHLOROBIPHEN	23.912	-0.14	7.515E-03	178853			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701014.RAW;2
Report: 51905
Acquired: 30-APR-1992 17:17:14
Time range: 0.00-35.00

STD,TOXAPHENE,1,1$



Date..... 7-MAY-1992 13:02:49.07
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701014.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FAR00429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 17:17:14
Sample name.....TOXAPH01
Notes.....STD,TOXAPHENE,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: AROCLOR

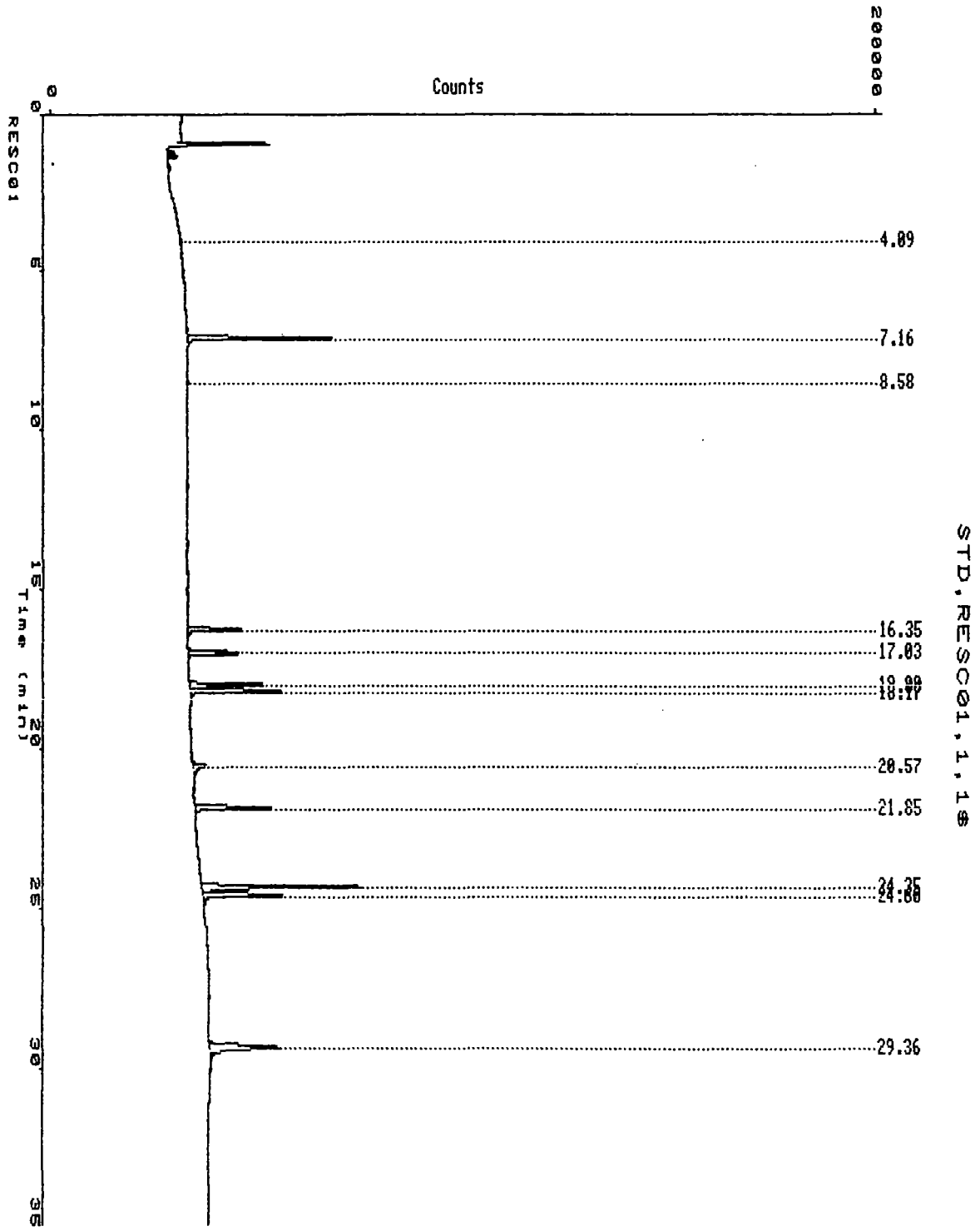
Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.150			5521		BB	
TETRACL-M-XYLENE	5.084	-0.86	2.631E-03	29151		BB	
	10.753			2290		BB	
	11.171			3767		BB	
	11.525			4636		BB	
	12.045			3976		BV	
	12.148			10596		VE	
	12.353			1476		EB	
	12.957			3334		BV	
	13.079			4802		VB	
	13.244			6508		BB	
	13.755			14471		BV	
	13.903			7419		VB	
	14.134			6048		BV	
	14.315			3945		VB	
	14.586			19855		BB	
	14.969			9792		BV	
	15.092			22045		VV	
AR1248	15.330	-3.60	0.06303	36332		VV	
	15.453			42797		VV	
	15.717			31894		VV	
	15.878			28760		VV	
	16.052			35202		VV	
	16.322			44973		VV	
	16.583			91711		VV	
	16.851			5578		VV	
	17.056			103557		VV	
AR1254	17.301	-2.44	0.1936	65873		VV	
	17.599			89693		VV	
	17.961			128001		VV	
	18.174			31254		VV	
	18.279			14589		VV	
	18.412			69715		VV	
	18.493			55624		VV	
	18.693			19475		VB	
	18.992			15943		BV	
	19.140			25791		VV	
	19.263			6942		VV	
	19.390			57002		VE	

AR1260	19.501	4.16	0.01747	11691	EV
	19.653			19071	VB
TOXAPHENE	19.994	3.94	0.1275	12258	BB
	20.229			22255	BV
	20.362			5487	VV
	20.462			3606	VB
	20.691			7044	BB
	20.945			1640	BV
	21.193			23641	VV
	21.363			20709	VV
	21.493			6359	VB
	21.860			3146	BV
	21.995			1764	VB
	22.926			4466	BB
	23.530			7780	BB

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608005.RAW;2
Report: 51881
Acquired: 30-APR-1992 11:13:46
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:46:05.53
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608005.RAW;2
Method file.....NAI$DIR:[DATA.GC2]ERES0429.MET;4
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date.....30-APR-1992 11:13:46
Sample name.....RESC01
Notes.....STD,RESC01,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

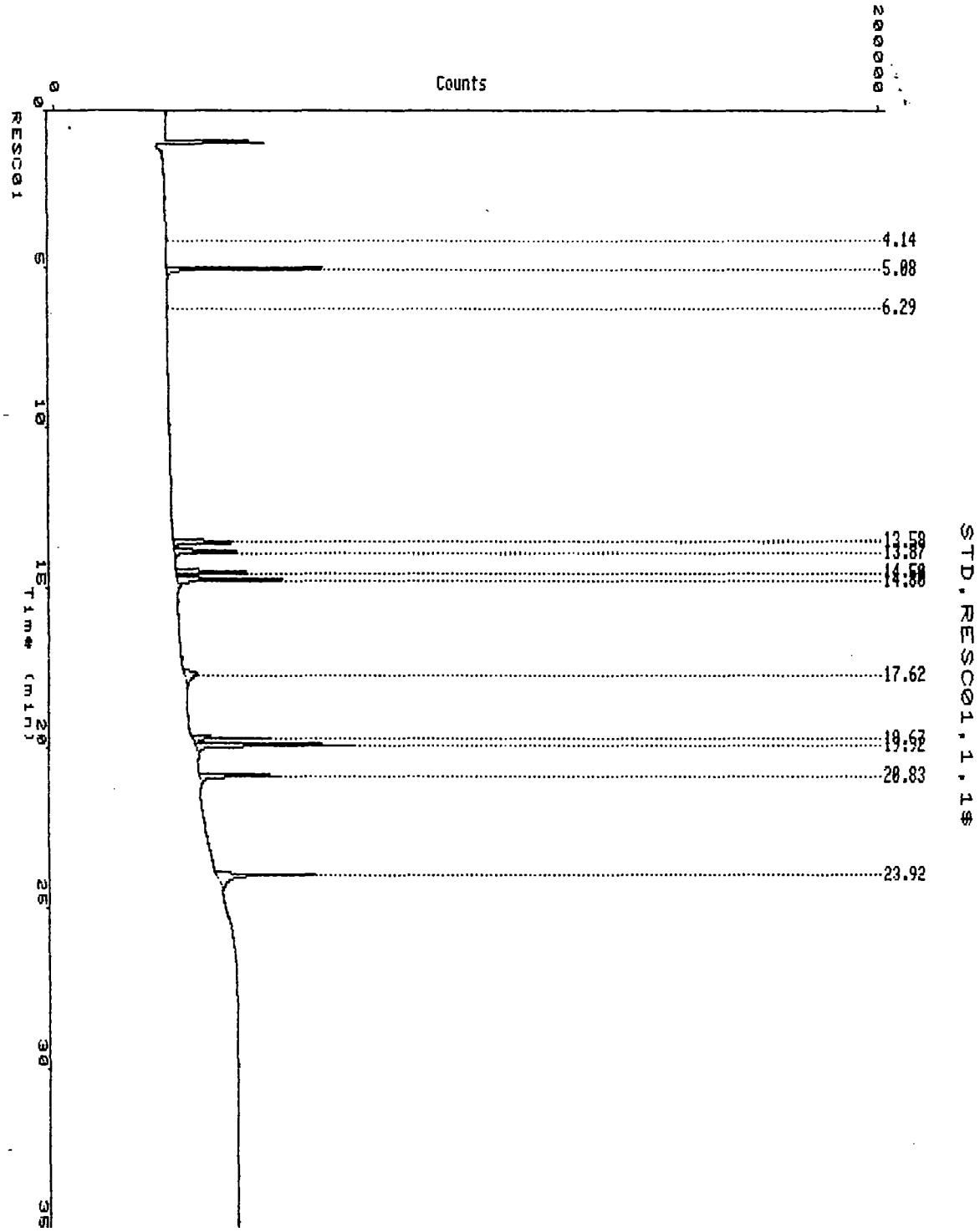
Calibration Sample name: RES

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.087			1640			BB	
TETRACL-M-XYLENE	7.165	-0.30	24.43	160605			BB	
	8.577			1608			BB	
G-CHLORDANE	16.351	-0.64	9.621	73319			BB	
ENDOSULFAN I	17.034	-0.81	11.57	70263			BB	
DDE	17.995	-0.32	17.68	96183			BV	
DIELDRIN	18.174	-0.24	22.54	126304			VB	
	20.570			38897			BB	
ENDO.SULFATE	21.854	-0.85	18.94	106365			BB	
METHOXYCHLOR	24.352	-0.75	116.2	230009			BV	
ENDRIN KETONE	24.596	-0.96	20.20	113493			VB	
DECACHLOROBIPHEN	29.364	-0.87	20.62	158622	R		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701006.RAW;2
Report: 51889
Acquired: 30-APR-1992 11:54:15
Time range: 0.00-35.00



Date..... 7-MAY-1992 12:52:07.75
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701006.RAW;2
Method file.....NAI$DIR:[DATA.GC2]FRES0429.MET;3
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date.....30-APR-1992 11:54:15
Sample name.....RESC01
Notes.....STD,RESC01,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

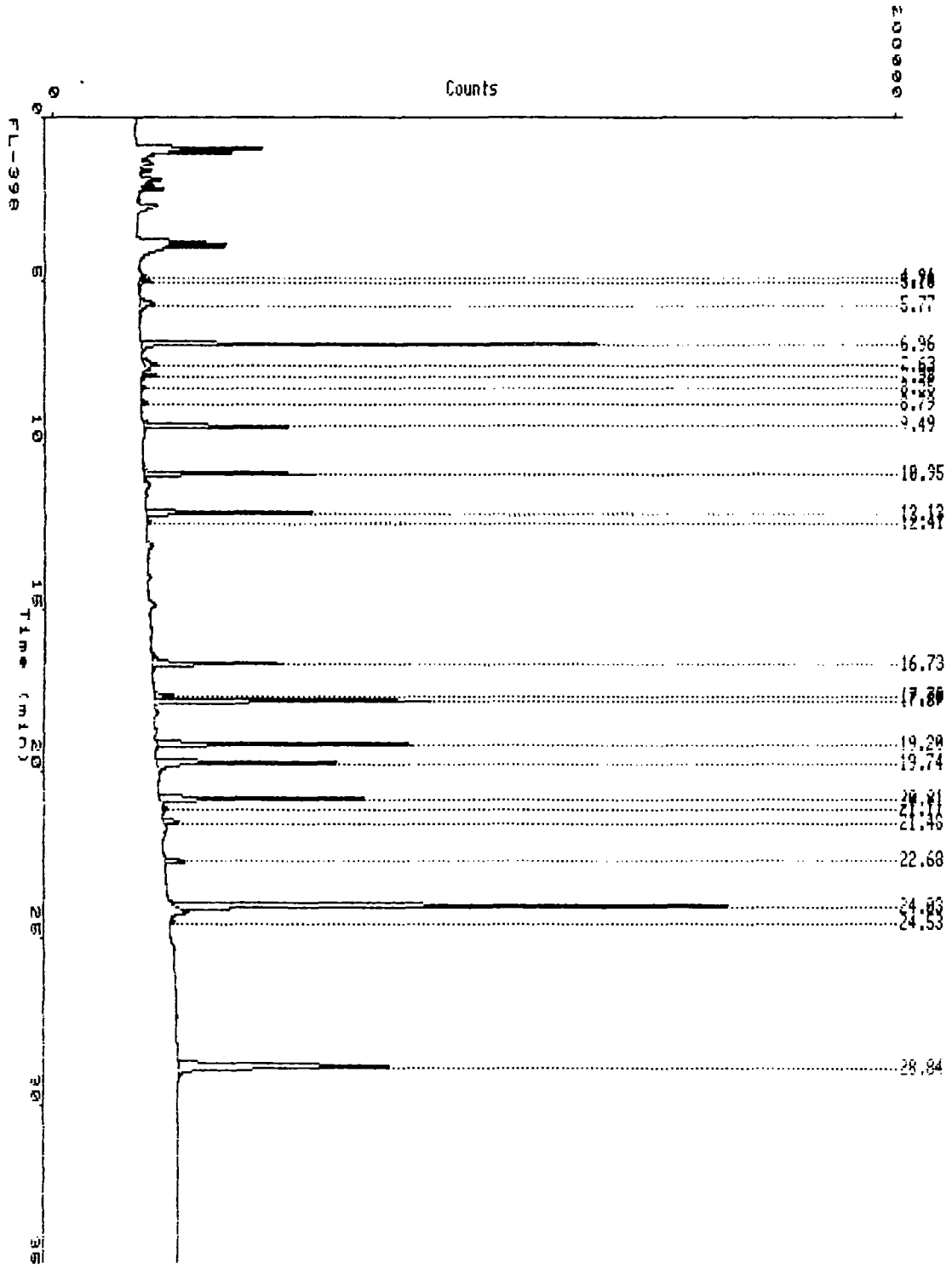
Calibration Sample name: RES

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.145			1548		BB	
TETRACL-M-XYLENE	5.077	-0.40	21.73	142867		BB	
	6.294			1125		BB	
ENDOSULFAN I	13.580	-0.58	11.84	71909		BV	
G-CHLORDANE	13.872	-0.72	10.41	79318		VB	
DDE	14.503	-0.19	15.37	83638		BV	
DIELDRIN	14.798	-0.49	23.65	132508		VB	
	17.622			55020		BB	
ENDO.SULFATE	19.668	-0.46	18.48	103781		BV	
METHOXYCHLOR	19.916	-0.36	103.3	204548		VB	
ENDRIN KETONE	20.831	-0.65	19.01	106821		BB	
DECACHLOROBIPHEN	23.916	-0.39	23.29	179197	R	BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC9]R0406-9DB608013
Report: 48038
Acquired: 6-APR-1992 01:25:52
Time range: 0.00-34.99



.NR1
.DENAI$DIR:[DATA.GC9]R0406-9DB608013
.KF
Date..... 7-APR-1992 13:53:50.15
Raw file.....NAI$DIR:[DATA.GC9]R0406-9DB608013.RAW;1
Method file.....NAI$DIR:[DATA.GC9]RSAM0404X.MET;1
Device.....Channel 18A, Model 941 Serial Num: 9016510255
Acq. date..... 6-APR-1992 01:25:52
Sample name.....FL-398
Notes.....FL-398
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

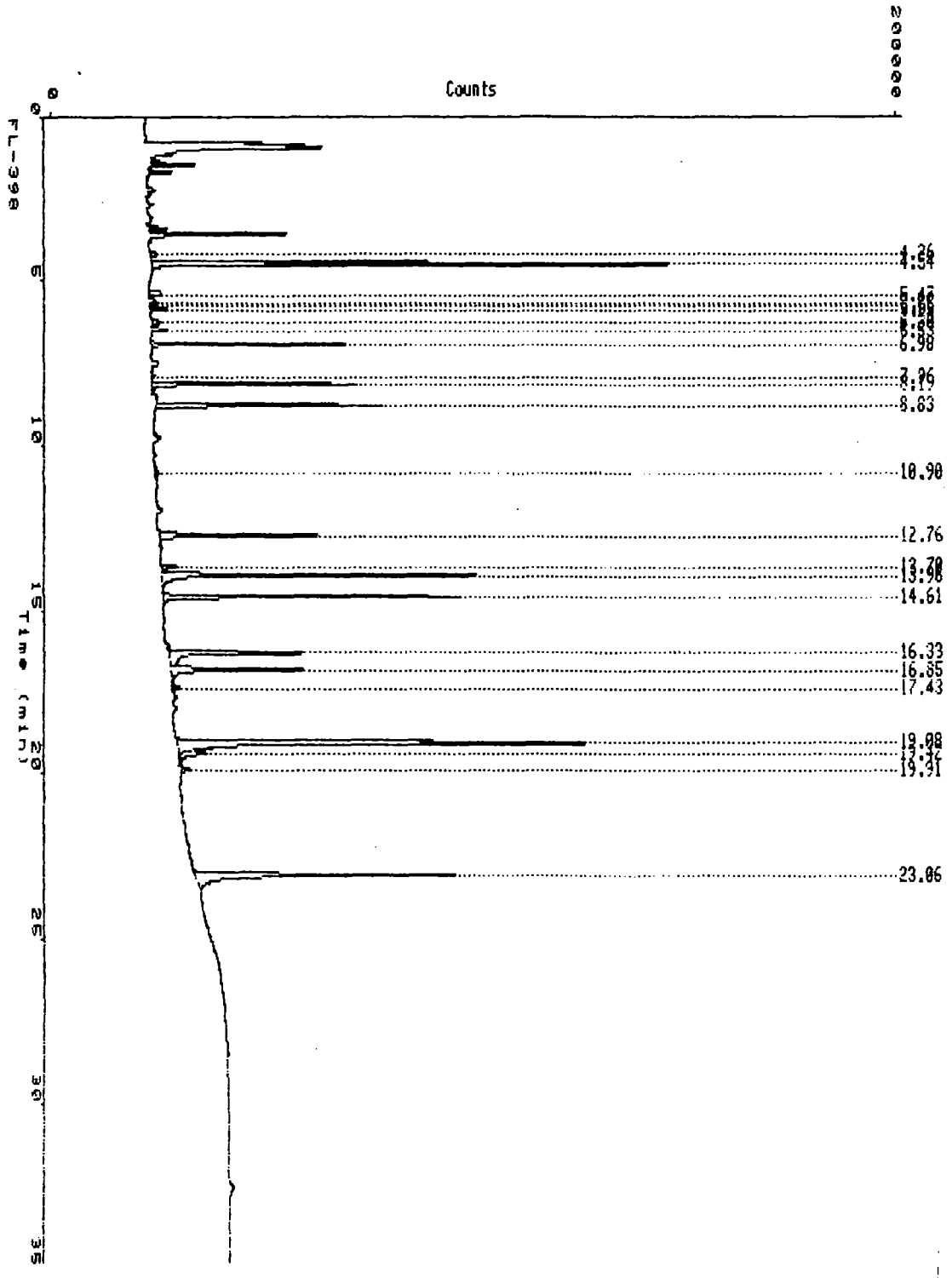
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.910			5339		BB	
	5.096			14010		BB	
	5.766			37298		BB	
TETRACHLORO-M-XY	6.960	-0.01	49.03	474903		BB	
	7.630			21366		BB	
	7.977			14295		BB	
	8.349			4513		BB	
	8.790			6512		BB	
A-BHC	9.489	-0.51	22.95	167512		BB	
G-BHC	10.952	-0.09	21.60	180781		BB	
HEPTACHLOR	12.127	-0.39	24.57	219001		BE	
	12.409			6003		EB	
ENDOSULFAN I	16.732	-0.14	26.86	195059		BB	
DDE	17.699	0.09	4.331	25726		BV	
DIELDRIN	17.868	0.13	50.79	355655		VB	
ENDRIN	19.196	-0.36	62.68	312978		BB	
DDD	19.738	0.13	57.94	247001		BB	
DDT	20.812	-0.09	58.99	255799		BV	
ENDRIN ALDEHYDE	21.111	-0.66	1.192	5317		VB	
	21.484			23016		BB	
	22.680			30330		BB	
METHOXYCHLOR	24.031	-0.04	304.1	750627		BB	
	24.528			5500		BB	
DECACHLOROBIPHEN	28.837	0.15	55.32	453086		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: NAI$DIR:[DATA.GC9]S0406-9DB1701014
Report: 47839
Acquired: 6-APR-1992 02:06:15
Time range: 0.00-34.99



.NR1
.DFNAI$DIR:[DATA.GC9]S0406-9DB1701014
.KF
Date..... 6-APR-1992 08:56:14.21
Raw file.....NAI$DIR:[DATA.GC9]S0406-9DB1701014.RAW;1
Method file.....NAI$DIR:[DATA.GC9]SSAM0404.MET;2
Device.....Channel 19A, Model 941 Serial Num: 9016510257
Acq. date..... 6-APR-1992 02:06:15
Sample name.....FL-398
Notes.....FL-398
Notes.....NEW
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

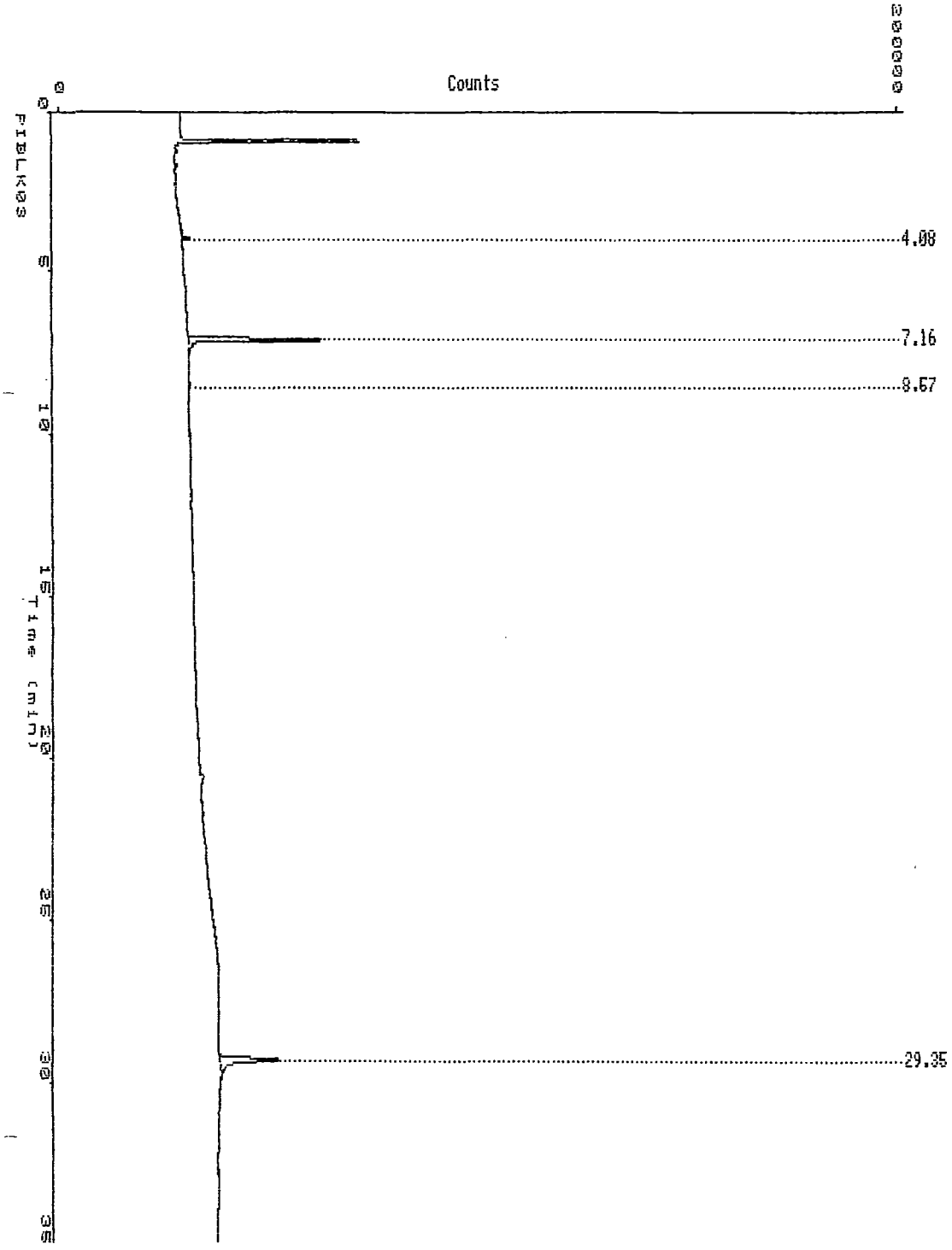
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.261			10891		BB	
TETRACHLORO-M-XY	4.539	0.67	47.51	445004		BB	
	5.470			22810		BV	
	5.682			6814		VV	
	5.765			8210		VV	
	5.931			14879		VB	
	6.305			16987		BV	
	6.533			17721		VB	
A-BHC	6.979	1.24	21.67	163313		BB	
	7.963			2368		BB	
G-BHC	8.193	1.01	22.19	186717		BB	
HEPTACHLOR	8.833	1.00	23.59	229189		BB	
	10.900			4741		BB	
ENDOSULFAN I	12.758	1.29	24.16	178951		BB	
DDE	13.700	1.17	5.426	22867		BV	
DIELDRIN	13.957	1.38	54.44	379696		VV	
ENDRIN	14.615	1.51	63.66	334559		VB	
ENDOSULFAN II	16.332	-1.91	35.22	210558		BV	
DDT	16.854	1.53	61.35	185263		VE	
	17.427			11249		EB	
METHOXYCHLOR	19.079	1.24	365.0	637662		BE	
	19.423			68459		EV	
ENDRIN KETONE	19.909	1.25	3.479	19086		VB	
DECACHLOROBIPHEN	23.056	1.42	56.28	435070		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608025
Report: 51153
Acquired: 2-MAY-1992 07:10:10
Time range: 0.00-34.99



.NR1
.DFNAI$DIR:[DATA.GC2]E0501-2DB608025
.KF
Date..... 4-MAY-1992 07:19:03.12
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608025.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 07:10:10
Sample name.....PIBLK03
Notes.....STD,PIBLK03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

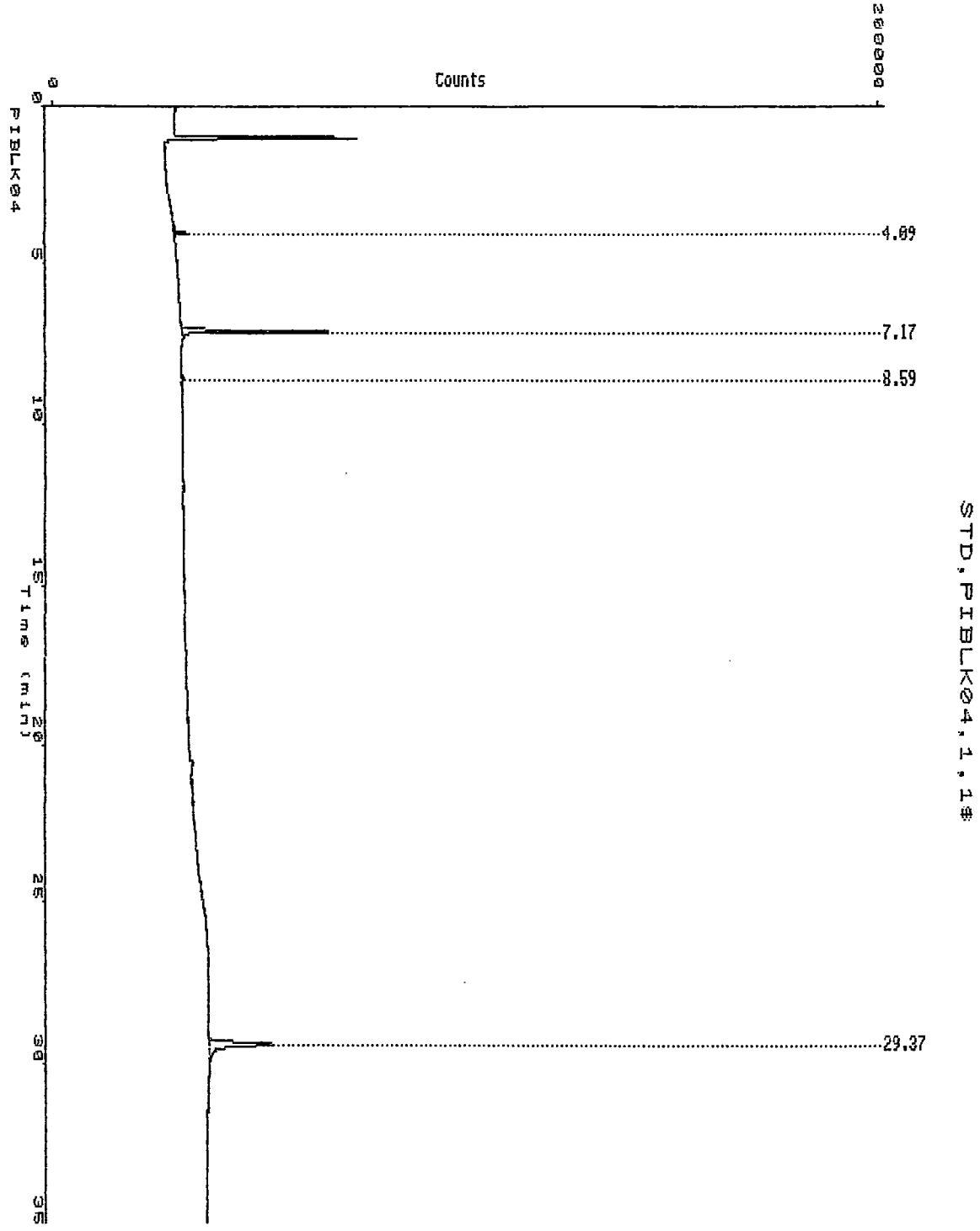
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref Std	BL	Group
	4.082			8017		BB	
TETRACL-M-XYLENE	7.161	-0.07	17.75	154912		BB	
	8.573			1270		BB	
DECACHLOROBIPHEN	29.352	-0.11	22.26	156609		BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]E0501-2DB608038.RAW;1
Report: 51071
Acquired: 2-MAY-1992 15:54:09
Time range: 0.00-35.00



Date..... 2-MAY-1992 16:29:48.82
Raw file.....NAI$DIR:[DATA.GC2]E0501-2DB608038.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;2
Device.....Channel 5A, Model 941 Serial Num: 9016510253
Acq. date..... 2-MAY-1992 15:54:09
Sample name.....PIBLK04
Notes.....STD,PIBLK04,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

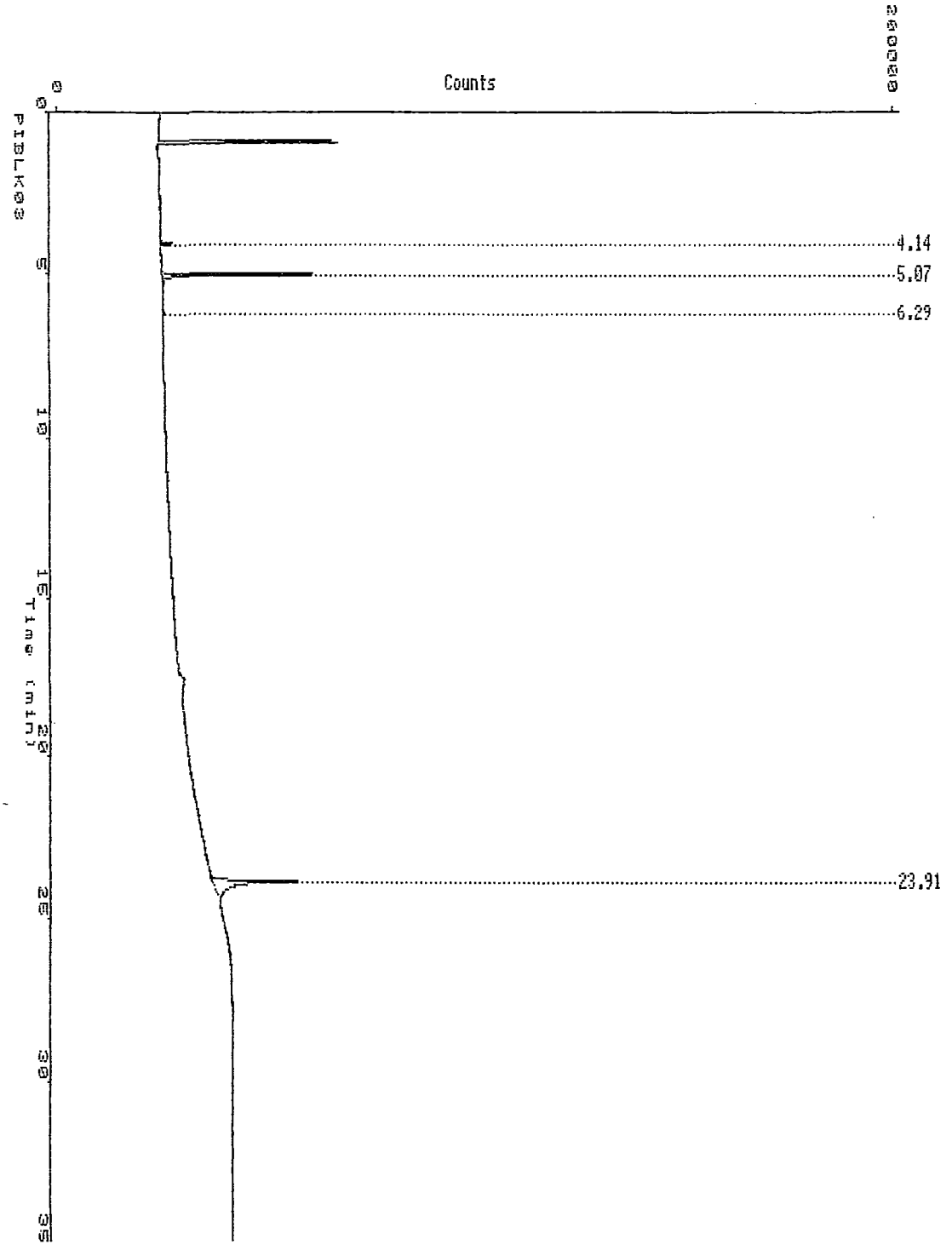
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.091			12770			BB	
TETRACL-M-XYLENE	7.174	-0.85	19.11	166828			BB	
	8.586			1573			BB	
DECACHLOROBIPHEN	29.373	-1.40	23.82	167597			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701026
Report: 51150
Acquired: 2-MAY-1992 07:50:36
Time range: 0.00-34.99



.NR1
.DFNAI$DIR:[DATA.GC2]F0501-2DB1701026
.KF
Date..... 4-MAY-1992 07:17:46.07
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701026.RAW;1
Method file.....NAI$DIR:[DATA.GC2]FSAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 07:50:36
Sample name.....PIBLK03
Notes.....STD,PIBLK03,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

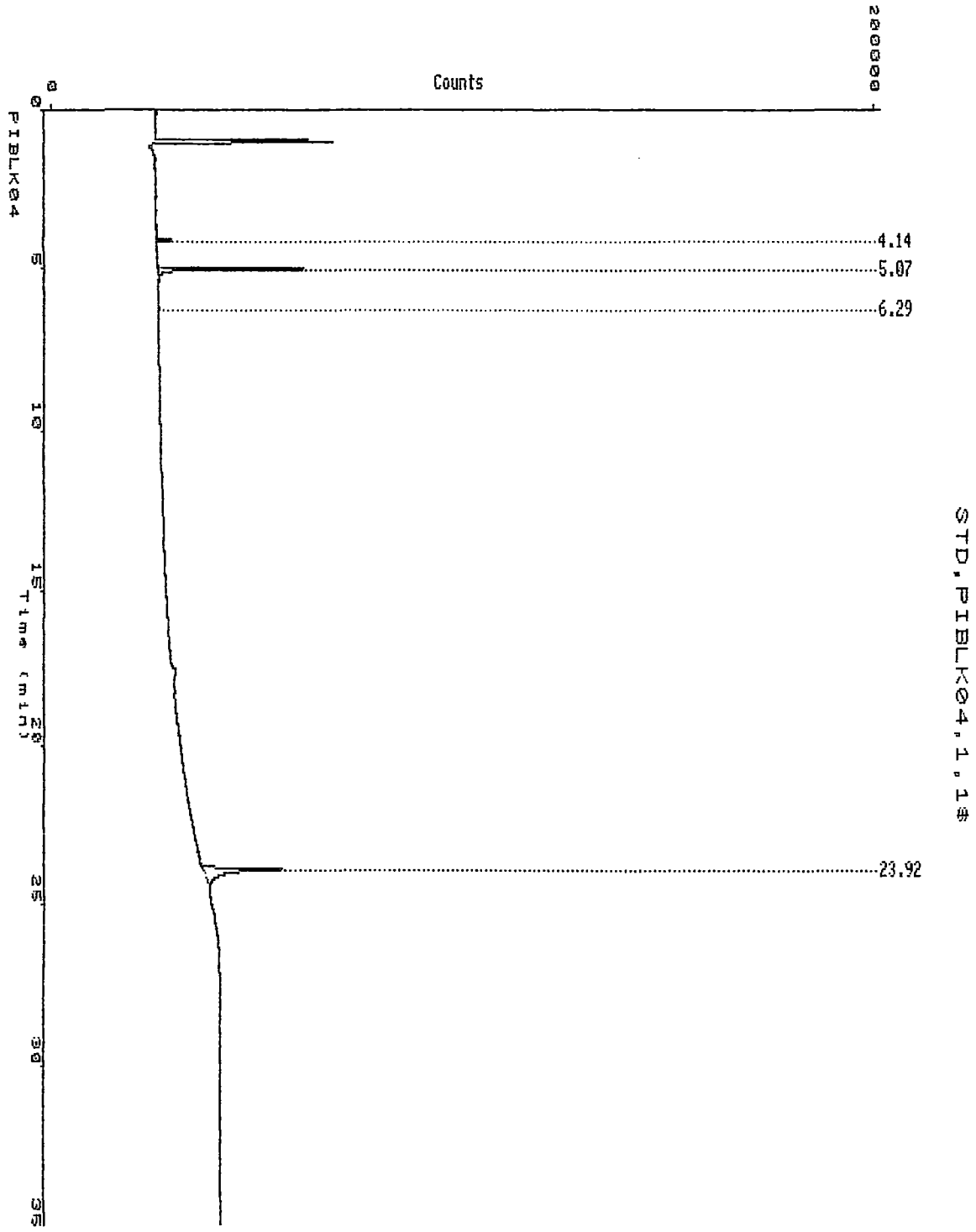
Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.136			8350			BB	
TETRACL-M-XYLENE	5.070	0.03	17.95	136807			BB	
	6.286			991			BB	
DECACHLOROBIPHEN	23.912	-0.15	20.22	180304			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)

Data file: NAI$DIR:[DATA.GC2]F0501-2DB1701039.RAW;1
Report: 51073
Acquired: 2-MAY-1992 16:34:30
Time range: 0.00-35.00



Date..... 2-MAY-1992 17:10:02.11
Raw file.....NAI$DIR:[DATA.GC2]F0501-2DB1701039.RAW;1
Method file.....NAI$DIR:[DATA.GC2]ESAM0501.MET;6
Device.....Channel 6A, Model 941 Serial Num: 9016510256
Acq. date..... 2-MAY-1992 16:34:30
Sample name.....PIBLK04
Notes.....STD,PIBLK04,1,1$
Notes.....CLP PEST/PCB ANALYSIS,1 UL INJ.
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: IND

Peak name	R.T.(min)	T.Diff	NG/ML	Peak Area	Ref	Std	BL	Group
	4.141			12198			BB	
TETRACL-M-XYLENE	5.075	-0.29	18.29	139374			BB	
	6.292			1038			BB	
DECACHLOROBIPHEN	23.921	-0.64	20.49	182711			BB	

ANALYSIS NOTES

1: Checksum error detected in raw data file. (772)