APPENDIX E

011831

RAW ANALYTICAL DATA

Beazer

BEAZER EAST, INC.
SOUTH CAVALCADE
SUPERFUND SITE
HOUSTON, TEXAS

VOLUME IV OF IV

OCTOBER 1993

137007

Dames & Moore

137007

011831

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CHESTER LABNET
RAW ANALYTICAL DATA

Volume IV

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Additional QA/QC Information

Appendix E

Reference Project: Soil Washing Pilot Study Report
South Calvacade Superfund Site

011833

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Drive
Suite 320
Charlotte, NC. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804

WORK ORDER : H93-03.269
DATE RECEIVED : 30-MAR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-03.269-001	LAB BLANK	30-MAR-1993	WATER
H93-03.269-002	SC-WR-B	30-MAR-1993	WATER

Analysis ID	Parameter Description
AS_ICP	Arsenic(ICP)
BTEX_8020	BTEX by Method 8020
COD	Chemical Oxygen Demand
CR	Chromium
EXT_8270	Extraction by EPA 8270
PH	Hydrogen ion activity (EPA 150.1)
SV_TCL	Semivolatiles (Target Compound List)
TDS	Total Dissolved Solids(EPA 160.1)
TOC	Total Organic Carbon
TSS	Total Suspended Solids

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON DOC. CONT NO:

PROJECT NO.: 18804 SITE: S. CAVALCADE

LAB NO.:H93-03.269

I. RECEIPT

A. DATE: MAR. 30, 1993

B. NO. OF SAMPLES: (1) SAMPLE.

C. CLIENT ID NUMBERS: SC-WR-B

D. SAMPLE TYPE: Recycled Wash Water

E. ANALYSIS REQUESTED: pH; TOC; COD; TSS; TDS;
cPAH(8270); BTEX(8020);
Metals- As(7060), Cr(6010).

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts. Sample SC-WR-B4 was excessively foamy, therefore lower dilutions were not achieved due to Contaimnation to GC detector System for BTEX.

I. COMMENTS:
Delay of Semi-volatile data (cPAH) due to GC/MS downtime. According to Contract, all sample data Faxed (4/06/93) as a prelimiary to receival of Data Package.

Robert R Barrientos
Robert R. Barrientos, Project Manager

April 21, 1993
Date

Summary of Analytical Results

Date received: 30-MAR-1993 Customer: Dames and Moore Job name: H93-03.269

		Samples	
Chester LabNet ID		269-001	269-002
Sampling Point		QA QC	X
Date Sampled		30-MAR-1993	30-MAR-1993
Customer ID		LAB BLANK	SC-WR-B
Parameters	**Units**		
METALS			
Arsenic	µg/L	<37.0	<37.0
Chromium	µg/L	<4.0	7.0
BTEX 8020			
Benzene	µg/L	<2.0	<100
Toluene	µg/L	<3.0	<150
Ethyl Benzene	µg/L	<3.0	<150
Total Xylenes	µg/L	<3.0	75.0
CONVENTIONAL CHEMISTRIES			
Chemical Oxygen Demand	mg/L	<20.0	3400
pH	pH units	7.12	7.18
Total Dissolved Solids	mg/L	<10.0	1020
Total Organic Carbon	mg/L	<1.0	362
Total Suspended Solids	mg/L	<2.0	300

C H E S T E R L A B N E T - H O U S T O N

WATER SURROGATE RECOVERY SUMMARY

Client Name: Dames & Moore
Chester LabNet Work Order # H93-03.269

CLIENT SAMPLE NUMBER	TFT % RECOVERY
1. LAB BLANK	110
2. SC-RW-B	110

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

TFT = TRIFLUOROTOLUENE

ADVISORY QC LIMITS (65 - 120%)

INST ID: 4530 SAMPLE NUMBER: SC-WR-B

011838

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930326902
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: TB

CASE NO.: --
GC REPORT NO.: 04/01/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

DATAFILE: 4U03269C02
DILUTION FACTOR: 2.0

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND (MICROGRAMS / LITER)
C730	BENZO(A)ANTHRACENE	20	43
C740	CHRYSENE	20	3 J
C765	BENZO(B)FLUORANTHENE	20	20 J
C770	BENZO(K)FLUORANTHENE	20	10 J
C775	BENZO(A)PYRENE	20	24
C780	INDENO(1,2,3-CD)PYRENE	20	7 J
C795	DIBENZO(A,H)ANTHRACENE	20	3 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

110 ppb

000004

INST ID: 4530 SAMPLE NUMBER: SC-WR-3

011839

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930326902
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: RB

CASE NO.: --
QC REPORT NO.: 04/01/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 03/30/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93

DATAFILE: 4U03269C02
DILUTION FACTOR: 20

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND (MICROGRAMS / LITER)
C450	NAPHTHALENE	20	1100
C540	ACENAPHTHYLENE	20	12 J
C550	ACENAPHTHENE	20	100
C590	FLUORENE	20	410
C640	PHENANTHRENE	20	780
C645	ANTHRACENE	20	200
C655	FLUORANTHENE	20	290
C715	PYRENE	20	230
C730	BENZO(A)ANTHRACENE	20	43
C740	CHRYSENE	20	3 J
C765	BENZO(B)FLUORANTHENE	20	20 J
C770	BENZO(K)FLUORANTHENE	20	10 J
C775	BENZO(A)PYRENE	20	24
C780	INDENO(1,2,3-CD)PYRENE	20	7 J
C785	DIBENZO(A,H)ANTHRACENE	20	3 J
C790	BENZO(GHI)PERYLENE	20	2 J

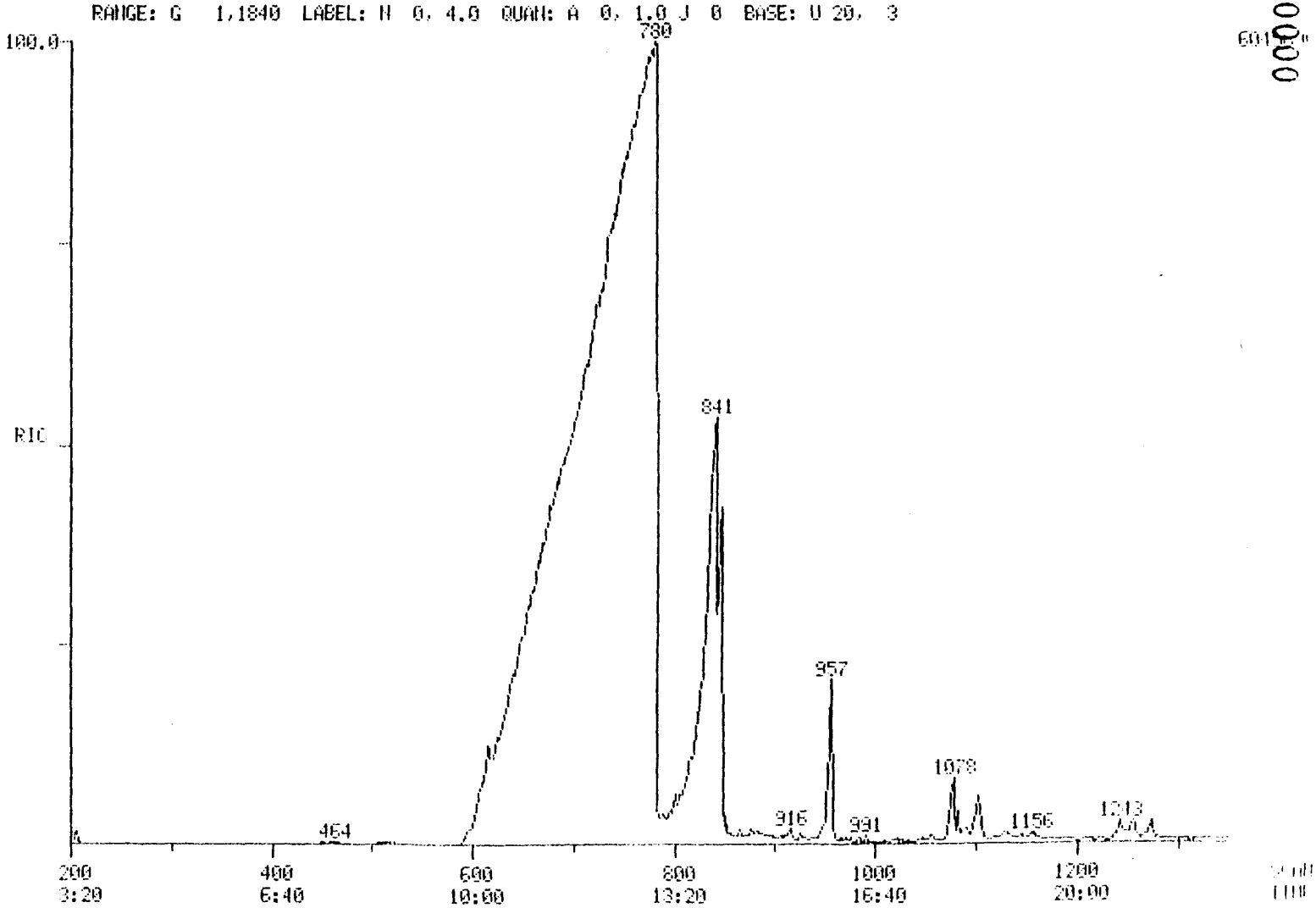
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

3234 ppb

CHESTER LABNET DC # ---14

RIC
04/05/93 20:59:00
SAMPLE: SC-WR-B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U03269C02 #1 SCANS 200 TO 1350
CALI: 4U03269C02 #3



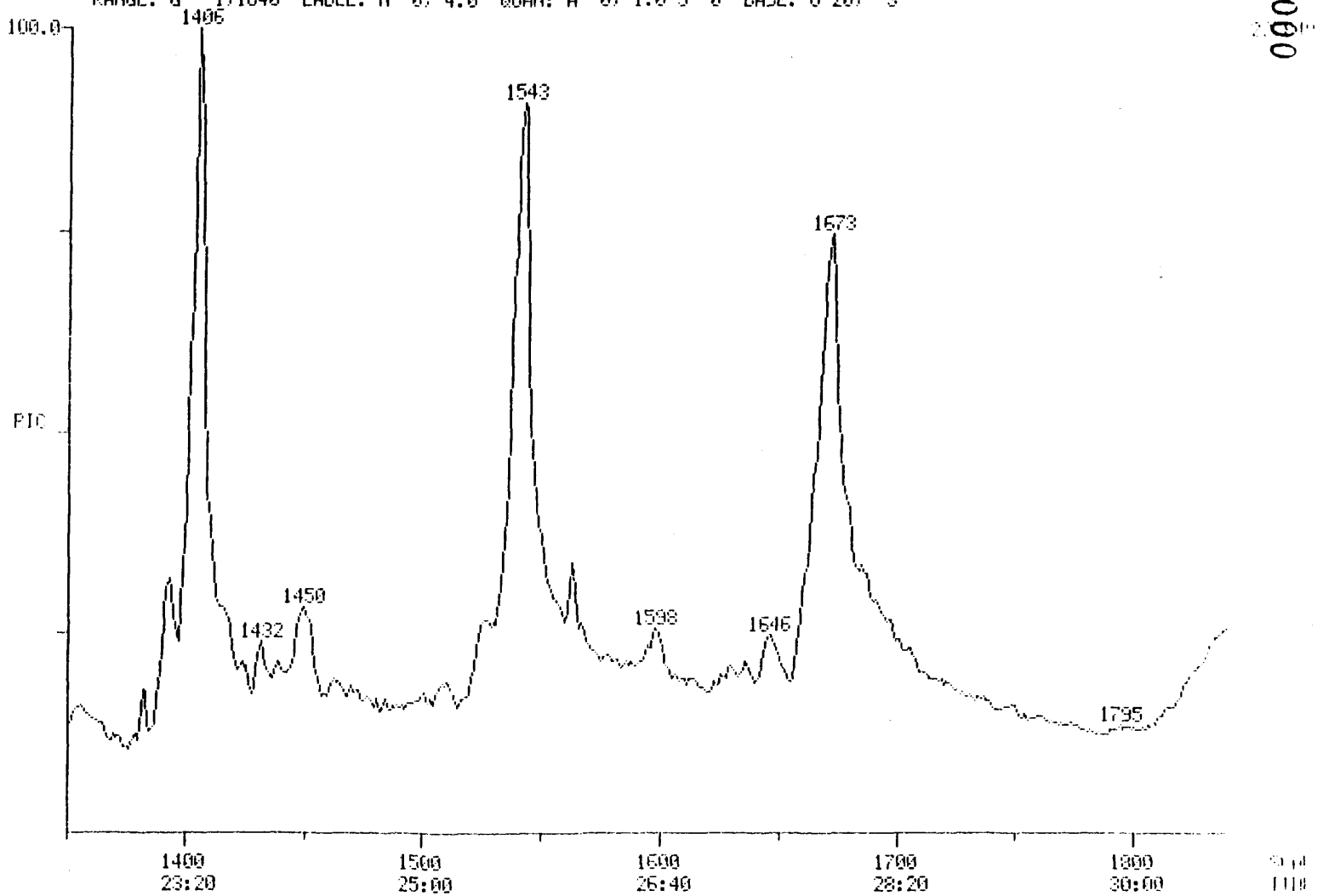
INST ID: 4530

900006

011840

RIC
04/05/93 20:59:00
SAMPLE: SC-WR-B
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4U03269C02 #1 SCANS 1350 TO 1840
CALI: 4U03269C02 #3



CHESTER LABNET SC # ---14

INST ID: 4530

100000

011841

011841

CHESTER LABNET DC # ---14

011842

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SC-WR-B		
FILENAME	4U03269C02	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/05/93 20:59:00	VERIFIED BY	
CALIB STD DATE	04/01/93	CORR. FACTOR	2.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
423	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	40 UG/L	1.000	88
613	CI40	NAPHTHALENE-D8 ** IS2 **	136	40 UG/L	1.000	390
881	CI50	ACENAPHTHENE-D10 ** IS3 **	164	40 UG/L	1.000	248
1074	CI60	PHENANTHRENE-D10 ** IS4 **	188	40 UG/L	1.000	421
1449	CI70	CHRYSENE-D12 ** IS5 **	240	40 UG/L	1.000	289
1645	CI75	PERYLENE-D12 ** IS6 **	264	40 UG/L	1.000	301
616	C450	NAPHTHALENE	128	1081 UG/L	1.005	110260
871	C540	ACENAPHTHYLENE	152	12 UG/L	0.989	124
877	C550	ACENAPHTHENE	153	104 UG/L	0.995	572
956	C590	FLUORENE	166	415 UG/L	1.085	34638
1078	C640	PHENANTHRENE	178	778 UG/L	1.004	92001
1082	C645	ANTHRACENE	178	204 UG/L	1.007	22900
1243	C655	FLUORANTHENE	202	286 UG/L	1.157	36088
1274	C715	PYRENE	202	231 UG/L	0.879	25259
1453	C730	BENZO(A)ANTHRACENE	228	43 UG/L	1.003	4210
1464	C740	CHRYSENE	228	3 UG/L	1.010	208
1598	C765	BENZO(B)FLUORANTHENE	252	20 UG/L	0.971	2555
1600	C770	BENZO(K)FLUORANTHENE	252	10 UG/L	0.973	920
1637	C775	BENZO(A)PYRENE	252	24 UG/L	0.995	2217
1794	C780	INDENO(1,2,3-CD)PYRENE	276	7 UG/L	1.091	704
1799	C785	DIBENZO(A,H)ANTHRACENE	278	3 UG/L	1.094	220
1836	C790	BENZO(GHI)PERYLENE	276	2 UG/L	1.116	172

000008

011843

Chester LabNet - HOUSTON

Reported on : 7-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-03.269
Sample ID	: KAB0406-032	Date Received	: 30-MAR-1993
Sample Name	: H93-03.269-002 (1/50)	Matrix	: WATER
Project No.	: 18804	Date Collected	: 30-MAR-1993
Checked by	: MJM	Client ID	: SC-WR-B

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 7-APR-1993 14:47 Dilution Factor : 50.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	100	100 U
108-88-3	Toluene	150	150 U
100-41-4	Ethylbenzene	150	150 U
106-42-3	Total Xylenes	150	75 J

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

000009

011843

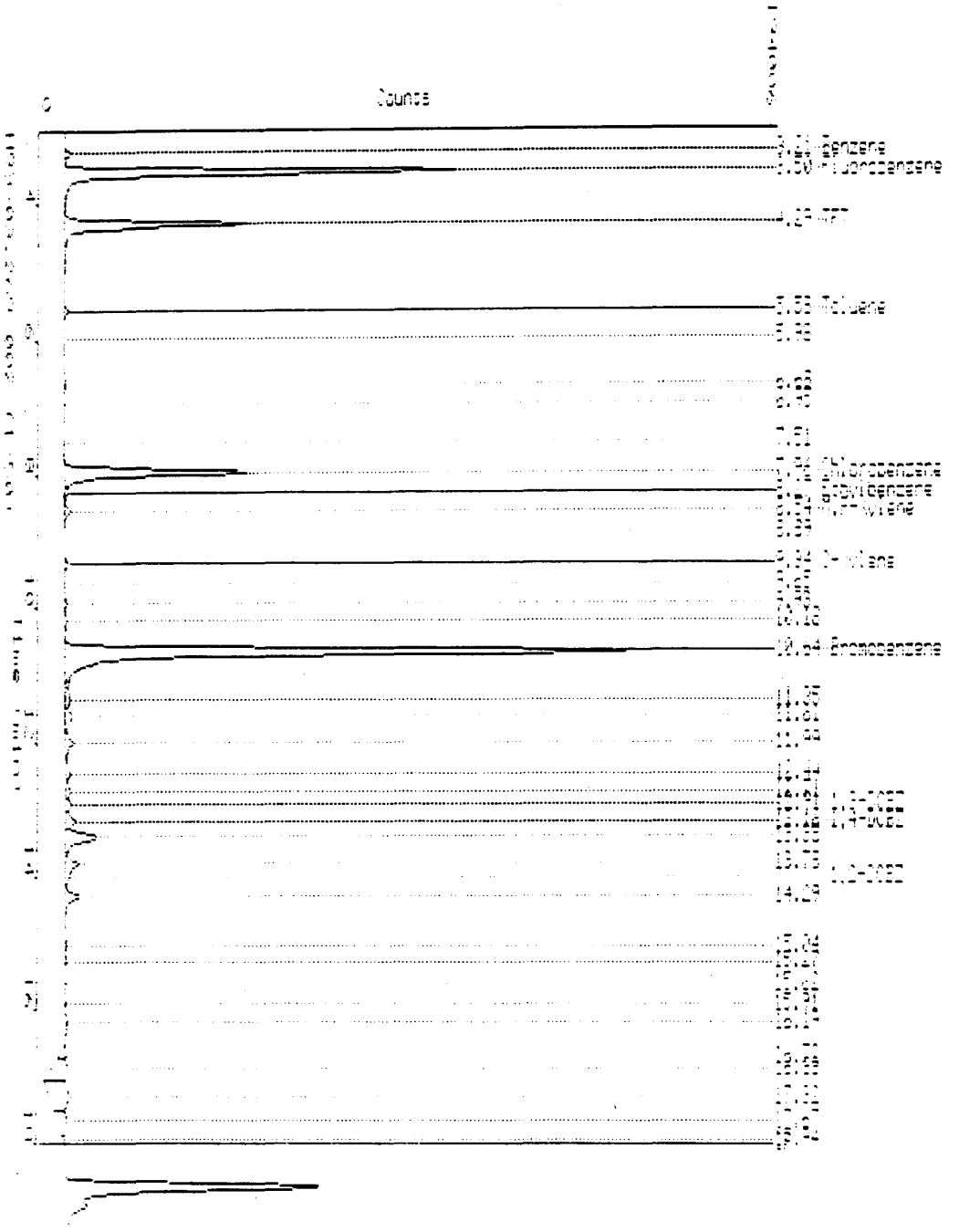
Data file: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: [illegible]

Vert. scale/offset: [illegible]



011844

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011845

Chester LabNet - HOUSTON

Date..... 7-APR-1993 16:01
Raw file..... KAB0406-032
Method file..... KBC0406W-1A
Last method update.. 7-APR-1993 15:25
Device..... Channel 15A
Acq. date..... 7-APR-1993 14:47
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-WR-B

Report #... 250299
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID H93-03.269-002 (1/50)
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.214	0.36	30.274	7333		1	BV	
Fluorobenzene	3.499	0.38		577273		S1	VV	
TFT	4.288	0.57	2753.406	307046	R	1	VE	
Toluene	5.579	0.54	38.577	8599		1	EV	
	6.676			2493			BV	
Chlorobenzene	7.964	0.52	997.743	308394		2	BE	
Ethylbenzene	8.265	1.54	43.770	10068		2	EV	
M,P-Xylene	8.540	0.71	39.870	12463		2	EV	
O-xylene	9.340	-0.41	34.854	9434		2	VE	
	9.933			7242			VV	
	10.184			5649			VV	
Bromobenzene	10.645	0.44		1075162		S2	VE	
	11.351			27169			EV	
	11.608			25394			EV	
	11.992			27032			VV	
	12.443			14580			VV	
	12.706			14032			VV	
1,3-DCBZ	12.905	1.29	44.926	13232		2	VV	
1,4-DCBZ	13.158	0.69	104.179	26848		2	VV	
	13.385			76825			VV	
	13.780			41382			VV	
	14.285			30250			VB	
	15.039			3956			BV	
	15.273			3678			VE	
	15.910			3131			BB	
	16.189			2399			BB	
	16.720			15822			BV	
	16.876			76124			VB	
	17.317			131161			BV	
	17.672			50141			VV	
	17.936			5761			VE	
Total:				2924911				

000011

011845

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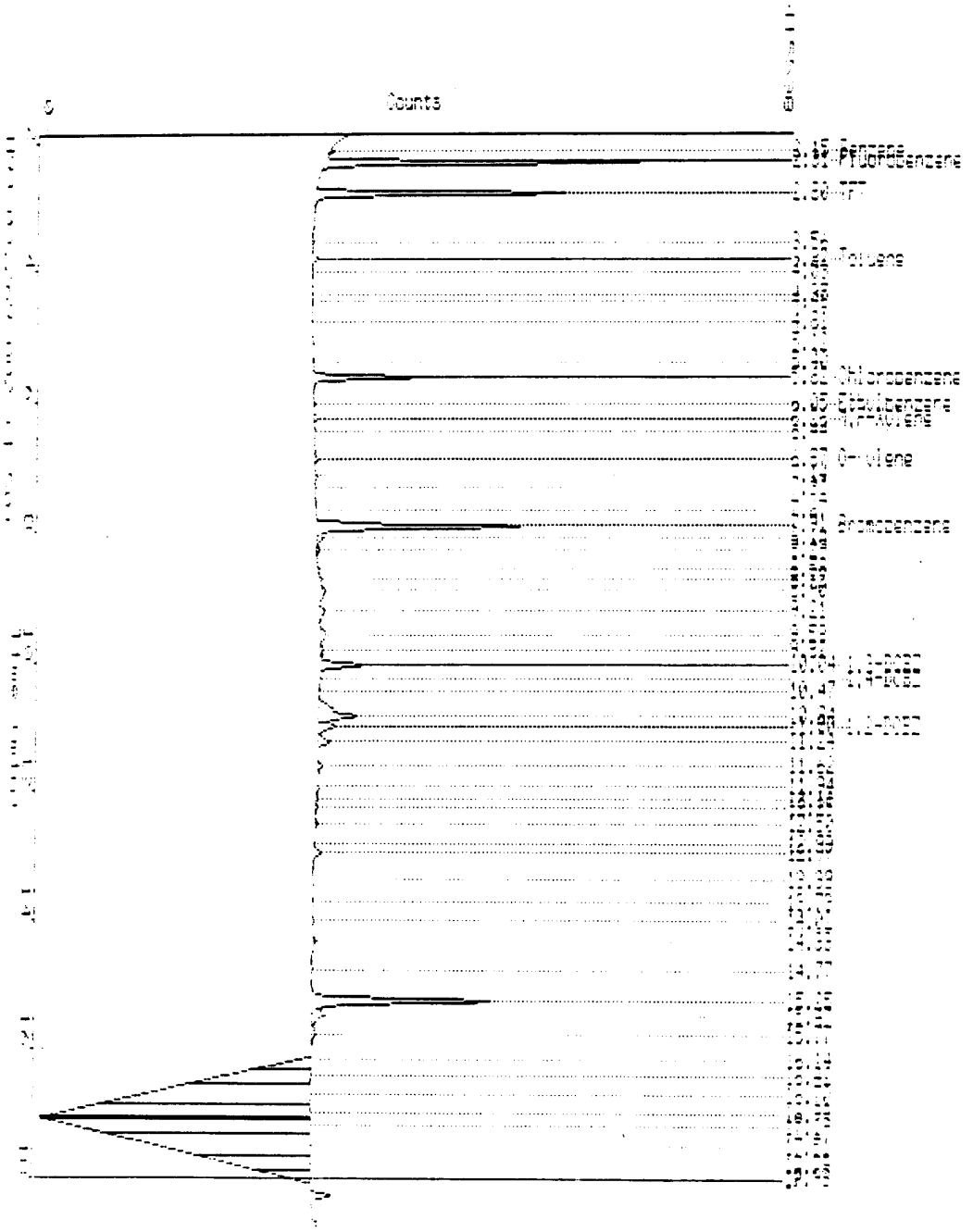
Report: [illegible]

Analyzed: [illegible]

Time range: [illegible]

Vert. scale offset: [illegible]



011846

000012

011847

Chester LabNet - HOUSTON

Date..... 7-APR-1993 15:31
Raw file..... KBB0406-032
Method file..... KBC0406W-1B
Last method update.. 6-APR-1993 16:09
Device..... Channel 14A
Acq. date..... 7-APR-1993 14:47
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-WR-B

Report #... 250290
Column ID.. DB5
Method SW846 8020
Area rej... 4000
Process #.. 1
Lab ID H93-03.269-002 (1/50)
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	2.150	0.85	18.054	4177		1	BB	
Fluorobenzene	2.309	0.22		715443		S1	BB	
TFT	2.803	0.27	2455.257	575275	R	1	BB	
	3.561			4919			BV	
Toluene	3.819	0.50	52.252	14297		1	VB	
	4.371			4548			VV	
	4.478			4372			VB	
Chlorobenzene	5.623	0.59	1018.779	251303		2	BB	
Ethylbenzene	6.046	0.35	16.965	5159		2	BV	
M,P-Xylene	6.256	0.84	37.625	12775		2	VB	
	6.444			5673			BB	
O-xylene	6.874	1.58	40.966	14430		2	BB	
	7.143			9503			BV	
	7.667			5023			BB	
Bromobenzene	7.914	0.51		551421		S2	BE	
	8.105			21419			EV	
	8.290			10741			EB	
	8.719			7437			BB	
	8.898			14291			BB	
	9.213			28811			BB	
	9.585			35623			BV	
	9.817			15846			VV	
1,3-DCBZ	10.042	3.57	504.397	126534		2	VB	
	10.470			4750			BB	
	10.838			194331			BV	
1,2-DCBZ	11.000	-2.93	269.977	62733		2	VV	
	11.243			43643			VB	
	11.618			20389			BB	
	11.944			6020			BV	
	12.115			4145			VV	
	12.505			8425			BB	
	12.970			26179			VB	
	13.726			4903			BB	
	14.018			6999			BB	
	14.329			8832			BB	
	14.771			8641			BB	
	15.253			583549			BE	
	15.470			5248			BV	

000010

011847

15.766	16350	EB
16.143	195592	BV
16.416	712351	VV
16.695	1764652	VV
16.985	1571820	VB
17.194	1993674	BV
17.512	1854819	VV
17.792	587107	VV
17.980	191598	VB
Total:	12387600	

011848

011849

CALIBRATIONS

CHESTER LABNET-HOUSTON

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. -- CONTRACT LAB: CHESTER LABNET

CONTRACT NO. -- INSTRUMENT IDENTIFIER: 4530

CALIBRATION DATE: 04/01/93

STANDARD FILE: ES0405C02

DATE: 04/05/93 TIME: 10:07

MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.500	1.566	4.351
C325	BIS(2-CHLOROETHYL)ETHE	1.615	1.486	-8.003
C330	2-CHLOROPHENOL	1.269	1.337	5.332
C335	1,3-DICHLOROBENZENE	1.413	1.416	0.171
C340	1,4-DICHLOROBENZENE	1.475	1.497	1.464
C345	BENZYL ALCOHOL	0.646	0.912	41.101
C350	1,2-DICHLOROBENZENE	1.391	1.404	0.882
C355	2-METHYLPHENOL	1.118	1.301	16.342
C357	2,2'-OXYBIS(1-CHLOROPR	1.299	1.096	-15.604
C365	4-METHYLPHENOL	1.141	1.038	-9.054
C370	N-NITROSODIPROPYLAMINE	0.694	0.714	2.916
C375	HEXACHLOROETHANE	0.553	0.548	-0.992
C410	NITROBENZENE	0.461	0.497	7.788
C415	ISOPHORONE	0.753	0.760	1.035
C420	2-NITROPHENOL	0.218	0.217	-0.381
C425	2,4-DIMETHYLPHENOL	0.292	0.278	-4.796
C430	BENZOIC ACID	0.145	0.184	26.237
C435	BIS(2-CHLOROETHOXY)MET	0.480	0.432	-9.947
C440	2,4-DICHLOROPHENOL	0.286	0.279	-2.431
C445	1,2,4-TRICHLOROBENZENE	0.316	0.314	-0.598
C450	NAPHTHALENE	1.065	1.046	-1.748
C455	4-CHLOROANILINE	0.281	0.113	-59.613
C460	HEXACHLOROBUTADIENE	0.146	0.151	3.790
C465	P-CHLORO-M-CRESOL	0.245	0.235	-4.121
C470	2-METHYLNAPHTHALENE	0.761	0.824	8.363
C510	HEXACHLOROCYCLOPENTADI	0.326	0.328	0.774
C515	2,4,6-TRICHLOROPHENOL	0.338	0.344	1.541
C520	2,4,5-TRICHLOROPHENOL	0.368	0.409	11.170
C525	2-CHLORONAPHTHALENE	1.124	1.115	-0.740
C530	2-NITROANILINE	0.273	0.256	-6.388
C535	DIMETHYL PHTHALATE	1.267	1.158	-8.600
C540	ACENAPHTHYLENE	1.896	1.731	-8.696
C545	3-NITROANILINE	0.233	0.083	-64.327
C550	ACENAPHTHENE	0.984	0.888	-9.794
C555	2,4-DINITROPHENOL	0.164	0.158	-3.715
C560	4-NITROPHENOL	0.082	0.104	25.625
C565	DIBENZOFURAN	1.445	1.470	1.740
C570	2,4-DINITROTOLUENE	0.344	0.344	0.060
C543	2,6-DINITROTOLUENE	0.295	0.281	-5.034
C580	DIETHYL PHTHALATE	1.139	1.143	0.318
C585	4-CHLOROPHENYL PHENYL	0.582	0.593	1.790
C590	FLUORENE	1.072	1.344	25.406
C595	4-NITROANILINE	0.180	0.152	-15.668
C610	4,6-DINITRO-2-METHYLPH	0.162	0.149	-7.913
C615	N-NITROSODIPHENYLAMINE	0.535	0.504	-5.861
C625	4-BROMOPHENYL PHENYL E	0.215	0.192	-10.409
C630	HEXACHLOROBENZENE	0.211	0.208	-1.733
C635	PENTACHLOROPHENOL	0.110	0.108	-1.165
C640	PHENANTHRENE	1.351	1.122	-16.936
C645	ANTHRACENE	1.014	1.066	5.125
C650	DI-N-BUTYL PHTHALATE	1.561	1.333	-14.625
C655	FLUORANTHENE	1.379	1.197	-13.224

C715	PYRENE	1.564	1.510	-3.404
C720	BUTYL BENZYL PHTHALATE	0.754	0.665	-11.823
C725	3,3'-DICHLOROBENZIDINE	0.331	0.101	-69.527
C730	BENZO(A)ANTHRACENE	1.544	1.343	-13.010
C745	BIS(2-ETHYLHEXYL)PHTHA	1.033	0.889	-13.960
C740	CHRYSENE	1.069	1.010	-5.483
C760	DI-N-OCTYL PHTHALATE	1.954	1.829	-6.393
C765	BENZO(B)FLUORANTHENE	1.550	1.717	10.818
C770	BENZO(K)FLUORANTHENE	1.301	1.246	-4.273
C775	BENZO(A)PYRENE	1.215	1.211	-0.272
C780	INDENO(1,2,3-CD)PYRENE	1.256	1.347	7.270
C785	DIBENZO(A,H)ANTHRACENE	1.012	1.091	7.786
C790	BENZO(GHI)PERYLENE	1.074	1.177	9.588
C310	N-NITROSODIMETHYLAMINE	0.901	0.705	-21.757
C620	1,2-DIPHENYL-HYDRAZINE	0.908	0.875	-3.641
C320	ANILINE	1.299	1.078	-17.013
CS50	2-FLUOROPHENOL ** SU1	1.320	1.496	13.332
CS45	PHENOL-D5 ** SU2 **	1.654	1.776	7.380
CS55	2,4,6-TRIBROMOPHENOL	0.110	0.131	19.411
CS20	NITROBENZENE-D5 ** SU3	0.356	0.399	11.849
CS25	2-FLUOROBIPHENYL **SU4	1.347	1.329	-1.323
CS30	TERPHENYL-D14 ** SU6	1.230	1.358	10.421
CS70	2-CHLOROPHENOL-D4 ** S	1.753	1.864	6.314
CS75	1,2-DICHLOROBENZENE-D4	0.925	0.930	0.487
C647	CARBAZOLE	0.909	0.906	-0.345
CC65	3+4-METHYLPHENOL			
A950	PYRIDINE	1.388	1.317	-5.106

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CHESTER LABNET DC # ---17

011852

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0405C02A

CLIENT CHESTER ANALYST SC

DATE INJECTED 04/05/93 10:07:00 VERFIED BY

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	420	40	18379	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	598	40	54261	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	848	40	27724	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1054	40	45665	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1433	40	36853	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1625	40	31455	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	271	50	34373	0.645	1.496
CS45	PHENOL-D5 ** SU2 **		99	409	50	40795	0.974	1.776
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	963	50	4546	1.136	0.131
CS20	NITROBENZENE-D5 ** SU3 **		82	504	50	27037	0.843	0.399
CS25	2-FLUOROBIPHENYL **SU4 **		172	758	50	46063	0.894	1.329
CS30	TERPHENYL-D14 ** SU6 **		244	1288	50	62545	0.899	1.358
C315	PHENOL	10A	94	410	50	35972	0.976	1.566
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	397	50	34129	0.945	1.486
C330	2-CHLOROPHENOL	1A	128	404	50	30712	0.962	1.337
C335	1,3-DICHLOROBENZENE	21B	146	414	50	32527	0.986	1.416
C340	1,4-DICHLOROBENZENE	22B	146	422	50	34382	1.005	1.497
C345	BENZYL ALCOHOL		108	456	50	20946	1.086	0.912
C350	1,2-DICHLOROBENZENE	20B	146	447	50	32249	1.064	1.404
C355	2-METHYLPHENOL		108	487	50	29881	1.160	1.301
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	473	50	25183	1.126	1.096
C365	4-METHYLPHENOL		108	509	50	23840	1.212	1.038
C370	N-NITROSODIPROPYLAMINE	42B	70	494	50	16412	1.176	0.714
C375	HEXACHLOROETHANE	36B	117	488	50	12583	1.162	0.548
C410	NITROBENZENE	40B	77	506	50	33699	0.846	0.497
C415	ISOPHORONE	38B	82	543	50	51576	0.908	0.760
C420	2-NITROPHENOL	6A	139	551	50	14716	0.921	0.217
C425	2,4-DIMETHYLPHENOL	3A	107	577	50	18858	0.965	0.278
C430	BENZOIC ACID		122	614	50	12455	1.027	0.184
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	580	50	29320	0.970	0.432
C440	2,4-DICHLOROPHENOL	2A	162	596	50	18897	0.997	0.279
C445	1,2,4-TRICHLOROBENZENE	46B	180	594	50	21300	0.993	0.314
C450	NAPHTHALENE	39B	128	601	50	70943	1.005	1.046
C455	4-CHLOROANILINE		127	622	50	7668	1.040	0.113
C460	HEXACHLOROBUTADIENE	34B	225	629	50	10267	1.052	0.151
C465	P-CHLORO-M-CRESOL	8A	107	709	50	15961	1.186	0.235
C470	2-METHYLNAPHTHALENE		142	700	50	55921	1.171	0.824
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	732	50	11381	0.863	0.328
C515	2,4,6-TRICHLOROPHENOL	11A	196	753	50	11907	0.888	0.344
C520	2,4,5-TRICHLOROPHENOL		196	765	50	14191	0.902	0.409
C525	2-CHLORONAPHTHALENE	16B	162	767	50	38656	0.904	1.115
C530	2-NITROANILINE		65	796	50	8855	0.939	0.256
C535	DIMETHYL PHTHALATE	25B	163	827	50	40127	0.975	1.158
C540	ACENAPHTHYLENE	2B	152	825	50	59984	0.973	1.731
C545	3-NITROANILINE		138	857	50	2864	1.011	0.083
C550	ACENAPHTHENE	1B	153	852	50	30769	1.005	0.888

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SV STANDARD REPORT PAGE 2

DATAFILE ES0405C02A

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	871	50	5472	1.027	0.158
C560	4-NITROPHENOL	7A	109	910	50	3593	1.073	0.104
C565	DIBENZOFURAN		168	875	50	50953	1.032	1.470
C570	2,4-DINITROTOLUENE	27B	165	892	50	11934	1.052	0.344
C543	2,6-DINITROTOLUENE	28B	165	836	50	9724	0.986	0.281
C580	DIETHYL PHTHALATE	24B	149	928	50	39609	1.094	1.143
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	928	50	20546	1.094	0.593
C590	FLUORENE	32B	166	924	50	46587	1.090	1.344
C595	4-NITROANILINE		138	944	50	5268	1.113	0.152
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	949	50	8532	0.900	0.149
C615	N-NITROSODIPHENYLAMINE	43B	169	950	50	28763	0.901	0.504
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	996	50	10984	0.945	0.192
C630	HEXACHLOROBENZENE	33B	284	1012	50	11853	0.960	0.208
C635	PENTACHLOROPHENOL	9A	266	1046	50	6181	0.992	0.108
C640	PHENANTHRENE	44B	178	1058	50	64066	1.004	1.122
C645	ANTHRACENE	3B	178	1064	50	60857	1.009	1.066
C650	DI-N-BUTYL PHTHALATE	26B	149	1159	50	76069	1.100	1.333
C655	FLUORANTHENE	31B	202	1226	50	68299	1.163	1.197
C715	PYRENE	45B	202	1257	50	69583	0.877	1.510
C720	BUTYL BENZYL PHTHALATE	15B	149	1370	50	30635	0.956	0.665
C725	3,3'-DICHLOROBENZIDINE	23B	252	1436	50	4637	1.002	0.101
C730	BENZO(A)ANTHRACENE	5B	228	1431	50	61884	0.999	1.343
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1459	50	40944	1.018	0.889
C740	CHRYSENE	18B	228	1437	50	46528	1.003	1.010
C760	DI-N-OCTYL PHTHALATE	29B	149	1544	50	71908	0.950	1.829
C765	BENZO(B)FLUORANTHENE	7B	252	1578	50	67518	0.971	1.717
C770	BENZO(K)FLUORANTHENE	9B	252	1581	50	48983	0.973	1.246
C775	BENZO(A)PYRENE	6B	252	1617	50	47624	0.995	1.211
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1767	50	52961	1.087	1.347
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1771	50	42880	1.090	1.091
C790	BENZO(GHI)PERYLENE	8B	276	1807	50	46296	1.112	1.177
C310	N-NITROSODIMETHYLAMINE	41B	74	121	50	16199	0.288	0.705
C710	BENZIDINE	4B						
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	402	50	42821	0.957	1.864
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	445	50	21363	1.060	0.930
C647	CARBAZOLE		167	1096	50	51729	1.040	0.906
C320	ANILINE		93	390	50	24756	0.929	1.078
C620	1,2-DIPHENYL-HYDRAZINE	30B	77	950	50	49963	0.901	0.875

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04/05/93 10:07:00
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CONDS.: ---
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CALI: ES0405C02A #3

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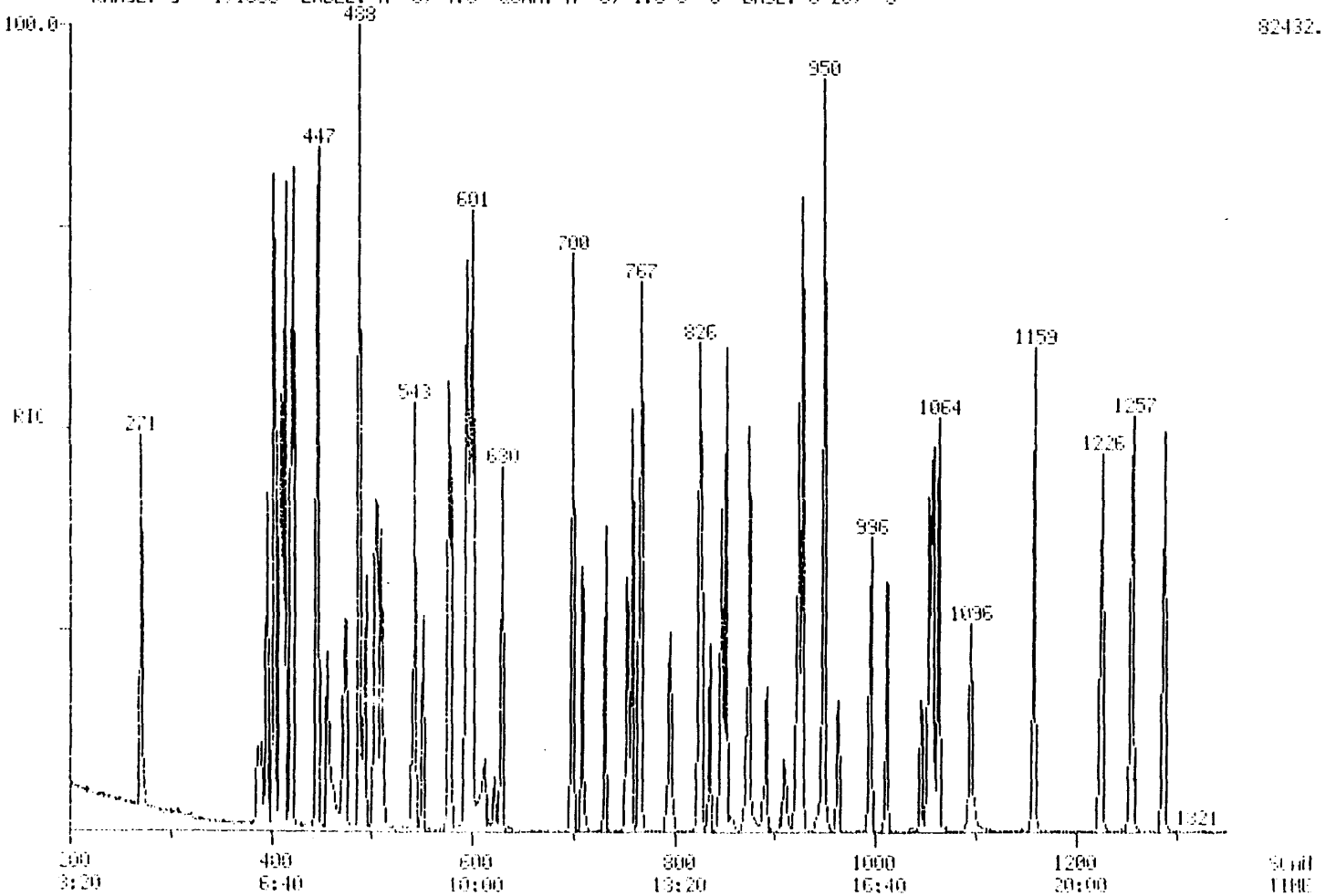

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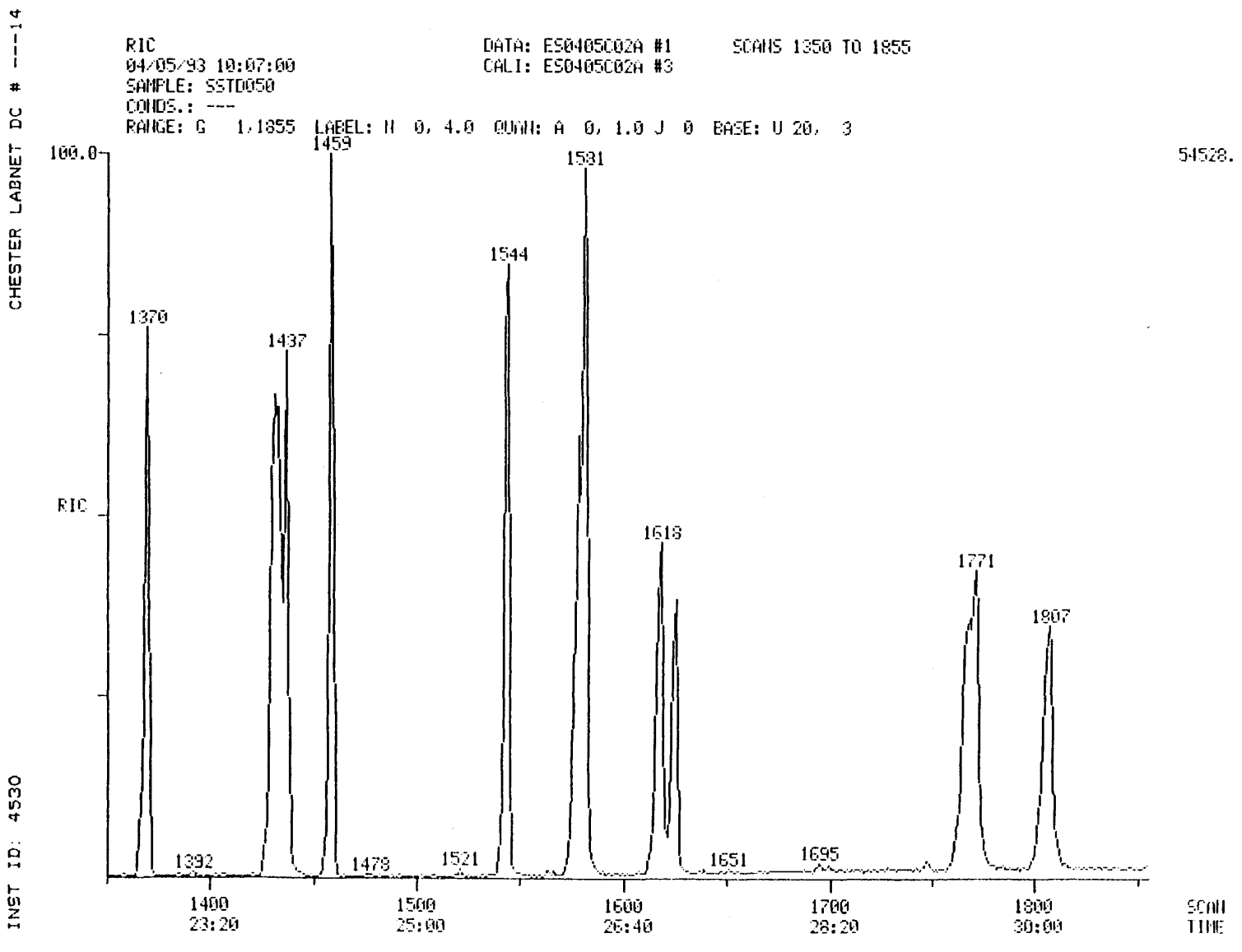
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CALI: ES0405C02A #3
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1370
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SCAN
TIME

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Quantitation Report File: ES0405C02A

Data: ES0405C02A.TI
04/05/93 10:07:00
Sample: SSTD050
Conds.: ---
Formula: 04/01/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

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No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	420	7:00	1	1.000	A BB	18379.	40.000 UG/L	0.97
2	136	598	9:58	2	1.000	A BB	54261.	40.000 UG/L	0.97
3	164	848	14:08	3	1.000	A BB	27724.	40.000 UG/L	0.97
4	188	1054	17:34	4	1.000	A BV	45665.	40.000 UG/L	0.97
5	240	1433	23:53	5	1.000	A BB	36853.	40.000 UG/L	0.97
6	264	1625	27:05	6	1.000	A BB	31455.	40.000 UG/L	0.97
7	112	271	4:31	1	0.645	A BB	34373.	50.000 UG/L	1.21
8	99	409	6:49	1	0.974	A VV	40795.	50.000 UG/L	1.21
9	330	963	16:03	3	1.136	A BB	4546.	50.000 UG/L	1.21
10	82	504	8:24	2	0.843	A BB	27037.	50.000 UG/L	1.21
11	172	758	12:38	3	0.894	A BB	46063.	50.000 UG/L	1.21
12	244	1288	21:28	5	0.899	A BB	62545.	50.000 UG/L	1.21
13	94	410	6:50	1	0.976	A BB	35972.	50.000 UG/L	1.21
14	93	397	6:37	1	0.945	A VV	34129.	50.000 UG/L	1.21
15	128	404	6:44	1	0.962	A BB	30712.	50.000 UG/L	1.21
16	146	414	6:54	1	0.986	A BB	32527.	50.000 UG/L	1.21
17	146	422	7:02	1	1.005	A BB	34382.	50.000 UG/L	1.21
18	108	456	7:36	1	1.086	A BB	20946.	50.000 UG/L	1.21
19	146	447	7:27	1	1.064	A BB	32249.	50.000 UG/L	1.21
20	108	487	8:07	1	1.160	A BB	29881.	50.000 UG/L	1.21
21	45	473	7:53	1	1.126	A BB	25183.	50.000 UG/L	1.21
22	108	509	8:29	1	1.212	A BB	23840.	50.000 UG/L	1.21
23	70	494	8:14	1	1.176	A BB	16412.	50.000 UG/L	1.21
24	117	488	8:08	1	1.162	A BB	12583.	50.000 UG/L	1.21
25	77	506	8:26	2	0.846	A BB	33699.	50.000 UG/L	1.21
26	82	543	9:03	2	0.908	A BB	51576.	50.000 UG/L	1.21
27	139	551	9:11	2	0.921	A BB	14716.	50.000 UG/L	1.21
28	107	577	9:37	2	0.965	A BB	18858.	50.000 UG/L	1.21
29	122	614	10:14	2	1.027	A BB	12455.	50.000 UG/L	1.21
30	93	580	9:40	2	0.970	A BB	29320.	50.000 UG/L	1.21
31	162	596	9:56	2	0.997	A BB	18897.	50.000 UG/L	1.21
32	180	594	9:54	2	0.993	A BB	21300.	50.000 UG/L	1.21
33	128	601	10:01	2	1.005	A BB	70943.	50.000 UG/L	1.21
34	127	622	10:22	2	1.040	A BV	7668.	50.000 UG/L	1.21
35	225	629	10:29	2	1.052	A BB	10267.	50.000 UG/L	1.21
36	107	709	11:49	2	1.186	A BB	15961.	50.000 UG/L	1.21
37	142	700	11:40	2	1.171	A BB	55921.	50.000 UG/L	1.21
38	237	732	12:12	3	0.863	A BB	11381.	50.000 UG/L	1.21
39	196	753	12:33	3	0.888	A BB	11907.	50.000 UG/L	1.21
40	196	765	12:45	3	0.902	A BB	14191.	50.000 UG/L	1.21
41	162	767	12:47	3	0.904	A BB	38656.	50.000 UG/L	1.21
42	65	796	13:16	3	0.939	A BB	8855.	50.000 UG/L	1.21
43	163	827	13:47	3	0.975	A BB	40127.	50.000 UG/L	1.21
44	152	825	13:45	3	0.973	A BB	59984.	50.000 UG/L	1.21
45	138	857	14:17	3	1.011	A BB	2864.	50.000 UG/L	1.21
46	153	852	14:12	3	1.005	A BB	30769.	50.000 UG/L	1.21
47	184	871	14:31	3	1.027	A BB	5472.	50.000 UG/L	1.21
48	109	910	15:10	3	1.073	A BB	3593.	50.000 UG/L	1.21
49	168	875	14:35	3	1.032	A BB	50953.	50.000 UG/L	1.21
50	165	892	14:52	3	1.052	A BB	11934.	50.000 UG/L	1.21

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No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	9:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	17:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	23:53	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:31	1.00	0.645	1.00	50.00	50.00	1.496	1.496	1.00
8	6:49	1.00	0.974	1.00	50.00	50.00	1.776	1.776	1.00
9	16:03	1.00	1.136	1.00	50.00	50.00	0.131	0.131	1.00
10	8:24	1.00	0.843	1.00	50.00	50.00	0.399	0.399	1.00
11	12:38	1.00	0.894	1.00	50.00	50.00	1.329	1.329	1.00
12	21:28	1.00	0.899	1.00	50.00	50.00	1.358	1.358	1.00
13	6:50	1.00	0.976	1.00	50.00	50.00	1.566	1.566	1.00
14	6:37	1.00	0.945	1.00	50.00	50.00	1.486	1.486	1.00
15	6:44	1.00	0.962	1.00	50.00	50.00	1.337	1.337	1.00
16	6:54	1.00	0.986	1.00	50.00	50.00	1.416	1.416	1.00
17	7:02	1.00	1.005	1.00	50.00	50.00	1.497	1.497	1.00
18	7:36	1.00	1.086	1.00	50.00	50.00	0.912	0.912	1.00
19	7:27	1.00	1.064	1.00	50.00	50.00	1.404	1.404	1.00
20	8:07	1.00	1.160	1.00	50.00	50.00	1.301	1.301	1.00
21	7:53	1.00	1.126	1.00	50.00	50.00	1.096	1.096	1.00
22	8:29	1.00	1.212	1.00	50.00	50.00	1.038	1.038	1.00
23	8:14	1.00	1.176	1.00	50.00	50.00	0.714	0.714	1.00
24	8:08	1.00	1.162	1.00	50.00	50.00	0.548	0.548	1.00
25	8:26	1.00	0.846	1.00	50.00	50.00	0.497	0.497	1.00
26	9:03	1.00	0.908	1.00	50.00	50.00	0.760	0.760	1.00
27	9:11	1.00	0.921	1.00	50.00	50.00	0.217	0.217	1.00
28	9:37	1.00	0.965	1.00	50.00	50.00	0.278	0.278	1.00
29	10:14	1.00	1.027	1.00	50.00	50.00	0.184	0.184	1.00
30	9:40	1.00	0.970	1.00	50.00	50.00	0.432	0.432	1.00
31	9:56	1.00	0.997	1.00	50.00	50.00	0.279	0.279	1.00
32	9:54	1.00	0.993	1.00	50.00	50.00	0.314	0.314	1.00
33	10:01	1.00	1.005	1.00	50.00	50.00	1.046	1.046	1.00
34	10:22	1.00	1.040	1.00	50.00	50.00	0.113	0.113	1.00
35	10:29	1.00	1.052	1.00	50.00	50.00	0.151	0.151	1.00
36	11:49	1.00	1.186	1.00	50.00	50.00	0.235	0.235	1.00
37	11:40	1.00	1.171	1.00	50.00	50.00	0.824	0.824	1.00
38	12:12	1.00	0.863	1.00	50.00	50.00	0.328	0.328	1.00
39	12:33	1.00	0.888	1.00	50.00	50.00	0.344	0.344	1.00
40	12:45	1.00	0.902	1.00	50.00	50.00	0.409	0.409	1.00
41	12:47	1.00	0.904	1.00	50.00	50.00	1.115	1.115	1.00
42	13:16	1.00	0.939	1.00	50.00	50.00	0.256	0.256	1.00
43	13:47	1.00	0.975	1.00	50.00	50.00	1.158	1.158	1.00
44	13:45	1.00	0.973	1.00	50.00	50.00	1.731	1.731	1.00
45	14:17	1.00	1.011	1.00	50.00	50.00	0.083	0.083	1.00
46	14:12	1.00	1.005	1.00	50.00	50.00	0.888	0.888	1.00
47	14:31	1.00	1.027	1.00	50.00	50.00	0.158	0.158	1.00
48	15:10	1.00	1.073	1.00	50.00	50.00	0.104	0.104	1.00
49	14:35	1.00	1.032	1.00	50.00	50.00	1.470	1.470	1.00
50	14:52	1.00	1.052	1.00	50.00	50.00	0.344	0.344	1.00

Quantitation Report File: ES0405C02A

Data: ES0405C02A.TI
04/05/93 10:07:00
Sample: SSTD050
Conds.: ---
Formula: 04/01/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
80	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
81	C647	CARBAZOLE	
82	C320	ANILINE	
83	A950	PYRIDINE	
84	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	836	13:56	3	0.986	A BB	9724.	50.000 UG/L	1.21
52	149	928	15:28	3	1.094	A BB	39609.	50.000 UG/L	1.21
53	204	928	15:28	3	1.094	A BB	20546.	50.000 UG/L	1.21
54	166	924	15:24	3	1.090	A BB	46587.	50.000 UG/L	1.21
55	138	944	15:44	3	1.113	A BB	5268.	50.000 UG/L	1.21
56	198	949	15:49	4	0.900	A BB	8532.	50.000 UG/L	1.21
57	169	950	15:50	4	0.901	A BB	28763.	50.000 UG/L	1.21
58	248	996	16:36	4	0.945	A BB	10984.	50.000 UG/L	1.21
59	284	1012	16:52	4	0.960	A BB	11853.	50.000 UG/L	1.21

011859

011860

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
60	266	1046	17:26	4	0.992	A BB	6181.	50.000	UG/L	1.21
61	178	1058	17:38	4	1.004	A BV	64066.	50.000	UG/L	1.21
62	178	1064	17:44	4	1.009	A VB	60857.	50.000	UG/L	1.21
63	149	1159	19:19	4	1.100	A BB	76069.	50.000	UG/L	1.21
64	202	1226	20:26	4	1.163	A BB	68299.	50.000	UG/L	1.21
65	202	1257	20:57	5	0.877	A BB	69583.	50.000	UG/L	1.21
66	149	1370	22:50	5	0.956	A BB	30635.	50.000	UG/L	1.21
67	252	1436	23:56	5	1.002	A BB	4637.	50.000	UG/L	1.21
68	228	1431	23:51	5	0.999	A BV	61884.	50.000	UG/L	1.21
69	149	1459	24:19	5	1.018	A BB	40944.	50.000	UG/L	1.21
70	228	1437	23:57	5	1.003	A VB	46528.	50.000	UG/L	1.21
71	149	1544	25:44	6	0.950	A BB	71908.	50.000	UG/L	1.21
72	252	1578	26:18	6	0.971	M XX	67518.	50.000	UG/L	1.21
73	252	1581	26:21	6	0.973	M XX	48983.	50.000	UG/L	1.21
74	252	1617	26:57	6	0.995	A BB	47624.	50.000	UG/L	1.21
75	276	1767	29:27	6	1.087	A BB	52961.	50.000	UG/L	1.21
76	278	1771	29:31	6	1.090	A BB	42880.	50.000	UG/L	1.21
77	276	1807	30:07	6	1.112	A BB	46296.	50.000	UG/L	1.21
78	74	121	2:01	1	0.288	A BB	16199.	50.000	UG/L	1.21
79	132	402	6:42	1	0.957	A BB	42821.	50.000	UG/L	1.21
80	152	445	7:25	1	1.060	A BB	21363.	50.000	UG/L	1.21
81	167	1096	18:16	4	1.040	A BB	51729.	50.000	UG/L	1.21
82	93	390	6:30	1	0.929	M XX	24756.	50.000	UG/L	1.21
83	79	121	2:01	1	0.288	M XX	30252.	50.000	UG/L	1.21
84	77	950	15:50	4	0.901	M XX	49963.	50.000	UG/L	1.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	13:56	1.00	0.986	1.00	50.00	50.00	0.281	0.281	1.00
52	15:28	1.00	1.094	1.00	50.00	50.00	1.143	1.143	1.00
53	15:28	1.00	1.094	1.00	50.00	50.00	0.593	0.593	1.00
54	15:24	1.00	1.090	1.00	50.00	50.00	1.344	1.344	1.00
55	15:44	1.00	1.113	1.00	50.00	50.00	0.152	0.152	1.00
56	15:49	1.00	0.900	1.00	50.00	50.00	0.149	0.149	1.00
57	15:50	1.00	0.901	1.00	50.00	50.00	0.504	0.504	1.00
58	16:36	1.00	0.945	1.00	50.00	50.00	0.192	0.192	1.00
59	16:52	1.00	0.960	1.00	50.00	50.00	0.208	0.208	1.00
60	17:26	1.00	0.992	1.00	50.00	50.00	0.108	0.108	1.00
61	17:38	1.00	1.004	1.00	50.00	50.00	1.122	1.122	1.00
62	17:44	1.00	1.009	1.00	50.00	50.00	1.066	1.066	1.00
63	19:19	1.00	1.100	1.00	50.00	50.00	1.333	1.333	1.00
64	20:26	1.00	1.163	1.00	50.00	50.00	1.197	1.197	1.00
65	20:57	1.00	0.877	1.00	50.00	50.00	1.510	1.510	1.00
66	22:50	1.00	0.956	1.00	50.00	50.00	0.665	0.665	1.00
67	23:56	1.00	1.002	1.00	50.00	50.00	0.101	0.101	1.00
68	23:51	1.00	0.999	1.00	50.00	50.00	1.343	1.343	1.00
69	24:19	1.00	1.018	1.00	50.00	50.00	0.889	0.889	1.00
70	23:57	1.00	1.003	1.00	50.00	50.00	1.010	1.010	1.00
71	25:44	1.00	0.950	1.00	50.00	50.00	1.829	1.829	1.00
72	26:18	1.00	0.971	1.00	50.00	50.00	1.717	1.717	1.00
73	26:21	1.00	0.973	1.00	50.00	50.00	1.246	1.246	1.00
74	26:57	1.00	0.995	1.00	50.00	50.00	1.211	1.211	1.00
75	29:27	1.00	1.087	1.00	50.00	50.00	1.347	1.347	1.00
76	29:31	1.00	1.090	1.00	50.00	50.00	1.091	1.091	1.00
77	30:07	1.00	1.112	1.00	50.00	50.00	1.177	1.177	1.00
78	2:01	1.00	0.288	1.00	50.00	50.00	0.705	0.705	1.00
79	6:42	1.00	0.957	1.00	50.00	50.00	1.864	1.864	1.00

011861

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
80	7:25	1.00	1.060	1.00	50.00	50.00	0.930	0.930	1.00
81	18:16	1.00	1.040	1.00	50.00	50.00	0.906	0.906	1.00
82	6:30	1.00	0.929	1.00	50.00	50.00	1.078	1.078	1.00
83	2:01	1.00	0.288	1.00	50.00	50.00	1.317	1.317	1.00
84	15:50	1.00	0.901	1.00	50.00	50.00	0.875	0.875	1.00

000027

011862

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 06-APR-1993
SL Method File Name. kbp0318-1a.met
CC Method File Name. kbc0406w-1a.met
Instrument..... Hewlett-Packard 5890
Operator..... BEDO CASTRO

Compound	MEAN RCF(i)	RSD RCF(0)	% D
T.B.M.E.	0.32385	0.37437	+15.599
Benzene	1.03506	1.04898	+1.345
Fluorobenzene	14248.600	9907.640	-30.466
TFT	0.51982	0.48294	-7.095
Toluene	1.07745	0.96535	-10.405
Chlorobenzene	0.79249	0.71871	-9.310
Ethylbenzene	0.61589	0.53485	-13.158
M,P-Xylene	0.79692	0.72684	-8.794
O-xylene	0.69472	0.62937	-9.407
Bromobenzene	25774.469	17449.820	-32.298
1,3-DCBZ	0.65650	0.68485	+4.319
1,4-DCBZ	0.64067	0.59924	-6.467
1,2-DCBZ	0.62775	0.66736	+6.309

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

000028

011862

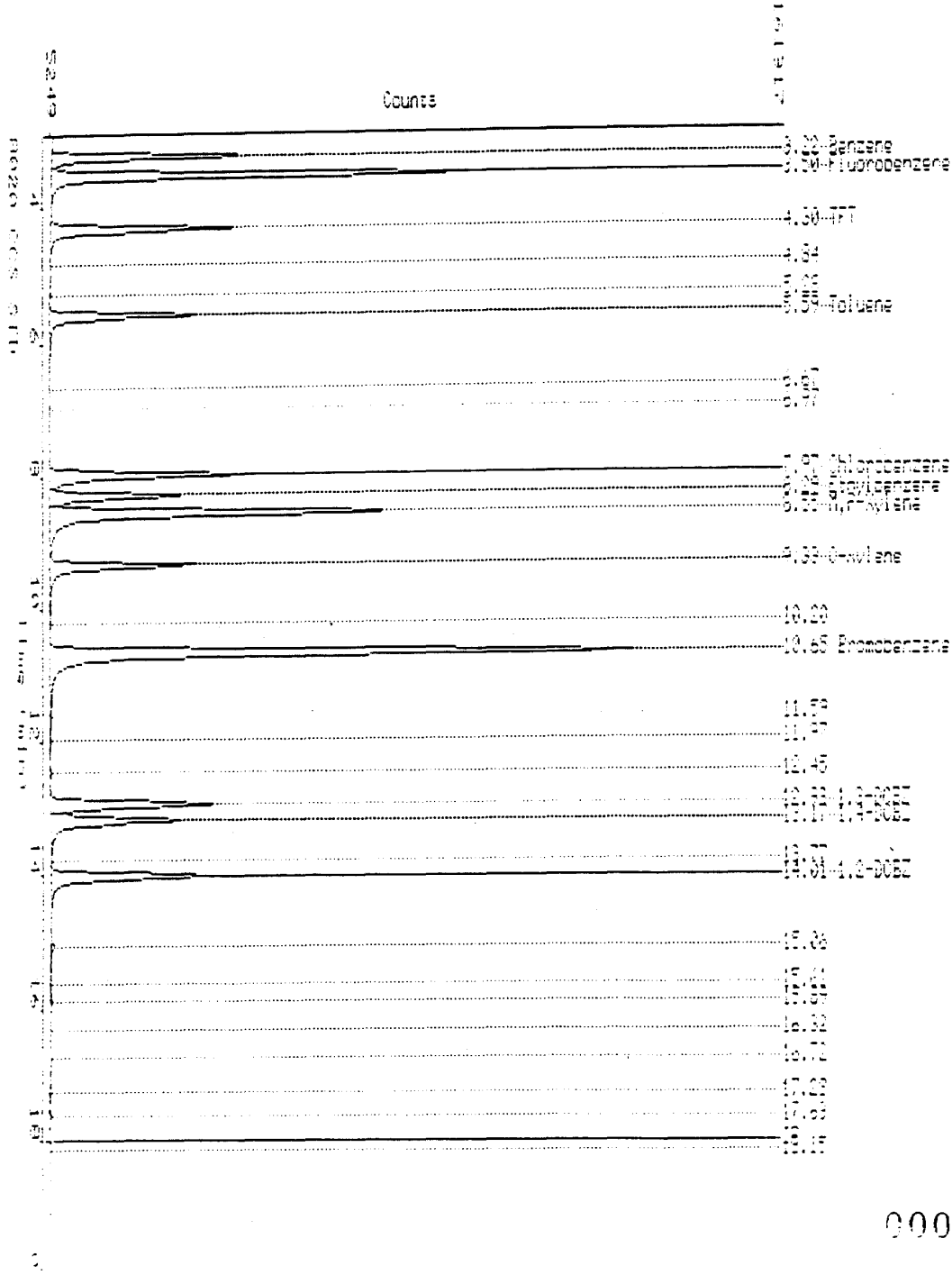
Data file: [illegible]

Record: [illegible]

Acquired: 7-APR-1993 06:55:35

Time range: 2.70-20.00

Vert. scale/offset: 0.3/0



011863

000029

011864

Chester LabNet - HOUSTON

Date..... 7-APR-1993 13:56
Raw file..... KAB0406-028
Method file..... KBC0406W-1A
Last method update.. 7-APR-1993 13:56
Device..... Channel 15A
Acq. date..... 7-APR-1993 06:55
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... 8020 CCS STD 20UG/L

Report #... 250263
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID .... 8020 CCS STD
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 CCS STD

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.220	1.05E+00	20.000	207858		1		
Fluorobenzene	3.505	1.00E+00	50.000	495382		S1		
TFT	4.297	4.83E-01	50.000	239239	R	1		
Toluene	5.588	9.65E-01	20.000	191286		1		
Chlorobenzene	7.973	7.19E-01	20.000	250827		2		
Ethylbenzene	8.291	5.35E-01	20.000	186661		2		
M,P-Xylene	8.552	7.27E-01	40.000	507330		2		
O-xylene	9.333	6.29E-01	20.000	219649		2		
Bromobenzene	10.652	1.00E+00	50.000	872491		S2		
1,3-DCBZ	12.927	6.85E-01	20.000	239010		2		
1,4-DCBZ	13.169	5.99E-01	20.000	209132		2		
1,2-DCBZ	14.005	6.67E-01	20.000	232905		2		

011864

011865

THE FOLLOWING DATA IS FOR QA/QC

000031

011866

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/05/93	Sens Time:	9:06:00
Lab ID:	ES0405C01A	Cali Date:	04/01/93	Analyst:	SC

Data release authorized by: Sheila Cheng

M/E	Ion Abundance Criteria	Spec # 354	
51	30 to 60% of mass 198	41.47	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	37.96	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	41.61	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	7.21	
275	10 TO 30% of mass 198	25.47	
365	greater than 1% of mass 198	5.55	
441	less than mass 443	6.66	
442	greater than 40% of mass 198	50.81	
443	17 TO 23% of mass 442	8.86	(17.45) 2

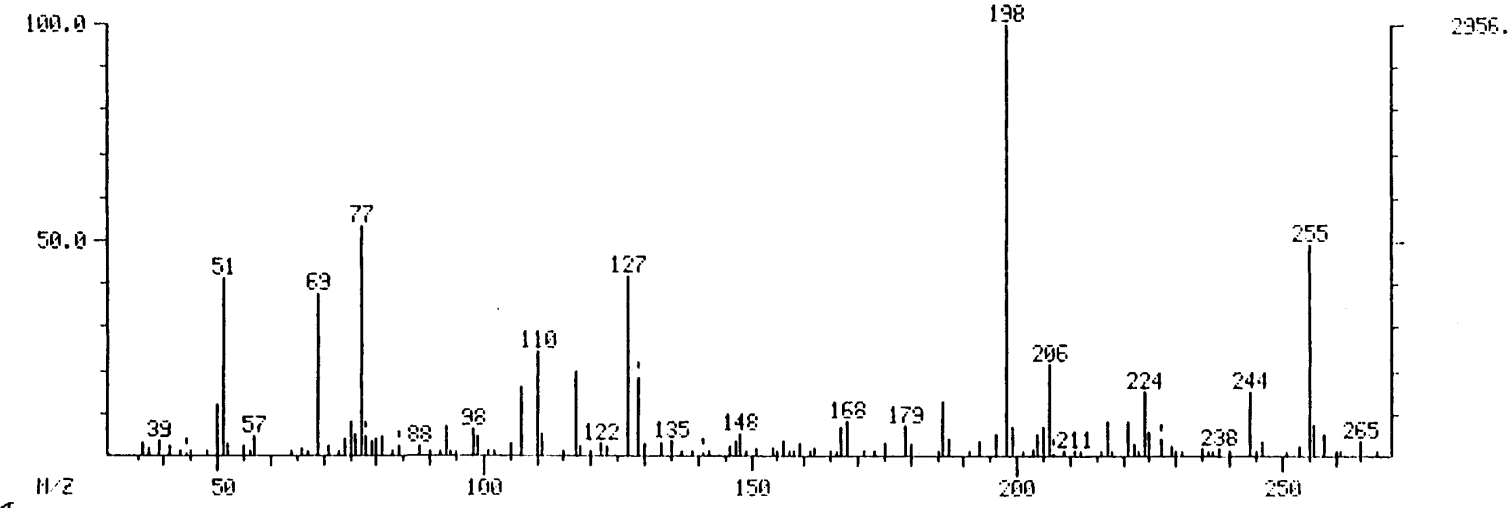
1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

CHESTER LABNET DC # ---15

MASS SPECTRUM
04/05/93 9:06:00 + 5:55
SAMPLE: DFTPP
CONDS.: ---
#354 TO #356 SUMMED - #343

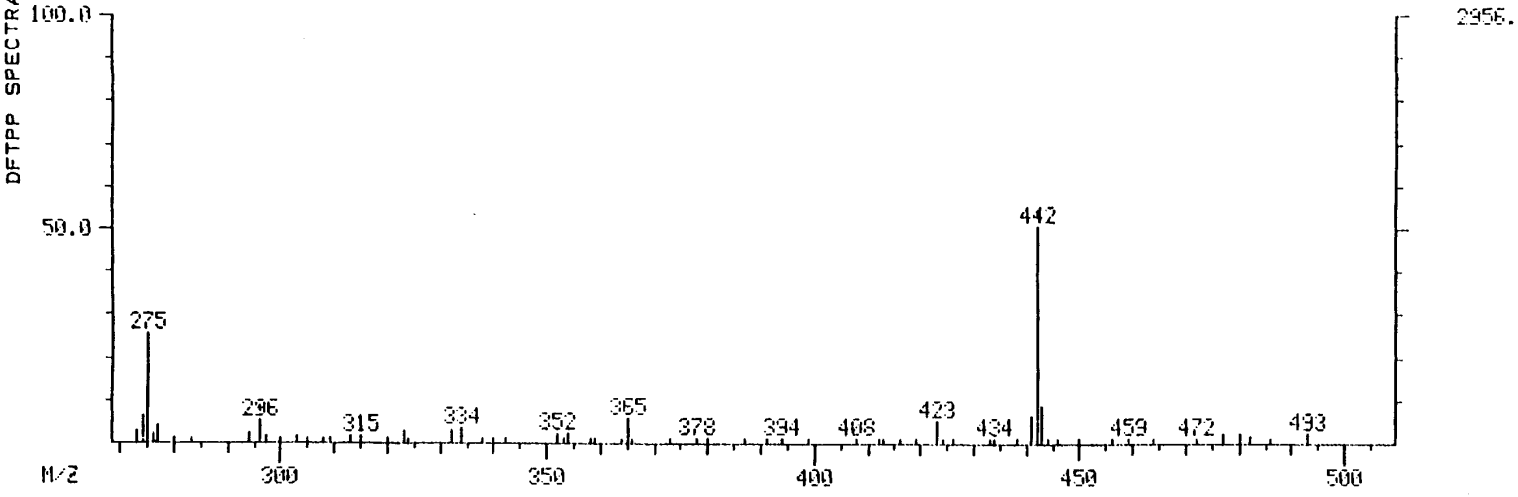
DATA: ES0405C01A #355
CALI: ES0405C01A #3

BASE M/Z: 198
RIC: 29024.



DFTPP SPECTRA

INST ID: 4530



011867

011867

011868

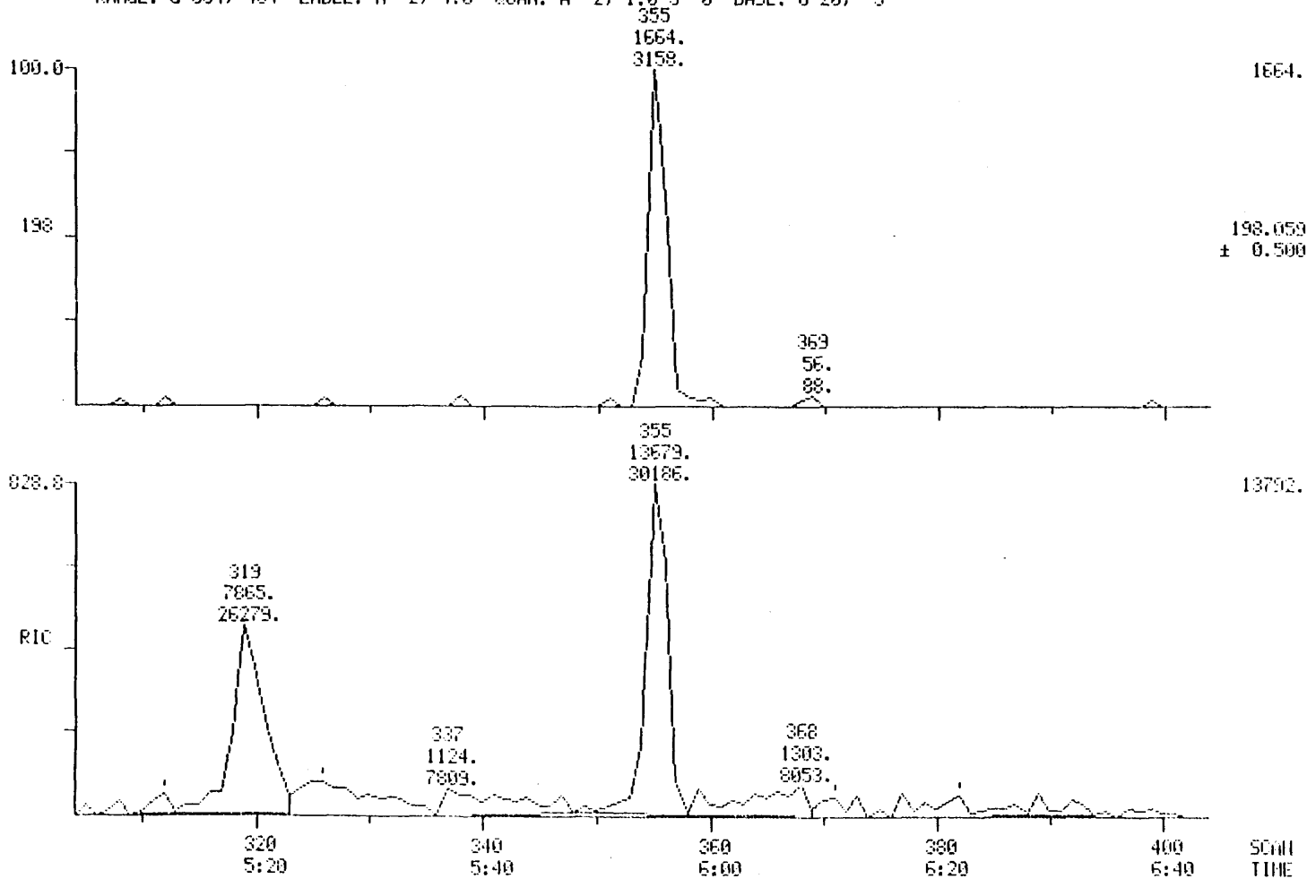
INST ID: 4530 CHESTER LABNET DC # ---15

DFTPP MASS LISTING

Mass List Data: ES0405C01A # 355 Base m/z: 198
04/05/93 9:06:00 + 5:55 Cali: ES0405C01A # 3 RIC: 29024.
Sample: DFTPP
Conds.: ---
#354 to #356 summed - #343

36	0.00	0.	Minima	Min Inten:	45.
493			Maxima #	0	
Mass	% RA	Inten.	Mass	% RA	Inten.
36.00?	2.88	85.	187.00	3.96	117.
37.00?	1.86	55.	193.00	3.65	108.
39.00?	3.62	107.	196.00	5.38	159.
41.00	2.23	66.	198.00	100.00	2956.
50.00	12.18	360.	199.00	7.21	213.
51.00	41.47	1226.	203.00	1.59	47.
52.00	2.98	88.	204.00	5.11	151.
55.00	2.44	72.	205.00	7.21	213.
57.00	4.43	131.	206.00	21.68	641.
66.00	1.62	48.	217.00	7.92	234.
69.00	37.96	1122.	221.00	8.25	244.
71.00	2.54	75.	222.00	2.71	80.
74.00	4.13	122.	224.00	15.02	444.
75.00	8.22	243.	225.00	5.65	167.
76.00	5.35	158.	227.00 S	4.16	123.
77.00	53.32	1576.	229.00	2.23	66.
78.00 S	4.50	133.	238.00	1.79	53.
79.00	3.32	98.	244.00	15.32	453.
80.00	3.92	116.	246.00	3.65	108.
81.00	4.40	130.	253.00	2.47	73.
84.00 S	2.47	73.	255.00	49.46	1462.
88.00	2.57	76.	256.00	7.78	230.
93.00	6.80	201.	258.00	4.97	147.
98.00	6.56	194.	265.00	3.48	103.
99.00	4.47	132.	273.00	2.88	85.
105.00	3.11	92.	274.00	6.33	187.
107.00	16.51	488.	275.00	25.47	753.
110.00	24.15	714.	276.00	2.44	72.
111.00	5.04	149.	277.00	3.79	112.
117.00	19.76	584.	294.00	2.23	66.
118.00	2.60	77.	296.00 S	5.48	162.
122.00	2.67	79.	297.00	1.56	46.
123.00	2.44	72.	303.00	2.00	59.
127.00	41.61	1230.	313.00	1.59	47.
129.00 S	18.44	545.	315.00	1.66	49.
130.00	2.91	86.	323.00	2.81	83.
133.00	2.64	78.	332.00	2.71	80.
135.00	3.76	111.	334.00	3.48	103.
146.00	2.57	76.	352.00	2.50	74.
147.00	3.28	97.	354.00	2.47	73.
148.00 S	5.07	150.	365.00	5.55	164.
156.00	3.52	104.	423.00	5.24	155.
159.00	2.84	84.	441.00	6.66	197.
162.00	1.62	48.	442.00 S	50.81	1502.
167.00	6.70	198.	443.00	8.86	262.
168.00	8.15	241.	477.00?	2.40	71.
175.00	2.81	83.	480.00?	2.40	71.
179.00	6.90	204.	482.00?	1.56	46.
180.00	2.71	80.	493.00?	2.47	73.
186.00	12.99	384.			

RIC+MASS CHROMATOGRAM DATA: ES0405C01A #354 SCANS 304 TO 404
04/05/93 9:06:00 CALI: ES0405C01A #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 304, 404 LABEL: H 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



000035

011869

011869

INST ID: 4530 SAMPLE NUMBER: SBLK (BN)

011870

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 93-- QC REPORT NO.: 04/01/93
SAMPLE MATRIX: WATER CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RB DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW 03/31/93 DATAFILE: 4B03269C01
DATE EXTRACTED: .....
DATE ANALYZED: 04/05/93 DILUTION FACTOR: 1.0

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000036

INST ID: 4530 SAMPLE NUMBER: SBLK (BN)

011871

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 93-- QC REPORT NO.: 04/01/93
SAMPLE MATRIX: WATER CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: RB DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4B03269C01
DATE EXTRACTED: 03/31/93
DATE ANALYZED: 04/05/93 DILUTION FACTOR: 1

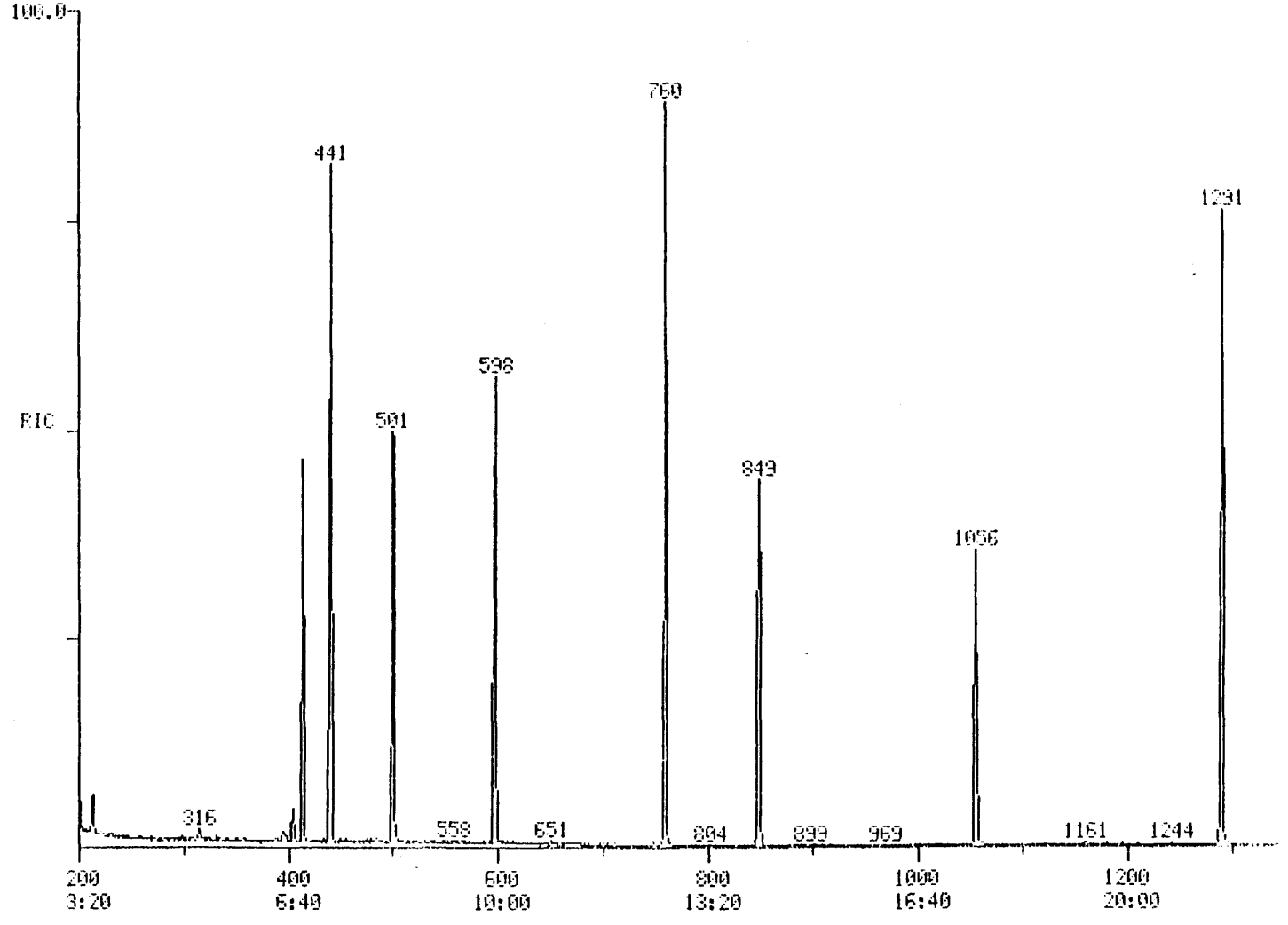
	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER LABNET DC # ---14

RIC
04/05/93 12:08:00
SAMPLE: SBLK (BN)
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4B03269C01 #1 SCANS 200 TO 1350
CALI: 4B03269C01 #3



INST ID: 4530

011872

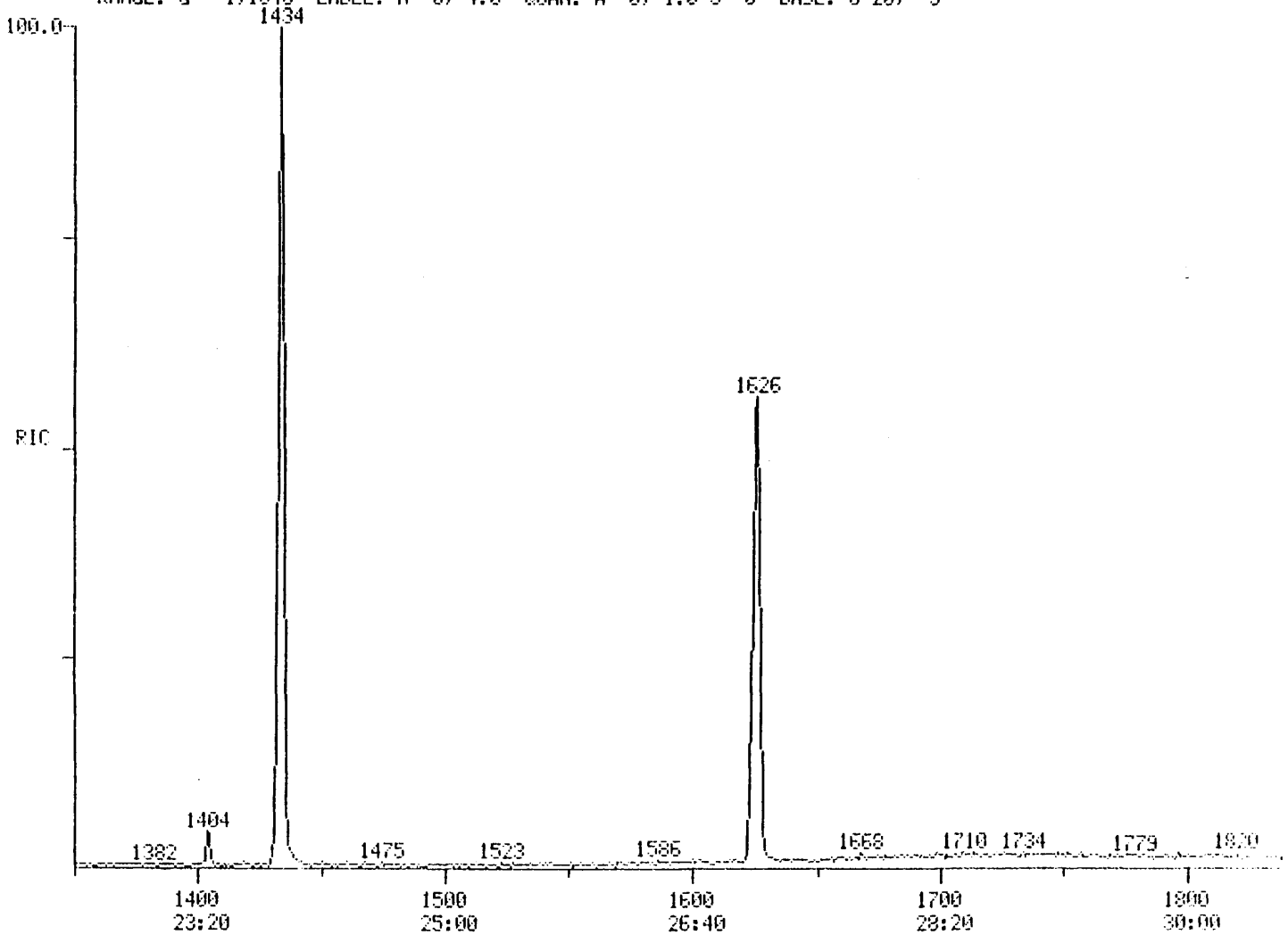
011872

CHESTER LABNET DC # ----14

INST ID: 4530

RIC
04/05/93 12:03:00
SAMPLE: SBLK (BN)
CONDS.: ---
RANGE: G 1,1840 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4B03269C01 #1 SCANS 1350 TO 1840
CALI: 4B03269C01 #3



011873

011873

CHESTER LABNET DC # ---14

011874

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SBLK (BN)		
FILENAME	4B03269C01	INST ID.	4530
CLIENT	CHESTER	ANALYST	SC
DATE INJECTED	04/05/93 12:08:00	VERIFIED BY	
CALIB STD DATE	04/01/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
415	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	2114
598	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	7404
849	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	3615
1056	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	5370
1434	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	4428
1626	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	3165
501	CS20	NITROBENZENE-D5 ** SU3 **	82	74 %	0.838	5449
760	CS25	2-FLUOROBIPHENYL **SU4 **	172	75 %	0.895	9027
1291	CS30	TERPHENYL-D14 ** SU6 **	244	67 %	0.900	10059

000040

011874

011875

Chester LabNet - HOUSTON

Reported on : 7-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-03.269
Sample ID	: KAB0406-031	Date Received	: 30-MAR-1993
Sample Name	: H93-03.269-001	Matrix	: WATER
Project No.	: 18804	Date Collected	: 30-MAR-1993
Checked by	:	Client ID	: LAB BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 7-APR-1993 14:13 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

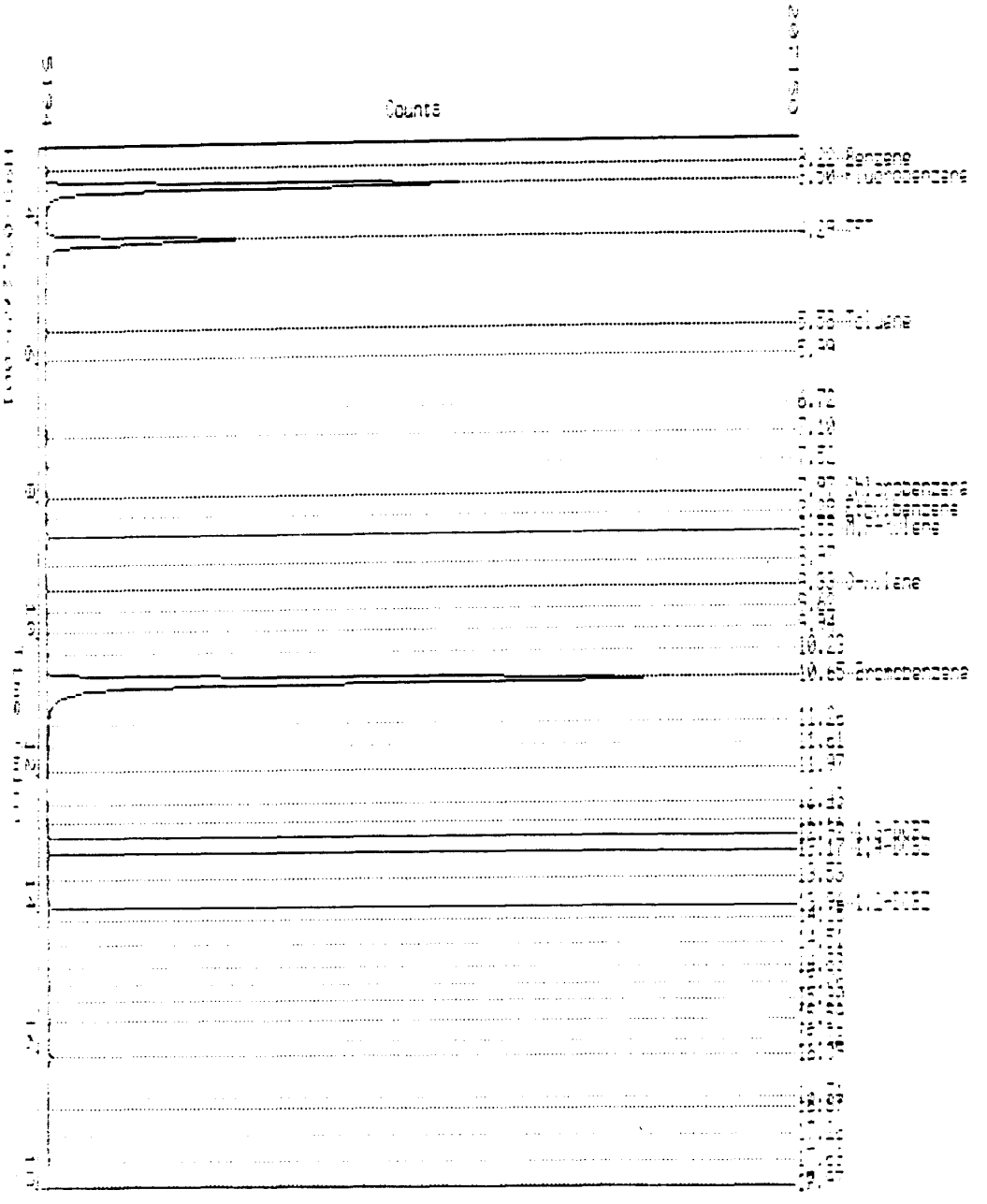
Data file: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: [illegible]

Vert. scale/offset: [illegible]



011876

011877

Chester LabNet - HOUSTON

Date..... 7-APR-1993 16:01
Raw file..... KAB0406-031
Method file..... KBC0406W-1A
Last method update.. 7-APR-1993 15:25
Device..... Channel 15A
Acq. date..... 7-APR-1993 14:13
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... LAB BLANK

Report #... 250298
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID H93-03.269-001
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Sto	BL	Group
Benzene	3.218	0.10	0.240	3104		1	BB	
Fluorobenzene	3.504	0.08		615921		S1	BV	
TFT	4.295	0.15	54.801	326012	R	1	VB	
Toluene	5.583	0.30	0.288	3429		1	BB	
	7.100			3858			VB	
Chlorobenzene	7.970	0.18	0.230	3781		2	BV	
Ethylbenzene	8.280	0.66	0.224	2737		2	VV	
M,P-Xylene	8.548	0.25	0.457	7596		2	VB	
O-xylene	9.327	0.39	0.349	5018		2	VV	
	9.941			3217			BV	
	10.230			2995			VV	
Bromobenzene	10.648	0.24		1143179		S2	VE	
	11.260			12761			EV	
	11.610			6266			EV	
	11.969			3935			EB	
1,3-DCBZ	12.916	0.68	0.203	3180		2	VV	
1,4-DCBZ	13.167	0.13	0.459	6288		2	VV	
1,2-DCBZ	13.958	2.85	0.440	6720		2	BV	
	15.061			2963			BE	
	15.588			4250			BV	
	16.090			5343			VB	
	16.706			2366			BV	
	16.869			3287			VV	
	17.262			2551			VB	
	17.635			5489			BE	
Total:				2201770				

000043

011877

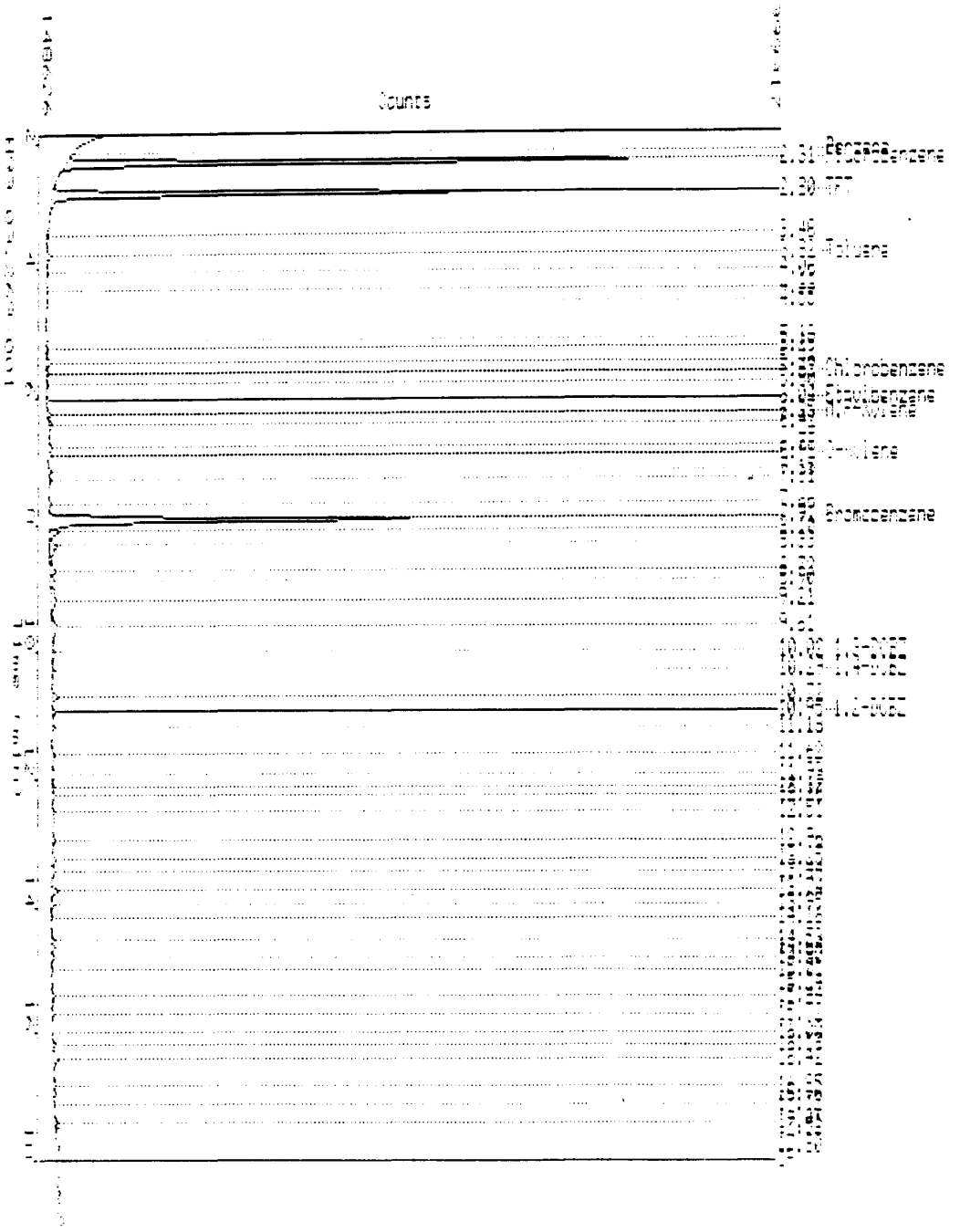
Data File: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: [illegible]

Vert. scale/offset: [illegible]



011878

Chester LabNet - HOUSTON

Date.....	7-APR-1993 15:31	Report #...	250289
Raw file.....	KBB0406-031	Column ID..	DB5
Method file.....	KBC0406W-1B	Method	SW846 8020
Last method update..	6-APR-1993 16:09	Area rej...	4000
Device.....	Channel 14A	Process #..	1
Acq. date.....	7-APR-1993 14:13	Lab ID	H93-03.269-001
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	LAB BLANK		

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Fluorobenzene	2.311	0.12		770567		S1	BB	
TFT	2.804	0.19	49.579	625573	R	1	BB	
Toluene	3.817	0.61	0.647	9528		1	BV	
	4.060			5693			VB	
	4.548			5130			VB	
	5.251			4816			VV	
	5.456			13448			VV	
Chlorobenzene	5.617	0.94	0.442	5891		2	VV	
	5.797			5657			VB	
Ethylbenzene	6.040	0.75	0.245	4025		2	BB	
M,P-xylene	6.255	0.92	0.384	7048		2	BB	
	6.420			6415			BB	
	6.782			7012			BV	
O-xylene	6.909	-0.56	0.298	5669		2	VB	
	7.150			7004			BV	
	7.665			8227			BV	
Bromobenzene	7.913	0.51		595992		S2	VE	
	8.096			23008			EV	
	8.328			35361			EV	
	8.721			17227			VV	
	8.896			12810			VV	
	9.208			34298			VV	
	9.614			30503			VV	
1,3-DCBZ	10.017	5.08	1.065	14436		2	VV	
	10.715			15730			BV	
1,2-DCBZ	10.952	-0.08	0.864	10853		2	VV	
	11.184			4658			VB	
	11.622			4866			BB	
	11.929			8164			BB	
	12.262			5672			VB	
	12.957			11868			BV	
	13.251			10944			VV	
	13.442			11406			VB	
	13.736			17247			BV	
	13.952			7105			VV	
	14.162			5273			VB	
	[illegible]			11320			B[illegible]	
	[illegible]			[illegible]			[illegible]	

011880

14.804	7775	VB
15.008	4712	BB
15.243	4263	BV
15.437	12250	VV
15.721	7729	VB
16.183	7097	BV
16.424	20276	VB
16.846	7000	BV
16.956	5613	VB
17.406	6456	BV
17.803	7394	BB
Total:	2506400	

TABLE 2
PROPOSED SAMPLE NUMBERS AND ANALYSIS FOR PRE-TREATMENT WATER TEST

SAMPLE TYPE	MEDIUM	PROPOSED NUMBER OF SAMPLES	ANALYTICAL TECHNIQUE	ANALYSIS/ EPA METHOD*	DQO LEVEL	FIELD EQUIPMENT WASH BLANKS	TRIP BLANKS	FIELD DUPLICATE
Soil washing wastewater prior to discharge to groundwater treatment plant	Water	1 (3)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr, Cu, Zn, Pb (6010)	III	1	1	1
Recycled Wash Water	Water	5 (4)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) ICP Cr	III	1	1	1

* EPA Method and SW 846 Test Methods for Evaluating Solid Waste, 3rd ed., 1987.

Notes:

(1) Field equipment wash blanks and field duplicates do not apply to the following physical/conventional parameters (pH, COD, TDS).

(2) Trip blank analyzed for BTEX only.

(3) Assumes one discharge to the groundwater treatment plant during the soil washing demonstration test.

(4) Daily composite of grab samples collected every 2 hours.

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of ____

Project Number 18884

Project Location South Cavalcade

Laboratory Keystone

Sampler(s) Wesley Finnell

SAMPLE IDENTITY	Date Sampled	PAH 8270	Metals	TDS, TSS	TOC	COD	BTEX	PH				TOTAL
SC-WR-13	3/2/93	X	X	X	X	X	X	X				

Relinquished by: [signature]	Organization: DFM	Date: 3/30/93	Time 2:24	Seal Intact?		
Received by: Heather J Warnowicz	Organization: CHESTER ENVIRONMENTAL	Date: 3/30/93	Time 2:24pm	Yes	No	N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?		
Received by:	Organization:	Date: / /	Time	Yes	No	N/A

Special Instructions / Remarks: Sample per Operations Plan

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____

011882

011883

DAMES_MOOR
Dames and Moore

Work Order : H93-03.269
Due Date : 2-APR-1993

000049

011884

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Park Drive

Suite 320
Charlotte, NC. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID : S. CAVALCADE
P.O. NUMBER : 18804

WORK ORDER : H93-04.1
DATE RECEIVED : 31-MAR-1993

011885

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.1-001	LAB BLANK	31-MAR-1993	WATER
H93-04.1-002	SC-RW-C	31-MAR-1993	WATER

Analysis ID	Parameter Description
AS_ICP	Arsenic(ICP)
BTEX_8020	BTEX by Method 8020
COD	Chemical Oxygen Demand
CR	Chromium
EXT_8270	Extraction by EPA 8270
PH	Hydrogen ion activity (EPA 150.1)
SV_TCL	Semivolatiles (Target Compound List)
TDS	Total Dissolved Solids(EPA 160.1)
TOC	Total Organic Carbon
TSS	Total Suspended Solids

011886

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-04.1

I. RECEIPT

A. DATE: MAR. 31, 1993

B. NO. OF SAMPLES: (1) SAMPLE.

C. CLIENT ID NUMBERS: SC-WR-C

D. SAMPLE TYPE: Recycled Wash Water

E. ANALYSIS REQUESTED: pH; TOC; COD; TSS; TDS;
cPAH(8270); BTEX(8020);
Metals- As(7060), Cr(6010).

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample (SV ONLY) in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.
Delay of Semi-volatile data (cPAH) due to GC/MS downtime.

I. COMMENTS:

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 25, 1993

Date

000001

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of ____

Project Number: 18804
Project Location: South Cavalcade
Laboratory: Keystone
Sampler(s): Wes Flandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	pH (150.1)	TOC (415.1)	COD (410.1)	TSS (160.2)	TDS (160.1)	cPAH 8270	BTEX 8020	As 7060	Cr	BTEX cPAH	TOTAL
SC-RW-C	3/31/93	X	X	X	X	X	X	X	X	X		
SC-W5(DWC)B											X	
SC-W9(S)C											X	
SC-W9(SSD)C											X	
SC-W9(MCD)C											X	
SC-W9(C1/C2)C											X	

Relinquished by:	[signature]	Organization: Dunest Moore	Date: 3/31/93	Time 345	Seal Intact?		
Received by:	Heather Jutemann	Organization: CHESTER ENVIRONMENTAL	Date: 3/31/93	Time 345	Yes No N/A		
Relinquished by:		Organization:	Date: / /	Time	Seal Intact?		
Received by:		Organization:	Date: / /	Time	Yes No N/A		

Special Instructions / Remarks: per Sampling plan

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____

011887

Keystone Lab - Houston
Water Surrogate Recovery Summary
Keystone Work Order # H93-04.1

011888

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	73	74	67	NA	NA	NA	NA	NA
SC-RW-C	3 *	2 *	2 *	NA	NA	NA	NA	NA

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	35-114	S2 (FBP) = 2-Fluorobiphenyl	43-116
S3 (TPH) = Terphenyl-d14	33-141	S4 (PHL) = Phenol-d5	10-110
S5 (2FP) = 2-Fluorophenol	21-110	S6 (TBP) = 2,4,6-Tribromophenol	10-123
S7 (2CP) = 2-Chlorophenol-d4	33-110**	S8 (DCB) = 1,2-Dichlorobenzene-d4	16-110**

3 out of 6 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable

C H E S T E R L A B N E T - H O U S T O N

WATER SURROGATE RECOVERY SUMMARY

Client Name: Dames & Moore
Chester LabNet Work Order # H93-04.1

CLIENT SAMPLE NUMBER	TFT % RECOVERY
1. LAB BLANK	110
2. SC-RW-C	110

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

TFT = TRIFLUOROTOLUENE

ADVISORY QC LIMITS (65 - 120%)

011890

Summary of Analytical Results

Date received: 31-MAR-1993 Customer: Dames and Moore Job name: H93-04.1

		Samples	
Chester LabNet ID		1-001	1-002
Sampling Point		QA QC	X
Date Sampled		31-MAR-1993	31-MAR-1993
Customer ID		LAB BLANK	SC-RW-C
Parameters	**Units**		
METALS			
Arsenic	µg/L	<37.0	<37.0
Chromium	µg/L	<4.0	7.40
CONVENTIONAL CHEMISTRIES			
Chemical Oxygen Demand	mg/L	<20.0	2600
pH	pH units	6.38	7.32
Total Dissolved Solids	mg/L	<10.0	2160
Total Organic Carbon	mg/L	<1.0	419
Total Suspended Solids	mg/L	<2.0	50.0
BTEX 8020			
Benzene	µg/L	<2.0	<100
Toluene	µg/L	<3.0	<150
Ethyl Benzene	µg/L	<3.0	<150
Total Xylenes	µg/L	<3.0	<150

INST ID: 4510

CHESTER DC # --- - 8

SAMPLE NUMBER: SC-RW-C

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400102
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: ...

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

DATAFILE: 9U04001C02
DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	R
C740	CHRYSENE	10 U	R
C765	BENZO(B)FLUORANTHENE	10 U	R
C770	BENZO(K)FLUORANTHENE	10 U	R
C775	BENZO(A)PYRENE	10 U	R
C780	INDENO(1,2,3-CD)PYRENE	10 U	R
C785	DIBENZO(A,H)ANTHRACENE	10 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4510

CHESTER DC # ---
SAMPLE NUMBER: SC-RW-C

- 8

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930400102
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: RG

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/31/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

DATAFILE: 9U04001C02
DILUTION FACTOR: 1.0

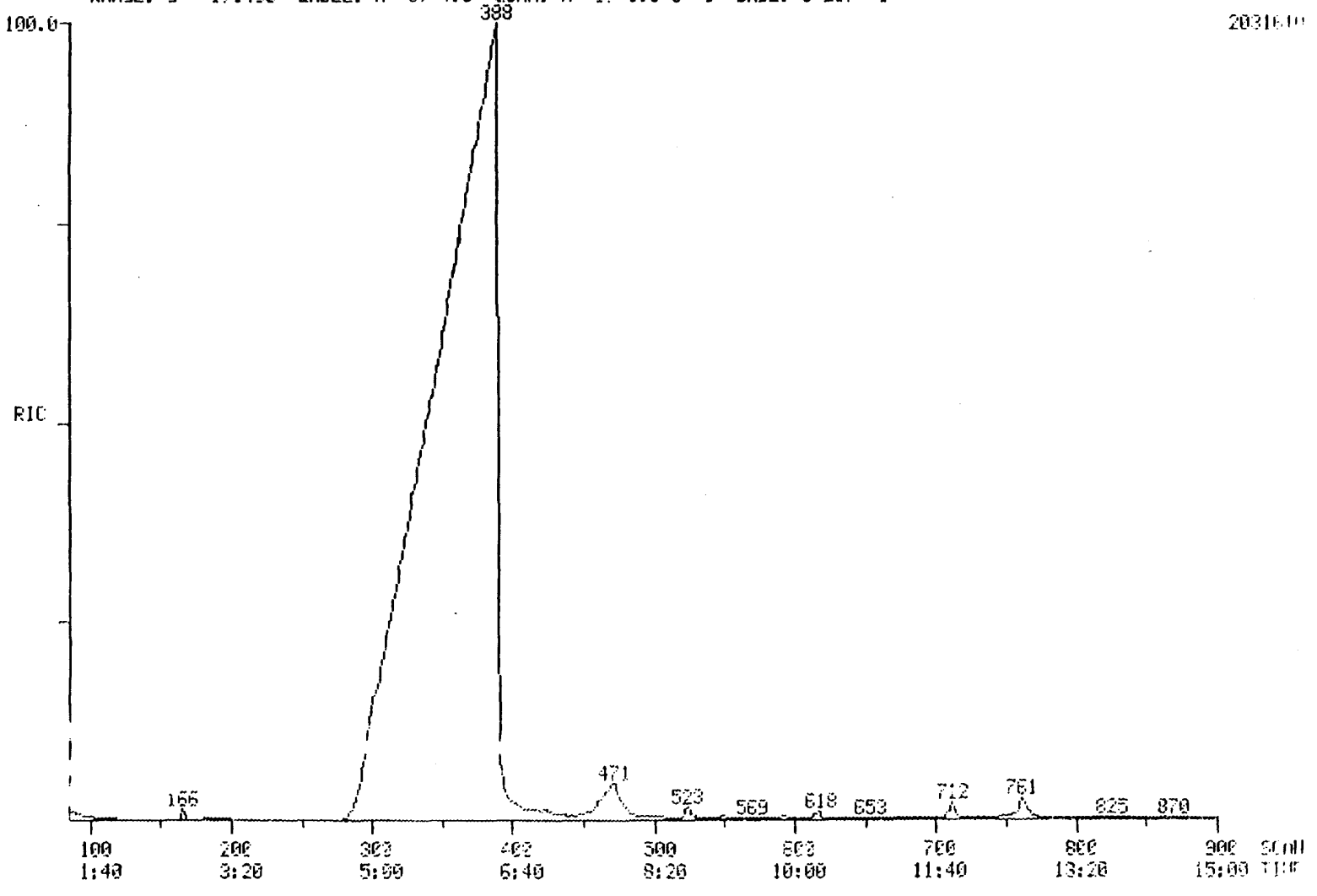
	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10	22
C540	ACENAPHTHYLENE	10 U	R
C550	ACENAPHTHENE	10	6 J
C590	FLUORENE	10	4 J
C640	PHENANTHRENE	10	7 J
C645	ANTHRACENE	10	1 J
C655	FLUORANTHENE	10	1 J
C715	PYRENE	10	1 J
C730	BENZO(A)ANTHRACENE	10 U	R
C740	CHRYSENE	10 U	R
C765	BENZO(B)FLUORANTHENE	10 U	R
C770	BENZO(K)FLUORANTHENE	10 U	R
C775	BENZO(A)PYRENE	10 U	R
C780	INDENO(1,2,3-CD)PYRENE	10 U	R
C785	DIBENZO(A,H)ANTHRACENE	10 U	R
C790	BENZO(GHI)PERYLENE	10 U	R

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

RIC
04/05/93 17:36:00
SAMPLE: SC-RW-C
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04001C02 #1 SCANS 85 TO 900
CALI: 9U04001C02 #3

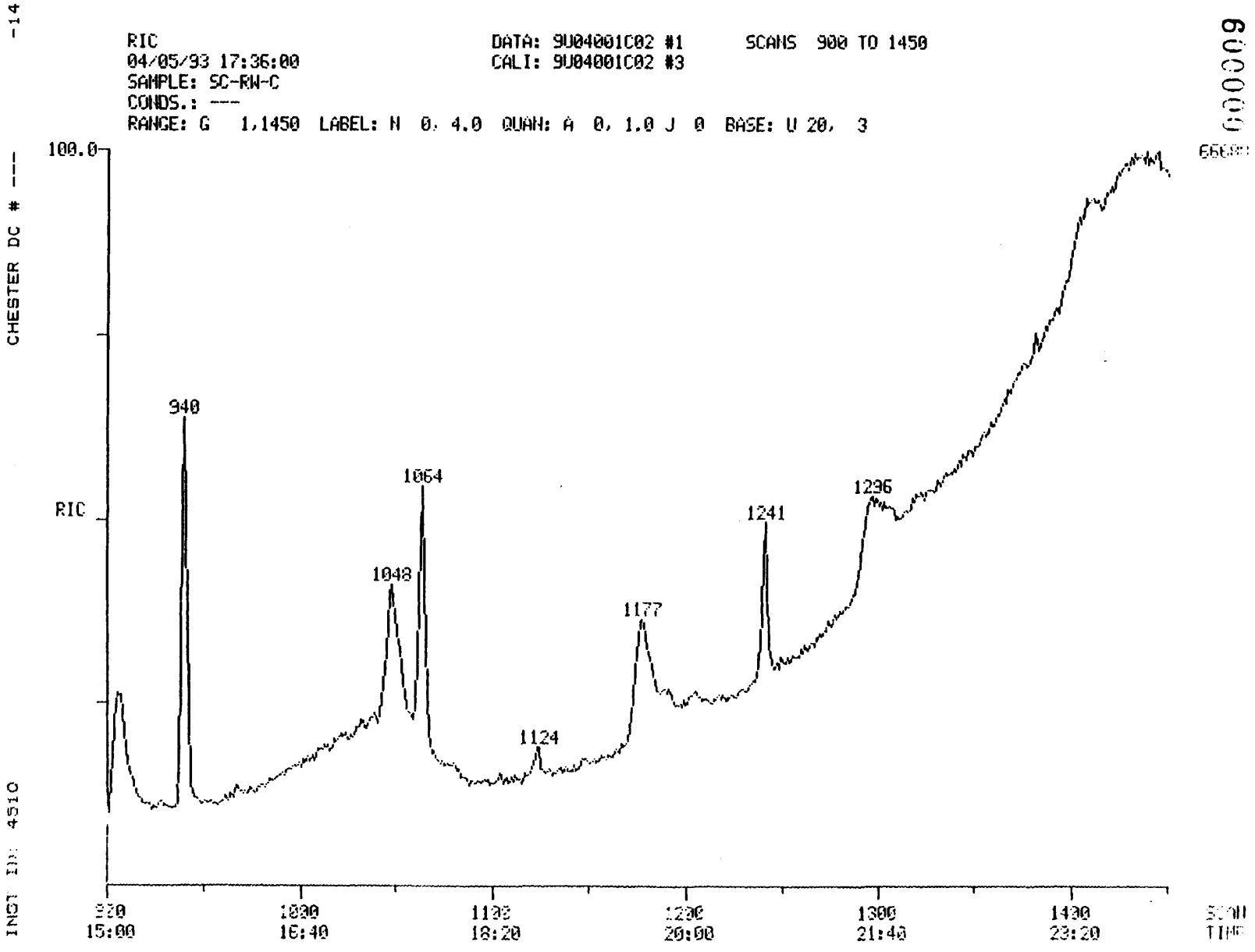


CHESTER DC # ---

INST ID: 4910

011893

011893



011894

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CHESTER DC # --- -14

011895

SEMIVOLATILE WATER REPORT

SAMPLE ID. 5C-RW-C

FILENAME 9U04001C02 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/05/93 17:36:00 VERIFIED BY JDD

CALIB STD DATE 03/30/93 CORR. FACTOR 1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
166	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	1023
298	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	4420
523	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	2964
712	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	5036
1064	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	2813
1241	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	1720
224	CS20	NITROBENZENE-D5 ** SU3 **	82	3 %	0.752	151
449	CS25	2-FLUOROBIPHENYL ** SU4 **	172	2 %	0.859	188
941	CS30	TERPHENYL-D14 ** SU6 **	244	2 %	0.884	151
301	C450	NAPHTHALENE	128	22 UG/L	1.010	5364
527	C550	ACENAPHTHENE	153	6 UG/L	1.008	787
572	C590	FLUORENE	166	4 UG/L	1.132	764
714	C640	PHENANTHRENE	178	7 UG/L	1.003	2137
720	C645	ANTHRACENE	178	1 UG/L	1.011	268
870	C655	FLUORANTHENE	202	1 UG/L	1.222	440
876	C715	PYRENE	202	1 UG/L	0.842	266

Chester LabNet - HOUSTON

Reported on : 8-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.1
Sample ID	: KAB0406-034	Date Received	: 31-MAR-1993
Sample Name	: H93-04.1-002	Matrix	: WATER
Project No.	: 18804	Date Collected	: 31-MAR-1993
Checked by	: MTM	Client ID	: SC-RW-C

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 7-APR-1993 16:30 Dilution Factor : 50.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	100	100 U
108-88-3	Toluene	150	150 U
100-41-4	Ethylbenzene	150	150 U
106-42-3	Total Xylenes	150	150 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

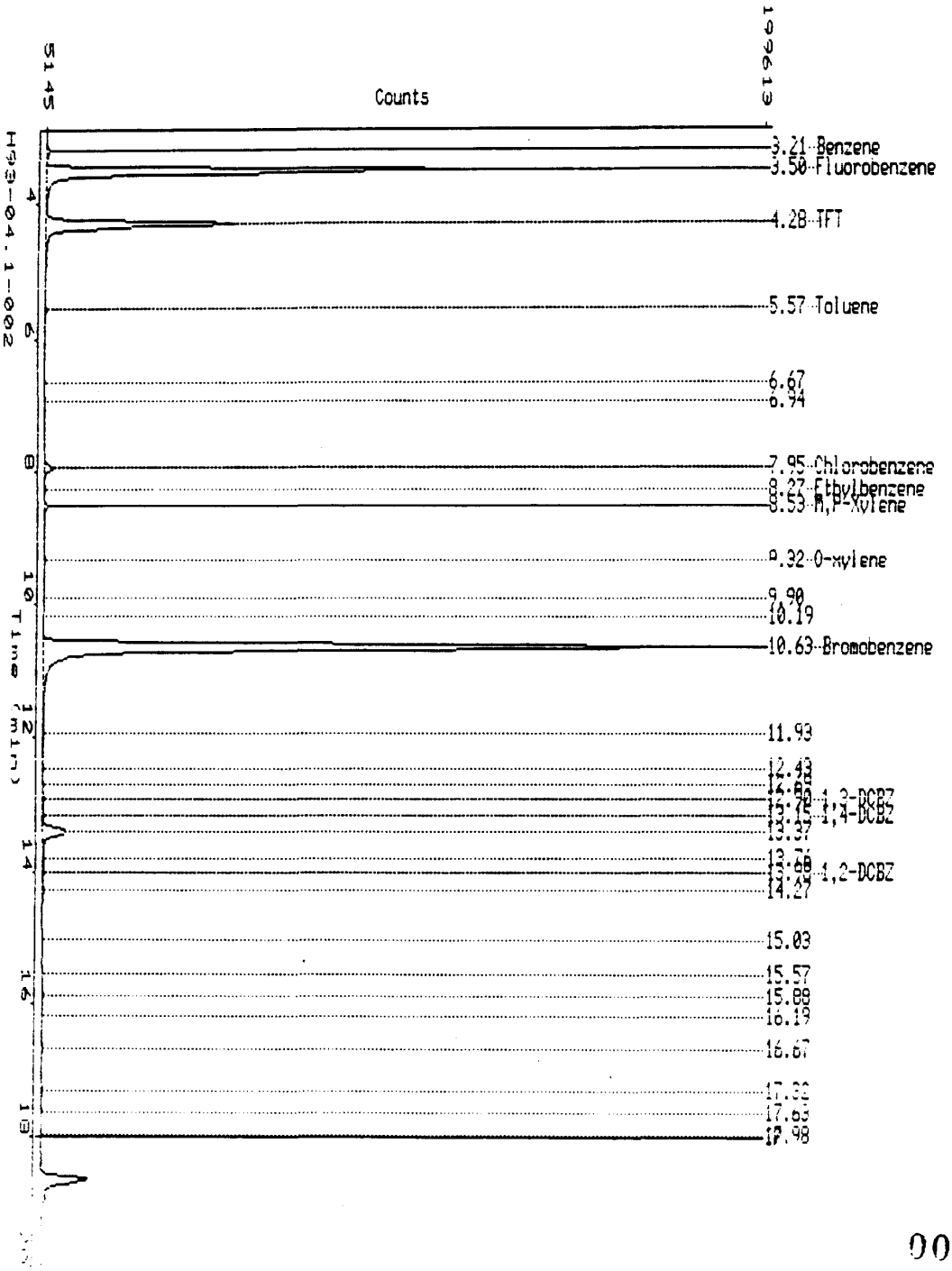
Data file: NAI$DIR:[NAI.BTEX]KAB0406-034

Report: 250695

Acquired: 7-APR-1993 16:30:54

Time range: 2.90-20.00

Vert. scale/offset: 0.8/0



011897

SC-RW-C

000012

011898

Chester LabNet - HOUSTON

Date..... 8-APR-1993 15:10
Raw file..... KAB0406-034
Method file..... KBC0406W-1A
Last method update.. 7-APR-1993 16:23
Device..... Channel 15A
Acq. date..... 7-APR-1993 16:30
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-RW-C

Report #... 250718
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID H93-04.1-002
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.211	0.54	15.921	3936		1	BV	
Fluorobenzene	3.495	0.59		589176		S1	VV	
TFT	4.284	0.81	2784.051	316865	R	1	VE	
Toluene	5.572	0.96	16.712	3802		1	EB	
Chlorobenzene	7.953	1.18	44.149	13914		2	BE	
Ethylbenzene	8.270	1.23	9.713	2278		2	EV	
M,P-Xylene	8.532	1.21	16.908	5389		2	VB	
O-xylene	9.322	0.67	10.019	2765		2	BB	
Bromobenzene	10.632	1.19		1096276		S2	BE	
	11.928			6446			EV	
1,3-DCBZ	12.905	1.34	11.478	3447		2	VV	
1,4-DCBZ	13.150	1.12	12.669	3329		2	VV	
	13.372			49973			VE	
	13.763			2465			EV	
1,2-DCBZ	13.982	1.39	11.820	3459		2	EV	
	14.271			3803			VB	
	15.034			2058			BB	
	15.877			4428			BV	
	16.675			3970			BB	
	17.322			3924			BV	
Total:				2130510				

000013

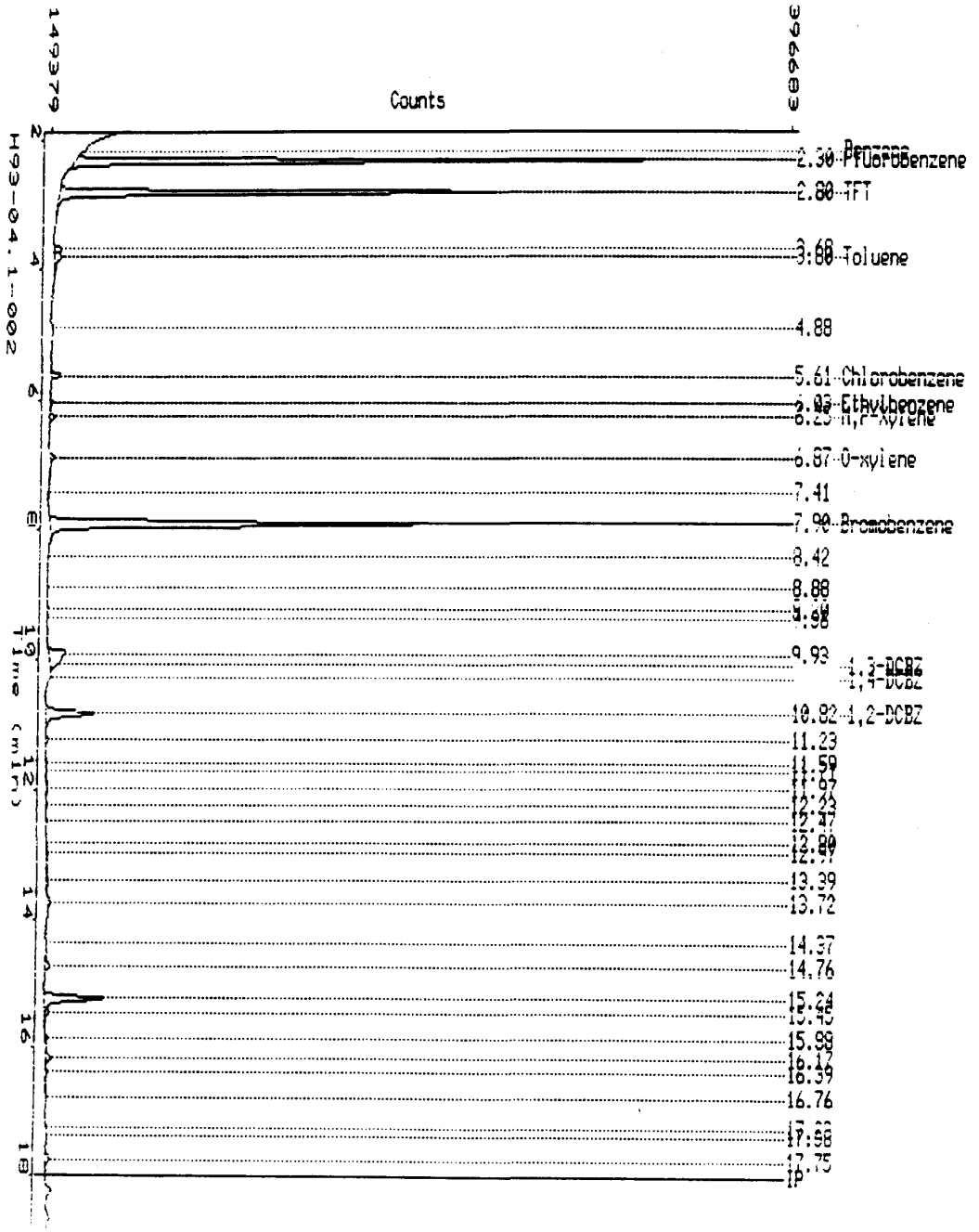
Data file: NAI$DIR:[NAI.BTEX]KBB0406-034

Report: 250696

Acquired: 7-APR-1993 16:30:54

Time range: 1.88-20.00

Vert. scale/offset: 0.8/0



011899

000014

Chester LabNet - HOUSTON

Date..... 8-APR-1993 14:44
Raw file..... KBB0406-034
Method file..... KBC0406W-1B
Last method update.. 7-APR-1993 16:02
Device..... Channel 14A
Acq. date..... 7-APR-1993 16:30
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-RW-C

Report #... 25069e
Column ID.. DB5
Method SW846 8020
Area rej... 4000
Process #.. 2
Lab ID H93-04.1-002
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Fluorobenzene	2.302	0.63		742599		S1	BB	
TFT	2.797	0.59	2456.475	597407	R	1	BB	
	3.684			17616			BV	
Toluene	3.804	1.40	100.058	28417		1	VB	
Chlorobenzene	5.614	1.17	52.184	13300		2	BB	
Ethylbenzene	6.033	1.16	13.345	4193		2	BB	
M,P-Xylene	6.247	1.37	22.316	7829		2	BB	
O-xylene	6.869	1.84	26.551	9663		2	BB	
Bromobenzene	7.899	1.37		569747		S2	BB	
	9.926			72533			BB	
1,2-DCBZ	10.821	7.81	422.210	101367		2	BV	
	11.230			6272			VB	
	11.973			7271			VV	
	12.228			6038			VV	
	13.385			6622			BB	
	13.717			9761			BB	
	14.757			9893			BB	
	15.238			115511			BE	
	15.453			9054			EV	
	15.884			6435			EV	
	16.173			19447			VV	
	16.394			4677			VE	
	17.749			9946			BB	
Total:				2407560				

011901

CALIBRATIONS

CHESTER LABNET-HOUSTON

000016

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 03/30/93
STANDARD FILE: FS0405C02A
DATE: 04/03/93 TIME: 11:09
MAXIMUM % D FOR CCC IS 20

011902

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.911	1.841	-3.635
C325	BIS(2-CHLOROETHYL)ETHE	1.904	1.619	-14.993
C330	2-CHLOROPHENOL	1.458	1.479	1.456
C335	1,3-DICHLOROBENZENE	1.510	1.559	3.254
C340	1,4-DICHLOROBENZENE	1.602	1.613	0.641
C345	BENZYL ALCOHOL	0.983	0.814	-17.213
C350	1,2-DICHLOROBENZENE	1.495	1.488	-0.488
C355	2-METHYLPHENOL	1.587	1.559	-1.805
C357	2,2'-OXYBIS(1-CHLOROPR	1.913	2.192	14.616
C365	4-METHYLPHENOL	1.690	1.669	-1.284
C370	N-NITROSODIPROPYLAMINE	1.146	1.106	-3.524
C375	HEXACHLOROETHANE	0.629	0.607	-3.588
C410	NITROBENZENE	0.344	0.424	22.930
C415	ISOPHORONE	0.742	0.815	9.880
C420	2-NITROPHENOL	0.217	0.213	-1.849
C425	2,4-DIMETHYLPHENOL	0.309	0.307	-0.788
C430	BENZOIC ACID	0.227	0.224	-1.467
C435	BIS(2-CHLOROETHOXY)MET	0.537	0.479	-10.759
C440	2,4-DICHLOROPHENOL	0.280	0.274	-2.240
C445	1,2,4-TRICHLOROBENZENE	0.279	0.295	5.913
C450	NAPHTHALENE	1.067	1.104	3.424
C455	4-CHLOROANILINE	0.391	0.323	-17.473
C460	HEXACHLOROBUTADIENE	0.106	0.111	4.256
C465	P-CHLORO-M-CRESOL	0.301	0.282	-6.252
C470	2-METHYLNAPHTHALENE	0.805	0.788	-2.092
C510	HEXACHLOROCYCLOPENTADI	0.234	0.217	-7.149
C515	2,4,6-TRICHLOROPHENOL	0.304	0.303	-0.361
C520	2,4,5-TRICHLOROPHENOL	0.331	0.356	7.395
C525	2-CHLORONAPHTHALENE	1.153	1.159	0.455
C530	2-NITROANILINE	0.330	0.390	18.234
C535	DIMETHYL PHTHALATE	1.226	1.141	-6.941
C540	ACENAPHTHYLENE	1.737	1.680	-3.300
C545	3-NITROANILINE	0.338	0.330	-2.190
C550	ACENAPHTHENE	0.989	0.957	-3.292
C555	2,4-DINITROPHENOL	0.169	0.133	-21.630
C560	4-NITROPHENOL	0.099	0.069	-30.068
C565	DIBENZOFURAN	1.535	1.531	-0.277
C570	2,4-DINITROTOLUENE	0.358	0.347	-3.145
C543	2,6-DINITROTOLUENE	0.358	0.386	7.802
C580	DIETHYL PHTHALATE	1.162	1.094	-5.894
C585	4-CHLOROPHENYL PHENYL	0.556	0.528	-5.044
C590	FLUORENE	1.195	1.170	-2.099
C595	4-NITROANILINE	0.326	0.298	-8.547
C610	4,6-DINITRO-2-METHYLPH	0.155	0.144	-6.838
C615	N-NITROSODIPHENYLAMINE	0.709	0.670	-5.526
C625	4-BROMOPHENYL PHENYL E	0.183	0.174	-4.571
C630	HEXACHLOROBENZENE	0.156	0.162	3.798
C635	PENTACHLOROPHENOL	0.110	0.089	-18.333
C640	PHENANTHRENE	1.200	1.223	1.975
C645	ANTHRACENE	1.222	1.295	6.021
C650	DI-N-BUTYL PHTHALATE	1.554	1.644	5.786
C655	FLUORANTHENE	1.084	1.216	12.198

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C715	PYRENE	1.694	1.692	-0.120
C720	BUTYL BENZYL PHTHALATE	0.920	0.870	-5.357
C725	3,3'-DICHLOROBENZIDINE	0.383	0.359	-6.271
C730	BENZO(A)ANTHRACENE	1.386	1.318	-4.866
C745	BIS(2-ETHYLHEXYL)PHTHA	1.272	1.290	1.408
C740	CHRYSENE	1.113	1.128	1.327
C760	DI-N-OCTYL PHTHALATE	2.485	2.771	11.530
C765	BENZO(B)FLUORANTHENE	1.563	1.628	4.189
C770	BENZO(K)FLUORANTHENE	1.250	1.252	0.164
C775	BENZO(A)PYRENE	1.124	1.145	1.877
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.808	2.342
C785	DIBENZO(A,H)ANTHRACENE	0.808	0.801	-0.867
C790	BENZO(GHI)PERYLENE	0.831	0.836	0.643
C310	N-NITROSODIMETHYLAMINE	1.075	1.331	23.835
C620	1,2-DIPHENYL-HYDRAZINE	1.095	1.082	-1.185
CS70	2-CHLOROPHENOL-D4 ** S	1.828	1.961	7.271
CS75	1,2-DICHLOROBENZENE-D4	0.866	0.885	2.187
C647	CARBAZOLE	1.197	1.246	4.050
CS50	2-FLUOROPHENOL ** SU1	1.588	1.649	3.801
CS45	PHENOL-D5 ** SU2 **	1.977	2.167	9.566
CS55	2,4,6-TRIBROMOPHENOL	0.097	0.090	-6.694
CS20	NITROBENZENE-D5 ** SU3	0.342	0.401	17.214
CS25	2-FLUOROBIPHENYL ** SU	1.162	1.245	7.130
CS30	TERPHENYL-D14 ** SU6	1.230	1.392	13.108

BENZENETHIOL
METHYL CHRYSENE
QUINOLINE
C720 1-METHYLNAPHTHALENE
7,12-DIMETHYLBENZ(A)ANTHRACE
DIBENZ(A,H)ACRIDINE
3+4-METHYLPHENOL
INDENE
A950 PYRIDINE
A953 2,6-DICHLOROPHENOL
A987 2,5-DICHLOROPHENOL
A988 3,4-DICHLOROPHENOL
A989 2,3-DICHLOROPHENOL
A990 3,5-DICHLOROPHENOL
A991 1,3,5-TRICHLOROBENZENE
A992 1,2,3-TRICHLOROBENZENE

CHESTER DC # ----17

011904

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0405C02A

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/05/93 11:09:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	164	40	12602	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	296	40	45124	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	518	40	24120	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	708	40	31724	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1061	40	22750	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1237	40	17535	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	88	50	25968	0.537	1.648
CS45	PHENOL-D5 ** SU2 **	99	163	50	34129	0.994	2.167
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	626	50	2725	1.208	0.090
CS20	NITROBENZENE-D5 ** SU3 **	82	222	50	22606	0.750	0.401
CS25	2-FLUOROBIPHENYL ** SU4 **	172	443	50	37536	0.855	1.245
CS30	TERPHENYL-D14 ** SU6 **	244	938	50	39576	0.884	1.392
C315	PHENOL	94	165	50	29002	1.006	1.841
C325	BIS(2-CHLOROETHYL)ETHER	93	153	50	25496	0.933	1.619
C330	2-CHLOROPHENOL	128	155	50	23303	0.945	1.479
C335	1,3-DICHLOROBENZENE	146	160	50	24559	0.976	1.559
C340	1,4-DICHLOROBENZENE	146	166	50	25402	1.012	1.613
C345	BENZYL ALCOHOL	108	190	50	12821	1.159	0.814
C350	1,2-DICHLOROBENZENE	146	181	50	23441	1.104	1.488
C355	2-METHYLPHENOL	108	218	50	24554	1.329	1.559
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	205	50	34534	1.250	2.192
C365	4-METHYLPHENOL	108	237	50	26285	1.445	1.669
C370	N-NITROSODIPROPYLAMINE	70	219	50	17419	1.335	1.106
C375	HEXACHLOROETHANE	117	210	50	9554	1.280	0.607
C410	NITROBENZENE	77	224	50	23892	0.757	0.424
C415	ISOPHORONE	82	254	50	45979	0.858	0.815
C420	2-NITROPHENOL	139	259	50	12028	0.875	0.213
C425	2,4-DIMETHYLPHENOL	107	290	50	17319	0.980	0.307
C430	BENZOIC ACID	122	327	50	12613	1.105	0.224
C435	BIS(2-CHLOROETHOXY)METHANE	93	290	50	27036	0.980	0.479
C440	2,4-DICHLOROPHENOL	162	301	50	15434	1.017	0.274
C445	1,2,4-TRICHLOROBENZENE	180	295	50	16648	0.997	0.295
C450	NAPHTHALENE	128	298	50	62257	1.007	1.104
C455	4-CHLOROANILINE	127	323	50	18215	1.091	0.323
C460	HEXACHLOROBUTADIENE	225	329	50	6262	1.111	0.111
C465	P-CHLORO-M-CRESOL	107	409	50	15928	1.382	0.282
C470	2-METHYLNAPHTHALENE	142	385	50	44433	1.301	0.788
C510	HEXACHLOROCYCLOPENTADIENE	237	418	50	6543	0.807	0.217
C515	2,4,6-TRICHLOROPHENOL	196	438	50	9122	0.846	0.303
C520	2,4,5-TRICHLOROPHENOL	196	453	50	10730	0.875	0.356
C525	2-CHLORONAPHTHALENE	162	445	50	34933	0.859	1.159
C530	2-NITROANILINE	65	475	50	11749	0.917	0.390
C535	DIMETHYL PHTHALATE	163	512	50	34399	0.988	1.141
C540	ACENAPHTHYLENE	152	496	50	50650	0.958	1.680
C545	3-NITROANILINE	138	532	50	9963	1.027	0.330
C550	ACENAPHTHENE	153	522	50	28843	1.008	0.957

011905

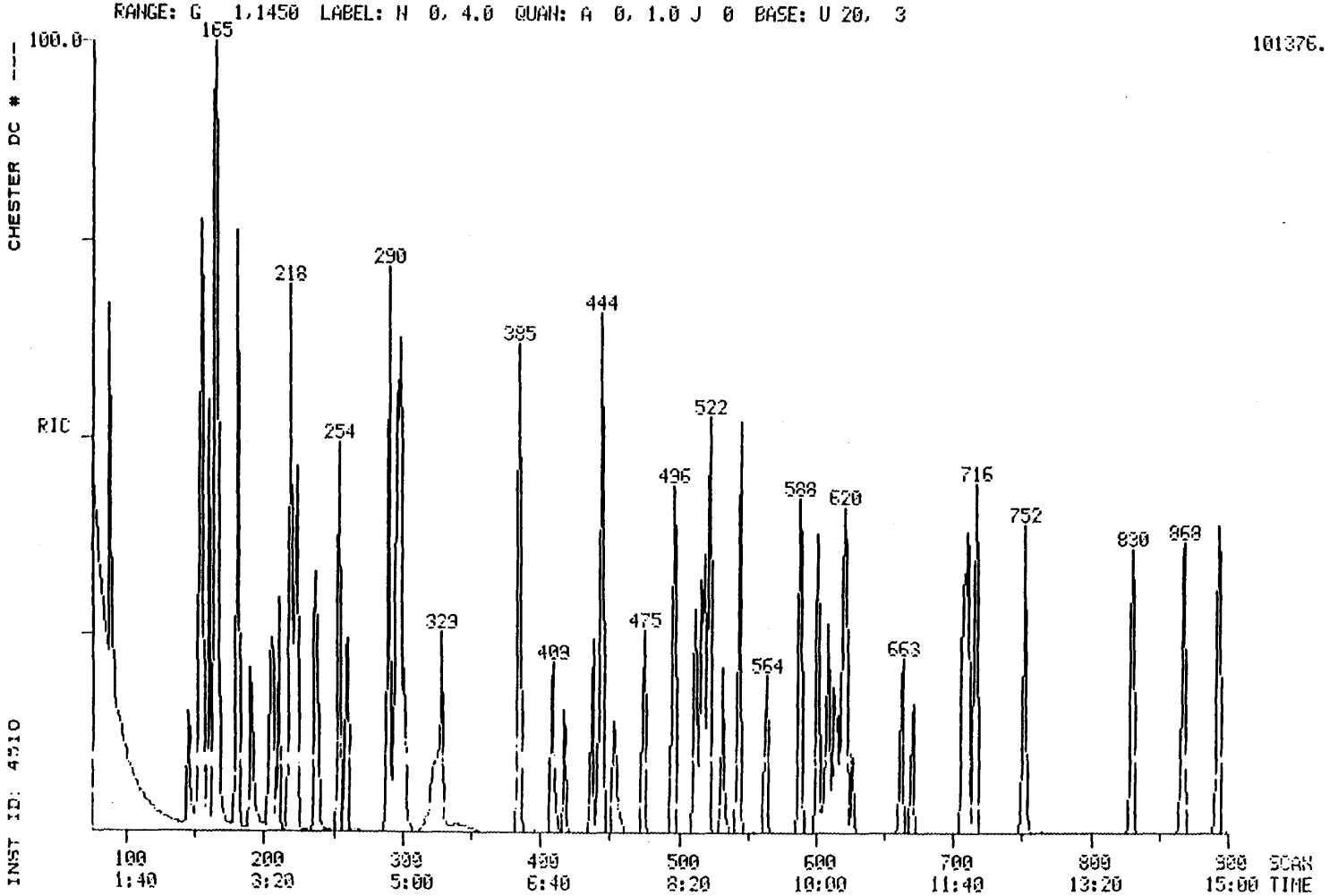
SV STANDARD REPORT PAGE 2

DATAFILE FS0405C02A

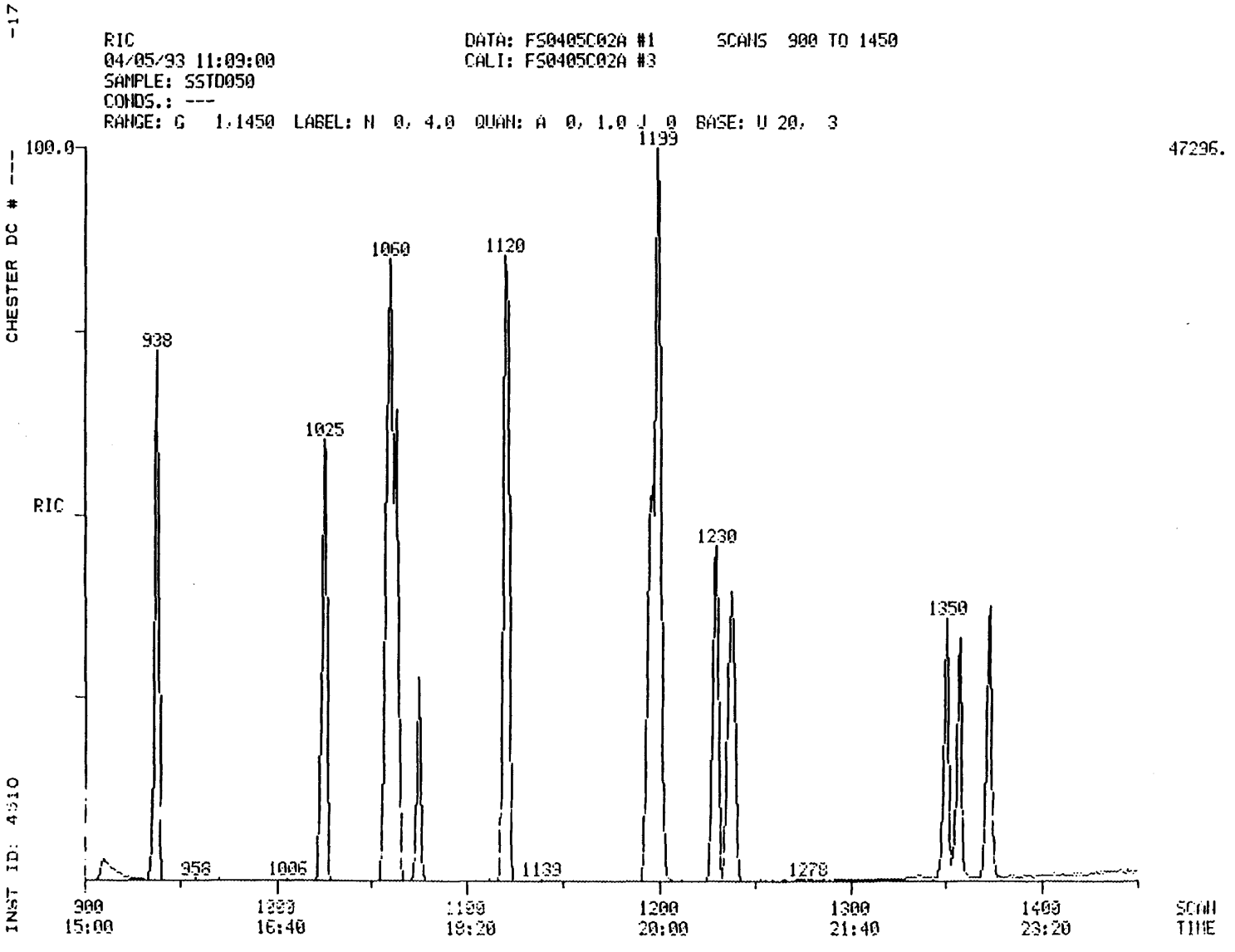
	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	544	50	4000	1.050	0.133
C560	4-NITROPHENOL	109	601	50	2079	1.160	0.069
C565	DIBENZOFURAN	168	544	50	46150	1.050	1.531
C570	2,4-DINITROTOLUENE	165	564	50	10460	1.089	0.347
C543	2,6-DINITROTOLUENE	165	516	50	11629	0.996	0.386
C580	DIETHYL PHTHALATE	149	609	50	32973	1.176	1.094
C585	4-CHLOROPHENYL PHENYL ETHER	204	601	50	15922	1.160	0.528
C590	FLUORENE	166	588	50	35262	1.135	1.170
C595	4-NITROANILINE	138	613	50	8999	1.183	0.298
C610	4,6-DINITRO-2-METHYLPHENOL	198	616	50	5724	0.870	0.144
C615	N-NITROSODIPHENYLAMINE	169	622	50	26564	0.879	0.670
C625	4-BROMOPHENYL PHENYL ETHER	248	662	50	6911	0.935	0.174
C630	HEXACHLOROBENZENE	284	670	50	6414	0.946	0.162
C635	PENTACHLOROPHENOL	266	706	50	3545	0.997	0.089
C640	PHENANTHRENE	178	710	50	48508	1.003	1.223
C645	ANTHRACENE	178	716	50	51368	1.011	1.295
C650	DI-N-BUTYL PHTHALATE	149	830	50	65198	1.172	1.644
C655	FLUORANTHENE	202	867	50	48238	1.225	1.216
C715	PYRENE	202	893	50	48111	0.842	1.692
C720	BUTYL BENZYL PHTHALATE	149	1025	50	24754	0.966	0.870
C725	3,3'-DICHLOROBENZIDINE	252	1075	50	10218	1.013	0.359
C730	BENZO(A)ANTHRACENE	228	1059	50	37486	0.998	1.318
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1120	50	36680	1.056	1.290
C740	CHRYSENE	228	1064	50	32085	1.003	1.128
C760	DI-N-OCTYL PHTHALATE	149	1200	50	60746	0.970	2.771
C765	BENZO(B)FLUORANTHENE	252	1196	50	35693	0.967	1.628
C770	BENZO(K)FLUORANTHENE	252	1198	50	27443	0.968	1.252
C775	BENZO(A)PYRENE	252	1229	50	25103	0.994	1.145
C780	INDENO(1,2,3-CD)PYRENE	276	1350	50	17720	1.091	0.808
C785	DIBENZO(A,H)ANTHRACENE	278	1357	50	17567	1.097	0.801
C790	BENZO(GHI)PERYLENE	276	1372	50	18323	1.109	0.836
C620	1,2-DIPHENYL-HYDRAZINE						

RIC
04/05/93 11:09:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0405C02A #1 SCANS 75 TO 900
CALI: FS0405C02A #3



011906


-17
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04/05/93 11:09:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1.1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0405C02A #1
CALI: FS0405C02A #3
SCANS 900 TO 1450
CHESTER DC # ---
INST ID: 4310
100.0
RIC
47296.
938
958
1006
1025
1060
1120
1139
1199
1230
1278
1350
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
SCAN
TIME

011907

Quantitation Report File: FS0405C02A

Data: FS0405C02A.TI
04/05/93 11:09:00
Sample: SSFD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C850	2-FLUOROPHENOL ** SU1 **	
8	C845	PHENOL-D5 ** SU2 **	
9	C855	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C820	NITROBENZENE-D5 ** SU3 **	
11	C825	2-FLUOROBIPHENYL ** SU4 **	
12	C830	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011908

011908

011909

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	164	2:44	1	1.000	A BB	12602.	40.000 UG/L	0.99
2	136	296	4:56	2	1.000	A BB	45124.	40.000 UG/L	0.99
3	164	518	8:38	3	1.000	A VB	24120.	40.000 UG/L	0.99
4	188	708	11:48	4	1.000	A BB	31724.	40.000 UG/L	0.99
5	240	1061	17:41	5	1.000	A BB	22750.	40.000 UG/L	0.99
6	264	1237	20:37	6	1.000	A BB	17535.	40.000 UG/L	0.99
7	112	88	1:28	1	0.537	A BB	25968.	50.000 UG/L	1.24
8	99	163	2:43	1	0.994	A BB	34129.	50.000 UG/L	1.24
9	330	626	10:26	3	1.208	A BB	2725.	50.000 UG/L	1.24
10	82	222	3:42	2	0.750	A BB	22606.	50.000 UG/L	1.24
11	172	443	7:23	3	0.855	A BB	37536.	50.000 UG/L	1.24
12	244	938	15:38	5	0.884	A BB	39576.	50.000 UG/L	1.24
13	94	165	2:45	1	1.006	A BB	29002.	50.000 UG/L	1.24
14	93	153	2:33	1	0.933	A VB	25496.	50.000 UG/L	1.24
15	108	155	2:35	1	0.945	A BB	23303.	50.000 UG/L	1.24
16	146	160	2:40	1	0.976	A BB	24559.	50.000 UG/L	1.24
17	146	166	2:46	1	1.012	A BB	25402.	50.000 UG/L	1.24
18	108	190	3:10	1	1.159	A BB	12821.	50.000 UG/L	1.24
19	146	181	3:01	1	1.104	A BB	23441.	50.000 UG/L	1.24
20	108	218	3:38	1	1.329	A BB	24554.	50.000 UG/L	1.24
21	45	205	3:25	1	1.250	A BB	34534.	50.000 UG/L	1.24
22	108	237	3:57	1	1.445	A BB	26285.	50.000 UG/L	1.24
23	70	219	3:39	1	1.335	M XX	17419.	50.000 UG/L	1.24
24	117	210	3:30	1	1.280	A BB	9554.	50.000 UG/L	1.24
25	77	264	3:44	2	0.757	A VB	23892.	50.000 UG/L	1.24
26	82	254	4:14	2	0.858	A BB	45979.	50.000 UG/L	1.24
27	139	259	4:19	2	0.875	A BB	12028.	50.000 UG/L	1.24
28	107	290	4:50	2	0.980	A BB	17319.	50.000 UG/L	1.24
29	122	327	5:27	2	1.105	A BB	12613.	50.000 UG/L	1.24
30	93	290	4:50	2	0.980	A BB	27036.	50.000 UG/L	1.24
31	162	301	5:01	2	1.017	A BB	15434.	50.000 UG/L	1.24
32	180	295	4:55	2	0.997	A BB	16648.	50.000 UG/L	1.24
33	128	298	4:58	2	1.007	A BB	62257.	50.000 UG/L	1.24
34	127	323	5:23	2	1.091	M XX	18215.	50.000 UG/L	1.24
35	225	329	5:29	2	1.111	A BB	6262.	50.000 UG/L	1.24
36	107	409	6:49	2	1.382	A BB	15928.	50.000 UG/L	1.24
37	142	385	6:25	2	1.301	A BB	44433.	50.000 UG/L	1.24
38	237	418	6:58	3	0.807	A BB	6543.	50.000 UG/L	1.24
39	196	438	7:18	3	0.846	A BB	9122.	50.000 UG/L	1.24
40	196	453	7:33	3	0.875	A BB	10730.	50.000 UG/L	1.24
41	162	445	7:25	3	0.859	A BB	34933.	50.000 UG/L	1.24
42	65	475	7:55	3	0.917	A BB	11749.	50.000 UG/L	1.24
43	163	512	8:32	3	0.988	A BV	34399.	50.000 UG/L	1.24
44	152	496	8:16	3	0.958	A BB	50650.	50.000 UG/L	1.24
45	138	532	8:52	3	1.027	A BB	9963.	50.000 UG/L	1.24
46	153	522	8:42	3	1.008	A BB	28843.	50.000 UG/L	1.24
47	184	544	9:04	3	1.050	A BB	4000.	50.000 UG/L	1.24
48	109	601	10:01	3	1.160	A BB	2079.	50.000 UG/L	1.24
49	168	544	9:04	3	1.050	A BB	46150.	50.000 UG/L	1.24
50	165	564	9:24	3	1.089	A BB	10460.	50.000 UG/L	1.24

011909

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:28	1.00	0.537	1.00	50.00	50.00	1.648	1.648	1.00
8	2:43	1.00	0.994	1.00	50.00	50.00	2.167	2.167	1.00
9	10:26	1.00	1.208	1.00	50.00	50.00	0.090	0.090	1.00
10	3:42	1.00	0.750	1.00	50.00	50.00	0.401	0.401	1.00
11	7:23	1.00	0.855	1.00	50.00	50.00	1.245	1.245	1.00
12	15:38	1.00	0.884	1.00	50.00	50.00	1.392	1.392	1.00
13	2:45	1.00	1.006	1.00	50.00	50.00	1.841	1.841	1.00
14	2:33	1.00	0.933	1.00	50.00	50.00	1.619	1.619	1.00
15	2:35	1.00	0.945	1.00	50.00	50.00	1.479	1.479	1.00
16	2:40	1.00	0.976	1.00	50.00	50.00	1.559	1.559	1.00
17	2:46	1.00	1.012	1.00	50.00	50.00	1.613	1.613	1.00
18	3:10	1.00	1.159	1.00	50.00	50.00	0.814	0.814	1.00
19	3:01	1.00	1.104	1.00	50.00	50.00	1.488	1.488	1.00
20	3:38	1.00	1.329	1.00	50.00	50.00	1.559	1.559	1.00
21	3:25	1.00	1.250	1.00	50.00	50.00	2.192	2.192	1.00
22	3:57	1.00	1.445	1.00	50.00	50.00	1.669	1.669	1.00
23	3:39	1.00	1.335	1.00	50.00	50.00	1.106	1.106	1.00
24	3:30	1.00	1.280	1.00	50.00	50.00	0.607	0.607	1.00
25	3:44	1.00	0.757	1.00	50.00	50.00	0.424	0.424	1.00
26	4:14	1.00	0.858	1.00	50.00	50.00	0.815	0.815	1.00
27	4:19	1.00	0.875	1.00	50.00	50.00	0.213	0.213	1.00
28	4:50	1.00	0.980	1.00	50.00	50.00	0.307	0.307	1.00
29	5:27	1.00	1.105	1.00	50.00	50.00	0.224	0.224	1.00
30	4:50	1.00	0.980	1.00	50.00	50.00	0.479	0.479	1.00
31	5:01	1.00	1.017	1.00	50.00	50.00	0.274	0.274	1.00
32	4:55	1.00	0.997	1.00	50.00	50.00	0.295	0.295	1.00
33	4:58	1.00	1.007	1.00	50.00	50.00	1.104	1.104	1.00
34	5:23	1.00	1.091	1.00	50.00	50.00	0.323	0.323	1.00
35	5:29	1.00	1.111	1.00	50.00	50.00	0.111	0.111	1.00
36	6:49	1.00	1.382	1.00	50.00	50.00	0.282	0.282	1.00
37	6:25	1.00	1.301	1.00	50.00	50.00	0.788	0.788	1.00
38	6:58	1.00	0.807	1.00	50.00	50.00	0.217	0.217	1.00
39	7:18	1.00	0.846	1.00	50.00	50.00	0.303	0.303	1.00
40	7:33	1.00	0.875	1.00	50.00	50.00	0.356	0.356	1.00
41	7:25	1.00	0.859	1.00	50.00	50.00	1.159	1.159	1.00
42	7:55	1.00	0.917	1.00	50.00	50.00	0.390	0.390	1.00
43	8:32	1.00	0.988	1.00	50.00	50.00	1.141	1.141	1.00
44	8:16	1.00	0.958	1.00	50.00	50.00	1.680	1.680	1.00
45	8:52	1.00	1.027	1.00	50.00	50.00	0.330	0.330	1.00
46	8:42	1.00	1.008	1.00	50.00	50.00	0.957	0.957	1.00
47	9:04	1.00	1.050	1.00	50.00	50.00	0.133	0.133	1.00
48	10:01	1.00	1.160	1.00	50.00	50.00	0.069	0.069	1.00
49	9:04	1.00	1.050	1.00	50.00	50.00	1.531	1.531	1.00
50	9:24	1.00	1.089	1.00	50.00	50.00	0.347	0.347	1.00

Quantitation Report File: FS0405C02A

Data: FS0405C02A.TI
04/05/93 11:09:00
Sample: SSFD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	516	8:36	3	0.996	A BB	11629.	50.000 UG/L	1.24
52	149	609	10:09	3	1.176	A BB	32973.	50.000 UG/L	1.24
53	204	601	10:01	3	1.160	A BB	15922.	50.000 UG/L	1.24
54	166	588	9:48	3	1.135	A BB	35262.	50.000 UG/L	1.24
55	138	613	10:13	3	1.183	A BB	8999.	50.000 UG/L	1.24
56	198	616	10:16	4	0.870	A BB	5724.	50.000 UG/L	1.24
57	169	622	10:22	4	0.879	A BB	26564.	50.000 UG/L	1.24
58	248	662	11:02	4	0.935	A BB	6911.	50.000 UG/L	1.24
59	284	670	11:10	4	0.946	A BB	6414.	50.000 UG/L	1.24
60	266	706	11:46	4	0.997	A BB	3545.	50.000 UG/L	1.24
61	178	710	11:50	4	1.003	A BV	48508.	50.000 UG/L	1.24

011911

000026

011911

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	716	11:56	4	1.011	A VB	51368.	50.000 UG/L	1.24
63	149	830	13:50	4	1.172	A BB	65198.	50.000 UG/L	1.24
64	202	867	14:27	4	1.225	A BB	48238.	50.000 UG/L	1.24
65	202	893	14:53	5	0.842	A BB	48111.	50.000 UG/L	1.24
66	149	1025	17:05	5	0.966	A BB	24754.	50.000 UG/L	1.24
67	252	1075	17:55	5	1.013	A BB	10218.	50.000 UG/L	1.24
68	228	1059	17:39	5	0.998	A BV	37486.	50.000 UG/L	1.24
69	149	1120	18:40	5	1.056	A BB	36680.	50.000 UG/L	1.24
70	228	1064	17:44	5	1.003	A VB	32085.	50.000 UG/L	1.24
71	149	1200	20:00	6	0.970	A BB	60746.	50.000 UG/L	1.24
72	252	1196	19:56	6	0.967	M XX	35693.	50.000 UG/L	1.24
73	252	1198	19:58	6	0.968	M XX	27443.	50.000 UG/L	1.24
74	252	1229	20:29	6	0.994	A BB	25103.	50.000 UG/L	1.24
75	276	1350	22:30	6	1.091	A BV	17720.	50.000 UG/L	1.24
76	278	1357	22:37	6	1.097	A BB	17567.	50.000 UG/L	1.24
77	276	1372	22:52	6	1.109	A BB	18323.	50.000 UG/L	1.24
78	74	34	0:34	1	0.207	A VB	20963.	50.000 UG/L	1.24
79	184	910	15:10	5	0.858	M XX	9843.	50.000 UG/L	1.24
80	132	154	2:34	1	0.939	A BB	30888.	50.000 UG/L	1.24
81	152	180	3:00	1	1.098	M XX	13938.	50.000 UG/L	1.24
82	167	752	12:32	4	1.062	A BB	49398.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:36	1.00	0.996	1.00	50.00	50.00	0.386	0.386	1.00
52	10:09	1.00	1.176	1.00	50.00	50.00	1.094	1.094	1.00
53	10:01	1.00	1.160	1.00	50.00	50.00	0.528	0.528	1.00
54	9:48	1.00	1.135	1.00	50.00	50.00	1.170	1.170	1.00
55	10:13	1.00	1.183	1.00	50.00	50.00	0.298	0.298	1.00
56	10:16	1.00	0.870	1.00	50.00	50.00	0.144	0.144	1.00
57	10:22	1.00	0.879	1.00	50.00	50.00	0.670	0.670	1.00
58	11:02	1.00	0.935	1.00	50.00	50.00	0.174	0.174	1.00
59	11:10	1.00	0.946	1.00	50.00	50.00	0.162	0.162	1.00
60	11:46	1.00	0.997	1.00	50.00	50.00	0.089	0.089	1.00
61	11:50	1.00	1.003	1.00	50.00	50.00	1.223	1.223	1.00
62	11:56	1.00	1.011	1.00	50.00	50.00	1.295	1.295	1.00
63	13:50	1.00	1.172	1.00	50.00	50.00	1.644	1.644	1.00
64	14:27	1.00	1.225	1.00	50.00	50.00	1.216	1.216	1.00
65	14:53	1.00	0.842	1.00	50.00	50.00	1.692	1.692	1.00
66	17:05	1.00	0.966	1.00	50.00	50.00	0.870	0.870	1.00
67	17:55	1.00	1.013	1.00	50.00	50.00	0.359	0.359	1.00
68	17:39	1.00	0.998	1.00	50.00	50.00	1.318	1.318	1.00
69	18:40	1.00	1.056	1.00	50.00	50.00	1.290	1.290	1.00
70	17:44	1.00	1.003	1.00	50.00	50.00	1.128	1.128	1.00
71	20:00	1.00	0.970	1.00	50.00	50.00	2.771	2.771	1.00
72	19:56	1.00	0.967	1.00	50.00	50.00	1.628	1.628	1.00
73	19:58	1.00	0.968	1.00	50.00	50.00	1.252	1.252	1.00
74	20:29	1.00	0.994	1.00	50.00	50.00	1.145	1.145	1.00
75	22:30	1.00	1.091	1.00	50.00	50.00	0.808	0.808	1.00
76	22:37	1.00	1.097	1.00	50.00	50.00	0.801	0.801	1.00
77	22:52	1.00	1.109	1.00	50.00	50.00	0.836	0.836	1.00
78	0:34	1.00	0.207	1.00	50.00	50.00	1.331	1.331	1.00
79	15:10	1.00	0.858	1.00	50.00	50.00	0.346	0.346	1.00
80	2:34	1.00	0.939	1.00	50.00	50.00	1.961	1.961	1.00
81	3:00	1.00	1.098	1.00	50.00	50.00	0.885	0.885	1.00
82	12:32	1.00	1.062	1.00	50.00	50.00	1.246	1.246	1.00

011912

011913

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 06-APR-1993
SL Method File Name. kbp0318-1a.met
CC Method File Name. kbc0406w-1a.met
Instrument..... Hewlett-Packard 5890
Operator..... BEDO CASTRO

Compound	MEAN RCF(1)	RSD RCF(0)	% D
T.B.M.E.	0.32385	0.37437	+15.599
Benzene	1.03506	1.04898	+1.345
Fluorobenzene	14248.600	9907.640	-30.466
TFT	0.51982	0.48294	-7.095
Toluene	1.07745	0.96535	-10.405
Chlorobenzene	0.79249	0.71871	-9.310
Ethylbenzene	0.61589	0.53485	-13.158
M,P-xylene	0.79692	0.72684	-8.794
O-xylene	0.69472	0.62937	-9.407
Bromobenzene	25774.469	17449.820	-32.298
1,3-DCBZ	0.65650	0.68485	+4.319
1,4-DCBZ	0.64067	0.59924	-6.467
1,2-DCBZ	0.62775	0.66736	+6.309

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

000028

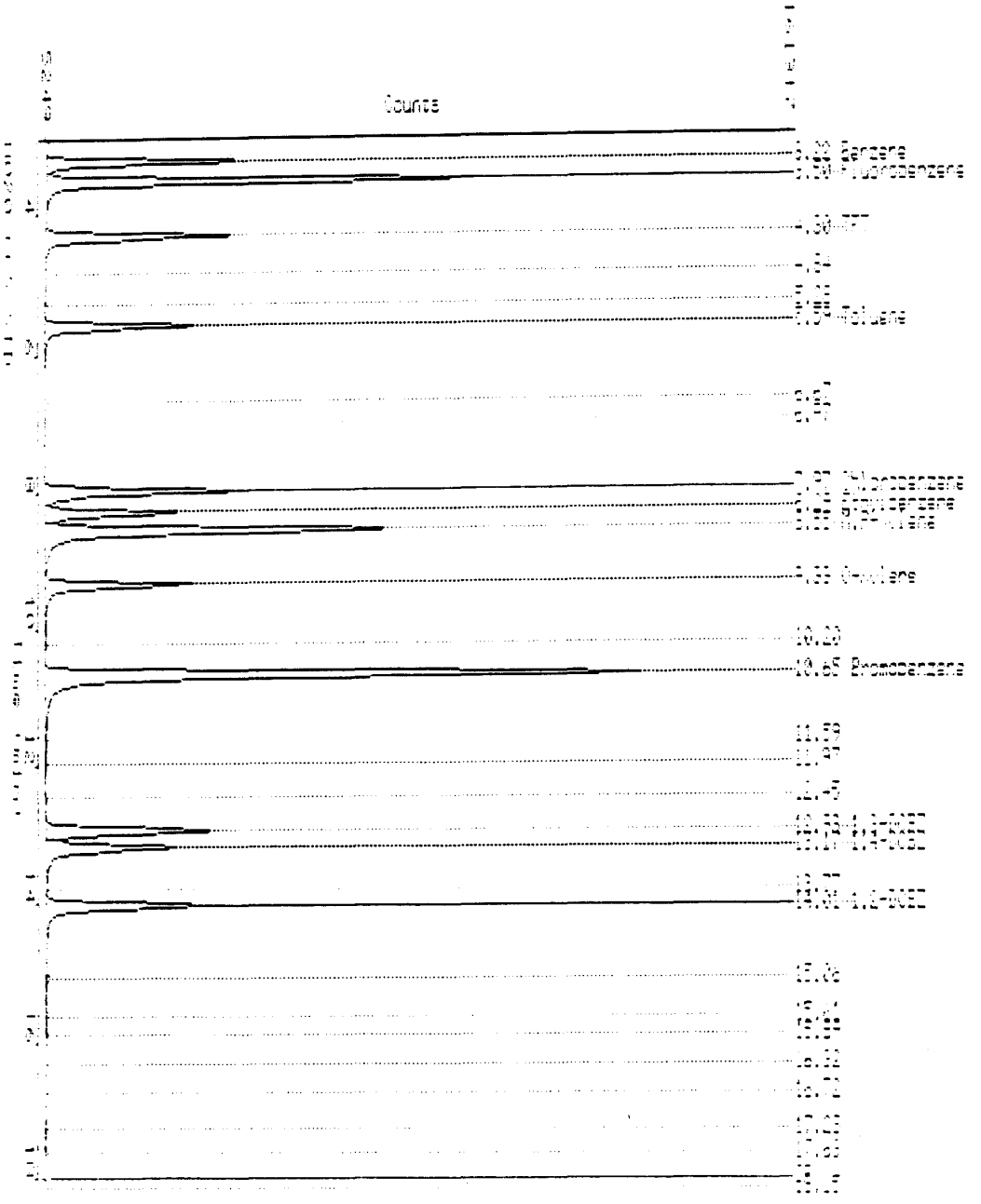
Data File: [illegible]

Report: 150151

Acquired: [illegible]

Time range: 2.00-20.00

Vert. scale/offset: [illegible]



011914

000029

011915

Chester LabNet - HOUSTON

Date..... 7-APR-1993 13:56
Raw file..... KAB0406-028
Method file..... KBC0406W-1A
Last method update.. 7-APR-1993 13:56
Device..... Channel 15A
Acq. date..... 7-APR-1993 06:55
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... 8020 CCS STD 20UG/L

Report #... 250263
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID .... 8020 CCS STD
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 CCS STD

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.220	1.05E+00	20.000	207858		1		
Fluorobenzene	3.505	1.00E+00	50.000	495382		S1		
TFT	4.297	4.83E-01	50.000	239239	R	1		
Toluene	5.588	9.65E-01	20.000	191286		1		
Chlorobenzene	7.973	7.19E-01	20.000	250827		2		
Ethylbenzene	8.291	5.35E-01	20.000	186661		2		
M,P-Xylene	8.552	7.27E-01	40.000	507330		2		
O-xylene	9.333	6.29E-01	20.000	219649		2		
Bromobenzene	10.652	1.00E+00	50.000	872491		S2		
1,3-DCBZ	12.927	6.85E-01	20.000	239010		2		
1,4-DCBZ	13.169	5.99E-01	20.000	209132		2		
1,2-DCBZ	14.005	6.67E-01	20.000	232905		2		

011916

THE FOLLOWING DATA IS

FOR QA/QC

000031

011917

INST ID: 4010

CHESTER DC # --- - 8
SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93

DATAFILE: 9B04001C01
DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

CHESTER DC # --- - 8

INST ID: 4010 SAMPLE NUMBER: SBLK

011918

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 93--- QC REPORT NO.: 03/30/93
SAMPLE MATRIX: WATER CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY:..... DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

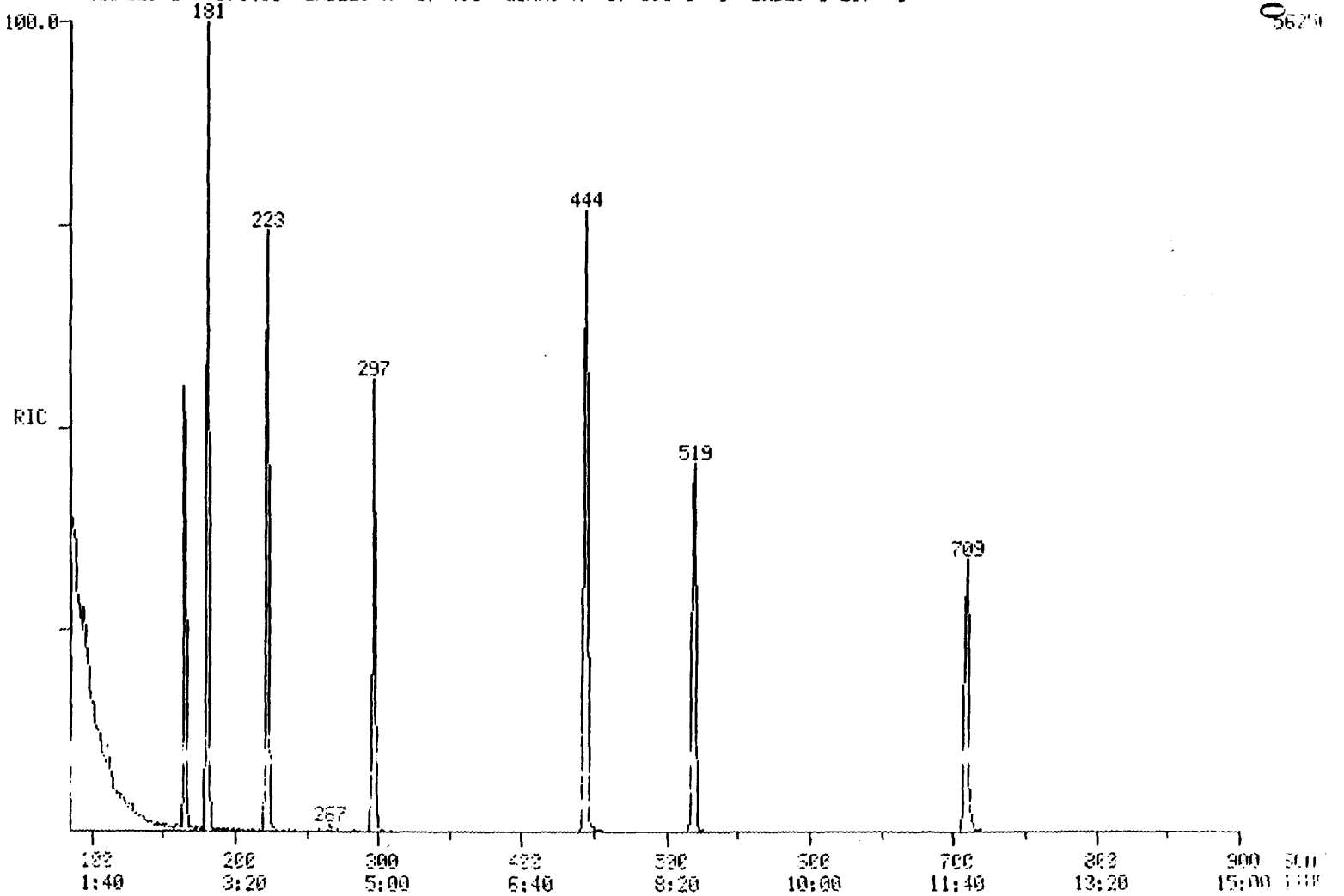
CONCENTRATION: LOW DATAFILE: 9B04001C01
DATE EXTRACTED: 4/1/93
DATE ANALYZED: 04/05/93 DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/05/93 16:29:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04001C01 #1 SCANS 85 TO 900
CALI: 9B04001C01 #3



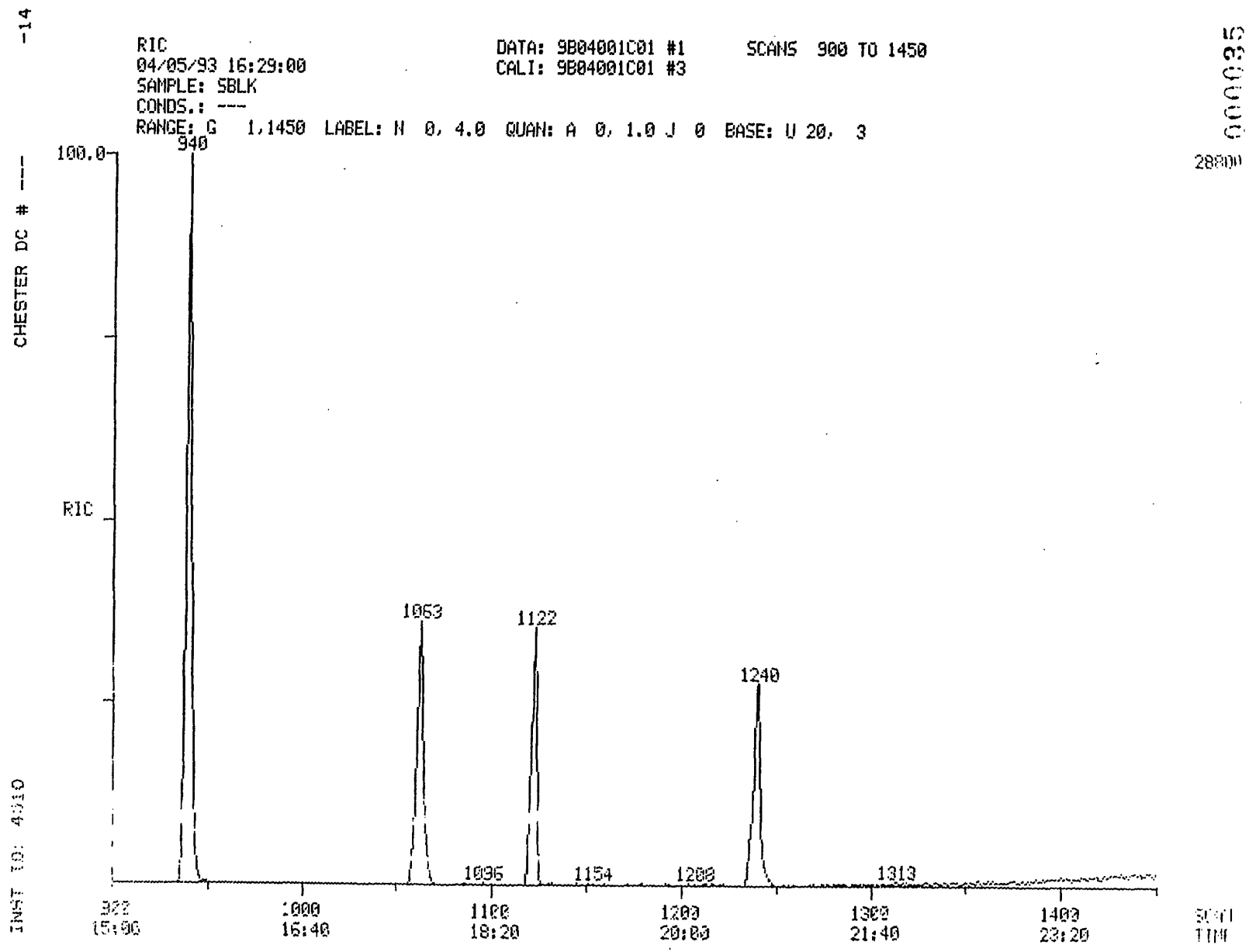
CHESTER DC # ---

-14

000034

011919

011919



011920

011920

CHESTER DC # --- -14

011921

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SBLK		
FILENAME	9B04001C01	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	04/05/93 16:29:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
165	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	1164
297	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	3637
519	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	2058
709	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	3196
1063	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	2028
1209	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	1603
223	CS20	NITROBENZENE-D5 ** SU3 **	82	73 %	0.751	2666
444	CS25	2-FLUOROBIPHENYL ** SU4 **	172	74 %	0.855	4715
940	CS30	TERPHENYL-D14 ** SU6 **	244	67 %	0.884	4698

000036

011922

Chester LabNet - HOUSTON

Reported on : 8-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.1
Sample ID	: KAB0406-031	Date Received	: 31-MAR-1993
Sample Name	: H93-04.1-001	Matrix	: WATER
Project No.	: 18804	Date Collected	: 31-MAR-1993
Checked by	: MJM	Client ID	: LAB BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 7-APR-1993 14:13 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

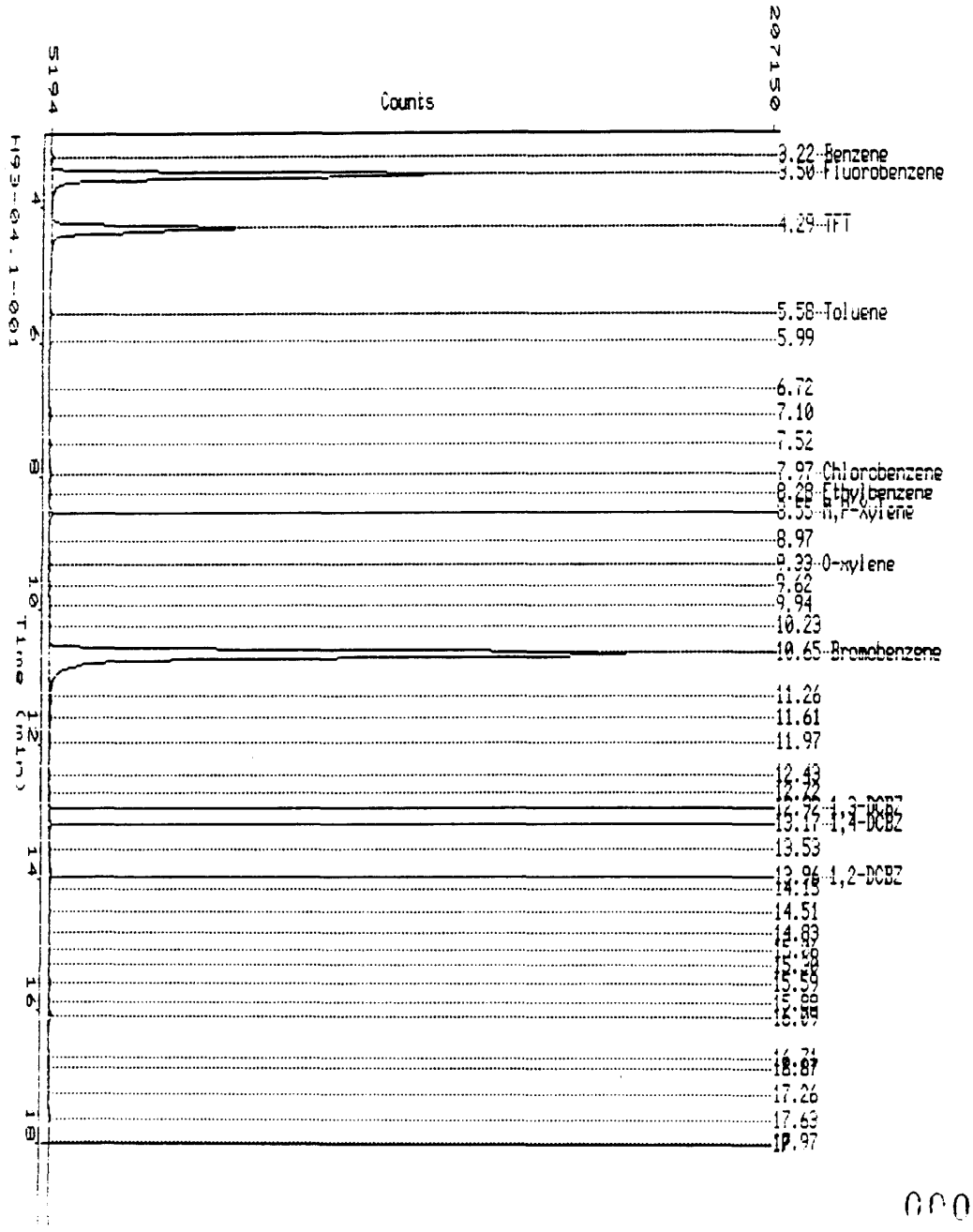
U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

000037

011923

Data file: NAI$DIR:[NAI.BTEX]KAB0406-031
Report: 250758
Acquired: 7-APR-1993 14:13:55
Time range: 2.90-20.00
Vert. scale/offset: 0.8/0

011923



LAB BLANK

000038

Chester LabNet - HOUSTON

Date..... 8-APR-1993 15:50
Raw file..... KAB0406-031
Method file..... KBC0406W-1A
Last method update.. 7-APR-1993 16:23
Device..... Channel 15A
Acq. date..... 7-APR-1993 14:13
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... LAB BLANK

Report #... 250758
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID H93-04.1-001
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.218	0.10	0.240	3104		1	BB	
Fluorobenzene	3.504	0.08		615921		S1	BV	
TFT	4.295	0.15	54.801	326012	R	1	VB	
Toluene	5.583	0.30	0.288	3429		1	BB	
	7.100			3858			VB	
Chlorobenzene	7.970	0.18	0.230	3781		2	BV	
Ethylbenzene	8.280	0.66	0.224	2737		2	VV	
M,P-Xylene	8.548	0.25	0.457	7596		2	VB	
O-xylene	9.327	0.39	0.349	5018		2	VV	
	9.941			3217			BV	
	10.230			2995			VV	
Bromobenzene	10.648	0.24		1143179		S2	VE	
	11.260			12761			EV	
	11.610			6266			EV	
	11.969			3935			EB	
1,3-DCBZ	12.916	0.68	0.203	3180		2	VV	
1,4-DCBZ	13.167	0.13	0.459	6288		2	VV	
1,2-DCBZ	13.958	2.85	0.440	6720		2	BV	
	15.061			2963			BE	
	15.588			4250			BV	
	16.090			5343			VB	
	16.706			2366			BV	
	16.869			3287			VV	
	17.262			2551			VB	
	17.635			5489			BE	
Total:				2201770				

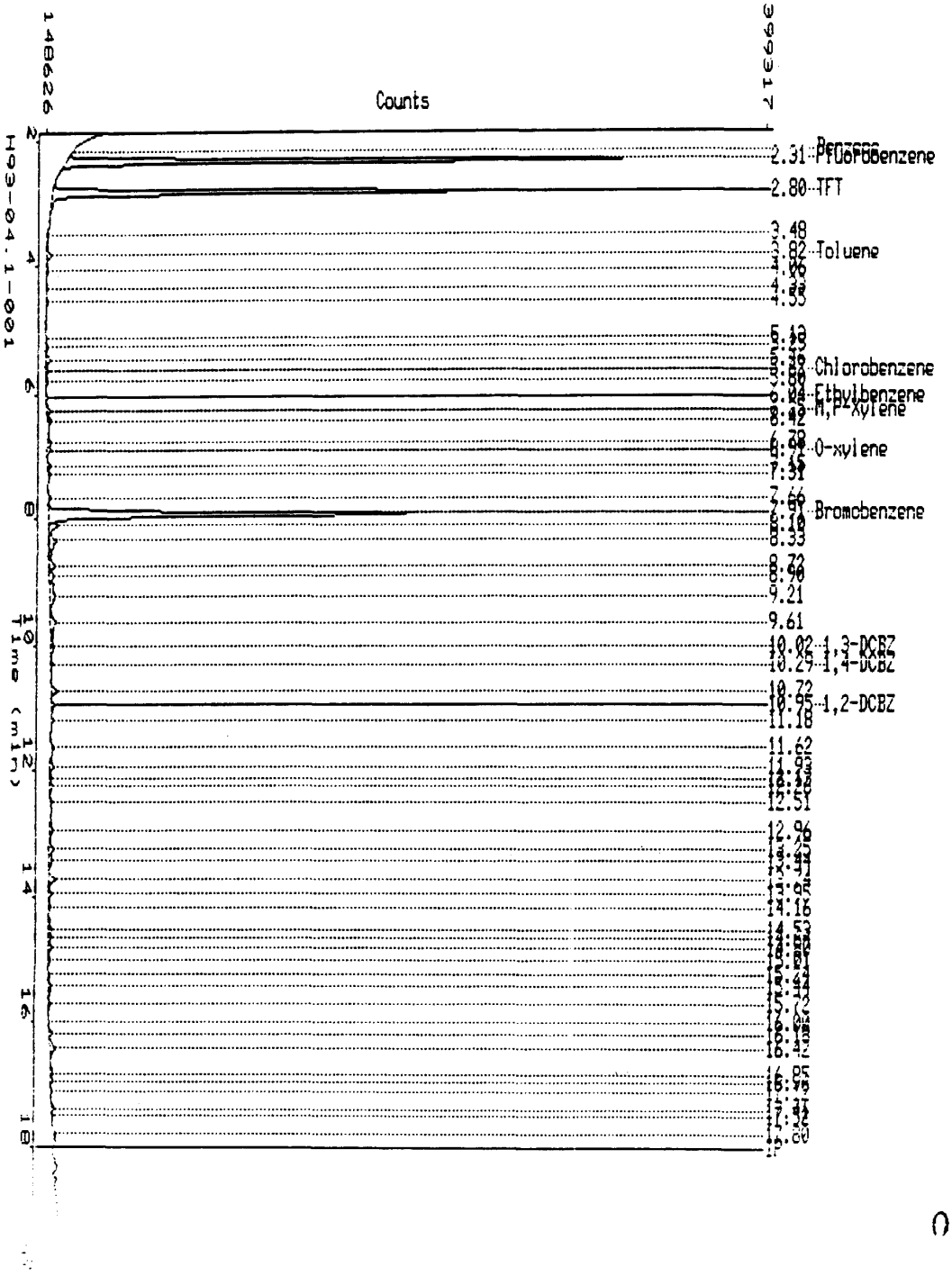
Data file: NAI$DIR:[NAI.BTEX]KBB0406-031

Report: 250761

Acquired: 7-APR-1993 14:13:56

Time range: 1.88-20.00

Vert. scale/offset: 0.8/0



011925

LAB BLANK

000040

011925

Chester LabNet - HOUSTON

Date.....	8-APR-1993 15:56	Report #...	250761
Raw file.....	KBB0406-031	Column ID..	DB5
Method file.....	KBC0406W-1B	Method	SW846 8020
Last method update..	7-APR-1993 16:02	Area rej...	4000
Device.....	Channel 14A	Process #..	4
Acq. date.....	7-APR-1993 14:13	Lab ID	H93-04.1-001
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	LAB BLANK		

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Fluorobenzene	2.311	0.12		770567		S1	BB	
TFT	2.804	0.19	49.579	625573	R	1	BB	
Toluene	3.817	0.61	0.647	9528		1	BV	
	4.060			5693			VB	
	4.548			5130			VB	
	5.251			4816			VV	
	5.456			13448			VV	
Chlorobenzene	5.617	0.94	0.442	5891		2	VV	
	5.797			5657			VB	
Ethylbenzene	6.040	0.75	0.245	4025		2	BB	
M,P-Xylene	6.255	0.92	0.384	7048		2	BB	
	6.420			6415			BB	
	6.782			7012			BV	
O-xylene	6.909	-0.56	0.298	5669		2	VB	
	7.150			7004			BV	
	7.665			8227			BV	
Bromobenzene	7.913	0.51		595992		S2	VE	
	8.096			23008			EV	
	8.328			35361			EV	
	8.721			17227			VV	
	8.896			12810			VV	
	9.208			34298			VV	
	9.614			30503			VV	
1,3-DCBZ	10.017	5.08	1.065	14436		2	VV	
	10.715			15730			BV	
1,2-DCBZ	10.952	-0.08	0.864	10853		2	VV	
	11.184			4658			VB	
	11.622			4866			BB	
	11.929			8164			BB	
	12.262			5672			VB	
	12.957			11868			BV	
	13.251			10944			VV	
	13.442			11406			VB	
	13.736			17247			BV	
	13.952			7105			VV	
	14.162			5273			VB	
	14.533			11320			BV	
	14.845			5122			[illegible]	

000041

14.804	7775	VB
15.008	4712	BB
15.243	4263	BV
15.437	12250	VV
15.721	7729	VB
16.183	7097	BV
16.424	20276	VB
16.846	7000	BV
16.956	5613	VB
17.406	6456	BV
17.803	7394	BB

Total: 2506400

011927

000042

011928

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/05/93	Sens Time:	10:20:00
Lab ID:	FS0405C01	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Juanita D Drummond

M/E	Ion Abundance Criteria	Spec # 222	
51	30 to 60% of mass 198	40.16	
68	less than 2% of mass 69	0.45	(1.23) 1
69	mass 69 relative abundance	36.86	
70	less than 2% of mass 69	0.25	(0.68) 1
127	40 TO 60% of mass 198	52.16	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.65	
275	10 TO 30% of mass 198	19.88	
365	greater than 1% of mass 198	1.19	
441	less than mass 443	5.06	
442	greater than 40% of mass 198	50.00	
443	17 TO 23% of mass 442	9.31	(18.63) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

000043

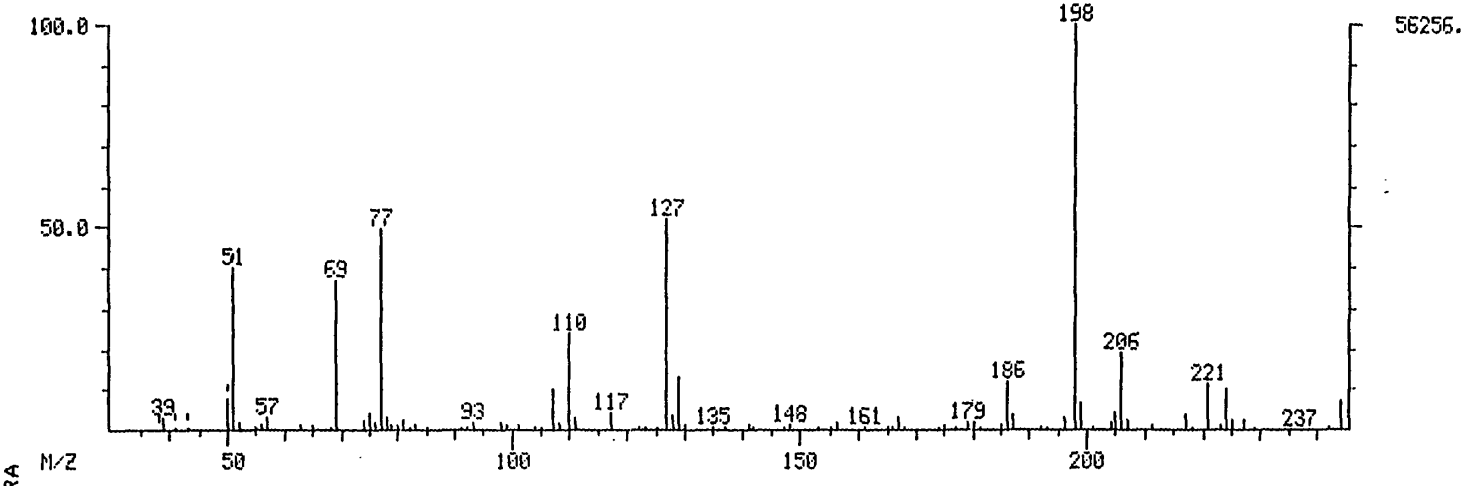
-15

CHESTER DC # ---

MASS SPECTRUM
04/05/93 10:20:00 + 3:43
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#222 TO #224 SUMMED - #200

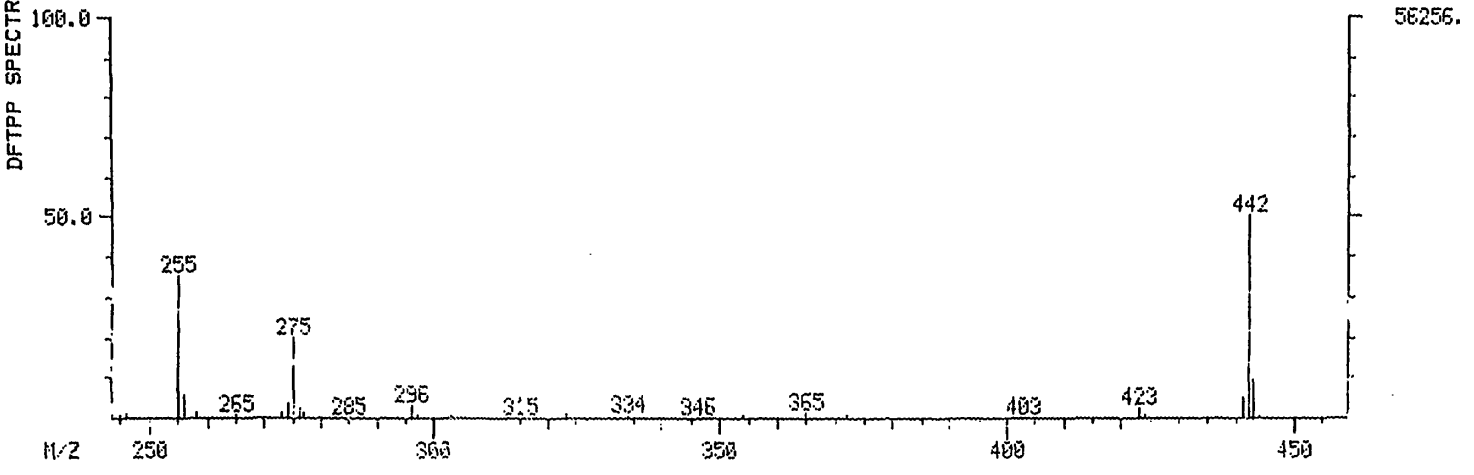
DATA: FS0405C01 #223
CALI: FS0405C01 #3

BASE M/Z: 198
RIC: 368128.



DFTPP SPECTRA

INST ID: 4510



011929

INST ID: 4510 CHESTER DC # --- -15

011930

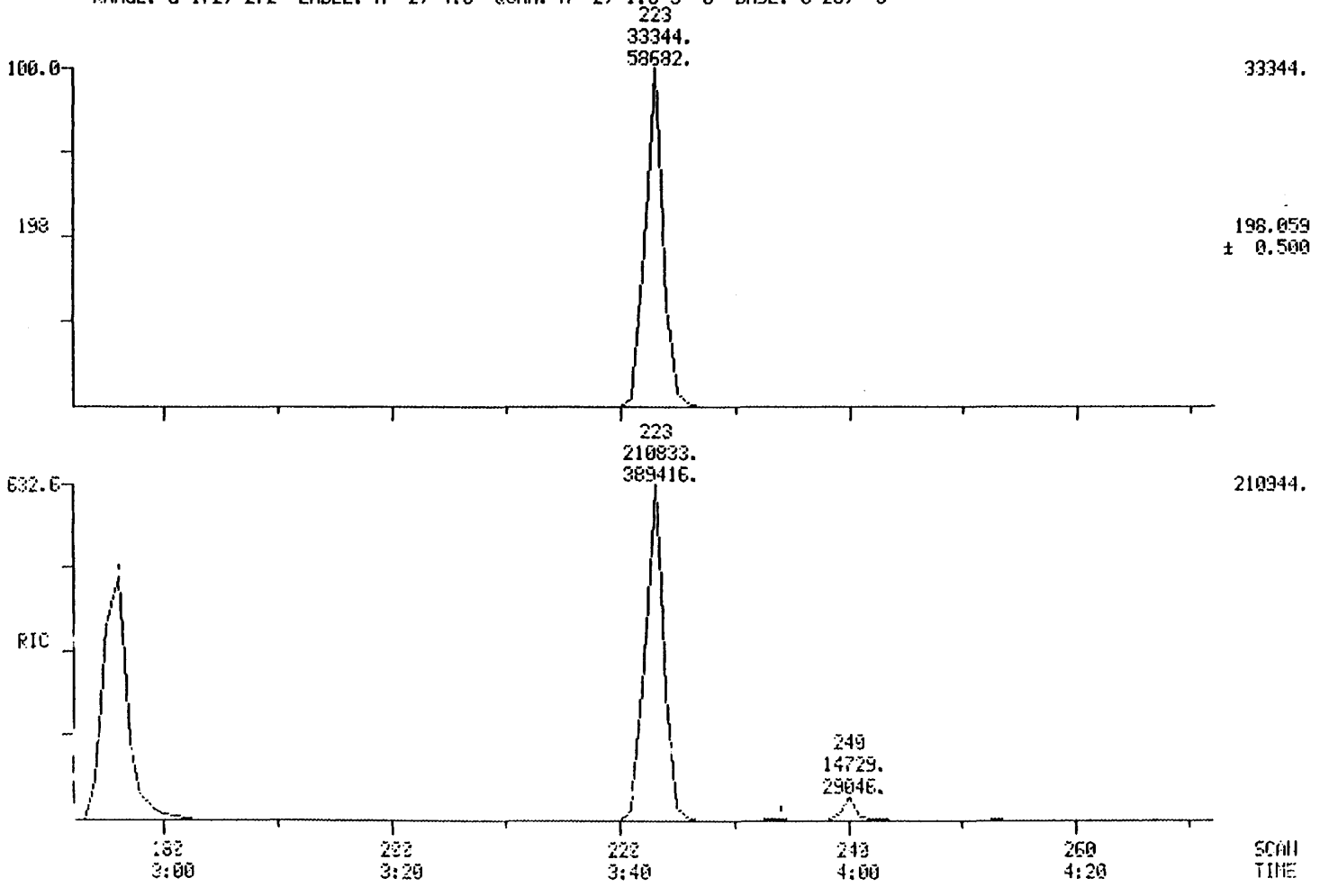
DFTPP MASS LISTING

Mass List Data: FS0405C01 # 223 Base m/z: 198
04/05/93 10:20:00 + 3:43 Cali: FS0405C01 # 3 RIC: 368128.
Sample: DFTPP
Conds.: ---
#222 to #224 summed - #200

38		0.00	0.	Minima	Min Inten:	226.
444				Maxima	# 0	
Mass		% RA	Inten.	Mass	% RA	Inten.
39?		3.11	1750.	174	0.45	254.
50	S	7.69	4328.	175	1.31	739.
51	S	40.16	22592.	177	0.43	244.
52		1.80	1014.	179	1.98	1116.
55		0.56	316.	180	1.89	1064.
56		1.04	583.	181	0.84	475.
57		2.71	1522.	185	0.90	509.
63		0.96	540.	186	12.04	6776.
65		0.90	506.	187	3.54	1990.
68		0.45	253.	192	0.51	287.
69		36.86	20736.	193	0.68	384.
74		2.31	1298.	196	3.08	1730.
75		4.29	2412.	198	100.00	56256.
76		1.91	1072.	199	6.65	3740.
77		49.72	27968.	201	0.47	267.
78		3.03	1704.	204	1.87	1050.
79		1.37	769.	205	4.44	2500.
80		1.21	679.	206	19.08	10736.
81		2.14	1204.	207	2.14	1206.
82		0.67	377.	211	1.07	603.
83		1.34	755.	217	3.78	2124.
85		0.53	299.	218	0.44	247.
93		1.99	1122.	221	11.32	6368.
98		1.50	845.	223	0.98	553.
99		1.44	809.	224	10.08	5672.
101		1.05	592.	225	2.30	1294.
104		0.48	269.	227	2.44	1372.
105		0.48	271.	229	0.73	410.
107		10.13	5696.	244	6.91	3888.
108		1.70	955.	245	0.87	490.
110		23.95	13472.	246	0.95	534.
111		2.97	1668.	255	35.61	20032.
117		4.20	2364.	256	5.13	2884.
123		0.58	324.	258	1.23	690.
125		0.41	228.	273	0.98	554.
127		52.16	29344.	274	3.46	1946.
128		3.45	1940.	275	19.88	11184.
129		13.08	7360.	276	2.59	1458.
130		0.98	549.	277	1.05	593.
135		0.89	498.	296	2.87	1612.
137		0.49	277.	323	1.10	617.
141		1.16	653.	334	0.61	341.
142		0.43	244.	365	1.19	670.
147		0.62	348.	372	0.49	278.
148		1.04	586.	423	2.36	1326.
155		0.70	392.	441	5.06	2848.
156		1.65	930.	442	50.00	28128.
161		0.73	409.	443	9.31	5240.
167		3.27	1838.	444	0.76	430.
168		0.89	500.			

011930

RIC+MASS CHROMATOGRAM DATA: FS0405C01 #222 SCANS 172 TO 272
04/05/93 10:20:00 CALI: FS0405C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 172, 272 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



011931

TABLE 2
PROPOSED SAMPLE NUMBERS AND ANALYSIS FOR PRE-TREATMENT WATER TEST

SAMPLE TYPE	MEDIUM	PROPOSED NUMBER OF SAMPLES	ANALYTICAL TECHNIQUE	ANALYSIS/ EPA METHOD*	DQO LEVEL	FIELD EQUIPMENT WASH BLANKS	TRIP BLANKS	FIELD DUPLICATE
Soil washing wastewater prior to discharge to groundwater treatment plant	Water	1 (3)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr, Cu, Zn, Pb (6010)	III	1	1	1
Recycled Wash Water	Water	5 (4)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr	III	1	1	1

* EPA Method and SW 846 Test Methods for Evaluating Solid Waste, 3rd ed., 1987.

Notes:

(1) Field equipment wash blanks and field duplicates do not apply to the following physical/conventional parameters (pH, COD, TDS).

(2) Trip blank analyzed for BTEX only.

(3) Assumes one discharge to the groundwater treatment plant during the soil washing demonstration test.

(4) Daily composite of grab samples collected every 2 hours.

011933

KEYSTONE LAB - HOUSTON

PRIORITY

DAMES_MOOR
Dames and Moore

Work Order : H93-04.1
Due Date : 3-APR-1993

000048

011934

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Park Drive

Suite 320
Charlotte, N.C. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID : S. CAVALCADE
P.O. NUMBER : 18804

WORK ORDER : H93-04.125
DATE RECEIVED : 16-APR-1993

SAMPLE & ANALYSIS SUMMARY

011935

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.125-001	LAB BLANK	14-APR-1993	LIQUID
H93-04.125-002	SC-RW-G	14-APR-1993	LIQUID
H93-04.125-003	TRIP BLANK 1	14-APR-1993	LIQUID
H93-04.125-004	BLANK SPIKE	14-APR-1993	LIQUID

Analysis ID	Parameter Description
AS_ICP	Arsenic(ICP)
BTEX_8020	BTEX by Method 8020
COD	Chemical Oxygen Demand
CR	Chromium
EXT_8270	Extraction by EPA 8270
PH	Hydrogen ion activity (EPA 150.1)
SV_TCL	Semivolatiles (Target Compound List)
TDS	Total Dissolved Solids(EPA 160.1)
TOC	Total Organic Carbon
TSS	Total Suspended Solids

011936

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-04.125

I. RECEIPT

A. DATE: APR. 16, 1993

B. NO. OF SAMPLES: (1) SAMPLE AND (1) TRIP BLANK

C. CLIENT ID NUMBERS: SC-RW-E.

D. SAMPLE TYPE: Recycled Wash Water

E. ANALYSIS REQUESTED: pH; TOC; COD; TSS; TDS; cPAH(8270); BTEX(8020); Metals- As(7060), Cr(6010).

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: Blank spike QC attached to this Work Order. Summary inclusive.

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample (SV ONLY) in each Work Order. First Organics Analysis Data Sheet contains cPAH followed with Full PAH LISTING. Quanitation Data sheet will give complete PAH amounts.

I. COMMENTS:
Semi-volatile (cPAH) analyses completed in timely manner without GC/MS instrument downtime.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 27, 1993

Date

000001

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of ____

Project Number 18804

Project Location South Cavalcade

Laboratory Chester

Sampler(s) Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	CPAH (8270)	Metals As (7060) Cr	TDS (160.1)	TSS (160.2)	PH (150.1)	TOC (415.1)	COD (410.1)	BTEX (8020)			TOTAL
SC-RW-G	4/4	X	X	X	X	X	X	X	X			

Keystone Lab-Houston
Iced YES
pH
Temperature 4°C
Date 4/16/93
Initials [illegible]

Relinquished by: [illegible]	Organization: Dames & Moore	Date: 4/15/93	Time 5:36	Seal Intact?
Received by: K Barrientos	Organization: Chester	Date: 4/15/93	Time 5:36	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by: Heather J Wamowi	Organization: CHESTER ENVIRONMENTAL	Date: 4/16/93	Time 9:00 Am	Yes No N/A

Special Instructions / Remarks:

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____

011937

011937

Keystone Lab - Houston
Water Surrogate Recovery Summary
Keystone Work Order # H93-04.125

011938

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	72	72	103	NA	NA	NA	NA	NA
SC-RW-G	DL	DL	DL	NA	NA	NA	NA	NA
BLANK SPIKE	88	85	86	NA	NA	NA	NA	NA

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	35-114	S2 (FBP) = 2-Fluorobiphenyl	43-116
S3 (TPH) = Terphenyl-d14	33-141	S4 (PHL) = Phenol-d5	10-110
S5 (2FP) = 2-Fluorophenol	21-110	S6 (TBP) = 2,4,6-Tribromophenol	10-123
S7 (2CP) = 2-Chlorophenol-d4	33-110**	S8 (DCB) = 1,2-Dichlorobenzene-d4	16-110**

0 out of 6 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = Diluted Out

C H E S T E R L A B N E T - H O U S T O N

WATER SURROGATE RECOVERY SUMMARY

Client Name: Dames & Moore
Chester LabNet Work Order # H93-04.125

CLIENT SAMPLE NUMBER	TFT % RECOVERY
1. LAB BLANK	97
2. SC-RW-G	80
3. TRIP BLANK	110
4. BLANK SPIKE	92

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

TFT = TRIFLUOROTOLUENE

ADVISORY QC LIMITS (65 - 120%)

BLANK SPIKE RECOVERY SUMMARY

Site : South Cavalcade

Keystone WO: H93-04.125
Sample I.D.: Blank Spike

BN Compound	Amount Spiked(µg/L)	Amount Recov.	Percent Recovery	QC Range %
1,2,4-Trichlorobenzene	50	43	86	39 - 98
Acenaphthene	50	50	100	46 - 118
2,4-Dinitrotoluene	50	36	72	24 - 96
Pyrene	50	59	118	26 - 127
N-Nitroso-di-n-propylamine	50	45	90	41 - 116
1,4-Dichlorobenzene	50	44	88	36 - 97
BN Compound				
Benzene	20	24	120	80 - 123
Toluene	20	23	120	69 - 127
Ethylbenzene	20	25	130 *	72 - 124
Total Xylenes	60	75	130	70 - 130

Recovery: BTEX's: 0 out of 1 outside QC limits.
BN's: 0 out of 6 outside QC limits.

Summary of Analytical Results

Date received: 16-APR-1993 Customer: Dames and Moore Job name: H93-04.125

		Samples			
Chester LabNet ID		125-001	125-002	125-003	125-004
Sampling Point		QA QC	X	X	QA QC
Date Sampled		14-APR-1993	14-APR-1993	14-APR-1993	14-APR-1993
Customer ID		LAB BLANK	SC-RW-G	TRIP BLANK 1	BLANK SPIKE
Parameters	Units				
METALS					
Arsenic	ug/L	<37.0	72.0	NR	105 *
Chromium	ug/L	<4.0	36.0	NR	103 *
BTEX 8020					
Benzene	µg/L	<2.0	<2000	<2.0	120 *
Toluene	µg/L	<3.0	<3000	<3.0	120 *
Ethyl Benzene	µg/L	<3.0	<3000	<3.0	130 *
Total Xylenes	µg/L	<3.0	<3000	<3.0	130 *
CONVENTIONAL CHEMISTRIES					
Chemical Oxygen Demand	mg/L	<20.0	6000	NR	100 *
pH	pH units	7.03	7.43	NR	NR
Total Dissolved Solids	mg/L	<10.0	1940	NR	NR
Total Organic Carbon	mg/L	<1.0	723	NR	102 *
Total Suspended Solids	mg/L	<2.0	400	NR	NR

NR - NOT REQUIRED

011942

CHESTER LABNET DC # --- 5

INST ID: 4330 SAMPLE NUMBER: SC-RW-G

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930412502
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: --
QC REPORT NO.: 04/17/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/16/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/16/93
DATE ANALYZED: 04/19/93

DATAFILE: 5U04125C02
DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND (MICROGRAMS / LITER)
C730	BENZO(A)ANTHRACENE	100	160
C740	CHRYSENE	100	110
C765	BENZO(B)FLUORANTHENE	100	59 J
C770	BENZO(K)FLUORANTHENE	100	57 J
C775	BENZO(A)PYRENE	100	52 J
C780	INDENO(1,2,3-CD)PYRENE	100	17 J
C785	DIBENZO(A,H)ANTHRACENE	100	4 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

45a
ppb

~~000006~~

000007

011942

INST ID: 4530 SAMPLE NUMBER: SC-RW-G

011943

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930412502
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: --
QC REPORT NO.: 04/17/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/16/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/16/93
DATE ANALYZED: 04/19/93

DATAFILE: 5U04125C02
DILUTION FACTOR: 1

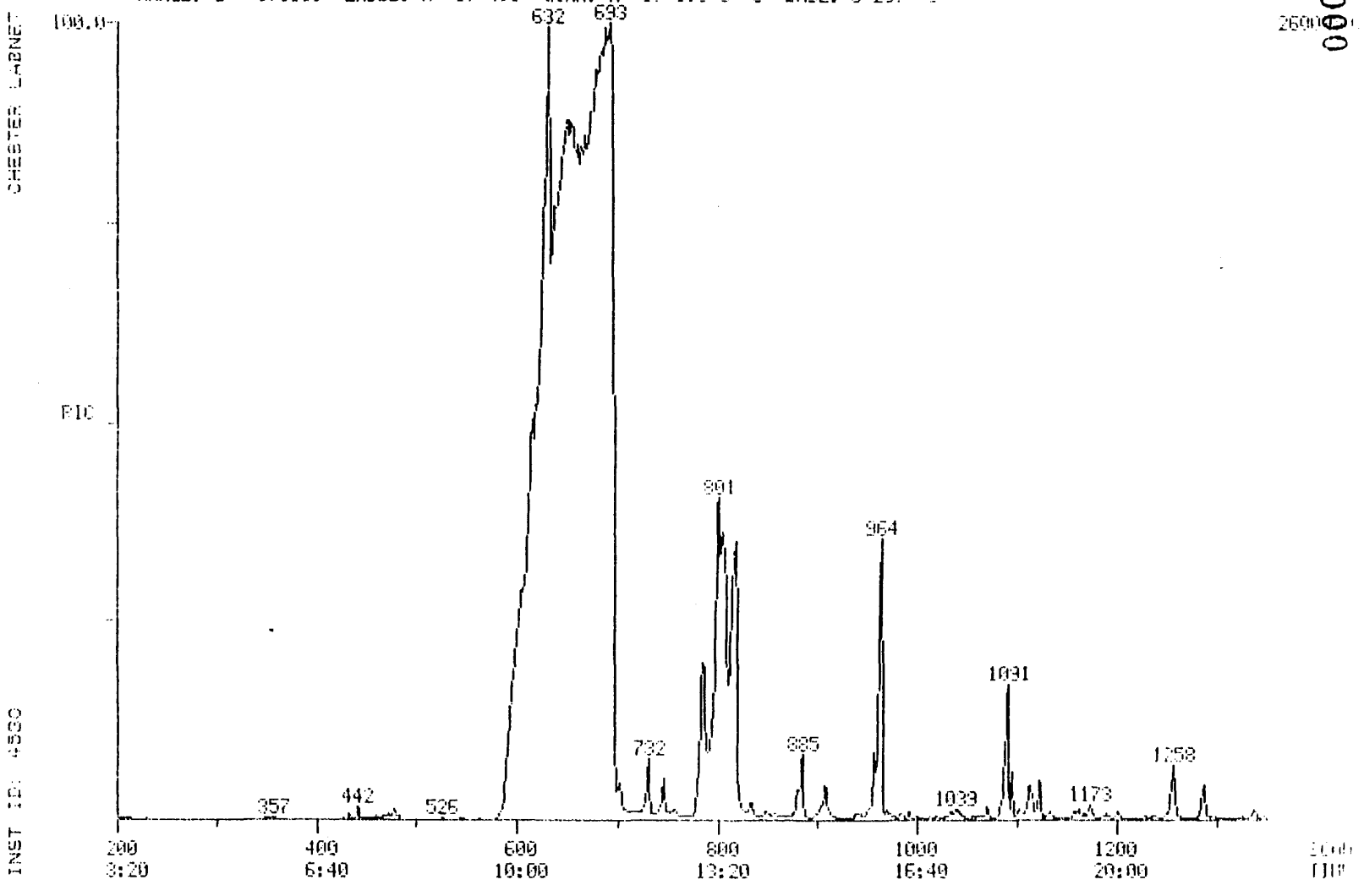
	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND (MICROGRAMS / LITER)
C450	NAPHTHALENE	100	2600
C540	ACENAPHTHYLENE	100	46 J
C550	ACENAPHTHENE	100	1400
C590	FLUORENE	100	1200
C640	PHENANTHRENE	100	2500
C645	ANTHRACENE	100	520
C655	FLUORANTHENE	100	1100
C715	PYRENE	100	720
C730	BENZO(A)ANTHRACENE	100	160
C740	CHRYSENE	100	110
C765	BENZO(B)FLUORANTHENE	100	59 J
C770	BENZO(K)FLUORANTHENE	100	57 J
C775	BENZO(A)PYRENE	100	52 J
C780	INDENO(1,2,3-CD)PYRENE	100	17 J
C785	DIBENZO(A,H)ANTHRACENE	100	4 J
C790	BENZO(GHI)PERYLENE	100	19 J

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

1056A
ppb

RIC
04/19/93 20:39:00
SAMPLE: SC-RW-G
CONDS.: ---
RANGE: G 1,1880 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5U04125C02 #1 SCANS 200 TO 1350
CALI: 5U04125C02 #3



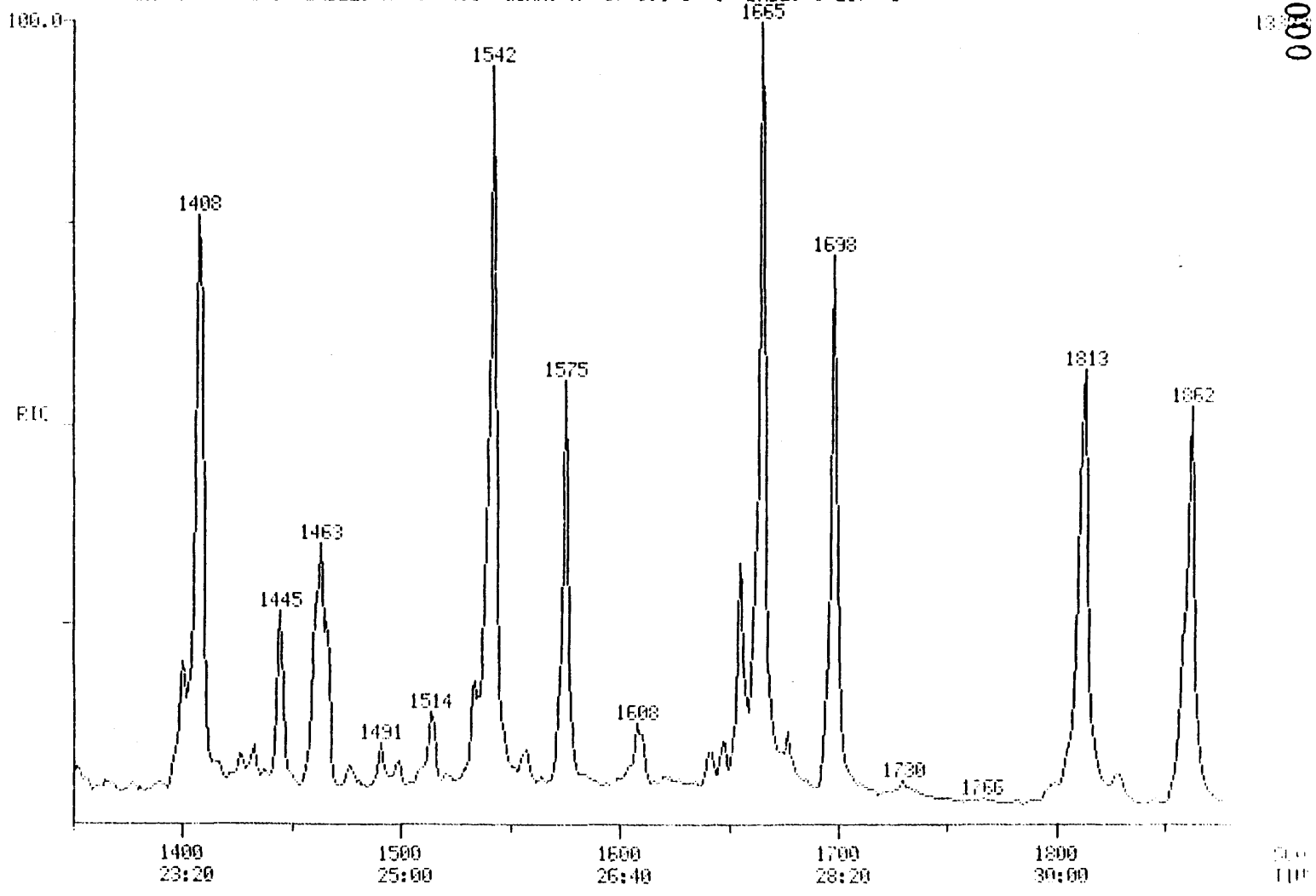
000009

011944

011944

RIC
04/19/93 20:39:00
SAMPLE: SC-RW-G
CONDS.: ---
RANGE: G 1.1880 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 5U04125C02 #1 SCANS 1350 TO 1880
CALI: 5U04125C02 #3



CHESTER LABNET SO # ---14

INST ID: 4530

000010

011945

011945

CHESTER LABNET SC = ---.4

011946

SEMIVOLATILE WATER REPORT

SAMPLE ID. SC-RW-G

FILENAME 5U04125C02 INST ID. 4530

CLIENT DAMES_MO ANALYST SC

DATE INJECTED 04/19/93 20:39:00 VERIFIED BY

CALIB STD DATE 04/17/93 CORR. FACTOR 10.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
442	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	200 UG/L	1.000	1367
628	CI40	NAPHTHALENE-D8 ** IS2 **	136	200 UG/L	1.000	9078
880	CI50	ACENAPHTHENE-D10 ** IS3 **	164	200 UG/L	1.000	2614
1086	CI60	PHENANTHRENE-D10 ** IS4 **	188	200 UG/L	1.000	4192
1462	CI70	CHRYSENE-D12 ** IS5 **	240	200 UG/L	1.000	3800
1655	CI75	PERYLENE-D12 ** IS6 **	264	200 UG/L	1.000	3964
632	C450	NAPHTHALENE	128	2613 UG/L	1.006	108480
857	C540	ACENAPHTHYLENE	152	46 UG/L	0.974	1047
885	C550	ACENAPHTHENE	153	1407 UG/L	1.006	18140
959	C590	FLUORENE	166	1176 UG/L	1.090	17718
1091	C640	PHENANTHRENE	178	2515 UG/L	1.005	52871
1095	C645	ANTHRACENE	178	521 UG/L	1.008	10702
1258	C655	FLUORANTHENE	202	1149 UG/L	1.158	22429
1288	C715	PYRENE	202	718 UG/L	0.880	15156
1461	C730	BENZO(A)ANTHRACENE	228	156 UG/L	0.999	3185
1466	C740	CHRYSENE	228	106 UG/L	1.002	1811
1608	C765	BENZO(B)FLUORANTHENE	252	59 UG/L	0.972	1493
1609	C770	BENZO(K)FLUORANTHENE	252	57 UG/L	0.972	1062
1647	C775	BENZO(A)PYRENE	252	52 UG/L	0.995	1037
1804	C780	INDENO(1,2,3-CD)PYRENE	276	17 UG/L	1.090	360
1809	C785	DIBENZO(A,H)ANTHRACENE	278	4 UG/L	1.093	63
1846	C790	BENZO(GHI)PERYLENE	276	19 UG/L	1.115	326

*SURROGATES WERE DILUTED OUT

Chester LabNet - HOUSTON

Reported on : 16-APR-1993

Client Name	: DAMES AND MOORE	Work Order	: H93-04.125
Sample ID	: KAB0416-009	Date Received	: 16-APR-1993
Sample Name	: H93-04.125-002 1/1000	Matrix	: WATER
Project No.	: 18804	Date Collected	: 14-APR-1993
Checked by	: MJM	Client ID	: SC-RW-G

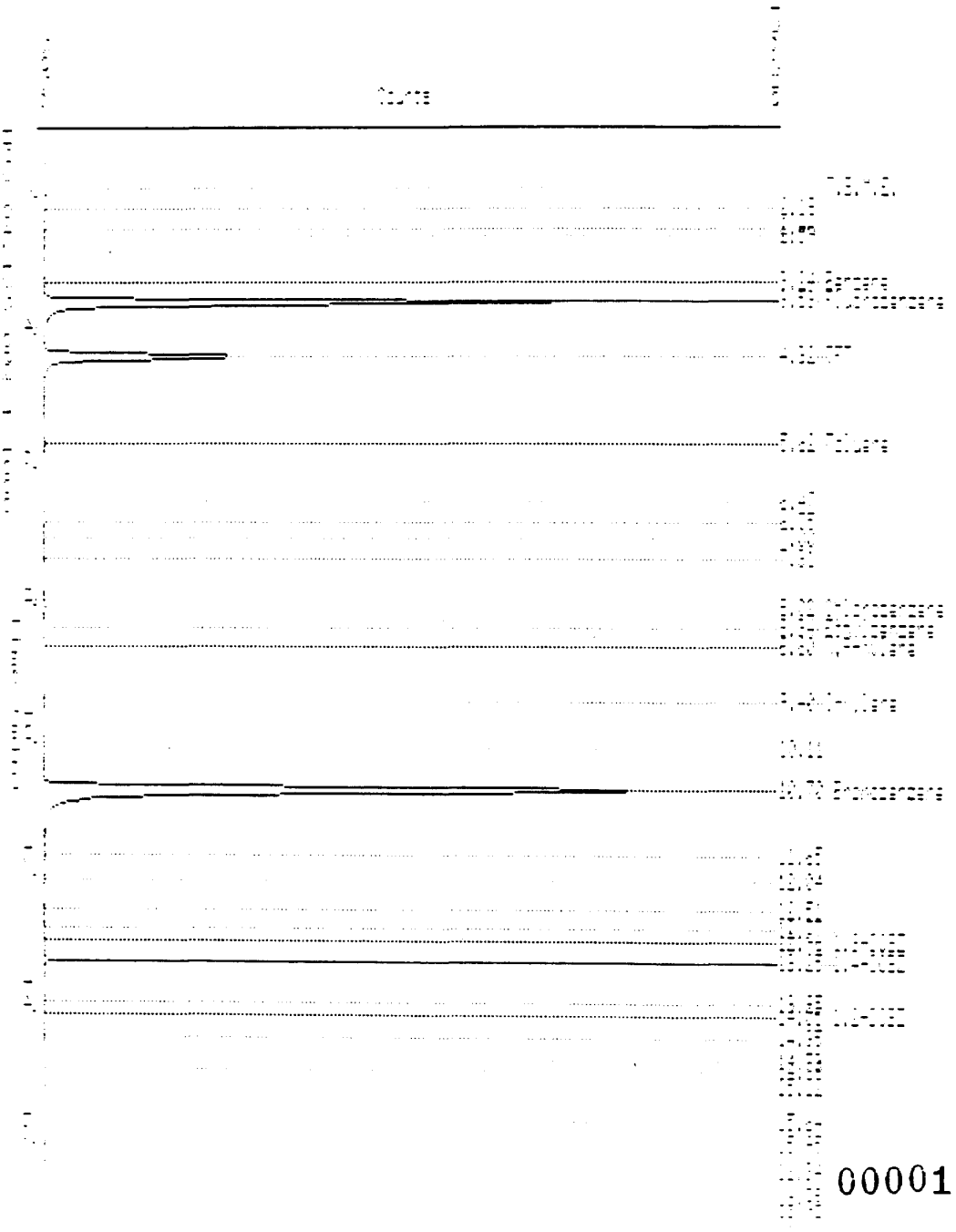
Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 16-APR-1993 14:33 Dilution Factor : 1000.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2000	2000 U
108-88-3	Toluene	3000	3000 U
100-41-4	Ethylbenzene	3000	3000 U
106-42-3	Total Xylenes	3000	3000 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

Data file: [illegible]
Report: [illegible]
Acquired: [illegible]
Time range: [illegible]
Vert. scale/offset: [illegible]



000013

011949

Chester LabNet - HOUSTON

Date.....	16-APR-1993 15:17	Report #...	252586
Raw file.....	KAB0416-009	Column ID..	DB624 Megabore
Method file.....	KBC0416-14	Method	0.000000
Last method update..	16-APR-1993 13:41	Area rej...	2000
Device.....	Channel 15A	Process #..	1
Acq. date.....	16-APR-1993 14:33	Lab ID	H93-04.125-002 1/1000
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.. volts
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	18+03
Client ID.....	SC-RW-G		

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Fluorobenzene	3.529	-0.74		517529		S1	VV	
TFT	4.325	-0.82	40242.410	214080	9	1	VB	
Toluene	5.623	-0.97	192.151	2173		1	BB	
	6.754			2758			VV	
Bromobenzene	10.705	-1.49		749535		S2	BB	
	11.654			3005			BV	
1,4-DDBC	13.253	-3.22	351.261	3418		2	VB	
	15.949			2254			BV	
	16.344			4757			VB	
	17.708			3943			BV	
	18.420			2047			VB	

Total: 1533410

000014

011949

011950

CALIBRATIONS

CHESTER LABNET-HOUSTON

000015

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --
CONTRACT NO. --
CONTRACT LAB. CHESTER LABNET
INSTRUMENT IDENTIFIER: 4530
CALIBRATION DATE: 04/17/93
STANDARD FILE: ES0419C02
DATE: 04/19/93 TIME: 9:05
MAXIMUM % D FOR CCC IS 20

011951

	COMPOUND	MEAN RF(I)	RF(D)	% D
C315	PHENOL	1.669	1.734	3.865
C325	BIS(2-CHLOROETHYL)ETHE	1.673	1.749	4.572
C330	2-CHLOROPHENOL	1.393	1.362	-2.200
C335	1,3-DICHLOROBENZENE	1.481	1.394	-5.876
C340	1,4-DICHLOROBENZENE	1.561	1.484	-4.949
C345	BENZYL ALCOHOL	0.909	0.903	-0.632
C350	1,2-DICHLOROBENZENE	1.491	1.412	-5.312
C355	2-METHYLPHENOL	1.214	1.198	-1.341
C357	2,2'-OXYBIS(1-CHLOROPR	2.394	2.611	9.070
C365	4-METHYLPHENOL	1.295	1.198	-7.478
C370	N-NITROSODIPROPYLAMINE	1.137	1.189	4.579
C375	HEXACHLOROETHANE	0.619	0.583	-5.835
C410	NITROBENZENE	0.405	0.428	5.573
C415	ISOPHORONE	0.784	0.794	1.333
C420	2-NITROPHENOL	0.211	0.203	-3.596
C425	2,4-DIMETHYLPHENOL	0.297	0.315	6.191
C430	BENZOIC ACID	0.226	0.231	2.495
C435	BIS(2-CHLOROETHOXY)MET	0.493	0.509	3.308
C440	2,4-DICHLOROPHENOL	0.273	0.278	1.763
C445	1,2,4-TRICHLOROBENZENE	0.296	0.292	-1.205
C450	NAPHTHALENE	1.049	0.914	-12.839
C455	4-CHLOROANILINE	0.418	0.411	-1.851
C460	HEXACHLOROBUTADIENE	0.148	0.159	7.774
C465	P-CHLORO-M-CRESOL	0.284	0.308	8.255
C470	2-METHYLNAPHTHALENE	0.754	0.755	0.156
C510	HEXACHLOROCYCLOPENTADI	0.356	0.383	7.505
C515	2,4,6-TRICHLOROPHENOL	0.453	0.391	-13.643
C520	2,4,5-TRICHLOROPHENOL	0.342	0.422	23.359
C525	2-CHLORONAPHTHALENE	1.285	1.171	-8.878
C530	2-NITROANILINE	0.468	0.487	4.094
C535	DIMETHYL PHTHALATE	1.522	1.484	-2.481
C540	ACENAPHTHYLENE	2.030	1.742	-14.150
C545	3-NITROANILINE	0.355	0.326	-8.093
C550	ACENAPHTHENE	1.129	0.986	-12.652
C555	2,4-DINITROPHENOL	0.218	0.201	-7.608
C560	4-NITROPHENOL	0.124	0.143	15.027
C565	DIBENZOFURAN	1.706	1.606	-5.837
C570	2,4-DINITROTOLUENE	0.441	0.423	-4.012
C543	2,6-DINITROTOLUENE	0.365	0.345	-5.489
C580	DIETHYL PHTHALATE	1.556	1.469	-5.616
C585	4-CHLOROPHENYL PHENYL	0.706	0.691	-2.104
C590	FLUORENE	1.322	1.153	-12.827
C595	4-NITROANILINE	0.271	0.297	9.612
C610	4,6-DINITRO-2-METHYLPH	0.168	0.157	-6.612
C615	N-NITROSODIPHENYLAMINE	0.621	0.591	-4.895
C625	4-BROMOPHENYL PHENYL E	0.222	0.229	3.115
C630	HEXACHLOROBENZENE	0.229	0.243	6.079
C635	PENTACHLOROPHENOL	0.152	0.158	3.929
C640	PHENANTHRENE	1.340	1.003	-25.128
C645	ANTHRACENE	1.018	0.979	-3.753
C650	DI-N-BUTYL PHTHALATE	1.590	1.397	-12.112
C655	FLUORANTHENE	1.129	0.931	-17.525

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C715	PYRENE	1.123	1.111	-16.002
C720	BUTYL BENZYL PHTHALATE	0.790	0.675	-14.524
C725	3,3'-DICHLOROBENZIDINE	0.384	0.328	-14.554
C730	BENZO(A)ANTHRACENE	1.347	1.078	-19.981
C745	BIS(2-ETHYLHEXYL)PHTHA	1.059	0.934	-11.818
C740	CHRYSENE	0.944	0.898	-4.853
C760	DI-N-OCTYL PHTHALATE	1.913	1.700	-11.137
C765	BENZO(B)FLUORANTHENE	1.429	1.284	-10.116
C770	BENZO(K)FLUORANTHENE	1.181	0.938	-20.556
C775	BENZO(A)PYRENE	1.094	1.006	-7.991
C780	INDENO(1,2,3-CD)PYRENE	1.124	1.043	-7.214
C785	DIBENZO(A,H)ANTHRACENE	0.927	0.852	-8.107
C790	BENZO(GHI)PERYLENE	0.953	0.870	-8.800
C310	N-NITROSODIMETHYLAMINE	1.067	0.782	-26.677
C620	1,2-DIPHENYL-HYDRAZINE	1.079	1.017	-5.787
C320	ANILINE	2.058	2.090	1.568
CS50	2-FLUOROPHENOL ** SU1	1.330	1.491	12.065
CS45	PHENOL-D5 ** SU2 **	1.715	1.934	12.729
CS55	2,4,6-TRIBROMOPHENOL	0.182	0.225	23.572
CS20	NITROBENZENE-D5 ** SU3	0.400	0.455	13.794
CS25	2-FLUOROBIPHENYL **SU4	1.328	1.367	2.913
CS30	TERPHENYL-D14 ** SU6	1.170	1.197	2.282
CS70	2-CHLOROPHENOL-D4 ** S	1.781	1.947	9.339
CS75	1,2-DICHLOROBENZENE-D4	0.879	0.920	4.763
C647	CARBAZOLE	0.851	0.722	-15.160
CC65	3+4-METHYLPHENOL			
A950	PYRIDINE	1.763	1.207	-31.544

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011953

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4530

LAB ID. ES0419C02

CLIENT CHESTER ANALYST SC

DATE INJECTED 04/19/93 9:05:00 VERFIED BY

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS1**		152	440	40	15727	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **		136	622	40	54476	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **		164	874	40	29220	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **		188	1081	40	47768	1.000	1.000
CI70	CHRYSENE-D12 ** IS5 **		240	1460	40	40499	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **		264	1652	40	39963	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **		112	273	50	29303	0.620	1.491
CS45	PHENOL-D5 ** SU2 **		99	410	50	38018	0.932	1.934
CS55	2,4,6-TRIBROMOPHENOL ** SU5 **		330	987	50	6204	1.129	0.225
CS20	NITROBENZENE-D5 ** SU3 **		82	523	50	30985	0.841	0.455
CS25	2-FLUOROBIPHENYL **SU4 **		172	784	50	49918	0.897	1.367
CS30	TERPHENYL-D14 ** SU6 **		244	1316	50	60576	0.901	1.197
C315	PHENOL	10A	94	411	50	34089	0.934	1.734
C325	BIS(2-CHLOROETHYL)ETHER	11B	93	414	50	34393	0.941	1.749
C330	2-CHLOROPHENOL	1A	128	417	50	26777	0.948	1.362
C335	1,3-DICHLOROBENZENE	21B	146	434	50	27408	0.986	1.394
C340	1,4-DICHLOROBENZENE	22B	146	442	50	29171	1.005	1.484
C345	BENZYL ALCOHOL		108	469	50	17752	1.066	0.903
C350	1,2-DICHLOROBENZENE	20B	146	468	50	27753	1.064	1.412
C355	2-METHYLPHENOL		108	516	50	23546	1.173	1.198
C357	2,2'-OXYBIS(1-CHLOROPROPANE)		45	493	50	51330	1.120	2.611
C365	4-METHYLPHENOL		108	516	50	23546	1.173	1.198
C370	N-NITROSODIPROPYLAMINE	42B	70	512	50	23383	1.164	1.189
C375	HEXACHLOROETHANE	36B	117	512	50	11455	1.164	0.583
C410	NITROBENZENE	40B	77	526	50	29115	0.846	0.428
C415	ISOPHORONE	38B	82	562	50	54093	0.904	0.794
C420	2-NITROPHENOL	6A	139	572	50	13854	0.920	0.203
C425	2,4-DIMETHYLPHENOL	3A	107	590	50	21444	0.949	0.315
C430	BENZOIC ACID		122	618	50	15757	0.994	0.231
C435	BIS(2-CHLOROETHOXY)METHANE	10B	93	601	50	34690	0.966	0.509
C440	2,4-DICHLOROPHENOL	2A	162	609	50	18913	0.979	0.278
C445	1,2,4-TRICHLOROBENZENE	46B	180	618	50	19901	0.994	0.292
C450	NAPHTHALENE	39B	128	625	50	62270	1.005	0.914
C455	4-CHLOROANILINE		127	641	50	27960	1.031	0.411
C460	HEXACHLOROBUTADIENE	34B	225	657	50	10831	1.056	0.159
C465	P-CHLORO-M-CRESOL	5A	107	719	50	20956	1.156	0.308
C470	2-METHYLNAPHTHALENE		142	725	50	51391	1.166	0.755
C510	HEXACHLOROCYCLOPENTADIENE	35B	237	760	50	13999	0.870	0.383
C515	2,4,6-TRICHLOROPHENOL	11A	196	773	50	14275	0.884	0.391
C520	2,4,5-TRICHLOROPHENOL		196	778	50	15397	0.890	0.422
C525	2-CHLORONAPHTHALENE	16B	162	793	50	42776	0.907	1.171
C530	2-NITROANILINE		65	816	50	17783	0.934	0.487
C535	DIMETHYL PHTHALATE	25B	163	852	50	54215	0.975	1.484
C540	ACENAPHTHYLENE	2B	152	851	50	63644	0.974	1.742
C545	3-NITROANILINE		138	876	50	11922	1.002	0.326
C550	ACENAPHTHENE	1B	153	879	50	36014	1.006	0.986

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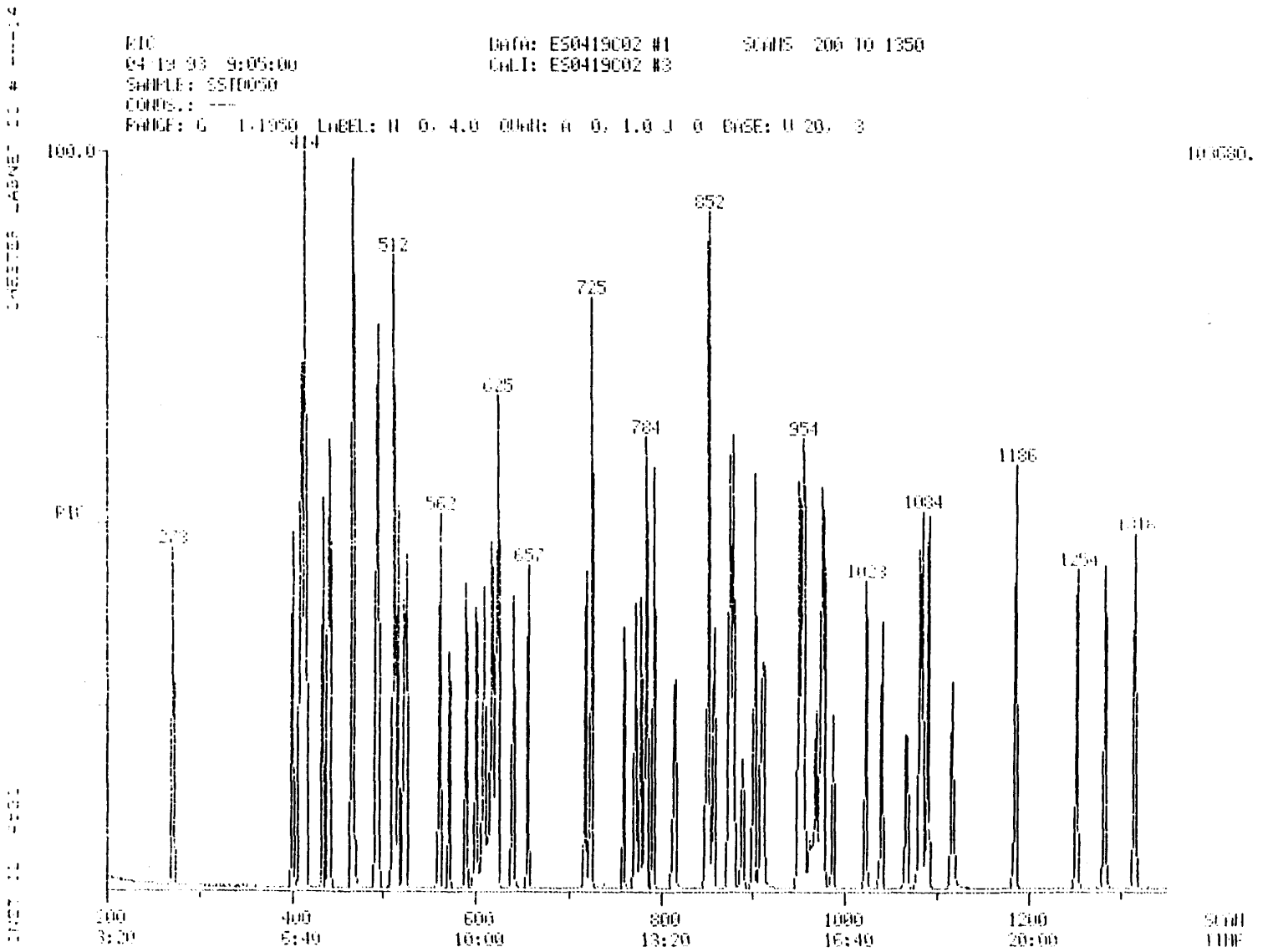
SV STANDARD REPORT PAGE 2

DATAFILE ES0419C02

	SV COMPOUNDS		M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	5A	184	889	50	7345	1.017	0.201
C560	4-NITROPHENOL	7A	109	909	50	5223	1.040	0.143
C565	DIBENZOFURAN		168	902	50	58664	1.032	1.606
C570	2,4-DINITROTOLUENE	27B	165	911	50	15458	1.042	0.423
C543	2,6-DINITROTOLUENE	28B	165	858	50	12595	0.982	0.345
C580	DIETHYL PHTHALATE	24B	149	954	50	53641	1.092	1.469
C585	4-CHLOROPHENYL PHENYL ETHER	17B	204	956	50	25239	1.094	0.691
C590	FLUORENE	32B	166	950	50	42103	1.087	1.153
C595	4-NITROANILINE		138	962	50	10840	1.101	0.297
C610	4,6-DINITRO-2-METHYLPHENOL	4A	198	969	50	9377	0.896	0.157
C613	N-NITROSODIPHENYLAMINE	43B	169	974	50	35281	0.901	0.591
C625	4-BROMOPHENYL PHENYL ETHER	14B	248	1023	50	13670	0.946	0.229
C630	HEXACHLOROBENZENE	33B	284	1040	50	14536	0.962	0.243
C635	PENTACHLOROPHENOL	9A	266	1067	50	9416	0.987	0.158
C640	PHENANTHRENE	44B	178	1084	50	59877	1.003	1.003
C645	ANTHRACENE	3B	178	1091	50	58481	1.009	0.979
C650	DI-N-BUTYL PHTHALATE	26B	149	1186	50	83424	1.097	1.397
C655	FLUORANTHENE	31B	202	1254	50	55583	1.160	0.931
C715	PYRENE	45B	202	1284	50	56262	0.879	1.111
C720	BUTYL BENZYL PHTHALATE	15B	149	1397	50	34179	0.957	0.675
C725	3,3'-DICHLOROBENZIDINE	23B	252	1461	50	16616	1.001	0.328
C730	BENZO(A)ANTHRACENE	5B	228	1458	50	54555	0.999	1.078
C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B	149	1488	50	47288	1.019	0.934
C740	CHRYSENE	18B	228	1464	50	45455	1.003	0.898
C760	DI-N-OCTYL PHTHALATE	29B	149	1573	50	84912	0.952	1.700
C765	BENZO(B)FLUORANTHENE	7B	252	1605	50	64153	0.972	1.284
C770	BENZO(K)FLUORANTHENE	9B	252	1608	50	46863	0.973	0.938
C775	BENZO(A)PYRENE	6B	252	1645	50	50259	0.996	1.006
C780	INDENO(1,2,3-CD)PYRENE	37B	276	1801	50	52079	1.090	1.043
C785	DIBENZO(A,H)ANTHRACENE	19B	278	1805	50	42559	1.093	0.852
C790	BENZO(GHI)PERYLENE	8B	276	1843	50	43436	1.116	0.870
C310	N-NITROSODIMETHYLAMINE	41B	74	134	50	15376	0.305	0.782
C710	BENZIDINE	4B						
CS70	2-CHLOROPHENOL-D4 ** SU7 **		132	414	50	38279	0.941	1.947
CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **		152	466	50	18095	1.059	0.920
C647	CARBAZOLE		167	1117	50	43118	1.033	0.722
C320	ANILINE		93	401	50	41087	0.911	2.090
A950	PYRIDINE		79	135	50	23720	0.307	1.207
C620	1,2-DIPHENYL-HYDRAZINE	30B	77	977	50	60718	0.904	1.017



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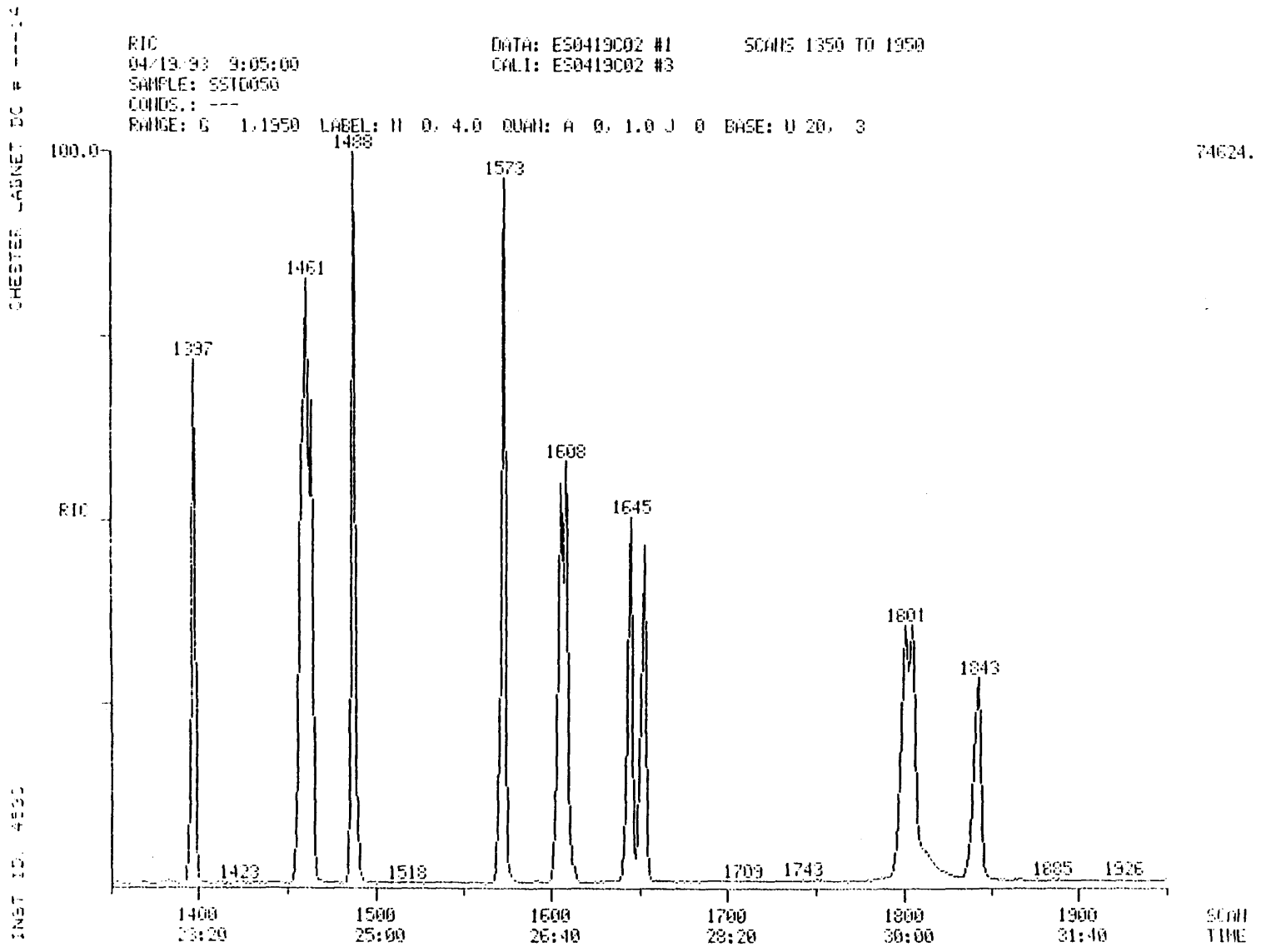
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04/19/93 9:05:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1950 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: ES0413C02 #1
CALI: ES0413C02 #3
SCANS 1350 TO 1950
100.0
RIC
74624.
1337
1461
1488
1573
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1400
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SCAN
TIME

011956

Quantitation Report File ES0419C02

Data ES0419C02 TI
04/19/93 9:05:00
Sample: SSTD050
Conds : ---
Formula: 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst: SC Acct. No.: --

011957

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1**	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL **SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

011958

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	440	7:20	1	1.000	A BB	15727.	40.000 UG/L	0.97
2	136	622	10:22	2	1.000	A BB	54476.	40.000 UG/L	0.97
3	164	874	14:34	3	1.000	A BB	29220.	40.000 UG/L	0.97
4	188	1081	18:01	4	1.000	A BV	47768.	40.000 UG/L	0.97
5	240	1460	24:20	5	1.000	A BB	40499.	40.000 UG/L	0.97
6	264	1652	27:32	6	1.000	A BB	39963.	40.000 UG/L	0.97
7	112	273	4:33	1	0.620	A BB	29303.	50.000 UG/L	1.21
8	99	410	6:50	1	0.932	A BV	38018.	50.000 UG/L	1.21
9	330	987	16:27	3	1.129	A BB	8204.	50.000 UG/L	1.21
10	82	523	8:43	2	0.841	A BB	30985.	50.000 UG/L	1.21
11	172	784	13:04	3	0.897	A BB	49918.	50.000 UG/L	1.21
12	244	1316	21:56	5	0.901	A BB	60576.	50.000 UG/L	1.21
13	94	411	6:51	1	0.934	A BB	34089.	50.000 UG/L	1.21
14	93	414	6:54	1	0.941	A BB	34393.	50.000 UG/L	1.21
15	128	417	6:57	1	0.948	A BB	26777.	50.000 UG/L	1.21
16	146	434	7:14	1	0.986	M XX	27408.	50.000 UG/L	1.21
17	146	442	7:22	1	1.005	A BB	29171.	50.000 UG/L	1.21
18	108	469	7:49	1	1.066	A BB	17752.	50.000 UG/L	1.21
19	146	468	7:48	1	1.064	A BB	27753.	50.000 UG/L	1.21
20	108	516	8:36	1	1.173	A BB	23546.	50.000 UG/L	1.21
21	45	493	8:13	1	1.120	A BB	51330.	50.000 UG/L	1.21
22	108	516	8:36	1	1.173	A BB	23546.	50.000 UG/L	1.21
23	70	512	8:32	1	1.164	A BB	23383.	50.000 UG/L	1.21
24	117	512	8:32	1	1.164	A BB	11455.	50.000 UG/L	1.21
25	77	526	8:46	2	0.846	A BB	29115.	50.000 UG/L	1.21
26	82	562	9:22	2	0.904	A BB	54093.	50.000 UG/L	1.21
27	139	572	9:32	2	0.920	A BB	13854.	50.000 UG/L	1.21
28	107	590	9:50	2	0.949	A BB	21444.	50.000 UG/L	1.21
29	122	618	10:18	2	0.994	A BB	15757.	50.000 UG/L	1.21
30	93	601	10:01	2	0.966	A BB	34690.	50.000 UG/L	1.21
31	162	609	10:09	2	0.979	A BB	18913.	50.000 UG/L	1.21
32	180	618	10:18	2	0.994	A BB	19901.	50.000 UG/L	1.21
33	128	625	10:25	2	1.005	A BB	62270.	50.000 UG/L	1.21
34	127	641	10:41	2	1.031	A BB	27960.	50.000 UG/L	1.21
35	225	657	10:57	2	1.056	A BB	10831.	50.000 UG/L	1.21
36	107	719	11:59	2	1.156	A BB	20956.	50.000 UG/L	1.21
37	142	725	12:05	2	1.166	A VB	51391.	50.000 UG/L	1.21
38	237	760	12:40	3	0.870	A BB	13999.	50.000 UG/L	1.21
39	196	773	12:53	3	0.884	M XX	14275.	50.000 UG/L	1.21
40	196	778	12:58	3	0.890	M XX	15397.	50.000 UG/L	1.21
41	162	793	13:13	3	0.907	A BB	42776.	50.000 UG/L	1.21
42	65	816	13:36	3	0.934	A BB	17783.	50.000 UG/L	1.21
43	163	852	14:12	3	0.975	A BB	54215.	50.000 UG/L	1.21
44	152	851	14:11	3	0.974	A BB	63644.	50.000 UG/L	1.21
45	138	876	14:36	3	1.002	A BB	11922.	50.000 UG/L	1.21
46	153	879	14:39	3	1.006	A BB	36014.	50.000 UG/L	1.21
47	184	889	14:49	3	1.017	A BB	7345.	50.000 UG/L	1.21
48	109	909	15:09	3	1.040	A BB	5223.	50.000 UG/L	1.21
49	168	902	15:02	3	1.032	A BB	58664.	50.000 UG/L	1.21
50	165	911	15:11	3	1.042	A BB	15458.	50.000 UG/L	1.21

011958

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	14:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	19:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	24:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	27:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:33	1.00	0.620	1.00	50.00	50.00	1.491	1.491	1.00
8	6:50	1.00	0.932	1.00	50.00	50.00	1.934	1.934	1.00
9	16:27	1.00	1.129	1.00	50.00	50.00	0.225	0.225	1.00
10	8:43	1.00	0.841	1.00	50.00	50.00	0.455	0.455	1.00
11	13:04	1.00	0.897	1.00	50.00	50.00	1.367	1.367	1.00
12	21:56	1.00	0.901	1.00	50.00	50.00	1.197	1.197	1.00
13	6:51	1.00	0.934	1.00	50.00	50.00	1.734	1.734	1.00
14	6:54	1.00	0.941	1.00	50.00	50.00	1.749	1.749	1.00
15	6:57	1.00	0.948	1.00	50.00	50.00	1.362	1.362	1.00
16	7:14	1.00	0.986	1.00	50.00	50.00	1.394	1.394	1.00
17	7:22	1.00	1.005	1.00	50.00	50.00	1.484	1.484	1.00
18	7:49	1.00	1.066	1.00	50.00	50.00	0.903	0.903	1.00
19	7:48	1.00	1.064	1.00	50.00	50.00	1.412	1.412	1.00
20	8:36	1.00	1.173	1.00	50.00	50.00	1.198	1.198	1.00
21	8:13	1.00	1.120	1.00	50.00	50.00	2.611	2.611	1.00
22	8:36	1.00	1.173	1.00	50.00	50.00	1.198	1.198	1.00
23	8:32	1.00	1.164	1.00	50.00	50.00	1.189	1.189	1.00
24	8:32	1.00	1.164	1.00	50.00	50.00	0.583	0.583	1.00
25	8:46	1.00	0.846	1.00	50.00	50.00	0.428	0.428	1.00
26	9:22	1.00	0.904	1.00	50.00	50.00	0.794	0.794	1.00
27	9:32	1.00	0.920	1.00	50.00	50.00	0.203	0.203	1.00
28	9:50	1.00	0.949	1.00	50.00	50.00	0.315	0.315	1.00
29	10:18	1.00	0.994	1.00	50.00	50.00	0.231	0.231	1.00
30	10:01	1.00	0.966	1.00	50.00	50.00	0.509	0.509	1.00
31	10:09	1.00	0.979	1.00	50.00	50.00	0.278	0.278	1.00
32	10:18	1.00	0.994	1.00	50.00	50.00	0.292	0.292	1.00
33	10:25	1.00	1.005	1.00	50.00	50.00	0.914	0.914	1.00
34	10:41	1.00	1.031	1.00	50.00	50.00	0.411	0.411	1.00
35	10:57	1.00	1.056	1.00	50.00	50.00	0.159	0.159	1.00
36	11:59	1.00	1.156	1.00	50.00	50.00	0.308	0.308	1.00
37	12:05	1.00	1.166	1.00	50.00	50.00	0.755	0.755	1.00
38	12:40	1.00	0.870	1.00	50.00	50.00	0.383	0.383	1.00
39	12:53	1.00	0.884	1.00	50.00	50.00	0.391	0.391	1.00
40	12:58	1.00	0.890	1.00	50.00	50.00	0.422	0.422	1.00
41	13:13	1.00	0.907	1.00	50.00	50.00	1.171	1.171	1.00
42	13:36	1.00	0.934	1.00	50.00	50.00	0.487	0.487	1.00
43	14:12	1.00	0.975	1.00	50.00	50.00	1.484	1.484	1.00
44	14:11	1.00	0.974	1.00	50.00	50.00	1.742	1.742	1.00
45	14:36	1.00	1.002	1.00	50.00	50.00	0.326	0.326	1.00
46	14:39	1.00	1.006	1.00	50.00	50.00	0.986	0.986	1.00
47	14:49	1.00	1.017	1.00	50.00	50.00	0.201	0.201	1.00
48	15:09	1.00	1.040	1.00	50.00	50.00	0.143	0.143	1.00
49	15:02	1.00	1.032	1.00	50.00	50.00	1.606	1.606	1.00
50	15:11	1.00	1.042	1.00	50.00	50.00	0.423	0.423	1.00

011959

Quantitation Report File ES0419002

Data ES0419002 TI
04/19/93 9:05:00
Sample SSTD050
Conds. ---
Formula. 04/17/93 Instrument: 4530 Weight: 1.000
Submitted by: CHESTER Analyst. SC Acct. No.: --

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C870	2-CHLOROPHENOL-D4 ** SU7 **	
80	C875	1,2-DICHLOROBENZENE-D4 ** SU8 **	
81	C647	CARBAZOLE	
82	C320	ANILINE	
83	A950	PYRIDINE	
84	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	858	14:18	3	0.982	A BB	12595.	50.000 UG/L	1.21
52	149	954	15:54	3	1.092	A BB	53641.	50.000 UG/L	1.21
53	204	956	15:56	3	1.094	A BB	25239.	50.000 UG/L	1.21
54	166	950	15:50	3	1.087	A BB	42103.	50.000 UG/L	1.21
55	138	962	16:02	3	1.101	M XX	10840.	50.000 UG/L	1.21
56	198	969	16:09	4	0.896	A BB	9377.	50.000 UG/L	1.21
57	169	974	16:14	4	0.901	A BB	35281.	50.000 UG/L	1.21
58	248	1023	17:03	4	0.946	A BB	13670.	50.000 UG/L	1.21
59	284	1040	17:20	4	0.962	A BB	14536.	50.000 UG/L	1.21

011960

000025

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
60	266	1067	17:47	4	0.987	A BB	9416.	50.000 UG/L	1.21
61	178	1084	18:04	4	1.003	A BV	59877.	50.000 UG/L	1.21
62	178	1091	18:11	4	1.009	A VB	58481	50.000 UG/L	1.21
63	149	1186	19:46	4	1.097	A BB	83424	50.000 UG/L	1.21
64	202	1254	20:54	4	1.160	A BB	55583.	50.000 UG/L	1.21
65	202	1284	21:24	5	0.879	A BB	56262.	50.000 UG/L	1.21
66	145	1397	23:17	5	0.957	A BB	34179.	50.000 UG/L	1.21
67	252	1461	24:21	5	1.001	A BB	16616	50.000 UG/L	1.21
68	228	1458	24:18	5	0.999	A BV	54555.	50.000 UG/L	1.21
69	149	1488	24:48	5	1.019	A BB	47288.	50.000 UG/L	1.21
70	228	1464	24:24	5	1.003	A VB	45455.	50.000 UG/L	1.21
71	149	1573	26:13	6	0.952	A BB	84912.	50.000 UG/L	1.21
72	252	1605	26:45	6	0.972	M XX	64153.	50.000 UG/L	1.21
73	252	1608	26:48	6	0.973	M XX	46863.	50.000 UG/L	1.21
74	252	1645	27:25	6	0.996	A BB	50259.	50.000 UG/L	1.21
75	276	1801	30:01	6	1.090	A BB	52079.	50.000 UG/L	1.21
76	278	1805	30:05	6	1.093	A BB	42559.	50.000 UG/L	1.21
77	276	1843	30:43	6	1.116	A BB	43436.	50.000 UG/L	1.21
78	74	134	2:14	1	0.305	A BB	15376.	50.000 UG/L	1.21
79	132	414	6:54	1	0.941	A BB	38279.	50.000 UG/L	1.21
80	152	466	7:46	1	1.059	A BB	18095.	50.000 UG/L	1.21
81	167	1117	18:37	4	1.033	A BB	43118.	50.000 UG/L	1.21
82	93	401	6:41	1	0.911	M XX	41087.	50.000 UG/L	1.21
83	79	135	2:15	1	0.307	M XX	23720.	50.000 UG/L	1.21
84	77	977	16:17	4	0.904	A BB	60718.	50.000 UG/L	1.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	14:18	1.00	0.982	1.00	50.00	50.00	0.345	0.345	1.00
52	15:54	1.00	1.092	1.00	50.00	50.00	1.469	1.469	1.00
53	15:56	1.00	1.094	1.00	50.00	50.00	0.691	0.691	1.00
54	15:50	1.00	1.087	1.00	50.00	50.00	1.153	1.153	1.00
55	16:02	1.00	1.101	1.00	50.00	50.00	0.297	0.297	1.00
56	16:09	1.00	0.896	1.00	50.00	50.00	0.157	0.157	1.00
57	16:14	1.00	0.901	1.00	50.00	50.00	0.591	0.591	1.00
58	17:03	1.00	0.946	1.00	50.00	50.00	0.229	0.229	1.00
59	17:20	1.00	0.962	1.00	50.00	50.00	0.243	0.243	1.00
60	17:47	1.00	0.987	1.00	50.00	50.00	0.158	0.158	1.00
61	18:04	1.00	1.003	1.00	50.00	50.00	1.003	1.003	1.00
62	18:11	1.00	1.009	1.00	50.00	50.00	0.979	0.979	1.00
63	19:46	1.00	1.097	1.00	50.00	50.00	1.397	1.397	1.00
64	20:54	1.00	1.160	1.00	50.00	50.00	0.931	0.931	1.00
65	21:24	1.00	0.879	1.00	50.00	50.00	1.111	1.111	1.00
66	23:17	1.00	0.957	1.00	50.00	50.00	0.675	0.675	1.00
67	24:21	1.00	1.001	1.00	50.00	50.00	0.328	0.328	1.00
68	24:18	1.00	0.999	1.00	50.00	50.00	1.078	1.078	1.00
69	24:48	1.00	1.019	1.00	50.00	50.00	0.934	0.934	1.00
70	24:24	1.00	1.003	1.00	50.00	50.00	0.898	0.898	1.00
71	26:13	1.00	0.952	1.00	50.00	50.00	1.700	1.700	1.00
72	26:45	1.00	0.972	1.00	50.00	50.00	1.284	1.284	1.00
73	26:48	1.00	0.973	1.00	50.00	50.00	0.938	0.938	1.00
74	27:25	1.00	0.996	1.00	50.00	50.00	1.006	1.006	1.00
75	30:01	1.00	1.090	1.00	50.00	50.00	1.043	1.043	1.00
76	30:05	1.00	1.093	1.00	50.00	50.00	0.852	0.852	1.00
77	30:43	1.00	1.116	1.00	50.00	50.00	0.870	0.870	1.00
78	2:14	1.00	0.305	1.00	50.00	50.00	0.782	0.782	1.00
79	6:54	1.00	0.941	1.00	50.00	50.00	1.947	1.947	1.00

011961

000026

No	Ret(L)	Ratio	RET(L)	Ratio	Amnt	Amnt(L)	R Fac	R Fac(L)	Ratio
80	7:46	1.00	1.059	1.00	50.00	50.00	0.920	0.920	1.00
81	18:37	1.00	1.033	1.00	50.00	50.00	0.722	0.722	1.00
82	6 41	1.00	0.911	1.00	50.00	50.00	2.090	2.090	1.00
83	2 15	1.00	0.307	1.00	50.00	50.00	1.207	1.207	1.00
84	16 17	1.00	0.904	1.00	50.00	50.00	1.017	1.017	1.00

011962

011963

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 16-APR-1993
EL Method File Name. KB20318-1a.met
CC Method File Name. KB20416-1a.met
Instrument..... Hewlett-Packard 5890
Operator..... BEDO CHESTER

Compound	MEAN RCF(1)	RSD RCF(0)	% D
T.B.M.B.	0.32385	0.30746	-5.062
Benzene	1.03506	1.07727	+4.081
Fluorobenzene	14248.600	12063.769	-15.334
TFT	0.51982	0.51396	-1.128
Toluene	1.07745	1.09258	+1.404
Chlorobenzene	0.78149	1.77903	+1.678
Ethylbenzene	0.61589	0.61033	+0.904
M,P-xylene	0.78691	0.81579	+3.673
O-xylene	0.69472	0.69788	+0.455
Bromobenzene	25774.469	21783.840	-15.483
1,3-DCBZ	0.65650	0.74802	+13.941
1,4-DCBZ	0.64057	0.64911	+1.318
1,2-DCBZ	0.62775	0.58376	-6.922

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

000028

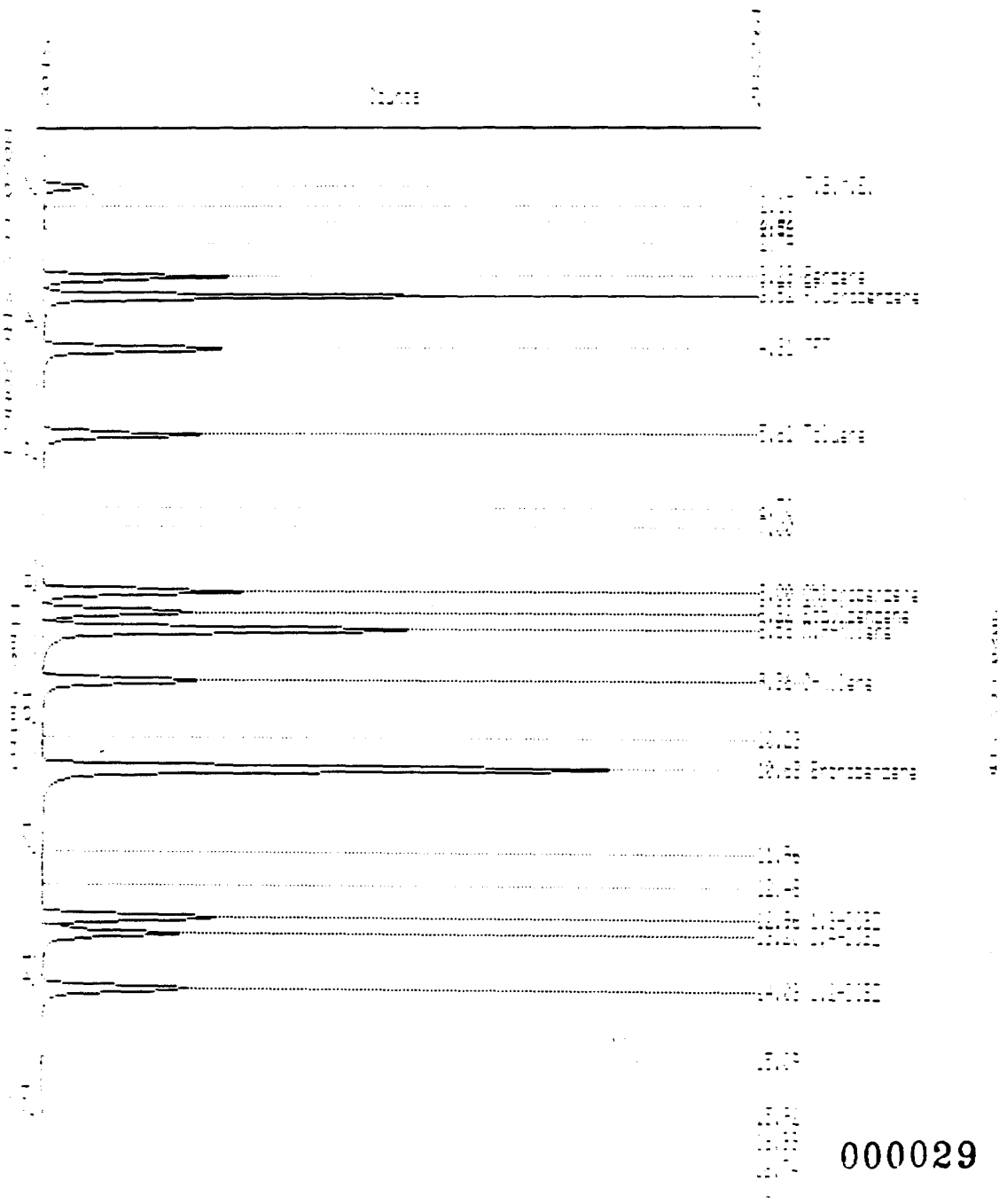
Data file: [illegible]

Report: [illegible]

Published: [illegible]

Time range: [illegible]

Vert. scale offset: [illegible]



000029

011965

Chester LabNet - HOUSTON

Date..... 16-APR-1993 13:41
Raw file..... KAB0416-001
Method file..... KBC0416-1A
Last method update.. 16-APR-1993 13:41
Device..... Channel 15A
Acq. date..... 16-APR-1993 08:45
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... 8020 CCS STD

Report #... 252536
Column ID.. DB624 Megadore
Method 0.000000
Area rej... 2000
Process #.. 4
Lab ID .... 8020 CCS STD 20UG/L
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 CCS STD 20UG/L

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref Std	BL Group
Benzene	3.231	1.08E+00	20.000	260424		1
Fluorobenzene	3.517	1.00E+00	50.000	603188		81
TFT	4.311	5.14E-01	50.000	310013	R	1
Toluene	5.607	1.09E+00	20.000	263612		1
Chlorobenzene	7.998	7.79E-01	20.000	339406		2
Ethylbenzene	8.317	6.10E-01	20.000	265905		2
M,P-Xylene	8.578	8.26E-01	40.000	719559		2
O-Xylene	9.360	6.98E-01	20.000	304052		2
Bromobenzene	10.680	1.00E+00	50.000	1089192		82
1,3-DCBZ	12.956	7.48E-01	20.000	325896		2
1,4-DCBZ	13.199	6.49E-01	20.000	282803		2
1,2-DCBZ	14.035	6.84E-01	20.000	297899		2

000030

011966

THE FOLLOWING DATA IS

FOR QA/QC

000031

011966

CHESTER LABNET DC # --- E

INST ID: 4530 SAMPLE NUMBER: SBLA (LLW)

011967

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 93-- QC REPORT NO.: 04/17/93
SAMPLE MATRIX: WATER CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4B0416C01
DATE EXTRACTED: 4/16/93
DATE ANALYZED: 04/18/93 DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4530 SAMPLE NUMBER: SBLK (LLW)

011968

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET CASE NO.: --
LAB SAMPLE ID NO.: 93-- QC REPORT NO.: 04/17/93
SAMPLE MATRIX: WATER CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 4B0416C01
DATE EXTRACTED: 4/16/93
DATE ANALYZED: 04/18/93 DILUTION FACTOR: 1.0

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

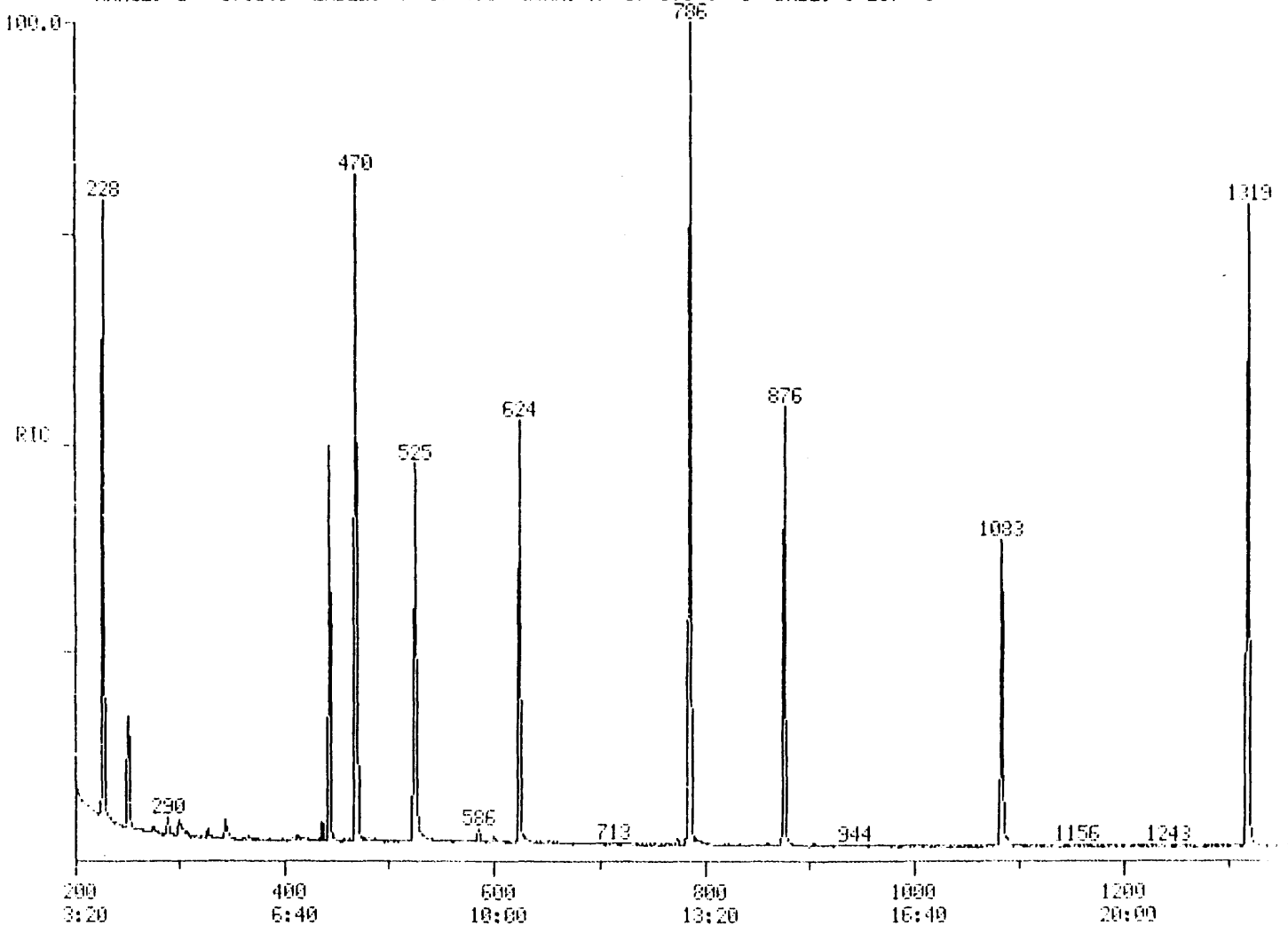
U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000030

RIC
04/18/93 16:52:00
SAMPLE: SBLK (LLW)
CONDS.: ---
RANGE: G 1,1950 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4B0416C01 #1
CALI: 4B0416C01 #3

SCANS 200 TO 1350



CHESTER LABNET DC # ----14

INST ID: 4530

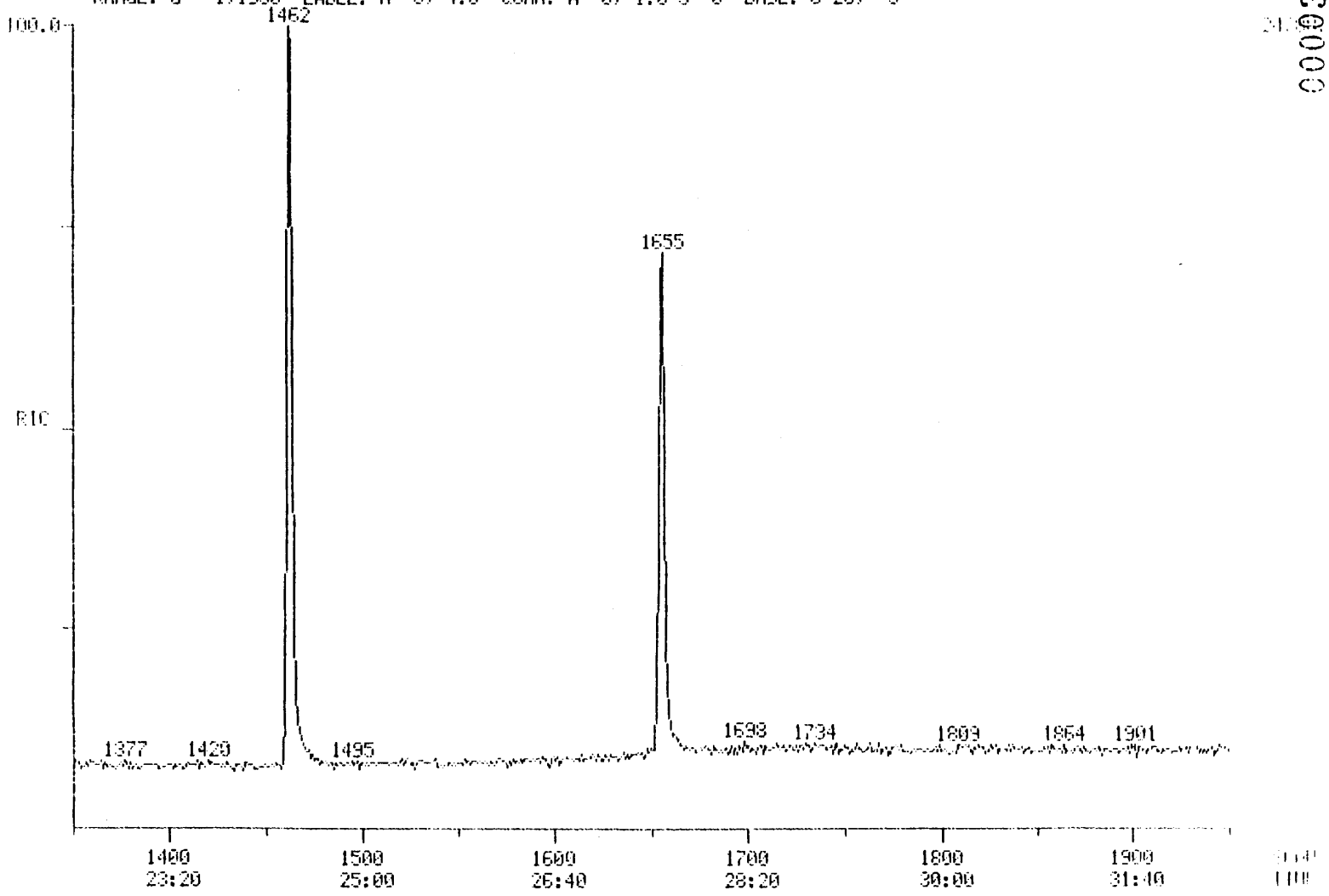
011969

011969

RIC
04/18/93 16:52:00
SAMPLE: SBLK (LLW)
CONDS.: ---
RANGE: G 1.1950 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 4B0416C01 #1
CALI: 4B0416C01 #3

SCANS 1350 TO 1950



CHESTER LABNET

INST ID: 4500

000035

011970

011970

CHESTER LABNET DC # [illegible]

011971

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SBLK (LLW)		
FILENAME	4B0416C01	INST ID.	4530
CLIENT	CHESTER	ANALYST	JZ
DATE INJECTED	04/18/93 16:52:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
444	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	1672
624	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	5660
876	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	2967
1083	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	4271
1462	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	3214
1654	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	2376
525	CS20	NITROBENZENE-D5 ** SU3 **	82	72 %	0.841	3993
786	CS25	2-FLUOROBIPHENYL **SU4 **	172	72 %	0.897	7519
1319	CS30	TERPHENYL-D14 ** SU6 **	244	103 %	0.902	8379

Chester LabNet - HOUSTON

Reported on : 16-APR-1993

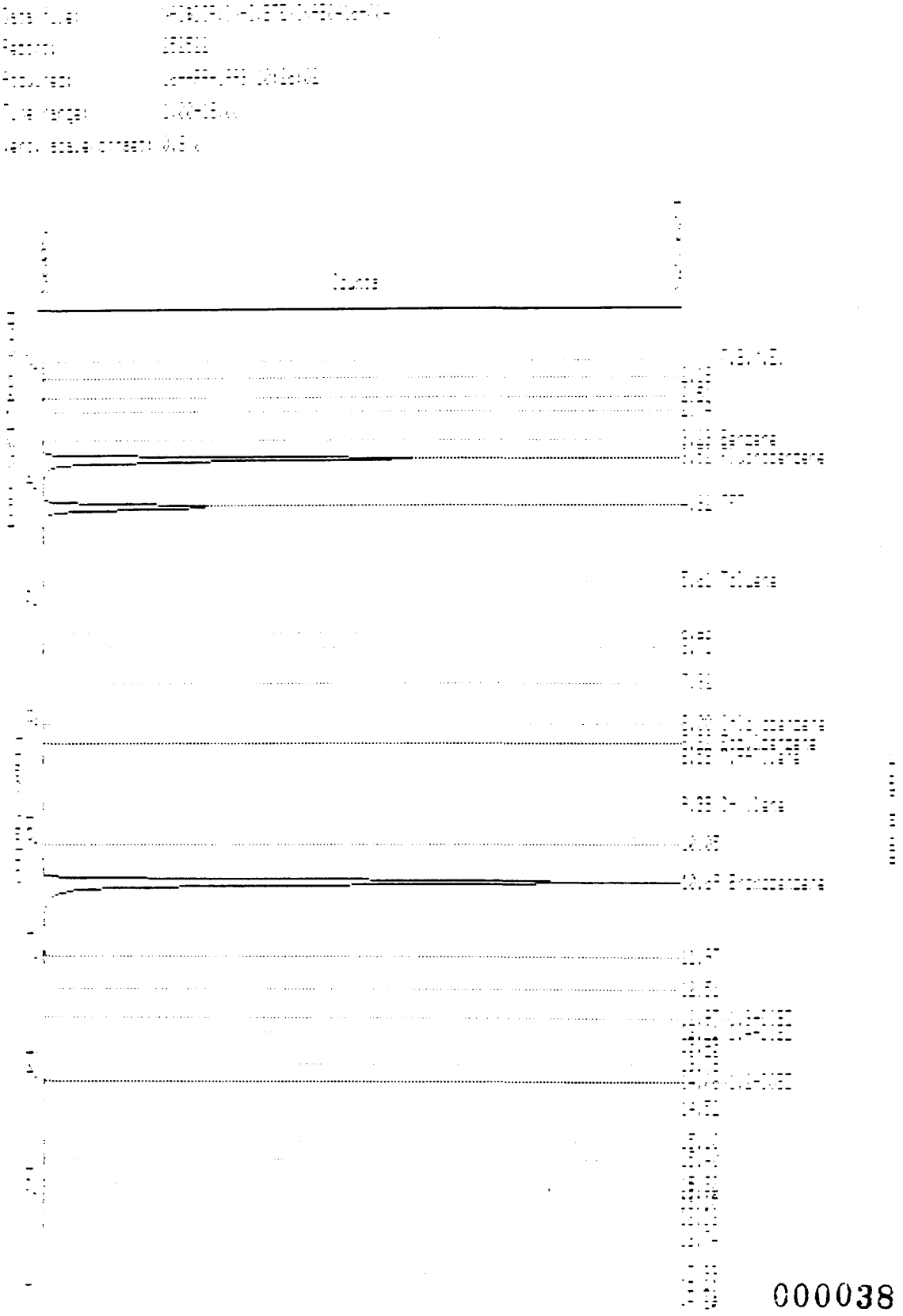
Client Name	: DAMES AND MOORE	Work Order	: H93-04.125
Sample ID	: KAB0416-004	Date Received	: 16-APR-1993
Sample Name	: H93-04.125-001	Matrix	: WATER
Project No.	: 18804	Date Collected	: 14-APR-1993
Checked by	: MJM	Client ID	: LAB BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 16-APR-1993 10:26 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.



011974

Chester LabNet - HOUSTON

Date.....	16-APR-1993 12:43	Report #...	252522
Raw file.....	KAB0416-004	Column ID..	DB624 Megabore
Method file.....	KBC0416-1A	Method	0.000000
Last method update..	16-APR-1993 12:36	Area rej...	2000
Device.....	Channel 15A	Process #..	2
Acq. date.....	16-APR-1993 10:26	Lab ID	H93-04.125-001
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	LAB BLANK		

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Fluorobenzene	3.521	-0.26		568263		E1	VV	
TFT	4.316	-0.32	48.652	284189	F	1	VB	
M,P-xylene	8.579	-0.03	0.124	2023		2	VB	
	10.051			2276			VB	
Bromobenzene	10.689	-0.54		991766		E2	BB	
	11.971			9681			BB	
1,2-DCBZ	14.058	-1.37	0.218	2951		2	BB	
	15.397			2630			VB	
	15.822			3711			BV	
	15.923			3422			VV	
	16.739			4753			VV	
	17.327			2393			VV	
	17.623			2225			VV	

Total: 1901520

000039

011974

Chester LabNet - HOUSTON

Reported on : 16-APR-1993

Client Name	: DAMES AND MOORE	Work Order	: H93-04.125
Sample ID	: KAB0416-007	Date Received	: 16-APR-1993
Sample Name	: H93-04.125-003	Matrix	: WATER
Project No.	: 18804	Date Collected	: 14-APR-1993
Checked by	: MJM	Client ID	: TRIP BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 16-APR-1993 13:19 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

011976

011976

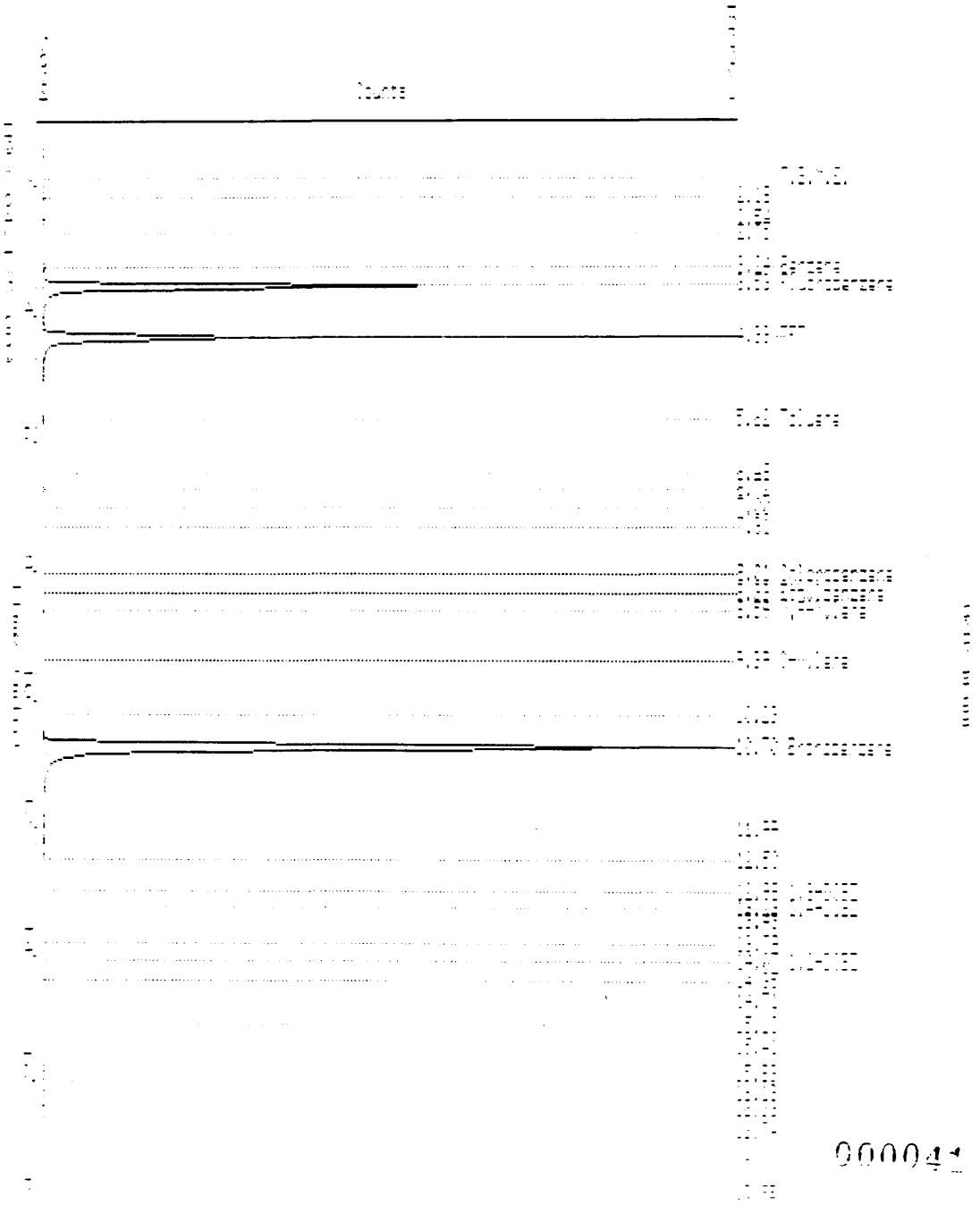
Data file: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: 1.00-13.00

Vert. scale offset: 0.0 0



011977

Chester LabNet - HOUSTON

Date.....	16-APR-1993 15:10	Report #...	252582
Raw file.....	KAB0416-007	Column ID..	DB624 Megabore
Method file.....	KBC0416-1A	Method	0.000000
Last method update..	16-APR-1993 13:41	Area rej...	2000
Device.....	Channel 15A	Process #..	1
Acq. date.....	16-APR-1993 13:19	Lab ID	93-04.125-003
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	TRIP BLANK		

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.245	-0.82	0.168	2032		1	BV	
Fluorobenzene	3.532	-0.87		560027		S1	VV	
TFT	4.327	-0.99	52.470	302048	R	1	VS	
Toluene	5.623	-0.96	0.232	2840		1	SS	
Bromobenzene	10.704	-1.41		1043398		S2	SS	
	11.991			4994			SV	
	15.827			3230			SV	
	16.127			2191			VV	
	16.743			2402			SS	

Total: 1941750

000042

011977

CHESTER LABNET QC # --- 3

INST ID. 4530 SAMPLE NUMBER: SBLK SPIKE

011978

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930412404
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY:

CASE NO.: --
QC REPORT NO.: 04/17/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED:

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/16/93
DATE ANALYZED: 04/19/93

DATAFILE: 5U04125C04
DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C315	PHENOL	10 U	
C325	BIS(2-CHLOROETHYL)ETHER	10 U	
C330	2-CHLOROPHENOL	10 U	
C335	1,3-DICHLOROBENZENE	10 U	
C340	1,4-DICHLOROBENZENE	10	44
C345	BENZYL ALCOHOL	10 U	
C350	1,2-DICHLOROBENZENE	10 U	
C355	2-METHYLPHENOL	10 U	
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	10 U	
C365	4-METHYLPHENOL	10 U	
C370	N-NITROSODIPROPYLAMINE	10	45
C375	HEXACHLOROETHANE	10 U	
C410	NITROBENZENE	10 U	
C415	ISOPHORONE	10 U	
C420	2-NITROPHENOL	10 U	
C425	2,4-DIMETHYLPHENOL	10 U	
C430	BENZOIC ACID	50 U	
C435	BIS(2-CHLOROETHOXY)METHANE	10 U	
C440	2,4-DICHLOROPHENOL	10 U	
C445	1,2,4-TRICHLOROBENZENE	10	43
C450	NAPHTHALENE	10 U	
C455	4-CHLOROANILINE	10 U	
C460	HEXACHLOROBUTADIENE	10 U	
C465	P-CHLORO-M-CRESOL	10 U	
C470	2-METHYLNAPHTHALENE	10 U	
C510	HEXACHLOROCYCLOPENTADIENE	10 U	
C515	2,4,6-TRICHLOROPHENOL	10 U	
C520	2,4,5-TRICHLOROPHENOL	50 U	
C525	2-CHLORONAPHTHALENE	10 U	
C530	2-NITROANILINE	50 U	
C535	DIMETHYL PHTHALATE	10 U	
C540	ACENAPHTHYLENE	10 U	
C545	3-NITROANILINE	50 U	
C550	ACENAPHTHENE	10	50
C555	2,4-DINITROPHENOL	50 U	
C560	4-NITROPHENOL	50 U	
C565	DIBENZOFURAN	10 U	
C570	2,4-DINITROTOLUENE	10	36
C740	2,6-DINITROTOLUENE	10 U	

000043

011978

SAMPLE NUMBER: SBLK SPIKE

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET, CONTINUED

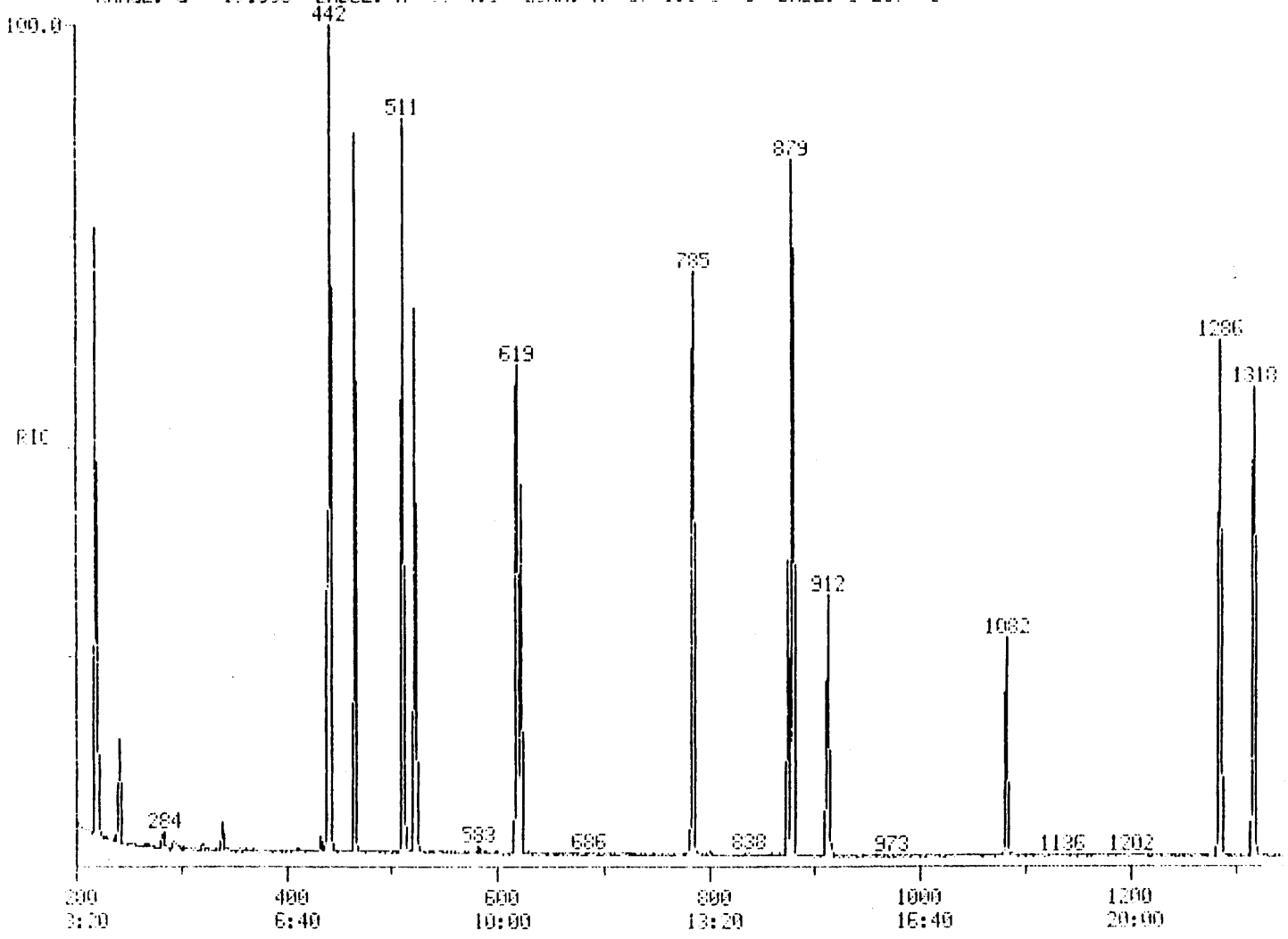
DATAFILE: 5U04125C04

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C580	DIETHYL PHTHALATE	10 U	
C585	4-CHLOROPHENYL PHENYL ETHER	10 U	
C590	FLUORENE	10 U	
C595	4-NITROANILINE	50 U	
C610	4,6-DINITRO-2-METHYLPHENOL	50 U	
C615	N-NITROSODIPHENYLAMINE	10 U	
C625	4-BROMOPHENYL PHENYL ETHER	10 U	
C630	HEXACHLOROBENZENE	10 U	
C635	PENTACHLOROPHENOL	50 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C650	DI-N-BUTYL PHTHALATE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10	59
C720	BUTYL BENZYL PHTHALATE	10 U	
C725	3,3'-DICHLOROBENZIDINE	20 U	
C730	BENZO(A)ANTHRACENE	10 U	
C735	BIS(2-ETHYLHEXYL)PHTHALATE	10 U	
C740	CHRYSENE	10 U	
C760	DI-N-OCTYL PHTHALATE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

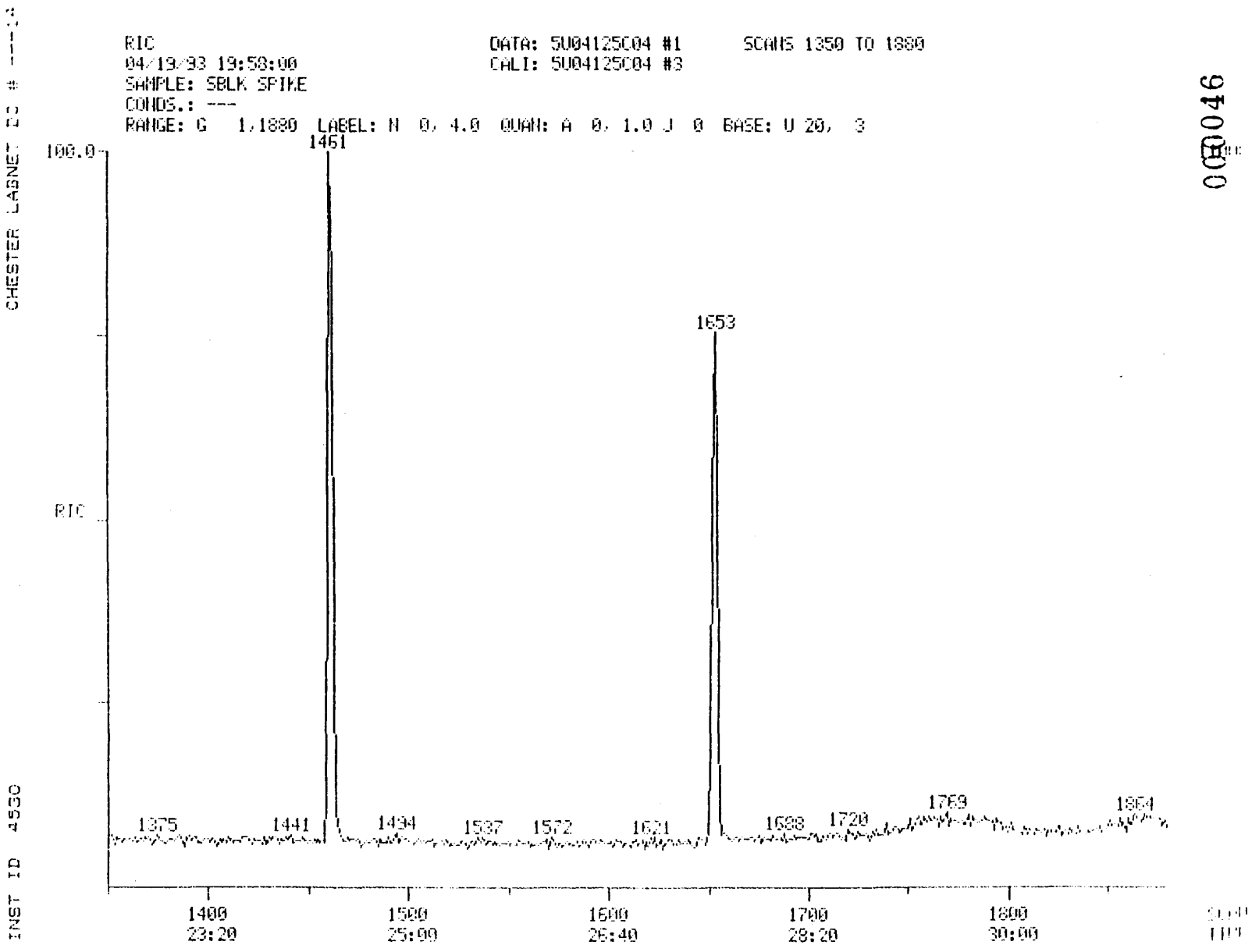
RIC
04/19/93 19:58:00
SAMPLE: SBLK SPIKE
CONDS.: ---
RANGE: G 1.1880 LABEL: H 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

DATA: 5U04125C04 #1 SCANS 200 TO 1350
CALI: 5U04125C04 #3



011980

011980



000046

011981

011981

CHESTER LABNET ID # ---14

011982

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SBLK SPIKE		
FILENAME	5U04125C04	INST ID.	4530
CLIENT	DAMES_MO	ANALYST	SC
DATE INJECTED	04/19/93 19:58:00	VERIFIED BY	
CALIB STD DATE	04/17/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
440	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	725
622	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	2474
875	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	1096
1082	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	1742
1461	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	1411
1653	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	1191
523	CS20	NITROBENZENE-D5 ** SU3 **	82	88 %	0.841	2479
785	CS25	2-FLUOROBIPHENYL **SU4 **	172	85 %	0.897	3197
1318	CS30	TERPHENYL-D14 ** SU6 **	244	86 %	0.902	3634
442	C340	1,4-DICHLOROBENZENE	146	44 UG/L	1.005	2372
511	C370	N-NITROSODIPROPYLAMINE	70	45 UG/L	1.161	1927
618	C445	1,2,4-TRICHLOROBENZENE	180	43 UG/L	0.994	1558
879	C550	ACENAPHTHENE	153	50 UG/L	1.005	2711
912	C570	2,4-DINITROTOLUENE	165	36 UG/L	1.042	839
1285	C715	PYRENE	202	59 UG/L	0.880	4602

000047

Chester LabNet - HOUSTON

Reported on : 16-APR-1993

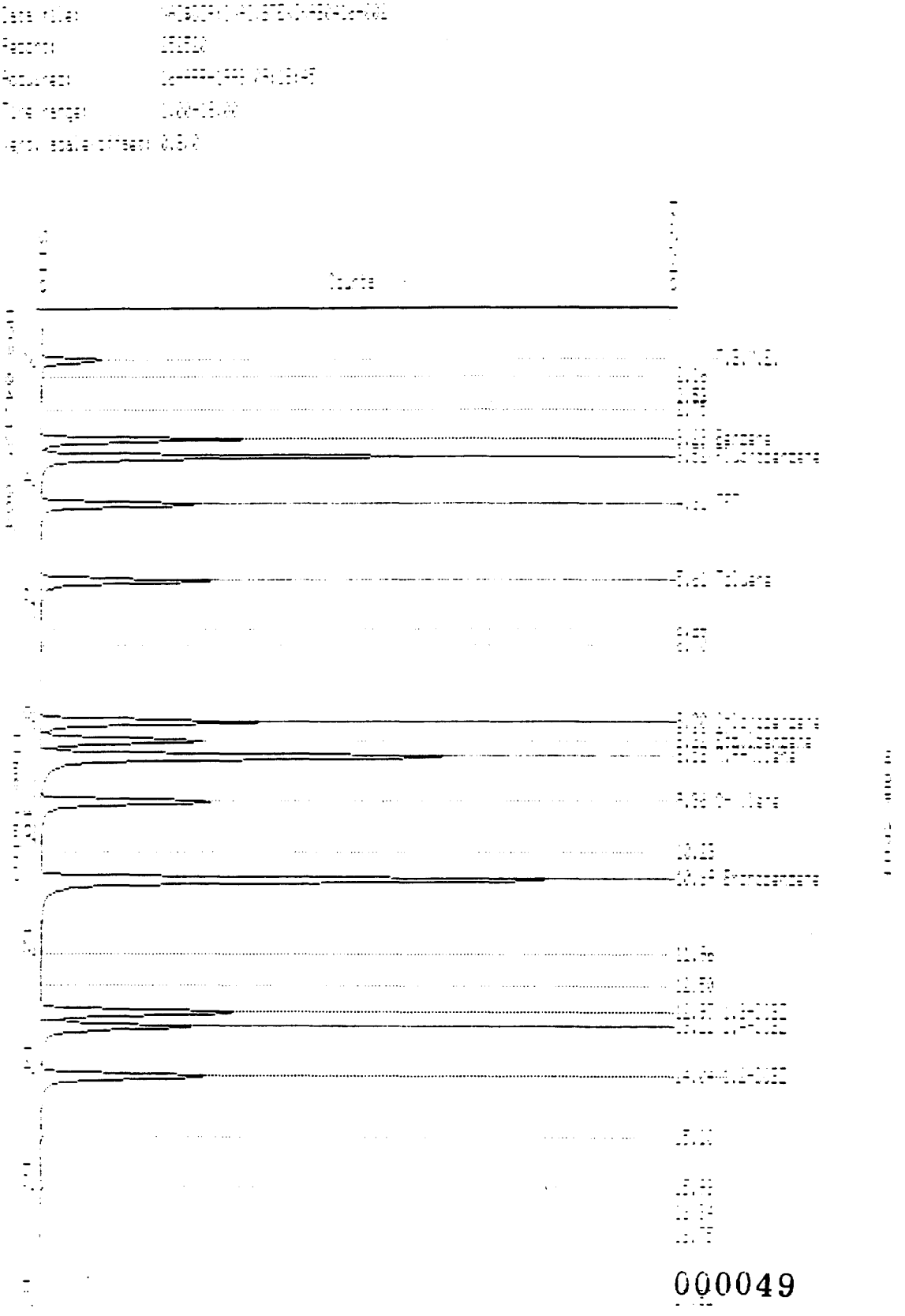
Client Name	: DAMES AND MOORE	Work Order	: H93-04.125
Sample ID	: KAB0416-002	Date Received	: 16-APR-1993
Sample Name	: H93-04.125-004	Matrix	: WATER
Project No.	: 18804	Date Collected	: 14-APR-1993
Checked by	: MJM	Client ID	: BLANK SPIKE

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 16-APR-1993 09:18 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	24
108-88-3	Toluene	3.0	23
100-41-4	Ethylbenzene	3.0	25
106-42-3	Total Xylenes	3.0	75

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.



Chester LabNet - HOUSTON

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1,2-DCBZ	14.045	-0.59	15.655	321595	[illegible]	.8
	15.100			5731		EV
	15.932			4620		EV

Total: 4947670

011985

011985

011986

GC/MS Tuning and Mass Calibration

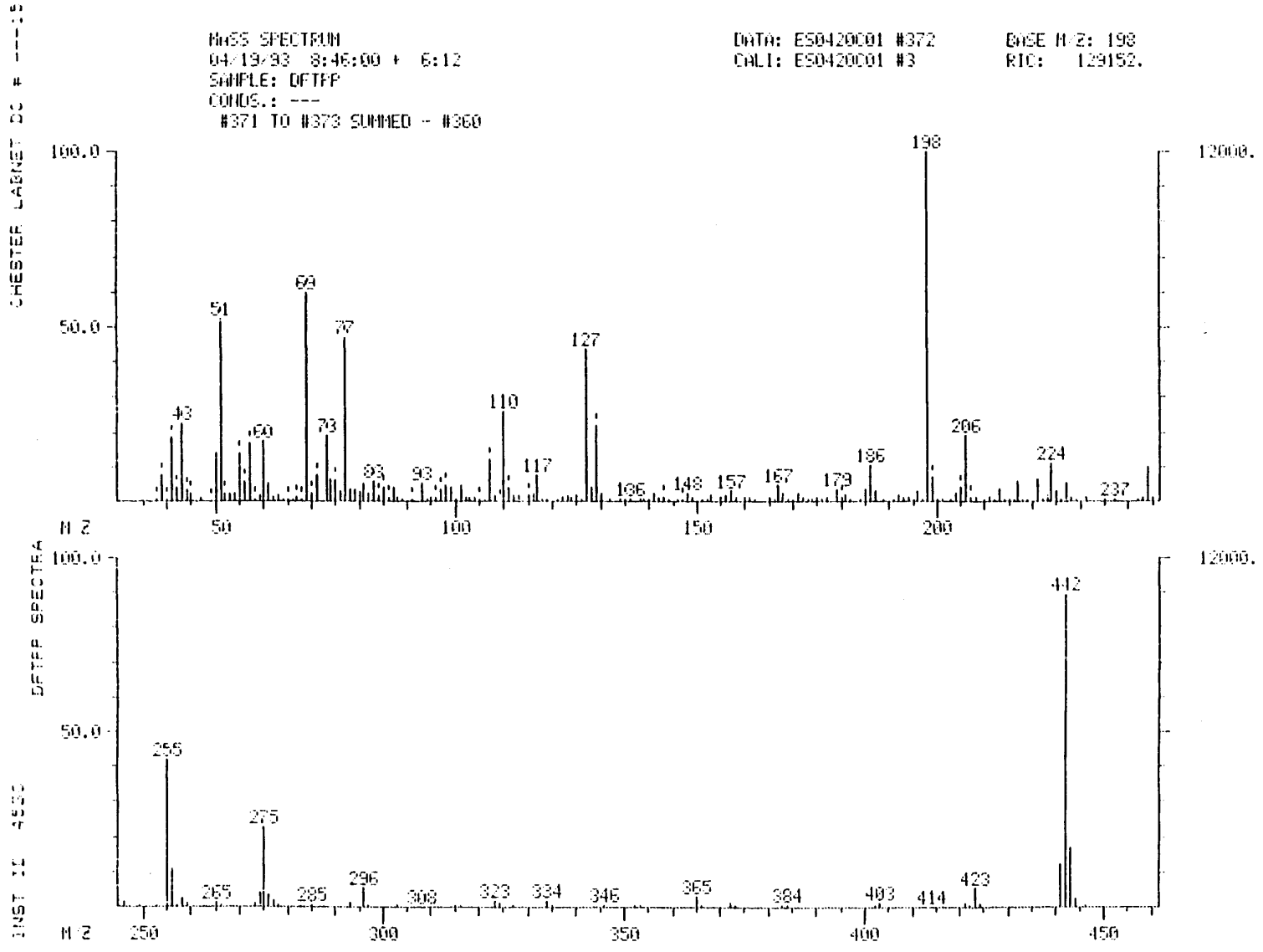
DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	--	Laboratory:	CHESTER	Contract:	---
Inst ID:	4530	Sens Date:	04/19/93	Sens Time:	8:46:00
Lab ID:	ES0420C01	Cali Date:	04/17/93	Analyst:	SC

Data release authorized by: Sheila Cheng

M/E	Ion Abundance Criteria	Spec # 371	
51	30 to 60% of mass 198	51.40	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	59.00	
70	less than 2% of mass 69	0.00	(0.00) 1
127	40 TO 60% of mass 198	43.87	
197	less than 1% of mass 198	0.49	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	8.07	
275	10 TO 30% of mass 198	22.73	
365	greater than 1% of mass 198	3.12	
441	less than mass 443	12.20	
442	greater than 40% of mass 198	89.73	
443	17 TO 23% of mass 442	16.75	(18.67) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442



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011987

011987

INST ID: 4530 CHESTER LABNET DI # ---15

DFTPP MASS LISTING

Mass List Data: ES0420C01 # 372 Base m/z: 198

04/19/93 8:46.00 + 6:12 Cali: ES0420C01 # 3 RIC: 125952.

Sample: DFTPP

Conds.: ---

#371 to #373 summed - #365

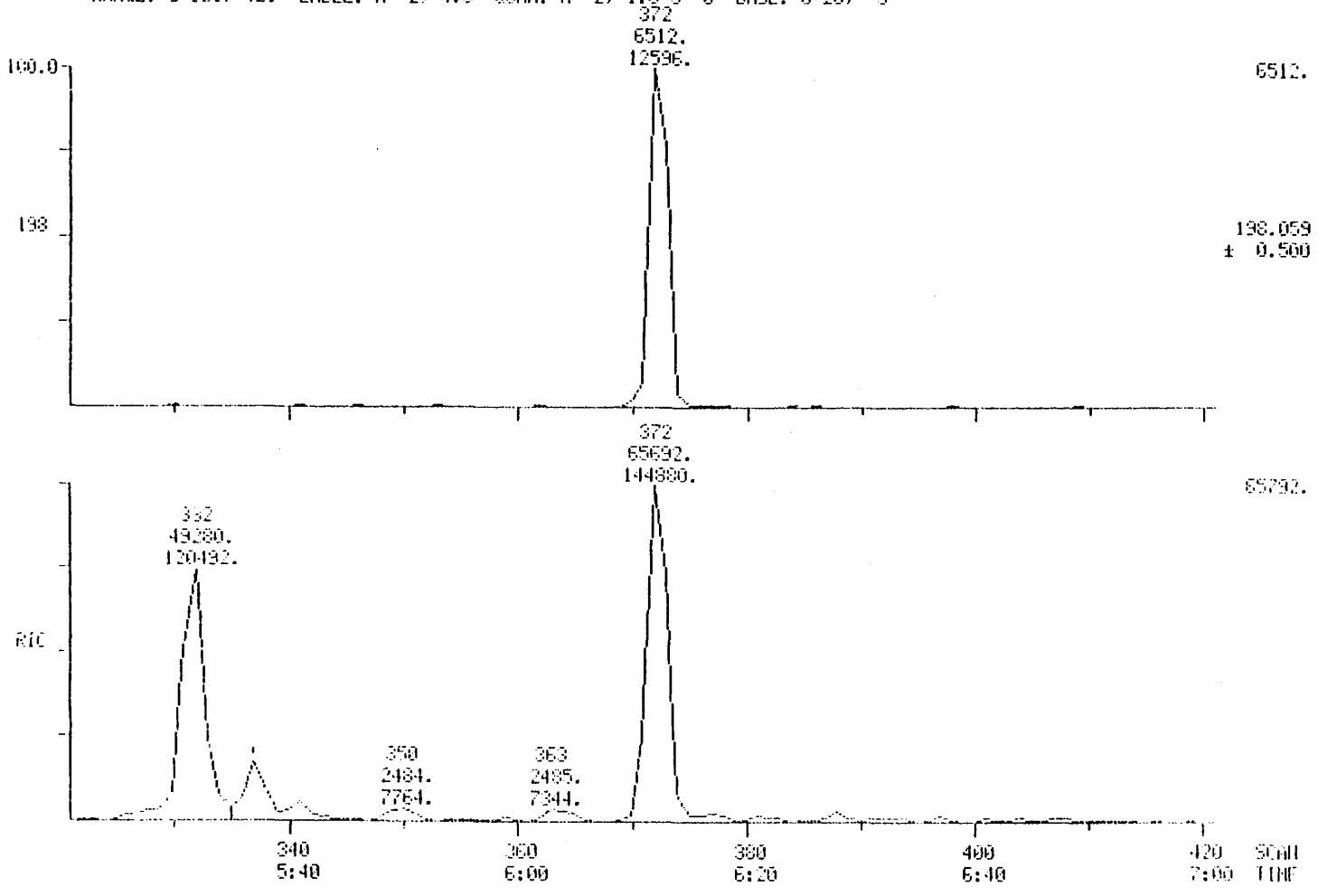
36		0.00	0.	Minima	Min Inten.		166.
446				Maxima	# 0		
Mass		% RA	Inten.	Mass		% RA	Inten.
36.00?	S	1.68	202.	143.00		2.08	250.
39.00?	S	6.37	764.	147.00		1.44	173.
41.00	S	15.35	1842.	148.00	S	1.69	203.
42.00	S	2.94	353.	156.00		1.71	205.
43.00	S	20.43	2452.	157.00		3.03	364.
45.00	S	3.02	362.	167.00		4.58	550.
50.00		13.70	1644.	168.00		2.38	286.
51.00	S	51.40	6168.	171.00		2.49	299.
52.00	S	2.27	272.	175.00		1.42	170.
55.00	S	11.93	1432.	179.00		3.34	401.
56.00	S	4.97	596.	181.00		1.58	190.
57.00	S	17.47	2096.	185.00		3.54	425.
59.00		1.61	193.	186.00		10.63	1276.
60.00		18.07	2168.	187.00		3.13	376.
61.00	S	4.23	508.	192.00		1.53	184.
69.00	S	59.00	7080.	193.00		1.39	167.
71.00	S	7.17	860.	196.00		2.97	357.
73.00	S	19.03	2284.	198.00		100.00	12000.
74.00	S	5.37	644.	199.00		8.07	969.
75.00		7.49	899.	205.00		4.67	561.
76.00		2.64	317.	206.00		18.93	2272.
77.00	S	47.13	5656.	207.00	S	1.75	210.
78.00		3.62	435.	211.00		1.42	170.
79.00		3.48	418.	213.00		3.40	408.
80.00		2.75	330.	217.00		6.00	720.
81.00		5.15	618.	221.00		6.56	787.
83.00	S	4.92	590.	223.00		1.63	196.
85.00		5.36	643.	224.00		11.33	1360.
87.00	S	3.24	389.	225.00		2.93	352.
93.00		5.00	600.	227.00		5.31	637.
97.00	S	3.18	382.	244.00		10.05	1206.
98.00	S	4.22	506.	246.00		1.46	175.
99.00		4.14	497.	255.00		42.07	5048.
101.00		4.39	527.	256.00		11.30	1356.
105.00		1.42	171.	258.00		2.44	293.
107.00		13.25	1590.	273.00		1.42	170.
108.00		1.83	220.	274.00		3.97	476.
110.00	S	24.57	2948.	275.00		22.73	2728.
111.00	S	3.36	403.	276.00		3.72	447.
112.00		1.48	178.	277.00		1.78	214.
115.00	S	2.19	263.	296.00		5.50	660.
116.00		2.21	265.	323.00		1.99	239.
117.00		7.62	915.	334.00		1.82	219.
125.00		1.57	188.	365.00		3.12	374.
127.00		43.87	5264.	372.00		1.39	167.
128.00		3.87	465.	423.00		5.07	609.
129.00		23.40	2808.	441.00		12.20	1464.
130.00		2.45	294.	442.00		89.73	10768.
135.00		1.82	218.	443.00		16.75	2010.
141.00		2.44	293.	444.00		2.15	258.

011988

000053

011988

RIC+MASS CHROMATOGRAM DATA: ES0420C01 #371 SCANS 321 TO 421
04/19/93 8:46:00 CALI: ES0420C01 #3
SAMPLE: OFTPP
CONDS.: ---
RANGE: G 321, 421 LABEL: N 2, 4.0 DOWN: A 2, 1.0 J 0 BASE: U 20, 3



011989

TABLE 2
PROPOSED SAMPLE NUMBERS AND ANALYSIS FOR PRE-TREATMENT WATER TEST

SAMPLE TYPE	MEDIUM	PROPOSED NUMBER OF SAMPLES	ANALYTICAL TECHNIQUE	ANALYSIS/ EPA METHOD*	DQO LEVEL	FIELD EQUIPMENT WASH BLANKS	TRIP BLANKS	FIELD DUPLICATE
Soil washing wastewater prior to discharge to groundwater treatment plant	Water	1 (3)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr, Cu, Zn, Pb (6010)	III	1	1	1
Recycled Wash Water	Water	5 (4)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr	III	1	1	1

* EPA Method and SW 846 Test Methods for Evaluating Solid Waste, 3rd ed., 1987.

Notes:

(1) Field equipment wash blanks and field duplicates do not apply to the following physical/conventional parameters (pH, COD, TDS).

(2) Trip blank analyzed for BTEX only.

(3) Assumes one discharge to the groundwater treatment plant during the soil washing demonstration test.

(4) Daily composite of grab samples collected every 2 hours.

011990

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 16-APR-1993

PRIORITY

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.125
Due Date : 19-APR-1993
Date Rec'd : 16-APR-1993
Project ID :
P.O. Number: 18804

Attention: Contact: BRUCE HICKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 4 Sampled by: CLIENT

Job Comments:
RUSH!!72 HOUR TURNAROUND. RESULTS DUE BY 4/19/93. MS_SV:FOR SV_TCL, PLEASE ANALYZE FOR PAH'S.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Ant.	Sample Matrix	Date Sampled
125-001	LAB BLANK	QA_QC	LIQUID	14-APR-93
125-002	SC-RW-G	1	LIQUID	14-APR-93
125-003	TRIP BLANK 1	1	LIQUID	14-APR-93
125-004	BLANK SPIKE	QA_QC	LIQUID	14-APR-93

Analysis ID	Parameter Description	Number of Analyses
AS_ICP	Arsenic(ICP)	3
BTEX_8020	BTEX by Method 8020	4
COD	Chemical Oxygen Demand	3
CR	Chromium	3
EXT_8270	Extraction by EPA 8270	3
PH	Hydrogen ion activity (EPA 150.1)	2
SV_TCL	Semivolatiles (Target Compound List)	3
TDS	Total Dissolved Solids(EPA 160.1)	1
TOC	Total Organic Carbon	3
TSS	Total Suspended Solids	1

000056

011992

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Park Drive

Suite 320
Charlotte, NC. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID : S.CAVALCADE
P.O. NUMBER : 18804

WORK ORDER : H93-04.23
DATE RECEIVED : 2-APR-1993

011993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.23-001	LAB BLANK	1-APR-1993	WATER
H93-04.23-002	SC-RW-D	1-APR-1993	WATER

Analysis ID	Parameter Description
AS_ICP	Arsenic(ICP)
BTEX_8020	BTEX by Method 8020
COD	Chemical Oxygen Demand
CR	Chromium
EXT_8270	Extraction by EPA 8270
PH	Hydrogen ion activity (EPA 150.1)
SV_TCL	Semivolatiles (Target Compound List)
TDS	Total Dissolved Solids(EPA 160.1)
TOC	Total Organic Carbon
TSS	Total Suspended Solids

011994

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-04.23

I. RECEIPT

A. DATE: APR. 01, 1993

B. NO. OF SAMPLES: (1) SAMPLE.

C. CLIENT ID NUMBERS: SC-WR-D

D. SAMPLE TYPE: Recycled Wash Water

E. ANALYSIS REQUESTED: pH; TOC; COD; TSS; TDS;
cPAH(8270); BTEX(8020);
Metals- As(7060), Cr(6010).

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample (SV ONLY) in each Work Order. First Organics Analysis Data Sheet contains cPAH follow with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.
Delay of Semi-volatile data (cPAH) due to GC/MS downtime.

I. COMMENTS:

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 26, 1993

Date

00000

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number: 18804

Project Location: South Cambridge

Laboratory: Chester

Sampler(s): Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	PSA SPAH	PH (150.1)	TOC (415.1)	COD (410.1)	TSS (160.2)	TDS (160.1)	c-PAH (8270)	BTEX (8020)	As (7060)	CC	TOTAL
SC-W7(SD)D	4/1/93	X										
SC-W7(SSD)D		X										
SC-W7(MCD)D		X										
SC-W7(Cl/Cr)D		X										
[redacted]												
SC-WA(DWC)C	4/1/93	X										
SC-RW-D	4/1/93		X	X	X	X	X	X	X	X	X	

Relinquished by: W. Wright	Organization: Dames & Moore	Date: 4/2/93	Time 2:45	Seal Intact?
Received by: Heather Warnow	Organization: CHESTER ENVIRONMENTAL	Date: 4/2/93	Time 2:45	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks:

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____ spec

011995

Keystone Lab - Houston
Water Surrogate Recovery Summary
Keystone Work Order # H93-04.23

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	85	85	83	NA	NA	NA	NA	NA
SC-RW-D	DL	DL	DL	NA	NA	NA	NA	NA

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	35-114	S2 (FBP) = 2-Fluorobiphenyl	43-116
S3 (TPH) = Terphenyl-d14	33-141	S4 (PHL) = Phenol-d5	10-110
S5 (2FP) = 2-Fluorophenol	21-110	S6 (TBP) = 2,4,6-Tribromophenol	10-123
S7 (2CP) = 2-Chlorophenol-d4	33-110**	S8 (DCB) = 1,2-Dichlorobenzene-d4	16-110**

0 out of 3 : outside of QC limits.

* = Values are outside of QC limits

** = Advisory QC Limits

NA = Not Applicable
DL = Diluted Out

C H E S T E R L A B N E T - H O U S T O N

WATER SURROGATE RECOVERY SUMMARY

Client Name: Dames & Moore
Chester LabNet Work Order # H93-04.23

CLIENT SAMPLE NUMBER	TFT % RECOVERY
1. LAB BLANK	100
2. SC-RW-D	88

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

TFT = TRIFLUOROTOLUENE

ADVISORY QC LIMITS (65 - 120%)

000001

Summary of Analytical Results

Date received: 2-APR-1993 Customer: Dames and Moore Job name: H93-04.23

		Samples	
Chester LabNet ID		23-001	23-002
Sampling Point		QA_QC	X
Date Sampled		1-APR-1993	1-APR-1993
Customer ID		LAB BLANK	SC-MW-D
Parameters	Units		
METALS			
Arsenic	µg/L	<37.0	<37.0
Chromium	µg/L	<4.0	19.0
BTEX 8020			
Benzene	µg/L	<2.0	<100
Toluene	µg/L	<3.0	<150
Ethyl Benzene	µg/L	<3.0	<150
Total Xylenes	µg/L	<3.0	<150
CONVENTIONAL CHEMISTRIES			
Chemical Oxygen Demand	mg/L	<20.0	5400
pH	pH units	7.04	7.22
Total Dissolved Solids	mg/L	<10.0	2740
Total Organic Carbon	mg/L	<1.0	634
Total Suspended Solids	mg/L	<2.0	300

INST ID: 4010

SAMPLE NUMBER: SC-RW-D

011999

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930402302
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/2/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/5/93
DATE ANALYZED: 04/07/93

DATAFILE: 9U04023C02
DILUTION FACTOR: 1000

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10000 U	
C740	CHRYSENE	10000 U	
C765	BENZO(B)FLUORANTHENE	10000 U	
C770	BENZO(K)FLUORANTHENE	10000 U	
C775	BENZO(A)PYRENE	10000 U	
C780	INDENO(1,2,3-CD)PYRENE	10000 U	
C785	DIBENZO(A,H)ANTHRACENE	10000 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4910

SAMPLE NUMBER: SC-RW-D

012000

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930402302
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/2/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/5/93
DATE ANALYZED: 04/07/93

DATAFILE: 9U04023C02
DILUTION FACTOR: 1000

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10000	4000 J
C540	ACENAPHTHYLENE	10000 U	
C550	ACENAPHTHENE	10000	670 J
C590	FLUORENE	10000	590 J
C640	PHENANTHRENE	10000	1500 J
C645	ANTHRACENE	10000	180 J
C655	FLUORANTHENE	10000	350 J
C715	PYRENE	10000	190 J
C730	BENZO(A)ANTHRACENE	10000 U	
C740	CHRYSENE	10000 U	
C765	BENZO(B)FLUORANTHENE	10000 U	
C770	BENZO(K)FLUORANTHENE	10000 U	
C775	BENZO(A)PYRENE	10000 U	
C780	INDENO(1,2,3-CD)PYRENE	10000 U	
C785	DIBENZO(A,H)ANTHRACENE	10000 U	
C790	BENZO(GHI)PERYLENE	10000 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

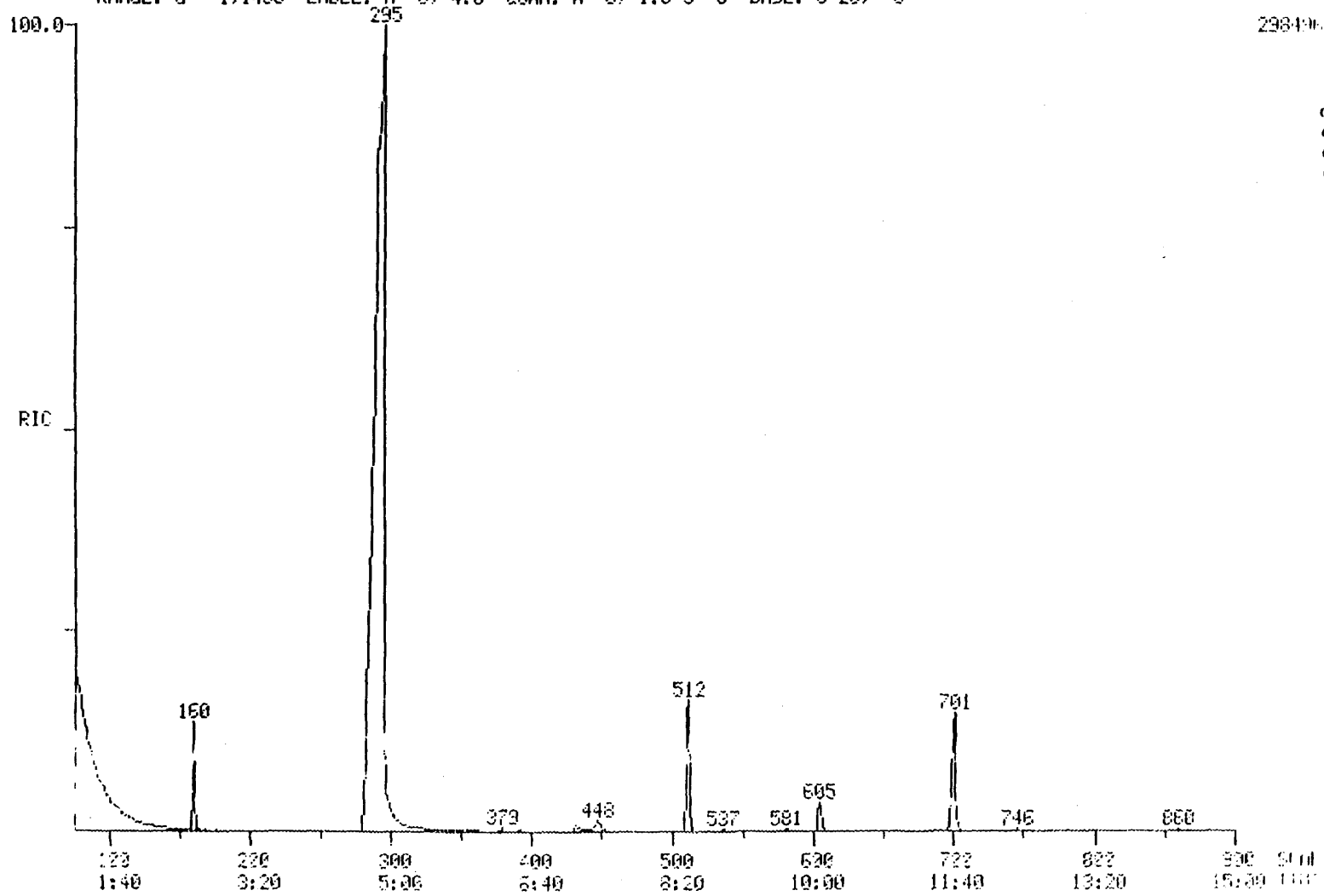
-14

CHESTER DC # ---

INST ID: 4010

RIC
04/07/93 17:06:00
SAMPLE: SC-RW-D
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04023C02 #1 SCANS 75 TO 900
CALI: 9U04023C02 #3



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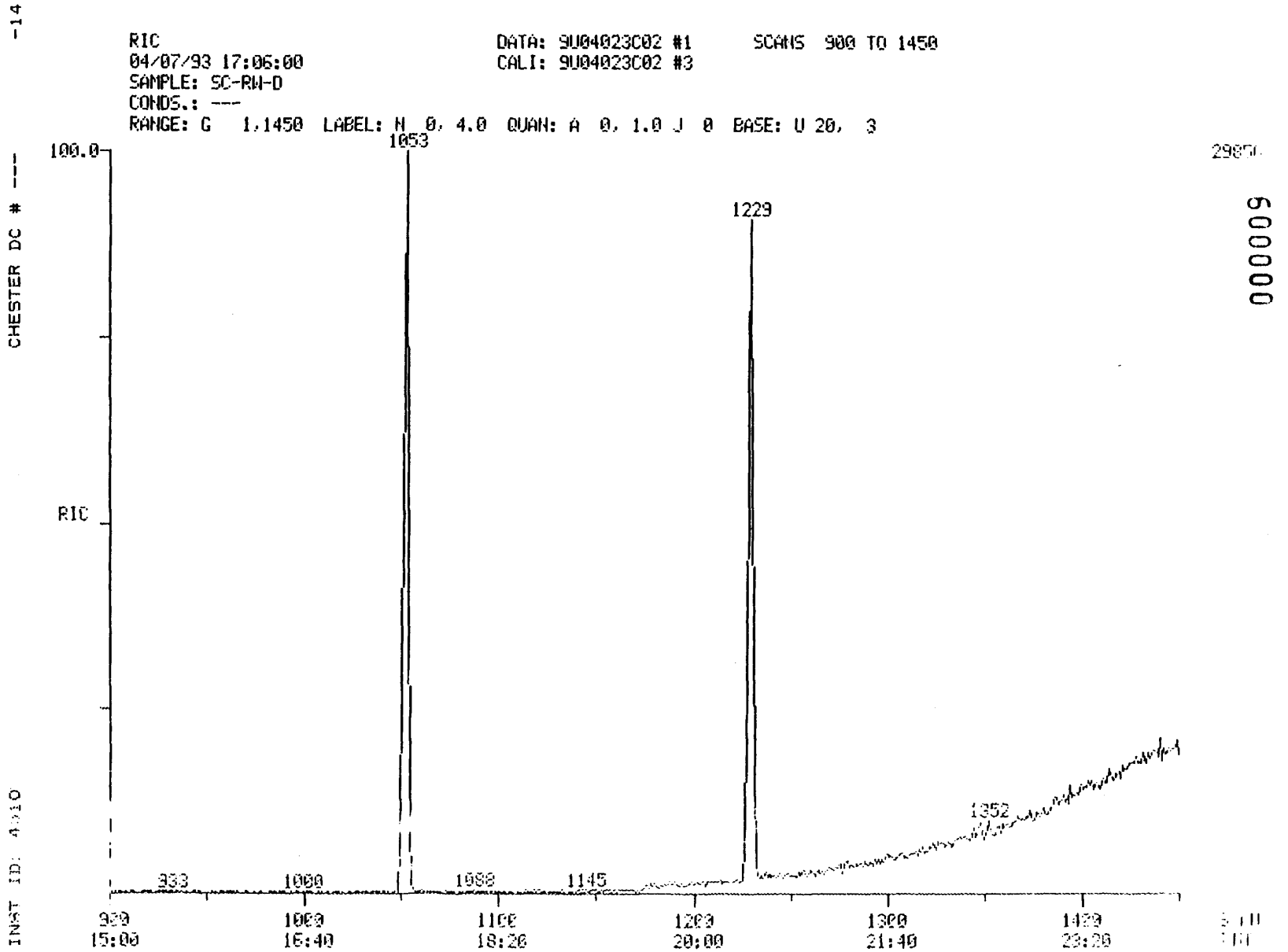
012001


-14
RIC
04/07/93 17:06:00
SAMPLE: SC-RW-D
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 9U04023C02 #1
CALI: 9U04023C02 #3
SCANS 900 TO 1450
CHESTER DC # ---
INST ID: 4010
100.0
RIC
1053
1229
1352
933
1000
1088
1145
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
000009

012002

012003

SEMIVOLATILE WATER REPORT

SAMPLE ID. SC-RW-D

FILENAME 9U04023C02 INST ID. 4510

CLIENT DAMES&MO ANALYST JDD

DATE INJECTED 04/07/93 17:06:00 VERIFIED BY SC

CALIB STD DATE 03/30/93 CORR. FACTOR 1000.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
160	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20000 UG/L	1.000	11334
291	CI40	NAPHTHALENE-D8 ** IS2 **	136	20000 UG/L	1.000	53012
511	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20000 UG/L	1.000	33811
701	CI60	PHENANTHRENE-D10 ** IS4 **	188	20000 UG/L	1.000	52134
1083	CI70	CHRYSENE-D12 ** IS5 **	240	20000 UG/L	1.000	31805
1289	CI75	PERYLENE-D12 ** IS6 **	264	20000 UG/L	1.000	28586
293	C450	NAPHTHALENE	128	3997 UG/L	1.007	11854
515	C550	ACENAPHTHENE	153	667 UG/L	1.008	1086
581	C590	FLUORENE	166	592 UG/L	1.137	1173
703	C640	PHENANTHRENE	178	1496 UG/L	1.003	4746
709	C645	ANTHRACENE	178	183 UG/L	1.011	628
860	C655	FLUORANTHENE	202	351 UG/L	1.227	1170
885	C715	PYRENE	202	191 UG/L	0.840	504

SURROGATE WERE DILUTE DOUT

Chester LabNet - HOUSTON

Reported on : 8-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.23
Sample ID	: KAB0407-021	Date Received	: 02-APR-1993
Sample Name	: H93-04.23-002 (1/50)	Matrix	: WATER
Project No.	: 18804	Date Collected	: 01-APR-1993
Checked by	: MJM	Client ID	: SC-RW-D

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 8-APR-1993 16:47 Dilution Factor : 50.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	100	100 U
108-88-3	Toluene	150	150 U
100-41-4	Ethylbenzene	150	150 U
106-42-3	Total Xylenes	150	150 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

Data file: NAI$DIR:[NAI.BTEX]KAB0407-021

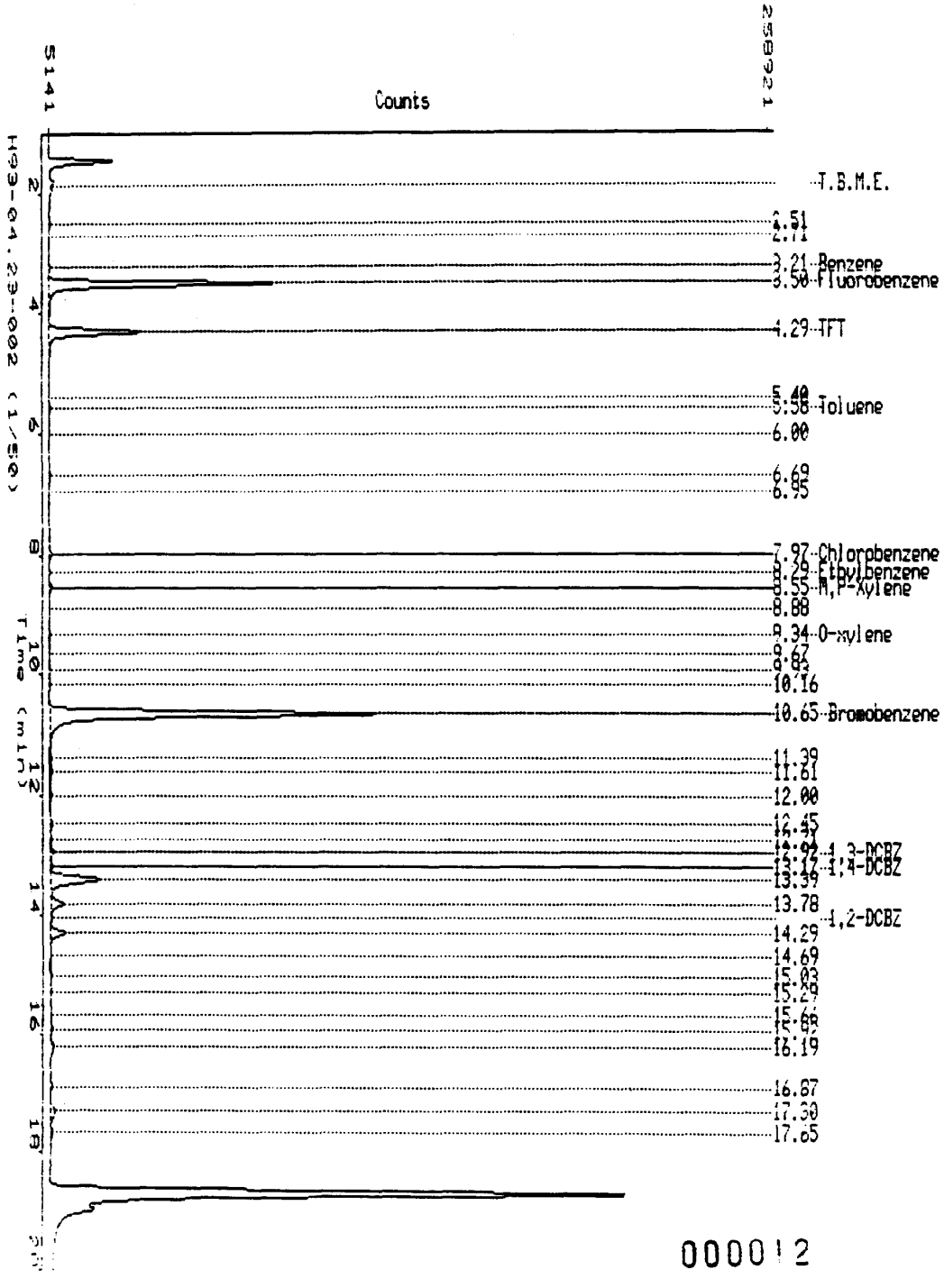
Report: 250801

Acquired: 8-APR-1993 16:47:05

Time range: 1.00-20.00

Vert. scale/offset: 0.8/0

012005



000012

Chester LabNet - HOUSTON

Date..... 8-APR-1993 17:34
Raw file..... KAB0407-021
Method file..... KBC0407-1A
Last method update.. 8-APR-1993 10:11
Device..... Channel 15A
Acq. date..... 8-APR-1993 16:47
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-RW-D

Report #... 250801
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID H93-04.23-002 (1/50)
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.211	-0.43	17.764	3194		1	BV	
Fluorobenzene	3.496	-0.50		444327		S1	VV	
TFT	4.288	-0.39	2188.788	208280	R	1	VE	
Toluene	5.581	-0.52	16.658	3104		1	EB	
	6.686			4415			BE	
Chlorobenzene	7.968	-0.67	24.402	5808		2	BB	
Ethylbenzene	8.285	-0.50	10.946	2019		2	BV	
M,P-Xylene	8.546	-0.53	25.503	6336		2	VE	
O-xylene	9.336	-1.06	19.338	4080		2	BE	
	9.931			2073			VV	
	10.161			2288			VB	
Bromobenzene	10.648	-0.68		798989		S2	BE	
	11.388			14398			EV	
	11.612			11436			EV	
	11.997			10238			EV	
	12.450			9993			VV	
	12.706			4445			VV	
1,3-DCBZ	12.920	-0.40	51.391	11799		2	VV	
1,4-DCBZ	13.166	-0.67	38.994	7686		2	VV	
	13.388			151103			VV	
	13.782			44722			VV	
	14.290			42120			VE	
	14.687			3444			EV	
	15.028			6168			EV	
	15.285			5571			VB	
	15.923			5830			BB	
	16.194			5458			BB	
	16.872			7708			BB	
	17.296			20360			BV	
	17.650			8891			VB	
Total:				1859730				

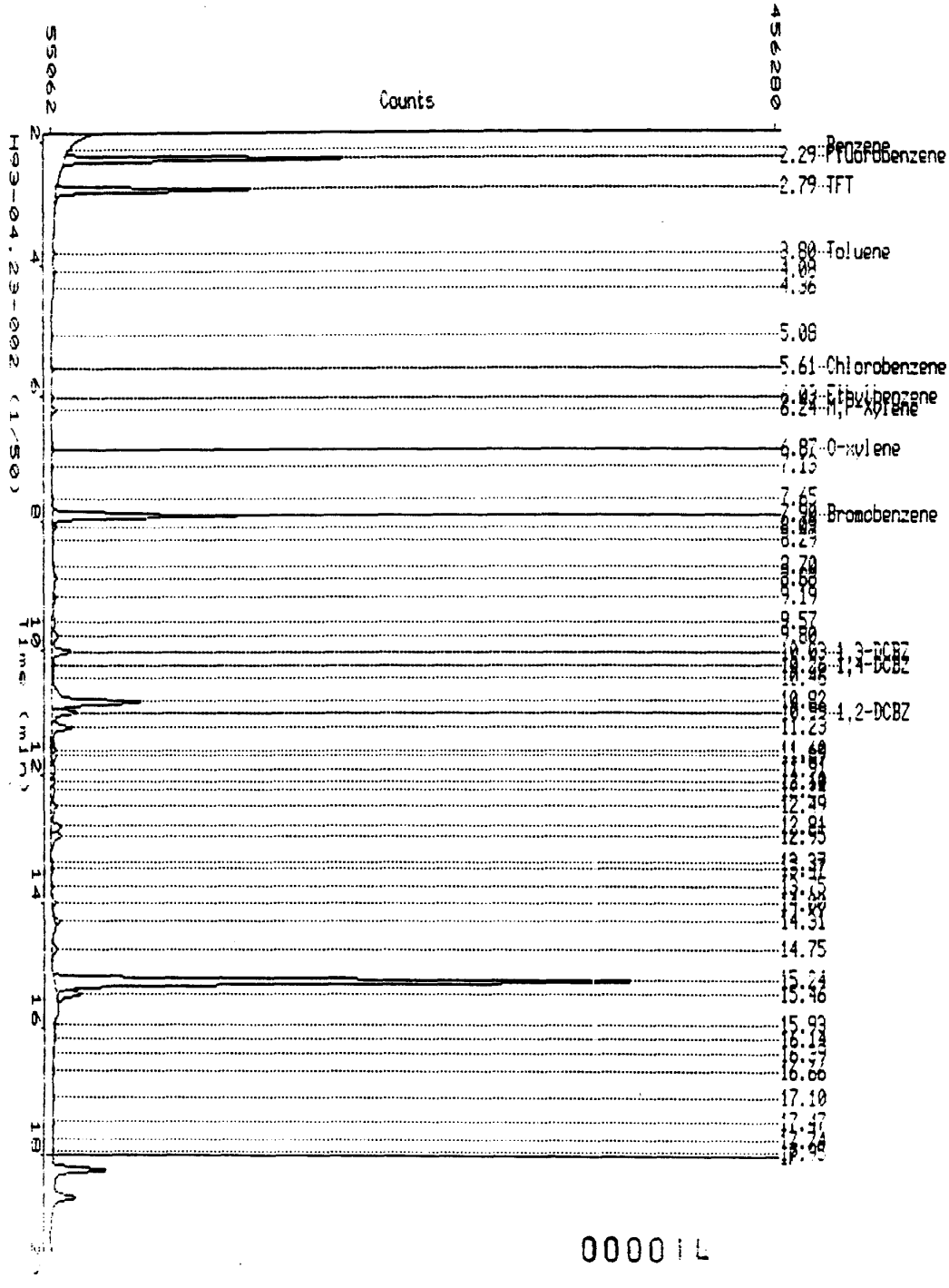
Data file: NAI$DIR:[NAI.BTEX]KBB0407-021

Report: 250803

Acquired: 8-APR-1993 16:47:06

Time range: 1.88-20.00

Vert. scale/offset: 0.8/0



012007

SC-RW-D

000011

Chester LabNet - HOUSTON

Date..... 8-APR-1993 17:36
Raw file..... KBB0407-021
Method file..... KBC0407-1B
Last method update.. 8-APR-1993 10:11
Device..... Channel 14A
Acq. date..... 8-APR-1993 16:47
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-RW-D

Report #... 250803
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID H93-04.23-002 (1/50)
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	1.535			2157468			BB	
Fluorobenzene	2.293	0.16		632203		S1	BB	
TFT	2.787	0.18	2273.316	450857	R	1	BB	
Toluene	3.802	0.48	26.399	6324		1	BV	
	4.084			11772			VV	
	4.355			2575			VB	
	5.083			2663			BB	
Chlorobenzene	5.609	0.41	34.124	7642		2	BB	
Ethylbenzene	6.028	0.44	18.018	5009		2	BB	
M,P-Xylene	6.245	0.48	36.387	11443		2	BB	
O-xylene	6.874	0.46	31.679	10497		2	BV	
	7.127			3960			VB	
	7.647			3071			BV	
Bromobenzene	7.899	0.33		481690		S2	VE	
	8.092			13716			EV	
	8.285			3618			EB	
	8.704			3072			BB	
	8.877			9282			BB	
	9.195			9883			BB	
	9.575			12205			BV	
	9.802			25266			VV	
1,3-DCBZ	10.030	3.33	297.414	59284		2	VE	
1,4-DCBZ	10.262	1.14	48.558	7971		2	EV	
	10.458			5402			EV	
	10.822			329065			VV	
1,2-DCBZ	10.990	-3.41	369.624	80197		2	VV	
	11.233			70042			VE	
	11.604			19054			EV	
	11.689			14144			EV	
	11.912			18195			VV	
	12.098			12298			VV	
	12.236			16145			VV	
	12.492			28600			VV	
	12.810			35966			VV	
	12.953			44650			VB	
	13.368			4665			BV	
	13.470			4359			VB	
	13.748			2037			BB	

14.004	11797	BB
14.312	17859	BB
14.748	17864	BB
15.240	1821585	BE
15.460	85541	EB
16.145	4870	BB
16.395	4526	BB
16.665	5038	BB
17.099	6740	BV
17.466	7019	VB
Total:	6604520	

012009

000016

012010

CALIBRATIONS

CHESTER LABNET-HOUSTON

000017

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --- CONTRACT LAB: KEYSTONE

CONTRACT NO. --- INSTRUMENT IDENTIFIER: 4510

CALIBRATION DATE: 03/30/93

STANDARD FILE: FS0407C02A

DATE: 04/07/93 TIME: 10:41

MAXIMUM % D FOR CCC IS 20

012011

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.911	1.950	2.088
C325	BIS(2-CHLOROETHYL)ETHE	1.904	1.654	-13.111
C330	2-CHLOROPHENOL	1.458	1.519	4.172
C335	1,3-DICHLOROBENZENE	1.510	1.563	3.494
C340	1,4-DICHLOROBENZENE	1.602	1.620	1.103
C345	BENZYL ALCOHOL	0.983	0.754	-23.320
C350	1,2-DICHLOROBENZENE	1.495	1.492	-0.239
C355	2-METHYLPHENOL	1.587	1.549	-2.412
C357	2,2'-OXYBIS(1-CHLOROPR	1.913	2.199	14.949
C365	4-METHYLPHENOL	1.690	1.681	-0.531
C370	N-NITROSODIPROPYLAMINE	1.146	1.306	13.945
C375	HEXACHLOROETHANE	0.629	0.612	-2.649
C410	NITROBENZENE	0.344	0.431	24.942
C415	ISOPHORONE	0.742	0.836	12.639
C420	2-NITROPHENOL	0.217	0.214	-1.721
C425	2,4-DIMETHYLPHENOL	0.309	0.325	5.045
C430	BENZOIC ACID	0.227	0.259	14.012
C435	BIS(2-CHLOROETHOXY)MET	0.537	0.494	-8.026
C440	2,4-DICHLOROPHENOL	0.280	0.292	4.342
C445	1,2,4-TRICHLOROBENZENE	0.279	0.292	4.747
C450	NAPHTHALENE	1.067	1.119	4.832
C455	4-CHLOROANILINE	0.391	0.358	-8.524
C460	HEXACHLOROBUTADIENE	0.106	0.111	4.589
C465	P-CHLORO-M-CRESOL	0.301	0.294	-2.241
C470	2-METHYLNAPHTHALENE	0.805	0.777	-3.458
C510	HEXACHLOROCYCLOPENTADI	0.234	0.220	-6.006
C515	2,4,6-TRICHLOROPHENOL	0.304	0.303	-0.278
C520	2,4,5-TRICHLOROPHENOL	0.331	0.370	11.605
C525	2-CHLORONAPHTHALENE	1.153	1.168	1.281
C530	2-NITROANILINE	0.330	0.411	24.838
C535	DIMETHYL PHTHALATE	1.226	1.167	-4.786
C540	ACENAPHTHYLENE	1.737	1.738	0.054
C545	3-NITROANILINE	0.338	0.350	3.660
C550	ACENAPHTHENE	0.989	0.963	-2.677
C555	2,4-DINITROPHENOL	0.169	0.156	-7.860
C560	4-NITROPHENOL	0.099	0.106	7.443
C565	DIBENZOFURAN	1.535	1.563	1.803
C570	2,4-DINITROTOLUENE	0.358	0.344	-3.938
C573	2,6-DINITROTOLUENE	0.358	0.402	12.309
C580	DIETHYL PHTHALATE	1.162	1.113	-4.226
C585	4-CHLOROPHENYL PHENYL	0.556	0.512	-7.862
C590	FLUORENE	1.195	1.172	-1.927
C595	4-NITROANILINE	0.326	0.306	-6.277
C610	4,6-DINITRO-2-METHYLPH	0.155	0.151	-2.525
C615	N-NITROSODIPHENYLAMINE	0.709	0.682	-3.856
C625	4-BROMOPHENYL PHENYL E	0.183	0.172	-5.615
C630	HEXACHLOROBENZENE	0.156	0.161	3.432
C635	PENTACHLOROPHENOL	0.110	0.097	-11.061
C640	PHENANTHRENE	1.200	1.217	1.449
C645	ANTHRACENE	1.222	1.314	7.558
C650	DI-N-BUTYL PHTHALATE	1.554	1.778	14.418
C655	FLUORANTHENE	1.084	1.277	17.778

C715	PYRENE	1.694	1.663	-1.808
C720	BUTYL BENZYL PHTHALATE	0.920	0.871	-5.258
C725	3,3'-DICHLOROBENZIDINE	0.383	0.368	-4.011
C730	BENZO(A)ANTHRACENE	1.386	1.391	0.375
C745	BIS(2-ETHYLHEXYL)PHTHA	1.272	1.333	4.796
C740	CHRYSENE	1.113	1.032	-7.291
C760	DI-N-OCTYL PHTHALATE	2.485	2.792	12.354
C765	BENZO(B)FLUORANTHENE	1.563	1.378	-11.822
C770	BENZO(K)FLUORANTHENE	1.250	1.166	-6.738
C775	BENZO(A)PYRENE	1.124	1.135	0.941
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.835	5.698
C785	DIBENZO(A,H)ANTHRACENE	0.808	0.817	1.076
C790	BENZO(GHI)PERYLENE	0.831	0.921	10.872
C310	N-NITROSODIMETHYLAMINE	1.075	0.700	-34.835
C620	1,2-DIPHENYL-HYDRAZINE	1.095	1.082	-1.185
CS70	2-CHLOROPHENOL-D4 ** S	1.828	2.013	10.117
CS75	1,2-DICHLOROBENZENE-D4	0.866	0.907	4.720
C647	CARBAZOLE	1.197	1.291	7.862
CS50	2-FLUOROPHENOL ** SU1	1.588	1.679	5.726
CS45	PHENOL-D5 ** SU2 **	1.977	2.062	4.262
CS55	2,4,6-TRIBROMOPHENOL	0.097	0.093	-4.338
CS20	NITROBENZENE-D5 ** SU3	0.342	0.435	27.151
CS25	2-FLUOROBIPHENYL ** SU	1.162	1.232	6.018
CS30	TERPHENYL-D14 ** SU6	1.230	1.411	14.681
BENZENETHIOL				
METHYL CHRYSENE				
QUINOLINE				
C720	1-METHYLNAPHTHALENE			
7,12-DIMETHYLBENZ(A)ANTHRACE				
DIBENZ(A,H)ACRIDINE				
3+4-METHYLPHENOL				
INDENE				
A950	PYRIDINE			
A953	2,6-DICHLOROPHENOL			
A987	2,5-DICHLOROPHENOL			
A988	3,4-DICHLOROPHENOL			
A989	2,3-DICHLOROPHENOL			
A990	3,5-DICHLOROPHENOL			
A991	1,3,5-TRICHLOROBENZENE			
A992	1,2,3-TRICHLOROBENZENE			

012012

CHESTER DC # ----17

012013

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0407C02A

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/07/93 10:41:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	160	40	20983	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	291	40	71614	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	511	40	37809	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	700	40	50743	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1052	40	39888	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1228	40	35649	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	85	50	44040	0.531	1.679
CS45	PHENOL-D5 ** SU2 **	99	159	50	54075	0.994	2.062
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	619	50	4380	1.211	0.093
CS20	NITROBENZENE-D5 ** SU3 **	82	217	50	38922	0.746	0.435
CS25	2-FLUOROBIPHENYL ** SU4 **	172	437	50	58228	0.855	1.232
CS30	TERPHENYL-D14 ** SU6 **	244	930	50	70355	0.884	1.411
C315	PHENOL	94	160	50	51159	1.000	1.950
C325	BIS(2-CHLOROETHYL)ETHER	93	149	50	43392	0.931	1.654
C330	2-CHLOROPHENOL	128	151	50	39840	0.944	1.519
C335	1,3-DICHLOROBENZENE	146	156	50	40987	0.975	1.563
C340	1,4-DICHLOROBENZENE	146	161	50	42490	1.006	1.620
C345	BENZYL ALCOHOL	108	186	50	19772	1.162	0.754
C350	1,2-DICHLOROBENZENE	146	177	50	39128	1.106	1.492
C355	2-METHYLPHENOL	108	213	50	40631	1.331	1.549
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	200	50	57668	1.250	2.199
C365	4-METHYLPHENOL	108	231	50	44100	1.444	1.681
C370	N-NITROSODIPROPYLAMINE	70	214	50	34258	1.337	1.306
C375	HEXACHLOROETHANE	117	205	50	16063	1.281	0.612
C410	NITROBENZENE	77	219	50	38539	0.753	0.431
C415	ISOPHORONE	82	249	50	74804	0.856	0.836
C420	2-NITROPHENOL	139	254	50	19114	0.873	0.214
C425	2,4-DIMETHYLPHENOL	107	284	50	29105	0.976	0.325
C430	BENZOIC ACID	122	323	50	23169	1.110	0.259
C435	BIS(2-CHLOROETHOXY)METHANE	93	285	50	44223	0.979	0.494
C440	2,4-DICHLOROPHENOL	162	294	50	26147	1.010	0.292
C445	1,2,4-TRICHLOROBENZENE	180	289	50	26130	0.993	0.292
C450	NAPHTHALENE	128	292	50	100151	1.003	1.119
C455	4-CHLOROANILINE	127	315	50	32048	1.082	0.358
C460	HEXACHLOROBUTADIENE	225	323	50	9970	1.110	0.111
C465	P-CHLORO-M-CRESOL	107	402	50	26362	1.381	0.294
C470	2-METHYLNAPHTHALENE	142	379	50	69533	1.302	0.777
C510	HEXACHLOROCYCLOPENTADIENE	237	412	50	10383	0.806	0.220
C515	2,4,6-TRICHLOROPHENOL	196	431	50	14311	0.843	0.303
C520	2,4,5-TRICHLOROPHENOL	196	445	50	17480	0.871	0.370
C525	2-CHLORONAPHTHALENE	162	438	50	55209	0.857	1.168
C530	2-NITROANILINE	65	468	50	19447	0.916	0.411
C535	DIMETHYL PHTHALATE	163	506	50	55171	0.990	1.167
C540	ACENAPHTHYLENE	152	489	50	82151	0.957	1.738
C545	3-NITROANILINE	138	525	50	16553	1.027	0.350
C550	ACENAPHTHENE	153	515	50	45500	1.008	0.963

012014

SV STANDARD REPORT PAGE 2

DATAFILE FS0407C02A

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	537	50	7376	1.051	0.156
C560	4-NITROPHENOL	109	592	50	5020	1.159	0.106
C565	DIBENZOFURAN	168	537	50	73852	1.051	1.563
C570	2,4-DINITROTOLUENE	165	557	50	16262	1.090	0.344
C543	2,6-DINITROTOLUENE	165	509	50	18992	0.996	0.402
C580	DIETHYL PHTHALATE	149	603	50	52603	1.180	1.113
C585	4-CHLOROPHENYL PHENYL ETHER	204	594	50	24217	1.162	0.512
C590	FLUORENE	166	581	50	55372	1.137	1.172
C595	4-NITROANILINE	138	606	50	14457	1.186	0.306
C610	4,6-DINITRO-2-METHYLPHENOL	198	609	50	9581	0.870	0.151
C615	N-NITROSODIPHENYLAMINE	169	615	50	43241	0.879	0.682
C625	4-BROMOPHENYL PHENYL ETHER	248	655	50	10933	0.936	0.172
C630	HEXACHLOROBENZENE	284	663	50	10223	0.947	0.161
C635	PENTACHLOROPHENOL	266	699	50	6178	0.999	0.097
C640	PHENANTHRENE	178	703	50	77189	1.004	1.217
C645	ANTHRACENE	178	709	50	83355	1.013	1.314
C650	DI-N-BUTYL PHTHALATE	149	823	50	112798	1.176	1.778
C655	FLUORANTHENE	202	860	50	80996	1.229	1.277
C715	PYRENE	202	885	50	82928	0.841	1.663
C720	BUTYL BENZYL PHTHALATE	149	1018	50	43447	0.968	0.871
C725	3,3'-DICHLOROBENZIDINE	252	1067	50	18348	1.014	0.368
C730	BENZO(A)ANTHRACENE	228	1051	50	69348	0.999	1.391
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1113	50	66461	1.058	1.333
C740	CHRYSENE	228	1055	50	51468	1.003	1.032
C760	DI-N-OCTYL PHTHALATE	149	1192	50	124410	0.971	2.792
C765	BENZO(B)FLUORANTHENE	252	1187	50	61409	0.967	1.378
C770	BENZO(K)FLUORANTHENE	252	1189	50	51946	0.968	1.166
C775	BENZO(A)PYRENE	252	1221	50	50566	0.994	1.135
C780	INDENO(1,2,3-CD)PYRENE	276	1341	50	37207	1.092	0.835
C785	DIBENZO(A,H)ANTHRACENE	278	1348	50	36415	1.098	0.817
C790	BENZO(GHI)PERYLENE	276	1363	50	41039	1.110	0.921
C620	1,2-DIPHENYL-HYDRAZINE						

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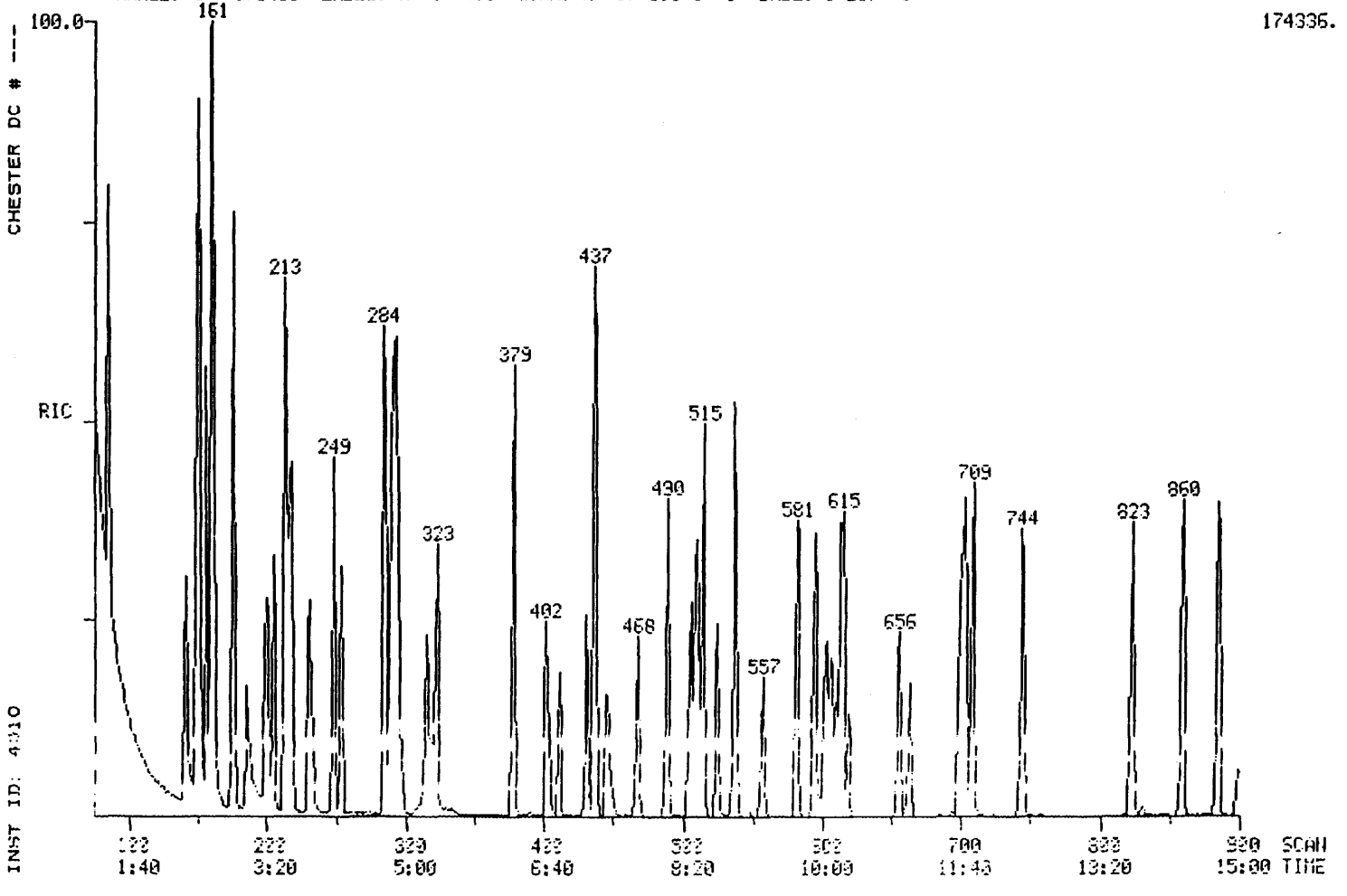
RIC
04/07/93 10:41:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0407C02A #1 SCANS 75 TO 900
CALI: FS0407C02A #3



CHESTER DC # ---

INST ID: 4010

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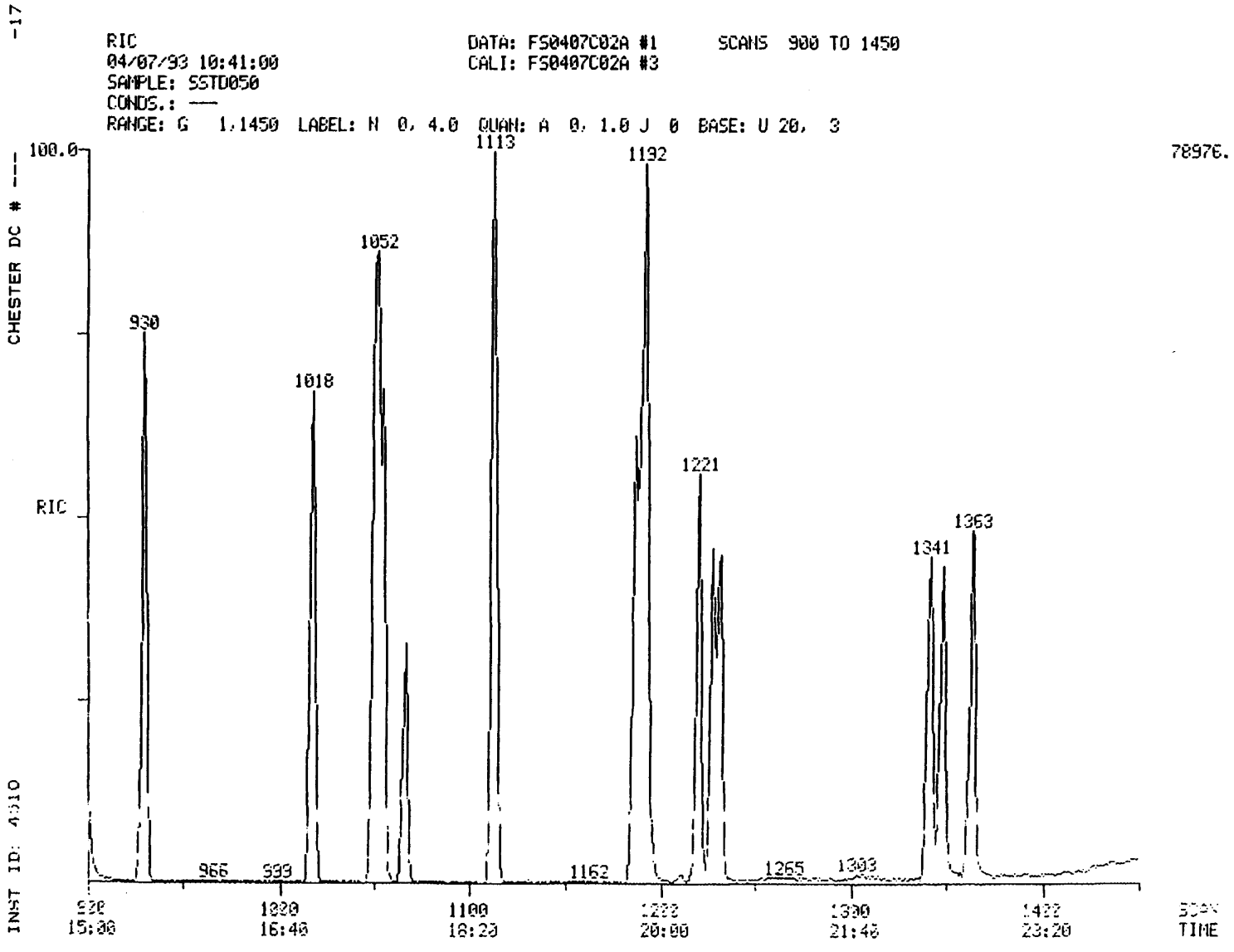

100023

012016

012016

Quantitation Report File: FS0407C02A

Data: FS0407C02A.TI
04/07/93 10:41:00
Sample: SSTD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT: AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

012017

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012018

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	160	2:40	1	1.000	A BB	20983.	40.000 UG/L	0.99
2	136	291	4:51	2	1.000	A BB	71614.	40.000 UG/L	0.99
3	164	511	8:31	3	1.000	M XX	37809.	40.000 UG/L	0.99
4	108	700	11:40	4	1.000	A BV	50743.	40.000 UG/L	0.99
5	240	1052	17:32	5	1.000	A BB	39888.	40.000 UG/L	0.99
6	264	1228	20:28	6	1.000	A BB	35649.	40.000 UG/L	0.99
7	112	85	1:25	1	0.531	A BB	44040.	50.000 UG/L	1.24
8	99	159	2:39	1	0.994	A BB	54075.	50.000 UG/L	1.24
9	330	619	10:19	3	1.211	A BB	4380.	50.000 UG/L	1.24
10	82	217	3:37	2	0.746	A BB	38922.	50.000 UG/L	1.24
11	172	437	7:17	3	0.855	A BB	58228.	50.000 UG/L	1.24
12	244	930	15:30	5	0.884	A BB	70355.	50.000 UG/L	1.24
13	94	160	2:40	1	1.000	A BB	51159.	50.000 UG/L	1.24
14	93	149	2:29	1	0.931	A VB	43392.	50.000 UG/L	1.24
15	128	151	2:31	1	0.944	A BB	39840.	50.000 UG/L	1.24
16	146	156	2:36	1	0.975	A BV	40987.	50.000 UG/L	1.24
17	146	161	2:41	1	1.006	A VB	42490.	50.000 UG/L	1.24
18	108	186	3:06	1	1.162	A BB	19772.	50.000 UG/L	1.24
19	146	177	2:57	1	1.106	A BB	39128.	50.000 UG/L	1.24
20	108	213	3:33	1	1.331	A BB	40631.	50.000 UG/L	1.24
21	45	200	3:20	1	1.250	A BB	57668.	50.000 UG/L	1.24
22	108	231	3:51	1	1.444	A BB	44100.	50.000 UG/L	1.24
23	70	214	3:34	1	1.337	A BB	34258.	50.000 UG/L	1.24
24	117	205	3:25	1	1.281	A BB	16063.	50.000 UG/L	1.24
25	77	219	3:39	2	0.753	A VB	38539.	50.000 UG/L	1.24
26	82	249	4:09	2	0.856	A BB	74804.	50.000 UG/L	1.24
27	139	254	4:14	2	0.873	A BB	19114.	50.000 UG/L	1.24
28	107	284	4:44	2	0.976	A BB	29105.	50.000 UG/L	1.24
29	122	323	5:23	2	1.110	A BB	23169.	50.000 UG/L	1.24
30	93	285	4:45	2	0.979	A BB	44223.	50.000 UG/L	1.24
31	162	294	4:54	2	1.010	A BB	26147.	50.000 UG/L	1.24
32	180	289	4:49	2	0.993	A BB	26130.	50.000 UG/L	1.24
33	128	292	4:52	2	1.003	A BB	100151.	50.000 UG/L	1.24
34	127	315	5:15	2	1.082	A BB	32048.	50.000 UG/L	1.24
35	225	323	5:23	2	1.110	A BB	9970.	50.000 UG/L	1.24
36	107	402	6:42	2	1.381	A BB	26362.	50.000 UG/L	1.24
37	142	379	6:19	2	1.302	A BB	69533.	50.000 UG/L	1.24
38	237	412	6:52	3	0.806	A BB	10383.	50.000 UG/L	1.24
39	196	431	7:11	3	0.843	A BB	14311.	50.000 UG/L	1.24
40	196	445	7:25	3	0.871	A BB	17480.	50.000 UG/L	1.24
41	162	438	7:18	3	0.857	A BB	55209.	50.000 UG/L	1.24
42	65	468	7:48	3	0.916	A BB	19447.	50.000 UG/L	1.24
43	163	506	8:26	3	0.990	A BV	55171.	50.000 UG/L	1.24
44	152	489	8:09	3	0.957	A BB	82151.	50.000 UG/L	1.24
45	138	525	8:45	3	1.027	A BB	16553.	50.000 UG/L	1.24
46	153	515	8:35	3	1.008	A BB	45500.	50.000 UG/L	1.24
47	184	537	8:57	3	1.051	A BB	7376.	50.000 UG/L	1.24
48	109	592	9:52	3	1.159	A BV	5020.	50.000 UG/L	1.24
49	168	537	8:57	3	1.051	A BB	73852.	50.000 UG/L	1.24
50	165	557	9:17	3	1.090	A BB	16262.	50.000 UG/L	1.24

012018

No	Rt(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:31	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:25	1.00	0.531	1.00	50.00	50.00	1.679	1.679	1.00
8	2:39	1.00	0.994	1.00	50.00	50.00	2.062	2.062	1.00
9	10:19	1.00	1.211	1.00	50.00	50.00	0.093	0.093	1.00
10	3:37	1.00	0.746	1.00	50.00	50.00	0.435	0.435	1.00
11	7:17	1.00	0.855	1.00	50.00	50.00	1.232	1.232	1.00
12	15:30	1.00	0.884	1.00	50.00	50.00	1.411	1.411	1.00
13	2:40	1.00	1.000	1.00	50.00	50.00	1.950	1.950	1.00
14	2:29	1.00	0.931	1.00	50.00	50.00	1.654	1.654	1.00
15	2:31	1.00	0.944	1.00	50.00	50.00	1.519	1.519	1.00
16	2:36	1.00	0.975	1.00	50.00	50.00	1.563	1.563	1.00
17	2:41	1.00	1.006	1.00	50.00	50.00	1.620	1.620	1.00
18	3:06	1.00	1.162	1.00	50.00	50.00	0.754	0.754	1.00
19	2:57	1.00	1.106	1.00	50.00	50.00	1.492	1.492	1.00
20	3:33	1.00	1.331	1.00	50.00	50.00	1.549	1.549	1.00
21	3:20	1.00	1.250	1.00	50.00	50.00	2.199	2.199	1.00
22	3:51	1.00	1.444	1.00	50.00	50.00	1.681	1.681	1.00
23	3:34	1.00	1.337	1.00	50.00	50.00	1.306	1.306	1.00
24	3:25	1.00	1.281	1.00	50.00	50.00	0.612	0.612	1.00
25	3:39	1.00	0.753	1.00	50.00	50.00	0.431	0.431	1.00
26	4:09	1.00	0.856	1.00	50.00	50.00	0.836	0.836	1.00
27	4:14	1.00	0.873	1.00	50.00	50.00	0.214	0.214	1.00
28	4:44	1.00	0.976	1.00	50.00	50.00	0.325	0.325	1.00
29	5:23	1.00	1.110	1.00	50.00	50.00	0.259	0.259	1.00
30	4:45	1.00	0.979	1.00	50.00	50.00	0.494	0.494	1.00
31	4:54	1.00	1.010	1.00	50.00	50.00	0.292	0.292	1.00
32	4:49	1.00	0.993	1.00	50.00	50.00	0.292	0.292	1.00
33	4:52	1.00	1.003	1.00	50.00	50.00	1.119	1.119	1.00
34	5:15	1.00	1.082	1.00	50.00	50.00	0.358	0.358	1.00
35	5:23	1.00	1.110	1.00	50.00	50.00	0.111	0.111	1.00
36	6:42	1.00	1.381	1.00	50.00	50.00	0.294	0.294	1.00
37	6:19	1.00	1.302	1.00	50.00	50.00	0.777	0.777	1.00
38	6:52	1.00	0.806	1.00	50.00	50.00	0.220	0.220	1.00
39	7:11	1.00	0.843	1.00	50.00	50.00	0.303	0.303	1.00
40	7:25	1.00	0.871	1.00	50.00	50.00	0.370	0.370	1.00
41	7:18	1.00	0.857	1.00	50.00	50.00	1.168	1.168	1.00
42	7:48	1.00	0.916	1.00	50.00	50.00	0.411	0.411	1.00
43	8:26	1.00	0.990	1.00	50.00	50.00	1.167	1.167	1.00
44	8:09	1.00	0.957	1.00	50.00	50.00	1.738	1.738	1.00
45	8:45	1.00	1.027	1.00	50.00	50.00	0.350	0.350	1.00
46	8:35	1.00	1.008	1.00	50.00	50.00	0.963	0.963	1.00
47	8:57	1.00	1.051	1.00	50.00	50.00	0.156	0.156	1.00
48	9:52	1.00	1.159	1.00	50.00	50.00	0.106	0.106	1.00
49	8:57	1.00	1.051	1.00	50.00	50.00	1.563	1.563	1.00
50	9:17	1.00	1.090	1.00	50.00	50.00	0.344	0.344	1.00

012019

012019

Quantitation Report File: FS0407C02A

Data: FS0407C02A.TI
04/07/93 10:41:00
Sample: SSTD050
Conds.: ---
Formula: 03/30/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT: AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	509	8:29	3	0.996	A BB	18992.	50.000 UG/L	1.24
52	149	603	10:03	3	1.180	A BB	52603.	50.000 UG/L	1.24
53	204	594	9:54	3	1.162	A BB	24217.	50.000 UG/L	1.24
54	166	581	9:41	3	1.137	A BB	55372.	50.000 UG/L	1.24
55	138	606	10:06	3	1.186	A BB	14457.	50.000 UG/L	1.24
56	198	609	10:09	4	0.870	A BB	9581.	50.000 UG/L	1.24
57	169	615	10:15	4	0.879	A BB	43241.	50.000 UG/L	1.24
58	248	655	10:55	4	0.936	A BB	10933.	50.000 UG/L	1.24
59	284	663	11:03	4	0.947	A BB	10223.	50.000 UG/L	1.24
60	266	699	11:39	4	0.999	A BB	6178.	50.000 UG/L	1.24
61	178	703	11:43	4	1.004	A BV	77189.	50.000 UG/L	1.24

012020

012021

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	709	11:49	4	1.013	A VB	83355.	50.000 UG/L	1.24
63	149	823	13:43	4	1.176	A BB	112798.	50.000 UG/L	1.24
64	202	860	14:20	4	1.229	A BB	80996.	50.000 UG/L	1.24
65	202	885	14:45	5	0.841	A BB	82928.	50.000 UG/L	1.24
66	149	1018	16:58	5	0.968	A BB	43447.	50.000 UG/L	1.24
67	202	1067	17:47	5	1.014	A BB	18348.	50.000 UG/L	1.24
68	228	1051	17:31	5	0.999	A BV	69348.	50.000 UG/L	1.24
69	149	1113	18:33	5	1.058	A BB	66461.	50.000 UG/L	1.24
70	228	1055	17:35	5	1.003	A VB	51468.	50.000 UG/L	1.24
71	149	1192	19:52	6	0.971	A BB	124410.	50.000 UG/L	1.24
72	202	1187	19:47	6	0.967	M XX	61409.	50.000 UG/L	1.24
73	202	1189	19:49	6	0.968	M XX	51946.	50.000 UG/L	1.24
74	202	1221	20:21	6	0.994	A BB	50566.	50.000 UG/L	1.24
75	276	1341	22:21	6	1.092	A BV	37207.	50.000 UG/L	1.24
76	278	1348	22:28	6	1.098	A VV	36415.	50.000 UG/L	1.24
77	276	1363	22:43	6	1.110	A BB	41039.	50.000 UG/L	1.24
78	74	33	0:33	1	0.206	A VB	18361.	50.000 UG/L	1.24
79	184	899	14:59	5	0.855	A BB	21533.	50.000 UG/L	1.24
80	132	150	2:30	1	0.937	A BB	52795.	50.000 UG/L	1.24
81	152	176	2:56	1	1.100	M XX	23783.	50.000 UG/L	1.24
82	167	744	12:24	4	1.063	A BB	81909.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:29	1.00	0.996	1.00	50.00	50.00	0.402	0.402	1.00
52	10:03	1.00	1.180	1.00	50.00	50.00	1.113	1.113	1.00
53	9:54	1.00	1.162	1.00	50.00	50.00	0.512	0.512	1.00
54	9:41	1.00	1.137	1.00	50.00	50.00	1.172	1.172	1.00
55	10:06	1.00	1.186	1.00	50.00	50.00	0.306	0.306	1.00
56	10:09	1.00	0.870	1.00	50.00	50.00	0.151	0.151	1.00
57	10:15	1.00	0.879	1.00	50.00	50.00	0.682	0.682	1.00
58	10:55	1.00	0.936	1.00	50.00	50.00	0.172	0.172	1.00
59	11:03	1.00	0.947	1.00	50.00	50.00	0.161	0.161	1.00
60	11:39	1.00	0.999	1.00	50.00	50.00	0.097	0.097	1.00
61	11:43	1.00	1.004	1.00	50.00	50.00	1.217	1.217	1.00
62	11:49	1.00	1.013	1.00	50.00	50.00	1.314	1.314	1.00
63	13:43	1.00	1.176	1.00	50.00	50.00	1.778	1.778	1.00
64	14:20	1.00	1.229	1.00	50.00	50.00	1.277	1.277	1.00
65	14:45	1.00	0.841	1.00	50.00	50.00	1.663	1.663	1.00
66	16:58	1.00	0.968	1.00	50.00	50.00	0.871	0.871	1.00
67	17:47	1.00	1.014	1.00	50.00	50.00	0.368	0.368	1.00
68	17:31	1.00	0.999	1.00	50.00	50.00	1.391	1.391	1.00
69	18:33	1.00	1.058	1.00	50.00	50.00	1.333	1.333	1.00
70	17:35	1.00	1.003	1.00	50.00	50.00	1.032	1.032	1.00
71	19:52	1.00	0.971	1.00	50.00	50.00	2.792	2.792	1.00
72	19:47	1.00	0.967	1.00	50.00	50.00	1.378	1.378	1.00
73	19:49	1.00	0.968	1.00	50.00	50.00	1.166	1.166	1.00
74	20:21	1.00	0.994	1.00	50.00	50.00	1.135	1.135	1.00
75	22:21	1.00	1.092	1.00	50.00	50.00	0.835	0.835	1.00
76	22:28	1.00	1.098	1.00	50.00	50.00	0.817	0.817	1.00
77	22:43	1.00	1.110	1.00	50.00	50.00	0.921	0.921	1.00
78	0:33	1.00	0.206	1.00	50.00	50.00	0.700	0.700	1.00
79	14:59	1.00	0.855	1.00	50.00	50.00	0.432	0.432	1.00
80	2:30	1.00	0.937	1.00	50.00	50.00	2.013	2.013	1.00
81	2:56	1.00	1.100	1.00	50.00	50.00	0.907	0.907	1.00
82	12:24	1.00	1.063	1.00	50.00	50.00	1.291	1.291	1.00

012021

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 07-APR-1993
5L Method File Name. kbp0318-1a.met
CC Method File Name. kbc0407-1a.met
Instrument..... Hewlett-Packard 5890
Operator..... BEDO CASTRO

Compound	MEAN RCF(i)	RSD RCF(0)	% D
T.B.M.E.	0.32385	0.30617	-5.458
Benzene	1.03506	1.01165	-2.261
Fluorobenzene	14248.600	12114.380	-14.978
TFT	0.51982	0.53540	+2.997
Toluene	1.07745	1.04842	-2.694
Chlorobenzene	0.79249	0.74473	-6.026
Ethylbenzene	0.61589	0.57712	-6.296
M,P-Xylene	0.79692	0.77737	-2.454
O-xylene	0.69472	0.66017	-4.974
Bromobenzene	25774.469	22549.920	-12.511
1,3-DCBZ	0.65650	0.71838	+9.427
1,4-DCBZ	0.64067	0.61674	-3.735
1,2-DCBZ	0.62775	0.66057	+5.228

% D must be less than or equal to 15.0% for quantitation, and less than 20.0% for conformation

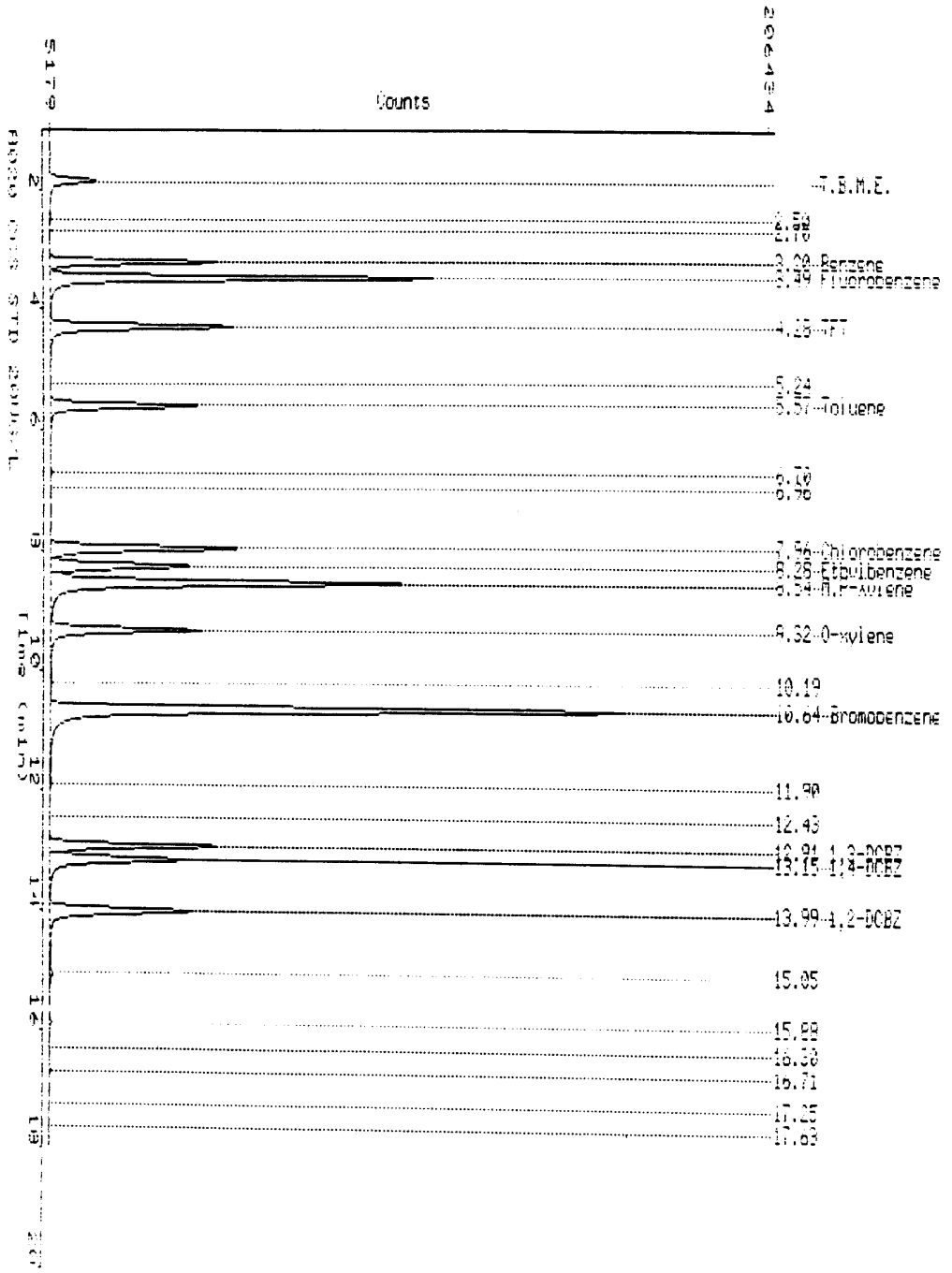
Data file: NAI$DIR:[NAI.ETEX]KAB0407-001

Report: 250453

Acquired: 7-APR-1992 17:36:49

Time range: 1.00-20.00

Vert. scale/offset: 0.8/0



012023

Chester LabNet - HOUSTON

Date..... 8-APR-1993 09:52
Raw file..... KAB0407-001
Method file..... KBC0407-1A
Last method update.. 8-APR-1993 09:52
Device..... Channel 15A
Acq. date..... 7-APR-1993 17:36
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... 8020 CCS STD

Report #... 250600
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 4
Lab ID .... 8020 CCS STD 20UG/L
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 CCS STD 20UG/L

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.204	1.01E+00	20.000	245111		1		
Fluorobenzene	3.488	1.00E+00	50.000	605719		S1		
TFT	4.281	5.35E-01	50.000	324304	R	1		
Toluene	5.572	1.05E+00	20.000	254019		1		
Chlorobenzene	7.957	7.45E-01	20.000	335874		2		
Ethylbenzene	8.277	5.77E-01	20.000	260276		2		
M,P-Xylene	8.537	7.77E-01	40.000	701183		2		
O-xylene	9.318	6.60E-01	20.000	297734		2		
Bromobenzene	10.637	1.00E+00	50.000	1127496		S2		
1,3-DCBZ	12.913	7.18E-01	20.000	323990		2		
1,4-DCBZ	13.155	6.17E-01	20.000	278150		2		
1,2-DCBZ	13.990	6.61E-01	20.000	297916		2		

00003

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 07-APR-1993
5L Method File Name. kbp0318-1b.met
CC Method File Name. kbc0407-1b.met
Instrument..... Hewlett-Packard 5890
Operator..... BC

Compound	MEAN RCF(i)	RSD RCF(0)	% D
Benzene	0.85205	0.83611	-1.871
Fluorobenzene	11725.724	15619.860	+33.210
TFT	0.79993	0.78426	-1.958
Toluene	1.06093	0.94728	-10.712
Chlorobenzene	1.23868	1.16230	-6.166
Ethylbenzene	1.54070	1.44285	-6.351
M,P-Xylene	1.62263	1.63217	+0.588
O-xylene	1.76283	1.71973	-2.445
Bromobenzene	9460.062	11732.900	+24.026
1,3-DCBZ	1.06666	1.03454	-3.011
1,4-DCBZ	0.88654	0.85198	-3.898
1,2-DCBZ	1.13511	1.12608	-0.796

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

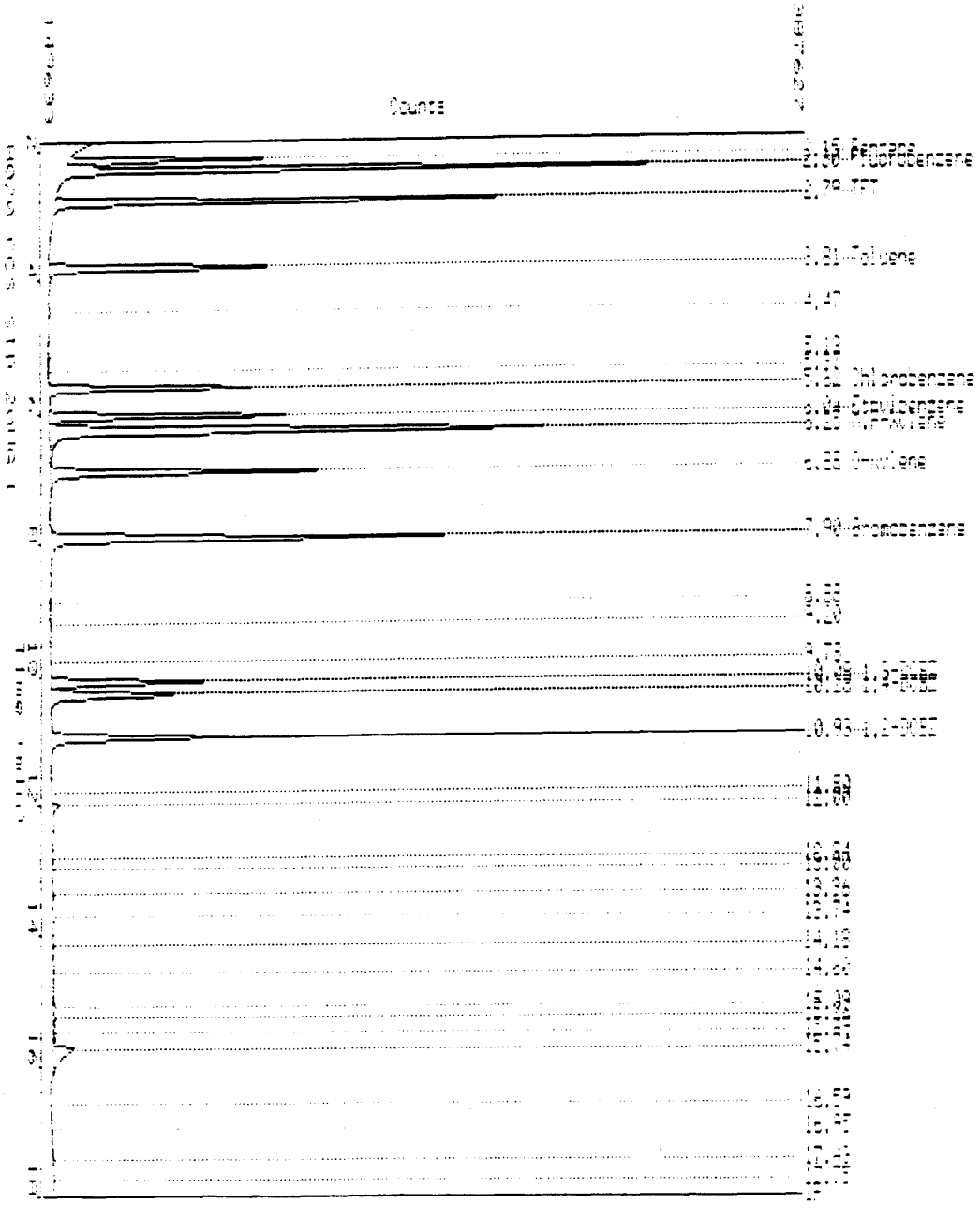
Data file: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: 1.00-20.00

Vert. scale/offset: 0.3/0



000033

012026

012026

Chester LabNet - HOUSTON

Date..... 7-APR-1993 18:03
Raw file..... KBB0407-001
Method file..... KBC0407-1B
Last method update.. 7-APR-1993 18:03
Device..... Channel 14A
Acq. date..... 7-APR-1993 17:36
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID.....

Report #... 250454
Column ID.. DB5
Method SW846 8020
Area rej... 4000
Process #.. 1
Lab ID .... 8020 CCS STD 20UG/L
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 CCS STD 20UG/L

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	2.148	8.36E-01	20.000	261198			1	
Fluorobenzene	2.296	1.00E+00	50.000	780993			S1	
TFT	2.790	7.84E-01	50.000	612505		R	1	
Toluene	3.810	9.47E-01	20.000	295929			1	
Chlorobenzene	5.616	1.16E+00	20.000	272743			2	
Ethylbenzene	6.035	1.44E+00	20.000	338576			2	
M,P-Xylene	6.253	1.63E+00	40.000	766003			2	
O-xylene	6.882	1.72E+00	20.000	403549			2	
Bromobenzene	7.904	1.00E+00	50.000	586645			S2	
1,3-DCBZ	10.085	1.03E+00	20.000	242764			2	
1,4-DCBZ	10.281	8.52E-01	20.000	199923			2	
1,2-DCBZ	10.933	1.13E+00	20.000	264244			2	

012028

THE FOLLOWING DATA IS

FOR QA/QC

000005

012029

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/07/93	Sens Time:	9:52:00
Lab ID:	FS0407C01	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Suanita D Drummond

M/E	Ion Abundance Criteria	Spec # 218	
51	30 to 60% of mass 198	39.25	
68	less than 2% of mass 69	0.18	(0.49) 1
69	mass 69 relative abundance	37.34	
70	less than 2% of mass 69	0.29	(0.79) 1
127	40 TO 60% of mass 198	49.60	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.04	
275	10 TO 30% of mass 198	21.14	
365	greater than 1% of mass 198	1.19	
441	less than mass 443	4.32	
442	greater than 40% of mass 198	45.18	
443	17 TO 23% of mass 442	7.97	(17.63) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

000036

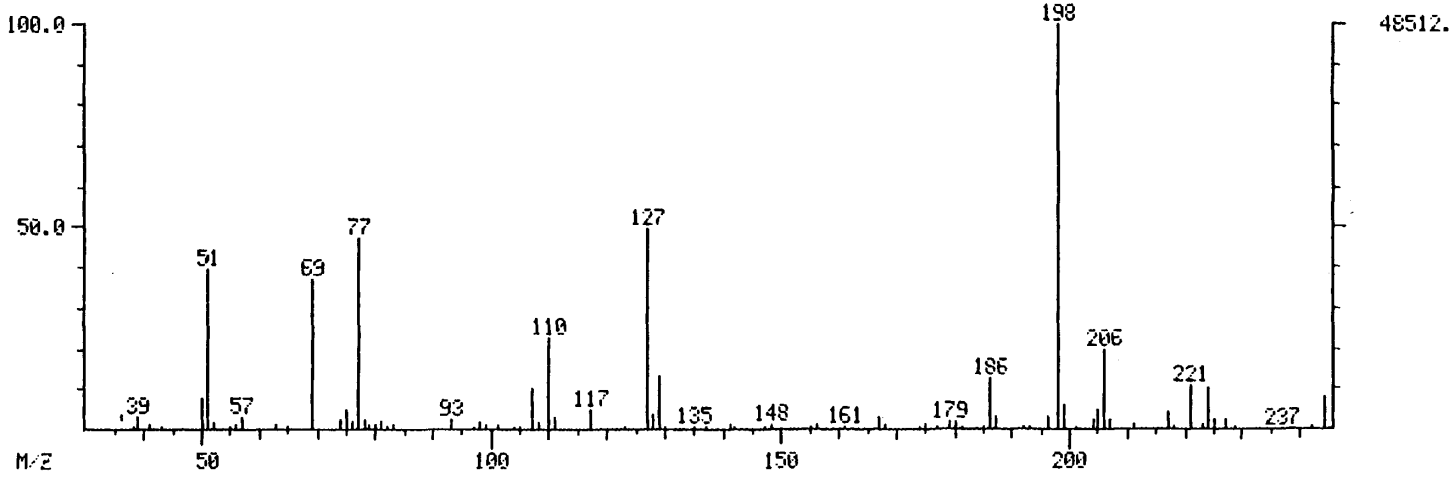
-15

MASS SPECTRUM
04/07/93 9:52:00 + 3:39
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:#158 DEG. C
#218 TO #220 SUMMED - #190

DATA: FS0407C01 #219
CALI: FS0407C01 #3

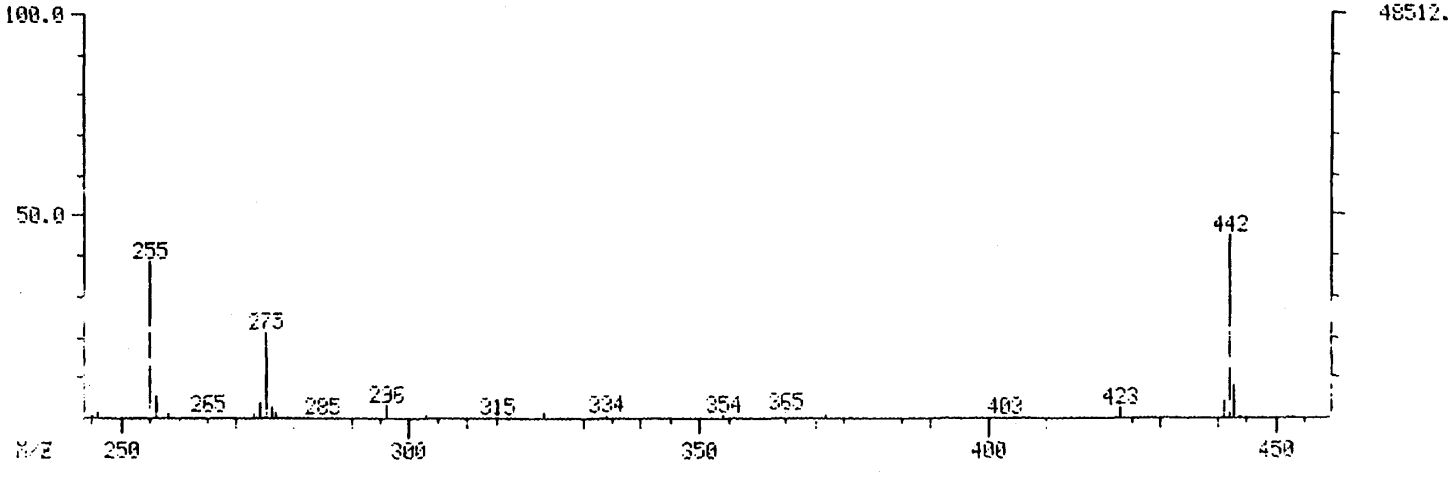
BASE M/Z: 198
RIC: 311296.

CHESTER DC # ---



DFTPP SPECTRA

INST ID: 4510



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012030

012030

INST ID: 4510 CHESTER DC # --- -15

012031

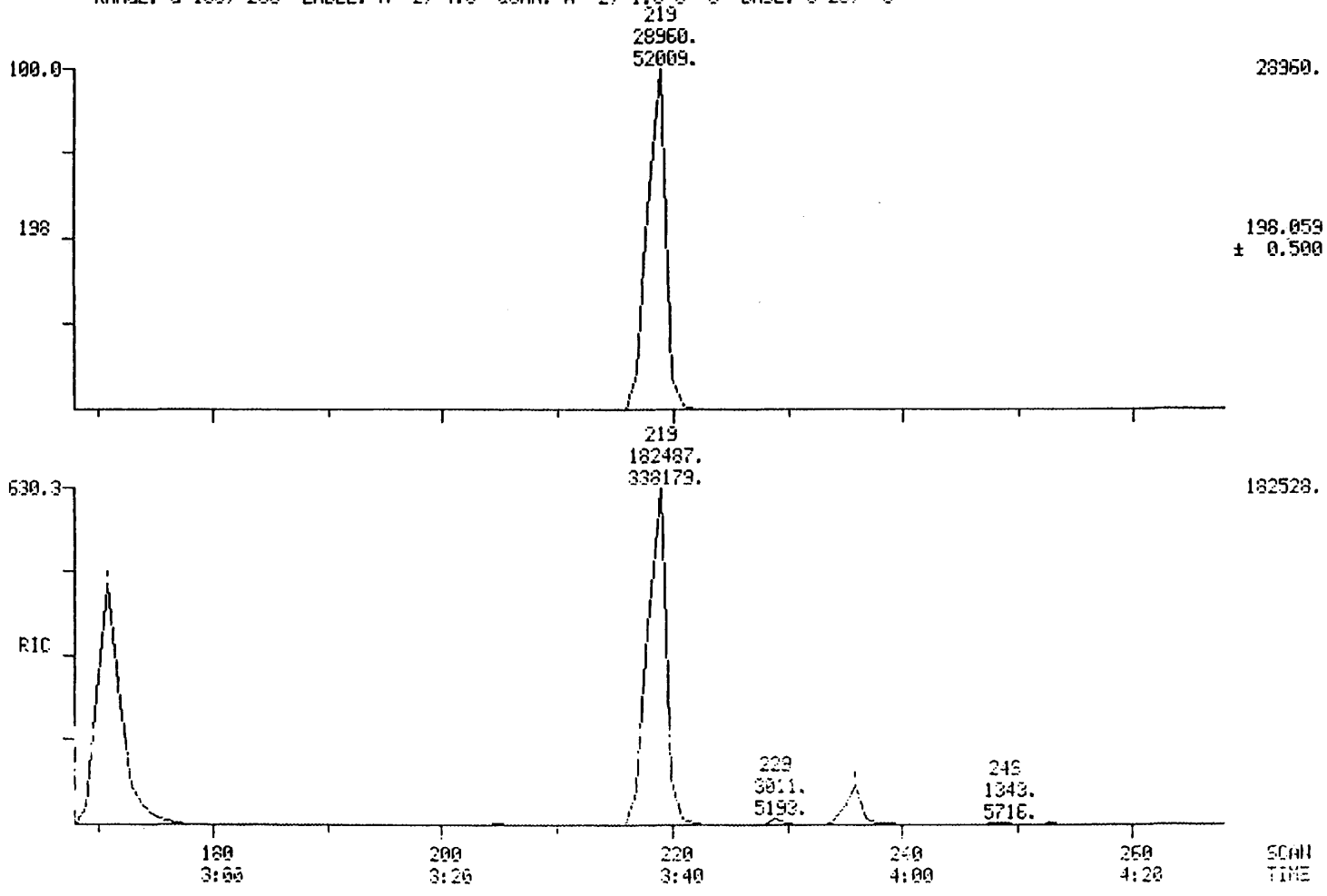
DFTPP MASS LISTING

Mass List Data: FS0407C01 # 219 Base m/z: 198
04/07/93 9:52:00 + 3:39 Cali: FS0407C01 # 3 RIC: 311296.
Sample: DFTPP
Conds.: ---
#218 to #220 summed - #190

36 0.00 0. Minima Min Inten: 164.
444 Maxima # 0

Mass		% RA	Inten.	Mass	% RA	Inten.
39?		3.11	1508.	177	0.36	174.
41		0.90	437.	179	1.97	954.
43		0.78	376.	180	1.64	795.
50		8.03	3896.	181	0.71	343.
51	S	39.25	19040.	185	0.89	434.
52		1.64	796.	186	12.70	6160.
55		0.78	378.	187	3.24	1572.
56		1.01	491.	192	0.47	229.
57		2.87	1392.	193	0.66	322.
63		0.99	478.	196	2.77	1342.
65		0.66	319.	198	100.00	48512.
69		37.34	18112.	199	6.04	2932.
74		2.30	1116.	201	0.36	176.
75		4.58	2224.	204	2.17	1054.
76		1.89	915.	205	4.55	2208.
77		47.36	22976.	206	19.92	9664.
78		2.68	1300.	207	2.22	1078.
79		1.42	690.	211	0.92	447.
80		1.04	506.	217	4.05	1964.
81		2.09	1016.	218	0.43	209.
82		0.55	268.	221	11.07	5368.
83		1.33	645.	223	0.90	437.
93		2.19	1064.	224	10.14	4920.
98		1.66	804.	225	2.35	1140.
99		1.24	602.	227	2.65	1286.
101		0.99	482.	229	0.63	304.
104		0.43	207.	242	0.34	164.
105		0.36	175.	244	7.51	3644.
107		10.26	4976.	245	0.72	348.
108		1.53	740.	246	0.92	444.
110		22.76	11040.	255	38.39	18624.
111		3.03	1470.	256	5.47	2652.
117		4.57	2216.	258	1.28	621.
123		0.52	251.	265	0.40	192.
127		49.60	24064.	273	0.93	453.
128		3.41	1654.	274	3.44	1668.
129		13.46	6528.	275	21.14	10256.
130		0.78	378.	276	2.47	1196.
135		0.74	360.	277	1.07	518.
141		1.00	484.	296	3.04	1476.
142		0.38	182.	323	1.13	550.
147		0.51	248.	334	0.66	319.
148		1.07	517.	354	0.37	178.
155		0.55	265.	365	1.19	576.
156		1.47	714.	372	0.47	226.
161		0.68	330.	423	2.16	1048.
167		3.24	1572.	441	4.32	2096.
168		0.92	445.	442	45.18	21920.
174		0.40	195.	443	7.97	3864.
175		1.24	603.	444	0.54	261.

RIC+MASS CHROMATOGRAM DATA: FS0407C01 #218 SCANS 168 TO 268
04/07/93 9:52:00 CALI: FS0407C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 168, 268 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



000029

012032

CHESTER DC # --- - 8

INST ID: 4510 SAMPLE NUMBER: SBLK

012033

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET CASE NO.: ---
LAB SAMPLE ID NO.: 93--- QC REPORT NO.: 03/30/93
SAMPLE MATRIX: WATER CONTRACT NO.: ---
DATA RELEASE AUTHORIZED BY: ..... DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW DATAFILE: 9B04023C01
DATE EXTRACTED: 4/5/93
DATE ANALYZED: 04/07/93 DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U : UNDETECTED AT THE LISTED DETECTION LIMIT
J : COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000040

INST ID: 4510

SAMPLE NUMBER: SBLK

012034

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: ...

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/5/93
DATE ANALYZED: 04/07/93

DATAFILE: 9B04023C01
DILUTION FACTOR: 1

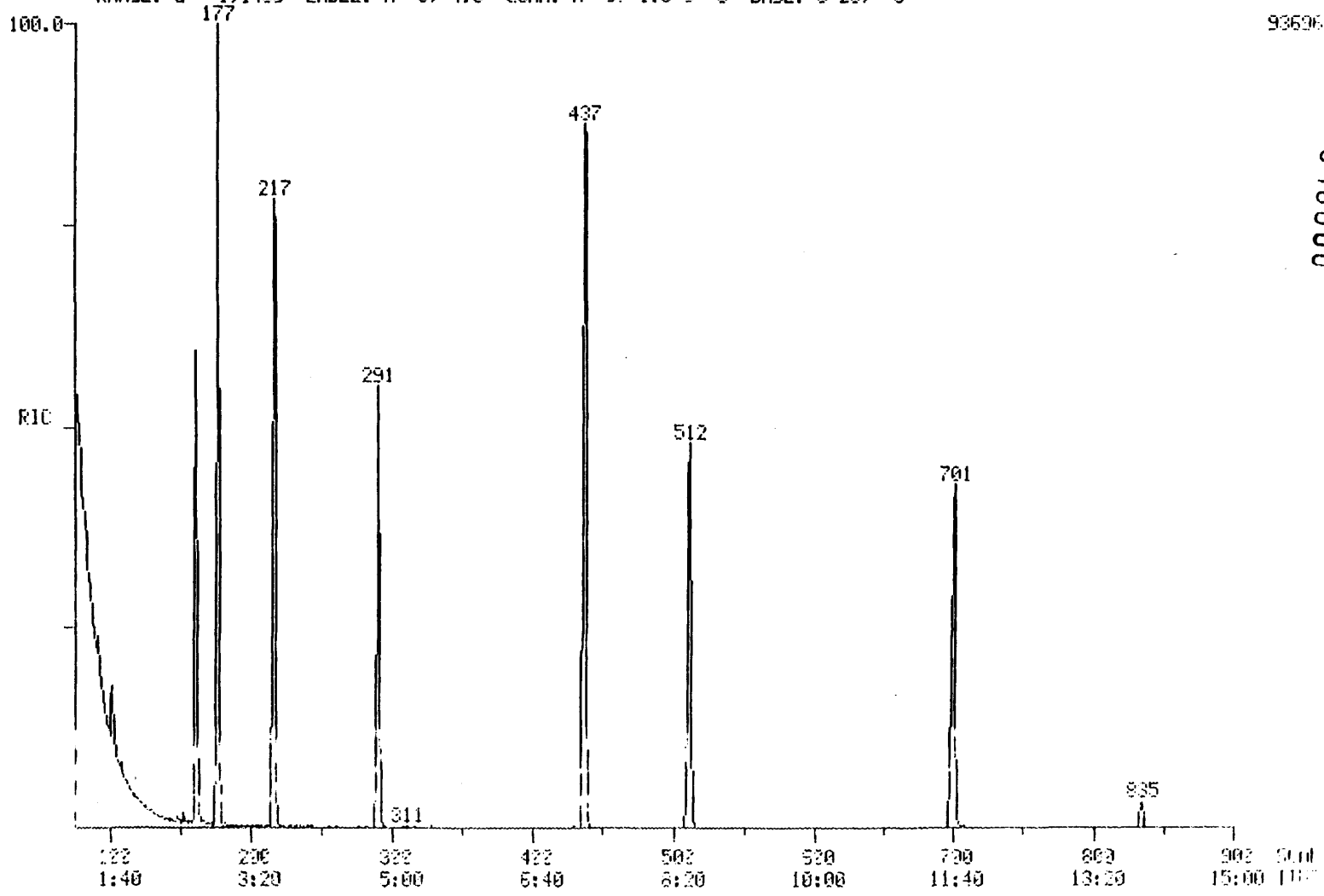
	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C850	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

RIC
04/07/93 15:20:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04023C01 #1 SCANS 75 TO 900
CALI: 9B04023C01 #3



CHESTER DC # ---

INST ID: 451C

93696

000042

012035

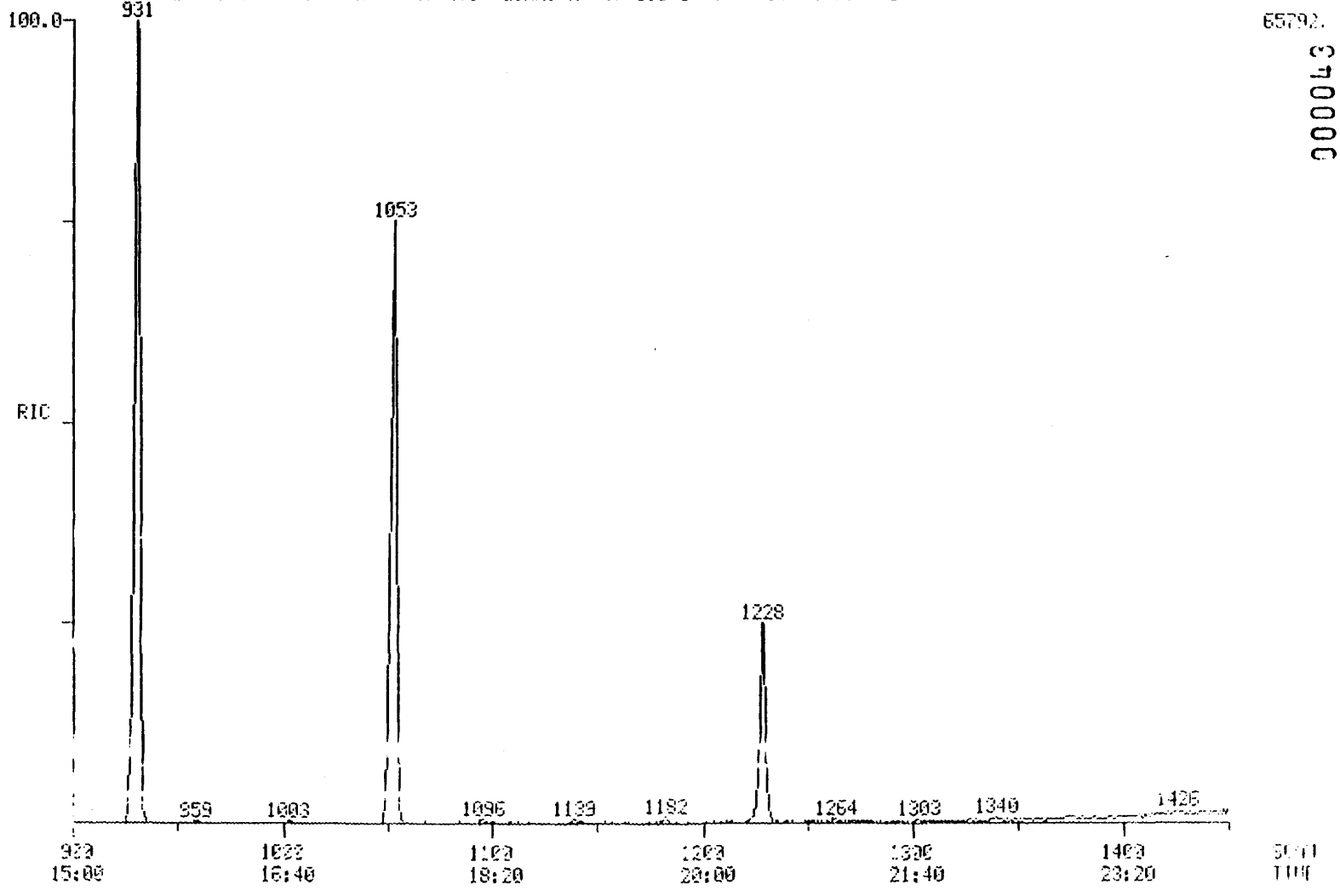
-14

CHESTER DC # ---

INST ID: 4510

RIC
04/07/93 15:20:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B04023C01 #1 SCANS 900 TO 1450
CALI: 9B04023C01 #3



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012036

CHESTER DC # --- -14

012037

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SBLK		
FILENAME	9B04023C01	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	04/07/93 15:20:00	VERIFIED BY	
CALIB STD DATE	03/30/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
161	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	16645
291	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	53557
512	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	33293
700	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	54498
1083	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	33617
1288	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	22108
217	CS20	NITROBENZENE-D5 ** SU3 **	82	85 %	0.746	49185
437	CS25	2-FLUOROBIPHENYL ** SU4 **	172	85 %	0.854	87183
931	CS30	TERPHENYL-D14 ** SU6 **	244	83 %	0.884	98955

000044

Chester LabNet - HOUSTON

Reported on : 8-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.23
Sample ID	: KAB0407-014	Date Received	: 02-APR-1993
Sample Name	: H93-03.273-001	Matrix	: WATER
Project No.	: 18804	Date Collected	: 01-APR-1993
Checked by	: MSM	Client ID	: LAB BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

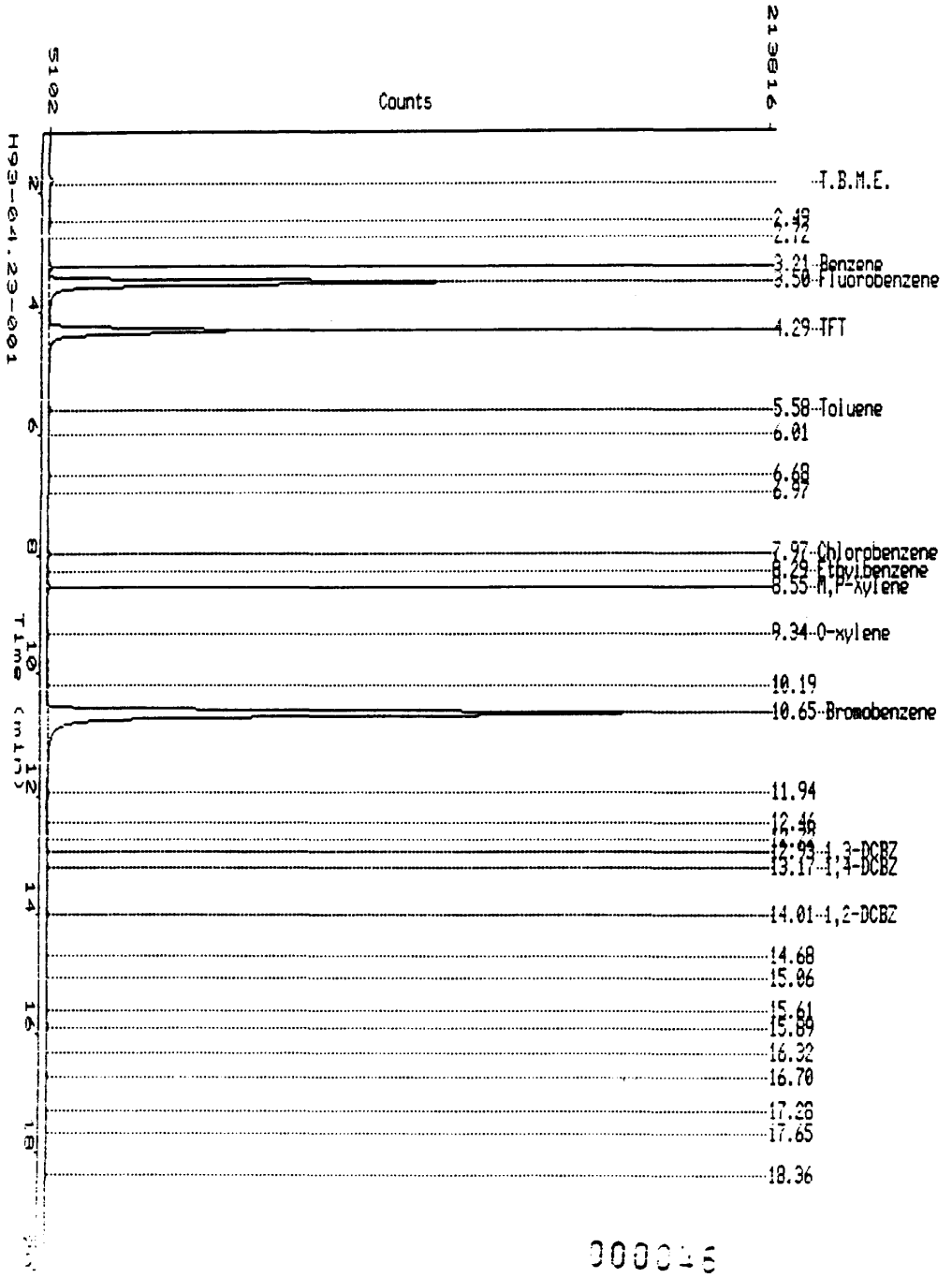
Date Analyzed : 8-APR-1993 10:55 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

012039

Data file: NAI$DIR:[NAI.BTEX]KAB0407-014
Report: 250737
Acquired: 8-APR-1993 10:55:44
Time range: 1.00-20.00
Vert. scale/offset: 0.8/0



000046

012039

LAB BLANK

Chester LabNet - HOUSTON

Date..... 8-APR-1993 15:35
Raw file..... KAB0407-014
Method file..... KBC0407-1A
Last method update.. 8-APR-1993 10:11
Device..... Channel 15A
Acq. date..... 8-APR-1993 10:55
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... LAB BLANK

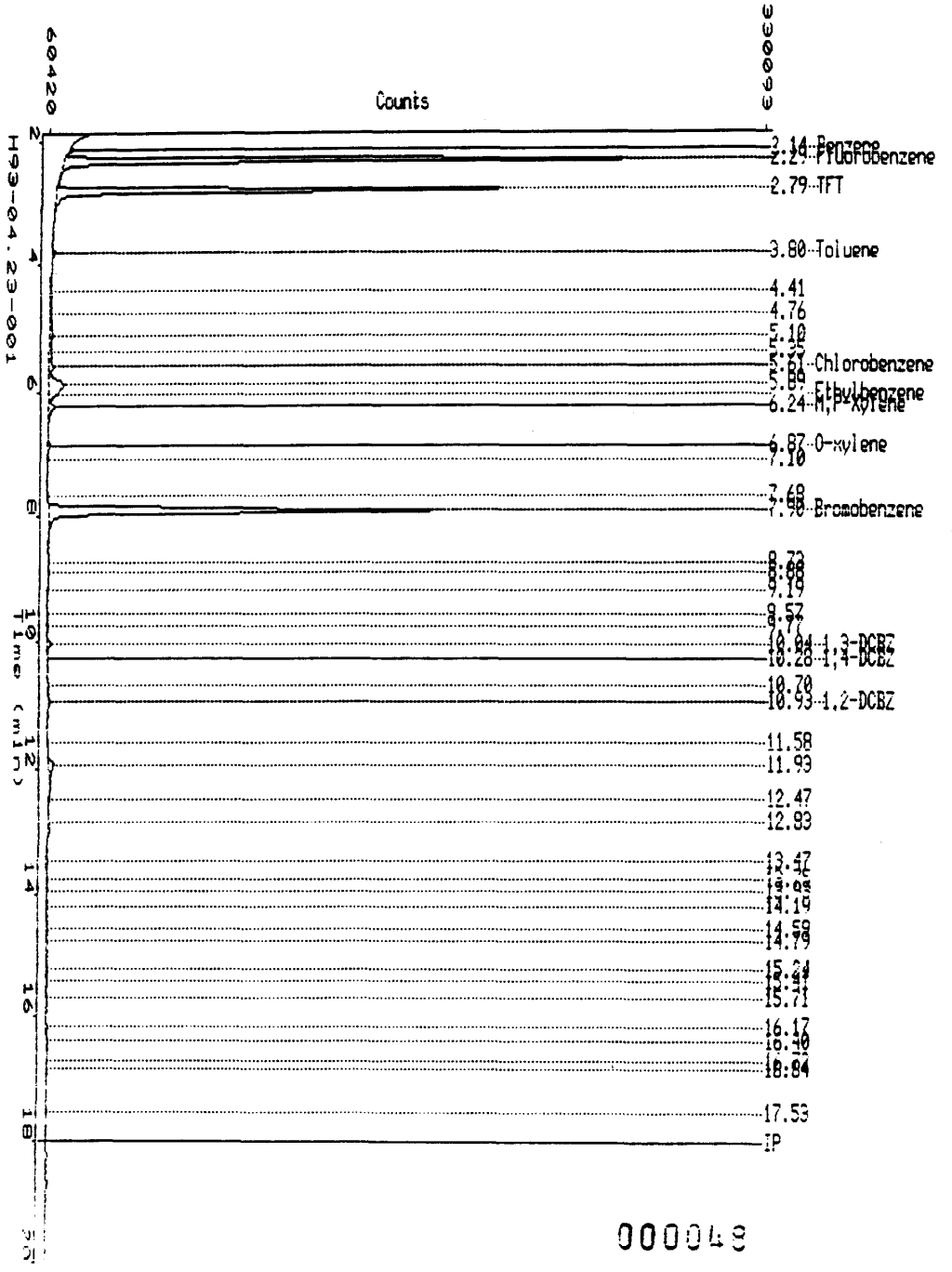
Report #... 250737
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID H93-04.23-001
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.213	-0.55	0.403	5119		1	BV	
Fluorobenzene	3.498	-0.58		628317		S1	VV	
TFT	4.289	-0.49	50.401	339103	R	1	VE	
Toluene	5.583	-0.63	0.307	4047		1	EV	
	6.679			2579			BE	
Chlorobenzene	7.970	-0.80	0.201	3541		2	BV	
Ethylbenzene	8.286	-0.55	0.171	2335		2	VV	
M,P-Xylene	8.548	-0.67	0.324	5950		2	VB	
O-xylene	9.338	-1.21	0.150	2331		2	BB	
Bromobenzene	10.651	-0.84		1180434		S2	VE	
	11.943			7887			EV	
	12.456			2681			EV	
1,3-DCBZ	12.925	-0.73	0.158	2681		2	VV	
1,4-DCBZ	13.172	-1.03	0.307	4464		2	VB	
1,2-DCBZ	14.006	-0.94	0.205	3194		2	BB	
	15.065			2299			BB	
	15.894			2614			BB	
	16.701			4783			BE	
Total:				2211320				

012041

Data file: NAI$DIR:[NAI.BTEX]KBB0407-014
Report: 250726
Acquired: 8-APR-1993 10:55:44
Time range: 1.88-20.00
Vert. scale/offset: 0.8/0



000048

012041

Chester LabNet - HOUSTON

Date..... 8-APR-1993 15:30
Raw file..... KBB0407-014
Method file..... KBC0407-1B
Last method update.. 8-APR-1993 10:11
Device..... Channel 14A
Acq. date..... 8-APR-1993 10:55
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... LAB BLANK

Report #... 250726
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 3
Lab ID H93-04.23-001
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	1.546			1343919			BB	
Benzene	2.135	0.78	0.268	3934		1	BB	
Fluorobenzene	2.293	0.18		876467		S1	BB	
TFT	2.787	0.19	51.863	712987	R	1	BB	
Toluene	3.803	0.42	0.305	5067		1	BB	
	4.413			4689			BV	
	4.759			5702			VV	
	5.103			16367			VV	
	5.354			10352			VV	
Chlorobenzene	5.609	0.42	0.815	13042		2	VV	
	5.893			82008			VV	
M,P-Xylene	6.242	0.69	0.864	19411		2	VB	
O-xylene	6.869	0.80	0.224	5303		2	BB	
Bromobenzene	7.898	0.37		688552		S2	BB	
	9.567			2534			BB	
	9.771			3669			BV	
1,3-DCBZ	10.045	2.42	0.778	11091		2	VB	
1,4-DCBZ	10.278	0.18	0.208	2437		2	BB	
	10.697			4648			BV	
1,2-DCBZ	10.925	0.46	0.270	4193		2	VB	
	11.578			2022			BB	
	11.929			22120			BB	
	13.473			3867			BB	
	13.754			3891			BV	
	13.935			2001			VV	
	14.195			3289			VV	
	14.589			7325			VB	
	15.238			3174			BV	
	16.172			4429			BB	
	16.398			3188			BB	
	16.841			2505			VB	
	17.531			2226			BB	

Total: 3892670

TABLE 2
PROPOSED SAMPLE NUMBERS AND ANALYSIS FOR PRE-TREATMENT WATER TEST

SAMPLE TYPE	MEDIUM	PROPOSED NUMBER OF SAMPLES	ANALYTICAL TECHNIQUE	ANALYSIS/ EPA METHOD*	DQO LEVEL	FIELD EQUIPMENT WASH BLANKS	TRIP BLANKS	FIELD DUPLICATE
Soil washing wastewater prior to discharge to groundwater treatment plant	Water	1 (3)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr, Cu, Zn, Pb (6010)	III	1	1	1
Recycled Wash Water	Water	5 (4)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr	III	1	1	1

* EPA Method and SW 846 Test Methods for Evaluating Solid Waste, 3rd ed., 1987.

Notes:

(1) Field equipment wash blanks and field duplicates do not apply to the following physical/conventional parameters (pH, COD, TDS).

(2) Trip blank analyzed for BTEX only.

(3) Assumes one discharge to the groundwater treatment plant during the soil washing demonstration test.

(4) Daily composite of grab samples collected every 2 hours.

012044

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 2-APR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.23
Due Date : 7-APR-1993
Date Rec'd : 2-APR-1993
Project ID :
P.O. Number: 18804

Attention:

Contact: BRUCE HIKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 2 Sampled by: CLIENT

Job Comments:

SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
23-001	LAB BLANK	QA_QC	WATER	1-APR-93
23-002	SC-RW-D	X	WATER	1-APR-93

Analysis ID	Parameter Description	Number of Analyses
AS_ICP	Arsenic(ICP)	2
BTEX_8020	BTEX by Method 8020	2
COD	Chemical Oxygen Demand	2
CR	Chromium	2
EXT_8270	Extraction by EPA 8270	2
PH	Hydrogen ion activity (EPA 150.1)	2
SV_TCL	Semivolatiles (Target Compound List)	2
TDS	Total Dissolved Solids(EPA 160.1)	2
TOC	Total Organic Carbon	2
TSS	Total Suspended Solids	2

012045

Report
Prepared
for

D a m e s a n d M o o r e

4601 Charlotte Park Drive

Suite 320
Charlotte, N.C. 28217

Attention : BRUCE HICKMAN

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID : S. CAVALCADE
P.O. NUMBER : 18804

WORK ORDER : H93-04.52
DATE RECEIVED : 6-APR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-04.52-001	LAB BLANK	5-APR-1993	WATER
H93-04.52-002	SC-RW-E	5-APR-1993	WATER
H93-04.52-003	TRIP BLANK	5-APR-1993	WATER

Analysis ID	Parameter Description
AS_ICP	Arsenic(ICP)
BTEX_8020	BTEX by Method 8020
COD	Chemical Oxygen Demand
CR	Chromium
EXT_8270	Extraction by EPA 8270
PH	Hydrogen ion activity (EPA 150.1)
SV_TCL	Semivolatiles (Target Compound List)
TDS	Total Dissolved Solids(EPA 160.1)
TOC	Total Organic Carbon
TSS	Total Suspended Solids

012047

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-04.52

I. RECEIPT

A. DATE: APR. 05, 1993

B. NO. OF SAMPLES: (1) SAMPLE AND (1) TRIP BLANK

C. CLIENT ID NUMBERS: SC-RW-E.

D. SAMPLE TYPE: Recycled Wash Water

E. ANALYSIS REQUESTED: pH; TOC; COD; TSS; TDS;
cPAH(8270); BTEX(8020);
Metals- As(7060), Cr(6010).

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: At the request of Dames & Moore (2) data sheets provided per sample (SV ONLY) in each Work Order. First Organics Analysis Data Sheet contains cPAH followed with Full PAH LISTING.
Quanitation Data sheet will give complete PAH amounts.
Delay of Semi-volatile data (cPAH) due to GC/MS downtime.

I. COMMENTS:

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 26, 1993

Date

000001

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number 18804

Project Location South Cavalcade

Laboratory Chester

Sampler(s) Wes Frandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	pH 150.1	TOC 415.1	COD 410.1	TSS (160.2)	TDS (160.1)	CPAH (8270)	BTEX (8020)	As 7060	Cr	PSA CPAH	TOTAL
SC-RW-E	4/5/93	X	X	X	X	X	X	X	X	X		
~~SC-R~~											X	
SC W1-10(SD) F	4/6/93										X	
SC W1-10(SSD) F	4/6/93										X	
SC W1-10(MCD) F	4/6/93										X	
SC W1-10(C1/C2) F	4/6/93										X	

Relinquished by: Wi[illegible]lt	Organization: Dames + Moore	Date: 4/6/93	Time 5:15	Seal Intact?
Received by: D[illegible]	Organization: Chester	Date: 4/6/93	Time 5:15	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks: Sample per work plan

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____

012048

012048

Keystone Lab - Houston
Water Surrogate Recovery Summary
Keystone Work Order # H93-04.52

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	86	84	65	NA	NA	NA	NA	80
SC-RW-E	DL	DL	DL	DL	DL	DL	DL	DL
TRIP BLANK	NA	NA	NA	NA	NA	NA	NA	NA

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	35-114	S2 (FBP) = 2-Fluorobiphenyl	43-116
S3 (TPH) = Terphenyl-d14	33-141	S4 (PHL) = Phenol-d5	10-110
S5 (2FP) = 2-Fluorophenol	21-110	S6 (TBP) = 2,4,6-Tribromophenol	10-123
S7 (2CP) = 2-Chlorophenol-d4	33-110**	S8 (DCB) = 1,2-Dichlorobenzene-d4	16-110**

0 out of 4 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable
DL = Dilution

012050

C H E S T E R L A B N E T - H O U S T O N

WATER SURROGATE RECOVERY SUMMARY

Client Name: Dames & Moore
Chester LabNet Work Order # H93-04.52

CLIENT SAMPLE NUMBER	TFT % RECOVERY
1. LAB BLANK	99
2. SC-RW-E	98
3. TRIP BLANK	100

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

TFT = TRIFLUOROTOLUENE

ADVISORY QC LIMITS (60 - 125%)

000004

Summary of Analytical Results

Date received: 2-APR-1993 Customer: Dames and Moore Job name: H93-04.52

		Samples		
Chester LabNet ID		52-001	52-002	52-003
Sampling Point		QA QC	X	X
Date Sampled		5-APR-1993	5-APR-1993	5-APR-1993
Customer ID		LAB BLANK	SC-RW-E	TRIP BLANK
Parameters	**Units**			
METALS				
Arsenic	µg/L	<37.0	<37.0	
Chromium	µg/L	<4.0	5.1	
BTEX 8020				
Benzene	µg/L	<2.0	<100	<2.0
Toluene	µg/L	<3.0	<150	<3.0
Ethyl Benzene	µg/L	<3.0	<150	<3.0
Total Xylenes	µg/L	<3.0	<150	<3.0
CONVENTIONAL CHEMISTRIES				
Chemical Oxygen Demand	mg/L	<20.0	4620	
pH	pH units	7.19	5.73	
Total Dissolved Solids	mg/L	<10.0	2860	
Total Organic Carbon	mg/L	<1.0	547	
Total Suspended Solids	mg/L	<2.0	200	

012052

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930405202
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: ...

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9U04052C02
DILUTION FACTOR: 1000

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10000 U	
C740	CHRYSENE	10000 U	
C765	BENZO(B)FLUORANTHENE	10000 U	
C770	BENZO(K)FLUORANTHENE	10000 U	
C775	BENZO(A)PYRENE	10000 U	
C780	INDENO(1,2,3-CD)PYRENE	10000 U	
C785	DIBENZO(A,H)ANTHRACENE	10000 U	

U : UNDETECTED AT THE LISTED DETECTION LIMIT
J : COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4010

CHESTER DC # --- - 8

SAMPLE NUMBER: SC-RW-E

012053

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930405202
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: RG

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 4/6/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9U04052C02
DILUTION FACTOR: 1000

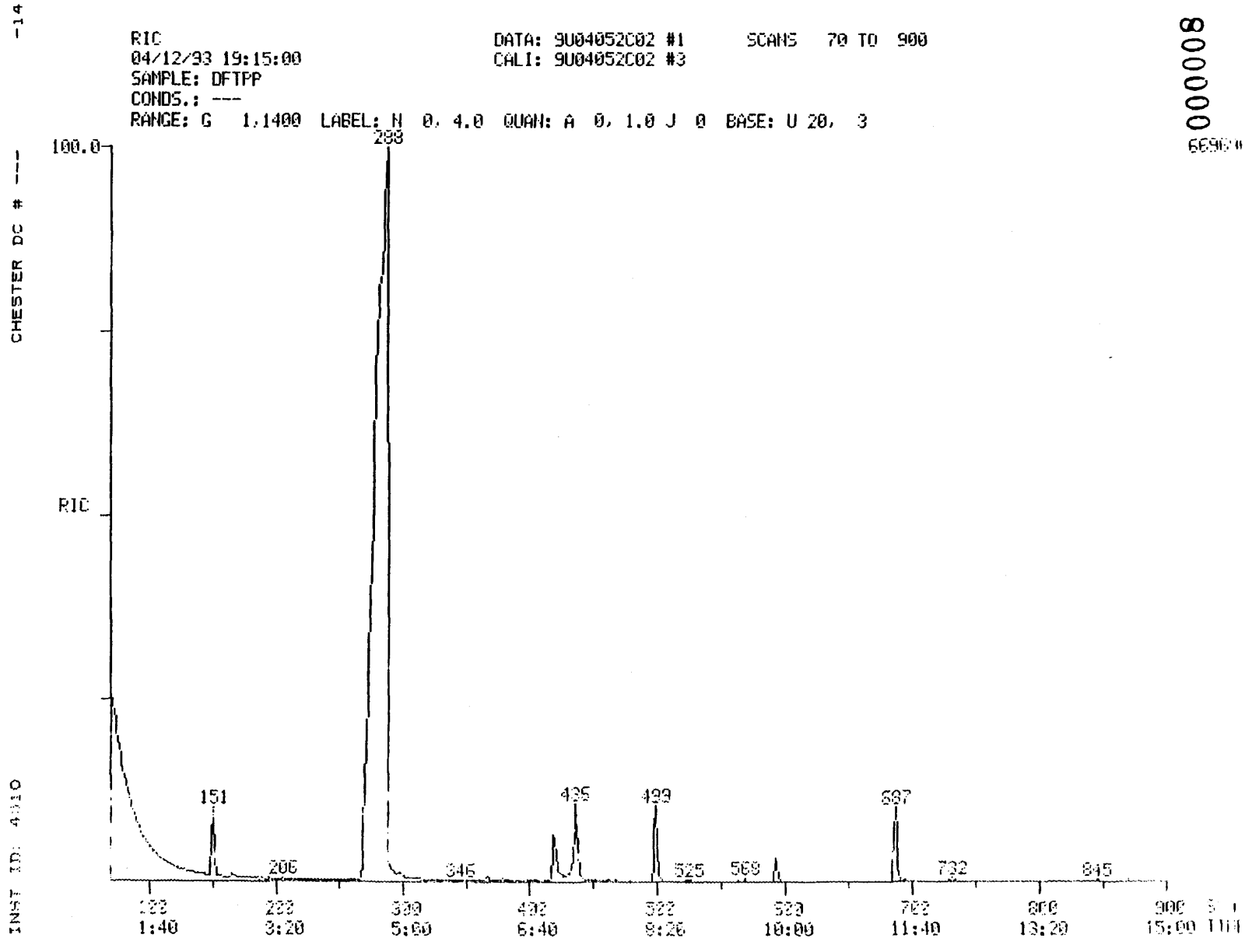
	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10000	12000
C540	ACENAPHTHYLENE	10000 U	
C550	ACENAPHTHENE	10000	1200 J
C590	FLUORENE	10000	1000 J
C640	PHENANTHRENE	10000	1900 J
C645	ANTHRACENE	10000	230 J
C655	FLUORANTHENE	10000	300 J
C715	PYRENE	10000	210 J
C730	BENZO(A)ANTHRACENE	10000 U	
C740	CHRYSENE	10000 U	
C765	BENZO(B)FLUORANTHENE	10000 U	
C770	BENZO(K)FLUORANTHENE	10000 U	
C775	BENZO(A)PYRENE	10000 U	
C780	INDENO(1,2,3-CD)PYRENE	10000 U	
C785	DIBENZO(A,H)ANTHRACENE	10000 U	
C790	BENZO(GHI)PERYLENE	10000 U	

16840

pcb

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

000007



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012054

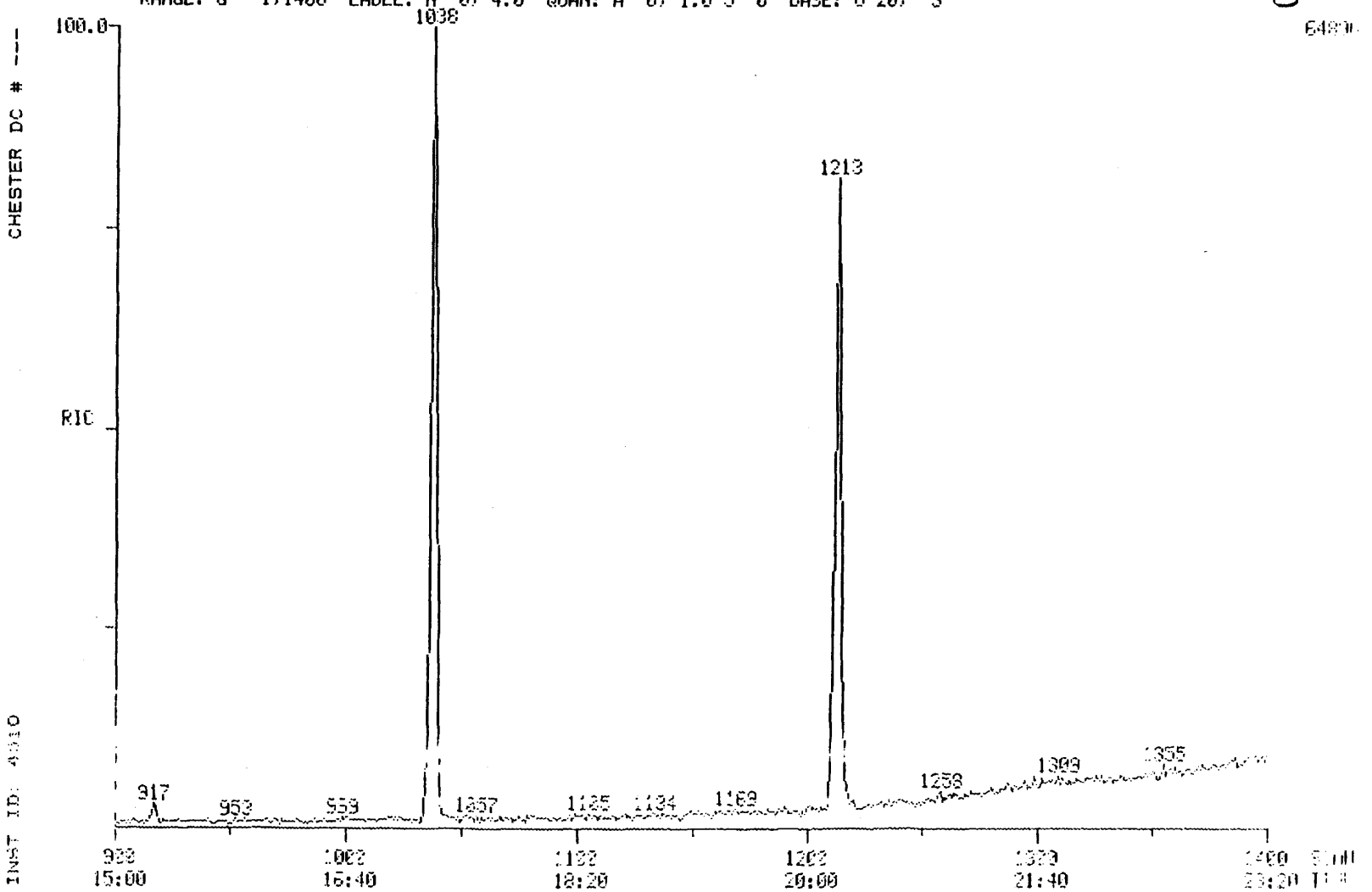
012054

-14

RIC
04/12/93 19:15:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U04052C02 #1 SCANS 900 TO 1400
CALI: 9U04052C02 #3

000009



CHESTER DC # ---

INST ID: 4010

012055

012055

012056

SEMIVOLATILE WATER REPORT

SAMPLE ID.	SC-RW-E		
FILENAME	9U04052C02	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/12/93 19:15:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	1000.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
181	C130	1,4-DICHLOROBENZENE-D4 ** IS	152	20000 UG/L	1.000	16329
277	C140	NAPHTHALENE-D8 ** IS2 **	136	20000 UG/L	1.000	66986
499	C150	ACENAPHTHENE-D10 ** IS3 **	164	20000 UG/L	1.000	43017
687	C160	PHENANTHRENE-D10 ** IS4 **	188	20000 UG/L	1.000	73837
1030	C170	CHRYSENE-D12 ** IS5 **	240	20000 UG/L	1.000	62780
1210	C175	PERYLENE-D12 ** IS6 **	264	20000 UG/L	1.000	53404
281	C450	NAPHTHALENE	128	11756 UG/L	1.007	43347
502	C550	ACENAPHTHENE	153	1205 UG/L	1.006	2414
568	C590	FLUORENE	166	1032 UG/L	1.138	2502
689	C640	PHENANTHRENE	178	1906 UG/L	1.003	8173
695	C645	ANTHRACENE	178	225 UG/L	1.012	1039
846	C655	FLUORANTHENE	202	299 UG/L	1.231	1559
871	C715	PYRENE	202	208 UG/L	0.839	1042

SURROGATES WERE DILUTED OUT

012057

Chester LabNet - HOUSTON

Reported on : 15-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.52
Sample ID	: KAB0414-019	Date Received	: 06-APR-1993
Sample Name	: H93-04.52-002	Matrix	: WATER
Project No.	: 18804	Date Collected	: 05-APR-1993
Checked by	: MSM	Client ID	: SC-RW-E

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 14-APR-1993 18:54 Dilution Factor : 50.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	100	100 U
108-88-3	Toluene	150	150 U
100-41-4	Ethylbenzene	150	150 U
106-42-3	Total Xylenes	150	150 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

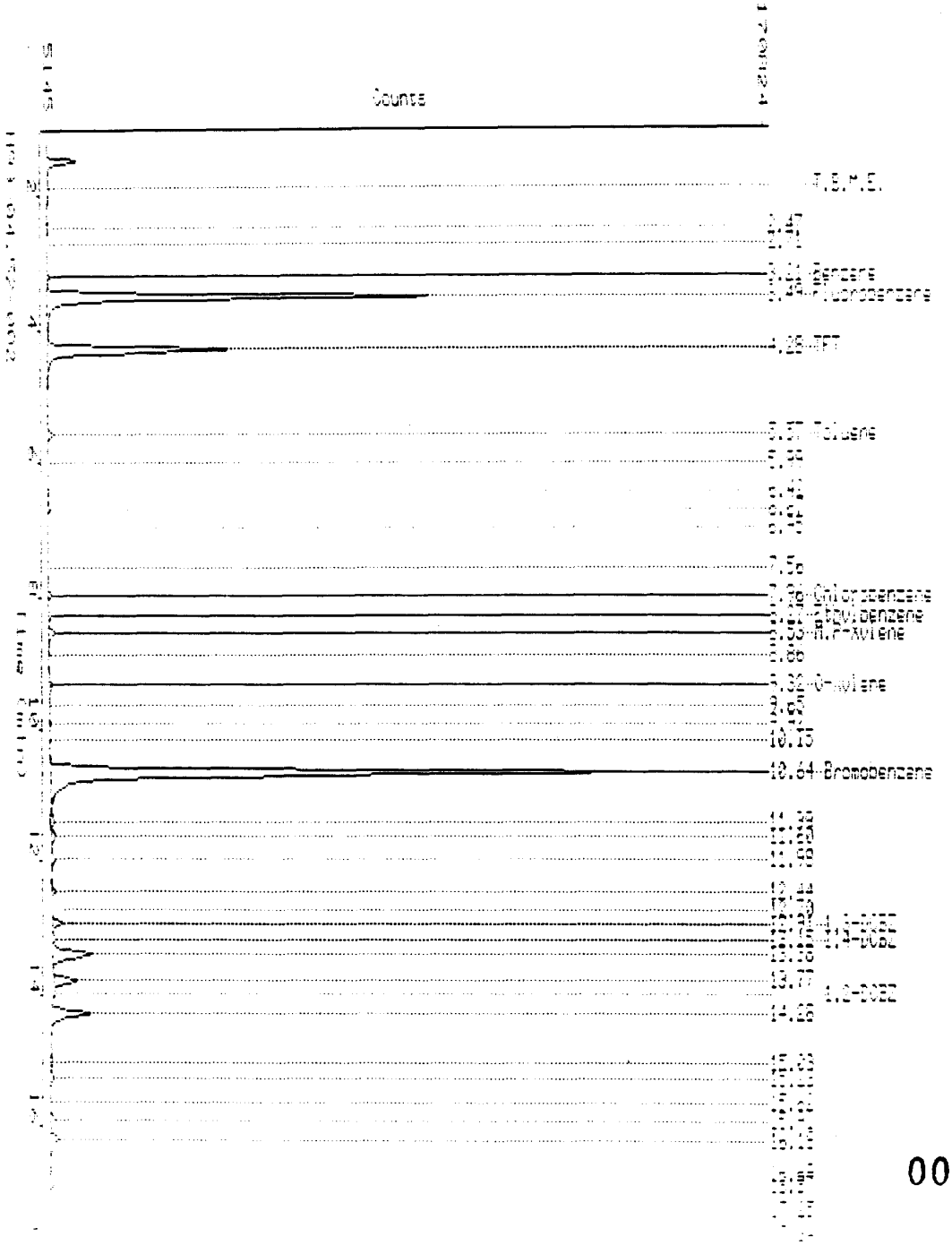
Data file: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: 1.00-15.00

Vert. scale/offset: 0.0/0



Chester LabNet - HOUSTON

Date..... 15-APR-1993 09:14
Raw file..... KAB0414-019
Method file..... KBC0414W-1A
Last method update.. 14-APR-1993 15:48
Device..... Channel 15A
Acq. date..... 14-APR-1993 18:54
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-RW-E

Report #... 252007
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID H93-04.52-002
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 5E+01

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	2.469			2005			BE	
Benzene	3.205	0.76	18.070	3780		1	BV	
Fluorobenzene	3.490	0.81		495412		S1	VV	
TFT	4.281	0.83	2446.408	264700	R	1	VE	
Toluene	5.568	1.07	34.602	8147		1	EV	
	6.666			4688			VE	
Chlorobenzene	7.957	1.03	15.041	3914		2	BB	
Ethylbenzene	8.273	1.18	17.052	3527		2	BV	
M,P-Xylene	8.533	1.23	37.901	10786		2	VE	
O-xylene	9.322	0.77	20.456	5218		2	BB	
	9.924			2378			VV	
	10.152			2551			VB	
Bromobenzene	10.636	1.06		922770		S2	BE	
	11.380			14506			EV	
	11.603			10108			EV	
	11.977			9821			EB	
	12.439			6520			BE	
1,3-DCBZ	12.912	1.09	53.495	14434		2	BV	
1,4-DCBZ	13.153	1.21	19.191	4867		2	VV	
	13.380			71141			VB	
	13.771			34322			BB	
	14.280			60819			BB	
	15.029			3412			BV	
	15.275			4796			VB	
	15.907			9195			BV	
	16.184			18218			VB	
	16.867			6648			VB	
	17.254			3810			BB	
	17.644			7291			BB	
Total:				2015630				

012060

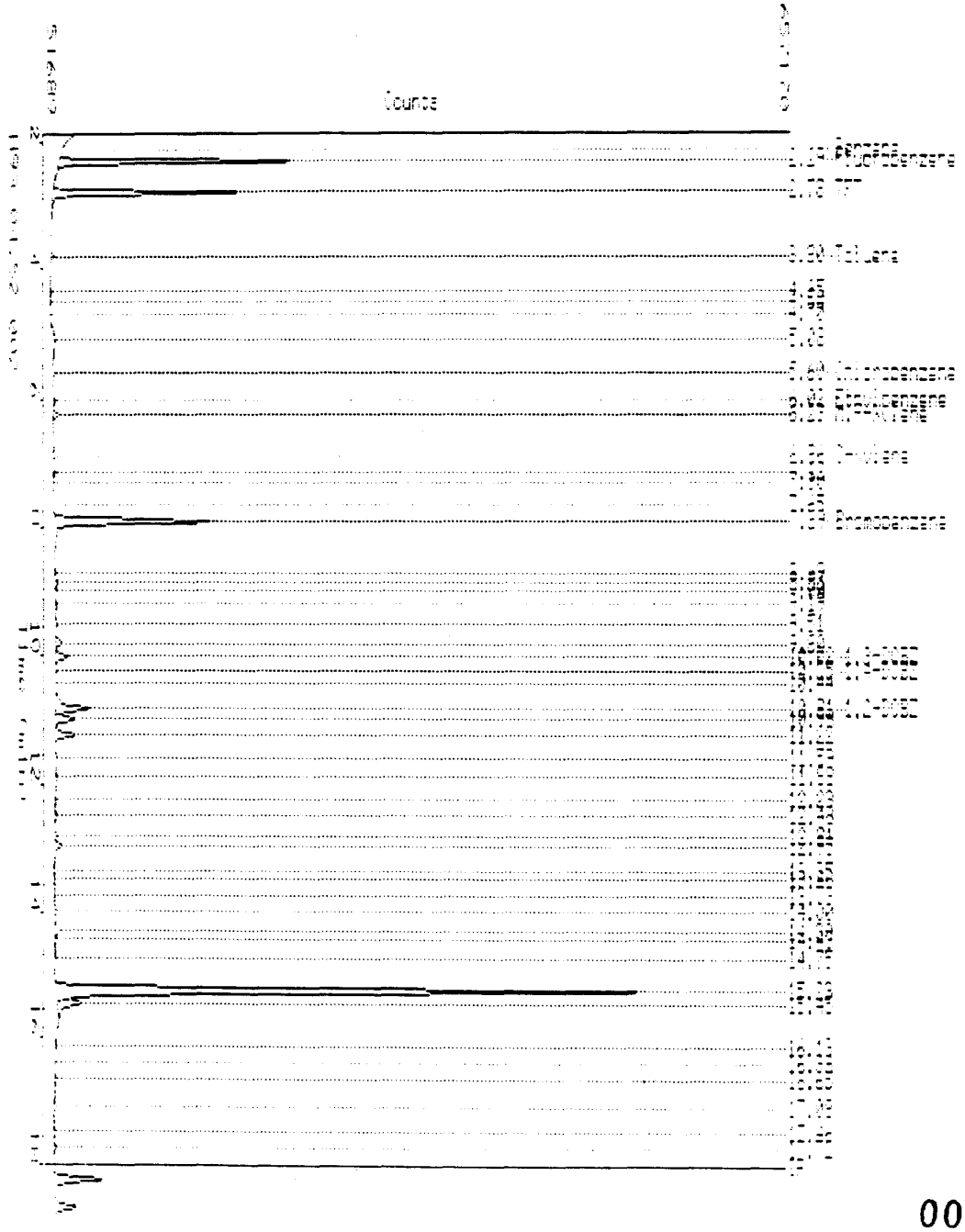
Data File: [illegible]

Report: [illegible]

Acquired: [illegible]

Time range: [illegible]

Vert. scale/offset: [illegible]



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012061

Chester LabNet - HOUSTON

Date..... 15-APR-1993 09:21
Raw file..... KBB0414-019
Method file..... KBC0414W-1B
Last method update.. 14-APR-1993 14:53
Device..... Channel 14A
Acq. date..... 14-APR-1993 18:54
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... SC-RW-E

Report #... 252015
Column ID.. DB5
Method SW846 8020
Area rej... 4000
Process #.. 1
Lab ID H93-04.52-002
A/D range..... 1.0 volts
Sample matrix ... WATER
Dilution factor.. 5E+01

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	1.543			1856235			BB	
Fluorobenzene	2.290	0.55		767696		S1	BB	
TFT	2.784	0.65	2489.751	619890	R	1	BB	
Toluene	3.796	0.82	37.496	12673		1	BB	
	4.346			5304			BV	
	4.504			4107			VV	
	5.077			32866			BB	
Chlorobenzene	5.601	0.89	22.801	6008		2	BB	
Ethylbenzene	6.016	1.10	23.333	7644		2	BV	
M,P-Xylene	6.233	1.16	59.866	23215		2	VV	
O-xylene	6.861	1.23	44.064	16982		2	VB	
	7.118			8667			BV	
Bromobenzene	7.888	0.93		575808		S2	BB	
	8.862			16991			BV	
	8.997			7039			VB	
	9.187			7604			BB	
	9.513			4008			BB	
	9.805			33967			BV	
1,3-DCBZ	10.019	3.68	194.044	59071		2	VE	
1,4-DCBZ	10.248	1.86	23.338	4839		2	EB	
1,2-DCBZ	10.814	7.11	652.101	192010		2	VV	
	10.982			88113			VV	
	11.222			87709			VB	
	11.592			5838			BB	
	11.882			6777			BB	
	12.225			4532			BB	
	12.484			15614			BB	
	12.809			6994			BV	
	12.952			25395			VB	
	13.352			4732			BV	
	13.458			4233			VB	
	13.996			14786			BV	
	14.301			40082			VV	
	14.427			13689			VV	
	14.749			15618			VB	
	15.234			2668965			BB	
	15.452			144466			BB	
	15.127			[illegible]			BB	

000015

16.381	5064	BB
16.654	5271	BB
17.081	4265	BV
17.464	9291	VV
17.724	10835	VB

Total: 7463670

012062

000016

012063

CALIBRATIONS

CHESTER LABNET-HOUSTON

000017

012064

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 04/08/93
STANDARD FILE: FS0412C02
DATE: 04/12/93 TIME: 11:59
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.764	1.902	7.796
C325	BIS(2-CHLOROETHYL)ETHE	1.783	1.508	-15.421
C330	2-CHLOROPHENOL	1.386	1.446	4.349
C335	1,3-DICHLOROBENZENE	1.503	1.550	3.147
C340	1,4-DICHLOROBENZENE	1.562	1.585	1.423
C345	BENZYL ALCOHOL	0.666	0.880	32.118
C350	1,2-DICHLOROBENZENE	1.429	1.413	-1.099
C355	2-METHYLPHENOL	1.522	1.648	8.308
C357	2,2'-OXYBIS(1-CHLOROPR	2.791	2.682	-3.918
C365	4-METHYLPHENOL	1.593	1.643	3.159
C370	N-NITROSODIPROPYLAMINE	1.410	1.489	5.582
C375	HEXACHLOROETHANE	0.613	0.616	0.398
C410	NITROBENZENE	0.411	0.430	4.748
C415	ISOPHORONE	0.799	0.833	4.271
C420	2-NITROPHENOL	0.218	0.212	-2.449
C425	2,4-DIMETHYLPHENOL	0.321	0.331	2.968
C430	BENZOIC ACID	0.223	0.261	16.954
C435	BIS(2-CHLOROETHOXY)MET	0.505	0.491	-2.947
C440	2,4-DICHLOROPHENOL	0.301	0.313	4.161
C445	1,2,4-TRICHLOROBENZENE	0.325	0.314	-3.440
C450	NAPHTHALENE	1.111	1.101	-0.878
C455	4-CHLOROANILINE	0.385	0.452	17.237
C460	HEXACHLOROBUTADIENE	0.142	0.133	-6.489
C465	P-CHLORO-M-CRESOL	0.296	0.307	3.623
C470	2-METHYLNAPHTHALENE	0.834	0.831	-0.315
C510	HEXACHLOROCYCLOPENTADI	0.255	0.247	-3.002
C515	2,4,6-TRICHLOROPHENOL	0.306	0.313	2.391
C520	2,4,5-TRICHLOROPHENOL	0.349	0.388	11.010
C525	2-CHLORONAPHTHALENE	1.074	1.100	2.506
C530	2-NITROANILINE	0.384	0.448	16.764
C535	DIMETHYL PHTHALATE	1.216	1.236	1.668
C540	ACENAPHTHYLENE	1.611	1.528	-5.144
C545	3-NITROANILINE	0.321	0.337	4.698
C550	ACENAPHTHENE	0.908	0.931	2.565
C555	2,4-DINITROPHENOL	0.154	0.156	1.633
C560	4-NITROPHENOL	0.085	0.104	22.396
C565	DIBENZOFURAN	1.526	1.509	-1.147
C570	2,4-DINITROTOLUENE	0.338	0.332	-1.882
C543	2,6-DINITROTOLUENE	0.341	0.379	11.175
C580	DIETHYL PHTHALATE	1.136	1.050	-7.642
C585	4-CHLOROPHENYL PHENYL	0.620	0.570	-8.012
C590	FLUORENE	1.174	1.127	-4.024
C595	4-NITROANILINE	0.298	0.300	0.616
C610	4,6-DINITRO-2-METHYLPH	0.154	0.146	-5.071
C615	N-NITROSODIPHENYLAMINE	0.691	0.640	-7.354
C625	4-BROMOPHENYL PHENYL E	0.217	0.191	-11.866
C630	HEXACHLOROBENZENE	0.198	0.193	-2.566
C635	PENTACHLOROPHENOL	0.127	0.127	0.463
C640	PHENANTHRENE	1.212	1.162	-4.140
C645	ANTHRACENE	1.273	1.250	-1.797
[illegible]	DI-N-BUTYL PHTHALATE	[illegible]	[illegible]	[illegible]
[illegible]	FLUORANTHENE	1.340	[illegible]	[illegible]

000018

C715	PYRENE	1.691	1.596	-5.623
C720	BUTYL BENZYL PHTHALATE	0.924	0.824	-10.876
C725	3,3'-DICHLOROBENZIDINE	0.420	0.390	-7.180
C730	BENZO(A)ANTHRACENE	1.399	1.321	-5.582
C745	BIS(2-ETHYLHEXYL)PHTHA	1.469	1.254	-14.635
C740	CHRYSENE	1.096	1.088	-0.726
C760	DI-N-OCTYL PHTHALATE	2.871	2.471	-13.934
C765	BENZO(B)FLUORANTHENE	1.573	1.479	-5.920
C770	BENZO(K)FLUORANTHENE	1.021	1.053	3.124
C775	BENZO(A)PYRENE	1.138	1.134	-0.381
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.786	-0.469
C785	DIBENZO(A,H)ANTHRACENE	0.784	0.768	-1.931
C790	BENZO(GHI)PERYLENE	0.877	0.918	4.725
C310	N-NITROSODIMETHYLAMINE	1.522	0.994	-34.640
C620	1,2-DIPHENYL-HYDRAZINE	1.081	1.039	-3.870
CS70	2-CHLOROPHENOL-D4 ** S	1.755	1.927	9.837
CS75	1,2-DICHLOROBENZENE-D4	0.852	0.870	2.174
C647	CARBAZOLE	1.184	1.241	4.799
CS50	2-FLUOROPHENOL ** SU1	1.283	1.480	15.348
CS45	PHENOL-D5 ** SU2 **	1.908	2.168	13.590
CS55	2,4,6-TRIBROMOPHENOL	0.127	0.133	5.096
CS20	NITROBENZENE-D5 ** SU3	0.389	0.440	13.024
CS25	2-FLUOROBIPHENYL ** SU	1.127	1.191	5.680
CS30	TERPHENYL-D14 ** SU6	1.329	1.267	-4.667
BENZENETHIOL				
METHYL CHRYSENE				
QUINOLINE				
C720	1-METHYLNAPHTHALENE			
7,12-DIMETHYLBENZ(A)ANTHRACE				
DIBENZ(A,H)ACRIDINE				
3+4-METHYLPHENOL				
INDENE				
A950	PYRIDINE			
A953	2,6-DICHLOROPHENOL			
A987	2,5-DICHLOROPHENOL			
A988	3,4-DICHLOROPHENOL			
A989	2,3-DICHLOROPHENOL			
A990	3,5-DICHLOROPHENOL			
A971	1,3,5-TRICHLOROBENZENE			
A972	1,2,3-TRICHLOROBENZENE			

012065

CHESTER DC # ----17

012066

SV STANDARD REPORT

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0412C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/12/93 11:59:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	150	40	20763	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	279	40	78054	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	498	40	47261	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	686	40	68610	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1037	40	62365	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1211	40	59675	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	77	50	38405	0.513	1.480
CS45	PHENOL-D5 ** SU2 **	99	148	50	56264	0.987	2.168
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	605	50	7882	1.215	0.133
CS20	NITROBENZENE-D5 ** SU3 **	82	206	50	42894	0.738	0.440
CS25	2-FLUOROBIPHENYL ** SU4 **	172	424	50	70379	0.851	1.191
CS30	TERPHENYL-D14 ** SU6 **	244	916	50	98786	0.883	1.267
C315	PHENOL	94	149	50	49363	0.993	1.902
C325	BIS(2-CHLOROETHYL)ETHER	93	139	50	39129	0.927	1.508
C330	2-CHLOROPHENOL	128	141	50	37524	0.940	1.446
C335	1,3-DICHLOROBENZENE	146	146	50	40228	0.973	1.550
C340	1,4-DICHLOROBENZENE	146	151	50	41124	1.007	1.585
C345	BENZYL ALCOHOL	108	175	50	22833	1.167	0.880
C350	1,2-DICHLOROBENZENE	146	167	50	36682	1.113	1.413
C355	2-METHYLPHENOL	108	202	50	42772	1.347	1.648
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	189	50	69609	1.260	2.682
C365	4-METHYLPHENOL	108	219	50	42652	1.460	1.643
C370	N-NITROSODIPROPYLAMINE	70	205	50	38633	1.367	1.489
C375	HEXACHLOROETHANE	117	194	50	15980	1.293	0.616
C410	NITROBENZENE	77	208	50	41988	0.746	0.430
C415	ISOPHORONE	82	237	50	81258	0.849	0.833
C420	2-NITROPHENOL	139	243	50	20707	0.871	0.212
C425	2,4-DIMETHYLPHENOL	107	272	50	32299	0.975	0.331
C430	BENZOIC ACID	122	311	50	25452	1.115	0.261
C435	BIS(2-CHLOROETHOXY)METHANE	93	274	50	47859	0.982	0.491
C440	2,4-DICHLOROPHENOL	162	281	50	30552	1.007	0.313
C445	1,2,4-TRICHLOROBENZENE	180	277	50	30595	0.993	0.314
C450	NAPHTHALENE	128	281	50	107416	1.007	1.101
C455	4-CHLOROANILINE	127	302	50	44052	1.082	0.452
C460	HEXACHLOROBUTADIENE	225	311	50	12971	1.115	0.133
C465	P-CHLORO-M-CRESOL	107	388	50	29939	1.391	0.307
C470	2-METHYLNAPHTHALENE	142	366	50	81108	1.312	0.831
C510	HEXACHLOROCYCLOPENTADIENE	237	399	50	14620	0.801	0.247
C515	2,4,6-TRICHLOROPHENOL	196	418	50	18502	0.839	0.313
C520	2,4,5-TRICHLOROPHENOL	196	430	50	22907	0.863	0.388
C525	2-CHLORONAPHTHALENE	162	425	50	65013	0.853	1.100
C530	2-NITROANILINE	65	456	50	26468	0.916	0.448
C535	DIMETHYL PHTHALATE	163	493	50	73027	0.990	1.236
C540	ACENAPHTHYLENE	152	476	50	90269	0.956	1.528
C545	3-NITROANILINE	138	511	50	19881	1.026	0.337
C550	ACENAPHTHENE	153	502	50	55013	1.008	[illegible]

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SV STANDARD REPORT PAGE 2

DATAFILE FS0412C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	524	50	9245	1.052	0.156
C560	4-NITROPHENOL	109	575	50	6126	1.155	0.104
C565	DIBENZOFURAN	168	524	50	89143	1.052	1.509
C570	2,4-DINITROTOLUENE	165	544	50	19606	1.092	0.332
C543	2,6-DINITROTOLUENE	165	497	50	22376	0.998	0.379
C580	DIETHYL PHTHALATE	149	591	50	62001	1.187	1.050
C585	4-CHLOROPHENYL PHENYL ETHER	204	581	50	33669	1.167	0.570
C590	FLUORENE	166	568	50	66572	1.141	1.127
C595	4-NITROANILINE	138	593	50	17697	1.191	0.300
C610	4,6-DINITRO-2-METHYLPHENOL	198	596	50	12532	0.869	0.146
C615	N-NITROSODIPHENYLAMINE	169	602	50	54928	0.878	0.640
C625	4-BROMOPHENYL PHENYL ETHER	248	642	50	16397	0.936	0.191
C630	HEXACHLOROBENZENE	284	649	50	16522	0.946	0.193
C635	PENTACHLOROPHENOL	266	684	50	10923	0.997	0.127
C640	PHENANTHRENE	178	689	50	99622	1.004	1.162
C645	ANTHRACENE	178	694	50	107246	1.012	1.250
C650	DI-N-BUTYL PHTHALATE	149	810	50	145116	1.181	1.692
C655	FLUORANTHENE	202	845	50	121322	1.232	1.415
C715	PYRENE	202	870	50	124440	0.839	1.596
C720	BUTYL BENZYL PHTHALATE	149	1004	50	64217	0.968	0.824
C725	3,3'-DICHLOROBENZIDINE	252	1051	50	30376	1.014	0.390
C730	BENZO(A)ANTHRACENE	228	1035	50	103000	0.998	1.321
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1099	50	97761	1.060	1.254
C740	CHRYSENE	228	1040	50	84804	1.003	1.088
C760	DI-N-OCTYL PHTHALATE	149	1178	50	184343	0.973	2.471
C765	BENZO(B)FLUORANTHENE	252	1171	50	110358	0.967	1.479
C770	BENZO(K)FLUORANTHENE	252	1173	50	78528	0.969	1.053
C775	BENZO(A)PYRENE	252	1204	50	84600	0.994	1.134
C780	INDENO(1,2,3-CD)PYRENE	276	1324	50	58616	1.093	0.786
C785	DIBENZO(A,H)ANTHRACENE	278	1331	50	57317	1.099	0.768
C790	BENZO(GHI)PERYLENE	276	1346	50	68498	1.111	0.918
C620	1,2-DIPHENYL-HYDRAZINE						

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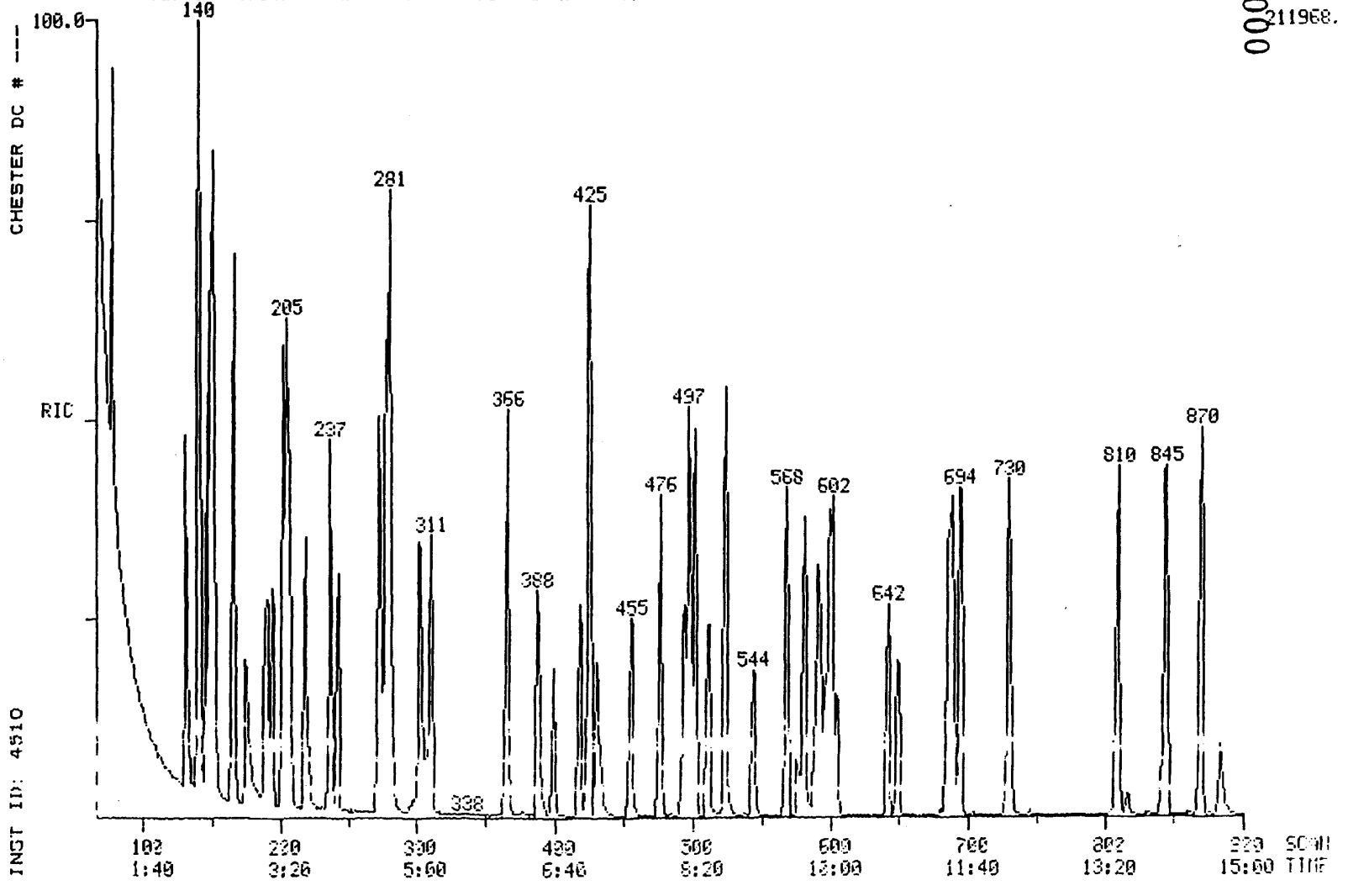
-17

RIC
04/12/93 11:59:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0412C02 #1 SCANS 65 TO 900
CALI: FS0412C02 #3

000022



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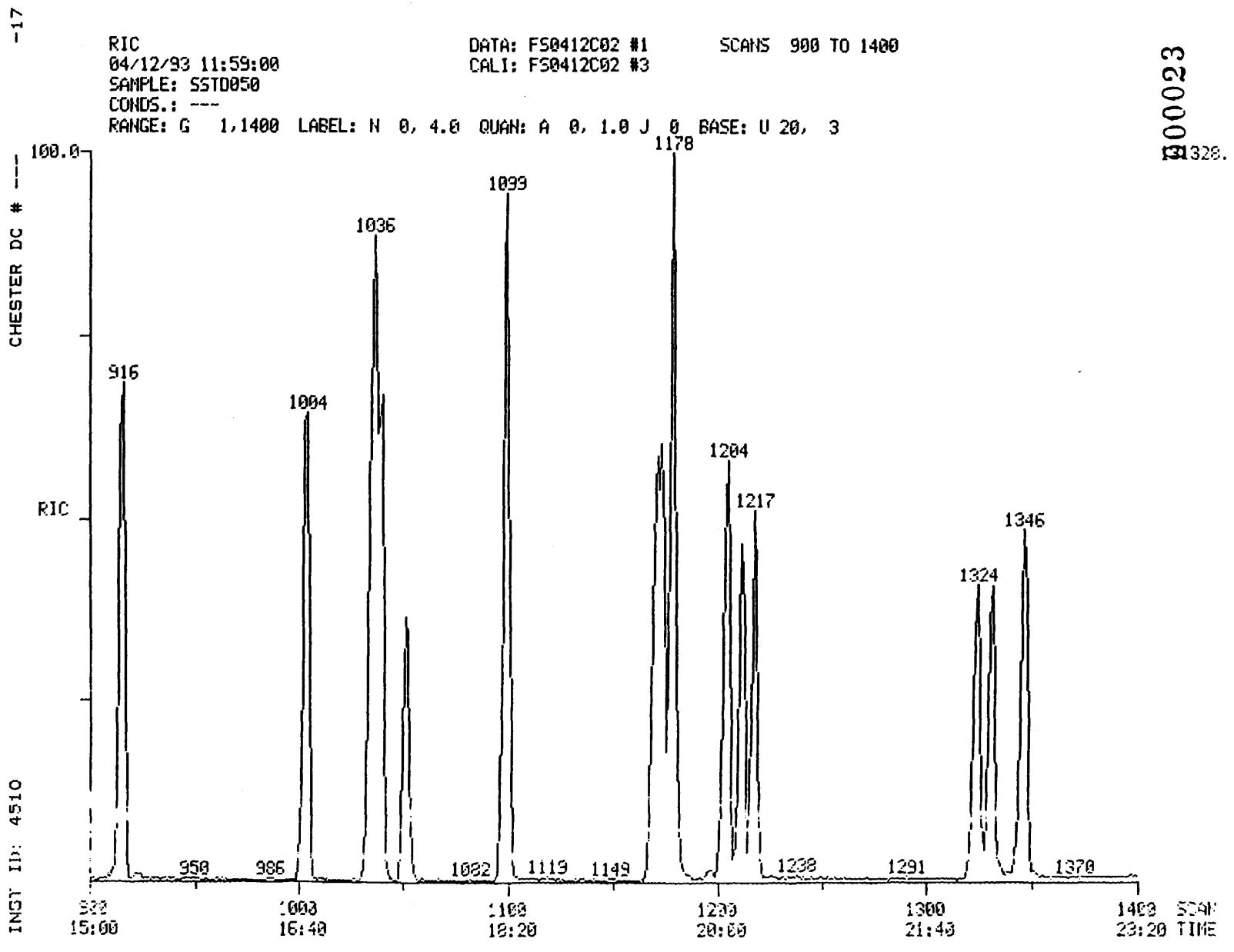

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Quantitation Report File: FS0412C02

Data: FS0412C02.TI
04/12/93 11:59:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

000024

No	Name		
46	C560	4-NITROPHENOL	7A
47	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	150	2:30	1	1.000	A BB	20763.	40.000 UG/L	0.99
2	136	279	4:39	2	1.000	A BB	78054.	40.000 UG/L	0.99
3	164	498	8:18	3	1.000	M XX	47261.	40.000 UG/L	0.99
4	188	686	11:26	4	1.000	A BB	68610.	40.000 UG/L	0.99
5	240	1037	17:17	5	1.000	A BB	62365.	40.000 UG/L	0.99
6	264	1211	20:11	6	1.000	A BB	59675.	40.000 UG/L	0.99
7	112	77	1:17	1	0.513	A BB	38405.	50.000 UG/L	1.24
8	99	148	2:28	1	0.987	A BB	56264.	50.000 UG/L	1.24
9	330	605	10:05	3	1.215	A BB	7882.	50.000 UG/L	1.24
10	82	206	3:26	2	0.738	A BB	42894.	50.000 UG/L	1.24
11	172	424	7:04	3	0.851	A BB	70379.	50.000 UG/L	1.24
12	244	916	15:16	5	0.883	A BB	98786.	50.000 UG/L	1.24
13	94	149	2:29	1	0.993	A BB	49363.	50.000 UG/L	1.24
14	93	139	2:19	1	0.927	A VB	39129.	50.000 UG/L	1.24
15	128	141	2:21	1	0.940	A BB	37524.	50.000 UG/L	1.24
16	146	146	2:26	1	0.973	A BV	40228.	50.000 UG/L	1.24
17	146	151	2:31	1	1.007	A VB	41124.	50.000 UG/L	1.24
18	108	175	2:55	1	1.167	A BB	22833.	50.000 UG/L	1.24
19	146	167	2:47	1	1.113	A BB	36682.	50.000 UG/L	1.24
20	108	202	3:22	1	1.347	A BB	42772.	50.000 UG/L	1.24
21	45	189	3:09	1	1.260	A BB	69609.	50.000 UG/L	1.24
22	108	219	3:39	1	1.460	A BB	42652.	50.000 UG/L	1.24
23	70	205	3:25	1	1.367	A BB	38633.	50.000 UG/L	1.24
24	117	194	3:14	1	1.293	A BB	15980.	50.000 UG/L	1.24
25	77	208	3:28	2	0.746	A VB	41988.	50.000 UG/L	1.24
26	82	237	3:57	2	0.849	A BB	81258.	50.000 UG/L	1.24
27	139	243	4:03	2	0.871	A BB	20707.	50.000 UG/L	1.24
28	107	272	4:32	2	0.975	A BB	32299.	50.000 UG/L	1.24
29	122	311	5:11	2	1.115	A BB	25452.	50.000 UG/L	1.24
30	93	274	4:34	2	0.982	A BB	47859.	50.000 UG/L	1.24
31	162	281	4:41	2	1.007	A BB	30552.	50.000 UG/L	1.24
32	180	277	4:37	2	0.993	A BB	30595.	50.000 UG/L	1.24
33	128	281	4:41	2	1.007	A BB	107416.	50.000 UG/L	1.24
34	127	302	5:02	2	1.082	A BB	44052.	50.000 UG/L	1.24
35	225	311	5:11	2	1.115	A BB	12971.	50.000 UG/L	1.24
36	107	388	6:28	2	1.391	A BB	29939.	50.000 UG/L	1.24
37	142	366	6:06	2	1.312	A BB	81108.	50.000 UG/L	1.24
38	237	399	6:39	3	0.801	A BB	14620.	50.000 UG/L	1.24
39	196	418	6:58	3	0.839	A BB	18502.	50.000 UG/L	1.24
40	196	430	7:10	3	0.863	A BB	22907.	50.000 UG/L	1.24
41	162	425	7:05	3	0.853	A BB	65013.	50.000 UG/L	1.24
42	65	456	7:36	3	0.916	A BB	26468.	50.000 UG/L	1.24
43	163	493	8:13	3	0.990	A BB	73027.	50.000 UG/L	1.24
44	152	476	7:56	3	0.956	A BB	90269.	50.000 UG/L	1.24
45	138	511	8:31	3	1.026	A BB	19881.	50.000 UG/L	1.24
46	153	502	8:22	3	1.008	A BB	55013.	50.000 UG/L	1.24
47	184	524	8:44	3	1.052	A BB	9245.	50.000 UG/L	1.24
48	109	575	9:35	3	1.155	A BV	6126.	50.000 UG/L	1.24
49	168	524	8:44	3	1.052	A BB	89143.	50.000 UG/L	1.24
50	165	544	9:04	3	1.092	A BB	19606.	50.000 UG/L	1.24

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012072

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	4:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	11:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	17:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:11	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:17	1.00	0.513	1.00	50.00	50.00	1.480	1.480	1.00
8	2:28	1.00	0.987	1.00	50.00	50.00	2.168	2.168	1.00
9	10:05	1.00	1.215	1.00	50.00	50.00	0.133	0.133	1.00
10	3:26	1.00	0.738	1.00	50.00	50.00	0.440	0.440	1.00
11	7:04	1.00	0.851	1.00	50.00	50.00	1.191	1.191	1.00
12	15:16	1.00	0.883	1.00	50.00	50.00	1.267	1.267	1.00
13	2:29	1.00	0.993	1.00	50.00	50.00	1.902	1.902	1.00
14	2:19	1.00	0.927	1.00	50.00	50.00	1.508	1.508	1.00
15	2:21	1.00	0.940	1.00	50.00	50.00	1.446	1.446	1.00
16	2:26	1.00	0.973	1.00	50.00	50.00	1.550	1.550	1.00
17	2:31	1.00	1.007	1.00	50.00	50.00	1.585	1.585	1.00
18	2:55	1.00	1.167	1.00	50.00	50.00	0.880	0.880	1.00
19	2:47	1.00	1.113	1.00	50.00	50.00	1.413	1.413	1.00
20	3:22	1.00	1.347	1.00	50.00	50.00	1.648	1.648	1.00
21	3:09	1.00	1.260	1.00	50.00	50.00	2.682	2.682	1.00
22	3:39	1.00	1.460	1.00	50.00	50.00	1.643	1.643	1.00
23	3:25	1.00	1.367	1.00	50.00	50.00	1.489	1.489	1.00
24	3:14	1.00	1.293	1.00	50.00	50.00	0.616	0.616	1.00
25	3:28	1.00	0.746	1.00	50.00	50.00	0.430	0.430	1.00
26	3:57	1.00	0.849	1.00	50.00	50.00	0.833	0.833	1.00
27	4:03	1.00	0.871	1.00	50.00	50.00	0.212	0.212	1.00
28	4:32	1.00	0.975	1.00	50.00	50.00	0.331	0.331	1.00
29	5:11	1.00	1.115	1.00	50.00	50.00	0.261	0.261	1.00
30	4:34	1.00	0.982	1.00	50.00	50.00	0.491	0.491	1.00
31	4:41	1.00	1.007	1.00	50.00	50.00	0.313	0.313	1.00
32	4:37	1.00	0.993	1.00	50.00	50.00	0.314	0.314	1.00
33	4:41	1.00	1.007	1.00	50.00	50.00	1.101	1.101	1.00
34	5:02	1.00	1.082	1.00	50.00	50.00	0.452	0.452	1.00
35	5:11	1.00	1.115	1.00	50.00	50.00	0.133	0.133	1.00
36	6:28	1.00	1.391	1.00	50.00	50.00	0.307	0.307	1.00
37	6:06	1.00	1.312	1.00	50.00	50.00	0.831	0.831	1.00
38	6:39	1.00	0.801	1.00	50.00	50.00	0.247	0.247	1.00
39	6:58	1.00	0.839	1.00	50.00	50.00	0.313	0.313	1.00
40	7:10	1.00	0.863	1.00	50.00	50.00	0.388	0.388	1.00
41	7:05	1.00	0.853	1.00	50.00	50.00	1.100	1.100	1.00
42	7:36	1.00	0.916	1.00	50.00	50.00	0.448	0.448	1.00
43	8:13	1.00	0.990	1.00	50.00	50.00	1.236	1.236	1.00
44	7:56	1.00	0.956	1.00	50.00	50.00	1.528	1.528	1.00
45	8:31	1.00	1.026	1.00	50.00	50.00	0.337	0.337	1.00
46	8:22	1.00	1.008	1.00	50.00	50.00	0.931	0.931	1.00
47	8:44	1.00	1.052	1.00	50.00	50.00	0.156	0.156	1.00
48	9:35	1.00	1.155	1.00	50.00	50.00	0.104	0.104	1.00
49	8:44	1.00	1.052	1.00	50.00	50.00	1.509	1.509	1.00
50	9:04	1.00	1.092	1.00	50.00	50.00	0.332	0.332	1.00

Quantitation Report File: FS0412C02

Data: FS0412C02.TI
04/12/93 11:59:00
Sample: SSTD050
Conds.: ---
Formula: 04/08/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	497	8:17	3	0.998	A BB	22376.	50.000 UG/L	1.24
52	149	591	9:51	3	1.187	A BB	62001.	50.000 UG/L	1.24
53	204	581	9:41	3	1.167	A BB	33669.	50.000 UG/L	1.24
54	166	568	9:28	3	1.141	A BB	66572.	50.000 UG/L	1.24
55	138	593	9:53	3	1.191	A BB	17697.	50.000 UG/L	1.24
56	198	596	9:56	4	0.869	A BB	12532.	50.000 UG/L	1.24
57	169	602	10:02	4	0.878	A BB	54928.	50.000 UG/L	1.24
58	248	642	10:42	4	0.936	A BB	16397.	50.000 UG/L	1.24
59	284	649	10:49	4	0.946	A BB	16522.	50.000 UG/L	1.24
60	266	684	11:24	4	0.997	A BB	10923.	50.000 UG/L	1.24
61	178	689	11:29	4	1.004	A BV	99622.	50.000 UG/L	1.24

012073

012073

012074

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	694	11:34	4	1.012	A VB	107246.	50.000 UG/L	1.24
63	149	810	13:30	4	1.181	A BB	145116.	50.000 UG/L	1.24
64	202	845	14:05	4	1.232	A BB	121322.	50.000 UG/L	1.24
65	202	870	14:30	5	0.839	A BB	124440.	50.000 UG/L	1.24
66	149	1004	16:44	5	0.968	A BB	64217.	50.000 UG/L	1.24
67	252	1051	17:31	5	1.013	A BB	30376.	50.000 UG/L	1.24
68	228	1035	17:15	5	0.998	A BV	103000.	50.000 UG/L	1.24
69	149	1099	18:19	5	1.060	A BB	97761.	50.000 UG/L	1.24
70	228	1040	17:20	5	1.003	A VB	84804.	50.000 UG/L	1.24
71	149	1178	19:38	6	0.973	A BB	184343.	50.000 UG/L	1.24
72	252	1171	19:31	6	0.967	M XX	110358.	50.000 UG/L	1.24
73	252	1173	19:33	6	0.969	M XX	78528.	50.000 UG/L	1.24
74	252	1204	20:04	6	0.994	A BB	84600.	50.000 UG/L	1.24
75	276	1324	22:04	6	1.093	A BV	58616.	50.000 UG/L	1.24
76	278	1331	22:11	6	1.099	A BV	57317.	50.000 UG/L	1.24
77	276	1346	22:26	6	1.111	A BB	68498.	50.000 UG/L	1.24
78	74	29	0:29	1	0.193	A BB	25809.	50.000 UG/L	1.24
79	184	884	14:44	5	0.852	A BB	35364.	50.000 UG/L	1.24
80	132	140	2:20	1	0.933	A BB	50017.	50.000 UG/L	1.24
81	132	165	2:45	1	1.100	M XX	22581.	50.000 UG/L	1.24
82	167	730	12:10	4	1.064	A BB	106416.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:17	1.00	0.998	1.00	50.00	50.00	0.379	0.379	1.00
52	9:51	1.00	1.187	1.00	50.00	50.00	1.050	1.050	1.00
53	9:41	1.00	1.167	1.00	50.00	50.00	0.570	0.570	1.00
54	9:28	1.00	1.141	1.00	50.00	50.00	1.127	1.127	1.00
55	9:53	1.00	1.191	1.00	50.00	50.00	0.300	0.300	1.00
56	9:56	1.00	0.869	1.00	50.00	50.00	0.146	0.146	1.00
57	10:02	1.00	0.878	1.00	50.00	50.00	0.640	0.640	1.00
58	10:42	1.00	0.936	1.00	50.00	50.00	0.191	0.191	1.00
59	10:49	1.00	0.946	1.00	50.00	50.00	0.193	0.193	1.00
60	11:24	1.00	0.997	1.00	50.00	50.00	0.127	0.127	1.00
61	11:29	1.00	1.004	1.00	50.00	50.00	1.162	1.162	1.00
62	11:34	1.00	1.012	1.00	50.00	50.00	1.250	1.250	1.00
63	13:30	1.00	1.181	1.00	50.00	50.00	1.692	1.692	1.00
64	14:05	1.00	1.232	1.00	50.00	50.00	1.415	1.415	1.00
65	14:30	1.00	0.839	1.00	50.00	50.00	1.596	1.596	1.00
66	16:44	1.00	0.968	1.00	50.00	50.00	0.824	0.824	1.00
67	17:31	1.00	1.013	1.00	50.00	50.00	0.390	0.390	1.00
68	17:15	1.00	0.998	1.00	50.00	50.00	1.321	1.321	1.00
69	18:19	1.00	1.060	1.00	50.00	50.00	1.254	1.254	1.00
70	17:20	1.00	1.003	1.00	50.00	50.00	1.088	1.088	1.00
71	19:38	1.00	0.973	1.00	50.00	50.00	2.471	2.471	1.00
72	19:31	1.00	0.967	1.00	50.00	50.00	1.479	1.479	1.00
73	19:33	1.00	0.969	1.00	50.00	50.00	1.053	1.053	1.00
74	20:04	1.00	0.994	1.00	50.00	50.00	1.134	1.134	1.00
75	22:04	1.00	1.093	1.00	50.00	50.00	0.786	0.786	1.00
76	22:11	1.00	1.099	1.00	50.00	50.00	0.768	0.768	1.00
77	22:26	1.00	1.111	1.00	50.00	50.00	0.918	0.918	1.00
78	0:29	1.00	0.193	1.00	50.00	50.00	0.994	0.994	1.00
79	14:44	1.00	0.852	1.00	50.00	50.00	0.454	0.454	1.00
80	2:20	1.00	0.933	1.00	50.00	50.00	1.927	1.927	1.00
81	2:45	1.00	1.100	1.00	50.00	50.00	0.870	0.870	1.00
82	12:10	1.00	1.064	1.00	50.00	50.00	1.241	1.241	1.00

000028

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 14-APR-1993
5L Method File Name. kbp0318-1a.met
CC Method File Name. kbc0414w-1a.met
Instrument..... Hewlett-Packard 5890
Operator..... BEDO CASTRO

Compound	MEAN RCF(i)	RSD RCF(0)	% D
T.B.M.E.	0.32385	0.33130	+2.300
Benzene	1.03506	1.05564	+1.988
Fluorobenzene	14248.600	11195.600	-21.427
TFT	0.51982	0.54601	+5.037
Toluene	1.07745	1.18815	+10.274
Chlorobenzene	0.79249	0.70501	-11.039
Ethylbenzene	0.61589	0.56039	-9.012
M,P-Xylene	0.79692	0.77101	-3.252
O-xylene	0.69472	0.69108	-0.525
Bromobenzene	25774.469	23172.660	-10.095
1,3-DCBZ	0.65650	0.73101	+11.350
1,4-DCBZ	0.64067	0.68709	+7.245
1,2-DCBZ	0.62775	0.70156	+11.758

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

012076

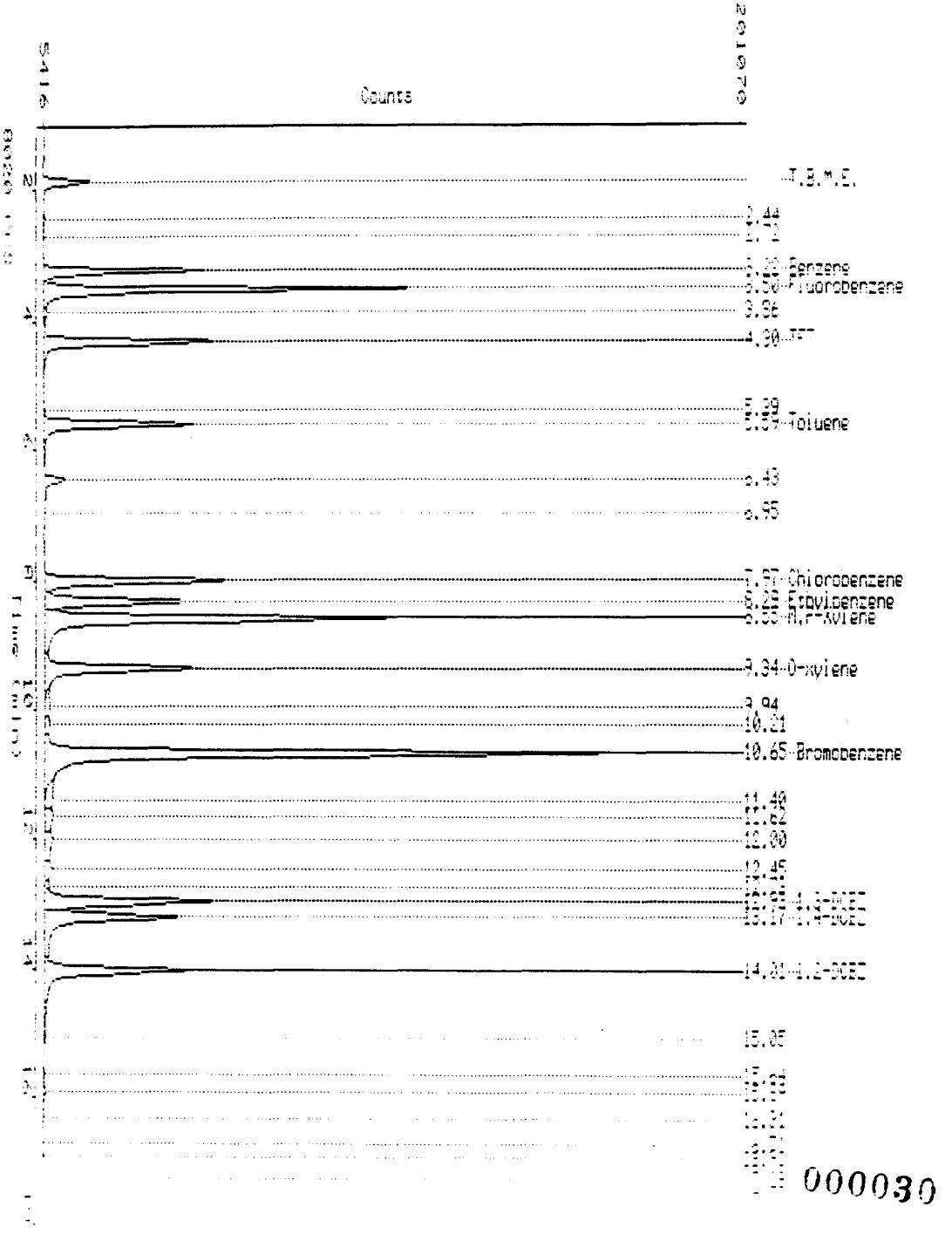
Data file: NAI$DIR:[NAI.BTEX]KAB0414-012

Report: 251909

Acquired: 14-APR-1993 14:19:46

Time range: 1.00-18.00

Vert. scale/offset: 0.8/0



000030

012077

Chester LabNet - HOUSTON

Date..... 14-APR-1993 15:48
Raw file..... KAB0414-012
Method file..... KBC0414W-1A
Last method update.. 14-APR-1993 15:48
Device..... Channel 15A
Acq. date..... 14-APR-1993 14:19
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... 8020 CCS

Report #... 251912
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID .... 8020 CCS
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 CCS

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.218	1.06E+00	20.000	236370		1		
Fluorobenzene	3.503	1.00E+00	50.000	559780		S1		
TFT	4.295	5.46E-01	50.000	305644	R	1		
Toluene	5.586	1.19E+00	20.000	266041		1		
Chlorobenzene	7.974	7.05E-01	20.000	326738		2		
Ethylbenzene	8.293	5.60E-01	20.000	259713		2		
M,P-Xylene	8.553	7.71E-01	40.000	714651		2		
O-xylene	9.335	6.91E-01	20.000	320283		2		
Bromobenzene	10.654	1.00E+00	50.000	1158633		S2		
1,3-DCBZ	12.930	7.31E-01	20.000	338788		2		
1,4-DCBZ	13.173	6.87E-01	20.000	318433		2		
1,2-DCBZ	14.008	7.02E-01	20.000	325142		2		

012078

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

CC Calibration Date. 14-APR-1993
5L Method File Name. kbp0318-1b.met
CC Method File Name. kbc0414w-1b.met
Instrument..... Hewlett-Packard 5890
Operator..... BC

Compound	MEAN RCF(i)	RSD RCF(0)	% D
Benzene	0.85205	0.88701	+4.103
Fluorobenzene	11725.724	17495.561	+49.207
TFT	0.79993	0.81079	+1.358
Toluene	1.06093	1.10065	+3.744
Chlorobenzene	1.23868	1.14403	-7.641
Ethylbenzene	1.54070	1.42235	-7.681
M,P-Xylene	1.62263	1.68366	+3.761
O-xylene	1.76283	1.67328	-5.080
Bromobenzene	9460.062	13864.680	+46.560
1,3-DCBZ	1.06666	1.32171	+23.911
1,4-DCBZ	0.88654	0.90024	+1.546
1,2-DCBZ	1.13511	1.27841	+12.624

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

000032

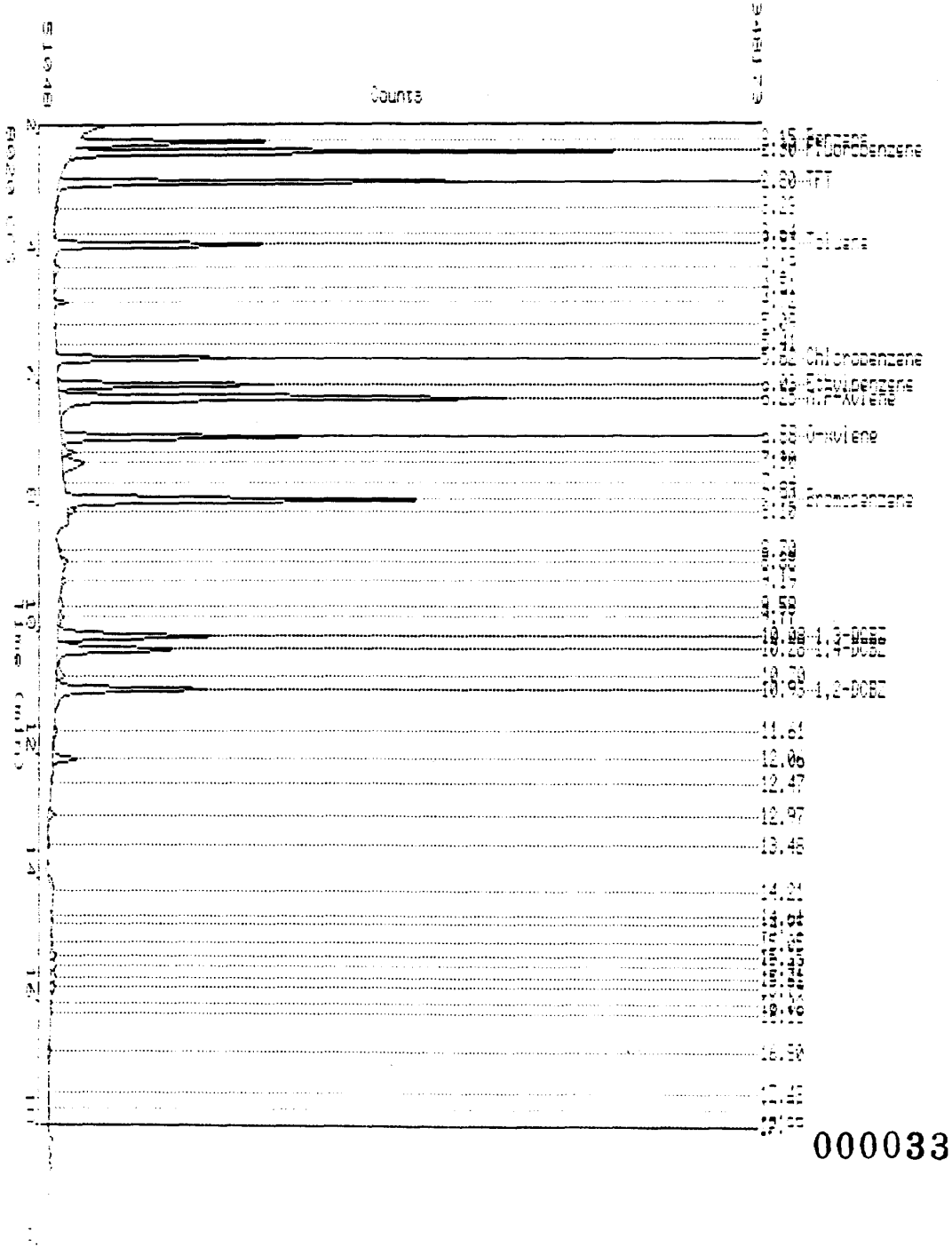
Data file: NAI$DIR:[NAI.BTEX]KP80414-010

Report: 251909

Acquired: 14-APR-1993 14:19:46

Time range: 1.00-20.00

Vert. scale/offset: 0.0/0



012079

000033

012080

Chester LabNet - HOUSTON

Date.....	14-APR-1993 14:53	Report #...	251909
Raw file.....	KBB0414-012	Column ID..	DB5
Method file.....	KBC0414W-1B	Method	SW846 8020
Last method update..	14-APR-1993 14:53	Area rej...	4000
Device.....	Channel 14A	Process #..	1
Acq. date.....	14-APR-1993 14:19	Lab ID	8020 CCS
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	8020 CCS		

Calibration sample name: 8020 CCS

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL Group
Benzene	2.151	8.87E-01	20.000	310373			1
Fluorobenzene	2.299	1.00E+00	50.000	874778			S1
TFT	2.795	8.11E-01	50.000	709263		R	1
Toluene	3.810	1.10E+00	20.000	385131			1
Chlorobenzene	5.616	1.14E+00	20.000	317232			2
Ethylbenzene	6.034	1.42E+00	20.000	394409			2
M,P-Xylene	6.252	1.68E+00	40.000	933735			2
O-xylene	6.881	1.67E+00	20.000	463989			2
Bromobenzene	7.903	1.00E+00	50.000	693234			S2
1,3-DCBZ	10.080	1.32E+00	20.000	366502			2
1,4-DCBZ	10.279	9.00E-01	20.000	249631			2
1,2-DCBZ	10.932	1.28E+00	20.000	354496			2

012081

THE FOLLOWING DATA IS

FOR QA/QC

000035

INST ID: 4510

CHESTER DC # --- - 8

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9B0407C01
DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4010

CHESTER DC # --- - B

SAMPLE NUMBER: SBLK

012083

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 04/08/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 4/7/93
DATE ANALYZED: 04/12/93

DATAFILE: 9B0407C01
DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

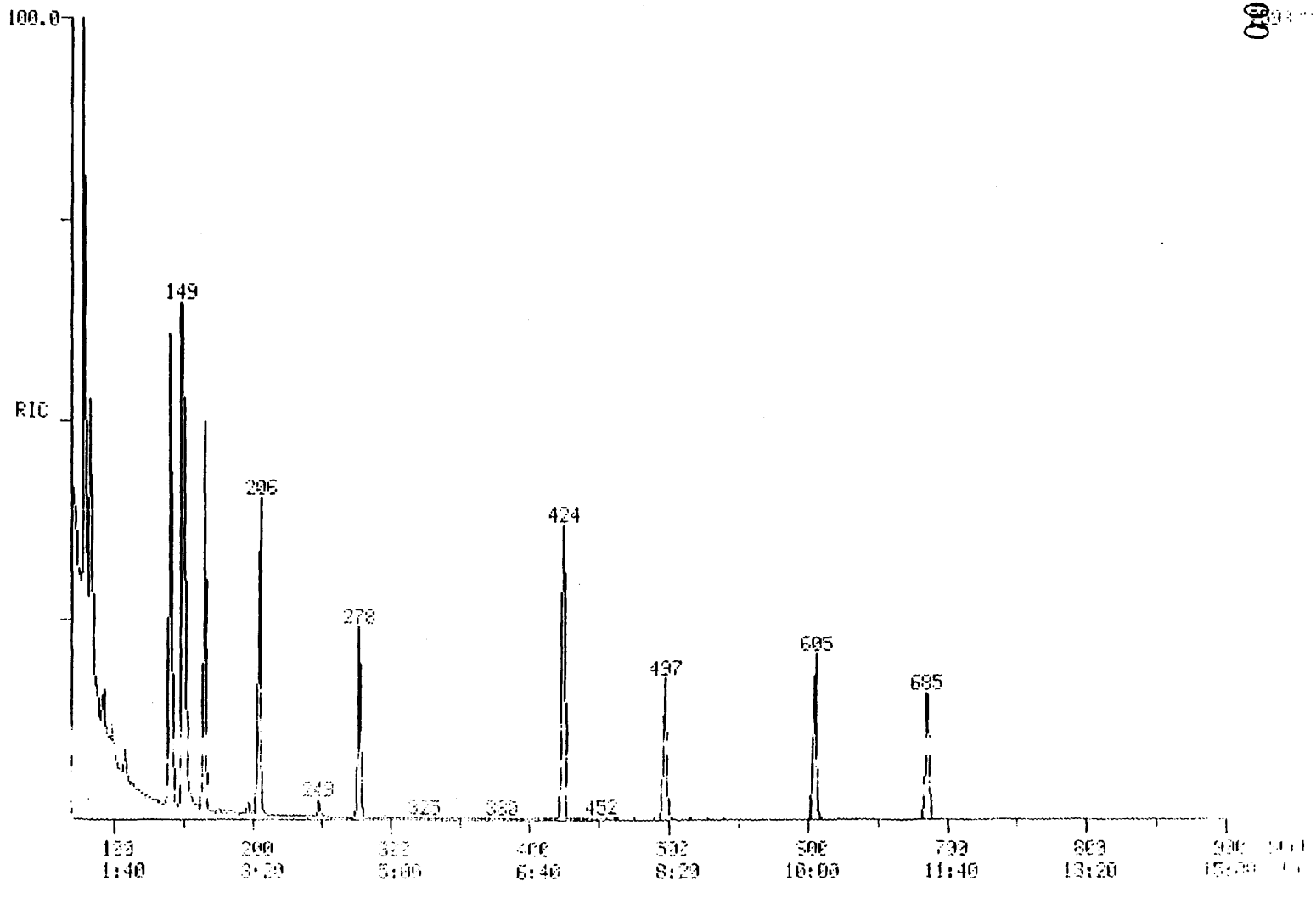
-14

RIC
04/12/93 13:46:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1400 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B0407C01 #1 SCANS 70 TO 900
CALI: 9B0407C01 #3

000038

CHESTER DC # ---



INST ID: 4510

012084

-14

CHESTER DC # ---

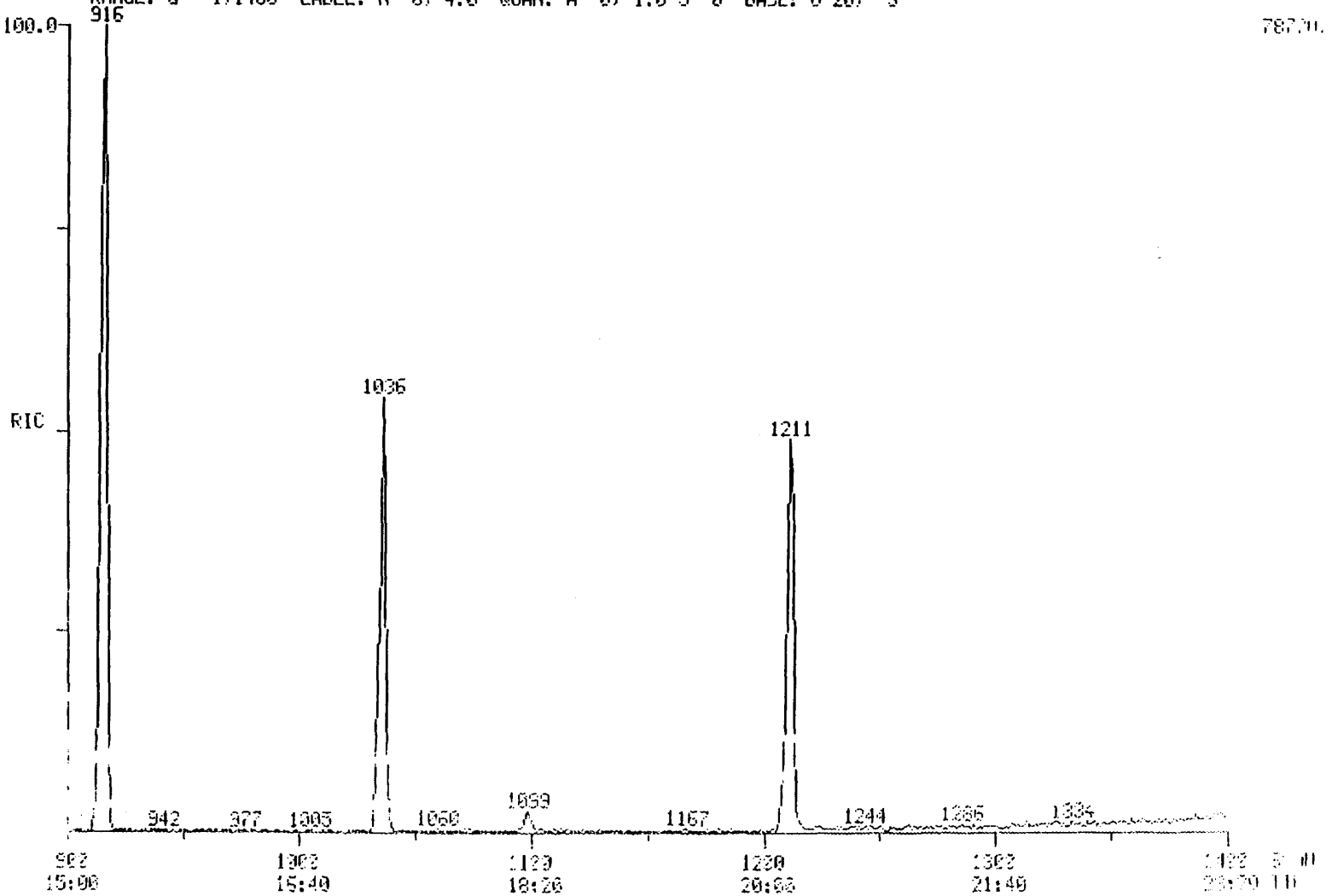
INST ID: 45:0

RIC
04/12/93 13:46:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B0407C01 #1
CALI: 9B0407C01 #3

SCANS 900 TO 1400

000039



012085

012086

SAMPLE ID.	SBLK		
FILENAME	9B0407C01	INST ID.	4510
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	04/12/93 13:46:00	VERIFIED BY	JDD
CALIB STD DATE	04/08/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
100	C130	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	1770
278	C140	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	5799
497	C150	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	3310
685	C160	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	5094
1036	C170	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	4843
1211	C175	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	4631
166	C875	1,2-DICHLOROBENZENE-D4 ** SU	152	80 %	1.107	3067
206	C820	NITROBENZENE-D5 ** SU3 **	82	86 %	0.741	5467
404	C825	2-FLUOROBIPHENYL ** SU4 **	172	84 %	0.853	8265
916	C830	TERPHENYL-D14 ** SU6 **	244	65 %	0.884	10012

012087

Chester LabNet - HOUSTON

Reported on : 15-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.52
Sample ID	: KAB0414-018	Date Received	: 06-APR-1993
Sample Name	: H93-04.52-003	Matrix	: WATER
Project No.	: 18804	Date Collected	: 05-APR-1993
Checked by	: MJM	Client ID	: TRIP BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 14-APR-1993 18:21 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

000041

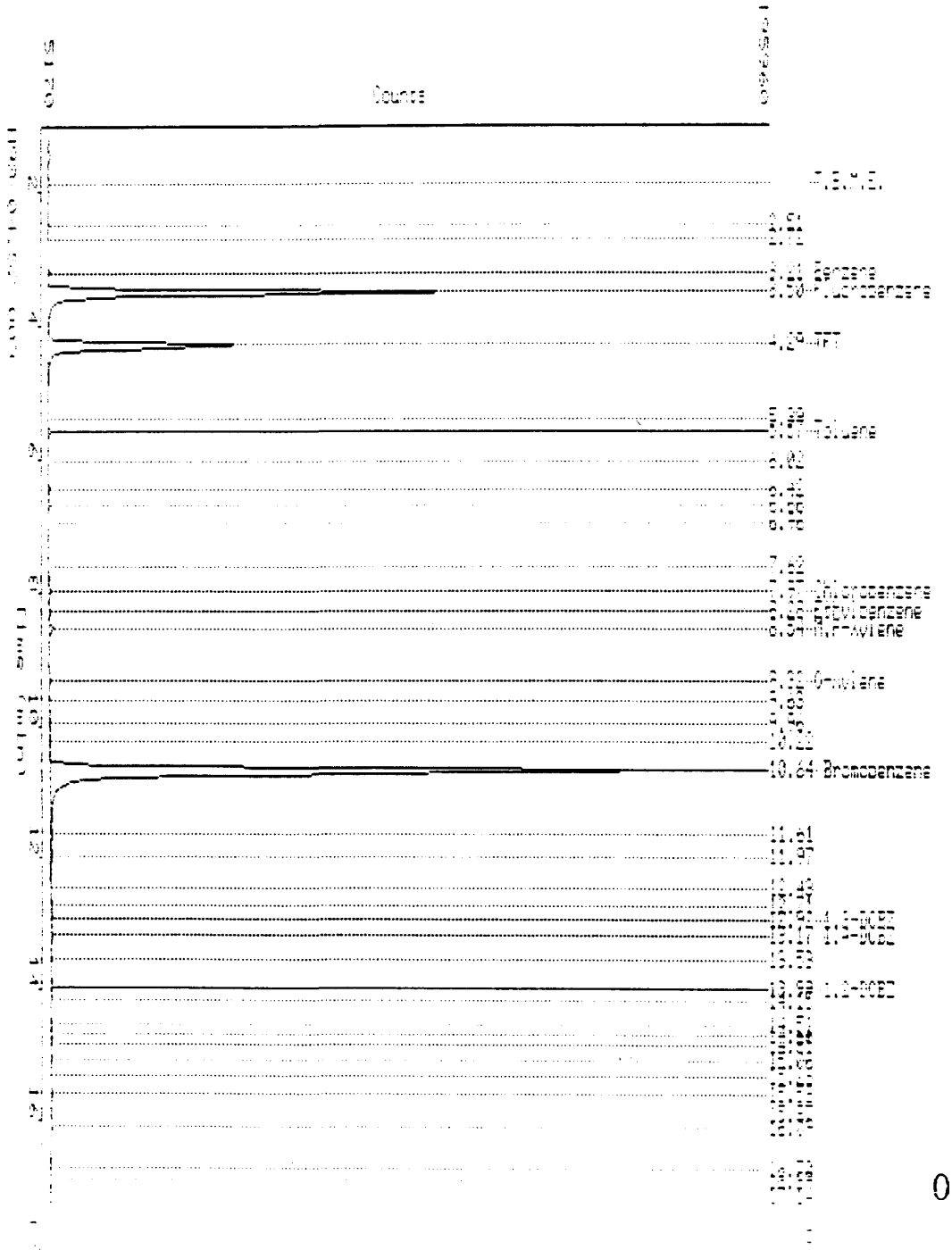
Data file: [illegible]

Report: [illegible]

Acquired: 14-APR-1993 [illegible]

Time range: 1.00-19.00

Vert. scale/offset: 0.5/0



012088

000042

Chester LabNet - HOUSTON

Date.....	15-APR-1993 09:14	Report #...	252005
Raw file.....	KAB0414-018	Column ID..	DB624 Megabore
Method file.....	KBC0414W-1A	Method	0.000000
Last method update..	14-APR-1993 15:48	Area rej...	2000
Device.....	Channel 15A	Process #..	1
Acq. date.....	14-APR-1993 18:21	Lab ID	H93-04.52-003
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	TRIP BLANK		

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.212	0.37	0.233	2844		1	BV	
Fluorobenzene	3.496	0.41		577688		S1	VV	
TFT	4.286	0.52	49.809	314216	R	1	VE	
Toluene	5.568	1.08	0.366	5029		1	EV	
	6.424			2601			BV	
Chlorobenzene	7.965	0.53	0.155	2388		2	BV	
Ethylbenzene	8.278	0.88	0.236	2893		2	VV	
M,P-Xylene	8.537	0.97	0.560	9437		2	VB	
O-xylene	9.320	0.89	0.212	3197		2	BE	
	9.955			2069			BV	
Bromobenzene	10.644	0.59		1093490		S2	VE	
	11.610			10853			EV	
	11.967			7617			EV	
	12.429			3578			EV	
	12.715			3796			VV	
1,3-DCBZ	12.916	0.87	0.292	4664		2	VV	
1,4-DCBZ	13.171	0.12	0.496	7452		2	VV	
	13.532			2095			VV	
1,2-DCBZ	13.985	1.38	0.290	4457		2	VV	
	15.060			2002			VV	
	15.578			3418			BB	
	16.088			3579			BB	
	16.695			3522			BV	
	16.891			4796			VV	
	17.143			3892			VB	
	17.643			8282			BE	
Total:				2104010				

Data file: [illegible]

Report: [illegible]

Acquired: 14-APR-1993 [illegible]

Time range: 1.00-20.00

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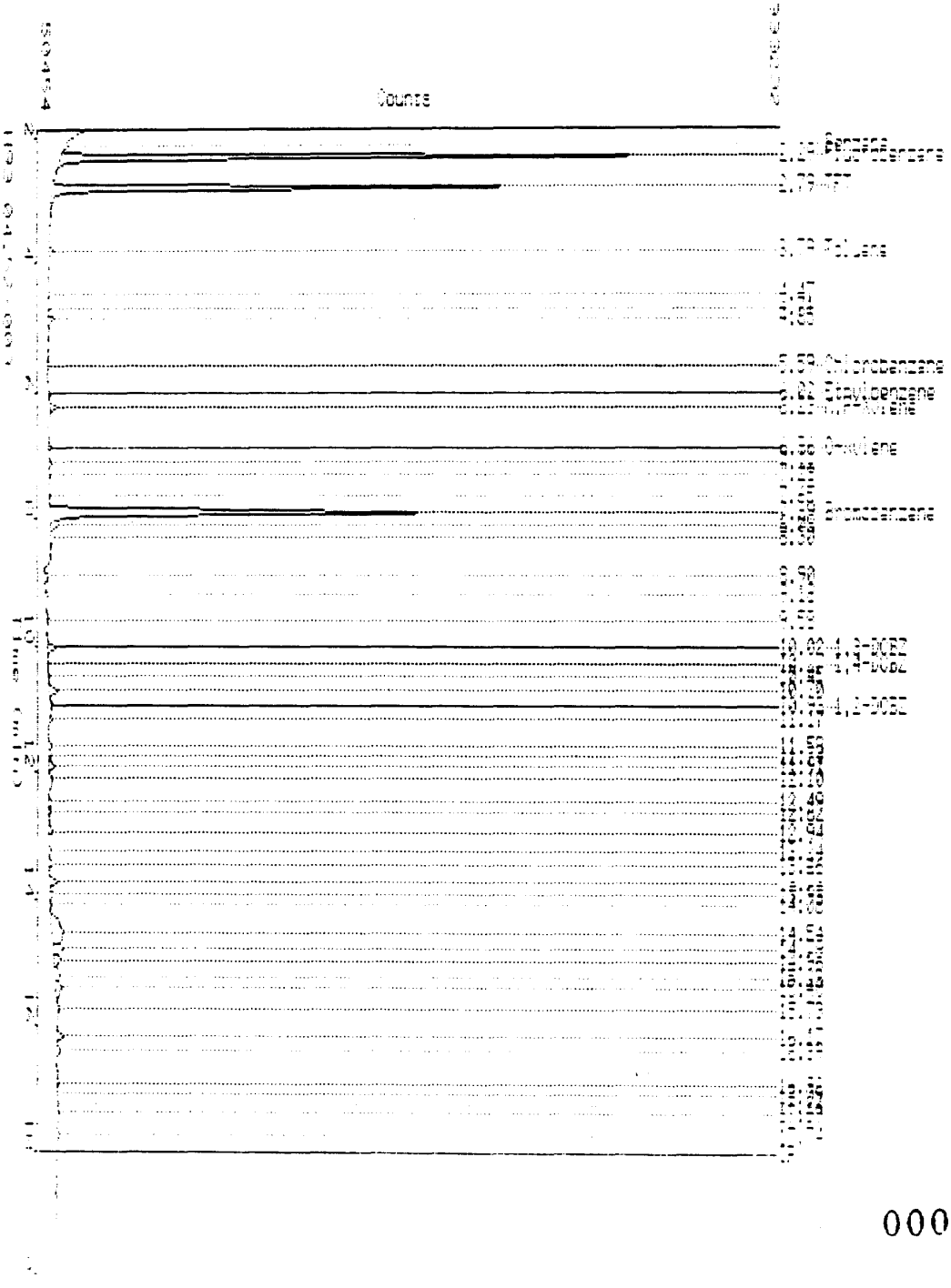


012090

000044

Chester LabNet - HOUSTON

Date..... 15-APR-1993 09:20
Raw file..... KBB0414-018
Method file..... KBC0414W-1B
Last method update.. 14-APR-1993 14:53
Device..... Channel 14A
Acq. date..... 14-APR-1993 18:21
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... TRIP BLANK

Report #... 252013
Column ID.. DB5
Method SW846 8020
Area rej... 4000
Process #.. 1
Lab ID H93-04.52-003
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	1.546			1332094			BB	
Fluorobenzene	2.294	0.33		884293		S1	BB	
TFT	2.786	0.55	50.425	723066	R	1	BB	
Toluene	3.787	1.40	0.512	9961		1	BB	
	4.855			12728			BB	
Chlorobenzene	5.592	1.42	0.303	4831		2	BB	
Ethylbenzene	6.016	1.06	0.308	6111		2	BB	
M,P-Xylene	6.232	1.19	0.582	13663		2	BB	
O-xylene	6.863	1.09	0.338	7883		2	BB	
	7.114			7532			BV	
	7.277			5883			VB	
Bromobenzene	7.891	0.75		697170		S2	BE	
	8.077			21732			EV	
	8.297			15123			EB	
	8.901			12776			BB	
	9.177			7448			BB	
	9.580			8075			BB	
1,3-DCBZ	10.023	3.42	1.352	24911		2	BE	
	10.695			20263			BB	
	11.169			6065			BB	
	11.583			11220			BV	
	11.740			9545			VV	
	11.905			13446			VB	
	12.099			4680			BB	
	12.490			9686			BV	
	12.624			6875			VV	
	12.944			13721			VV	
	13.241			7758			VV	
	13.456			12435			VB	
	13.726			21817			BV	
	13.928			8517			VV	
	14.084			4771			VB	
	14.536			99969			BV	
	14.784			32480			VV	
	14.961			24092			VV	
	15.234			22948			VV	
	15.405			30607			VV	
	15.726			11466			[illegible]	

16.167	17203	BV
16.394	10727	VB
16.923	14223	BB
17.739	7584	BB

Total: 4241900

012092

000046

Chester LabNet - HOUSTON

Reported on : 15-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-04.52
Sample ID	: KAB0414-017	Date Received	: 06-APR-1993
Sample Name	: H93-04.52-001	Matrix	: WATER
Project No.	: 18804	Date Collected	: 05-APR-1993
Checked by	: MJM	Client ID	: LAB BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 14-APR-1993 17:37 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	2.0	2.0 U
108-88-3	Toluene	3.0	3.0 U
100-41-4	Ethylbenzene	3.0	3.0 U
106-42-3	Total Xylenes	3.0	3.0 U

U = Undetected at the Listed Detection Limit.
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

012094

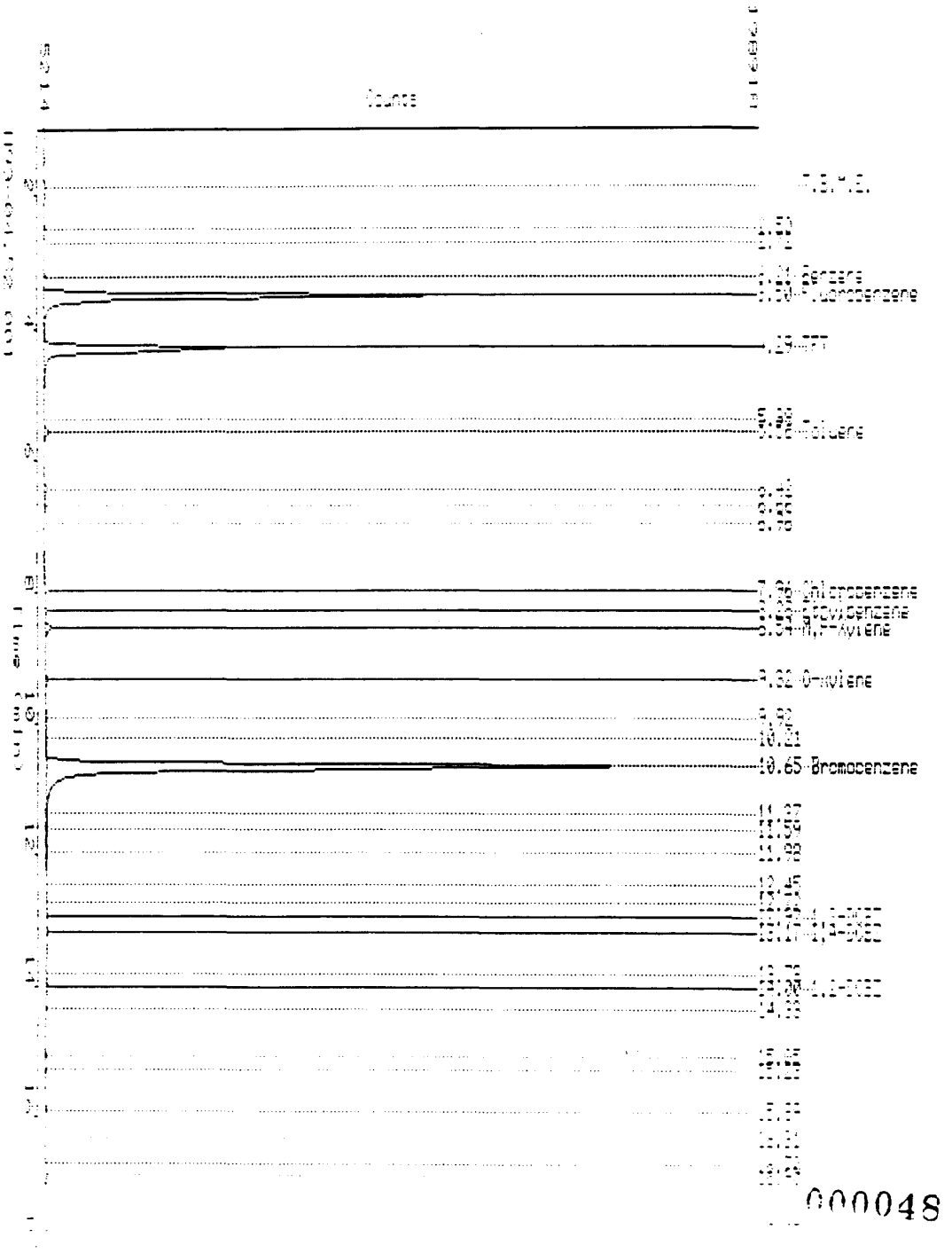
Data file: NAI$DIR:[NAI.BTEX]KAB0414-017

Report: 252003

Acquired: 14-APR-1999 17:37:26

Time range: 1.00-18.00

Vert. scale/offset: 0.8/0



000048

012095

Chester LabNet - HOUSTON

Date..... 15-APR-1993 09:13
Raw file..... KAB0414-017
Method file..... KBC0414W-1A
Last method update.. 14-APR-1993 15:48
Device..... Channel 15A
Acq. date..... 14-APR-1993 17:37
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... LAB BLANK

Report #... 252003
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID H93-04.52-001
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
Benzene	3.212	0.39	0.269	3296		1	BV	
Fluorobenzene	3.497	0.39		580397		S1	VV	
TFT	4.287	0.48	49.666	314781	R	1	VE	
Toluene	5.565	1.27	0.523	7217		1	EB	
	6.424			5479			BV	
	6.665			2646			VE	
Chlorobenzene	7.965	0.55	0.237	3648		2	BB	
Ethylbenzene	8.277	0.95	0.293	3587		2	BV	
M,P-Xylene	8.536	1.03	0.860	14478		2	VB	
O-xylene	9.324	0.68	0.266	4015		2	BB	
Bromobenzene	10.646	0.46		1091872		S2	VE	
	11.368			10930			EV	
	11.592			5946			EV	
	11.976			7784			EV	
	12.446			2169			VV	
1,3-DCBZ	12.918	0.74	0.146	2329		2	VV	
1,4-DCBZ	13.167	0.35	0.235	3521		2	VB	
1,2-DCBZ	14.000	0.50	0.211	3232		2	VV	
	15.052			2081			BV	
	15.279			2219			VB	
	15.886			2700			BV	
	16.902			8678			VV	
	17.774			2856			VB	
Total:				2094760				

012096

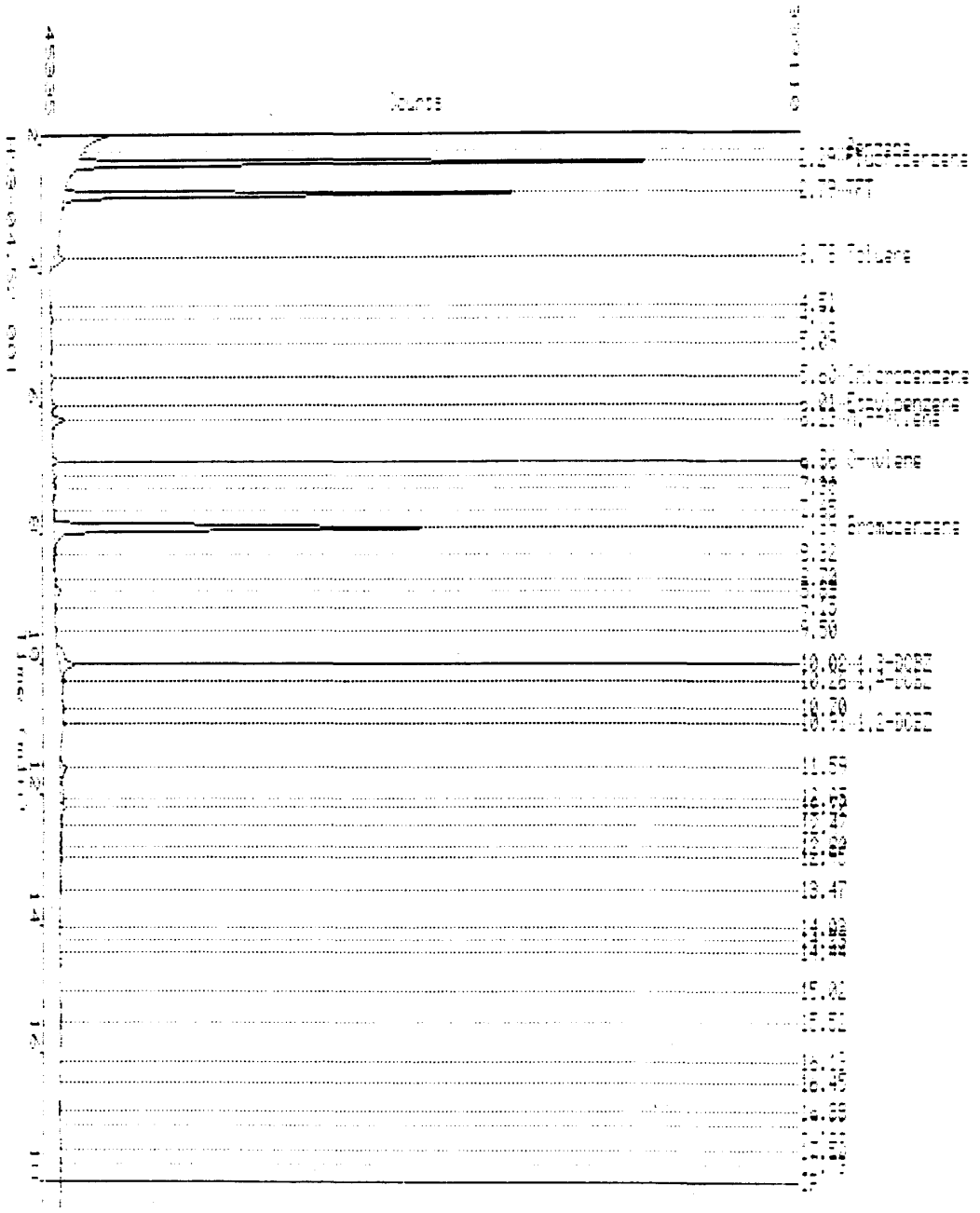
Data file: [illegible]

Record: 252011

Acquired: 14-[illegible]-1995 [illegible]

Time range: 1.00-20.00

Vert. scale/offset: 0.3/0



000050

012096

Chester LabNet - HOUSTON

Date..... 15-APR-1993 09:17
Raw file..... KBB0414-017
Method file..... KBC0414W-1B
Last method update.. 14-APR-1993 14:53
Device..... Channel 14A
Acq. date..... 14-APR-1993 17:37
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... LAB BLANK

Report #... 252011
Column ID.. DB5
Method SW846 8020
Area rej... 4000
Process #.. 1
Lab ID H93-04.52-001
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	1.549			1822633			BB	
Fluorobenzene	2.294	0.31		891706		S1	BB	
TFT	2.786	0.52	50.782	734296	R	1	BB	
Toluene	3.780	1.77	1.749	34339		1	BB	
	4.511			5828			BB	
	4.709			4467			BB	
Chlorobenzene	5.601	0.90	0.288	4748		2	BB	
Ethylbenzene	6.013	1.26	0.450	9214		2	BV	
M,P-Xylene	6.226	1.56	1.346	32619		2	VB	
O-xylene	6.860	1.29	0.504	12146		2	BB	
	7.109			9638			BV	
	7.304			16627			VV	
	7.654			5661			VV	
Bromobenzene	7.893	0.59		719637		S2	VE	
	8.322			9129			EB	
	8.697			4417			BV	
	8.886			26732			VV	
	9.150			6123			VB	
1,3-DCBZ	10.020	3.62	4.826	91810		2	BE	
1,4-DCBZ	10.256	1.37	0.463	6004		2	EB	
	10.698			5823			BV	
1,2-DCBZ	10.914	1.09	0.282	5192		2	VB	
	11.587			25639			BV	
	12.052			14326			VV	
	12.198			13622			VV	
	12.472			6473			VV	
	12.803			6686			VV	
	12.950			9567			VB	
	13.469			4583			BB	

Total: 4567950

012098

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

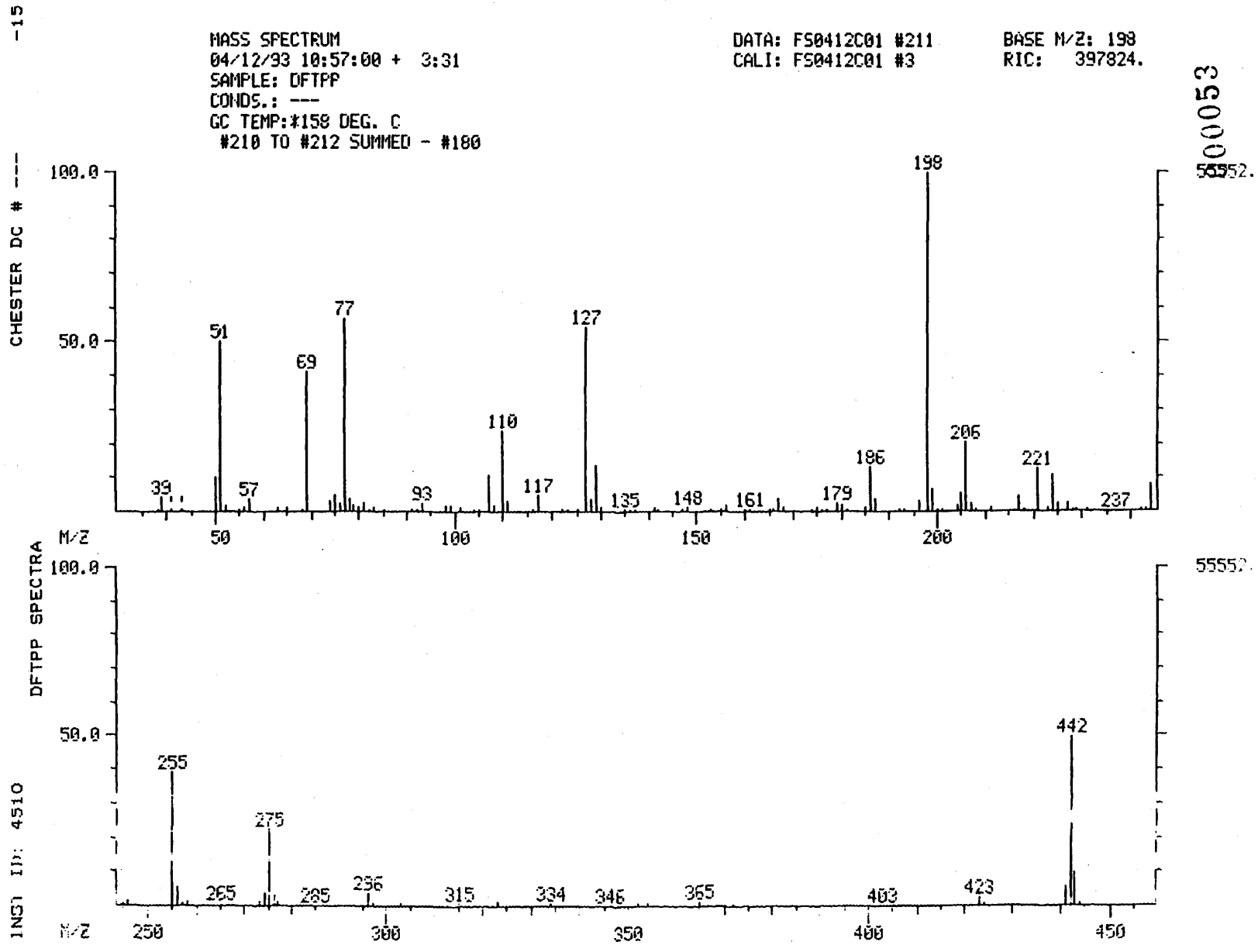
Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/12/93	Sens Time:	10:57:00
Lab ID:	FS0412C01	Cali Date:	04/08/93	Analyst:	JDD

Data release authorized by: Juanita D Drummond

M/E	Ion Abundance Criteria	Spec # 210	
51	30 to 60% of mass 198	50.12	
68	less than 2% of mass 69	0.81	(1.96) 1
69	mass 69 relative abundance	41.53	
70	less than 2% of mass 69	0.23	(0.56) 1
127	40 TO 60% of mass 198	54.32	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.34	
275	10 TO 30% of mass 198	22.06	
365	greater than 1% of mass 198	1.48	
441	less than mass 443	5.39	
442	greater than 40% of mass 198	49.60	
443	17 TO 23% of mass 442	9.30	(18.76) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

000052



000053

012099

012099

INST ID: 4510 CHESTER DC # --- -1

012100

DFTPP MASS LISTING

Mass List Data: FS0412C01 # 211 Base m/z: 198
04/12/93 10:57:00 + 3:31 Cali: FS0412C01 # 3 RIC: 397824.
Sample: DFTPP
Conds.: ---
#210 to #212 summed - #180

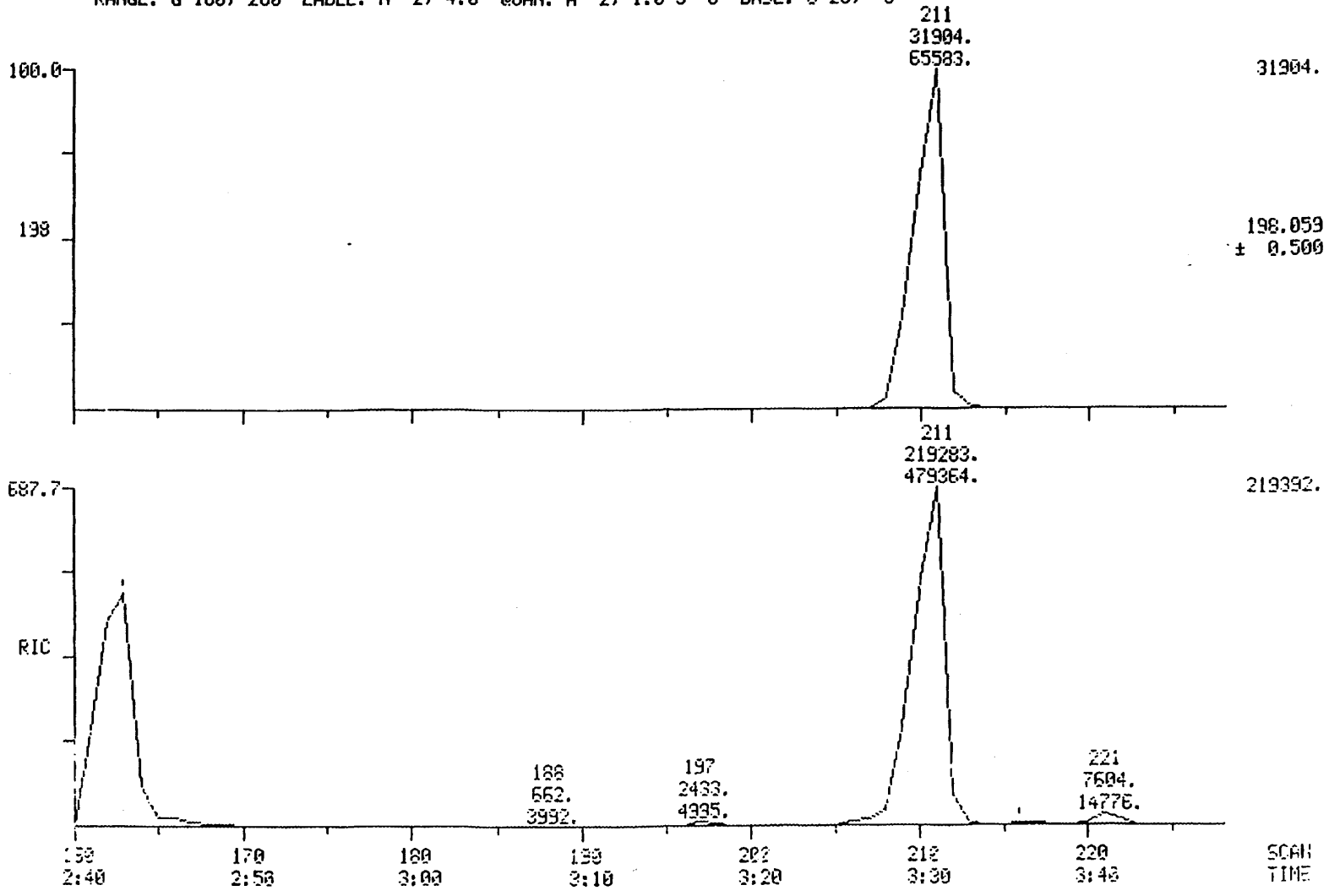
37		0.00	0.	Minima	Min	Inten:	249.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
38?		0.66	369.	175		1.45	808.
39?		4.42	2456.	177		0.48	266.
41	S	0.51	281.	179		2.13	1182.
50		9.99	5552.	180		1.79	992.
51	S	50.12	27840.	181		0.83	462.
52		2.10	1164.	185		0.94	524.
55		0.79	438.	186		13.31	7392.
56		1.23	682.	187		3.71	2060.
57		3.44	1910.	192		0.52	289.
63		1.22	679.	193		0.74	410.
65		0.93	518.	196		2.94	1632.
68		0.81	451.	198		100.00	55552.
69		41.53	23072.	199		6.34	3520.
74		2.71	1508.	204		2.06	1142.
75		5.03	2796.	205		5.12	2844.
76		2.15	1196.	206		20.59	11440.
77		56.74	31520.	207		2.38	1324.
78		3.43	1906.	211		1.02	569.
79		1.59	885.	217		4.29	2384.
80		1.41	782.	218		0.57	319.
81		2.37	1314.	221		12.67	7040.
82		0.59	329.	223		0.94	521.
83		1.15	639.	224		10.74	5968.
93		2.68	1488.	225		2.64	1466.
98		2.04	1136.	227		2.69	1494.
99		1.79	992.	229		0.80	444.
101		1.21	671.	244		7.56	4200.
104		0.53	297.	245		0.89	493.
105		0.52	288.	246		1.10	612.
107		11.02	6120.	255		38.65	21472.
108		1.82	1012.	256		5.50	3056.
110		24.22	13456.	258		1.43	794.
111		3.07	1704.	265		0.57	319.
117		5.08	2824.	273		1.06	588.
123		0.68	375.	274		3.59	1994.
127		54.32	30176.	275		22.06	12256.
128		3.86	2144.	276		2.79	1548.
129		13.95	7752.	277		1.25	694.
130		0.98	543.	296		3.31	1838.
135		0.84	466.	303		0.45	251.
137		0.45	250.	323		1.37	762.
141		1.28	711.	334		0.82	455.
147		0.60	336.	354		0.45	252.
148		1.20	668.	365		1.48	824.
155		0.65	360.	372		0.60	331.
156		1.84	1023.	423		2.47	1370.
161		0.86	475.	441		5.39	2996.
167		3.52	1956.	442		49.60	27552.
168		1.11	617.	443		9.30	5168.
174		0.53	296	444		0.74	411.

000054

000055

RIC+MASS CHROMATOGRAM
04/12/93 10:57:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 160, 260 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3

DATA: FS0412C01 #210 SCANS 160 TO 228
CALI: FS0412C01 #3



012101

012101

TABLE 2
PROPOSED SAMPLE NUMBERS AND ANALYSIS FOR PRE-TREATMENT WATER TEST

SAMPLE TYPE	MEDIUM	PROPOSED NUMBER OF SAMPLES	ANALYTICAL TECHNIQUE	ANALYSIS/ EPA METHOD*	DQO LEVEL	FIELD EQUIPMENT WASH BLANKS	TRIP BLANKS	FIELD DUPLICATE
Soil washing wastewater prior to discharge to groundwater treatment plant	Water	1 (3)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr, Cu, Zn, Pb (6010)	III	1	1	1
Recycled Wash Water	Water	5 (4)	Laboratory Analysis	pH (150.1) TOC (415.1) COD (410.1) TSS (160.2) TDS (160.1) cPAH (8270) BTEX (8020) As (7060) Cr	III	1	1	1

* EPA Method and SW 846 Test Methods for Evaluating Solid Waste, 3rd ed., 1987.

Notes:

(1) Field equipment wash blanks and field duplicates do not apply to the following physical/conventional parameters (pH, COD, TDS).

(2) Trip blank analyzed for BTEX only.

(3) Assumes one discharge to the groundwater treatment plant during the soil washing demonstration test.

(4) Daily composite of grab samples collected every 2 hours.

7-APR-1993

P 012103

KEYSTONE LAB - HOUSTON
Job Summary Sheet

PRIORITY

Produced on 7-APR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-04.52
Due Date : 9-APR-1993
Date Rec'd : 6-APR-1993
Project ID :
P.O. Number: 18804

Attention:

Contact: BRUCE HICKMAN

Job Description: DAMES & MOORE (RCRA)
Number of samples: 3 Sampled by: CLIENT

Job Comments:
RUSH!! 72 HOUR TURNAROUND. RESULTS DUE 4/09/93. MS_SV:FOR SV_TCL,PLEASE ANALYZE FOR PAH'S.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
52-001	LAB BLANK	QA_QC	WATER	5-APR-93
52-002	SC-RW-E	X	WATER	5-APR-93
52-003	TRIP BLANK	X	WATER	5-APR-93

Analysis ID	Parameter Description	Number of Analyses
AS_ICP	Arsenic(ICP)	2
BTEX_8020	BTEX by Method 8020	3
COD	Chemical Oxygen Demand	2
CR	Chromium	2
EXT_8270	Extraction by EPA 8270	2
PH	Hydrogen ion activity (EPA 150.1)	2
SV_TCL	Semivolatiles (Target Compound List)	2
TDS	Total Dissolved Solids(EPA 160.1)	2
TOC	Total Organic Carbon	2
TSS	Total Suspended Solids	2

000057

012104

Report
Prepared
for

Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Attention : Bruce Hickman

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER :

WORK ORDER : H93-03.248
DATE RECEIVED : 29-MAR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-03.248-001	LAB BLANK	26-MAR-1993	WATER
H93-03.248-002	PADS STORM WATER	26-MAR-1993	WATER

Analysis ID	Parameter Description
AG	Silver
AS_GF	ARSENIC BY GRAPHITE FURNACE
BOD5	Biochemical Oxygen Demand (5 Day)
BTEX_8020	BTEX by Method 8020
CD	Cadmium
CR_III	(AS)Trivalent Chromium
CR_VI	(AS)Hexavalent Chromium
CU	Copper
EXT_8040	EXTRACTION BY GC8040
EXT_8270	Extraction by EPA 8270
GC_8040	GC_8040 FOR WATER
HARDNESS	Hardness
HG	Mercury
NI	Nickel
OILS	Oil/Grease, Total Recoverable Gravimetric
PB	Lead
PH	Hydrogen ion activity (EPA 150.1)
SE_GF	SELENIUM BY GRAPHITE FURNACE
SV_TCL	Semivolatiles (Target Compound List)
TOC	Total Organic Carbon
TSS	Total Suspended Solids
ZN	Zinc

012106

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:NA

PROJECT NO.: 18804-168

SITE: S. CAVALCADE

LAB NO.:H93-03.248

I. RECEIPT

A. DATE: MAR. 29, 1993

B. NO. OF SAMPLES: 1 SAMPLE.

C. CLIENT ID NUMBERS: PADS STORM WATER

D. SAMPLE TYPE: WATER

E. ANALYSIS REQUESTED: PAH (Method 8270); Phenolics (Method 8040); BTEX (Method 8020); Metals (AS,CD,CU, PB,HG,NI,SE,AG,ZN,CR III,CR VI); Cyanide; pH; Oils & Grease; Hardness; TOC; BOD; TSS.

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: Parameter requirements for Storm Water Runoff are Site specific for Discharge according to QAPP (South Cavalcade).
* Hexavalent Chromium can be found with Work Order H93-03.284.

I. COMMENTS:

According to Contract, all sample data Faxed (4/2/93) as a prelimiary to receival of Data Package.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 07, 1993

Date

000001

012107

Keystone Lab - Houston
Water Surrogate Recovery Summary
Keystone Work Order # H93-03.248

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK	53	53	57	63	64	59	50	51
PADS STORM WATER	59	47	35	62	60	53	52	52

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	35-114	S2 (FBP) = 2-Fluorobiphenyl	43-116
S3 (TPH) = Terphenyl-d14	33-141	S4 (PHL) = Phenol-d5	10-110
S5 (2FP) = 2-Fluorophenol	21-110	S6 (TBP) = 2,4,6-Tribromophenol	10-123
S7 (2CP) = 2-Chlorophenol-d4	33-110**	S8 (DCB) = 1,2-Dichlorobenzene-d4	16-110**

0 out of 16 : outside of QC limits.

* = Values are outside of QC limits ** = Advisory QC Limits NA = Not Applicable

Ask lab recovery for w...

012108

Chester LabNet

SURROGATE RECOVERY

Client : Dames & Moore

Keystone WO: H93-03.248

SAMPLE NO.	TFT % RECOVERY	2-Fluoro-phenol % RECOVERY
1. LAB BLANK	70	59
2. PADS STORM WATER	69	56

Biased low

* Values outside of Advisory QC limits.
D Surrogates diluted out
** Interference

TFT = TRIFLUOROTOLUENE

ADVISORY QC LIMITS (65 - 120%)

Summary of Analytical Results

Date received: 29-MAR-1993 Customer: Dames and Moore Job name: H93-03.248

		Samples	
Chester LabNet ID		248-001	248-002
Sampling Point		QA QC	X
Date Sampled		26-MAR-1993	26-MAR-1993
Customer ID		LAB BLANK	PADS STORM WATER
Parameters	**Units**		
METALS			
Silver	µg/L	<3.0	<3.0
Arsenic	µg/L	<2.0	<2.0
Mercury	µg/L	<0.2	<0.2
Nickel	µg/L	<15.0	<15.0
Lead	µg/L	<23.0	<3.0
Selenium	µg/L	<3.0	<3.0
Cadmium	µg/L	<4.0	<4.0
Chromium III	µg/L	<1.0	6.0
Copper	µg/L	<3.0	12.0
Zinc	µg/L	<1.0	44.0
CONVENTIONAL CHEMISTRIES			
BOD (5 day)	mg/L	<1.0	19.0
Hardness	mg/L	<2.0	10.0
Oil and Grease	mg/L	<5.0	9.03
pH	pH units	7.27	7.74
Total Organic Carbon	mg/L	<1.0	12.3
Total Suspended Solids	mg/L	<2.0	15.0
BTEX 8020			
Benzene	µg/L	<0.25	0.45
Toluene	µg/L	<0.50	0.32 J
Ethyl Benzene	µg/L	<0.50	<0.50
GC 8040			
Phenol	µg/L	<0.60	<0.60
2,4-Dimethylphenol	µg/L	<0.50	<0.50
Pentachlorophenol	µg/L	2.5	2.5

Reading "11" from pg 11

J = COMPOUND IS PRESENT, BUT BELOW THE DETECTION LIMIT.
** = RESULTS TO BE REPORTED AT A LATER DATE.

Call LAB FOR explain on pentachlorophenol

Summary of Analytical Results

Date received: 29-MAR-1993 Customer: Dames and Moore Job name: H93-03.248

		Samples	
Chester LabNet ID		248-001	248-002
Sampling Point		QA QC	X
Date Sampled		26-MAR-1993	26-MAR-1993
Customer ID		LAB BLANK	PADS STORM WATER
Parameters	Units		
PAH			
Naphthalene	µg/L	<10.0	<10.0
Acenaphthylene	µg/L	<10.0	<10.0
Acenaphthene	µg/L	<10.0	<10.0
Fluorene	µg/L	<10.0	<10.0
Phenanthrene	µg/L	<10.0	<10.0
Anthracene	µg/L	<10.0	<10.0
Fluoranthene	µg/L	<10.0	<10.0
Pyrene	µg/L	<10.0	<10.0
Benzo(a)anthracene	µg/L	<10.0	<10.0
Chrysene	µg/L	<10.0	<10.0
Benzo(b)Fluoranthene	µg/L	<10.0	<10.0
Benzo(k)fluoranthene	µg/L	<10.0	<10.0
Benzo(a)pyrene	µg/L	<10.0	<10.0
Dibenzo(a,h)anthracene	µg/L	<10.0	<10.0
Benzo(ghi)perylene	µg/L	<10.0	<10.0
Indeno(1,2,3-cd)pyrene	µg/L	<10.0	<10.0

012111

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: PADS STORM WATER

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930324802
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: .....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: 3/29/93

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 04/01/93

DATAFILE: 9U03248C02

DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

012112

CHESTER DC # --- - 8

INST ID: 4310

SAMPLE NUMBER: PADS STORM WATER

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 930324802
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: ...RB...

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: ..3/29/93...

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: ..3/29/93.....
DATE ANALYZED: 04/01/93

DATAFILE: 9U03248C02

DILUTION FACTOR: ....1.....

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

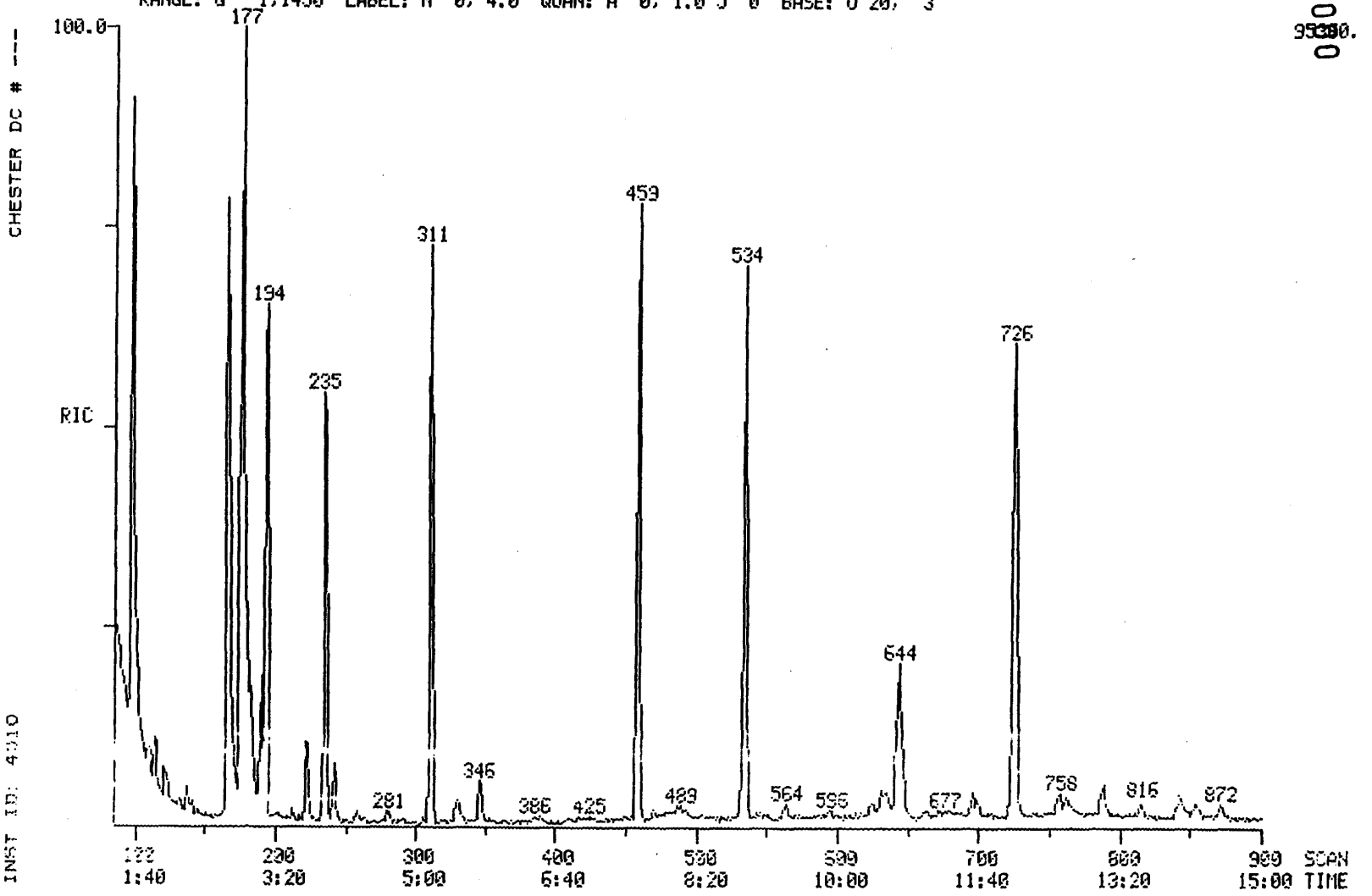
U : UNDETECTED AT THE LISTED DETECTION LIMIT
J : COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

-14

RIC
04/01/93 13:03:00
SAMPLE: PADS STORM WATER
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U03248C02 #1 SCANS 85 TO 900
CALI: 9U03248C02 #3

000008

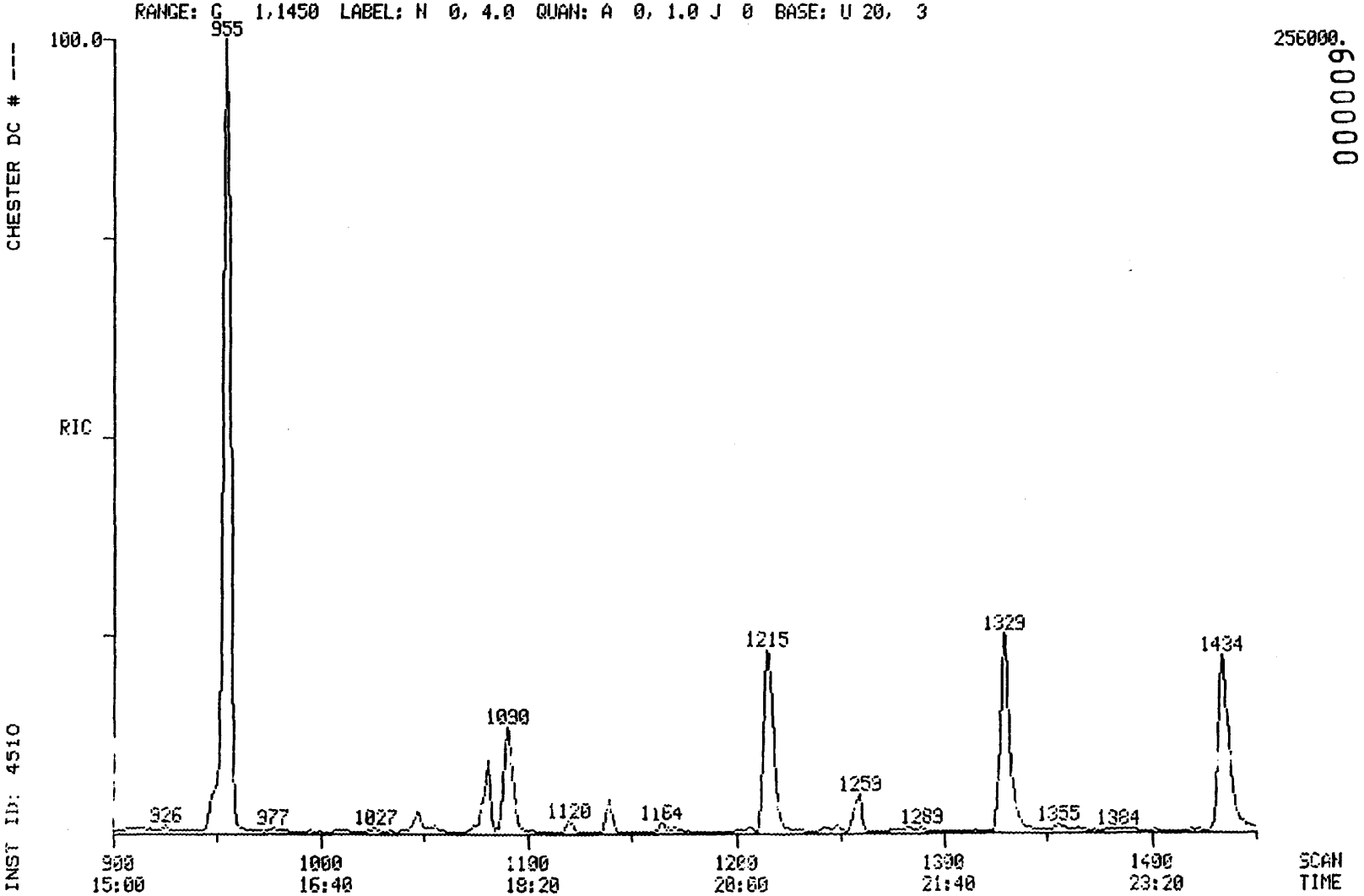


95380.

012113

RIC
04/01/93 13:03:00
SAMPLE: PADS STORM WATER
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9U03248C02 #1 SCANS 900 TO 1450
CALI: 9U03248C02 #3



CHESTER DC # ---
INST ID: 4510
-14

000009

012114

CHESTER DC # --- -14

SEMIVOLATILE WATER REPORT

SAMPLE ID.	PADS STORM WATER		
FILENAME	9U03248C02	INST ID.	4510
CLIENT	DAMES&MO	ANALYST	JDD
DATE INJECTED	04/01/93 13:03:00	VERIFIED BY	JDD
CALIB STD DATE	03/30/93	CORR. FACTOR	1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	AREA
177	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	186C
311	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	7329
534	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	4756
726	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	7242
1081	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	293E
1258	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	185C
97	CS50	2-FLUOROPHENOL ** SU1 **	112	60 %	0.548	6537
175	CS45	PHENOL-D5 ** SU2 **	99	62 %	0.989	932C
644	CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	53 %	1.206	87C
166	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	52 %	0.938	723C
193	CS75	1,2-DICHLOROBENZENE-D4 ** SU	152	52 %	1.090	211E
235	CS20	NITROBENZENE-D5 ** SU3 **	82	59 %	0.756	3879
459	CS25	2-FLUOROBIPHENYL ** SU4 **	172	47 %	0.860	6794
957	CS30	TERPHENYL-D14 ** SU6 **	244	35 %	0.885	3481

Chester LabNet - HOUSTON

Reported on : 1-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-03.248
Sample ID	: HBP0331-015	Date Collected	: 26-MAR-1992
Sample Name	: H93-03.148-002	Matrix	: WATER
Project No.	:	Date Received	: 29-MAR-1992
Client ID	: PADS STORM WATER	Date Extracted	: 30-MAR-1992
		Checked by	: MSM

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8040

Date Analyzed : 31-MAR-1993 19:48 Dilution Factor : 1.000
Analyzed by : 8388671

Cas #	Compound	Detection Limits	Detected Conc. ug/l	
108-95-2	PHENOL	0.60	0.60	U
105-67-9	2,4-DIMETHYLPHENOL	0.50	0.50	U
87-86-5	PENTACHLOROPHENOL	2.5	2.5	U ?

U = Undetected at the Listed Detection Limit .
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

012117

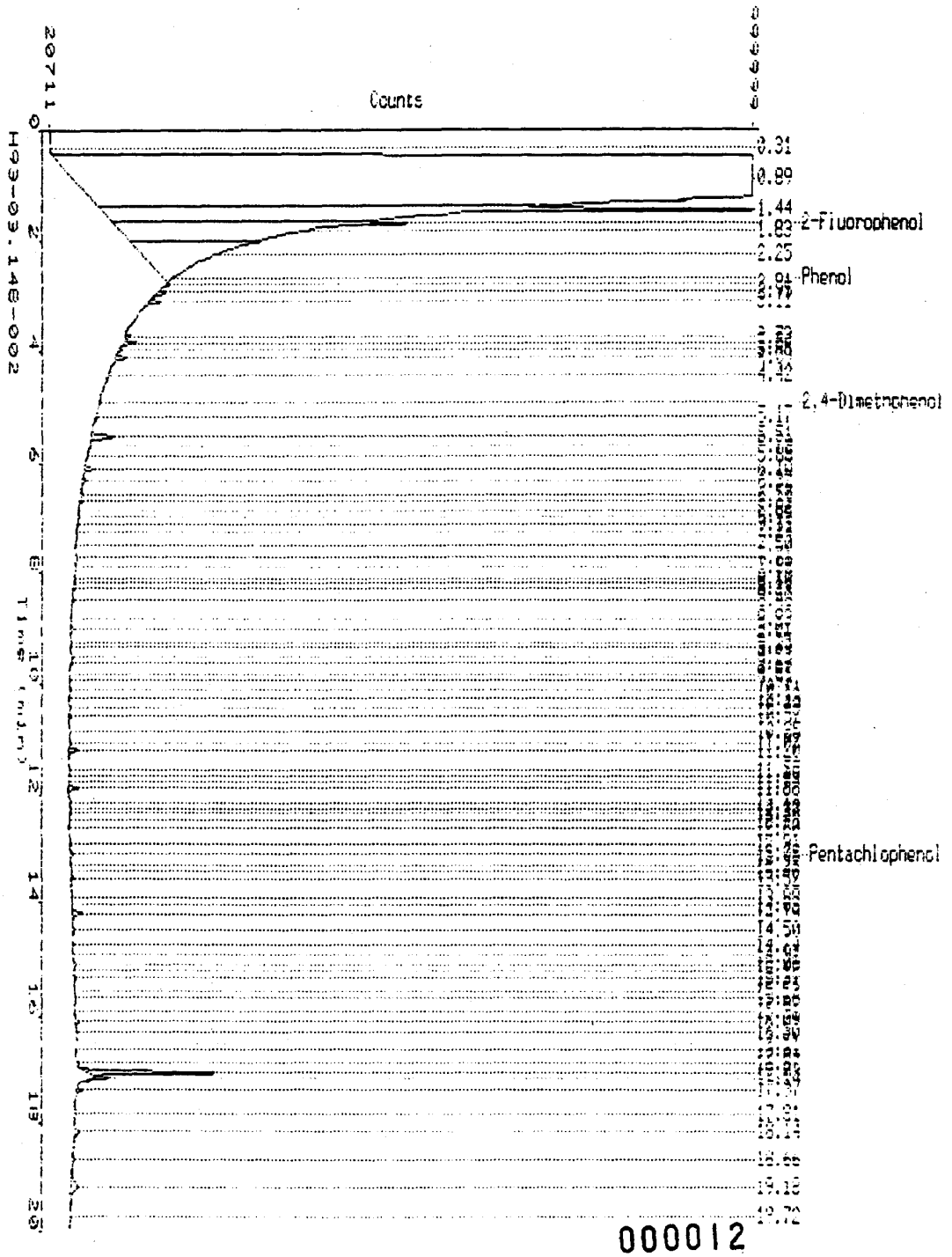
Data file: NAI$DIR:[NAI.TPH]HER0331-015

Report: 247918

Acquired: 31-MAR-1993 19:48:02

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



000012

Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:53:32.20 Report number.....247918
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-015.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;23
Last method update... 1-APR-1993 08:53:24.00 Area rejection.....4000
Device.....Channel 13A Reprocess number.....1
Acq. date.....31-MAR-1993 19:48:02 Sample name....H93-03.148-002
Notes.....PADS STORM WATER
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

EXTERNAL SAMPLE ANALYSIS Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	PPM	Peak Area	Ref Std	BL	Group
	0.306			9776		BB	
	0.892			52235305		BV	
	1.444			8349363		VV	
	1.826			5765857		VV	
	2.250			3245120		VB	
	2.806			9075		BB	
	2.949			58116		BB	
	3.110			49467		BB	
	3.728			23273		BB	
	3.836			52727		BB	
	3.949			7897		BB	
	4.088			54075		BB	
	4.416			12458		BB	
	5.168			12564		BB	
	5.511			142596		BB	
	5.697			7598		BB	
	6.102			44182		BB	
	6.318			11822		BB	
	6.567			12614		BB	
	6.692			5564		BB	
	6.951			7485		BB	
	7.105			4463		BB	
	7.239			8537		BB	
	8.178			7213		BB	
	8.286			7943		BB	
	8.484			7567		BB	
	8.829			6149		BB	
	9.012			22355		BB	
	9.515			18341		BB	
	9.625			8713		BB	
	10.114			7466		BB	
	10.430			9903		BB	
	10.568			20859		BB	
	10.852			16487		BB	
	11.066			11205		BB	
	11.198			49892		BB	
	11.549			8809		BB	
	11.884			50588		BB	

012119

	12.145			15904	BB
	12.344			6115	BB
	12.913			21270	BB
Pentachlophenc	13.085	5.36	8.161	24317	BB
	13.398			8419	BB
	13.518			14244	BB
	13.878			10817	BB
	14.031			4519	BB
	14.188			62255	BB
	14.504			25093	BB
	14.743			8335	BB
	14.906			12518	BB
	15.089			17650	BB
	15.313			23112	BB
	15.531			7081	BB
	15.661			7297	BB
	16.093			26132	BB
	16.302			10192	BB
	16.507			8894	BB
	16.868			11899	BB
	17.031			671262	BB
	17.138			75969	BB
	17.366			30805	BB
	17.813			26555	BB
	18.140			48299	BB
	18.661			16086	BB
	19.185			129383	BB
	19.721			10135	BB
Total:				71718000	

Date..... 1-APR-1993 10:20:20.54
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-015
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B
Acq. run time.....19.983 min Acq. sample rate....1 pt(s)/sec
Acq. date.....31-MAR-1993 19:48:02

Sample name.....H93-03.148-002

MANUAL BASELINE AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref	Std	BL	R	Peak Name
1	1.692	142193	62997	100.000			MM		2-Fluorophenol
Totals		142193		100.000					

Chester LabNet - HOUSTON

Reported on : 2-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-03.248
Sample ID	: MAB0330-010	Date Received	: 29-MAR-1993
Sample Name	: H93-03.248-002	Matrix	: WATER
Project No.	:	Date Collected	: 26-MAR-1993
Checked by	:	Client ID	: PADS STORM WATER

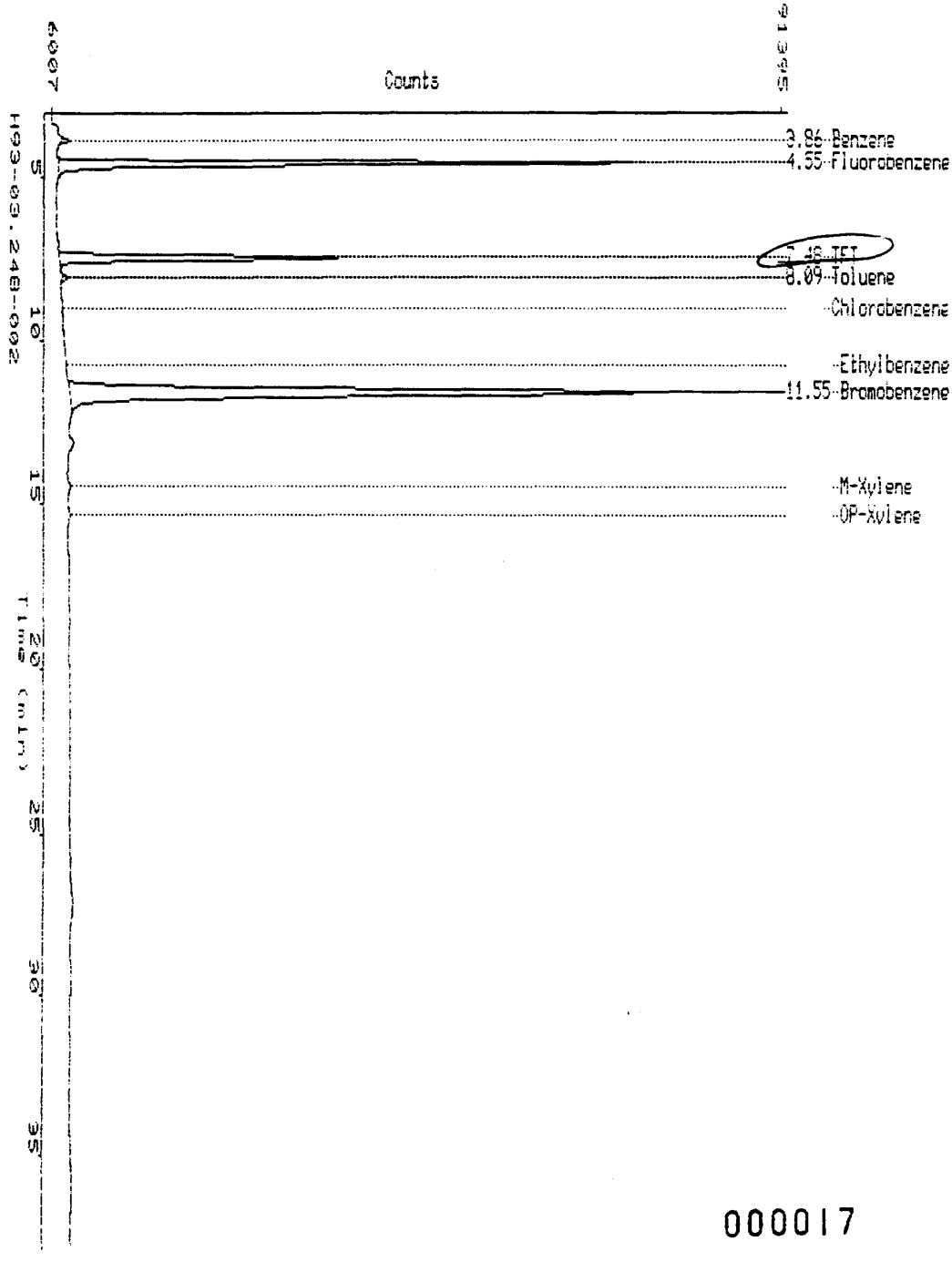
Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 30-MAR-1993 19:41 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	0.25	0.45
108-88-3	Toluene	0.50	0.32 J
100-41-4	Ethylbenzene	0.50	0.50 U
106-42-3	Total Xylenes	0.50	0.50 U

U = Undetected at the Listed Detection Limit .
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

Data file: NAI$DIR:[NAI.BTEX]MAR0330-010
Report: 248254
Acquired: 30-MAR-1993 19:41:03
Time range: 3.00-38.00
Vert. scale/offset: 0.8/0



012123

Chester LabNet - HOUSTON

Date..... 1-APR-1993 16:35
Raw file..... MAB0330-010
Method file..... MBC0330-1A
Last method update.. 1-APR-1993 16:34
Device..... Channel 12A
Acq. date..... 30-MAR-1993 19:41
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... PADS STORM WATER

Report #... 248254
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 2
Lab ID H93-03.248-002
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

I — Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	0.556			16124			BV	
	1.047			8750			VB	
Benzene	3.859	1.87	0.448	6628		1	BB	
Fluorobenzene	4.552	2.25		592387		S1	BB	
TFT	7.478	1.29	50.682	319337	R	1	BB	
Toluene	8.095	1.50	0.317	4563		1	BB	
Bromobenzene	11.555	0.93		1074413		S2	BB	
Total:				2023130				

000018

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/01/93	Sens Time:	9:13:00
Lab ID:	FS0401C01	Cali Date:	03/30/93	Analyst:	JDD

Data release authorized by: Juanita D Drummond

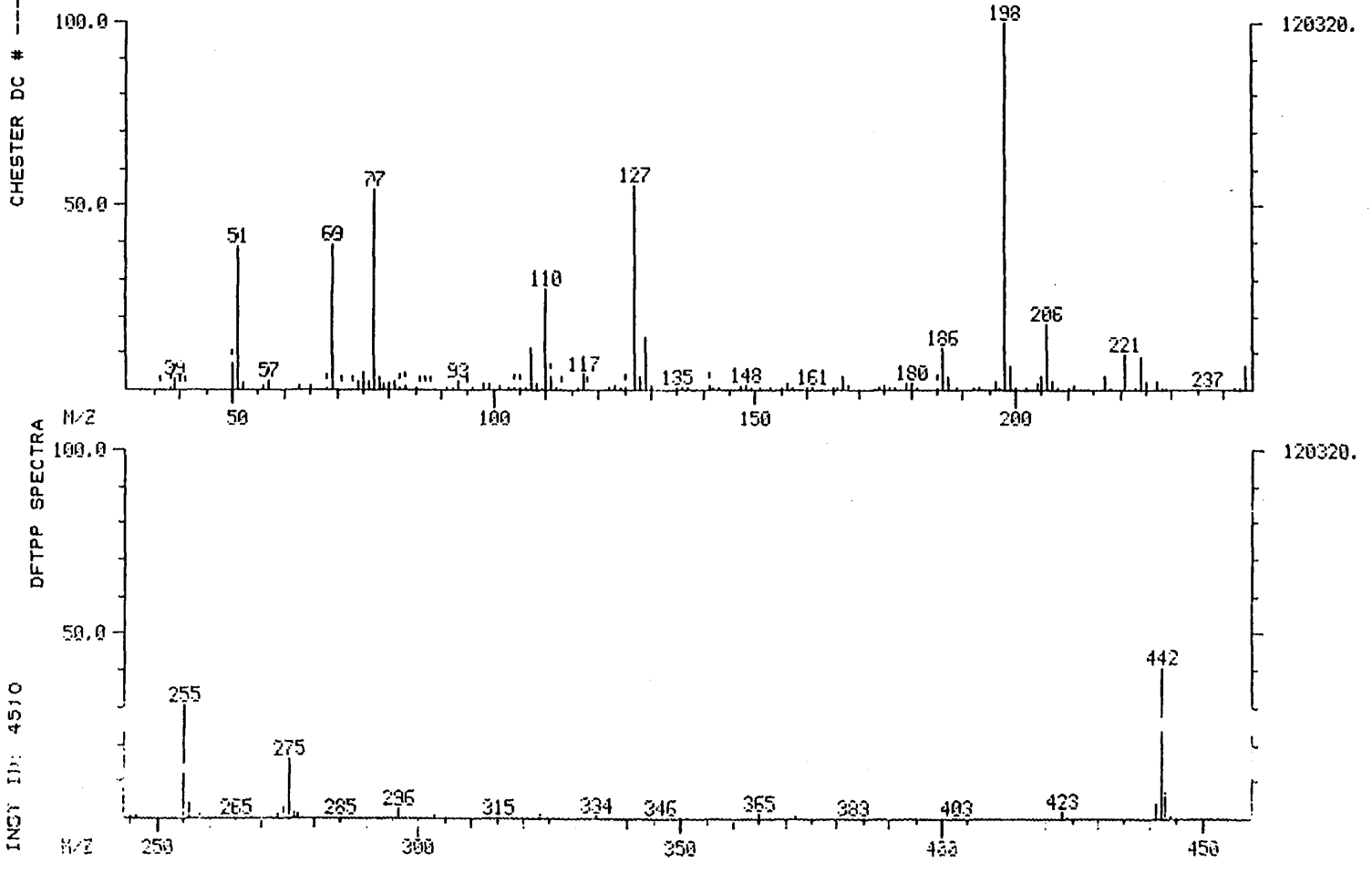
M/E	Ion Abundance Criteria	Spec # 231	
51	30 to 60% of mass 198	38.72	
68	less than 2% of mass 69	0.70	(1.78) 1
69	mass 69 relative abundance	39.68	
70	less than 2% of mass 69	0.14	(0.37) 1
127	40 TO 60% of mass 198	55.43	
197	less than 1% of mass 198	0.39	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.66	
275	10 TO 30% of mass 198	16.44	
365	greater than 1% of mass 198	1.13	
441	less than mass 443	4.33	
442	greater than 40% of mass 198	40.43	
443	17 TO 23% of mass 442	7.35	(18.20) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

MASS SPECTRUM
04/01/93 9:13:00 + 3:52
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:#158 DEG. C
#231 TO #233 SUMMED - #209

DATA: FS0401C01 #232
CALI: FS0401C01 #3

BASE M/Z: 198
RIC: 791552.



-15

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012125

012125

INST ID: 4510 CHESTER DC # --- -15

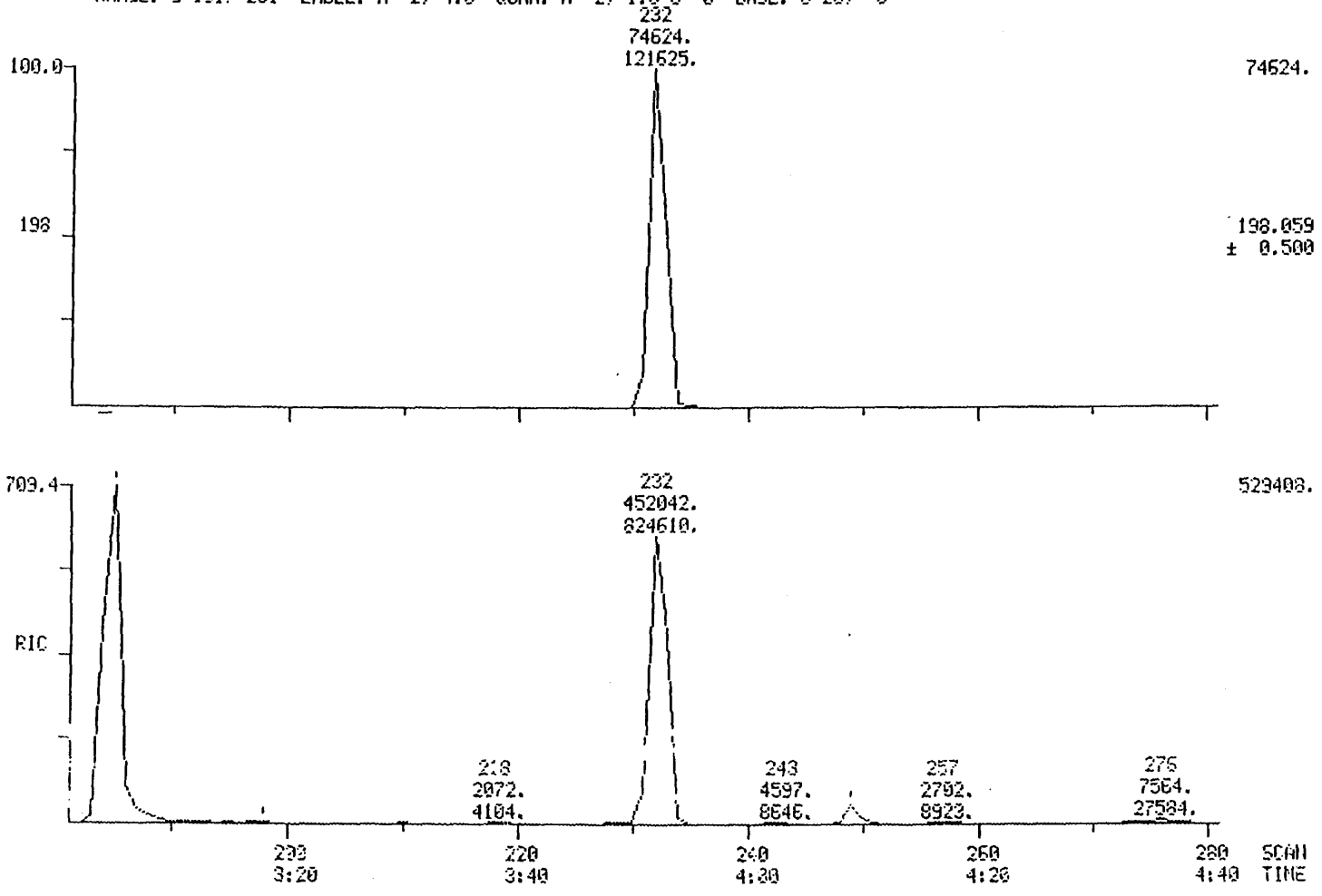
012126

DFTPP MASS LISTING

Mass List Data: FS0401C01 # 232 Base m/z: 198
04/01/93 9:13:00 + 3:52 Cali: FS0401C01 # 3 RIC: 791552.
Sample: DFTPP
Conds.: ---
#231 to #233 summed - #209

36		0.00	0.	Minima	Min Inten:		635.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
39?	S	2.83	3400.	175		1.40	1690.
50	S	7.27	8752.	176		0.56	675.
51	S	38.72	46592.	177		0.64	765.
52		1.86	2236.	179		1.91	2296.
56		1.05	1262.	180		2.06	2484.
57	S	2.63	3160.	181		0.82	982.
63		1.12	1350.	185	S	0.68	814.
65		1.02	1224.	186		11.38	13696.
68	S	0.70	848.	187		3.34	4024.
69	S	39.68	47744.	192		0.62	750.
74		2.58	3108.	193		0.77	926.
75		5.07	6096.	196		2.30	2772.
76		2.23	2680.	198		100.00	120320.
77	S	54.79	65920.	199		6.66	8008.
78		3.49	4200.	200		0.53	637.
79		1.80	2168.	202		0.54	648.
80		1.61	1942.	204		1.91	2304.
81		2.36	2840.	205		3.61	4344.
82	S	0.71	853.	206		18.19	21888.
83	S	1.01	1218.	207		2.36	2836.
91		0.57	683.	211		0.95	1142.
93		2.58	3100.	217		3.30	3976.
98		1.79	2148.	218		0.54	646.
99		1.82	2188.	221		9.41	11328.
101		1.25	1506.	223		0.83	997.
104	S	0.64	769.	224		9.22	11088.
107		11.38	13696.	225		2.13	2568.
108		2.02	2428.	227		2.27	2736.
110		27.39	32960.	229		0.54	645.
111	S	3.66	4400.	244		6.47	7784.
117		3.93	4728.	245		0.85	1028.
122		0.58	701.	246		0.87	1042.
123		0.91	1090.	255		30.27	36416.
127		55.43	66688.	256		3.99	4800.
128		3.70	4448.	258		1.32	1592.
129		14.12	16992.	273		0.94	1130.
130		1.17	1402.	274		3.05	3672.
135		0.83	1000.	275		16.44	19776.
137		0.60	722.	276		1.95	2352.
141	S	1.28	1540.	277		0.92	1110.
142		0.61	728.	296		2.57	3092.
147		0.92	1104.	323		1.08	1296.
148		1.34	1610.	334		0.75	897.
155		0.75	907.	365		1.13	1356.
156		1.90	2288.	372		0.62	743.
161		0.85	1028.	423		1.87	2252.
165		0.59	706.	441		4.33	5208.
167		3.50	4216.	442		40.43	48640.
168		1.24	1488.	443		7.35	8848.
174		0.67	806.	444		0.76	914.

RIC+MASS CHROMATOGRAM DATA: FS0401C01 #231 SCANS 181 TO 281
04/01/93 9:13:00 CALI: FS0401C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 181, 281 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



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012127

012127

012128

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 03/30/93
STANDARD FILE: FS0401C02
DATE: 04/01/93 TIME: 9:36
MAXIMUM % D FOR CCC IS 20

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.911	1.773	-7.199
C325	BIS(2-CHLOROETHYL)ETHE	1.904	1.633	-14.209
C330	2-CHLOROPHENOL	1.458	1.442	-1.133
C335	1,3-DICHLOROBENZENE	1.510	1.506	-0.283
C340	1,4-DICHLOROBENZENE	1.602	1.616	0.879
C345	BENZYL ALCOHOL	0.983	0.935	-4.885
C350	1,2-DICHLOROBENZENE	1.495	1.488	-0.473
C355	2-METHYLPHENOL	1.587	1.583	-0.255
C357	2,2'-OXYBIS(1-CHLOROPR	1.913	1.899	-0.718
C365	4-METHYLPHENOL	1.690	1.706	0.923
C370	N-NITROSODIPROPYLAMINE	1.146	1.016	-11.334
C375	HEXACHLOROETHANE	0.629	0.601	-4.443
C410	NITROBENZENE	0.344	0.362	5.155
C415	ISOPHORONE	0.742	0.751	1.239
C420	2-NITROPHENOL	0.217	0.208	-4.424
C425	2,4-DIMETHYLPHENOL	0.309	0.304	-1.748
C430	BENZOIC ACID	0.227	0.230	1.308
C435	BIS(2-CHLOROETHOXY)MET	0.537	0.496	-7.577
C440	2,4-DICHLOROPHENOL	0.280	0.283	1.001
C445	1,2,4-TRICHLOROBENZENE	0.279	0.302	8.222
C450	NAPHTHALENE	1.067	1.100	3.077
C455	4-CHLOROANILINE	0.391	0.397	1.537
C460	HEXACHLOROBUTADIENE	0.106	0.116	8.550
C465	4-CHLORO-M-CRESOL	0.301	0.304	0.992
C470	2-METHYLNAPHTHALENE	0.805	0.848	5.425
C510	HEXACHLOROCYCLOPENTADI	0.234	0.225	-3.893
C515	2,4,6-TRICHLOROPHENOL	0.304	0.296	-2.558
C520	2,4,5-TRICHLOROPHENOL	0.331	0.361	8.799
C525	2-CHLORONAPHTHALENE	1.153	1.162	0.712
C530	2-NITROANILINE	0.330	0.332	0.672
C535	DIMETHYL PHTHALATE	1.226	1.130	-7.820
C540	ACENAPHTHYLENE	1.737	1.713	-1.394
C545	3-NITROANILINE	0.338	0.313	-7.222
C550	ACENAPHTHENE	0.989	0.969	-2.038
C555	2,4-DINITROPHENOL	0.169	0.156	-7.941
C560	4-NITROPHENOL	0.099	0.074	-25.241
C565	DIBENZOFURAN	1.535	1.548	0.875
C570	2,4-DINITROTOLUENE	0.358	0.359	0.287
C573	2,6-DINITROTOLUENE	0.358	0.408	14.079
C580	DIETHYL PHTHALATE	1.162	1.097	-5.603
C585	4-CHLOROPHENYL PHENYL	0.556	0.531	-4.492
C590	FLUORENE	1.195	1.182	-1.080
C595	4-NITROANILINE	0.326	0.291	-10.951
C610	4,6-DINITRO-2-METHYLPH	0.155	0.151	-2.345
C615	N-NITROSODIPHENYLAMINE	0.709	0.663	-6.462
C625	4-BROMOPHENYL PHENYL E	0.183	0.176	-3.895
C630	HEXACHLOROBENZENE	0.156	0.154	-1.189
C635	PENTACHLOROPHENOL	0.110	0.108	-1.766
C640	PHENANTHRENE	1.200	1.162	-3.106
C645	ANTHRACENE	1.222	1.187	-2.884
C650	DI-N-BUTYL PHTHALATE	1.554	1.474	-5.172
C655	FLUORANTHENE	1.084	1.125	3.766

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C715	PYRENE	1.694	1.729	2.048
C720	BUTYL BENZYL PHTHALATE	0.920	0.856	-6.960
C725	3,3'-DICHLOROBENZIDINE	0.383	0.276	-27.915
C730	BENZO(A)ANTHRACENE	1.386	1.403	1.228
C745	BIS(2-ETHYLHEXYL)PHTHA	1.272	1.176	-7.523
C740	CHRYSENE	1.113	1.061	-4.722
C760	DI-N-OCTYL PHTHALATE	2.485	2.577	3.726
C765	BENZO(B)FLUORANTHENE	1.563	1.625	3.958
C770	BENZO(K)FLUORANTHENE	1.250	1.324	5.935
C775	BENZO(A)PYRENE	1.124	1.137	1.121
C780	INDENO(1,2,3-CD)PYRENE	0.790	0.711	-10.022
C785	DIBENZO(A,H)ANTHRACENE	0.808	0.712	-11.870
C790	BENZO(GHI)PERYLENE	0.831	0.762	-8.200
C310	N-NITROSODIMETHYLAMINE	1.075	0.633	-41.095
C620	1,2-DIPHENYL-HYDRAZINE	1.095	1.082	-1.185
C570	2-CHLOROPHENOL-D4 ** S	1.828	1.928	5.465
C575	1,2-DICHLOROBENZENE-D4	0.866	0.879	1.537
C647	CARBAZOLE	1.197	1.142	-4.577
C550	2-FLUOROPHENOL ** SU1	1.588	1.520	-4.263
C545	PHENOL-D5 ** SU2 **	1.977	2.103	6.349
C555	2,4,6-TRIBROMOPHENOL	0.097	0.089	-7.930
C520	NITROBENZENE-D5 ** SU3	0.342	0.360	5.229
C525	2-FLUOROBIPHENYL ** SU	1.162	1.207	3.846
C530	TERPHENYL-D14 ** SU6	1.230	1.341	8.966
BENZENETHIOL				
METHYL CHRYSENE				
QUINOLINE				
C720	1-METHYLNAPHTHALENE			
7,12-DIMETHYLBENZ(A)ANTHRACE				
DIBENZ(A,H)ACRIDINE				
3+4-METHYLPHENOL				
INDENE				
A950	PYRIDINE			
A953	2,6-DICHLOROPHENOL			
A987	2,5-DICHLOROPHENOL			
A988	3,4-DICHLOROPHENOL			
A989	2,3-DICHLOROPHENOL			
A990	3,5-DICHLOROPHENOL			
A991	1,3,5-TRICHLOROBENZENE			
A992	1,2,3-TRICHLOROBENZENE			

SV STANDARD REPORT

SAMPLE ID. DFTPP INST. ID.: 4510

LAB ID. FS0401C02

CLIENT CHESTER ANALYST JDD

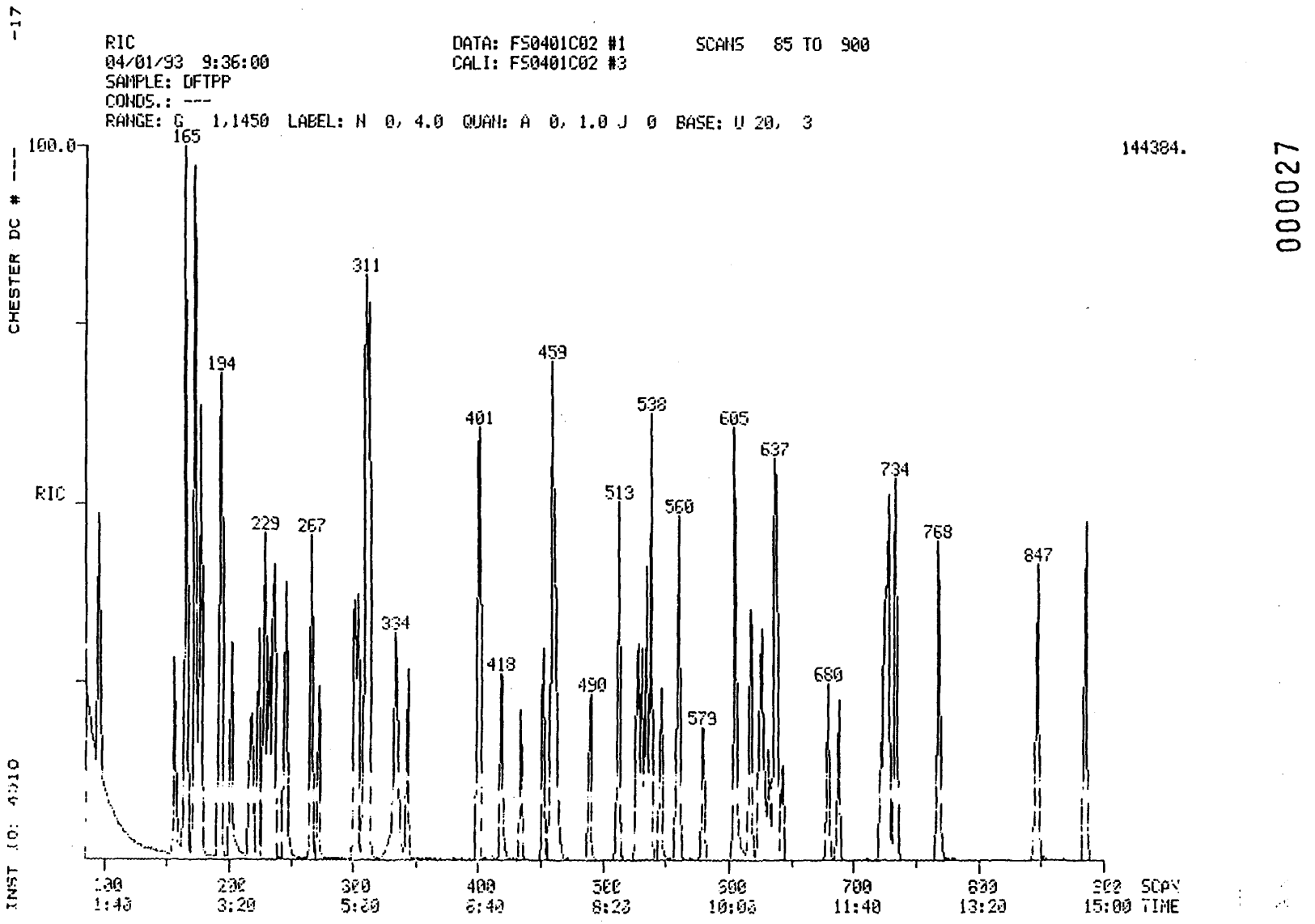
DATE INJECTED 04/01/93 9:36:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	177	40	18106	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	311	40	67287	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	534	40	40028	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	725	40	55270	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1080	40	37100	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1257	40	27907	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	96	50	34410	0.542	1.520
CS45	PHENOL-D5 ** SU2 **	99	172	50	47595	0.972	2.103
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	642	50	4462	1.202	0.089
CS20	NITROBENZENE-D5 ** SU3 **	82	235	50	30258	0.756	0.360
CS25	2-FLUOROBIPHENYL ** SU4 **	172	459	50	60382	0.860	1.207
CS30	TERPHENYL-D14 ** SU6 **	244	956	50	62175	0.885	1.341
C315	PHENOL	94	173	50	40127	0.977	1.773
C325	BIS(2-CHLOROETHYL)ETHER	93	164	50	36969	0.927	1.633
C330	2-CHLOROPHENOL	128	166	50	32626	0.938	1.442
C335	1,3-DICHLOROBENZENE	146	172	50	34076	0.972	1.506
C340	1,4-DICHLOROBENZENE	146	178	50	36583	1.006	1.616
C345	BENZYL ALCOHOL	108	202	50	21166	1.141	0.935
C350	1,2-DICHLOROBENZENE	146	194	50	33684	1.096	1.488
C355	2-METHYLPHENOL	108	229	50	35835	1.294	1.583
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	217	50	42977	1.226	1.899
C365	4-METHYLPHENOL	108	246	50	38610	1.390	1.706
C370	N-NITROSODIPROPYLAMINE	70	233	50	23000	1.316	1.016
C375	HEXACHLOROETHANE	117	224	50	13605	1.266	0.601
C410	NITROBENZENE	77	237	50	30469	0.762	0.362
C415	ISOPHORONE	82	267	50	63167	0.859	0.751
C420	2-NITROPHENOL	139	273	50	17464	0.878	0.208
C425	2,4-DIMETHYLPHENOL	107	301	50	25575	0.968	0.304
C430	BENZOIC ACID	122	337	50	19339	1.084	0.230
C435	BIS(2-CHLOROETHOXY)METHANE	93	304	50	41754	0.977	0.496
C440	2,4-DICHLOROPHENOL	162	311	50	23779	1.000	0.283
C445	1,2,4-TRICHLOROBENZENE	180	309	50	25367	0.994	0.302
C450	NAPHTHALENE	128	313	50	92524	1.006	1.100
C455	4-CHLOROANILINE	127	334	50	33428	1.074	0.397
C460	HEXACHLOROBUTADIENE	225	344	50	9724	1.106	0.116
C465	P-CHLORO-M-CRESOL	107	418	50	25590	1.344	0.304
C470	2-METHYLNAPHTHALENE	142	401	50	71347	1.289	0.848
C510	HEXACHLOROCYCLOPENTADIENE	237	434	50	11240	0.813	0.225
C515	2,4,6-TRICHLOROPHENOL	196	452	50	14804	0.846	0.296
C520	2,4,5-TRICHLOROPHENOL	196	462	50	18040	0.865	0.361
C525	2-CHLORONAPHTHALENE	162	460	50	58121	0.861	1.162
C530	2-NITROANILINE	65	490	50	16598	0.918	0.332
C535	DIMETHYL PHTHALATE	163	527	50	56547	0.987	1.130
C540	ACENAPHTHYLENE	152	512	50	85713	0.959	1.713
C545	3-NITROANILINE	138	546	50	15682	1.022	0.313
C550	ACENAPHTHENE	153	538	50	48487	1.007	0.969

SV STANDARD REPORT PAGE 2

DATAFILE FS0401C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
C555	2,4-DINITROPHENOL	184	558	50	7802	1.045	0.156
C560	4-NITROPHENOL	109	606	50	3690	1.135	0.074
C565	DIBENZOFURAN	168	560	50	77473	1.049	1.548
C570	2,4-DINITROTOLUENE	165	579	50	17975	1.084	0.359
C543	2,6-DINITROTOLUENE	165	531	50	20424	0.994	0.408
C580	DIETHYL PHTHALATE	149	626	50	54889	1.172	1.097
C585	4-CHLOROPHENYL PHENYL ETHER	204	617	50	26577	1.155	0.531
C590	FLUORENE	166	605	50	59128	1.133	1.182
C595	4-NITROANILINE	138	628	50	14541	1.176	0.291
C610	4,6-DINITRO-2-METHYLPHENOL	198	632	50	10455	0.872	0.151
C615	N-NITROSODIPHENYLAMINE	169	638	50	45821	0.880	0.663
C625	4-BROMOPHENYL PHENYL ETHER	248	679	50	12126	0.937	0.176
C630	HEXACHLOROBENZENE	284	688	50	10636	0.949	0.154
C635	PENTACHLOROPHENOL	266	722	50	7436	0.996	0.108
C640	PHENANTHRENE	178	728	50	80298	1.004	1.162
C645	ANTHRACENE	178	734	50	81973	1.012	1.187
C650	DI-N-BUTYL PHTHALATE	149	847	50	101819	1.168	1.474
C655	FLUORANTHENE	202	886	50	77722	1.222	1.125
C715	PYRENE	202	912	50	80162	0.844	1.729
C720	BUTYL BENZYL PHTHALATE	149	1043	50	39684	0.966	0.856
C725	3,3'-DICHLOROBENZIDINE	252	1093	50	12810	1.012	0.276
C730	BENZO(A)ANTHRACENE	228	1079	50	65049	0.999	1.403
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1138	50	54546	1.054	1.176
C740	CHRYSENE	228	1083	50	49198	1.003	1.061
C760	DI-N-OCTYL PHTHALATE	149	1218	50	89911	0.969	2.577
C765	BENZO(B)FLUORANTHENE	252	1216	50	56679	0.967	1.625
C770	BENZO(K)FLUORANTHENE	252	1218	50	46193	0.969	1.324
C775	BENZO(A)PYRENE	252	1250	50	39655	0.994	1.137
C780	INDENO(1,2,3-CD)PYRENE	276	1371	50	24792	1.091	0.711
C785	DIBENZO(A,H)ANTHRACENE	278	1377	50	24853	1.095	0.712
C790	BENZO(GHI)PERYLENE	276	1394	50	26597	1.109	0.762
C620	1,2-DIPHENYL-HYDRAZINE						



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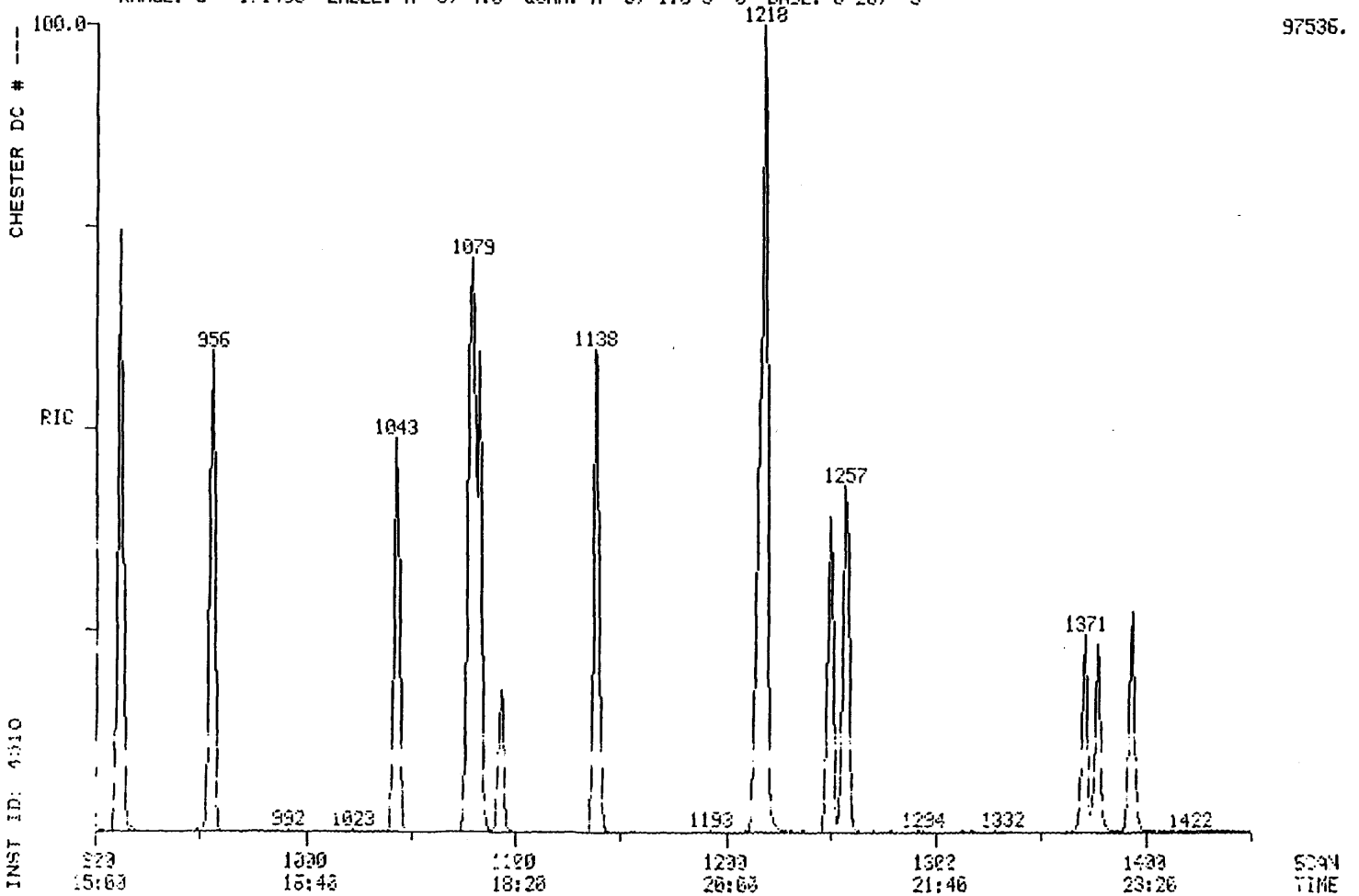
-17

RIC
04/01/93 9:36:00
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0401C02 #1
CALI: FS0401C02 #3

SCANS 900 TO 1450



CHESTER DC # ---

INST ID: 4910

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012133

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012134

Quantitation Report File: FS0401C02

Data: FS0401C02.TI
04/01/93 9:36:00
Sample: DFTPP
Conds.: ---
Formula: 03/09/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

012135

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	177	2:57	1	1.000	A BB	18106.	40.000 UG/L	0.98
2	136	311	5:11	2	1.000	A BB	67287.	40.000 UG/L	0.98
3	164	534	8:54	3	1.000	A VB	40028.	40.000 UG/L	0.98
4	108	725	12:05	4	1.000	A BB	55270.	40.000 UG/L	0.98
5	240	1080	18:00	5	1.000	A BB	37100.	40.000 UG/L	0.98
6	264	1257	20:57	6	1.000	A BB	27907.	40.000 UG/L	0.98
7	112	96	1:36	1	0.542	A BB	34410.	50.000 UG/L	1.22
8	99	172	2:52	1	0.972	A BB	47595.	50.000 UG/L	1.22
9	330	642	10:42	3	1.202	A BB	4462.	50.000 UG/L	1.22
10	82	235	3:55	2	0.756	A BB	30258.	50.000 UG/L	1.22
11	172	459	7:39	3	0.860	A BB	60382.	50.000 UG/L	1.22
12	244	956	15:56	5	0.885	A BB	62175.	50.000 UG/L	1.22
13	94	173	2:53	1	0.977	A BB	40127.	50.000 UG/L	1.22
14	93	164	2:44	1	0.927	A VV	36969.	50.000 UG/L	1.22
15	138	166	2:46	1	0.938	A BB	32626.	50.000 UG/L	1.22
16	146	172	2:52	1	0.972	A BV	34076.	50.000 UG/L	1.22
17	146	178	2:58	1	1.006	A VB	36583.	50.000 UG/L	1.22
18	108	202	3:22	1	1.141	A BB	21165.	50.000 UG/L	1.22
19	146	194	3:14	1	1.096	A BB	33684.	50.000 UG/L	1.22
20	108	229	3:49	1	1.294	A BB	35835.	50.000 UG/L	1.22
21	43	217	3:37	1	1.226	A BB	42977.	50.000 UG/L	1.22
22	108	246	4:06	1	1.390	A BB	38610.	50.000 UG/L	1.22
23	70	233	3:53	1	1.316	M XX	23000.	50.000 UG/L	1.22
24	117	224	3:44	1	1.266	A BB	13605.	50.000 UG/L	1.22
25	77	237	3:57	2	0.762	A VB	30469.	50.000 UG/L	1.22
26	82	267	4:27	2	0.859	A BB	63167.	50.000 UG/L	1.22
27	139	273	4:33	2	0.878	A BB	17464.	50.000 UG/L	1.22
28	107	301	5:01	2	0.968	A BB	25575.	50.000 UG/L	1.22
29	122	337	5:37	2	1.084	A BV	19339.	50.000 UG/L	1.22
30	93	304	5:04	2	0.977	A BB	41754.	50.000 UG/L	1.22
31	162	311	5:11	2	1.000	A BB	23779.	50.000 UG/L	1.22
32	180	309	5:09	2	0.994	A BB	25367.	50.000 UG/L	1.22
33	128	313	5:13	2	1.006	A BB	92524.	50.000 UG/L	1.22
34	127	334	5:34	2	1.074	A BB	33428.	50.000 UG/L	1.22
35	225	344	5:44	2	1.106	A BB	9724.	50.000 UG/L	1.22
36	107	418	6:58	2	1.344	A BB	25590.	50.000 UG/L	1.22
37	142	401	6:41	2	1.289	A BB	71347.	50.000 UG/L	1.22
38	237	434	7:14	3	0.813	A BB	11240.	50.000 UG/L	1.22
39	196	452	7:32	3	0.846	A BB	14804.	50.000 UG/L	1.22
40	196	462	7:42	3	0.865	A BB	18040.	50.000 UG/L	1.22
41	162	460	7:40	3	0.861	A BB	58121.	50.000 UG/L	1.22
42	65	490	8:10	3	0.918	A BB	16598.	50.000 UG/L	1.22
43	163	527	8:47	3	0.987	A BV	56547.	50.000 UG/L	1.22
44	152	512	8:32	3	0.959	A BB	85713.	50.000 UG/L	1.22
45	138	546	9:06	3	1.022	A BB	15682.	50.000 UG/L	1.22
46	153	538	8:58	3	1.007	A BB	48487.	50.000 UG/L	1.22
47	184	558	9:18	3	1.045	A BB	7802.	50.000 UG/L	1.22
48	109	606	10:06	3	1.135	A BB	3690.	50.000 UG/L	1.22
49	168	560	9:20	3	1.049	A BB	77473.	50.000 UG/L	1.22
50	165	579	9:39	3	1.084	A BB	17975.	50.000 UG/L	1.22

012135

012136

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	2:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:11	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	20:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	1:36	1.00	0.542	1.00	50.00	50.00	1.520	1.520	1.00
8	2:32	1.00	0.972	1.00	50.00	50.00	2.103	2.103	1.00
9	10:42	1.00	1.202	1.00	50.00	50.00	0.089	0.089	1.00
10	3:55	1.00	0.756	1.00	50.00	50.00	0.360	0.360	1.00
11	7:39	1.00	0.860	1.00	50.00	50.00	1.207	1.207	1.00
12	15:56	1.00	0.885	1.00	50.00	50.00	1.341	1.341	1.00
13	2:53	1.00	0.977	1.00	50.00	50.00	1.773	1.773	1.00
14	2:44	1.00	0.927	1.00	50.00	50.00	1.633	1.633	1.00
15	2:46	1.00	0.938	1.00	50.00	50.00	1.442	1.442	1.00
16	2:52	1.00	0.972	1.00	50.00	50.00	1.506	1.506	1.00
17	2:58	1.00	1.006	1.00	50.00	50.00	1.616	1.616	1.00
18	3:22	1.00	1.141	1.00	50.00	50.00	0.935	0.935	1.00
19	3:14	1.00	1.096	1.00	50.00	50.00	1.488	1.488	1.00
20	3:49	1.00	1.294	1.00	50.00	50.00	1.583	1.583	1.00
21	3:37	1.00	1.226	1.00	50.00	50.00	1.899	1.899	1.00
22	4:06	1.00	1.390	1.00	50.00	50.00	1.706	1.706	1.00
23	3:53	1.00	1.316	1.00	50.00	50.00	1.016	1.016	1.00
24	3:44	1.00	1.266	1.00	50.00	50.00	0.601	0.601	1.00
25	3:57	1.00	0.762	1.00	50.00	50.00	0.362	0.362	1.00
26	4:27	1.00	0.859	1.00	50.00	50.00	0.751	0.751	1.00
27	4:33	1.00	0.878	1.00	50.00	50.00	0.208	0.208	1.00
28	5:01	1.00	0.968	1.00	50.00	50.00	0.304	0.304	1.00
29	5:37	1.00	1.084	1.00	50.00	50.00	0.230	0.230	1.00
30	5:04	1.00	0.977	1.00	50.00	50.00	0.496	0.496	1.00
31	5:11	1.00	1.000	1.00	50.00	50.00	0.283	0.283	1.00
32	5:09	1.00	0.994	1.00	50.00	50.00	0.302	0.302	1.00
33	5:13	1.00	1.006	1.00	50.00	50.00	1.100	1.100	1.00
34	5:34	1.00	1.074	1.00	50.00	50.00	0.397	0.397	1.00
35	5:44	1.00	1.106	1.00	50.00	50.00	0.116	0.116	1.00
36	6:58	1.00	1.344	1.00	50.00	50.00	0.304	0.304	1.00
37	6:41	1.00	1.289	1.00	50.00	50.00	0.848	0.848	1.00
38	7:14	1.00	0.813	1.00	50.00	50.00	0.225	0.225	1.00
39	7:32	1.00	0.846	1.00	50.00	50.00	0.296	0.296	1.00
40	7:42	1.00	0.865	1.00	50.00	50.00	0.361	0.361	1.00
41	7:40	1.00	0.861	1.00	50.00	50.00	1.162	1.162	1.00
42	8:10	1.00	0.918	1.00	50.00	50.00	0.332	0.332	1.00
43	8:47	1.00	0.987	1.00	50.00	50.00	1.130	1.130	1.00
44	8:32	1.00	0.959	1.00	50.00	50.00	1.713	1.713	1.00
45	9:06	1.00	1.022	1.00	50.00	50.00	0.313	0.313	1.00
46	8:58	1.00	1.007	1.00	50.00	50.00	0.969	0.969	1.00
47	9:18	1.00	1.045	1.00	50.00	50.00	0.156	0.156	1.00
48	10:06	1.00	1.135	1.00	50.00	50.00	0.074	0.074	1.00
49	9:20	1.00	1.049	1.00	50.00	50.00	1.548	1.548	1.00
50	9:39	1.00	1.084	1.00	50.00	50.00	0.359	0.359	1.00

Quantitation Report File: FS0401C02

Data: FS0401C02.TI
04/01/93 9:36:00
Sample: DFFPP
Conds.: ---
Formula: 03/09/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C810	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	A950	PYRIDINE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	531	8:51	3	0.994	A BB	20424.	50.000 UG/L	1.22
52	149	626	10:26	3	1.172	A BB	54889.	50.000 UG/L	1.22
53	204	617	10:17	3	1.155	A BB	26577.	50.000 UG/L	1.22
54	166	605	10:05	3	1.133	A BB	59128.	50.000 UG/L	1.22
55	138	628	10:28	3	1.176	A BB	14541.	50.000 UG/L	1.22
56	198	632	10:32	4	0.872	A BB	10455.	50.000 UG/L	1.22
57	169	638	10:38	4	0.880	A BB	45821.	50.000 UG/L	1.22
58	248	679	11:19	4	0.937	A BB	12126.	50.000 UG/L	1.22
59	284	688	11:28	4	0.949	A BB	10636.	50.000 UG/L	1.22
60	266	722	12:02	4	0.996	A BB	7436.	50.000 UG/L	1.22

012138

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
61	178	728	12:08	4	1.004	A BV	80298.	50.000 UG/L	1.22
62	178	734	12:14	4	1.012	A VB	81973.	50.000 UG/L	1.22
63	149	847	14:07	4	1.168	A BB	101819.	50.000 UG/L	1.22
64	202	886	14:46	4	1.222	A BB	77722.	50.000 UG/L	1.22
65	202	912	15:12	5	0.844	A BB	80162.	50.000 UG/L	1.22
66	149	1043	17:23	5	0.966	A BB	39684.	50.000 UG/L	1.22
67	252	1093	18:13	5	1.012	A BB	12810.	50.000 UG/L	1.22
68	228	1079	17:59	5	0.999	A BV	65049.	50.000 UG/L	1.22
69	149	1138	18:58	5	1.054	A BB	54546.	50.000 UG/L	1.22
70	228	1083	18:03	5	1.003	A VV	49198.	50.000 UG/L	1.22
71	149	1218	20:18	6	0.969	A BB	89911.	50.000 UG/L	1.22
72	252	1216	20:16	6	0.967	M XX	56679.	50.000 UG/L	1.22
73	252	1218	20:18	6	0.969	M XX	46193.	50.000 UG/L	1.22
74	252	1250	20:50	6	0.994	A BB	39655.	50.000 UG/L	1.22
75	276	1371	22:51	6	1.091	A BV	24792.	50.000 UG/L	1.22
76	278	1377	22:57	6	1.095	A BV	24853.	50.000 UG/L	1.22
77	276	1394	23:14	6	1.109	A BB	26597.	50.000 UG/L	1.22
78	74	39	0:39	1	0.220	A VV	14321.	50.000 UG/L	1.22
79	184	956	15:56	5	0.885	M XX	357.	50.000 UG/L	1.22
80	132	165	2:45	1	0.932	A BB	43631.	50.000 UG/L	1.22
81	152	193	3:13	1	1.090	M XX	19898.	50.000 UG/L	1.22
82	167	768	12:48	4	1.059	M XX	78923.	50.000 UG/L	1.22
83	79	39	0:39	1	0.220	M XX	40254.	50.000 UG/L	1.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	8:51	1.00	0.994	1.00	50.00	50.00	0.408	0.408	1.00
52	10:26	1.00	1.172	1.00	50.00	50.00	1.097	1.097	1.00
53	10:17	1.00	1.155	1.00	50.00	50.00	0.531	0.531	1.00
54	10:05	1.00	1.133	1.00	50.00	50.00	1.182	1.182	1.00
55	10:28	1.00	1.176	1.00	50.00	50.00	0.291	0.291	1.00
56	10:32	1.00	0.872	1.00	50.00	50.00	0.151	0.151	1.00
57	10:38	1.00	0.880	1.00	50.00	50.00	0.663	0.663	1.00
58	11:19	1.00	0.937	1.00	50.00	50.00	0.176	0.176	1.00
59	11:28	1.00	0.949	1.00	50.00	50.00	0.154	0.154	1.00
60	12:02	1.00	0.996	1.00	50.00	50.00	0.108	0.108	1.00
61	12:08	1.00	1.004	1.00	50.00	50.00	1.162	1.162	1.00
62	12:14	1.00	1.012	1.00	50.00	50.00	1.187	1.187	1.00
63	14:07	1.00	1.168	1.00	50.00	50.00	1.474	1.474	1.00
64	14:46	1.00	1.222	1.00	50.00	50.00	1.125	1.125	1.00
65	15:12	1.00	0.844	1.00	50.00	50.00	1.729	1.729	1.00
66	17:23	1.00	0.966	1.00	50.00	50.00	0.856	0.856	1.00
67	18:13	1.00	1.012	1.00	50.00	50.00	0.276	0.276	1.00
68	17:59	1.00	0.999	1.00	50.00	50.00	1.403	1.403	1.00
69	18:58	1.00	1.054	1.00	50.00	50.00	1.176	1.176	1.00
70	18:03	1.00	1.003	1.00	50.00	50.00	1.061	1.061	1.00
71	20:18	1.00	0.969	1.00	50.00	50.00	2.577	2.577	1.00
72	20:16	1.00	0.967	1.00	50.00	50.00	1.625	1.625	1.00
73	20:18	1.00	0.969	1.00	50.00	50.00	1.324	1.324	1.00
74	20:50	1.00	0.994	1.00	50.00	50.00	1.137	1.137	1.00
75	22:51	1.00	1.091	1.00	50.00	50.00	0.711	0.711	1.00
76	22:57	1.00	1.095	1.00	50.00	50.00	0.712	0.712	1.00
77	23:14	1.00	1.109	1.00	50.00	50.00	0.762	0.762	1.00
78	0:39	1.00	0.220	1.00	50.00	50.00	0.633	0.633	1.00
79	15:56	1.00	0.885	1.00	50.00	50.00	0.008	0.008	1.00
80	2:45	1.00	0.932	1.00	50.00	50.00	1.928	1.928	1.00
81	3:13	1.00	1.090	1.00	50.00	50.00	0.879	0.879	1.00

012139

No	RRT(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
82	[illegible]:48	1.00	1.059	1.00	50.00	50.00	1.142	1.142	1.00
83	[illegible]0:39	1.00	0.220	1.00	50.00	50.00	1.779	1.779	1.00

012139

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

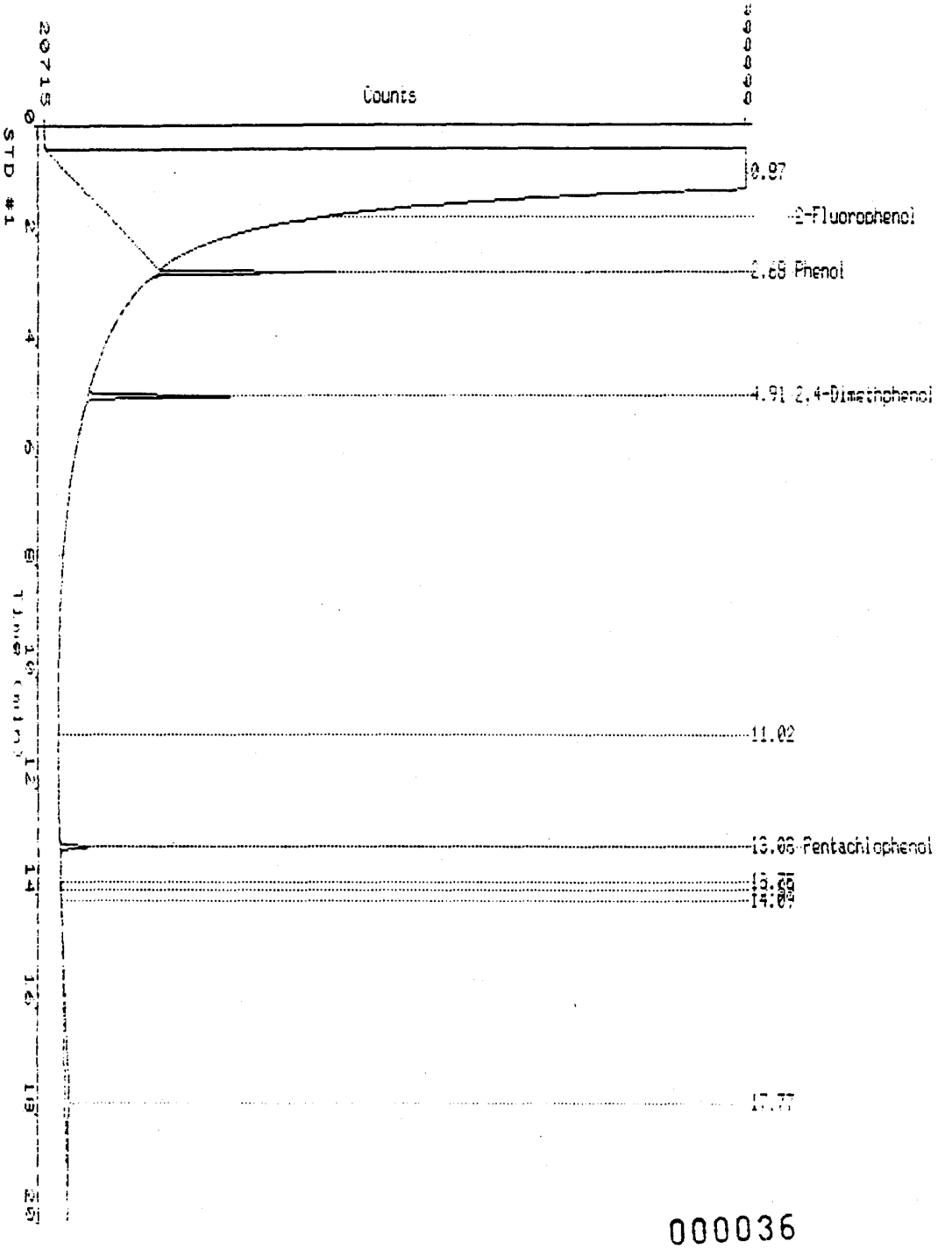
Initial Calibration Data

Calibration Date.... 31-MAR-1993
Method File Name.... htp0331-1b.met
Instrument..... HP 5890 H
Operator..... JIN ZHAO

Compound	RF	RF	RF	RF	RF	MEAN	% RSD
ug	50	35	25	12.5	5		
2-Fluorophenol	9.87E+03					9.87E+03	
Phenol	1.17E+04	1.08E+04	1.06E+04	1.02E+04	8.39E+03	1.04E+04	11.8
2,4-Dimethphenol	1.38E+04	1.27E+04	1.27E+04	1.23E+04	1.15E+04	1.26E+04	6.55
Pentachlophenol	3.28E+03	2.82E+03	2.47E+03	1.59E+03	2.38E+03	2.51E+03	24.8

% RSD must be less than or equal to 20.0 %

Data file: NAI$DIR:[NAI.TPH]HRP0331-005
Report: 247909
Acquired: 31-MAR-1993 15:07:23
Time range: 0.00-20.00
Vert. scale/offset: 1.0/0



Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:41:06.63 Report number.....247909
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-005.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;16
Last method update... 1-APR-1993 08:41:10.25 Area rejection.....4000
Device.....Channel 13A Reprocess number.....2
Acq. date.....31-MAR-1993 15:27:23 Sample name....STD #1
Notes.....50 UG/ML STD
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

Calibration sample name: STD #1

Peak name	R.T.(min)	CF	PPM	Peak Area	Ret Std	BL	Group
Phenol	2.684	1.17E+04	50.000	586699			
2,4-Dimethphen	4.911	1.38E+04	50.000	688542			
Pentachlopheno	13.077	3.28E+03	50.000	163823			

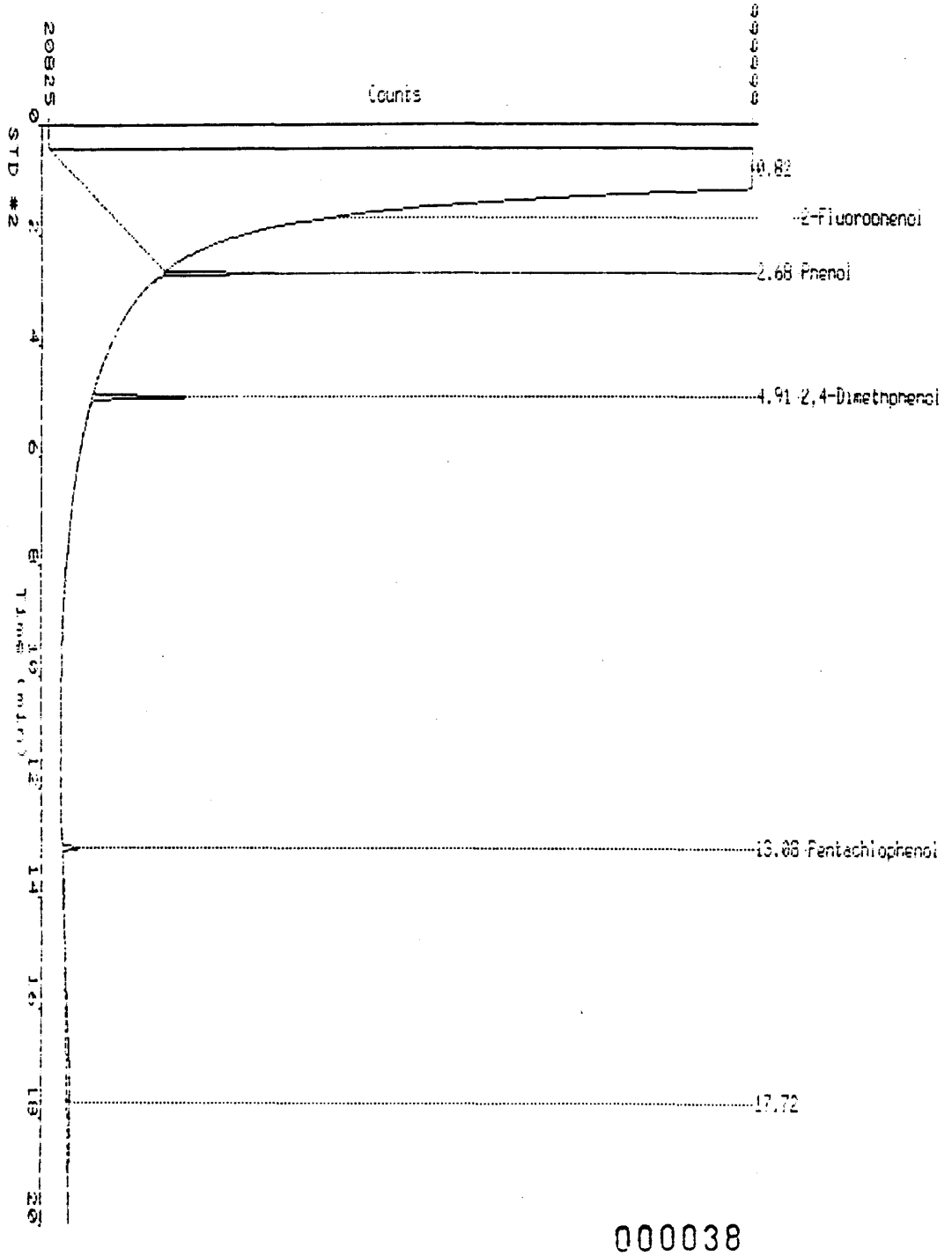
Data File: NAI$DIR:[NAI.TPH]HBP0331-006

Report: 247910

Acquired: 31-MAR-1993 15:53:19

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:41:17.27 Report number.....247910
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-006.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;17
Last method update... 1-APR-1993 08:41:21.88 Area rejection.....4000
Device.....Channel 13A Reprocess number.....2
Acq. date.....31-MAR-1993 15:53:19 Sample name....STD #2
Notes.....35 UG/ML STD
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

Calibration sample name: STD #2

Peak name	R.T.(min)	CF	PPM	Peak Area	Ref Std	BL	Group
Phenol	2.684	1.08E+04	35.000	377381			
2,4-Dimethphen	4.912	1.27E+04	35.000	445222			
Pentachlopheno	13.079	2.82E+03	35.000	98762			

012145

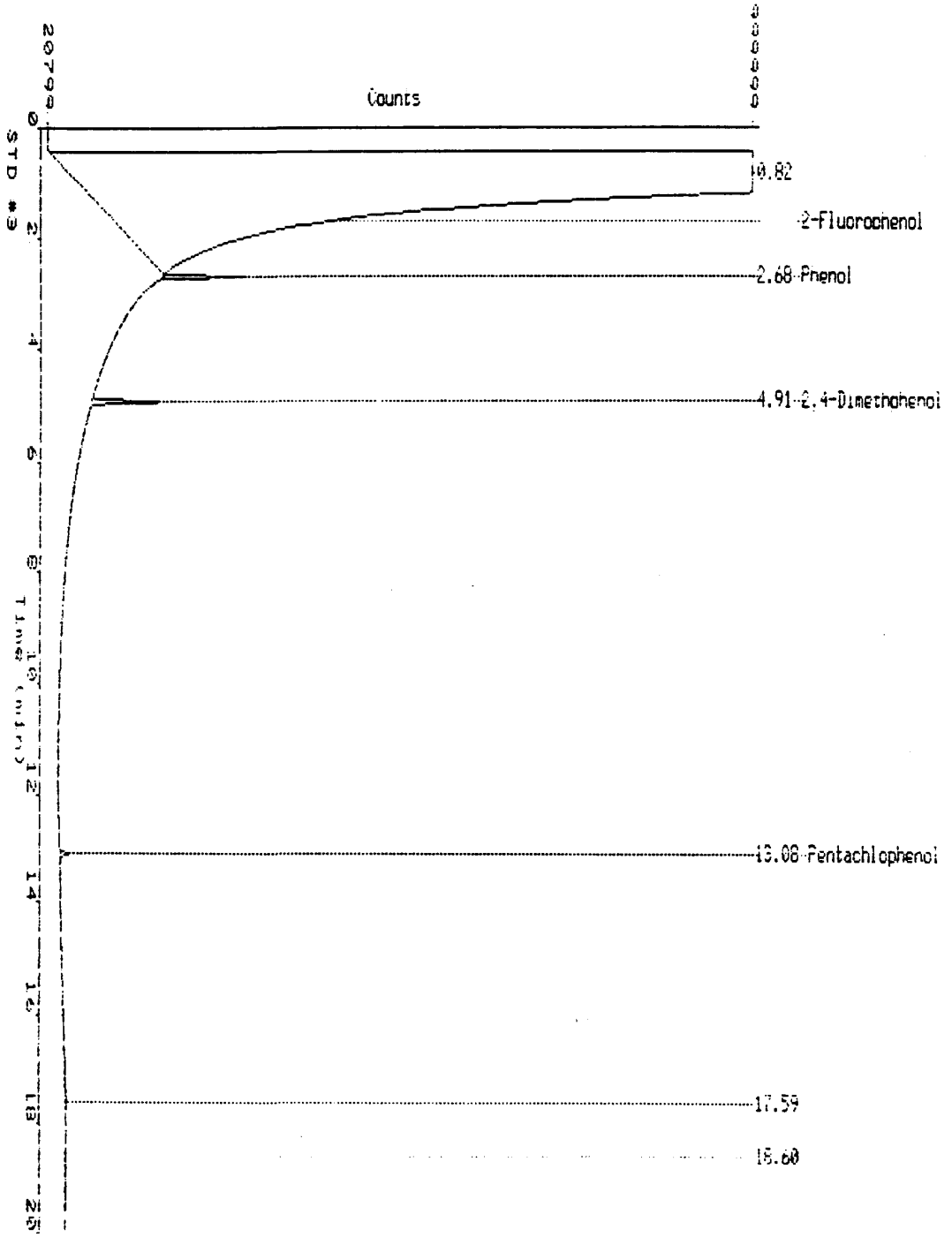
Data file: NAI$DIP:[NAI.TPH]HEP0331-007

Report: 247911

Acquired: 31-MAR-1993 16:19:32

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



000040

012146

Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:41:30.73 Report number.....247911
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-007.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;18
Last method update... 1-APR-1993 08:41:34.46 Area rejection.....4000
Device.....Channel 13A Reprocess number.....2
Acq. date.....31-MAR-1993 16:19:32 Sample name....STD #3
Notes.....25 UG/ML STD
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

Calibration sample name: STD #3

Peak name	R.T.(min)	CF	PPM	Peak Area	Ref Std	BL Group
Phenol	2.684	1.06E+04	25.000	266082		
2,4-Dimethphen	4.912	1.27E+04	25.000	317753		
Pentachlopheno	13.082	2.47E+03	25.000	61800		

012147

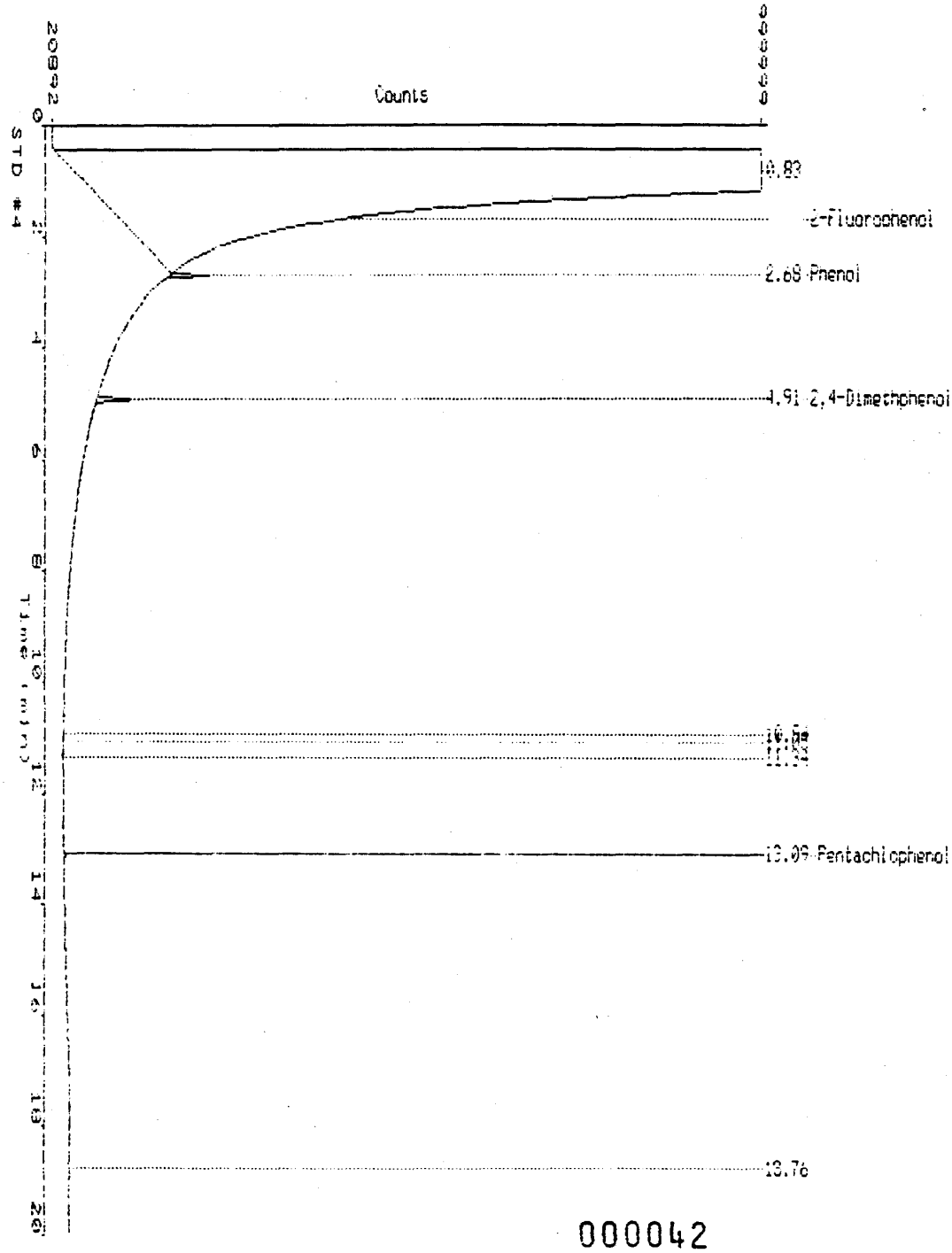
Data file: NAI$DIR:[NAI.TPH]HBP0331-002

Report: 247912

Acquired: 31-MAR-1993 16:45:35

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



000042

012148

Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:41:41.76 Report number.....247912
Raw file.....:NAI$DIR:[NAI.TPH]HBP0331-008.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;19
Last method update... 1-APR-1993 08:41:45.61 Area rejection.....4000
Device.....Channel 13A Reprocess number.....2
Acq. date.....31-MAR-1993 16:45:35 Sample name....STD #4
Notes.....12.5 UG/ML STD
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

Calibration sample name: STD #4

Peak name	R.T.(min)	CF	PPM	Peak Area	Ref Std	BL Group
Phenol	2.683	1.02E+04	12.500	127972		
2,4-Dimethphen	4.912	1.23E+04	12.500	154027		
Pentachlopheno	13.091	1.59E+03	12.500	19884		

000043

012148

012149

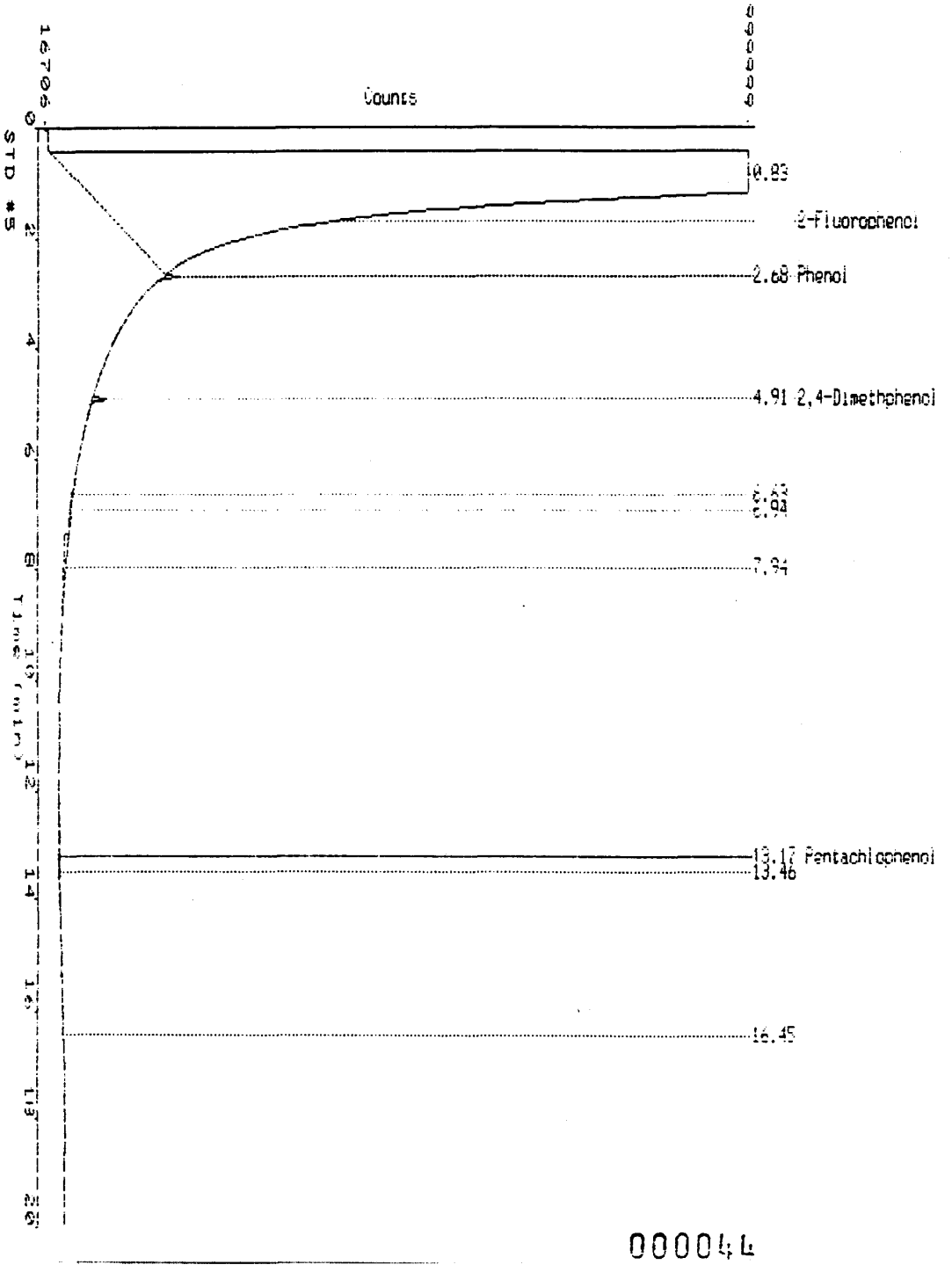
Data file: NAI$DIR:[NAI.TPH]HBP0331-009

Report: 247913

Acquired: 31-MAR-1993 17:11:40

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



000044

Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:41:53.17 Report number.....247913
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-009.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;20
Last method update... 1-APR-1993 08:41:57.15 Area rejection.....4000
Device.....Channel 13A Reprocess number.....2
Acq. date.....31-MAR-1993 17:11:40 Sample name....STD #5
Notes.....5 UG/ML STD
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

Calibration sample name: STD #5

Peak name	R.T.(min)	CF	PPM	Peak Area	Ref Std	BL	Group
Phenol	2.680	8.39E+03	5.000	41962			
2,4-Dimethphen	4.912	1.15E+04	5.000	57402			
Pentachlopheno	13.174	~~7.84E+03~~ 2.32E+03	5.000	~~39190~~ 11377			

012151

Date..... 1-APR-1993 08:26:50.34
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-005
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B
Acq. run time.....17.983 min Acq. sample rate....1 pt(s)/sec
Acq. date.....31-MAR-1993 17:11:40

Sample name.....STD #5

MANUAL BASELINE AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref	Std	BL	R	Peak Name
1	13.014	11877	338	100.000			MM		Pentachlorophenol
Totals		11877		100.000					

000046

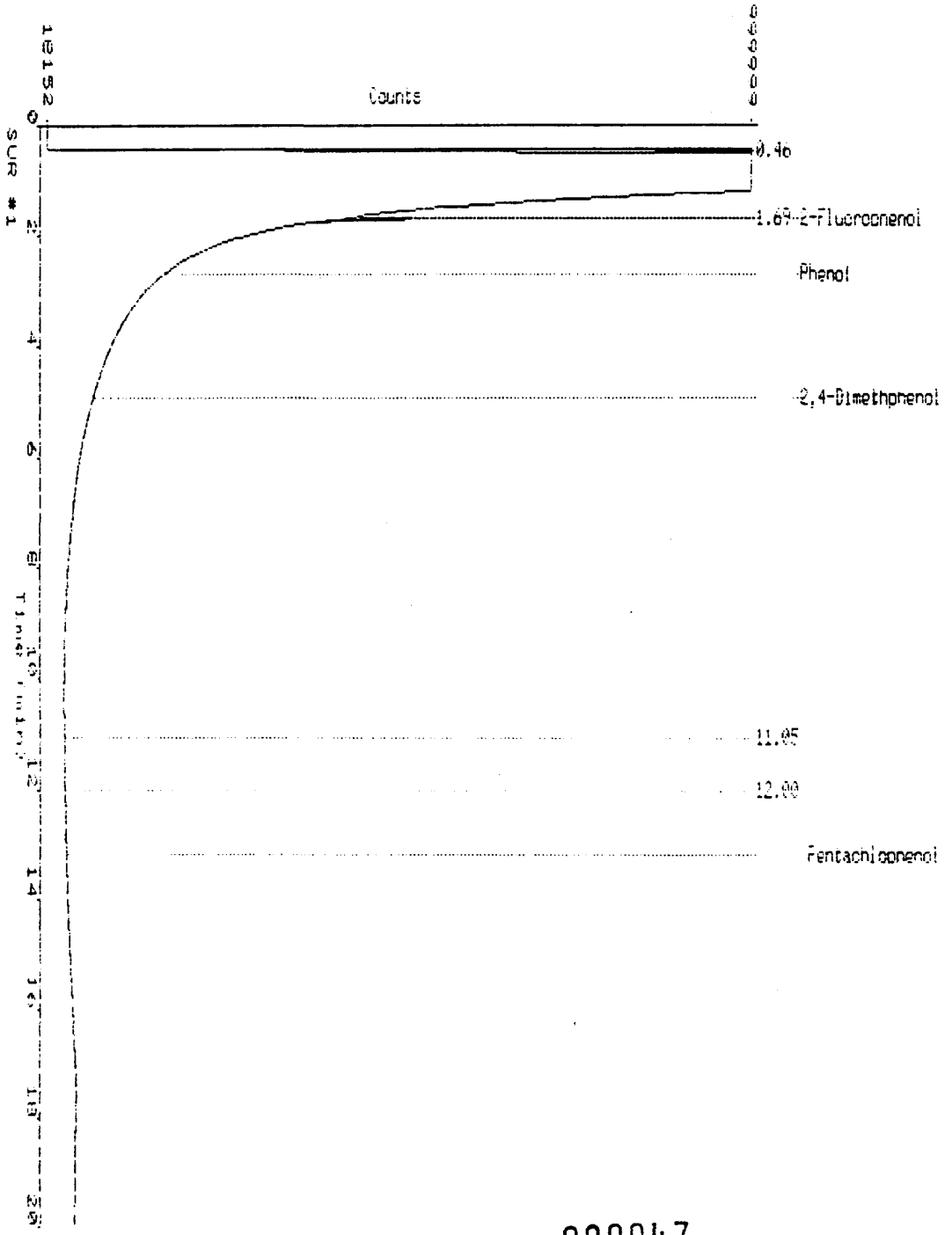
Data file: NAI$DIR:[NAI.TPH]WEP0331-004

Report: 247908

Acquired: 31-MAR-1993 15:01:24

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



012152

000047

Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:40:53.50 Report number.....247908
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-004.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;15
Last method update... 1-APR-1993 08:40:56.90 Area rejection.....4000
Device.....Channel 13A Reprocess number.....2
Acq. date.....31-MAR-1993 15:01:24 Sample name....SUR #1
Notes.....2-FLUORPHENOL STD
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

Calibration sample name: SUR #1

Peak name	R.T.(min)	CF	PPM	Peak Area	Ref Std	BL	Group
2-Fluorophenol	1.692	9.87E+03	20.000	197410			

KEYSTONE LAB - HOUSTON
A Division of CHESTER LabNet

Continuing Calibration Check

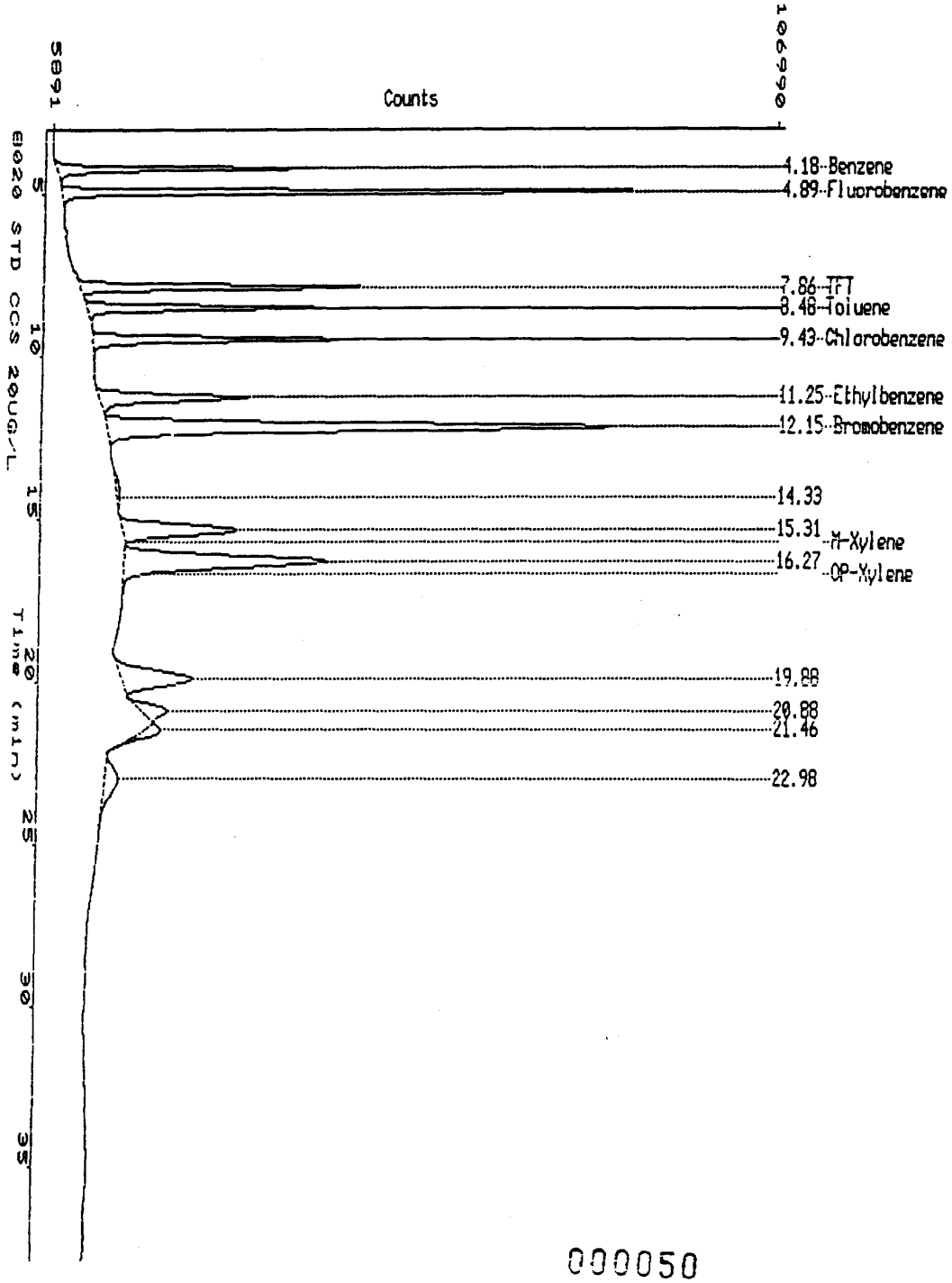
CC Calibration Date. 30-MAR=-1993
5L Method File Name. mbp0301-1a.met
CC Method File Name. mbc0330-1a.met
Instrument..... VARIAN 3700
Operator..... BC

Compound	MEAN RCF(i)	RSD RCF(0)	% D
Benzene	1.12270	1.07224	-4.494
Fluorobenzene	13268.064	14565.260	+9.777
TFT	0.50554	0.54232	+7.275
Toluene	1.30560	1.17978	-9.637
Chlorobenzene	0.85090	0.84449	-0.753
Ethylbenzene	0.68503	0.64848	-5.336
Bromobenzene	22424.297	24549.500	+9.477
M-Xylene	0.80418	0.78815	-1.992
OP-Xylene	0.78294	0.78285	-0.012

% D must be less than or equal to 15.0% for quantitation,
and less than 20.0% for conformation

012155

Data file: NAI$DIR:[NAI.BTEX]MAB0330-001
Report: 247098
Acquired: 30-MAR-1993 09:49:28
Time range: 3.00-38.00
Vert. scale/offset: 0.8/0



000050

012156

Chester LabNet - HOUSTON

Date..... 30-MAR-1993 11:17
Raw file..... MAB0330-001
Method file..... MBC0330-1A
Last method update.. 30-MAR-1993 11:17
Device..... Channel 12B
Acq. date..... 30-MAR-1993 09:49
Analysis type..... INTERNAL STANDARD
Instrument ID..... Hewlett Packard 5890K
Volume purged..... 5.0 ml
Client ID..... 8020 CCS

Report #... 247098
Column ID.. DB624 Megabore
Method 0.000000
Area rej... 2000
Process #.. 1
Lab ID .... 8020 STD CCS 20UG
A/D range..... 1.0 volt(s)
Sample matrix ... WATER
Dilution factor.. 1.000

Calibration sample name: 8020 STD CCS 20UG/L

Peak name	R.T.(min)	RCF	ug/l	Peak Area	Ref	Std	BL	Grp
Benzene	4.178	1.07E+00	20.000	312350		1		
Fluorobenzene	4.892	1.00E+00	50.000	728263		S1		
TFT	7.856	5.42E-01	50.000	394953	R	1		
Toluene	8.480	1.18E+00	20.000	343677		1		
Chlorobenzene	9.430	8.44E-01	20.000	414638		2		
Ethylbenzene	11.255	6.48E-01	20.000	318397		2		
Bromobenzene	12.154	1.00E+00	50.000	1227475		S2		

000051

012157

CHESTER DC # --- - 8

INST ID: 4510

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: ....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 04/01/93

DATAFILE: 9B0329C01

DILUTION FACTOR: 1

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

012158

CHESTER DC # --- - 8

INST ID: 4310

SAMPLE NUMBER: SBLK

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: CHESTER LABNET
LAB SAMPLE ID NO.: 93---
SAMPLE MATRIX: WATER
DATA RELEASE AUTHORIZED BY: ..RB....

CASE NO.: ---
QC REPORT NO.: 03/30/93
CONTRACT NO.: ---
DATE SAMPLE RECEIVED: .....

SEMIVOLATILES

CONCENTRATION: LOW
DATE EXTRACTED: 3/29/93
DATE ANALYZED: 04/01/93

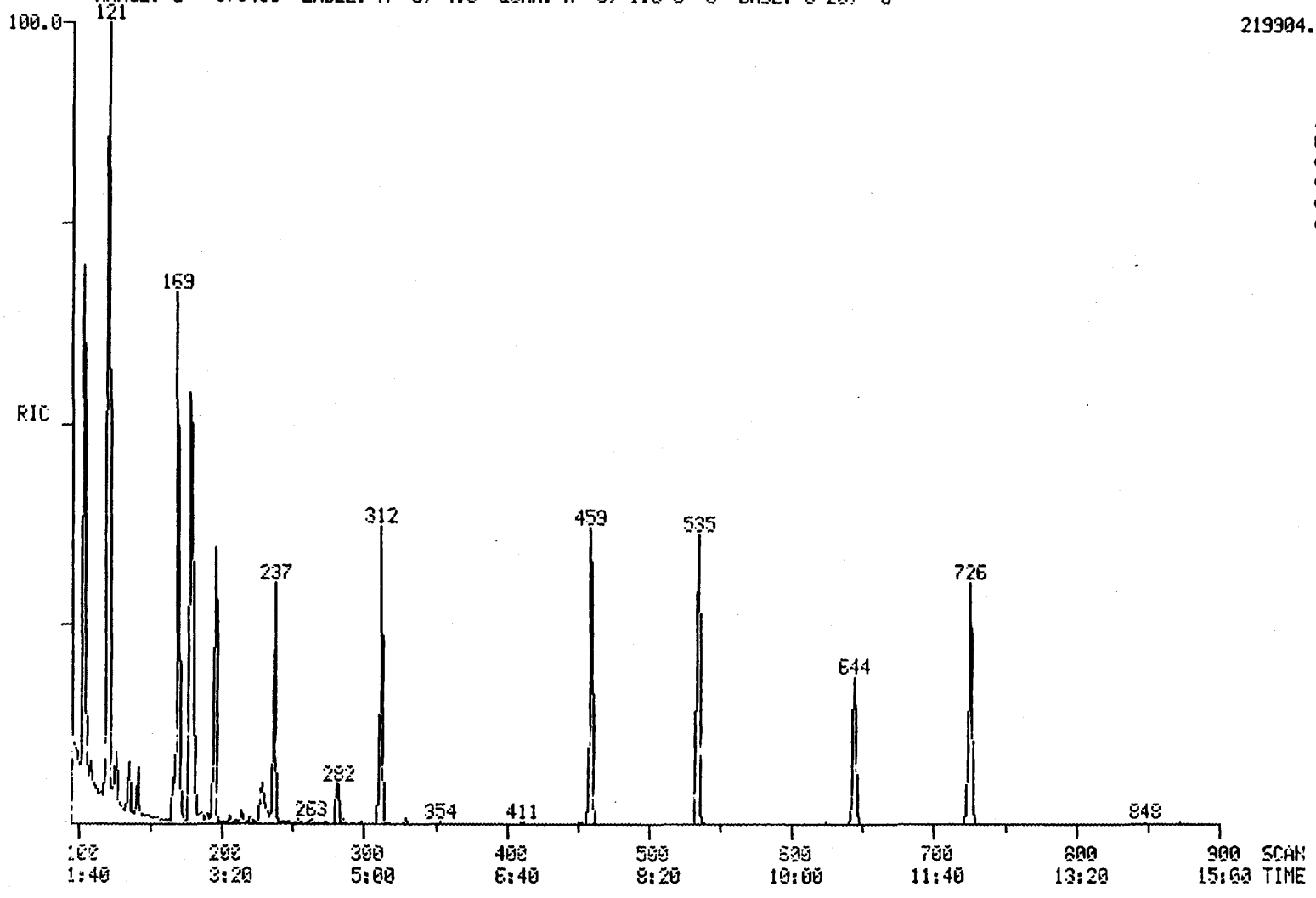
DATAFILE: 9B0329C01
DILUTION FACTOR: ....1.....

	COMPOUND	DETECTION LIMIT (MICROGRAMS / LITER)	AMOUNT FOUND
C450	NAPHTHALENE	10 U	
C540	ACENAPHTHYLENE	10 U	
C550	ACENAPHTHENE	10 U	
C590	FLUORENE	10 U	
C640	PHENANTHRENE	10 U	
C645	ANTHRACENE	10 U	
C655	FLUORANTHENE	10 U	
C715	PYRENE	10 U	
C730	BENZO(A)ANTHRACENE	10 U	
C740	CHRYSENE	10 U	
C765	BENZO(B)FLUORANTHENE	10 U	
C770	BENZO(K)FLUORANTHENE	10 U	
C775	BENZO(A)PYRENE	10 U	
C780	INDENO(1,2,3-CD)PYRENE	10 U	
C785	DIBENZO(A,H)ANTHRACENE	10 U	
C790	BENZO(GHI)PERYLENE	10 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT
J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

RIC
04/01/93 14:11:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B0329C01 #1 SCANS 95 TO 900
CALI: 9B0329C01 #3



000054

012159

012159

-14

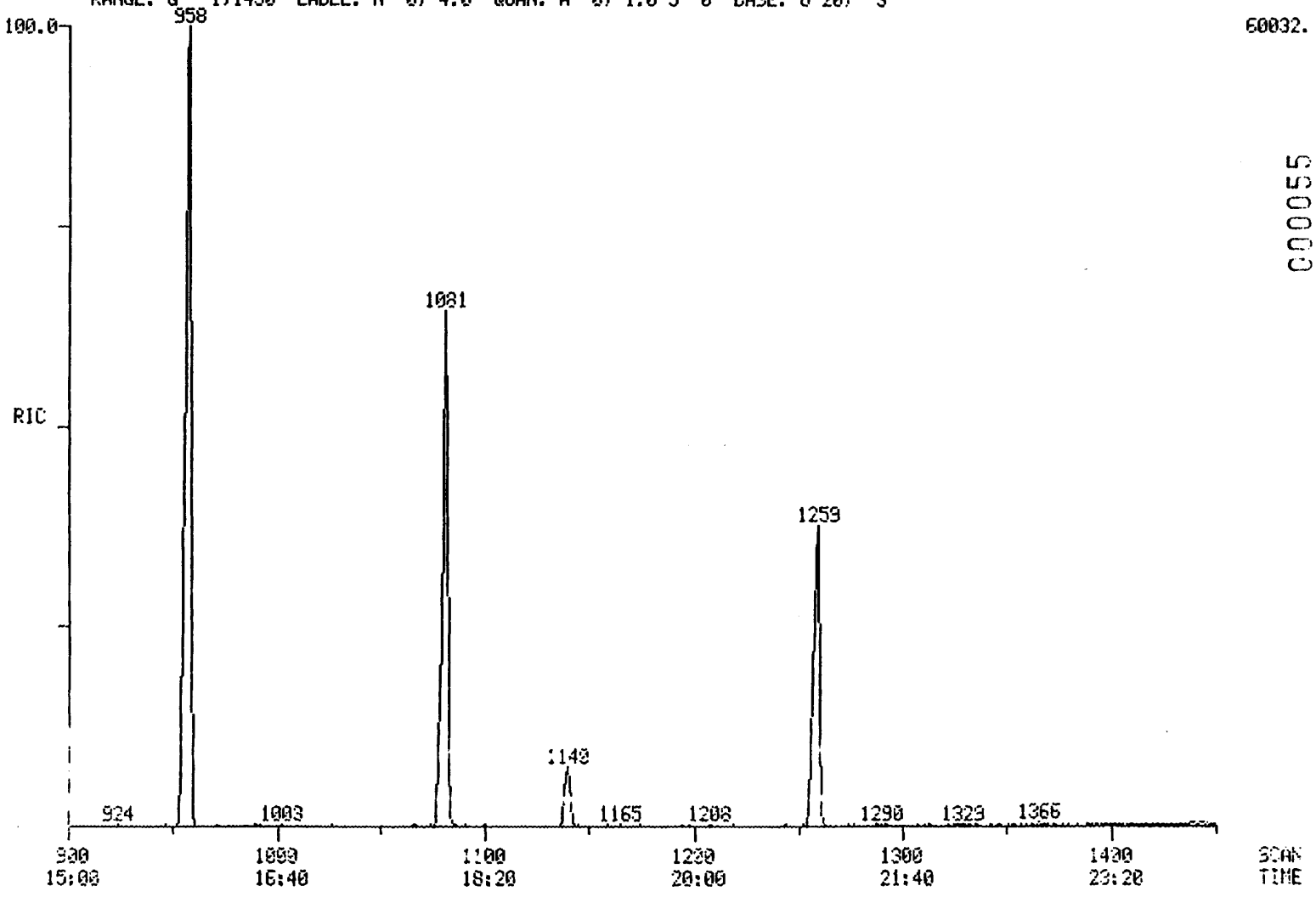
RIC
04/01/93 14:11:00
SAMPLE: SBLK
CONDS.: ---
RANGE: G 1,1450 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 9B0329C01 #1
CALI: 9B0329C01 #3

SCANS 900 TO 1450

CHESTER DC # ---

INST ID: 4510



C00055

012160

CHESTER DC # --- -14

SEMIVOLATILE WATER REPORT

SAMPLE ID. 5BLK

FILENAME 9B0329C01 INST ID. 4510

CLIENT CHESTER ANALYST JDD

DATE INJECTED 04/01/93 14:11:00 VERIFIED BY JDD

CALIB STD DATE 03/30/93 CORR. FACTOR 1.00

SCAN#		SEMIVOLATILE COMPOUNDS	M/E	AMOUNT	RRT	ARE
179	CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	20 UG/L	1.000	211
312	CI40	NAPHTHALENE-D8 ** IS2 **	136	20 UG/L	1.000	827
535	CI50	ACENAPHTHENE-D10 ** IS3 **	164	20 UG/L	1.000	480
726	CI60	PHENANTHRENE-D10 ** IS4 **	188	20 UG/L	1.000	728
1081	CI70	CHRYSENE-D12 ** IS5 **	240	20 UG/L	1.000	406
1259	CI75	PERYLENE-D12 ** IS6 **	264	20 UG/L	1.000	247
103	CS50	2-FLUOROPHENOL ** SU1 **	112	64 %	0.575	795
177	CS45	PHENOL-D5 ** SU2 **	99	63 %	0.989	1085
644	CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	59 %	1.204	97
169	CS70	2-CHLOROPHENOL-D4 ** SU7 **	132	50 %	0.944	781
195	CS75	1,2-DICHLOROBENZENE-D4 ** SU	152	51 %	1.089	238
237	CS20	NITROBENZENE-D5 ** SU3 **	82	53 %	0.760	394
459	CS25	2-FLUOROBIPHENYL ** SU4 **	172	53 %	0.858	763
957	CS30	TERPHENYL-D14 ** SU6 **	244	57 %	0.885	780

Chester LabNet - HOUSTON

Reported on : 1-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-03.248
Sample ID	: HBP0331-013	Date Collected	: 26-MAR-1992
Sample Name	: H93-03.148-001	Matrix	: WATER
Project No.	:	Date Received	: 29-MAR-1992
Client ID	: LAB BLANK	Date Extracted	: 30-MAR-1992
		Checked by	: MSM

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8040

Date Analyzed : 31-MAR-1993 18:56 Dilution Factor : 1.000
Analyzed by : 8388671

Cas #	Compound	Detection Limits	Detected Conc. ug/l	
108-95-2	PHENOL	0.60	0.60	U
105-67-9	2,4-DIMETHYLPHENOL	0.50	0.50	U
87-86-5	PENTACHLOROPHENOL	2.5	2.5	U

U = Undetected at the Listed Detection Limit .
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

012163

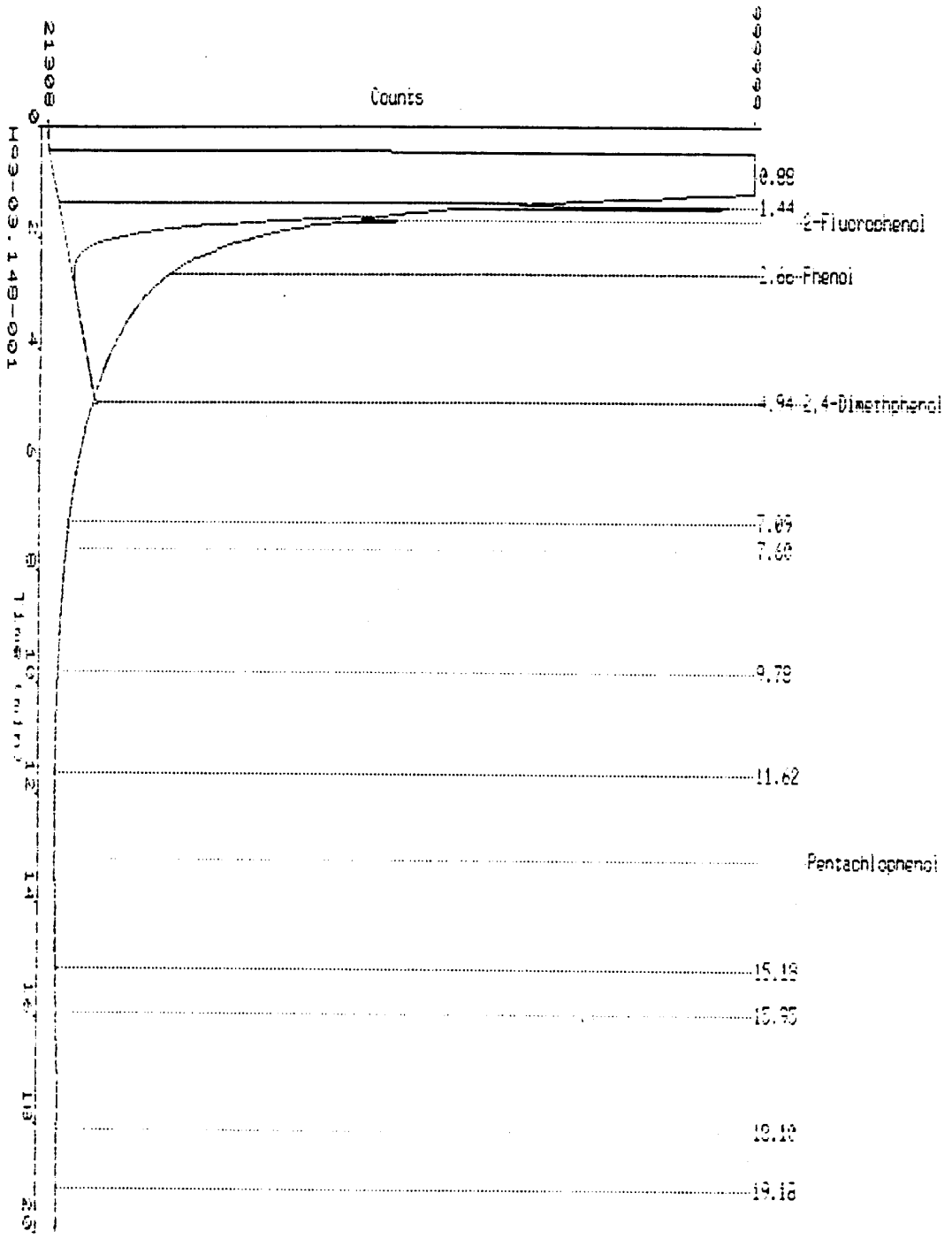
Data file: NAI$DIR:[NAI.TPH]HEP0331-013

Report: 247916

Acquired: 31-MAR-1993 18:56:03

Time range: 0.00-20.00

Vert. scale/offset: 1.0/0



Chester LabNet - HOUSTON

Date..... 1-APR-1993 08:53:11.21 Report number.....247916
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-013.RAW;1
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B.MET;22
Last method update... 1-APR-1993 08:52:28.85 Area rejection.....4000
Device.....Channel 13A Reprocess number.....1
Acq. date.....31-MAR-1993 18:56:03 Sample name....H93-03.148-001
Notes.....LAB BLANK
Analysis type.....EXTERNAL STANDARD A/D range..... 1.0 volt(s)
Report units..... Sample amount.....1.000
Volume injected.....1.000 Conversion factor...1.000

EXTERNAL SAMPLE ANALYSIS Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	PPM	Peak Area	Ref Std	BL Group
	0.884			53795940		BV
	1.443			13182488		VE
Phenol	2.656	1.43	1544.227	17382170		EB
2,4-Dimethphen	4.938	-1.58	2.178	28914		BB
	7.094			4794		BB
	7.603			4351		BB
	15.176			8469		BB
	18.100			11456		BB

Total: 84418600

012165

Date..... 1-APR-1993 10:18:53.02
Raw file.....NAI$DIR:[NAI.TPH]HBP0331-013
Method file.....NAI$DIR:[NAI.TPH]HTP0331-1B
Acq. run time.....19.983 min Acq. sample rate....1 pt(s)/sec
Acq. date.....31-MAR-1993 18:56:03

Sample name.....H93-03.148-001

MANUAL BASELINE AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref	Std	BL	R	Peak Name
1	1.692	153915	64480	100.000			MM		2-Fluorophenol
Totals		153915		100.000					

000060

Chester LabNet - HOUSTON

Reported on : 2-APR-1993

Client Name	: DAMES & MOORE	Work Order	: H93-03.248
Sample ID	: MAB0330-008	Date Received	: 29-MAR-1993
Sample Name	: H93-03.248-001	Matrix	: WATER
Project No.	:	Date Collected	: 26-MAR-1993
Checked by	:	Client ID	: LAB BLANK

Organic Analysis Data Sheet
Compounds Analysis by SW846 Method 8020

Date Analyzed : 30-MAR-1993 16:10 Dilution Factor : 1.000

Cas #	Compound	Detection Limits	Detected Conc. ug/l
71-43-2	Benzene	0.25	0.25 U
108-88-3	Toluene	0.50	0.50 U
100-41-4	Ethylbenzene	0.50	0.50 U
106-42-3	Total Xylenes	0.50	0.50 U

U = Undetected at the Listed Detection Limit .
J = Compound is present, but below the Detection Limit.
B = Compound is also found in Blank.

012167

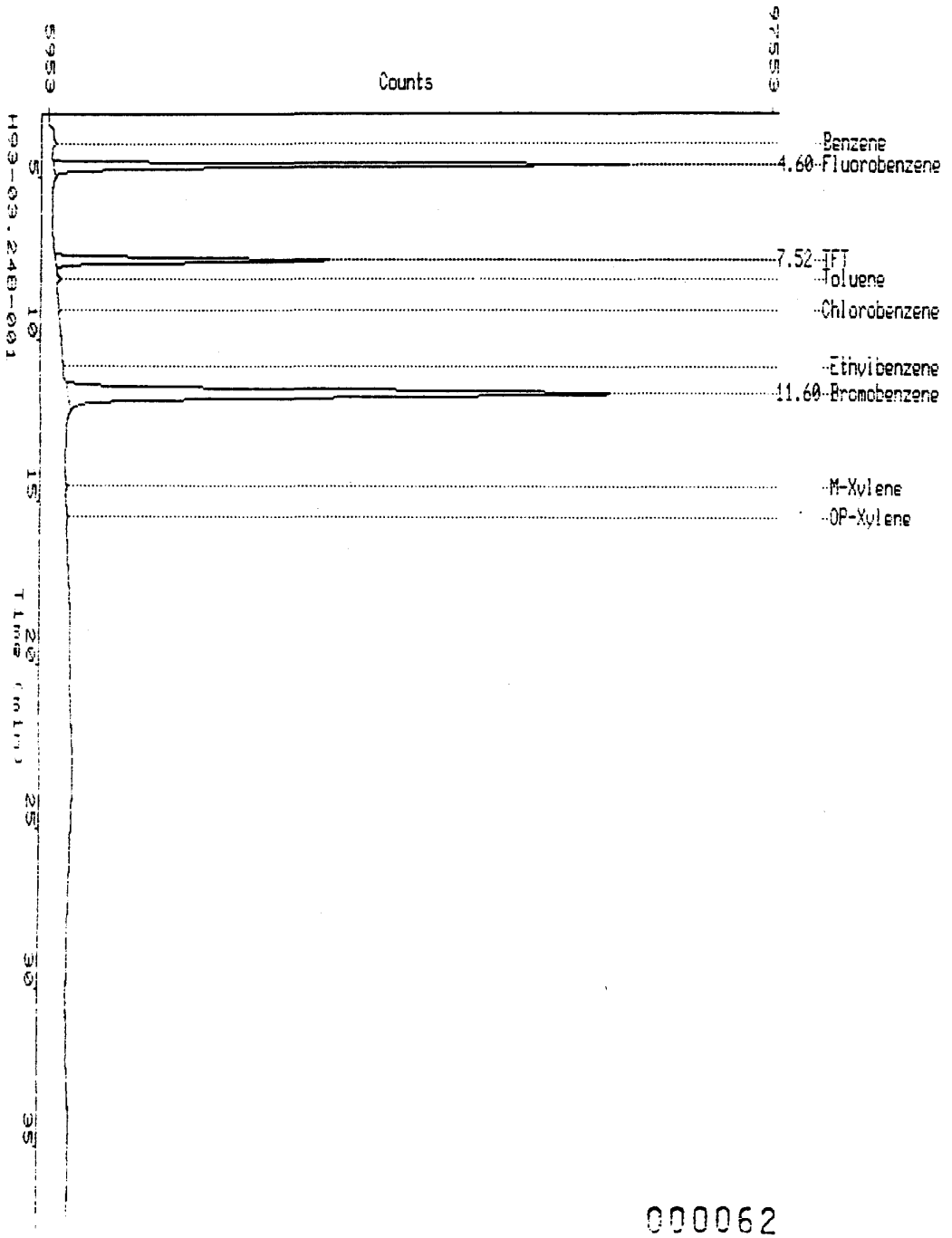
Data file: NAI$DIR:[NAI.BTEX]MAR0330-008

Report: 248252

Acquired: 30-MAR-1993 16:10:07

Time range: 3.00-35.00

Vert. scale/offset: 0.8/0



000062

Chester LabNet - HOUSTON

Date.....	1-APR-1993 16:35	Report #...	248252
Raw file.....	MAB0330-008	Column ID..	DB624 Megabore
Method file.....	MBC0330-1A	Method	0.000000
Last method update..	1-APR-1993 16:34	Area rej...	2000
Device.....	Channel 12B	Process #..	4
Acq. date.....	30-MAR-1993 16:10	Lab ID	H93-03.248-001
Analysis type.....	INTERNAL STANDARD	A/D range.....	1.0 volt(s)
Instrument ID.....	Hewlett Packard 5890K	Sample matrix ...	WATER
Volume purged.....	5.0 ml	Dilution factor..	1.000
Client ID.....	LAB BLANK		

I Calibration sample name: Multilevel

Peak name	R.T.(min)	T.Diff	ug/l	Peak Area	Ref	Std	BL	Group
	0.664			7792			BB	
Fluorobenzene	4.601	-0.64		635829		S1	BB	
TFT	7.521	-1.24	50.206	339537	R	1	BB	
Bromobenzene	11.604	-2.06		1116242		S2	BB	
Total:				2099400				

012169

Chester LabNet
Keystone Lab-Houston

WATER SAMPLE EXTRACTION LOG - BASE/NEUTRAL/ACID

3/31

Client DAMES MOOR

Keystone Lab# H93-03,248

RUSH

DASH #	Extr. Condition	Init.	✓ B/N DATE/ TIME	VI ml	VF ml	✓ Acid DATE/ TIME	VI ml	VF ml	SURROGATE # 62264 Amount (mls)	Prep. Date
001	clear, 6	BH JESHBR	03-24-93	1000mL	0.5mL	03-30-93	1000mL	0.5mL	0.5mL	03-15-93
002	cloudy light gold, 6	↓	↓	↓	↓	↓	↓	↓	↓	
			Nothing Follows							

DASH#	SAMPLE ID #	COMMENTS	SPIKE ID Prep. Date	SPIKE (mls)
001	LAB BLK			
002	PADS STORM WATER			
		Nothing Follows		

Conc. 03-30-93 BHRAY

Temp. 60°C

Solvent Lot# BE366 Chall

Report Date: 3-31-93 JL

Nitrogen Blowdown: 3-31-93 JL

~~000061~~ 000064

012170

Chester LabNet

Ext 8040
~~PESTICIDES/HERBICIDES~~

CHESTER WO NO. H93-03.248 RUSH CLIENT: DAMES-MOOR

Dash No.	Tech	Sample ID	pH	Ext 8040 ~~PESTICIDE~~ Date/Time	V_1 ml	V_F ml	HERBICIDE Date	V_1	Tech.	ESTERFICATION Date	Tech.	V_F
001	BH+AY	LAB BLK	6	03-30-93	1000mL	1.0mL						
002	↓	PADS STORM WATER	6	↓	↓	↓						
				Nothing Follows								

Dash No.	Comments	Alumina Sulfur Florisil Sulfuric Acid Perchlorination Date/Time of clean up	Tech.	Surrogate No. Date 3-270-5	Surr Vol.	SPK# Date	SPK Vol.
001	clear, 6			8040 SURR 1 03-30-93	1.0mL		
002	cloudy light gold, 6			↓	↓		
	* We adjusted the pH to less than 2 prior to extraction.						
	* We did 2-propanol exchange at blowdown.						
		Nothing Follows					

Conc. 03-31-93 BH+AY

Temp. 60°C

Solvent Lot # BE 366 CH_2Cl_2

Report Date 3-31-93 JL

Nitrogen Blowdown 3-31-93 JL

BLK = Lab Blank
MS = Matrix Spike

Pesticide/Herbicides (10/89)

000065

~~000~~

012170

012171

29-MAR-1993

PRIORITY

REVISED

Page

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 29-MAR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-03.248
Due Date : 31-MAR-1993
Date Rec'd : 29-MAR-1993
Project ID :
P.O. Number:

Attention:

Contact: BRUCE HIKMAN

Job Description: DAMES&MOORE (RCRA)
Number of samples: 2 Sampled by: CLIENT

Job Comments:
RESULTS DUE BY 03/31/93.MS_SV NOTE:PLEASE ANLAYZE FOR PAH'S.
PLEASE SEE ATTACHED SHEET FOR DETECTION LIMITS.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
248-001	LAB BLANK	QA_QC	WATER	26-MAR-93
248-002	PADS STORM WATER	X	WATER	26-MAR-93

Analysis ID	Parameter Description	Number of Analyses
AG	Silver	2
AS_GF	ARSENIC BY GRAPHITE FURNACE	2
BOD5	Biochemical Oxygen Demand (5 Day)	2
BTEX_8020	BTEX by Method 8020	2
CD	Cadmium	2
CR_III	(AS)Trivalent Chromium	2
CR_VI	(AS)Hexavalent Chromium	2
CU	Copper	2
EXT_8040	EXTRACTION BY GC8040	2
EXT_8270	Extraction by EPA 8270	2
GC_8040	GC_8040 FOR WATER	2
HARDNESS	Hardness	2
HG	Mercury	2
NI	Nickel	2
OILS	Oil/Grease, Total Recoverable Gravimetric	2
PB	Lead	2
PH	Hydrogen ion activity (EPA 150.1)	2
SE_GF	SELENIUM BY GRAPHITE FURNACE	2
SV_TCL	Semivolatiles (Target Compound List)	2
TOC	Total Organic Carbon	2

[illegible] BARTONIOS
FM BRUCE HILKMAN
3 PGS
PH: 222-2710

97A
5A91

012172

TABLE 1A-2

ANALYTICAL TESTING METHODS FOR WATER

Parameter	Analytical Method	Practical Quantitation Limit
pH	EPA 150.1	---
Oil and Grease	EPA 413.1	5 mg/l
Hardness	EPA 130.2	1 mg/l
Total Organic Carbon	EPA 415.1	1 mg/l
Biochemical Oxygen Demand	EPA 405.1	1 mg/l
Total Suspended Solids	EPA 160.2	1 mg/l
Polynuclear Aromatic Hydrocarbons		
Acenaphthene	EPA 8270	10 ug/l
Acenaphthylene	EPA 8270	10 ug/l
Anthracene	EPA 8270	10 ug/l
Benzo(a)anthracene	EPA 8270	10 ug/l
Benzo(a)pyrene	EPA 8270	10 ug/l
Benzo(b)fluoranthene	EPA 8270	10 ug/l
Benzo(g,h,i)perylene	EPA 8270	10 ug/l
Benzo(k)fluoranthene	EPA 8270	10 ug/l
Chrysene	EPA 8270	10 ug/l
Dibenz(a,h)anthracene	EPA 8270	10 ug/l
Fluoranthene	EPA 8270	10 ug/l
Fluorene	EPA 8270	10 ug/l
Indeno(1,2,3-cd)pyrene	EPA 8270	10 ug/l
Naphthalene	EPA 8270	10 ug/l
Phenanthrene	EPA 8270	10 ug/l
Pyrene	EPA 8270	10 ug/l
Phenolics		
Phenol	EPA 8040	5 ug/l
2,4-Dimethylphenol	EPA 8040	5 ug/l
Pentachlorophenol	EPA 8040	1 ug/l
Metals		
Arsenic	EPA 7060	10 ug/l
Cadmium	EPA 6010	1 ug/l
Copper	EPA 6010	10 ug/l
Cyanide	EPA 9012	20 ug/l
Lead	EPA 7421	10 ug/l

TABLE 1A-2 (Continued)

ANALYTICAL TESTING METHODS FOR WATER

Parameter	Analytical Method	Practical Quantitation Limit
Metals (Cont.)		
Mercury	EPA 7470	2 ug/l
Hexavalent Chromium	EPA 7196	10 ug/l
Trivalent Chromium	EPA 6010	10 ug/l
Nickel	EPA 7170	10 ug/l
Selenium	EPA 7740	20 ug/l
Silver	EPA 6010	2 ug/l
Zinc	EPA 6010	0.5 ug/l
Volatile Organics		
Benzene	EPA 8020	0.2 ug/l
Toluene	EPA 8020	0.2 ug/l
Ethylbenzene	EPA 8020	0.2 ug/l

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number 18804-108

Project Location South Cavalcade

Laboratory Keystone

Sampler(s) Wesley Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	PH EPA 150.1	O&G EPA 413.1	Hardness EPA 130.2	Total Org. Carbon EPA 415.1	Biochem. Oxygen Demand EPA 405.1	TSS EPA 160.2	PAH EPA 8270	Phenolics EPA 8040	Metals EPA 7060, 7470, 6010, 7196, 7470, 7740	VOA EPA 8020	TOTAL
3/23 Rain (Soil Washing Pad Stormwater)	3/26/93	—	—	—	—	—	—	—	—	—	—	
(Soil Washing Pad Stormwater)												

Relinquished by: W. [illegible]	Organization: Dames & Moore	Date: 3/26/93	Time 6:00 PM	Seal Intact?
Received by: D. [illegible]	Organization: [illegible]	Date: 3/26/93	Time 6:00 PM	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks: Per Table 1A-2 Analytical Testing Methods for Water South Cavalcade

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____ specify

012174

630000

012174

012175

Report
Prepared
for

Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Attention : Wes Fiandt

by

Chester LabNet - Houston
8300 Westpark Drive
Houston, Texas 77063
(713) 266-6800

CERTIFIED BY : Bobby Barrientos

Bobby Barrientos
Project Manager

PROJECT ID :
P.O. NUMBER : 18804

WORK ORDER : H93-03.284
DATE RECEIVED : 31-MAR-1993

SAMPLE & ANALYSIS SUMMARY

Chester LabNet Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H93-03.284-001	LAB BLANK	31-MAR-1993	WATER
H93-03.284-002	STORMWATER SOIL WASH PA	31-MAR-1993	WATER

Analysis ID	Parameter Description
CR_VI	(AS)Hexavalent Chromium

Is this the same as the sample?

JH

012177

CASE NARRATIVE

SECTION I

LABORATORY:KEYSTONE HOUSTON

DOC. CONT NO:NA

PROJECT NO.: 18804

SITE: S. CAVALCADE

LAB NO.:H93-03.284

I. RECEIPT

A. DATE: MAR. 31, 1993

B. NO. OF SAMPLES: 1 SAMPLE.

C. CLIENT ID NUMBERS: STORMWATER SOIL
WASH PAD RAIN

D. SAMPLE TYPE: WATER

E. ANALYSIS REQUESTED: HEXAVALENT CHROMIUM

F. SHIPPING PROBLEMS: None.

G. QC DISTRIBUTION: None

H. ANALYSIS INFORMATION: Hexavalent Chromium has a 24HR. holding time period; therefore the reporting of data has been placed under separate Work Order.

I. COMMENTS: The analysis for Hexavalent Chromium(CR VI) is one of several parameters that falls under Work Order H93-03.248 for Storm Water.

According to Contract, all sample data Faxed (4/1/93) as a prelimiary to receival of Data Package.

Robert R. Barrientos

Robert R. Barrientos, Project Manager

April 06, 1993

Date

000001

7-APR-1993

012178

Summary of Analytical Results

Date received: 31-MAR-1993 Customer: Dames and Moore Job name: H93-03.284

		Samples	
Chester LabNet ID		284-001	284-002
Sampling Point		QA QC	X
Date Sampled		31-MAR-1993	31-MAR-1993
Customer ID		LAB BLANK	STORMWATER SOIL WASH PAD RAIN
Parameters	Units		
METALS			
Hexavalent Chromium	µg/L	<1.0	11.0

000002

Keystone Lab-Houston

CHAIN-OF-CUSTODY RECORD

Page 1 of ____

Project Number 18804

Project Location South Cavalcade

Laboratory Keystone

Sampler(s) Wes Fiandt

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Date Sampled	Hex Chrom (EPA 7196)											TOTAL
Stormwater Soil Washing Pad													
Rain from 3/23/93	3/31/93	X	1:00										

Relinquished by: W. [illegible]	Organization: Dames & Moore	Date: 3/31/93	Time 3:45	Seal Intact?
Received by: Heather Jwarmonis	Organization: CHESTER ENVIRONMENTAL	Date: 3/31/93	Time 3:45	Yes No N/A
Relinquished by:	Organization:	Date: / /	Time	Seal Intact?
Received by:	Organization:	Date: / /	Time	Yes No N/A

Special Instructions / Remarks: per TWC permit

Delivery Method: ☒ In Person ☐ Common Carrier _____ specify ☐ Lab Courier ☐ Other _____ spec

012179

012180

31-MAR-1993 P

KEYSTONE LAB - HOUSTON
Job Summary Sheet

Produced on 31-MAR-1993

DAMES_MOOR
Dames and Moore
4321 Directors Row
Suite 200
Houston, TX 77092

Work Order : H93-03.284
Due Date : 12-APR-1993
Date Rec'd : 31-MAR-1993
Project ID :
P.O. Number: 18804

Attention: Contact: WES FIANDT

Job Description: DAMES & MOORE (RIRA)
Number of samples: 2 Sampled by: CLIENT

Job Comments:
SAMPLE WAS COLLECTED ON 3/31/93 AT 12:13 pm.
SAMPLE IDENTIFICATION

Lab ID	Client ID	Samp Pnt.	Sample Matrix	Date Sampled
284-001	LAB BLANK	GA_GC	WATER	31-MAR-93
284-002	STORMWATER SOIL WASH PAD RAIN	X	WATER	31-MAR-93

Analysis ID	Parameter Description	Number of Analyses
CR_VI	(AS)Hexavalent Chromium	1

000004

012180

CHESTER LabNet

012181

MEMORANDUM

DATE: October 12, 1993

TO: Ms. Patty Sallivan

FROM: Bobby Barrientos

RE: South Cavalcade

Enclosed please find MS/MSD spike amounts

SEMI-VOLATILES	
BASE NEUTRALS	50 UG/L
ACIDS	75 UG/L
VOLATILES	5 UG/L

Bobby Barrientos
Project Manager

Enclosure

COC for 6.253

Samples Submitted for C-PAH analysis

HAZEN

HAZEN RESEARCH, INC.
4601 Indiana St. · Golden, CO 80403
Tel.: (303) 279-4501 · Telex 45-860

CHAIN OF CUSTODY RECORD

Proj No.

Project Name: 8074

Samplers (Signature): [signature]

Sta. No.	Date	Time	Comp.	Grab	Station Location (Sample ID#)	No. of Containers							Remarks
3R	6/23/93				+1 F&G 2.0 float	1							Crushed to -1/4"
6R	"				-1" +10m F&G 2.0 float	1							Crushed -1/4"
50	"				+10m SD F&G Head	1							
51	"				-10m +80m SD F&G	1							PSA3
52	"				-80m +200m SD F&G	1							PSA3
53	"				-200m SD F&G	1							PSA3
54	"				-10m +80m F&G Mix	1							
55	"				+80m Scrub F&G Mix	1							Scrub
56	"				-80m Scrub F&G Mix	1							Scrub
57	"				F&G Mix Head	1							
58	"				F/G Mix-FT6-0:5mm	1							FT-6
59	"				F/G Mix-FT6-5:15mm	1							FT-6
60	"				F/G Mix-FT6-15:25mm	1							FT-6
61	"				F/G Mix-FT6-Tails	1							FT-6
62	"				F/G Mix-FT7-0:5mm	1							FT-7
63	"				F/G Mix-FT7-5:15	1							FT-7

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6/23/93 4:00 pm.				
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)	Remarks:		
	6-28-93/8:00	[signature]			

Distribution: White Copy - Ship With Sample; Canary Copy - Laboratory Copy; Pink Copy - Originator's Copy

012182

012182

HAZEN

HAZEN RESEARCH, INC.
4601 Indiana St. · Golden, CO 80403
Tel.: (303) 279-4501 · Telex 45-860

Samples submitted for c-PAH analysis

CHAIN OF CUSTODY RECORD

Proj No.

Project Name 8074

Samplers (Signature) John Hammona

Sta. No.	Date	Time	Comp.	Grab	Sample ID# Station Location	No. of Containers	Remarks
64	6/23/93				F/G Mix - FT7 15:25 min	1	FT7
65	6/23/93				F/G Mix - FT7 Tails	1	FT7
66	"				F/G Mix - FT8 - 0:5 min	1	FT8
67	"				F/G Mix - FT8 - 5:15 min	1	FT8
68	"				F/G Mix - FT8 - 15:25	1	FT8
69	"				F/G Mix - FT8 - Tails	1	FT8
70	"				F/G Mix - FT9 - 0:5 min	1	FT9
71	"				F/G Mix - FT9 - 5:15 min	1	FT9
72	"				F/G Mix - FT9 - 15:25 min	1	FT9
73	"				F/G Mix - FT9 - Tails	1	FT9
74	"				F/G Mix - FT10 - 0:5 min	1	FT10
75	"				F/G Mix - FT10 - 5:15 min	1	FT10
76	"				F/G Mix - FT10 - 15:25	1	FT10
77	"				F/G Mix - FT10 - Tails	1	FT10
78	"				F/G Mix - FT11 - 0:5 min	1	FT11
79	"				F/G Mix - FT11 - 5:15	1	FT11

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
John Hammona	6/23/93 4:00 pm				
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)	Remarks:		
	6/28/93	Anthony			

Distribution: White Copy - Ship With Sample; Canary Copy - Laboratory Copy; Pink Copy - Original

012183

012183

HAZEN

HAZEN RESEARCH, INC.
4601 Indiana St. · Golden, CO 80403
Tel.: (303) 279-4501 · Telex 45-860

Samples Submitted for C-PAH analysis

CHAIN OF CUSTODY RECORD

Proj No.	Project Name 8074
Samplers (Signature) [signature]	

Sta. No.	Date	Time	Comp.	Grab	Sample I.D. # / Station Location	No. of Containers							Remarks
80	6/23/93				F/G Mix - FT11-15:25	1							FT11
81	6/23/93				F/G Mix - FT11-Tails	1							FT11

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6/23/93 4:00 pm				
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)	Remarks:		
	6-28-93 8:00	[signature]			

Dis[illegible]on: White Copy - Ship With Sample; Canary Copy - Laboratory Copy; Pink Copy - Or[illegible]or's Copy

012184

012184

Keystone Lab - Houston
Water Surrogate Recovery Summary
Keystone Work Order # H93-03.269

012185

Client Sample Name	S1 NBZ	S2 FBP	S3 TPH	S4 PHL	S5 2FP	S6 TBP	S7 2CP	S8 DCB
LAB BLANK SC-WR-B	NA DL	NA DL	74 DL	75 DL	NA DL	67 DL	NA DL	NA DL

Surrogate Name	QC LIMITS	Surrogate Name	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	35-114	S2 (FBP) = 2-Fluorobiphenyl	43-116
S3 (TPH) = Terphenyl-d14	33-141	S4 (PHL) = Phenol-d5	10-110
S5 (2FP) = 2-Fluorophenol	21-110	S6 (TBP) = 2,4,6-Tribromophenol	10-123
S7 (2CP) = 2-Chlorophenol-d4	33-110**	S8 (DCB) = 1,2-Dichlorobenzene-d4	16-110**

0 out of 6 : outside of QC limits.

* = Values are outside of QC limits
** = Advisory QC Limits
DL = DILUTED OUT
NA = Not Applicable

Surrogates diluted out

012186

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	05/27/93	Sens Time:	12:19:00
Lab ID:	FS0527C01	Cali Date:	05/26/93	Analyst:	JDD

Data release authorized by: Juanita D. Drummond

M/E	Ion Abundance Criteria	Spec # 262	
51	30 to 60% of mass 198	36.48	
68	less than 2% of mass 69	0.25	(0.72) 1
69	mass 69 relative abundance	34.35	
70	less than 2% of mass 69	0.58	(1.70) 1
127	40 TO 60% of mass 198	53.42	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.29	
275	10 TO 30% of mass 198	20.70	
365	greater than 1% of mass 198	1.25	
441	less than mass 443	5.78	
442	greater than 40% of mass 198	60.10	
443	17 TO 23% of mass 442	10.35	(17.22) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

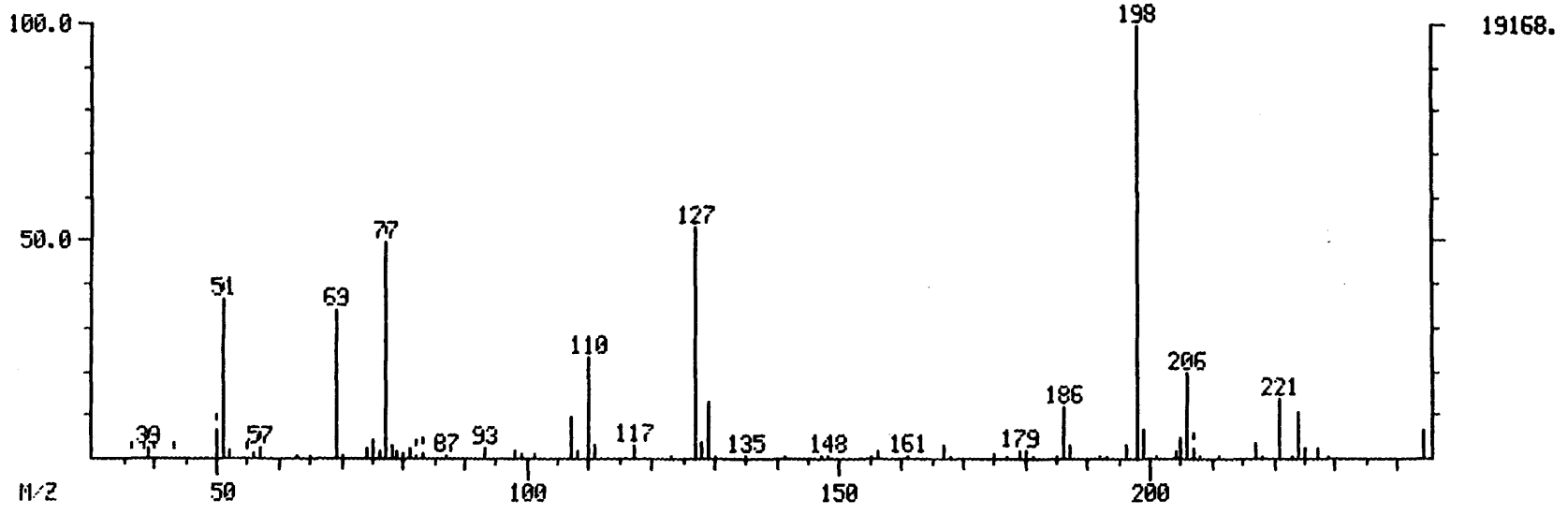
-15

MASS SPECTRUM
05/27/93 12:19:00 + 4:23
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#262 TO #264 SUMMED - #250

DATA: FS0527C01 #263
CALI: FS0527C01 #3

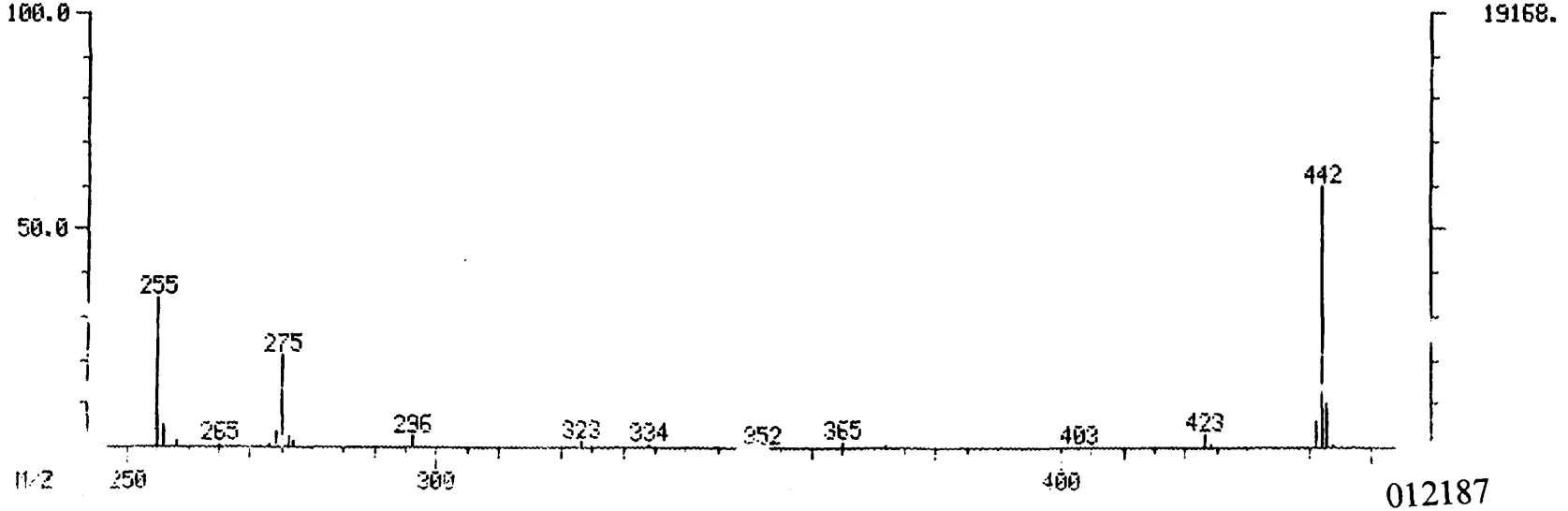
BASE M/Z: 198
RIC: 124800.

CHESTER DC # ---



DFTPP SPECTRA

INST ID: 4510



012187

INST ID: 4510 CHESTER DC # ---

DFTPP MASS LISTING

Mass List Data: FS0527C01 # 263 Base m/z: 198

05/27/93 12:19:00 + 4:23 Cali: FS0527C01 # 3 RIC: 124800.

Sample: DFTPP

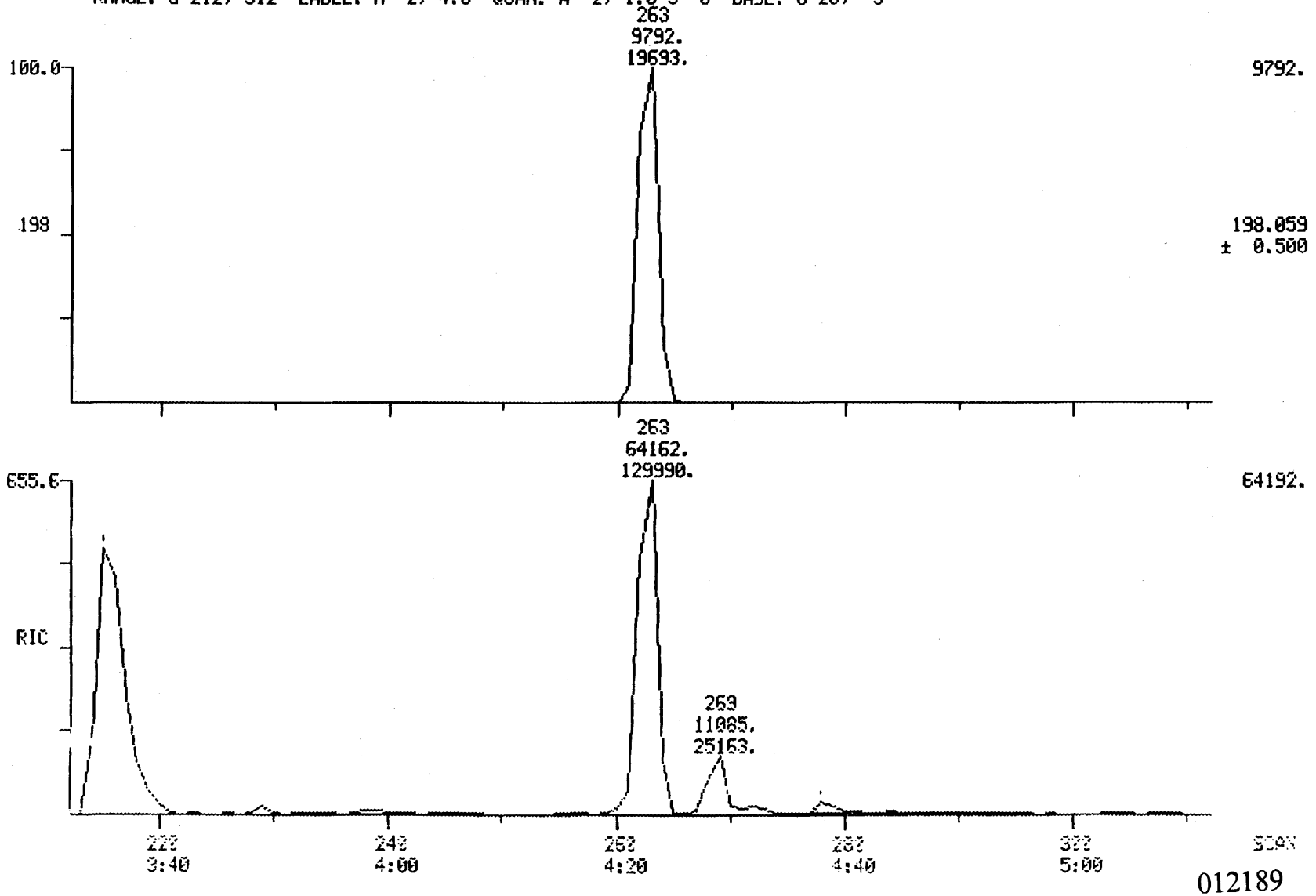
Mds.: ---

#262 to #264 summed - #250

012188

36		0.00	0.	Minima	Min	Inten:	48.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
39?	S	2.57	493.	177		0.55	105.
43	S	0.29	55.	179		1.96	376.
50	S	6.42	1230.	180		1.59	305.
51	S	36.48	6992.	181		0.73	140.
52		1.72	329.	185		0.67	128.
55	S	0.25	48.	186		12.17	2332.
56		1.16	223.	187		3.27	627.
57	S	2.29	439.	192		0.47	91.
63		0.87	167.	193		0.63	120.
65		0.69	133.	196		2.95	566.
69		34.35	6584.	198		100.00	19168.
70		0.58	111.	199		6.29	1206.
74		2.14	410.	201		0.40	77.
75		4.23	811.	204		1.72	330.
76		1.51	290.	205		4.53	868.
77	S	49.83	9552.	206		19.95	3824.
78		3.21	616.	207	S	2.14	410.
79		1.58	302.	208		0.43	82.
80		1.04	199.	211		0.70	135.
81		2.17	415.	217		3.78	724.
82	S	0.47	90.	218		0.46	89.
83	S	1.00	192.	221		13.48	2584.
87		0.75	144.	223		0.76	145.
91		0.30	57.	224		10.57	2026.
93		2.19	420.	225		2.31	443.
98		1.75	336.	227		2.13	408.
99		1.50	287.	229		0.63	121.
101		0.90	173.	244		6.70	1284.
105		0.27	51.	245		0.81	155.
107		9.53	1826.	246		0.73	140.
108		1.81	347.	255		34.18	6552.
110		23.21	4448.	256		4.62	886.
111		2.97	570.	258		1.07	206.
117		3.21	615.	265		0.40	76.
123		0.66	127.	273		0.88	168.
127		53.42	10240.	274		3.34	640.
128		3.47	666.	275		20.70	3968.
129		13.42	2572.	276		2.35	451.
130		0.81	155.	277		0.99	189.
135		0.79	151.	296		2.57	493.
141		0.87	167.	323		1.08	207.
142		0.26	49.	334		0.62	119.
147		0.60	115.	365		1.25	239.
148		0.87	167.	372		0.58	111.
55		0.51	98.	423		2.93	562.
156		1.70	326.	424		0.30	58.
161		0.62	118.	441		5.78	1108.
167		2.94	564.	442		60.10	11520.
168		0.88	168.	443		10.35	1984.
175		1.17	224.	444		0.69	132.

RIC+MASS CHROMATOGRAM DATA: FS0527C01 #262 SCANS 212 TO 312
05/27/93 12:19:00 CALI: FS0527C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 212, 312 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



012189

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --- CONTRACT LAB: KEYSTONE

CONTRACT NO. --- INSTRUMENT IDENTIFIER: 4510

CALIBRATION DATE: 05/26/93

STANDARD FILE: FS0527C02

TIME: 05/27/93 TIME: 12:43

MAXIMUM % D FOR CCC IS 20

012190

	COMPOUND	MEAN RF(I)	RF(D)	% D
C315	PHENOL	1.853	1.991	7.466
C325	BIS(2-CHLOROETHYL)ETHE	1.400	1.556	11.160
C330	2-CHLOROPHENOL	1.416	1.466	3.497
C335	1,3-DICHLOROBENZENE	1.492	1.459	-2.222
C340	1,4-DICHLOROBENZENE	1.564	1.511	-3.401
C345	BENZYL ALCOHOL	0.722	0.916	26.746
C350	1,2-DICHLOROBENZENE	1.397	1.378	-1.341
C355	2-METHYLPHENOL	1.388	1.392	0.315
C357	2,2'-OXYBIS(1-CHLOROPR	2.077	2.043	-1.626
C365	4-METHYLPHENOL	1.459	1.421	-2.571
C370	N-NITROSODIPROPYLAMINE	1.005	0.999	-0.612
C375	HEXACHLOROETHANE	0.510	0.493	-3.293
C410	NITROBENZENE	0.519	0.474	-8.600
C415	ISOPHORONE	0.749	0.716	-4.331
C420	2-NITROPHENOL	0.231	0.210	-9.328
C425	2,4-DIMETHYLPHENOL	0.284	0.267	-6.118
C430	BENZOIC ACID	0.197	0.209	6.291
C435	BIS(2-CHLOROETHOXY)MET	0.493	0.462	-6.353
C440	2,4-DICHLOROPHENOL	0.302	0.289	-4.262
5	1,2,4-TRICHLOROBENZENE	0.301	0.283	-5.912
0	NAPHTHALENE	1.064	0.932	-12.436
C455	4-CHLOROANILINE	0.481	0.455	-5.395
C460	HEXACHLOROBUTADIENE	0.128	0.125	-2.227
C465	P-CHLORO-M-CRESOL	0.271	0.284	4.800
C470	2-METHYLNAPHTHALENE	0.794	0.793	-0.168
C510	HEXACHLOROCYCLOPENTADI	0.232	0.175	-24.781
C515	2,4,6-TRICHLOROPHENOL	0.379	0.306	-19.294
C520	2,4,5-TRICHLOROPHENOL	0.281	0.305	8.404
C525	2-CHLORONAPHTHALENE	1.041	0.917	-11.894
C530	2-NITROANILINE	0.375	0.338	-9.891
C535	DIMETHYL PHTHALATE	1.210	1.121	-7.339
C540	ACENAPHTHYLENE	1.731	1.402	-19.008
C545	3-NITROANILINE	0.374	0.343	-8.231
C550	ACENAPHTHENE	0.946	0.812	-14.142
C555	2,4-DINITROPHENOL	0.157	0.140	-10.396
C560	4-NITROPHENOL	0.087	0.090	3.194
C565	DIBENZOFURAN	1.395	1.286	-7.824
C570	2,4-DINITROTOLUENE	0.266	0.278	4.517
C573	2,6-DINITROTOLUENE	0.301	0.266	-11.602
C580	DIETHYL PHTHALATE	1.079	1.073	-0.513
C585	4-CHLOROPHENYL PHENYL	0.678	0.641	-5.394
C590	FLUORENE	1.093	0.961	-12.046
C595	4-NITROANILINE	0.314	0.284	-9.543
C610	4,6-DINITRO-2-METHYLPH	0.113	0.111	-1.588
C615	N-NITROSODIPHENYLAMINE	0.503	0.524	4.145
5	4-BROMOPHENYL PHENYL E	0.194	0.181	-6.600
C630	HEXACHLOROBENZENE	0.180	0.166	-7.330
C635	PENTACHLOROPHENOL	0.132	0.124	-5.398
C640	PHENANTHRENE	1.379	1.108	-19.613
C645	ANTHRACENE	1.149	1.052	-8.486
C650	DI-N-BUTYL PHTHALATE	2.019	1.724	-14.612
C655	FLUORANTHENE	1.584	1.293	-18.323

C715	PYRENE	1.521	1.293	-14.980
C720	BUTYL BENZYL PHTHALATE	0.813	0.749	-7.809
C725	3,3'-DICHLOROBENZIDINE	0.407	0.380	-6.563
C730	BENZO(A)ANTHRACENE	1.498	1.233	-17.684
C745	BIS(2-ETHYLHEXYL)PHTHA	1.222	1.151	-5.736
10	CHRYSENE	1.012	0.942	-6.906
760	DI-N-OCTYL PHTHALATE	2.173	2.052	-5.558
C765	BENZO(B)FLUORANTHENE	1.484	1.283	-13.525
C770	BENZO(K)FLUORANTHENE	0.983	0.808	-17.793
C775	BENZO(A)PYRENE	1.108	0.974	-12.148
C780	INDENO(1,2,3-CD)PYRENE	0.949	0.848	-10.660
C785	DIBENZO(A,H)ANTHRACENE	0.885	0.831	-6.101
C790	BENZO(GHI)PERYLENE	0.956	0.897	-6.203
C810	N-NITROSODIMETHYLAMINE	1.205	1.364	13.164
C820	1,2-DIPHENYL-HYDRAZINE	0.767	0.752	-1.962
C870	2-CHLOROPHENOL-D4 ** S	1.917	2.118	10.492
C875	1,2-DICHLOROBENZENE-D4	0.813	0.846	4.122
C647	CARBAZOLE	1.286	1.139	-11.454
C850	2-FLUOROPHENOL ** SU1	1.645	1.765	7.283
C845	PHENOL-D5 ** SU2 **	1.950	2.194	12.484
C855	2,4,6-TRIBROMOPHENOL	0.150	0.158	4.781
C820	NITROBENZENE-D5 ** SU3	0.380	0.397	4.491
C825	2-FLUOROBIPHENYL ** SU	1.055	1.053	-0.189
C830	TERPHENYL-D14 ** SU6	1.217	1.217	0.020

BENZENETHIOL
METHYL CHRYSENE
QUINOLINE
C720 1-METHYLNAPHTHALENE
7,12-DIMETHYLBENZ(A)ANTHRACE
DIBENZ(A,H)ACRIDINE
4-METHYLPHENOL
ANE
A950 PYRIDINE
A953 2,6-DICHLOROPHENOL
A987 2,5-DICHLOROPHENOL
A988 3,4-DICHLOROPHENOL
A989 2,3-DICHLOROPHENOL
A990 3,5-DICHLOROPHENOL
A991 1,3,5-TRICHLOROBENZENE
A992 1,2,3-TRICHLOROBENZENE

012191

CHESTER DC # ----17

SV STANDARD REPORT

012192

PLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0527C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 05/27/93 12:43:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	218	40	14336	1.000	0.99
CI40	NAPHTHALENE-D8 ** IS2 **	136	358	40	49364	1.000	0.99
CI50	ACENAPHTHENE-D10 ** IS3 **	164	586	40	30908	1.000	0.99
CI60	PHENANTHRENE-D10 ** IS4 **	188	780	40	54600	1.000	0.99
CI70	CHRYSENE-D12 ** IS5 **	240	1141	40	58151	1.000	0.99
CI75	PERYLENE-D12 ** IS6 **	264	1321	40	57737	1.000	0.99
CS50	2-FLUOROPHENOL ** SU1 **	112	125	50	31635	0.573	1.76
CS45	PHENOL-D5 ** SU2 **	99	205	50	39310	0.940	2.19
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	694	50	6091	1.184	0.15
CS20	NITROBENZENE-D5 ** SU3 **	82	279	50	24517	0.779	0.39
CS25	2-FLUOROBIPHENYL ** SU4 **	172	507	50	40671	0.865	1.05
CS30	TERPHENYL-D14 ** SU6 **	244	1012	50	88445	0.887	1.21
C315	PHENOL	94	206	50	35683	0.945	1.99
C325	BIS(2-CHLOROETHYL)ETHER	93	204	50	27879	0.936	1.55
C330	2-CHLOROPHENOL	128	204	50	26266	0.936	1.46
C335	1,3-DICHLOROBENZENE	146	214	50	26142	0.982	1.45
C340	1,4-DICHLOROBENZENE	146	219	50	27078	1.005	1.51
C345	BENZYL ALCOHOL	108	242	50	16408	1.110	0.91
C350	1,2-DICHLOROBENZENE	146	237	50	24700	1.087	1.37
C355	2-METHYLPHENOL	108	264	50	24945	1.211	1.39
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	259	50	36617	1.188	2.04
C365	4-METHYLPHENOL	108	281	50	25466	1.289	1.42
C370	N-NITROSODIPROPYLAMINE	70	275	50	17908	1.261	0.99
C375	HEXACHLOROETHANE	117	268	50	8843	1.229	0.49
C410	NITROBENZENE	77	281	50	29262	0.785	0.47
C415	ISOPHORONE	82	312	50	44210	0.872	0.71
C420	2-NITROPHENOL	139	318	50	12938	0.888	0.21
C425	2,4-DIMETHYLPHENOL	107	341	50	16450	0.953	0.26
C430	BENZOIC ACID	122	376	50	12906	1.050	0.20
C435	BIS(2-CHLOROETHOXY)METHANE	93	348	50	28513	0.972	0.46
C440	2,4-DICHLOROPHENOL	162	351	50	17815	0.980	0.28
C445	1,2,4-TRICHLOROBENZENE	180	356	50	17461	0.994	0.28
C450	NAPHTHALENE	128	360	50	57500	1.006	0.93
C455	4-CHLOROANILINE	127	378	50	28098	1.056	0.45
C460	HEXACHLOROBUTADIENE	225	390	50	7707	1.089	0.12
C465	P-CHLORO-M-CRESOL	107	455	50	17503	1.271	0.28
C470	2-METHYLNAPHTHALENE	142	449	50	48926	1.254	0.79
C510	HEXACHLOROCYCLOPENTADIENE	237	482	50	6745	0.823	0.17
C515	2,4,6-TRICHLOROPHENOL	196	497	50	11823	0.848	0.30
C520	2,4,5-TRICHLOROPHENOL	196	502	50	11765	0.857	0.30
C525	2-CHLORONAPHTHALENE	162	510	50	35442	0.870	0.91
C530	2-NITROANILINE	65	536	50	13042	0.915	0.33
C535	DIMETHYL PHTHALATE	163	575	50	43311	0.981	1.12
C540	ACENAPHTHYLENE	152	563	50	54152	0.961	1.40
C545	3-NITROANILINE	138	593	50	13248	1.012	0.34
C550	ACENAPHTHENE	153	590	50	31389	1.007	0.81

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SV STANDARD REPORT PAGE 2

FILE FS0527C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
0555	2,4-DINITROPHENOL	184	606	50	5416	1.034	0.140
0560	4-NITROPHENOL	109	637	50	3484	1.087	0.090
0565	DIBENZOFURAN	168	612	50	49693	1.044	1.286
0570	2,4-DINITROTOLUENE	165	628	50	10726	1.072	0.278
0543	2,6-DINITROTOLUENE	165	579	50	10277	0.988	0.266
0580	DIETHYL PHTHALATE	149	675	50	41461	1.152	1.073
0585	4-CHLOROPHENYL PHENYL ETHER	204	668	50	24774	1.140	0.641
0590	FLUORENE	166	657	50	37135	1.121	0.961
0595	4-NITROANILINE	138	677	50	10967	1.155	0.284
0610	4,6-DINITRO-2-METHYLPHENOL	198	682	50	7562	0.874	0.111
0615	N-NITROSODIPHENYLAMINE	169	688	50	35729	0.882	0.524
0625	4-BROMOPHENYL PHENYL ETHER	248	731	50	12350	0.937	0.181
0630	HEXACHLOROBENZENE	284	742	50	11362	0.951	0.166
0635	PENTACHLOROPHENOL	266	773	50	8490	0.991	0.124
0640	PHENANTHRENE	178	783	50	75626	1.004	1.108
0645	ANTHRACENE	178	789	50	71779	1.012	1.052
0650	DI-N-BUTYL PHTHALATE	149	899	50	117682	1.153	1.724
0655	FLUORANTHENE	202	943	50	88267	1.209	1.293
0715	PYRENE	202	971	50	93990	0.851	1.293
0720	BUTYL BENZYL PHTHALATE	149	1098	50	54479	0.962	0.749
0725	3,3'-DICHLOROBENZIDINE	252	1150	50	27646	1.008	0.380
0730	BENZO(A)ANTHRACENE	228	1139	50	89597	0.998	1.233
0745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1192	50	83698	1.045	1.151
0740	CHRYSENE	228	1144	50	68499	1.003	0.942
0760	DI-N-OCTYL PHTHALATE	149	1273	50	148093	0.964	2.052
0765	BENZO(B)FLUORANTHENE	252	1278	50	92586	0.967	1.283
0770	BENZO(K)FLUORANTHENE	252	1282	50	58332	0.970	0.808
0775	BENZO(A)PYRENE	252	1314	50	70274	0.995	0.974
0780	INDENO(1,2,3-CD)PYRENE	276	1437	50	61195	1.088	0.848
0785	DIBENZO(A,H)ANTHRACENE	278	1442	50	59955	1.092	0.831
0790	BENZO(GHI)PERYLENE	276	1463	50	64723	1.107	0.897
0620	1,2-DIPHENYL-HYDRAZINE						

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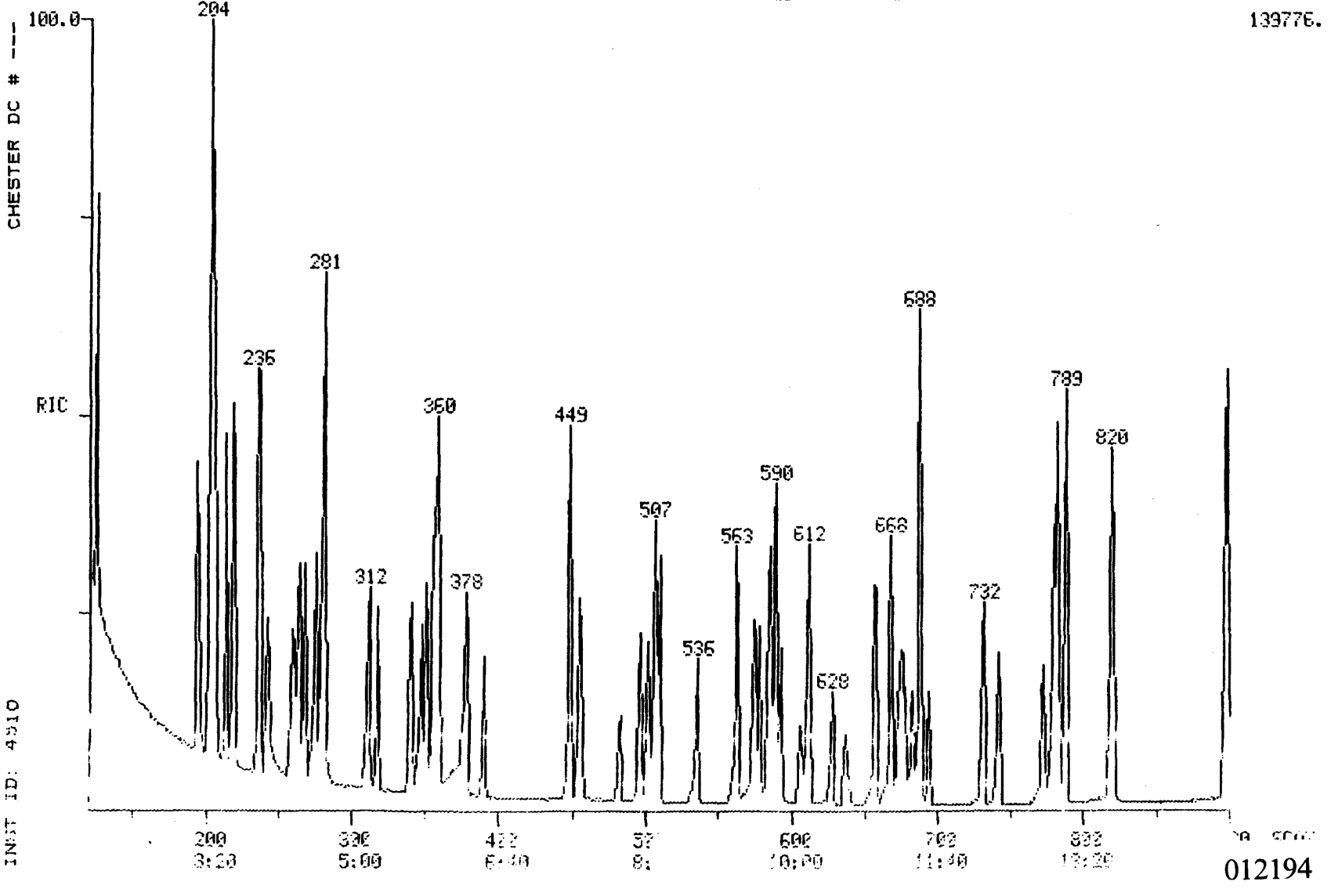
RIC
05/27/93 12:43:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0527C02 #834 SCANS 120 TO 900
CALI: FS0527C02 #3



CHESTER DC # ---

INST ID: 4910

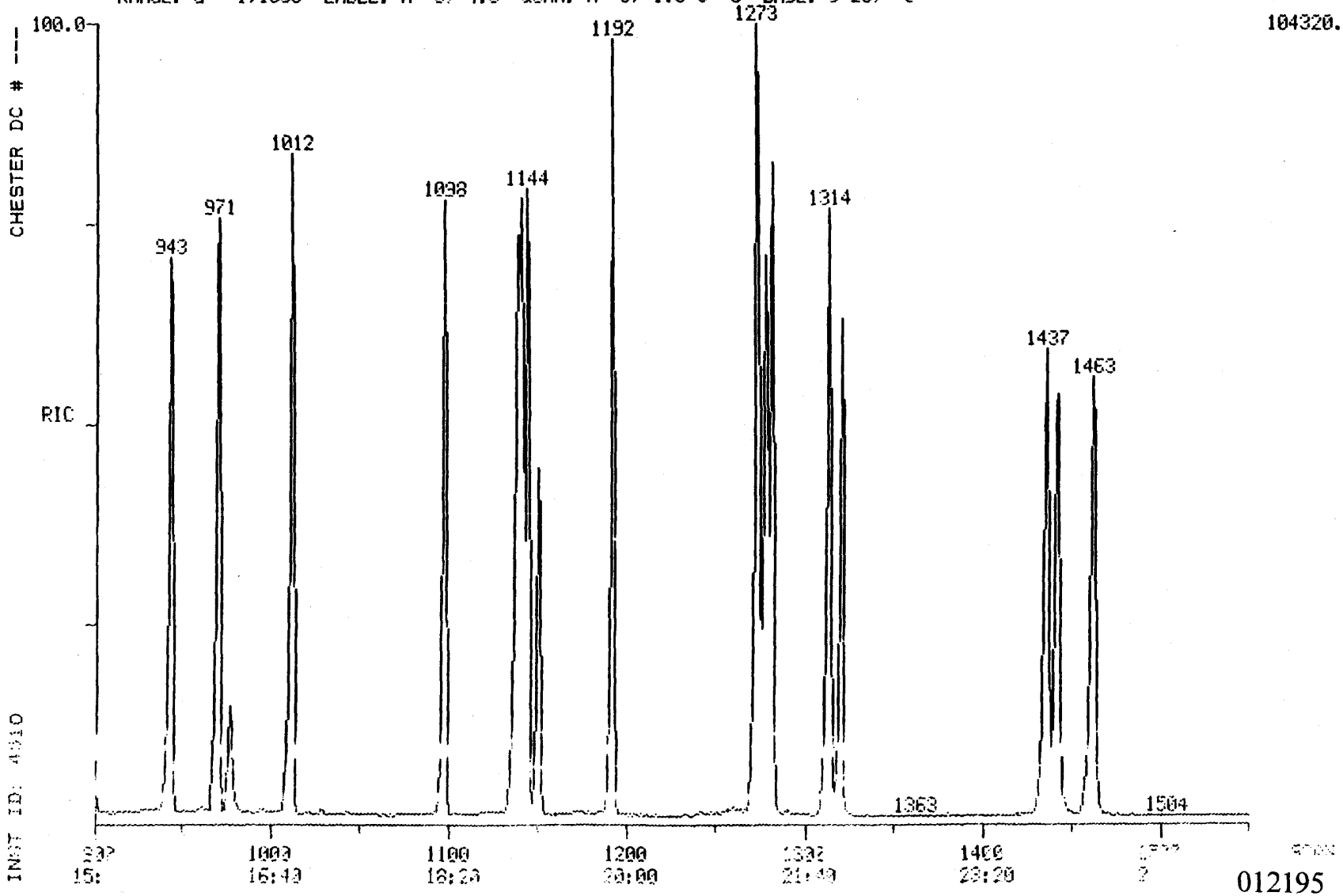
139776.

012194

-17

RIC
05/27/93 12:43:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0527C02 #834 SCANS 900 TO 1550
CALI: FS0527C02 #3



012195

Quantitation Report File: FS0527C02

012196

Data: FS0527C02.TI
05/27/93 12:43:00
Sample: SSTD050
Mds.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C850	2-FLUOROPHENOL ** SU1 **	
8	C845	PHENOL-D5 ** SU2 **	
9	C855	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C820	NITROBENZENE-D5 ** SU3 **	
11	C825	2-FLUOROBIPHENYL ** SU4 **	
12	C830	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
[illegible]	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012197

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	218	3:38	1	1.000	A BB	14336.	40.000 UG/L	0.99
2	136	358	5:58	2	1.000	A BB	49364.	40.000 UG/L	0.99
3	164	586	9:46	3	1.000	A VB	30908.	40.000 UG/L	0.99
4	188	780	13:00	4	1.000	A BB	54600.	40.000 UG/L	0.99
5	240	1141	19:01	5	1.000	A BB	58151.	40.000 UG/L	0.99
6	264	1321	22:01	6	1.000	A BB	57737.	40.000 UG/L	0.99
7	112	125	2:05	1	0.573	A BB	31635.	50.000 UG/L	1.24
8	49	205	3:25	1	0.940	A BB	39310.	50.000 UG/L	1.24
9	330	694	11:34	3	1.184	A BB	6091.	50.000 UG/L	1.24
10	82	279	4:39	2	0.779	A BB	24517.	50.000 UG/L	1.24
11	172	507	8:27	3	0.865	A BB	40671.	50.000 UG/L	1.24
12	244	1012	16:52	5	0.887	A VB	88445.	50.000 UG/L	1.24
13	94	206	3:26	1	0.945	A BB	35683.	50.000 UG/L	1.24
14	93	204	3:24	1	0.936	A VB	27879.	50.000 UG/L	1.24
15	108	204	3:24	1	0.936	A BB	26266.	50.000 UG/L	1.24
16	146	214	3:34	1	0.982	A BB	26142.	50.000 UG/L	1.24
17	146	219	3:39	1	1.005	A BB	27078.	50.000 UG/L	1.24
18	108	242	4:02	1	1.110	A BB	16408.	50.000 UG/L	1.24
19	146	237	3:57	1	1.087	A BB	24700.	50.000 UG/L	1.24
20	108	264	4:24	1	1.211	A BB	24945.	50.000 UG/L	1.24
21	45	259	4:19	1	1.188	A BB	36617.	50.000 UG/L	1.24
22	108	281	4:41	1	1.289	A BB	25466.	50.000 UG/L	1.24
23	70	275	4:35	1	1.261	M XX	17908.	50.000 UG/L	1.24
24	117	268	4:28	1	1.229	A BB	8843.	50.000 UG/L	1.24
25	77	281	4:41	2	0.785	A BB	29262.	50.000 UG/L	1.24
26	82	312	5:12	2	0.872	A BB	44210.	50.000 UG/L	1.24
27	139	318	5:18	2	0.888	A BB	12938.	50.000 UG/L	1.24
28	107	341	5:41	2	0.953	A BB	16450.	50.000 UG/L	1.24
29	172	376	6:16	2	1.050	A BB	12906.	50.000 UG/L	1.24
30	93	348	5:48	2	0.972	A BB	28513.	50.000 UG/L	1.24
31	162	351	5:51	2	0.980	A BB	17815.	50.000 UG/L	1.24
32	180	356	5:56	2	0.994	A BB	17461.	50.000 UG/L	1.24
33	108	360	6:00	2	1.006	A BB	57500.	50.000 UG/L	1.24
34	107	378	6:18	2	1.056	A BB	28098.	50.000 UG/L	1.24
35	225	390	6:30	2	1.089	A BB	7707.	50.000 UG/L	1.24
36	107	455	7:35	2	1.271	A BB	17503.	50.000 UG/L	1.24
37	142	449	7:29	2	1.254	A BV	48926.	50.000 UG/L	1.24
38	247	482	8:02	3	0.823	A BB	6745.	50.000 UG/L	1.24
39	196	497	8:17	3	0.848	A BV	11823.	50.000 UG/L	1.24
40	196	502	8:22	3	0.857	A VB	11765.	50.000 UG/L	1.24
41	162	510	8:30	3	0.870	A BB	35442.	50.000 UG/L	1.24
42	65	536	8:56	3	0.915	A BB	13042.	50.000 UG/L	1.24
43	163	575	9:35	3	0.981	A BB	43311.	50.000 UG/L	1.24
44	152	563	9:23	3	0.961	A BB	54152.	50.000 UG/L	1.24
45	138	593	9:53	3	1.012	A BB	13248.	50.000 UG/L	1.24
46	153	590	9:50	3	1.007	A BB	31389.	50.000 UG/L	1.24
47	184	606	10:06	3	1.034	A BB	5416.	50.000 UG/L	1.24
48	109	637	10:37	3	1.087	A BB	3484.	50.000 UG/L	1.24
49	168	612	10:12	3	1.044	A BB	49693.	50.000 UG/L	1.24
50	165	628	10:28	3	1.072	A BB	10726.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	7:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
	13:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	2:05	1.00	0.573	1.00	50.00	50.00	1.765	1.765	1.00
8	3:25	1.00	0.940	1.00	50.00	50.00	2.194	2.194	1.00
9	11:34	1.00	1.184	1.00	50.00	50.00	0.158	0.158	1.00
10	4:39	1.00	0.779	1.00	50.00	50.00	0.397	0.397	1.00
11	8:27	1.00	0.865	1.00	50.00	50.00	1.053	1.053	1.00
12	16:52	1.00	0.887	1.00	50.00	50.00	1.217	1.217	1.00
13	3:26	1.00	0.945	1.00	50.00	50.00	1.991	1.991	1.00
14	3:24	1.00	0.936	1.00	50.00	50.00	1.556	1.556	1.00
15	3:24	1.00	0.936	1.00	50.00	50.00	1.466	1.466	1.00
16	3:34	1.00	0.982	1.00	50.00	50.00	1.459	1.459	1.00
17	3:39	1.00	1.005	1.00	50.00	50.00	1.511	1.511	1.00
18	4:02	1.00	1.110	1.00	50.00	50.00	0.916	0.916	1.00
19	3:57	1.00	1.087	1.00	50.00	50.00	1.378	1.378	1.00
20	4:24	1.00	1.211	1.00	50.00	50.00	1.392	1.392	1.00
21	4:19	1.00	1.188	1.00	50.00	50.00	2.043	2.043	1.00
22	4:41	1.00	1.289	1.00	50.00	50.00	1.421	1.421	1.00
23	4:35	1.00	1.261	1.00	50.00	50.00	0.999	0.999	1.00
24	4:28	1.00	1.229	1.00	50.00	50.00	0.493	0.493	1.00
25	4:41	1.00	0.785	1.00	50.00	50.00	0.474	0.474	1.00
26	5:12	1.00	0.872	1.00	50.00	50.00	0.716	0.716	1.00
27	5:18	1.00	0.888	1.00	50.00	50.00	0.210	0.210	1.00
28	5:41	1.00	0.953	1.00	50.00	50.00	0.267	0.267	1.00
	6:16	1.00	1.050	1.00	50.00	50.00	0.209	0.209	1.00
30	5:48	1.00	0.972	1.00	50.00	50.00	0.462	0.462	1.00
31	5:51	1.00	0.980	1.00	50.00	50.00	0.289	0.289	1.00
32	5:56	1.00	0.994	1.00	50.00	50.00	0.283	0.283	1.00
33	6:00	1.00	1.006	1.00	50.00	50.00	0.932	0.932	1.00
34	6:18	1.00	1.056	1.00	50.00	50.00	0.455	0.455	1.00
35	6:30	1.00	1.089	1.00	50.00	50.00	0.125	0.125	1.00
36	7:35	1.00	1.271	1.00	50.00	50.00	0.284	0.284	1.00
37	7:29	1.00	1.254	1.00	50.00	50.00	0.793	0.793	1.00
38	8:02	1.00	0.823	1.00	50.00	50.00	0.175	0.175	1.00
39	8:17	1.00	0.848	1.00	50.00	50.00	0.306	0.306	1.00
40	8:22	1.00	0.857	1.00	50.00	50.00	0.305	0.305	1.00
41	8:30	1.00	0.870	1.00	50.00	50.00	0.917	0.917	1.00
42	8:56	1.00	0.915	1.00	50.00	50.00	0.338	0.338	1.00
43	9:35	1.00	0.981	1.00	50.00	50.00	1.121	1.121	1.00
44	9:23	1.00	0.961	1.00	50.00	50.00	1.402	1.402	1.00
45	9:53	1.00	1.012	1.00	50.00	50.00	0.343	0.343	1.00
46	9:50	1.00	1.007	1.00	50.00	50.00	0.812	0.812	1.00
47	10:06	1.00	1.034	1.00	50.00	50.00	0.140	0.140	1.00
48	10:37	1.00	1.087	1.00	50.00	50.00	0.090	0.090	1.00
49	10:12	1.00	1.044	1.00	50.00	50.00	1.286	1.286	1.00
50	10:28	1.00	1.072	1.00	50.00	50.00	0.278	0.278	1.00

012198

Quantitation Report File: FS0527C02

012199

Data: FS0527C02.TI
05/27/93 12:43:00
Sample: SSTD050
Lids.: ---
Formula: 03/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. Fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	579	9:39	3	0.988	A BV	10277.	50.000 UG/L	1.24
52	149	675	11:15	3	1.152	A BB	41461.	50.000 UG/L	1.24
53	204	668	11:08	3	1.140	A BB	24774.	50.000 UG/L	1.24
54	166	657	10:57	3	1.121	A BB	37135.	50.000 UG/L	1.24
55	138	677	11:17	3	1.155	A BB	10967.	50.000 UG/L	1.24
56	198	682	11:22	4	0.874	A BB	7562.	50.000 UG/L	1.24
57	169	688	11:28	4	0.882	A BB	35729.	50.000 UG/L	1.24
58	248	731	12:11	4	0.937	A BB	12350.	50.000 UG/L	1.24
59	284	742	12:22	4	0.951	A BB	11362.	50.000 UG/L	1.24
60	266	773	12:53	4	0.991	A BB	8490.	50.000 UG/L	1.24
61	178	783	13:03	4	1.004	A BV	75626.	50.000 UG/L	1.24

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
62	178	789	13:09	4	1.012	A VB	71779.	50.000 UG/L	1.24
63	149	899	14:59	4	1.153	A VB	117682.	50.000 UG/L	1.24
64	202	943	15:43	4	1.209	A VB	88267.	50.000 UG/L	1.24
	202	971	16:11	5	0.851	A BB	93990.	50.000 UG/L	1.24
66	149	1098	18:18	5	0.962	A VB	54479.	50.000 UG/L	1.24
67	252	1150	19:10	5	1.008	A BB	27646.	50.000 UG/L	1.24
68	228	1139	18:59	5	0.998	A BV	89597.	50.000 UG/L	1.24
69	149	1192	19:52	5	1.045	A VB	83698.	50.000 UG/L	1.24
70	228	1144	19:04	5	1.003	A VB	68498.	50.000 UG/L	1.24
71	149	1273	21:13	6	0.964	A VB	148093.	50.000 UG/L	1.24
72	252	1278	21:18	6	0.967	A BV	92586.	50.000 UG/L	1.24
73	252	1282	21:22	6	0.970	A VB	58332.	50.000 UG/L	1.24
74	252	1314	21:54	6	0.995	A BB	70274.	50.000 UG/L	1.24
75	276	1437	23:57	6	1.088	A BV	61195.	50.000 UG/L	1.24
76	278	1442	24:02	6	1.092	A BB	59955.	50.000 UG/L	1.24
77	276	1463	24:23	6	1.107	A BB	64723.	50.000 UG/L	1.24
78	74	60	1:00	1	0.275	A BB	24442.	50.000 UG/L	1.24
79	184	977	16:17	5	0.856	A BB	24052.	50.000 UG/L	1.24
80	132	202	3:22	1	0.927	A BB	37960.	50.000 UG/L	1.24
81	152	235	3:55	1	1.078	M XX	15161.	50.000 UG/L	1.24
82	167	820	13:40	4	1.051	A BB	77722.	50.000 UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:39	1.00	0.988	1.00	50.00	50.00	0.266	0.266	1.00
52	11:15	1.00	1.152	1.00	50.00	50.00	1.073	1.073	1.00
53	11:08	1.00	1.140	1.00	50.00	50.00	0.641	0.641	1.00
54	10:57	1.00	1.121	1.00	50.00	50.00	0.961	0.961	1.00
55	11:17	1.00	1.155	1.00	50.00	50.00	0.284	0.284	1.00
	11:22	1.00	0.874	1.00	50.00	50.00	0.111	0.111	1.00
	11:28	1.00	0.882	1.00	50.00	50.00	0.524	0.524	1.00
58	12:11	1.00	0.937	1.00	50.00	50.00	0.181	0.181	1.00
59	12:22	1.00	0.951	1.00	50.00	50.00	0.166	0.166	1.00
60	12:53	1.00	0.991	1.00	50.00	50.00	0.124	0.124	1.00
61	13:03	1.00	1.004	1.00	50.00	50.00	1.108	1.108	1.00
62	13:09	1.00	1.012	1.00	50.00	50.00	1.052	1.052	1.00
63	14:59	1.00	1.153	1.00	50.00	50.00	1.724	1.724	1.00
64	15:43	1.00	1.209	1.00	50.00	50.00	1.293	1.293	1.00
65	16:11	1.00	0.851	1.00	50.00	50.00	1.293	1.293	1.00
66	18:18	1.00	0.962	1.00	50.00	50.00	0.749	0.749	1.00
67	19:10	1.00	1.008	1.00	50.00	50.00	0.380	0.380	1.00
68	18:59	1.00	0.998	1.00	50.00	50.00	1.233	1.233	1.00
69	19:52	1.00	1.045	1.00	50.00	50.00	1.151	1.151	1.00
70	19:04	1.00	1.003	1.00	50.00	50.00	0.942	0.942	1.00
71	21:13	1.00	0.964	1.00	50.00	50.00	2.052	2.052	1.00
72	21:18	1.00	0.967	1.00	50.00	50.00	1.283	1.283	1.00
73	21:22	1.00	0.970	1.00	50.00	50.00	0.808	0.808	1.00
74	21:54	1.00	0.995	1.00	50.00	50.00	0.974	0.974	1.00
75	23:57	1.00	1.088	1.00	50.00	50.00	0.848	0.848	1.00
76	24:02	1.00	1.092	1.00	50.00	50.00	0.831	0.831	1.00
77	24:23	1.00	1.107	1.00	50.00	50.00	0.897	0.897	1.00
78	1:00	1.00	0.275	1.00	50.00	50.00	1.364	1.364	1.00
79	16:17	1.00	0.856	1.00	50.00	50.00	0.331	0.331	1.00
80	3:22	1.00	0.927	1.00	50.00	50.00	2.118	2.118	1.00
81	3:55	1.00	1.078	1.00	50.00	50.00	0.846	0.846	1.00
	13:40	1.00	1.051	1.00	50.00	50.00	1.139	1.139	1.00

012200

-14

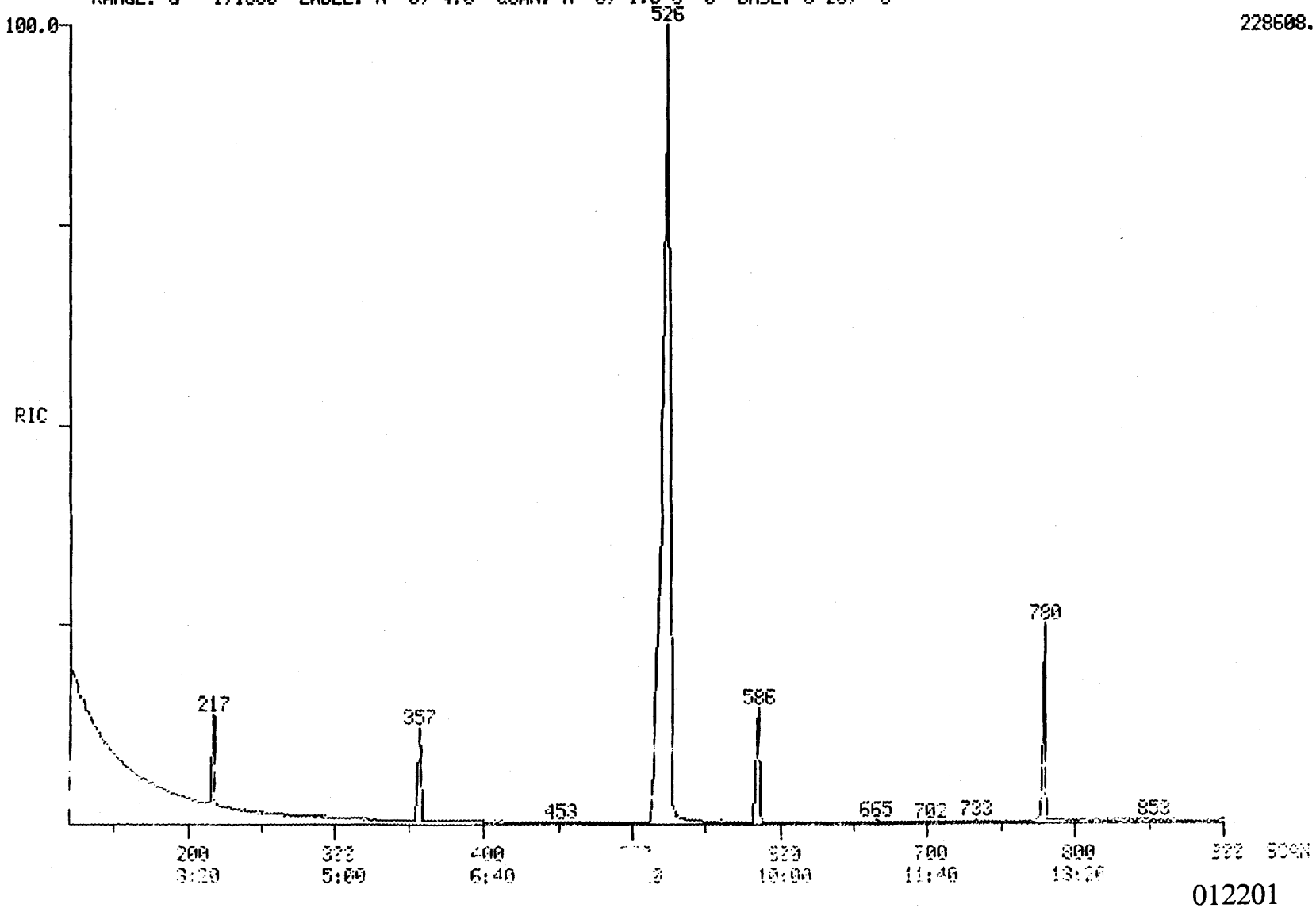
RIC
05/27/93 15:10:00
SAMPLE: DAT SSTD500
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0527C03 #1
CALI: FS0527C03 #3

SCANS 120 TO 900

CHESTER DC # ---

INST ID: 4510



012201

012201

-14

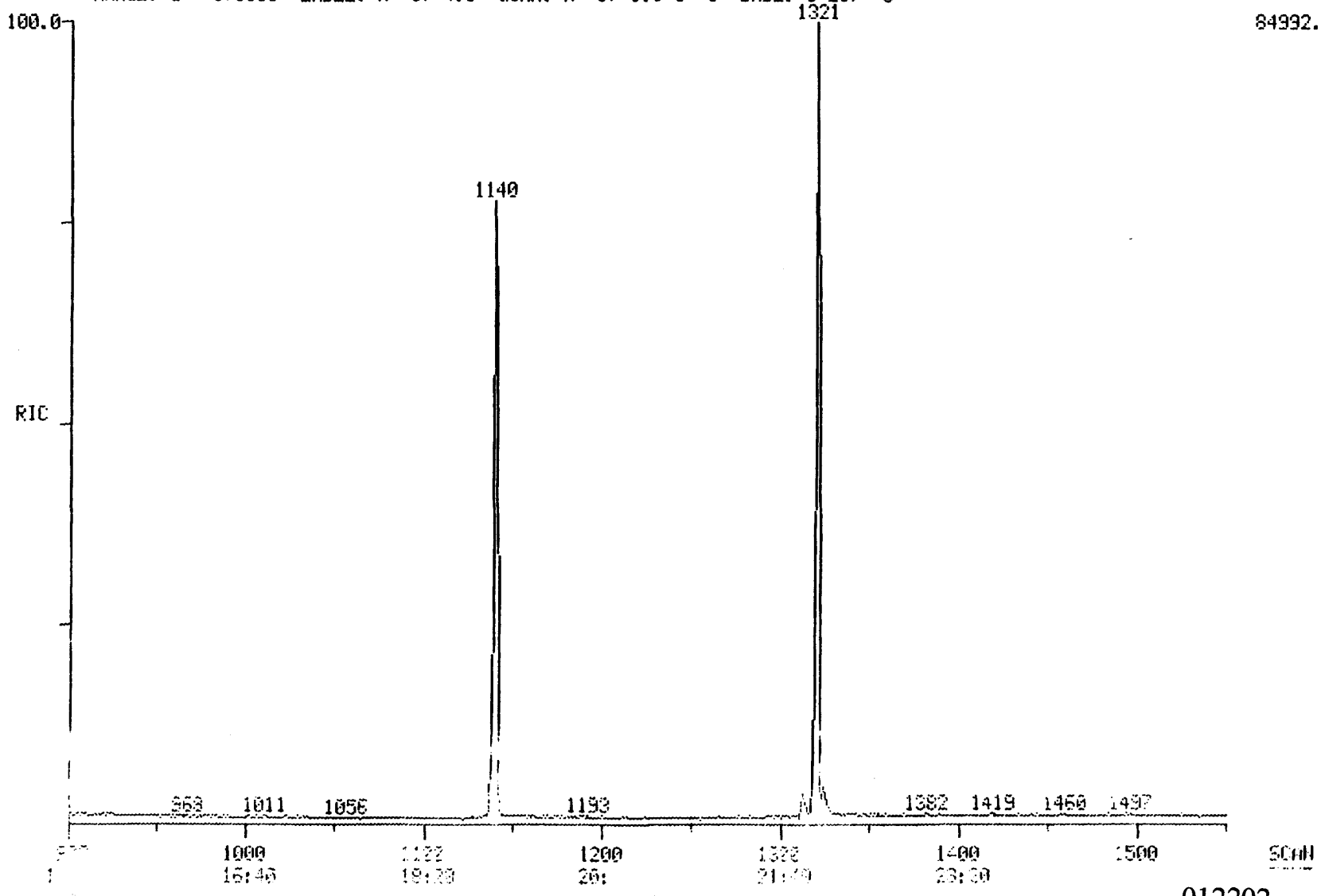
RIC
05/27/93 15:10:00
SAMPLE: DAT SSTD500
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0527C03 #1
CALI: FS0527C03 #3

SCANS 900 TO 1550

CHESTER DC # ---

INST ID: 4510



012202

012202

Quantitation Report File: F50527C03

012203

Data: F50527C03.TI
05/27/93 15:10:00
Sample: DAT SSTD500
Ids.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

AMOUNT: AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. Fac. from Library Entry

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 ** IS1 **
2	CI40 NAPHTHALENE-D8 ** IS2 **
3	CI50 ACENAPHTHENE-D10 ** IS3 **
4	CI60 PHENANTHRENE-D10 ** IS4 **
5	CI70 CHRYSENE-D12 ** IS5 **
6	CI75 PERYLENE-D12 ** IS6 **
7	2,4-DIAMINOTOLUENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	217	3:37	1	1.000	A BB	9005.	40.000 UG/L	5.41
2	136	357	5:57	2	1.000	A BB	25042.	40.000 UG/L	5.41
3	164	586	9:46	3	1.000	A BB	21579.	40.000 UG/L	5.41
4	188	780	13:00	4	1.000	M XX	54505.	40.000 UG/L	5.41
5	240	1140	19:00	5	1.000	A BB	60852.	40.000 UG/L	5.41
6	264	1321	22:01	6	1.000	A BB	70313.	40.000 UG/L	5.41
7	121	526	8:46	3	0.898	A BB	295688.	500.000 UG/L	67.57

	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
	3:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:58	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	13:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	8:46	1.00	0.898	1.00	500.00	500.00	1.096	1.096	1.00

012204

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	04/25/93	Sens Time:	13:33:00
Lab ID:	FS0425C01	Cali Date:	04/24/93	Analyst:	JZ

Data release authorized by:

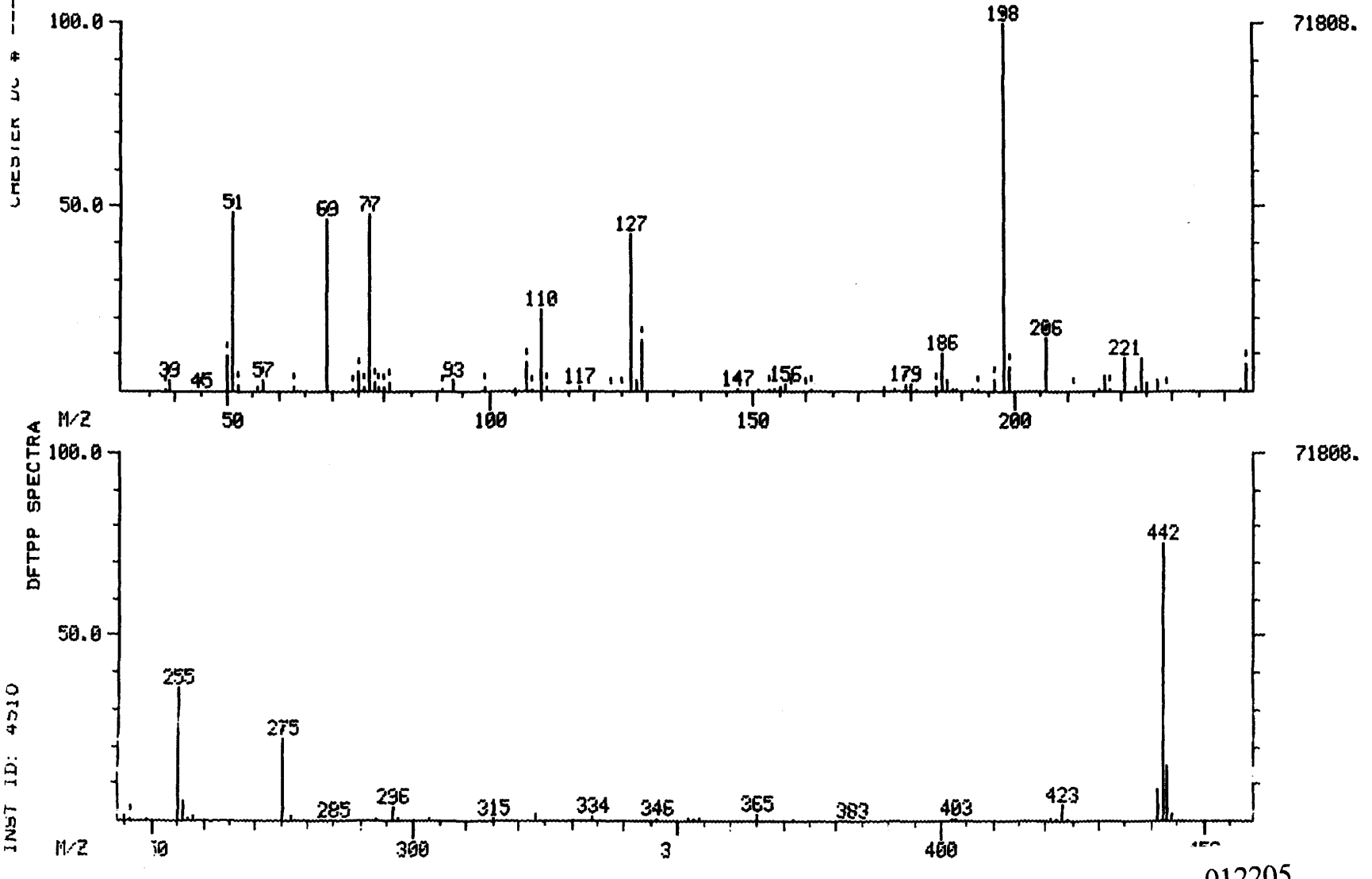
M/E	Ion Abundance Criteria	Spec # 257		
51	30 to 60% of mass 198	48.31		
68	less than 2% of mass 69	0.00	(0.00)	1
69	mass 69 relative abundance	46.97		
70	less than 2% of mass 69	0.19	(0.42)	1
127	40 TO 60% of mass 198	42.56		
197	less than 1% of mass 198	0.14		
198	base peak, 100% relative abundance	100.00		
199	5 TO 9% of mass 198	6.37		
275	10 TO 30% of mass 198	22.35		
365	greater than 1% of mass 198	1.74		
441	less than mass 443	8.55		
442	greater than 40% of mass 198	75.31		
443	17 TO 23% of mass 442	15.06	(20.00)	2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

MASS SPECTRUM
04/25/93 13:33:00 + 4:18
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:#158 DEG. C
#257 TO #259 SUMMED - #212

DATA: FS0425C01 #258
CALI: FS0425C01 #3

BASE M/Z: 198
RIC: 468480.



012205

INST ID: 4510 CHESTER DC # ---

DFTPP MASS LISTING

Mass List Data: FS0425C01 # 258 Base m/z: 198

04/25/93 13:33:00 + 4:18 Cali: FS0425C01 # 3 RIC: 468480.

Sample: DFTPP

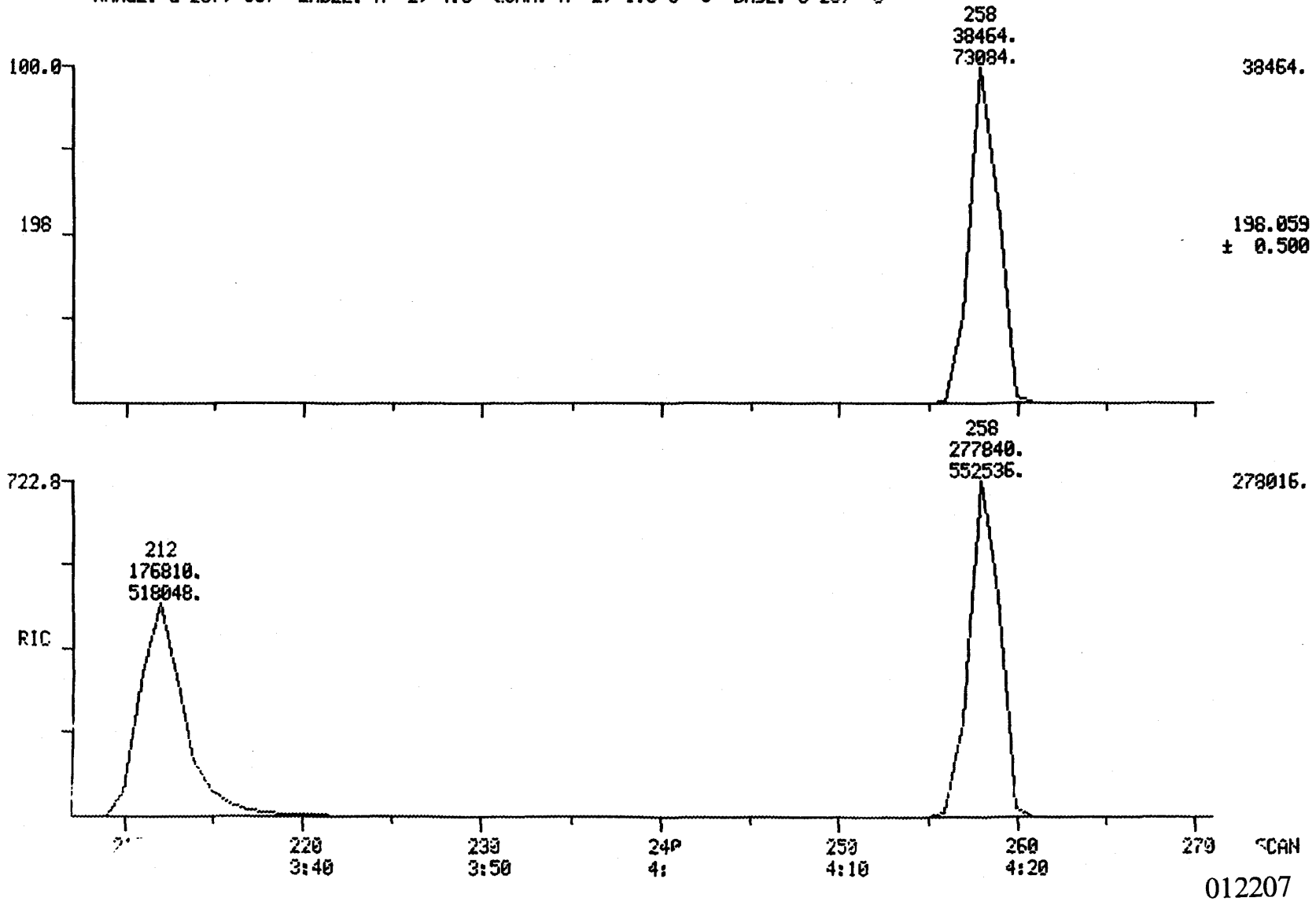
Comnds.: ---

257 to #259 summed - #212

38		0.00	0.	Minima	Min	Inten:	194.
445				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
38?	S	0.30	219.	198	S	100.00	71808.
39?	S	2.82	2026.	199	S	6.37	4576.
50	S	9.34	6704.	206	S	14.57	10464.
51	S	48.31	34688.	216		0.35	252.
52	S	1.68	1204.	217		4.05	2908.
56		1.41	1012.	218	S	0.38	276.
57	S	3.18	2284.	221		8.69	6240.
63	S	1.20	859.	223		1.06	759.
69	S	46.97	33728.	224		8.69	6240.
74	S	0.60	434.	225		2.26	1626.
75	S	5.27	3784.	227		2.92	2100.
76	S	1.41	1015.	229	S	0.29	208.
77	S	47.77	34304.	243		0.52	374.
78	S	2.45	1762.	244	S	7.34	5272.
79	S	0.93	669.	245		0.98	704.
80	S	1.45	1038.	246	S	0.82	591.
81	S	2.35	1688.	249		0.32	233.
91	S	0.45	325.	255		35.83	25728.
93		2.99	2148.	256		5.25	3772.
99	S	1.21	871.	257		0.41	298.
105		0.79	569.	258		1.42	1022.
107	S	7.79	5592.	275	S	22.35	16048.
108	S	0.52	375.	277		1.38	991.
110	S	22.08	15856.	293		0.38	273.
111	S	1.45	1044.	296		3.46	2484.
117	S	1.38	989.	297		0.56	403.
127		42.56	30560.	303		0.49	349.
128		3.16	2268.	315		0.39	278.
129	S	13.73	9856.	323		1.62	1164.
147	S	0.60	434.	324		0.30	213.
149		0.28	204.	334		1.00	715.
151		0.34	244.	335		0.27	194.
153	S	0.41	292.	346		0.35	249.
154		0.38	272.	352		0.41	296.
155		0.92	659.	353		0.38	274.
156		1.56	1120.	354		0.64	463.
161	S	0.64	462.	365		1.74	1248.
175		1.20	859.	372		0.82	587.
177	S	0.37	264.	373		0.30	214.
179	S	1.91	1368.	383		0.27	195.
180		1.65	1186.	402		0.36	261.
181		0.86	621.	403		0.61	438.
185	S	0.91	650.	421		0.37	265.
186		10.10	7256.	422		0.51	364.
187		2.89	2072.	423		3.96	2844.
188		0.38	270.	424		0.85	608.
189		0.41	294.	441		8.55	6136.
192		0.65	469.	442		75.31	54080.
193	S	0.54	390.	443		15.06	10816.
196	S	2.94	2108.	444		1.52	1094.

012206

RIC+MASS CHROMATOGRAM DATA: FS0425C01 #257 SCANS 207 TO 271
04/25/93 13:33:00 CALI: FS0425C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 207, 307 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



012207

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --- CONTRACT LAB: KEYSTONE

CONTRACT NO. --- INSTRUMENT IDENTIFIER: 4510

CALIBRATION DATE: 04/24/93

STANDARD FILE: FS0425C02

DATE: 04/25/93 TIME: 13:51

MAXIMUM % D FOR CCC IS 20

012208

	COMPOUND	MEAN RF(I)	RF(O)	% D
C315	PHENOL	1.643	1.600	-2.599
C325	BIS(2-CHLOROETHYL)ETHE	1.663	1.709	2.776
C330	2-CHLOROPHENOL	1.324	1.365	3.068
C335	1,3-DICHLOROBENZENE	1.474	1.427	-3.161
C340	1,4-DICHLOROBENZENE	1.543	1.481	-3.999
C345	BENZYL ALCOHOL	0.701	0.784	11.827
C350	1,2-DICHLOROBENZENE	1.450	1.406	-3.045
C355	2-METHYLPHENOL	1.217	1.229	0.969
C357	2,2'-OXYBIS(1-CHLOROPR	3.297	3.564	8.095
C365	4-METHYLPHENOL	1.338	1.366	2.086
C370	N-NITROSODIPROPYLAMINE	1.363	1.377	0.964
C375	HEXACHLOROETHANE	0.624	0.640	2.462
C410	NITROBENZENE	0.518	0.484	-6.494
C415	ISOPHORONE	0.850	0.811	-4.569
C420	2-NITROPHENOL	0.209	0.193	-7.857
C425	2,4-DIMETHYLPHENOL	0.287	0.274	-4.638
C430	BENZOIC ACID	0.137	0.167	22.088
C435	BIS(2-CHLOROETHOXY)MET	0.558	0.552	-1.131
C440	2,4-DICHLOROPHENOL	0.301	0.279	-7.397
C445	1,2,4-TRICHLOROBENZENE	0.344	0.315	-8.452
[illegible]0	NAPHTHALENE	0.999	0.897	-10.128
[illegible]5	4-CHLOROANILINE	0.456	0.407	-10.810
C460	HEXACHLOROBUTADIENE	0.171	0.163	-4.772
C465	P-CHLORO-M-CRESOL	0.288	0.285	-1.199
C470	2-METHYLNAPHTHALENE	0.829	0.787	-5.047
C510	HEXACHLOROCYCLOPENTADI	0.310	0.301	-2.872
C515	2,4,6-TRICHLOROPHENOL	0.385	0.341	-11.320
C520	2,4,5-TRICHLOROPHENOL	0.380	0.363	-4.331
C525	2-CHLORONAPHTHALENE	1.183	1.092	-7.738
C530	2-NITROANILINE	0.390	0.362	-7.262
C535	DIMETHYL PHTHALATE	1.353	1.316	-2.715
C540	ACENAPHTHYLENE	1.650	1.515	-8.172
C545	3-NITROANILINE	0.332	0.311	-6.334
C550	ACENAPHTHENE	0.966	0.849	-12.091
C555	2,4-DINITROPHENOL	0.123	0.129	4.802
C560	4-NITROPHENOL	0.079	0.068	-14.799
C565	DIBENZOFURAN	1.559	1.484	-4.819
C570	2,4-DINITROTOLUENE	0.356	0.331	-7.230
C573	2,6-DINITROTOLUENE	0.303	0.291	-4.027
C580	DIETHYL PHTHALATE	1.322	1.280	-3.172
C585	4-CHLOROPHENYL PHENYL	0.751	0.740	-1.471
C590	FLUORENE	1.231	1.073	-12.875
C595	4-NITROANILINE	0.291	0.264	-9.391
C610	4,6-DINITRO-2-METHYLPH	0.126	0.127	0.628
C615	N-NITROSODIPHENYLAMINE	0.666	0.610	-8.524
C[illegible]5	4-BROMOPHENYL PHENYL E	0.249	0.218	-12.366
[illegible]0	HEXACHLOROBENZENE	0.217	0.216	-0.762
C635	PENTACHLOROPHENOL	0.095	0.083	-12.253
C640	PHENANTHRENE	1.166	0.987	-15.307
C645	ANTHRACENE	1.014	0.903	-10.979
C650	DI-N-BUTYL PHTHALATE	1.433	1.361	-5.053
C655	FLUORANTHENE	1.017	0.884	-13.070

C715	PYRENE	1.567	1.382	-11.789
C720	BUTYL BENZYL PHTHALATE	0.839	0.736	-12.315
C725	3,3'-DICHLOROBENZIDINE	0.410	0.323	-21.233
C730	BENZO(A)ANTHRACENE	1.254	1.099	-12.352
C745	BIS(2-ETHYLHEXYL)PHTHA	1.237	1.094	-11.533
[illegible]0	CHRYSENE	1.071	0.957	-10.677
[illegible]0	DI-N-OCTYL PHTHALATE	2.294	2.138	-6.782
C765	BENZO(B)FLUORANTHENE	1.357	1.339	-1.340
C770	BENZO(K)FLUORANTHENE	1.411	1.268	-10.176
C775	BENZO(A)PYRENE	1.112	1.013	-8.927
C780	INDENO(1,2,3-CD)PYRENE	0.803	0.731	-8.935
C785	DIBENZO(A,H)ANTHRACENE	0.810	0.699	-13.779
C790	BENZO(GHI)PERYLENE	0.868	0.797	-8.173
C310	N-NITROSODIMETHYLAMINE	0.823	0.859	4.407
C620	1,2-DIPHENYL-HYDRAZINE	1.082	1.004	-7.153
CS70	2-CHLOROPHENOL-D4 ** S	1.727	1.907	10.429
CS75	1,2-DICHLOROBENZENE-D4	0.857	0.887	3.547
C647	CARBAZOLE	0.962	0.875	-9.008
CS50	2-FLUOROPHENOL ** SU1	1.196	1.225	2.442
CS45	PHENOL-D5 ** SU2 **	1.693	1.871	10.507
CS55	2,4,6-TRIBROMOPHENOL	0.139	0.180	29.128
CS20	NITROBENZENE-D5 ** SU3	0.388	0.403	3.826
CS25	2-FLUOROBIPHENYL ** SU	1.298	1.333	2.687
CS30	TERPHENYL-D14 ** SU6	1.376	1.452	5.520

BENZENETHIOL
METHYL CHRYSENE
QUINOLINE
C720 1-METHYLNAPHTHALENE
7,12-DIMETHYLBENZ(A)ANTHRACE
DIBENZ(A,H)ACRIDINE
3+4-METHYLPHENOL
ENE
A,50 PYRIDINE
A953 2,6-DICHLOROPHENOL
A987 2,5-DICHLOROPHENOL
A988 3,4-DICHLOROPHENOL
A989 2,3-DICHLOROPHENOL
A990 3,5-DICHLOROPHENOL
A991 1,3,5-TRICHLOROBENZENE
A992 1,2,3-TRICHLOROBENZENE

012209

SV STANDARD REPORT

012210

SAMPLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0425C02

CLIENT CHESTER ANALYST JZ

DATE INJECTED 04/25/93 13:51:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	212	40	11110	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	352	40	45080	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	579	40	26876	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	773	40	44067	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1134	40	29241	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1313	40	22399	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	121	50	17012	0.571	1.225
CS45	PHENOL-D5 ** SU2 **	99	202	50	25987	0.953	1.871
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	688	50	6055	1.188	0.180
CS20	NITROBENZENE-D5 ** SU3 **	82	274	50	22709	0.778	0.403
CS25	2-FLUOROBIPHENYL ** SU4 **	172	501	50	44767	0.865	1.333
CS30	TERPHENYL-D14 ** SU6 **	244	1005	50	53073	0.886	1.452
C315	PHENOL	94	203	50	22218	0.958	1.600
C325	BIS(2-CHLOROETHYL)ETHER	93	198	50	23740	0.934	1.709
C330	2-CHLOROPHENOL	128	199	50	18957	0.939	1.365
C335	1,3-DICHLOROBENZENE	146	208	50	19818	0.981	1.427
C340	1,4-DICHLOROBENZENE	146	214	50	20573	1.009	1.481
C345	BENZYL ALCOHOL	108	237	50	10884	1.118	0.784
C350	1,2-DICHLOROBENZENE	146	231	50	19519	1.090	1.406
C355	2-METHYLPHENOL	108	261	50	17066	1.231	1.229
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	254	50	49501	1.198	3.564
C365	4-METHYLPHENOL	108	278	50	18965	1.311	1.366
C370	N-NITROSODIPROPYLAMINE	70	270	50	19118	1.274	1.377
C375	HEXACHLOROETHANE	117	262	50	8886	1.236	0.640
C410	NITROBENZENE	77	276	50	27274	0.784	0.484
C415	ISOPHORONE	82	306	50	45711	0.869	0.811
C420	2-NITROPHENOL	139	313	50	10870	0.889	0.193
C425	2,4-DIMETHYLPHENOL	107	337	50	15426	0.957	0.274
C430	BENZOIC ACID	122	368	50	9416	1.045	0.167
C435	BIS(2-CHLOROETHOXY)METHANE	93	343	50	31104	0.974	0.552
C440	2,4-DICHLOROPHENOL	162	347	50	15696	0.986	0.279
C445	1,2,4-TRICHLOROBENZENE	180	350	50	17757	0.994	0.315
C450	NAPHTHALENE	128	354	50	50568	1.006	0.897
C455	4-CHLOROANILINE	127	374	50	22907	1.063	0.407
C460	HEXACHLOROBUTADIENE	225	384	50	9173	1.091	0.163
C465	P-CHLORO-M-CRESOL	107	453	50	16048	1.287	0.285
C470	2-METHYLNAPHTHALENE	142	443	50	44336	1.259	0.787
C510	HEXACHLOROCYCLOPENTADIENE	237	476	50	10122	0.822	0.301
C515	2,4,6-TRICHLOROPHENOL	196	492	50	11455	0.850	0.341
C520	2,4,5-TRICHLOROPHENOL	196	498	50	12206	0.860	0.363
C525	2-CHLORONAPHTHALENE	162	504	50	36681	0.870	1.092
C530	2-NITROANILINE	65	532	50	12150	0.919	0.362
C535	DIMETHYL PHTHALATE	163	570	50	44208	0.984	1.316
C540	ACENAPHTHYLENE	152	557	50	50911	0.962	1.515
C545	3-NITROANILINE	138	589	50	10449	1.017	0.311
C550	ACENAPHTHENE	153	583	50	28535	1.007	0.849

012211

SV STANDARD REPORT PAGE 2

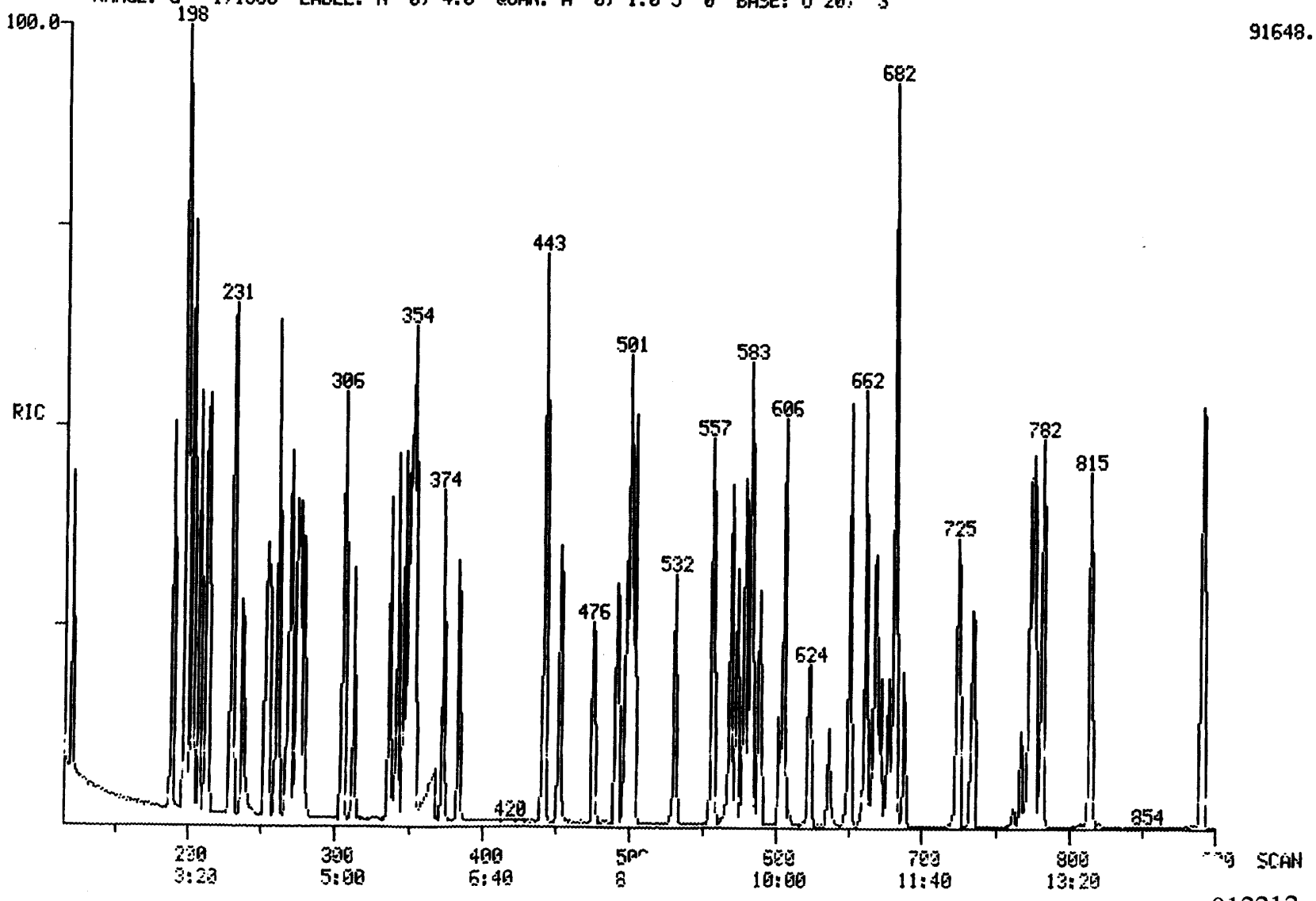
DATAFILE FS0425C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	
C555	2,4-DINITROPHENOL	184	602	50	4326	1.040	0.129
C560	4-NITROPHENOL	109	636	50	2272	1.098	0.068
C565	DIBENZOFURAN	168	606	50	49860	1.047	1.484
C570	2,4-DINITROTOLUENE	165	623	50	11109	1.076	0.331
C543	2,6-DINITROTOLUENE	165	574	50	9769	0.991	0.291
C580	DIETHYL PHTHALATE	149	668	50	43018	1.154	1.280
C585	4-CHLOROPHENYL PHENYL ETHER	204	662	50	24871	1.143	0.740
C590	FLUORENE	166	651	50	36032	1.124	1.073
C595	4-NITROANILINE	138	672	50	8860	1.161	0.264
C610	4,6-DINITRO-2-METHYLPHENOL	198	677	50	6980	0.876	0.127
C615	N-NITROSODIPHENYLAMINE	169	682	50	33580	0.882	0.610
C625	4-BROMOPHENYL PHENYL ETHER	248	725	50	12017	0.938	0.218
C630	HEXACHLOROBENZENE	284	735	50	11889	0.951	0.216
C635	PENTACHLOROPHENOL	266	767	50	4583	0.992	0.083
C640	PHENANTHRENE	178	776	50	54389	1.004	0.987
C645	ANTHRACENE	178	782	50	49734	1.012	0.903
C650	DI-N-BUTYL PHTHALATE	149	892	50	74944	1.154	1.361
C655	FLUORANTHENE	202	937	50	48685	1.212	0.884
C715	PYRENE	202	964	50	50511	0.850	1.382
C720	BUTYL BENZYL PHTHALATE	149	1092	50	26902	0.963	0.736
C725	3,3'-DICHLOROBENZIDINE	252	1144	50	11791	1.009	0.323
C730	BENZO(A)ANTHRACENE	228	1132	50	40183	0.998	1.099
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1186	50	40000	1.046	1.094
C740	CHRYSENE	228	1137	50	34970	1.003	0.957
C760	DI-N-OCTYL PHTHALATE	149	1267	50	59871	0.965	2.138
C765	BENZO(B)FLUORANTHENE	252	1270	50	37496	0.967	1.339
C770	BENZO(K)FLUORANTHENE	252	1274	50	35492	0.970	1.268
C775	BENZO(A)PYRENE	252	1306	50	28362	0.995	1.013
C780	INDENO(1,2,3-CD)PYRENE	276	1428	50	20469	1.088	0.731
C785	DIBENZO(A,H)ANTHRACENE	278	1434	50	19563	1.092	0.699
C790	BENZO(GHI)PERYLENE	276	1453	50	22304	1.107	0.797
C620	1,2-DIPHENYL-HYDRAZINE	77	682	50	55317	0.882	1.004

RIC
04/25/93 13:51:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

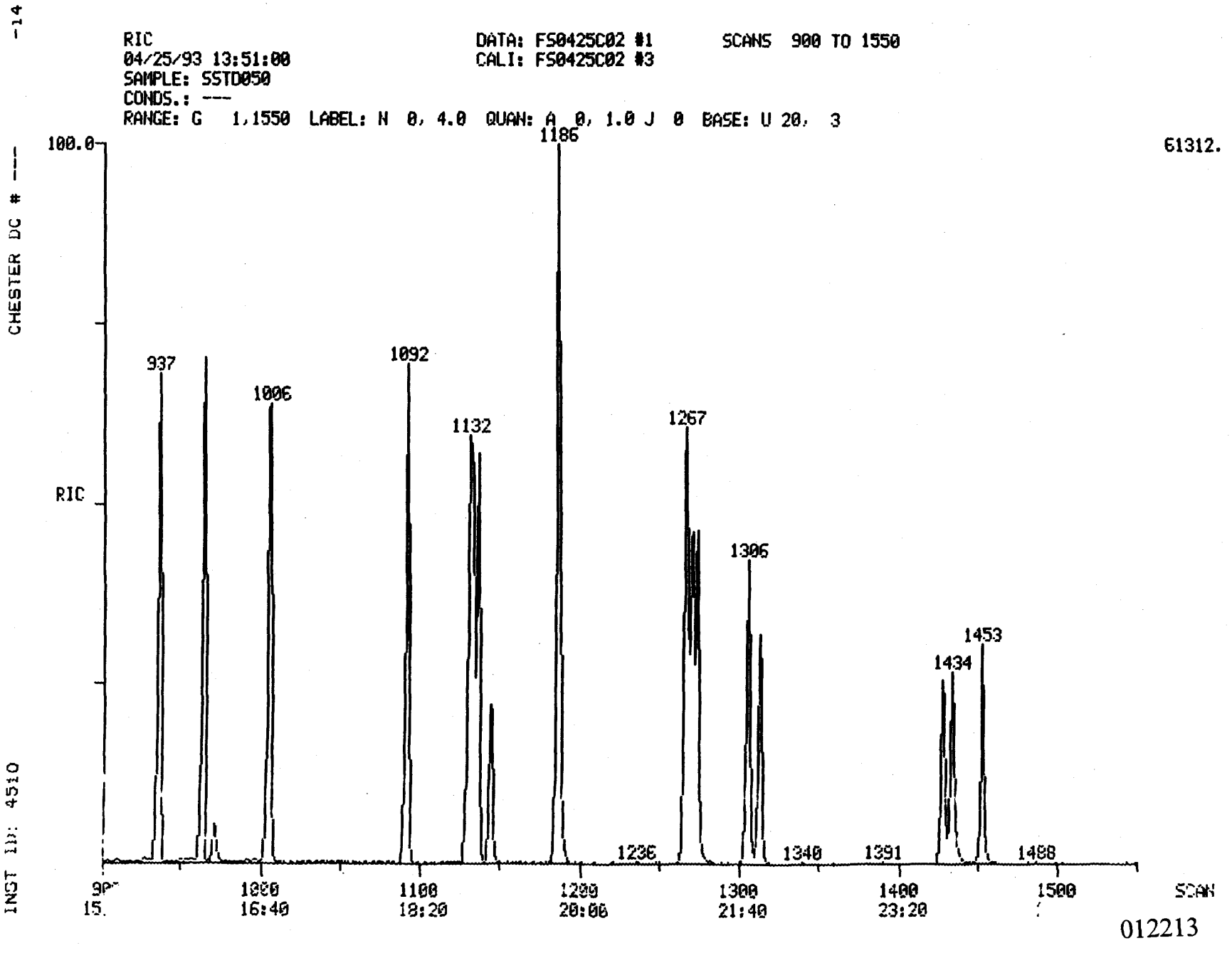
DATA: FS0425C02 #1
CALI: FS0425C02 #3

SCANS 115 TO 900



012212

012212


-14
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INST ID: 4510
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04/25/93 13:51:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0425C02 #1
CALI: FS0425C02 #3
SCANS 900 TO 1550
61312.
100.0
RIC
937
1006
1092
1132
1186
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900
15.
1000
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1500
SCAN

012213

Quantitation Report File: FS0425C02

Data: FS0425C02.TI
04/25/93 13:51:00
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Comnds.: ---
Formula: 04/21/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: ---

012214

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012215

	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	212	3:32	1	1.000	A BB	11110.	40.000 UG/L	0.95
2	136	352	5:52	2	1.000	A BB	45080.	40.000 UG/L	0.95
3	164	579	9:39	3	1.000	A BB	26876.	40.000 UG/L	0.95
4	188	773	12:53	4	1.000	A BB	44067.	40.000 UG/L	0.95
5	240	1134	18:54	5	1.000	A BB	29241.	40.000 UG/L	0.95
6	264	1313	21:53	6	1.000	A BB	22399.	40.000 UG/L	0.95
7	112	121	2:01	1	0.571	A BB	17012.	50.000 UG/L	1.19
8	99	202	3:22	1	0.953	A BB	25987.	50.000 UG/L	1.19
9	330	688	11:28	3	1.188	A BB	6055.	50.000 UG/L	1.19
10	82	274	4:34	2	0.778	A BB	22709.	50.000 UG/L	1.19
11	172	501	8:21	3	0.865	A BB	44767.	50.000 UG/L	1.19
12	244	1005	16:45	5	0.886	A VB	53073.	50.000 UG/L	1.19
13	94	203	3:23	1	0.958	A BB	22218.	50.000 UG/L	1.19
14	93	198	3:18	1	0.934	A BB	23740.	50.000 UG/L	1.19
15	128	199	3:19	1	0.939	A BB	18957.	50.000 UG/L	1.19
16	146	208	3:28	1	0.981	A BB	19818.	50.000 UG/L	1.19
17	146	214	3:34	1	1.009	A BB	20573.	50.000 UG/L	1.19
18	108	237	3:57	1	1.118	A BB	10884.	50.000 UG/L	1.19
19	146	231	3:51	1	1.090	A BB	19519.	50.000 UG/L	1.19
20	108	261	4:21	1	1.231	A BB	17066.	50.000 UG/L	1.19
21	45	254	4:14	1	1.198	A BB	49501.	50.000 UG/L	1.19
22	108	278	4:38	1	1.311	A BB	18965.	50.000 UG/L	1.19
23	70	270	4:30	1	1.274	A BV	19118.	50.000 UG/L	1.19
24	117	262	4:22	1	1.236	A BB	8886.	50.000 UG/L	1.19
[illegible]	77	276	4:36	2	0.784	A BB	27274.	50.000 UG/L	1.19
[illegible]	82	306	5:06	2	0.869	A BB	45711.	50.000 UG/L	1.19
27	139	313	5:13	2	0.889	A BB	10870.	50.000 UG/L	1.19
28	107	337	5:37	2	0.957	A BB	15426.	50.000 UG/L	1.19
29	122	368	6:08	2	1.045	A BB	9416.	50.000 UG/L	1.19
30	93	343	5:43	2	0.974	A BB	31104.	50.000 UG/L	1.19
31	162	347	5:47	2	0.986	A BB	15696.	50.000 UG/L	1.19
32	180	350	5:50	2	0.994	A BB	17757.	50.000 UG/L	1.19
33	128	354	5:54	2	1.006	A BB	50568.	50.000 UG/L	1.19
34	127	374	6:14	2	1.062	A BB	22907.	50.000 UG/L	1.19
35	225	384	6:24	2	1.091	A BB	9173.	50.000 UG/L	1.19
36	107	453	7:33	2	1.287	A BB	16048.	50.000 UG/L	1.19
37	142	443	7:23	2	1.259	A BB	44336.	50.000 UG/L	1.19
38	237	476	7:56	3	0.822	A BB	10122.	50.000 UG/L	1.19
39	176	492	8:12	3	0.850	A BV	11455.	50.000 UG/L	1.19
40	196	498	8:18	3	0.860	A VB	12206.	50.000 UG/L	1.19
41	162	504	8:24	3	0.870	A BB	36681.	50.000 UG/L	1.19
42	65	532	8:52	3	0.919	A BB	12150.	50.000 UG/L	1.19
43	163	570	9:30	3	0.984	A BB	44208.	50.000 UG/L	1.19
44	152	557	9:17	3	0.962	A BB	50911.	50.000 UG/L	1.19
45	138	589	9:49	3	1.017	A BB	10449.	50.000 UG/L	1.19
46	153	583	9:43	3	1.007	A BB	28535.	50.000 UG/L	1.19
47	184	602	10:02	3	1.040	A BB	4326.	50.000 UG/L	1.19
48	109	636	10:36	3	1.098	A BB	2272.	50.000 UG/L	1.19
49	168	606	10:06	3	1.047	A BB	49860.	50.000 UG/L	1.19
50	165	623	10:23	3	1.076	A BB	11109.	50.000 UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	5:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	12:53	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	18:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	21:53	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	2:01	1.00	0.571	1.00	50.00	50.00	1.225	1.225	1.00
8	3:22	1.00	0.953	1.00	50.00	50.00	1.871	1.871	1.00
9	11:28	1.00	1.188	1.00	50.00	50.00	0.180	0.180	1.00
10	4:34	1.00	0.778	1.00	50.00	50.00	0.403	0.403	1.00
11	8:21	1.00	0.865	1.00	50.00	50.00	1.333	1.333	1.00
12	16:45	1.00	0.886	1.00	50.00	50.00	1.452	1.452	1.00
13	3:23	1.00	0.958	1.00	50.00	50.00	1.600	1.600	1.00
14	3:18	1.00	0.934	1.00	50.00	50.00	1.709	1.709	1.00
15	3:19	1.00	0.939	1.00	50.00	50.00	1.365	1.365	1.00
16	3:28	1.00	0.981	1.00	50.00	50.00	1.427	1.427	1.00
17	3:34	1.00	1.009	1.00	50.00	50.00	1.481	1.481	1.00
18	3:57	1.00	1.118	1.00	50.00	50.00	0.784	0.784	1.00
19	3:51	1.00	1.090	1.00	50.00	50.00	1.406	1.406	1.00
20	4:21	1.00	1.231	1.00	50.00	50.00	1.229	1.229	1.00
21	4:14	1.00	1.198	1.00	50.00	50.00	3.564	3.564	1.00
22	4:38	1.00	1.311	1.00	50.00	50.00	1.366	1.366	1.00
23	4:30	1.00	1.274	1.00	50.00	50.00	1.377	1.377	1.00
24	4:22	1.00	1.236	1.00	50.00	50.00	0.640	0.640	1.00
25	4:36	1.00	0.784	1.00	50.00	50.00	0.484	0.484	1.00
26	5:06	1.00	0.869	1.00	50.00	50.00	0.811	0.811	1.00
27	5:13	1.00	0.889	1.00	50.00	50.00	0.193	0.193	1.00
28	5:37	1.00	0.957	1.00	50.00	50.00	0.274	0.274	1.00
29	6:08	1.00	1.045	1.00	50.00	50.00	0.167	0.167	1.00
30	5:43	1.00	0.974	1.00	50.00	50.00	0.552	0.552	1.00
31	5:47	1.00	0.986	1.00	50.00	50.00	0.279	0.279	1.00
32	5:50	1.00	0.994	1.00	50.00	50.00	0.315	0.315	1.00
33	5:54	1.00	1.006	1.00	50.00	50.00	0.897	0.897	1.00
34	6:14	1.00	1.062	1.00	50.00	50.00	0.407	0.407	1.00
35	6:24	1.00	1.091	1.00	50.00	50.00	0.163	0.163	1.00
36	7:33	1.00	1.287	1.00	50.00	50.00	0.285	0.285	1.00
37	7:23	1.00	1.259	1.00	50.00	50.00	0.787	0.787	1.00
38	7:56	1.00	0.822	1.00	50.00	50.00	0.301	0.301	1.00
39	8:12	1.00	0.850	1.00	50.00	50.00	0.341	0.341	1.00
40	8:18	1.00	0.860	1.00	50.00	50.00	0.363	0.363	1.00
41	8:24	1.00	0.870	1.00	50.00	50.00	1.092	1.092	1.00
42	8:52	1.00	0.919	1.00	50.00	50.00	0.362	0.362	1.00
43	9:30	1.00	0.984	1.00	50.00	50.00	1.316	1.316	1.00
44	9:17	1.00	0.962	1.00	50.00	50.00	1.515	1.515	1.00
45	9:49	1.00	1.017	1.00	50.00	50.00	0.311	0.311	1.00
46	9:43	1.00	1.007	1.00	50.00	50.00	0.849	0.849	1.00
47	10:02	1.00	1.040	1.00	50.00	50.00	0.129	0.129	1.00
48	10:36	1.00	1.098	1.00	50.00	50.00	0.068	0.068	1.00
49	10:06	1.00	1.047	1.00	50.00	50.00	1.484	1.484	1.00
50	10:23	1.00	1.076	1.00	50.00	50.00	0.331	0.331	1.00

012216

Quantitation Report File: FS0425C02

Data: FS0425C02.TI
04/25/93 13:51:00
Sample: SSTD050
Mods.: ---
Formula: 04/21/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JZ Acct. No.: ---

012217

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
[illegible]	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	574	9:34	3	0.991	A BB	9769.	50.000 UG/L	1.19
52	149	668	11:08	3	1.154	A BB	43018.	50.000 UG/L	1.19
53	204	662	11:02	3	1.143	A BB	24871.	50.000 UG/L	1.19
54	166	651	10:51	3	1.124	A BB	36032.	50.000 UG/L	1.19
55	138	672	11:12	3	1.161	A BB	8860.	50.000 UG/L	1.19
56	198	677	11:17	4	0.876	A BB	6980.	50.000 UG/L	1.19
[illegible]	169	682	11:22	4	0.882	A BB	33580.	50.000 UG/L	1.19
[illegible]	248	725	12:05	4	0.938	A BB	12017.	50.000 UG/L	1.19

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	284	735	12:15	4	0.951	A BB	11889.	50.000 UG/L	1.19
60	266	767	12:47	4	0.992	A BB	4583.	50.000 UG/L	1.19
61	178	776	12:56	4	1.004	M XX	54389.	50.000 UG/L	1.19
62	178	782	13:02	4	1.012	M XX	49734.	50.000 UG/L	1.19
63	149	892	14:52	4	1.154	A VB	74944.	50.000 UG/L	1.19
64	202	937	15:37	4	1.212	A VB	48685.	50.000 UG/L	1.19
65	202	964	16:04	5	0.850	A VB	50511.	50.000 UG/L	1.19
66	149	1092	18:12	5	0.963	A BB	26902.	50.000 UG/L	1.19
67	252	1144	19:04	5	1.009	A BB	11791.	50.000 UG/L	1.19
68	228	1132	18:52	5	0.998	M XX	40183.	50.000 UG/L	1.19
69	149	1186	19:46	5	1.046	A BB	40000.	50.000 UG/L	1.19
70	228	1137	18:57	5	1.003	A VB	34970.	50.000 UG/L	1.19
71	149	1267	21:07	6	0.965	A BB	59871.	50.000 UG/L	1.19
72	252	1270	21:10	6	0.967	M XX	37496.	50.000 UG/L	1.19
73	252	1274	21:14	6	0.970	M XX	35492.	50.000 UG/L	1.19
74	252	1306	21:46	6	0.995	A BB	28362.	50.000 UG/L	1.19
75	276	1428	23:48	6	1.088	M XX	20469.	50.000 UG/L	1.19
76	278	1434	23:54	6	1.092	M XX	19563.	50.000 UG/L	1.19
77	276	1453	24:13	6	1.107	M XX	22304.	50.000 UG/L	1.19
78	74	54	0:54	1	0.255	A VB	11934.	50.000 UG/L	1.19
79	184	759	12:39	5	0.669	M XX	281.	50.000 UG/L	1.19
80	132	197	3:17	1	0.929	A BB	26482.	50.000 UG/L	1.19
81	152	230	3:50	1	1.085	M XX	12318.	50.000 UG/L	1.19
82	167	815	13:35	4	1.054	A BB	48195.	50.000 UG/L	1.19
83	93	189	3:09	1	0.892	M XX	26519.	50.000 UG/L	1.19
84	79	54	0:54	1	0.255	M XX	18895.	50.000 UG/L	1.19
85	77	682	11:22	4	0.882	M XX	55317.	50.000 UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:34	1.00	0.991	1.00	50.00	50.00	0.291	0.291	1.00
52	11:08	1.00	1.154	1.00	50.00	50.00	1.280	1.280	1.00
53	11:02	1.00	1.143	1.00	50.00	50.00	0.740	0.740	1.00
54	10:51	1.00	1.124	1.00	50.00	50.00	1.073	1.073	1.00
55	11:12	1.00	1.161	1.00	50.00	50.00	0.264	0.264	1.00
56	11:17	1.00	0.876	1.00	50.00	50.00	0.127	0.127	1.00
57	11:22	1.00	0.882	1.00	50.00	50.00	0.610	0.610	1.00
58	12:05	1.00	0.938	1.00	50.00	50.00	0.218	0.218	1.00
59	12:15	1.00	0.951	1.00	50.00	50.00	0.216	0.216	1.00
60	12:47	1.00	0.992	1.00	50.00	50.00	0.083	0.083	1.00
61	12:56	1.00	1.004	1.00	50.00	50.00	0.987	0.987	1.00
62	13:02	1.00	1.012	1.00	50.00	50.00	0.903	0.903	1.00
63	14:52	1.00	1.154	1.00	50.00	50.00	1.361	1.361	1.00
64	15:37	1.00	1.212	1.00	50.00	50.00	0.884	0.884	1.00
65	16:04	1.00	0.850	1.00	50.00	50.00	1.382	1.382	1.00
66	18:12	1.00	0.963	1.00	50.00	50.00	0.736	0.736	1.00
67	19:04	1.00	1.009	1.00	50.00	50.00	0.323	0.323	1.00
68	18:52	1.00	0.998	1.00	50.00	50.00	1.099	1.099	1.00
69	19:46	1.00	1.046	1.00	50.00	50.00	1.094	1.094	1.00
70	18:57	1.00	1.003	1.00	50.00	50.00	0.957	0.957	1.00
71	21:07	1.00	0.965	1.00	50.00	50.00	2.138	2.138	1.00
72	21:10	1.00	0.967	1.00	50.00	50.00	1.339	1.339	1.00
73	21:14	1.00	0.970	1.00	50.00	50.00	1.268	1.268	1.00
74	21:46	1.00	0.995	1.00	50.00	50.00	1.013	1.013	1.00
75	23:48	1.00	1.088	1.00	50.00	50.00	0.731	0.731	1.00
76	23:54	1.00	1.092	1.00	50.00	50.00	0.699	0.699	1.00
77	24:13	1.00	1.107	1.00	50.00	50.00	0.797	0.797	1.00

012218

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
78	0:54	1.00	0.255	1.00	50.00	50.00	0.859	0.859	1.00
79	12:39	1.00	0.669	1.00	50.00	50.00	0.008	0.008	1.00
80	3:17	1.00	0.929	1.00	50.00	50.00	1.907	1.907	1.00
[illegible]	3:50	1.00	1.085	1.00	50.00	50.00	0.887	0.887	1.00
[illegible]	13:35	1.00	1.054	1.00	50.00	50.00	0.875	0.875	1.00
83	3:09	1.00	0.892	1.00	50.00	50.00	1.910	1.910	1.00
84	0:54	1.00	0.255	1.00	50.00	50.00	1.361	1.361	1.00
85	11:22	1.00	0.882	1.00	50.00	50.00	1.004	1.004	1.00

012219

GC/MS Tuning and Mass Calibration

DECAFLUOROTRIPHENYLPHOSPHINE

Case Number:	---	Laboratory:	KEYSTONE	Contract:	---
Inst ID:	4510	Sens Date:	05/26/93	Sens Time:	11:25:00
Lab ID:	FS0526C01	Cali Date:	05/26/93	Analyst:	JDD

Data release authorized by: Juanita D. Drummond

M/E	Ion Abundance Criteria	Spec # 273	
51	30 to 60% of mass 198	31.42	
68	less than 2% of mass 69	0.00	(0.00) 1
69	mass 69 relative abundance	33.39	
70	less than 2% of mass 69	0.14	(0.42) 1
127	40 TO 60% of mass 198	50.24	
197	less than 1% of mass 198	0.00	
198	base peak, 100% relative abundance	100.00	
199	5 TO 9% of mass 198	6.47	
275	10 TO 30% of mass 198	20.14	
365	greater than 1% of mass 198	1.10	
441	less than mass 443	5.85	
442	greater than 40% of mass 198	59.61	
443	17 TO 23% of mass 442	10.73	(18.00) 2

1 - value in parenthesis is % of mass 69
2 - value in parenthesis is % of mass 442

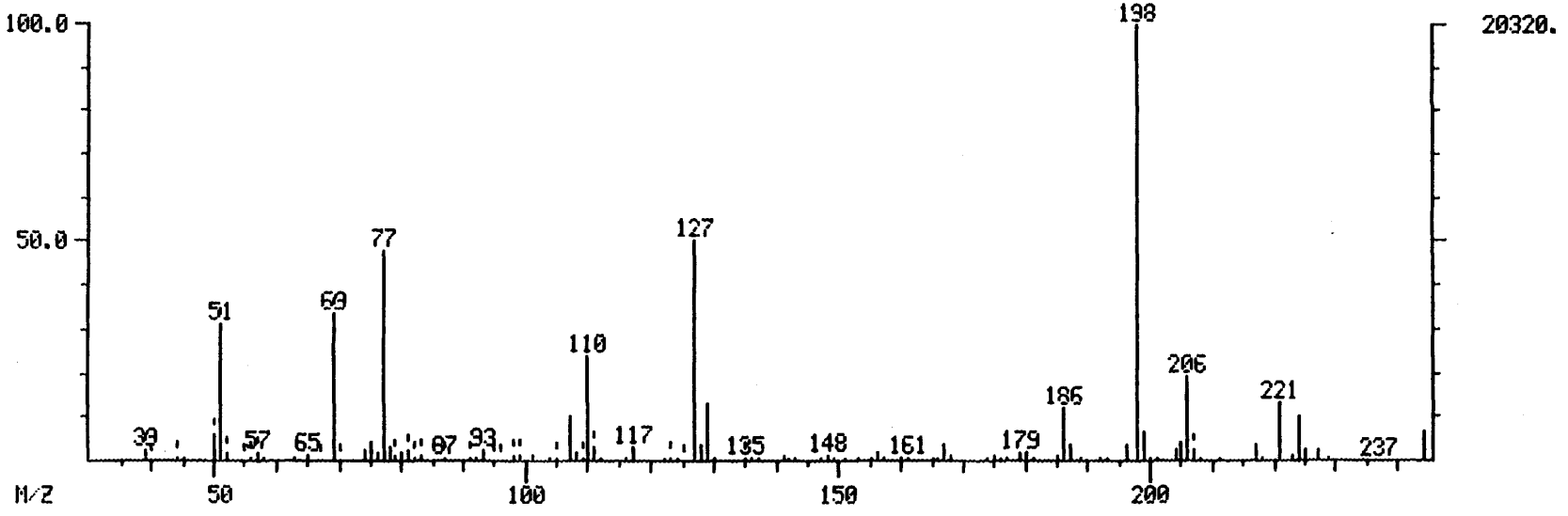
-15

MASS SPECTRUM
05/26/93 11:25:00 + 4:34
SAMPLE: DFTPP
CONDS.: ---
GC TEMP:*158 DEG. C
#273 TO #275 SUMMED - #265

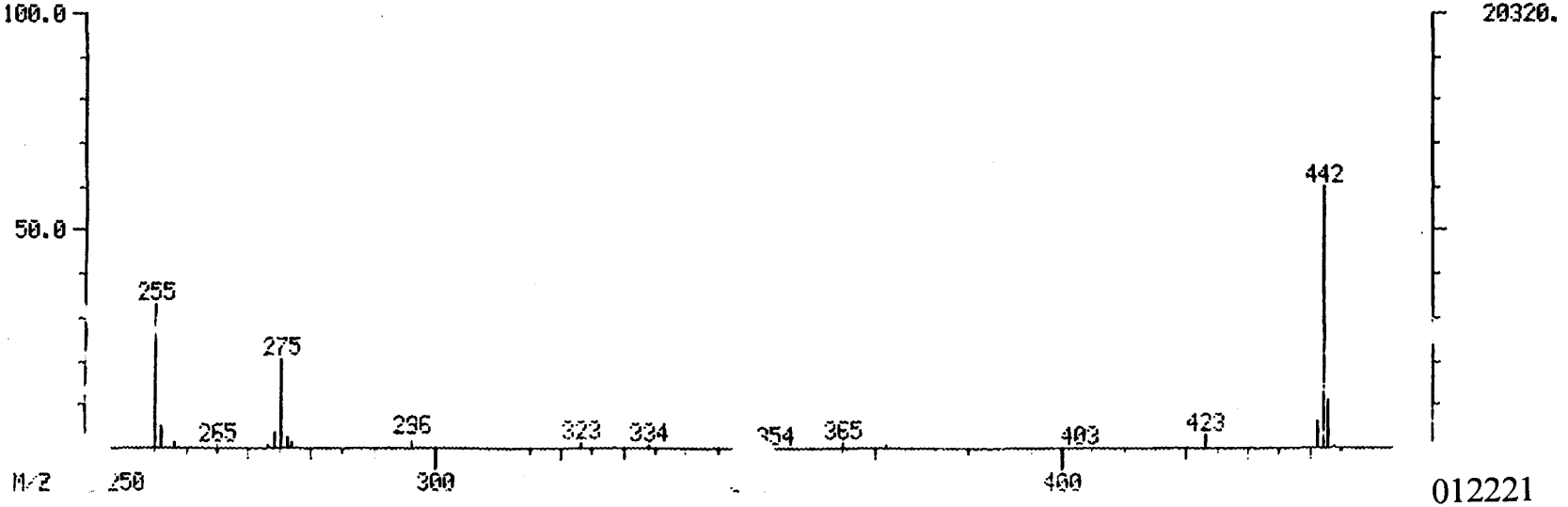
DATA: FS0526C01 #274
CALI: FS0526C01 #3

BASE M/Z: 198
RIC: 132096.

CHESTER DC # ---



DFTPP SPECTRA



INST ID: 4510

012221

INST ID: 4510 CHESTER DC # ---

DFTPP MASS LISTING

Mass List Data: FS0526C01 # 274 Base m/z: 198

05/26/93 11:25:00 + 4:34 Cali: FS0526C01 # 3 RIC: 132096.

Sample: DFTPP

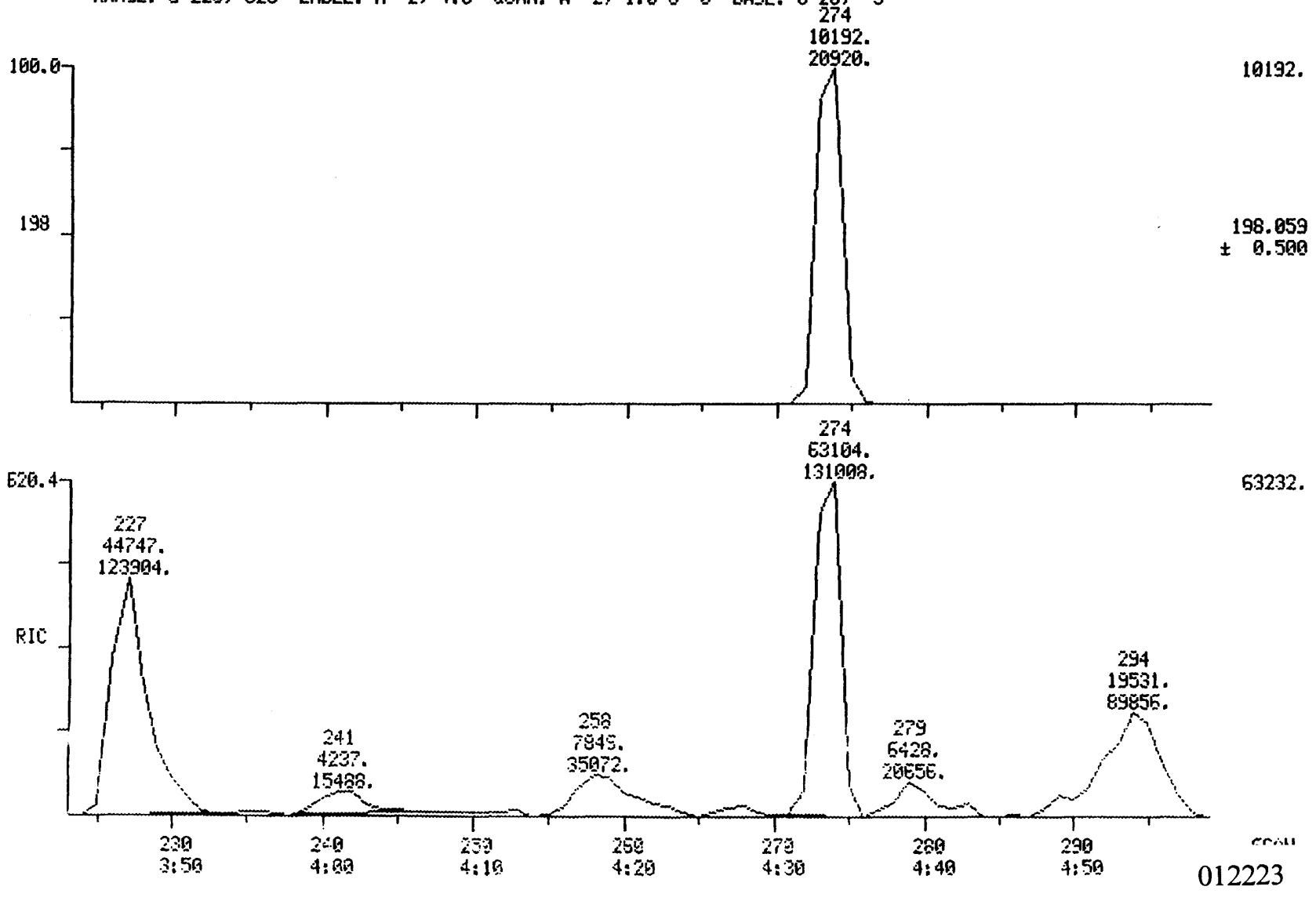
ds.: ---

#273 to #275 summed - #265

012222

39		0.00	0.	Minima	Min Inten:		90.
444				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
39?	S	2.53	515.	161		0.90	182.
44	S	0.48	97.	165		0.54	109.
50	S	5.80	1178.	167		3.47	706.
51	S	31.42	6384.	168		1.03	210.
52	S	1.72	349.	175		1.36	277.
56	S	0.75	153.	177		0.46	94.
57	S	1.86	377.	179		1.74	354.
63		0.86	175.	180		1.74	353.
65		0.91	185.	181		0.81	164.
69	S	33.39	6784.	185		0.99	202.
74		2.25	457.	186		11.79	2396.
75		4.35	884.	187		3.38	686.
76		1.81	367.	192		0.63	128.
77		47.95	9744.	193		0.84	171.
78		2.81	572.	196		3.42	695.
79	S	1.46	297.	198		100.00	20320.
80		1.56	317.	199		6.47	1314.
81	S	2.14	435.	201		0.58	117.
82	S	0.48	97.	204		2.16	438.
83	S	1.23	249.	205		4.49	912.
93		2.37	482.	206		18.98	3856.
98	S	1.34	273.	207	S	2.46	500.
99	S	1.30	264.	211		0.80	162.
101		0.91	184.	217		3.51	714.
104		0.50	101.	221		12.99	2640.
105	S	0.47	96.	223		0.94	192.
107		10.22	2076.	224		10.00	2032.
108		2.00	406.	225		2.38	484.
109	S	0.73	149.	227		2.35	478.
110		24.13	4904.	229		0.66	134.
111	S	2.82	573.	244		6.57	1336.
112		0.47	96.	245		0.79	161.
116		0.46	93.	246		0.80	162.
117		3.16	643.	255		32.80	6664.
123	S	0.72	146.	256		4.72	959.
124		0.50	102.	258		1.08	219.
127		50.24	10208.	273		0.88	179.
128		3.75	763.	274		3.51	714.
129		12.89	2620.	275		20.14	4092.
130		0.88	178.	276		2.36	479.
135	S	0.82	167.	277		1.05	213.
136		0.45	91.	296		2.47	501.
137		0.64	131.	323		1.12	227.
141		1.43	290.	334		0.79	160.
142		0.45	91.	365		1.10	224.
147		0.83	169.	423		3.10	629.
148		1.11	225.	441		5.85	1188.
155		0.77	156.	442		59.61	12112.
156		1.56	317.	443		10.73	2180.
157		0.45	91.	444		0.68	138.

RIC+MASS CHROMATOGRAM DATA: FS0526C01 #273 SCANS 223 TO 299
05/26/93 11:25:00 CALI: FS0526C01 #3
SAMPLE: DFTPP
CONDS.: ---
RANGE: G 223, 323 LABEL: N 2, 4.0 QUAN: A 2, 1.0 J 0 BASE: U 20, 3



012223

INITIAL CALIBRATION DATA - SEMIVOLATILE HSL COMPOUNDS

012224

CASE NO. ---
CONTRACT LAB: KEYSTONE
CONTRACT NO. ---
INSTRUMENT IDENTIFIER: 4510
CALIBRATION DATE: 05/26/93
MINIMUM MEAN RF FOR SPCC IS 0.05
MAXIMUM %RSD FOR CCC IS 30%

	COMPOUND	RF 20NG	RF 50NG	RF 80NG	RF 120NG	RF 160NG	MEAN RF	%RSD
C315	PHENOL	1.979	1.821	1.797	1.771	1.895	1.853	4.569
C325	BIS(2-CHLOROETHYL)ETHE	1.784	1.559	1.394	1.215	1.046	1.400	20.609
C330	2-CHLOROPHENOL	1.552	1.454	1.382	1.376	1.317	1.416	6.373
C335	1,3-DICHLOROBENZENE	1.475	1.480	1.467	1.486	1.551	1.492	2.268
C340	1,4-DICHLOROBENZENE	1.519	1.512	1.552	1.620	1.619	1.564	3.360
C345	BENZYL ALCOHOL	0.732	0.921	0.852	0.644	0.462	0.722	24.977
C350	1,2-DICHLOROBENZENE	1.355	1.391	1.458	1.458	1.323	1.397	4.355
C355	2-METHYLPHENOL	1.352	1.394	1.464	1.392	1.336	1.388	3.548
C357	2,2'-OXYBIS(1-CHLOROPR	2.259	2.083	1.980	1.999	2.065	2.077	5.311
C365	4-METHYLPHENOL	1.331	1.441	1.519	1.539	1.464	1.459	5.618
C370	N-NITROSODIPROPYLAMINE	1.059	0.973	0.960	0.935	1.100	1.005	7.022
C375	HEXACHLOROETHANE	0.476	0.494	0.525	0.522	0.535	0.510	4.809
C410	NITROBENZENE	0.529	0.480	0.535	0.554	0.496	0.519	5.792
C415	ISOPHORONE	0.769	0.692	0.774	0.780	0.729	0.749	4.990
C420	2-NITROPHENOL	0.221	0.208	0.236	0.246	0.247	0.231	7.310
C425	2,4-DIMETHYLPHENOL	0.248	0.271	0.286	0.305	0.310	0.284	8.955
C430	BENZOIC ACID	0.204	0.233	0.173	0.176	0.197	0.197	12.188
C435	BIS(2-CHLOROETHOXY)MET	0.535	0.459	0.477	0.496	0.501	0.493	5.728
C440	2,4-DICHLOROPHENOL	0.298	0.282	0.305	0.312	0.310	0.302	4.011
15	1,2,4-TRICHLOROBENZENE	0.300	0.278	0.305	0.309	0.312	0.301	4.393
0	NAPHTHALENE	1.115	0.900	1.072	1.124	1.110	1.064	8.826
C455	4-CHLOROANILINE	0.413	0.430	0.541	0.523	0.499	0.481	11.792
C460	HEXACHLOROBUTADIENE	0.125	0.120	0.129	0.131	0.134	0.128	4.142
C465	P-CHLORO-M-CRESOL	0.291	0.293	0.229	0.278	0.262	0.271	9.630
C470	2-METHYLNAPHTHALENE	0.744	0.811	0.719	0.835	0.862	0.794	7.634
C510	HEXACHLOROCYCLOPENTADI	0.182	0.199	0.232	0.256	0.292	0.232	18.852
C515	2,4,6-TRICHLOROPHENOL	0.311	0.303	0.412	0.425	0.446	0.379	17.746
C520	2,4,5-TRICHLOROPHENOL	0.318	0.308	0.274	0.276	0.228	0.281	12.610
C525	2-CHLORONAPHTHALENE	0.963	0.943	1.074	1.084	1.143	1.041	8.172
C530	2-NITROANILINE	0.316	0.346	0.408	0.414	0.390	0.375	11.245
C535	DIMETHYL PHTHALATE	1.333	1.150	1.139	1.182	1.245	1.210	6.632
C540	ACENAPHTHYLENE	1.631	1.437	1.794	1.907	1.885	1.731	11.372
C545	3-NITROANILINE	0.332	0.338	0.401	0.389	0.408	0.374	9.534
C550	ACENAPHTHENE	0.955	0.808	0.942	1.012	1.014	0.946	8.844
C555	2,4-DINITROPHENOL	0.137	0.161	0.154	0.176	0.155	0.157	8.778
C560	4-NITROPHENOL	0.097	0.098	0.074	0.082	0.086	0.087	11.676
C565	DIBENZOFURAN	1.358	1.323	1.347	1.450	1.498	1.395	5.376
C570	2,4-DINITROTOLUENE	0.310	0.293	0.259	0.259	0.206	0.266	14.950
C573	2,6-DINITROTOLUENE	0.256	0.270	0.324	0.321	0.333	0.301	11.678
C580	DIETHYL PHTHALATE	1.403	1.142	0.891	0.973	0.983	1.079	18.807
C585	4-CHLOROPHENYL PHENYL	0.818	0.676	0.604	0.648	0.643	0.678	12.170
C590	FLUORENE	1.265	1.077	1.041	1.081	1.001	1.093	9.266
C595	4-NITROANILINE	0.271	0.285	0.341	0.359	0.312	0.314	11.690
C610	4,6-DINITRO-2-METHYLPH	0.102	0.117	0.116	0.117	0.111	0.113	5.711
C615	N-NITROSODIPHENYLAMINE	0.608	0.526	0.480	0.470	0.429	0.503	13.548
5	4-BROMOPHENYL PHENYL E	0.214	0.176	0.197	0.192	0.190	0.194	7.125
C630	HEXACHLOROBENZENE	0.166	0.161	0.191	0.195	0.185	0.180	8.381
C635	PENTACHLOROPHENOL	0.119	0.123	0.145	0.140	0.130	0.132	8.392
C640	PHENANTHRENE	1.338	1.136	1.471	1.527	1.421	1.379	11.052
C645	ANTHRACENE	1.274	1.039	1.209	1.202	1.022	1.149	9.748
C650	DI-N-BUTYL PHTHALATE	2.209	1.725	2.000	2.139	2.025	2.019	9.164
C655	FLUORANTHENE	1.643	1.303	1.627	1.708	1.637	1.584	10.098

C715	PYRENE	1.570	1.314	1.558	1.622	1.541	1.521	7.872
C720	BUTYL BENZYL PHTHALATE	0.937	0.780	0.755	0.811	0.783	0.813	8.884
C725	3,3'-DICHLOROBENZIDINE	0.440	0.312	0.424	0.427	0.432	0.407	13.070
C730	BENZO(A)ANTHRACENE	1.476	1.207	1.497	1.619	1.690	1.498	12.341
C745	BIS(2-ETHYLHEXYL)PHTHA	1.424	1.178	1.104	1.212	1.190	1.222	9.825
10	CHRYSENE	1.257	0.992	0.997	0.979	0.837	1.012	15.009
C760	DI-N-OCTYL PHTHALATE	2.535	2.217	2.113	2.226	1.773	2.173	12.577
C765	BENZO(B)FLUORANTHENE	1.521	1.255	1.451	1.519	1.671	1.484	10.163
C770	BENZO(K)FLUORANTHENE	1.165	1.056	0.932	0.957	0.806	0.983	13.712
C775	BENZO(A)PYRENE	1.155	0.998	1.095	1.138	1.155	1.108	5.976
C780	INDENO(1,2,3-CD)PYRENE	0.900	0.804	0.944	0.983	1.115	0.949	12.014
C785	DIBENZO(A,H)ANTHRACENE	0.859	0.776	0.872	0.924	0.994	0.885	9.141
C790	BENZO(GHI)PERYLENE	0.946	0.878	0.947	0.972	1.038	0.956	6.021
C310	N-NITROSODIMETHYLAMINE	1.746	1.032	1.017	1.062	1.170	1.205	25.539
C620	1,2-DIPHENYL-HYDRAZINE	0.773	0.752	0.815	0.769	0.725	0.767	4.271
CS70	2-CHLOROPHENOL-D4 ** S	1.744	2.124	1.969	1.884	1.865	1.917	7.348
CS75	1,2-DICHLOROBENZENE-D4	0.712	0.894	0.843	0.799	0.814	0.813	8.194
C647	CARBAZOLE	1.240	1.101	1.329	1.394	1.367	1.286	9.223
CS30	2-FLUOROPHENOL ** SU1	1.466	1.758	1.697	1.622	1.684	1.645	6.762
CS45	PHENOL-D5 ** SU2 **	1.815	2.211	2.007	1.863	1.854	1.950	8.346
CS55	2,4,6-TRIBROMOPHENOL	0.126	0.158	0.151	0.152	0.165	0.150	9.923
CS20	NITROBENZENE-D5 ** SU3	0.347	0.389	0.401	0.386	0.378	0.380	5.298
CS25	2-FLUOROBIPHENYL ** SU	0.880	1.043	1.119	1.099	1.132	1.055	9.779
CS30	TERPHENYL-D14 ** SU6	1.143	1.207	1.252	1.245	1.236	1.217	3.660
BENZENETHIOL								
METHYL CHRYSENE								
QUINOLINE								
C720	1-METHYLNAPHTHALENE							
7,12-DIMETHYLBENZ(A)ANTHRACE								
DIBENZ(A,H)ACRIDINE								
4-METHYLPHENOL								
DENE								
A950	PYRIDINE							
A953	2,6-DICHLOROPHENOL							
A987	2,5-DICHLOROPHENOL							
A988	3,4-DICHLOROPHENOL							
A989	2,3-DICHLOROPHENOL							
A990	3,5-DICHLOROPHENOL							
A991	1,3,5-TRICHLOROBENZENE							
A992	1,2,3-TRICHLOROBENZENE							
CI30	1,4-DICHLOROBENZENE-D4	0.000	1.000	1.000	1.000	1.000	1.000	0.000

012225

CALIBRATION CHECK - SEMIVOLATILE HSL COMPOUNDS

CASE NO. --- CONTRACT LAB: KEYSTONE

CONTRACT NO. --- INSTRUMENT IDENTIFIER: 4510

CALIBRATION DATE: 05/26/93

STANDARD FILE: FS0526C02

E: 05/26/93 TIME: 12:59

MAXIMUM % D FOR CCC IS 20

012226

	COMPOUND	MEAN RF(I)	RF(D)	% D
C315	PHENOL	1.853	1.821	-1.695
C325	BIS(2-CHLOROETHYL)ETHE	1.400	1.559	11.395
C330	2-CHLOROPHENOL	1.416	1.454	2.699
C335	1,3-DICHLOROBENZENE	1.492	1.480	-0.770
C340	1,4-DICHLOROBENZENE	1.564	1.512	-3.370
C345	BENZYL ALCOHOL	0.722	0.921	27.534
C350	1,2-DICHLOROBENZENE	1.397	1.391	-0.452
C355	2-METHYLPHENOL	1.388	1.394	0.452
C357	2,2'-OXYBIS(1-CHLOROPR	2.077	2.083	0.304
C365	4-METHYLPHENOL	1.459	1.441	-1.223
C370	N-NITROSODIPROPYLAMINE	1.005	0.973	-3.259
C375	HEXACHLOROETHANE	0.510	0.494	-3.260
C410	NITROBENZENE	0.519	0.480	-7.412
C415	ISOPHORONE	0.749	0.692	-7.553
C420	2-NITROPHENOL	0.231	0.208	-10.208
C425	2,4-DIMETHYLPHENOL	0.284	0.271	-4.629
C430	BENZOIC ACID	0.197	0.233	18.266
C435	BIS(2-CHLOROETHOXY)MET	0.493	0.459	-6.931
C440	2,4-DICHLOROPHENOL	0.302	0.282	-6.393
15	1,2,4-TRICHLOROBENZENE	0.301	0.278	-7.406
50	NAPHTHALENE	1.064	0.900	-15.424
C455	4-CHLOROANILINE	0.481	0.430	-10.571
C460	HEXACHLOROBUTADIENE	0.128	0.120	-6.027
C465	P-CHLORO-M-CRESOL	0.271	0.293	8.158
C470	2-METHYLNAPHTHALENE	0.794	0.811	2.079
C510	HEXACHLOROCYCLOPENTADI	0.232	0.199	-14.332
C515	2,4,6-TRICHLOROPHENOL	0.379	0.303	-20.220
C520	2,4,5-TRICHLOROPHENOL	0.281	0.308	9.738
C525	2-CHLORONAPHTHALENE	1.041	0.943	-9.479
C530	2-NITROANILINE	0.375	0.346	-7.683
C535	DIMETHYL PHTHALATE	1.210	1.150	-4.939
C540	ACENAPHTHYLENE	1.731	1.437	-16.965
C545	3-NITROANILINE	0.374	0.338	-9.424
C550	ACENAPHTHENE	0.946	0.808	-14.597
C555	2,4-DINITROPHENOL	0.157	0.161	2.623
C560	4-NITROPHENOL	0.087	0.098	12.464
C565	DIBENZOFURAN	1.395	1.323	-5.159
C570	2,4-DINITROTOLUENE	0.266	0.293	10.208
C573	2,6-DINITROTOLUENE	0.301	0.270	-10.184
C580	DIETHYL PHTHALATE	1.079	1.142	5.888
C585	4-CHLOROPHENYL PHENYL	0.678	0.676	-0.208
C590	FLUORENE	1.093	1.077	-1.464
C595	4-NITROANILINE	0.314	0.285	-9.024
C610	4,6-DINITRO-2-METHYLPH	0.113	0.117	3.797
C615	N-NITROSODIPHENYLAMINE	0.503	0.526	4.715
25	4-BROMOPHENYL PHENYL E	0.194	0.176	-9.353
C630	HEXACHLOROBENZENE	0.180	0.161	-10.263
C635	PENTACHLOROPHENOL	0.132	0.123	-6.750
C640	PHENANTHRENE	1.379	1.136	-17.596
C645	ANTHRACENE	1.149	1.039	-9.557
C650	DI-N-BUTYL PHTHALATE	2.019	1.725	-14.565
C655	FLUORANTHENE	1.584	1.303	-17.703

C715	PYRENE	1.521	1.314	-13.627
C720	BUTYL BENZYL PHTHALATE	0.813	0.780	-4.089
C725	3,3'-DICHLOROBENZIDINE	0.407	0.312	-23.236
C730	BENZO(A)ANTHRACENE	1.498	1.207	-19.422
C745	BIS(2-ETHYLHEXYL)PHTHA	1.222	1.178	-3.550
0	CHRYSENE	1.012	0.992	-2.017
[illegible]0	DI-N-OCTYL PHTHALATE	2.173	2.217	2.028
C765	BENZO(B)FLUORANTHENE	1.484	1.255	-15.376
C770	BENZO(K)FLUORANTHENE	0.983	1.056	7.356
C775	BENZO(A)PYRENE	1.108	0.998	-9.940
C780	INDENO(1,2,3-CD)PYRENE	0.949	0.804	-15.285
C785	DIBENZO(A,H)ANTHRACENE	0.885	0.776	-12.329
C790	BENZO(GHI)PERYLENE	0.956	0.878	-8.173
C310	N-NITROSODIMETHYLAMINE	1.205	1.032	-14.371
C620	1,2-DIPHENYL-HYDRAZINE	0.767	0.752	-1.962
CS70	2-CHLOROPHENOL-D4 ** S	1.917	2.124	10.786
CS75	1,2-DICHLOROBENZENE-D4	0.813	0.894	10.008
C647	CARBAZOLE	1.286	1.101	-14.379
CS50	2-FLUOROPHENOL ** SU1	1.645	1.758	6.832
CS45	PHENOL-D5 ** SU2 **	1.950	2.211	13.354
CS55	2,4,6-TRIBROMOPHENOL	0.150	0.158	5.233
CS20	NITROBENZENE-D5 ** SU3	0.380	0.389	2.228
CS25	2-FLUOROBIPHENYL ** SU	1.055	1.043	-1.071
CS30	TERPHENYL-D14 ** SU6	1.217	1.207	-0.804

BENZENETHIOL
METHYL CHRYSENE
QUINOLINE
C720 1-METHYLNAPHTHALENE
7,12-DIMETHYLBENZ(A)ANTHRACE
DIBENZ(A,H)ACRIDINE
[illegible]-METHYLPHENOL
ENE
A950 PYRIDINE
A953 2,6-DICHLOROPHENOL
A987 2,5-DICHLOROPHENOL
A988 3,4-DICHLOROPHENOL
A989 2,3-DICHLOROPHENOL
A990 3,5-DICHLOROPHENOL
A991 1,3,5-TRICHLOROBENZENE
A992 1,2,3-TRICHLOROBENZENE

012227

CHESTER DC # ----17

012228

SV STANDARD REPORT

PLE ID. SSTD050 INST. ID.: 4510

LAB ID. FS0526C02

CLIENT CHESTER ANALYST JDD

DATE INJECTED 05/26/93 12:59:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	227	40	12832	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	369	40	44790	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	599	40	27607	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	794	40	50345	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1157	40	51704	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1338	40	48550	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	130	50	28197	0.573	1.758
CS45	PHENOL-D5 ** SU2 **	99	212	50	35458	0.934	2.211
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	707	50	5464	1.180	0.158
CS20	NITROBENZENE-D5 ** SU3 **	82	289	50	21763	0.783	0.389
CS25	2-FLUOROBIPHENYL ** SU4 **	172	519	50	36006	0.866	1.043
CS30	TERPHENYL-D14 ** SU6 **	244	1027	50	77990	0.888	1.207
C315	PHENOL	94	213	50	29216	0.938	1.821
C325	BIS(2-CHLOROETHYL)ETHER	93	212	50	25007	0.934	1.559
C330	2-CHLOROPHENOL	128	212	50	23329	0.934	1.454
C335	1,3-DICHLOROBENZENE	146	223	50	23747	0.982	1.480
C340	1,4-DICHLOROBENZENE	146	228	50	24245	1.004	1.512
C345	BENZYL ALCOHOL	108	251	50	14778	1.106	0.921
C350	1,2-DICHLOROBENZENE	146	246	50	22308	1.084	1.391
C355	2-METHYLPHENOL	108	272	50	22359	1.198	1.394
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	268	50	33419	1.181	2.083
C365	4-METHYLPHENOL	108	290	50	23110	1.278	1.441
C370	N-NITROSODIPROPYLAMINE	70	284	50	15602	1.251	0.973
C375	HEXACHLOROETHANE	117	278	50	7918	1.225	0.494
C410	NITROBENZENE	77	291	50	26896	0.789	0.480
C415	ISOPHORONE	82	322	50	38762	0.873	0.692
C420	2-NITROPHENOL	139	328	50	11625	0.889	0.208
C425	2,4-DIMETHYLPHENOL	107	350	50	15163	0.949	0.271
C430	BENZOIC ACID	122	382	50	13033	1.035	0.233
C435	BIS(2-CHLOROETHOXY)METHANE	93	358	50	25711	0.970	0.459
C440	2,4-DICHLOROPHENOL	162	361	50	15804	0.978	0.282
C445	1,2,4-TRICHLOROBENZENE	180	367	50	15591	0.995	0.278
C450	NAPHTHALENE	128	371	50	50391	1.005	0.900
C455	4-CHLOROANILINE	127	389	50	24098	1.054	0.430
C460	HEXACHLOROBUTADIENE	225	402	50	6720	1.089	0.120
C465	P-CHLORO-M-CRESOL	107	465	50	16391	1.260	0.293
C470	2-METHYLNAPHTHALENE	142	461	50	45393	1.249	0.811
C510	HEXACHLOROCYCLOPENTADIENE	237	495	50	6864	0.826	0.199
C515	2,4,6-TRICHLOROPHENOL	196	508	50	10439	0.848	0.303
C520	2,4,5-TRICHLOROPHENOL	196	513	50	10638	0.856	0.308
525	2-CHLORONAPHTHALENE	162	523	50	32525	0.873	0.943
C530	2-NITROANILINE	65	548	50	11935	0.915	0.346
C535	DIMETHYL PHTHALATE	163	587	50	39688	0.980	1.150
C540	ACENAPHTHYLENE	152	576	50	49589	0.962	1.437
C545	3-NITROANILINE	138	605	50	11679	1.010	0.338
C550	ACENAPHTHENE	153	603	50	27888	1.007	0.808

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SV STANDARD REPORT PAGE 2

AFILE FS0526C02

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	
C555	2,4-DINITROPHENOL	184	618	50	5543	1.032	0.161
C560	4-NITROPHENOL	109	646	50	3393	1.078	0.098
C565	DIBENZOFURAN	168	625	50	45670	1.043	1.323
C570	2,4-DINITROTOLUENE	165	640	50	10103	1.068	0.293
C543	2,6-DINITROTOLUENE	165	591	50	9327	0.987	0.270
C580	DIETHYL PHTHALATE	149	687	50	39417	1.147	1.142
C585	4-CHLOROPHENYL PHENYL ETHER	204	681	50	23342	1.137	0.676
C590	FLUORENE	166	671	50	37162	1.120	1.077
C595	4-NITROANILINE	138	689	50	9852	1.150	0.285
C610	4,6-DINITRO-2-METHYLPHENOL	198	695	50	7356	0.875	0.117
C615	N-NITROSODIPHENYLAMINE	169	701	50	33125	0.883	0.526
C625	4-BROMOPHENYL PHENYL ETHER	248	745	50	11051	0.938	0.176
C630	HEXACHLOROBENZENE	284	756	50	10144	0.952	0.161
C635	PENTACHLOROPHENOL	266	786	50	7716	0.990	0.123
C640	PHENANTHRENE	178	797	50	71483	1.004	1.136
C645	ANTHRACENE	178	803	50	65410	1.011	1.039
C650	DI-N-BUTYL PHTHALATE	149	912	50	108570	1.149	1.725
C655	FLUORANTHENE	202	958	50	82006	1.207	1.303
C715	PYRENE	202	986	50	84900	0.852	1.314
C720	BUTYL BENZYL PHTHALATE	149	1113	50	50395	0.962	0.780
C725	3,3'-DICHLOROBENZIDINE	252	1165	50	20189	1.007	0.312
C730	BENZO(A)ANTHRACENE	228	1155	50	77981	0.998	1.207
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1207	50	76145	1.043	1.178
C740	CHRYSENE	228	1160	50	64104	1.003	0.992
C760	DI-N-OCTYL PHTHALATE	149	1288	50	134535	0.963	2.217
C765	BENZO(B)FLUORANTHENE	252	1295	50	76187	0.968	1.255
C770	BENZO(K)FLUORANTHENE	252	1298	50	64065	0.970	1.056
C775	BENZO(A)PYRENE	252	1330	50	60577	0.994	0.998
C780	INDENO(1,2,3-CD)PYRENE	276	1455	50	48792	1.087	0.804
C785	DIBENZO(A,H)ANTHRACENE	278	1461	50	47069	1.092	0.776
C790	BENZO(GHI)PERYLENE	276	1484	50	53280	1.109	0.878
C620	1,2-DIPHENYL-HYDRAZINE	77	701	50	47309	0.883	0.752

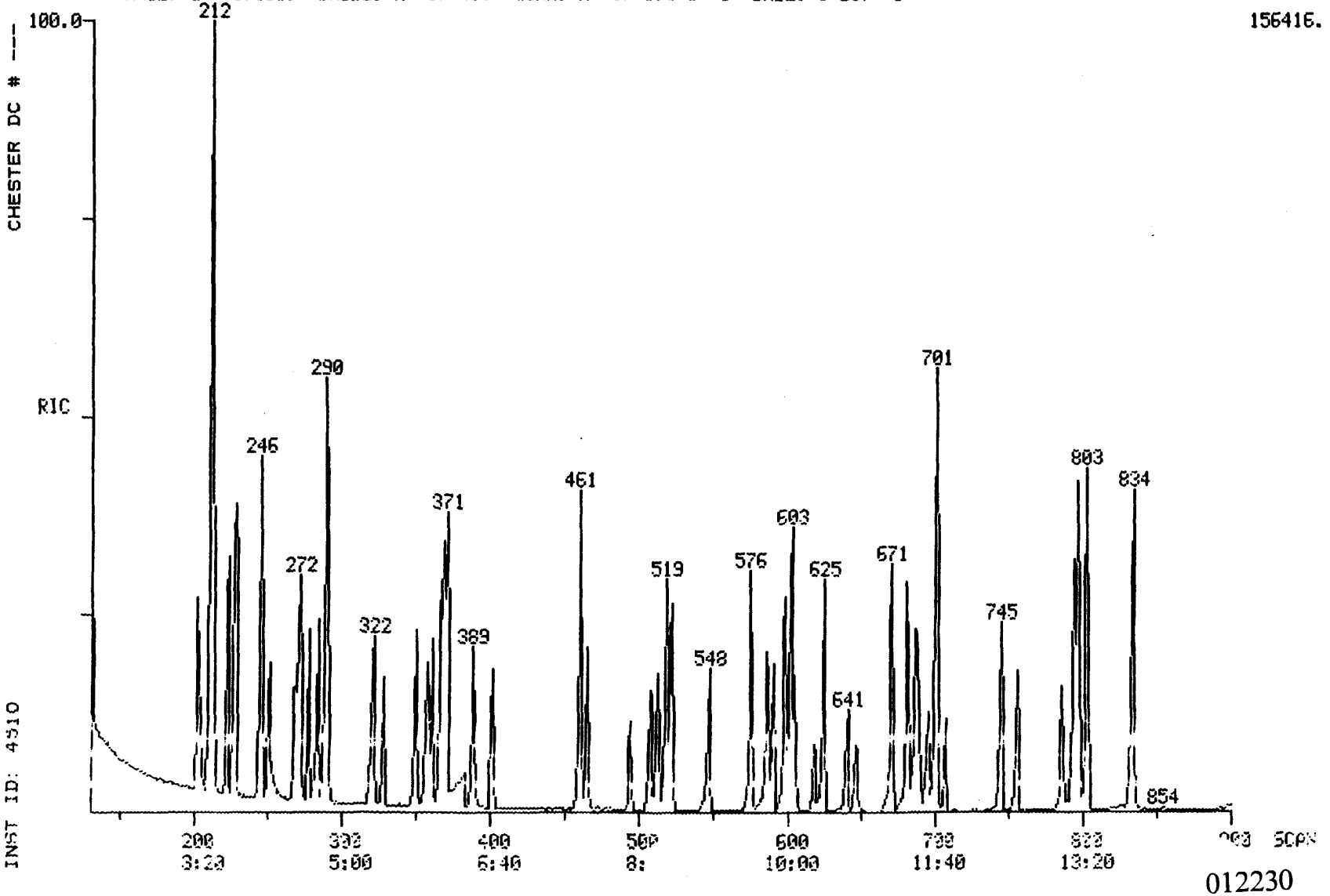
-17

RIC
05/26/93 12:59:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

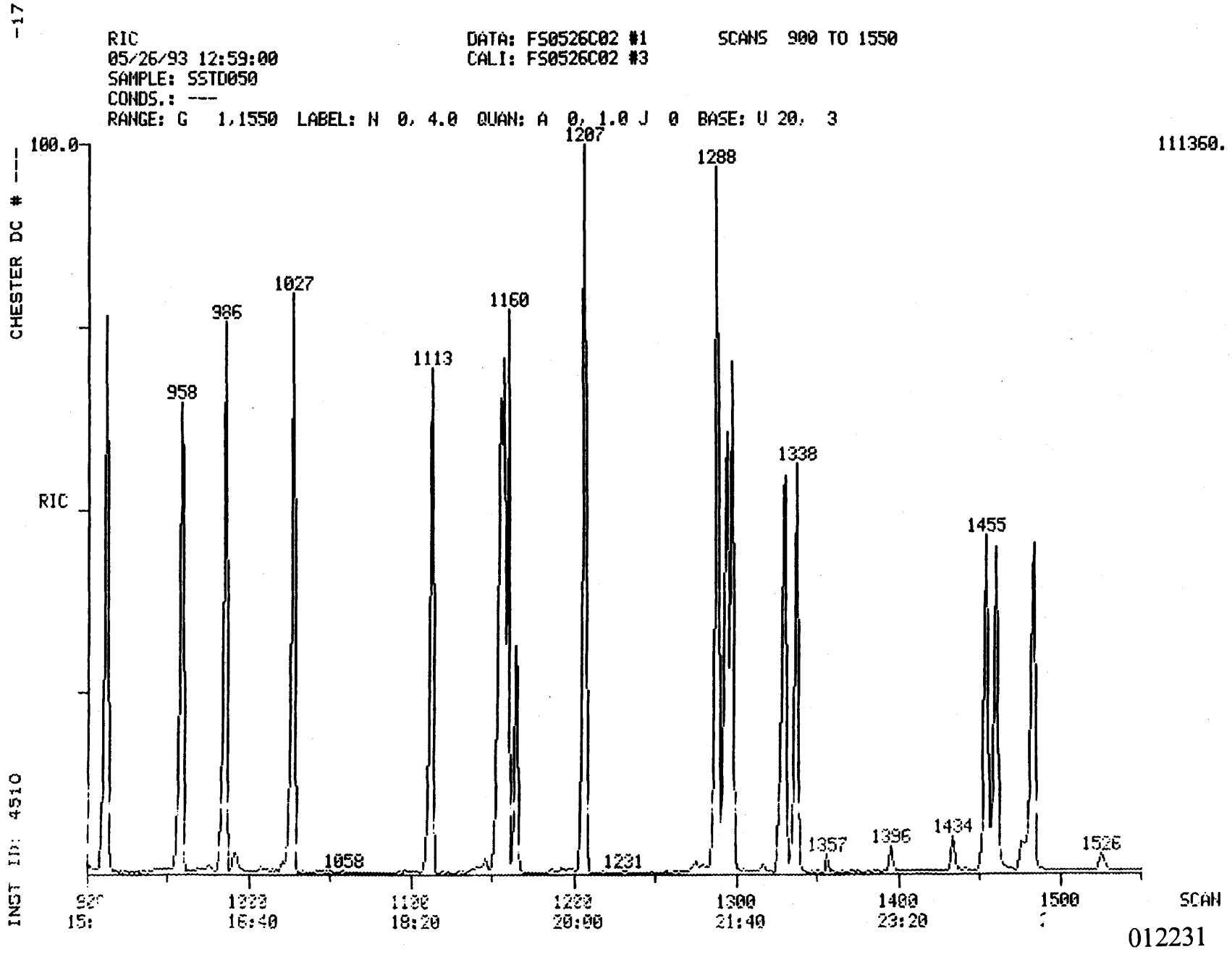
DATA: FS0526C02 #1
CALI: FS0526C02 #3

SCANS 130 TO 900

156416.



012230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RIC
05/26/93 12:59:00
SAMPLE: SSTD050
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0526C02 #1
CALI: FS0526C02 #3
SCANS 900 TO 1550
111360.
CHESTER DC # ---
INST ID: 4510
100.0
RIC
958
986
1027
1058
1113
1160
1207
1231
1288
1338
1357
1396
1434
1455
1526
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
1500
SCAN

012231

Quantitation Report File: FS0526C02

Data: FS0526C02.TI
05/26/93 12:59:00
Sample: SSTD050
ds.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012232

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012233

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	227	3:47	1	1.000	A BB	12832.	40.000 UG/L	0.95
2	136	369	6:09	2	1.000	A BB	44790.	40.000 UG/L	0.95
3	164	599	9:59	3	1.000	A BB	27607.	40.000 UG/L	0.95
4	188	794	13:14	4	1.000	A BB	50345.	40.000 UG/L	0.95
5	240	1157	19:17	5	1.000	A VB	51704.	40.000 UG/L	0.95
6	264	1338	22:18	6	1.000	A BB	48550.	40.000 UG/L	0.95
7	112	130	2:10	1	0.573	A BB	28197.	50.000 UG/L	1.19
8	99	212	3:32	1	0.934	A BB	35458.	50.000 UG/L	1.19
9	330	707	11:47	3	1.180	A BB	5464.	50.000 UG/L	1.19
10	82	289	4:49	2	0.783	A BB	21763.	50.000 UG/L	1.19
11	172	519	8:39	3	0.866	A BB	36006.	50.000 UG/L	1.19
12	244	1027	17:07	5	0.888	A VB	77990.	50.000 UG/L	1.19
13	94	213	3:33	1	0.938	A BB	29216.	50.000 UG/L	1.19
14	93	212	3:32	1	0.934	A VB	25007.	50.000 UG/L	1.19
15	128	212	3:32	1	0.934	A BB	23329.	50.000 UG/L	1.19
16	146	223	3:43	1	0.982	A BB	23747.	50.000 UG/L	1.19
17	146	228	3:48	1	1.004	A BB	24245.	50.000 UG/L	1.19
18	108	251	4:11	1	1.106	A BB	14778.	50.000 UG/L	1.19
19	146	246	4:06	1	1.084	A BB	22308.	50.000 UG/L	1.19
20	108	272	4:32	1	1.198	A BB	22359.	50.000 UG/L	1.19
21	65	268	4:28	1	1.181	A BB	33419.	50.000 UG/L	1.19
22	108	290	4:50	1	1.278	A BB	23110.	50.000 UG/L	1.19
23	70	284	4:44	1	1.251	A BV	15602.	50.000 UG/L	1.19
	117	278	4:38	1	1.225	A BB	7918.	50.000 UG/L	1.19
25	77	291	4:51	2	0.789	A BB	26896.	50.000 UG/L	1.19
26	82	322	5:22	2	0.873	A BB	38762.	50.000 UG/L	1.19
27	139	328	5:28	2	0.889	A BB	11625.	50.000 UG/L	1.19
28	107	350	5:50	2	0.949	A BB	15163.	50.000 UG/L	1.19
29	122	382	6:22	2	1.035	A BB	13033.	50.000 UG/L	1.19
30	93	358	5:58	2	0.970	A BB	25711.	50.000 UG/L	1.19
31	162	361	6:01	2	0.978	A BB	15804.	50.000 UG/L	1.19
32	180	367	6:07	2	0.995	A BB	15591.	50.000 UG/L	1.19
33	128	371	6:11	2	1.005	A BB	50391.	50.000 UG/L	1.19
34	127	389	6:29	2	1.054	A BB	24098.	50.000 UG/L	1.19
35	225	402	6:42	2	1.089	A BB	6720.	50.000 UG/L	1.19
36	107	465	7:45	2	1.260	A BB	16391.	50.000 UG/L	1.19
37	142	461	7:41	2	1.249	A BV	45393.	50.000 UG/L	1.19
38	237	495	8:15	3	0.826	A BB	6864.	50.000 UG/L	1.19
39	196	508	8:28	3	0.848	A BV	10439.	50.000 UG/L	1.19
40	196	513	8:33	3	0.856	A VB	10638.	50.000 UG/L	1.19
41	162	523	8:43	3	0.873	A BB	32525.	50.000 UG/L	1.19
42	65	548	9:08	3	0.915	A BB	11935.	50.000 UG/L	1.19
43	163	587	9:47	3	0.980	A BB	39688.	50.000 UG/L	1.19
44	152	576	9:36	3	0.962	A BB	49589.	50.000 UG/L	1.19
45	138	605	10:05	3	1.010	A BB	11679.	50.000 UG/L	1.19
46	153	603	10:03	3	1.007	A BB	27888.	50.000 UG/L	1.19
47	184	618	10:18	3	1.032	A BB	5543.	50.000 UG/L	1.19
48	109	646	10:46	3	1.078	A BB	3393.	50.000 UG/L	1.19
49	168	625	10:25	3	1.043	A BB	45670.	50.000 UG/L	1.19
	165	640	10:40	3	1.068	A BB	10103.	50.000 UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	13:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	2:10	1.00	0.573	1.00	50.00	50.00	1.758	1.758	1.00
8	3:32	1.00	0.934	1.00	50.00	50.00	2.211	2.211	1.00
9	11:47	1.00	1.180	1.00	50.00	50.00	0.158	0.158	1.00
10	4:49	1.00	0.783	1.00	50.00	50.00	0.389	0.389	1.00
11	8:39	1.00	0.866	1.00	50.00	50.00	1.043	1.043	1.00
12	17:07	1.00	0.888	1.00	50.00	50.00	1.207	1.207	1.00
13	3:33	1.00	0.938	1.00	50.00	50.00	1.821	1.821	1.00
14	3:32	1.00	0.934	1.00	50.00	50.00	1.559	1.559	1.00
15	3:32	1.00	0.934	1.00	50.00	50.00	1.454	1.454	1.00
16	3:43	1.00	0.982	1.00	50.00	50.00	1.480	1.480	1.00
17	3:48	1.00	1.004	1.00	50.00	50.00	1.512	1.512	1.00
18	4:11	1.00	1.106	1.00	50.00	50.00	0.921	0.921	1.00
19	4:06	1.00	1.084	1.00	50.00	50.00	1.391	1.391	1.00
20	4:32	1.00	1.198	1.00	50.00	50.00	1.394	1.394	1.00
21	4:28	1.00	1.181	1.00	50.00	50.00	2.083	2.083	1.00
22	4:50	1.00	1.278	1.00	50.00	50.00	1.441	1.441	1.00
23	4:44	1.00	1.251	1.00	50.00	50.00	0.973	0.973	1.00
24	4:38	1.00	1.225	1.00	50.00	50.00	0.494	0.494	1.00
25	4:51	1.00	0.789	1.00	50.00	50.00	0.480	0.480	1.00
26	5:22	1.00	0.873	1.00	50.00	50.00	0.692	0.692	1.00
27	5:28	1.00	0.889	1.00	50.00	50.00	0.208	0.208	1.00
28	5:50	1.00	0.949	1.00	50.00	50.00	0.271	0.271	1.00
29	6:22	1.00	1.035	1.00	50.00	50.00	0.233	0.233	1.00
30	5:58	1.00	0.970	1.00	50.00	50.00	0.459	0.459	1.00
31	6:01	1.00	0.978	1.00	50.00	50.00	0.282	0.282	1.00
32	6:07	1.00	0.995	1.00	50.00	50.00	0.278	0.278	1.00
33	6:11	1.00	1.005	1.00	50.00	50.00	0.900	0.900	1.00
34	6:29	1.00	1.054	1.00	50.00	50.00	0.430	0.430	1.00
35	6:42	1.00	1.089	1.00	50.00	50.00	0.120	0.120	1.00
36	7:45	1.00	1.260	1.00	50.00	50.00	0.293	0.293	1.00
37	7:41	1.00	1.249	1.00	50.00	50.00	0.811	0.811	1.00
38	8:15	1.00	0.826	1.00	50.00	50.00	0.199	0.199	1.00
39	8:28	1.00	0.848	1.00	50.00	50.00	0.303	0.303	1.00
40	8:33	1.00	0.856	1.00	50.00	50.00	0.308	0.308	1.00
41	8:43	1.00	0.873	1.00	50.00	50.00	0.943	0.943	1.00
42	9:08	1.00	0.915	1.00	50.00	50.00	0.346	0.346	1.00
43	9:47	1.00	0.980	1.00	50.00	50.00	1.150	1.150	1.00
44	9:36	1.00	0.962	1.00	50.00	50.00	1.437	1.437	1.00
45	10:05	1.00	1.010	1.00	50.00	50.00	0.338	0.338	1.00
46	10:03	1.00	1.007	1.00	50.00	50.00	0.808	0.808	1.00
47	10:18	1.00	1.032	1.00	50.00	50.00	0.161	0.161	1.00
48	10:46	1.00	1.078	1.00	50.00	50.00	0.098	0.098	1.00
49	10:25	1.00	1.043	1.00	50.00	50.00	1.323	1.323	1.00
50	10:40	1.00	1.068	1.00	50.00	50.00	0.293	0.293	1.00

012234

Quantitation Report File: FS0526C02

Data: FS0526C02.TI
05/26/93 12:59:00
Sample: SSTD050
Mds.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012235

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	591	9:51	3	0.987	A BB	9327.	50.000 UG/L	1.19
52	149	687	11:27	3	1.147	A BB	39417.	50.000 UG/L	1.19
53	204	681	11:21	3	1.137	A BB	23342.	50.000 UG/L	1.19
54	166	671	11:11	3	1.120	A BB	37162.	50.000 UG/L	1.19
55	138	689	11:29	3	1.150	A BB	9852.	50.000 UG/L	1.19
56	198	695	11:35	4	0.875	A BB	7356.	50.000 UG/L	1.19
57	169	701	11:41	4	0.883	A BB	33125.	50.000 UG/L	1.19
58	248	745	12:25	4	0.938	A BB	11051.	50.000 UG/L	1.19

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	204	756	12:36	4	0.952	A BB	10144.	50.000 UG/L	1.19
60	266	786	13:06	4	0.990	A BB	7716.	50.000 UG/L	1.19
61	178	797	13:17	4	1.004	A BV	71483.	50.000 UG/L	1.19
62	178	803	13:23	4	1.011	A VB	65410.	50.000 UG/L	1.19
63	149	912	15:12	4	1.149	A VB	108570.	50.000 UG/L	1.19
64	202	958	15:58	4	1.207	A VB	82006.	50.000 UG/L	1.19
65	202	986	16:26	5	0.852	A VB	84900.	50.000 UG/L	1.19
66	149	1113	18:33	5	0.962	A VB	50395.	50.000 UG/L	1.19
67	252	1165	19:25	5	1.007	A BB	20189.	50.000 UG/L	1.19
68	228	1155	19:15	5	0.998	A VV	77981.	50.000 UG/L	1.19
69	149	1207	20:07	5	1.043	A VB	76145.	50.000 UG/L	1.19
70	228	1160	19:20	5	1.003	A VB	64104.	50.000 UG/L	1.19
71	149	1288	21:28	6	0.963	A VB	134535.	50.000 UG/L	1.19
72	252	1295	21:35	6	0.968	M XX	76187.	50.000 UG/L	1.19
73	252	1298	21:38	6	0.970	M XX	64065.	50.000 UG/L	1.19
74	252	1330	22:10	6	0.994	A BB	60577.	50.000 UG/L	1.19
75	276	1455	24:15	6	1.087	A BV	48792.	50.000 UG/L	1.19
76	278	1461	24:21	6	1.092	A BB	47069.	50.000 UG/L	1.19
77	276	1484	24:44	6	1.109	A BB	53280.	50.000 UG/L	1.19
78	74	62	1:02	1	0.273	A BB	16552.	50.000 UG/L	1.19
79	184	992	16:32	5	0.857	M XX	8675.	50.000 UG/L	1.19
80	132	210	3:30	1	0.925	A BB	34068.	50.000 UG/L	1.19
81	152	245	4:05	1	1.079	M XX	14338.	50.000 UG/L	1.19
82	167	834	13:54	4	1.050	M XX	69297.	50.000 UG/L	1.19
83	93	202	3:22	1	0.890	M XX	36164.	50.000 UG/L	1.19
84	79	63	1:03	1	0.278	M XX	25066.	50.000 UG/L	1.19
85	77	701	11:41	4	0.883	M XX	47309.	50.000 UG/L	1.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	9:51	1.00	0.987	1.00	50.00	50.00	0.270	0.270	1.00
52	11:27	1.00	1.147	1.00	50.00	50.00	1.142	1.142	1.00
53	11:21	1.00	1.137	1.00	50.00	50.00	0.676	0.676	1.00
54	11:11	1.00	1.120	1.00	50.00	50.00	1.077	1.077	1.00
55	11:29	1.00	1.150	1.00	50.00	50.00	0.285	0.285	1.00
56	11:35	1.00	0.875	1.00	50.00	50.00	0.117	0.117	1.00
57	11:41	1.00	0.883	1.00	50.00	50.00	0.526	0.526	1.00
58	12:25	1.00	0.938	1.00	50.00	50.00	0.176	0.176	1.00
59	12:36	1.00	0.952	1.00	50.00	50.00	0.161	0.161	1.00
60	13:06	1.00	0.990	1.00	50.00	50.00	0.123	0.123	1.00
61	13:17	1.00	1.004	1.00	50.00	50.00	1.136	1.136	1.00
62	13:23	1.00	1.011	1.00	50.00	50.00	1.039	1.039	1.00
63	15:12	1.00	1.149	1.00	50.00	50.00	1.725	1.725	1.00
64	15:58	1.00	1.207	1.00	50.00	50.00	1.303	1.303	1.00
65	16:26	1.00	0.852	1.00	50.00	50.00	1.314	1.314	1.00
66	18:33	1.00	0.962	1.00	50.00	50.00	0.780	0.780	1.00
67	19:25	1.00	1.007	1.00	50.00	50.00	0.312	0.312	1.00
68	19:15	1.00	0.998	1.00	50.00	50.00	1.207	1.207	1.00
69	20:07	1.00	1.043	1.00	50.00	50.00	1.178	1.178	1.00
70	19:20	1.00	1.003	1.00	50.00	50.00	0.992	0.992	1.00
71	21:28	1.00	0.963	1.00	50.00	50.00	2.217	2.217	1.00
72	21:35	1.00	0.968	1.00	50.00	50.00	1.255	1.255	1.00
73	21:38	1.00	0.970	1.00	50.00	50.00	1.056	1.056	1.00
74	22:10	1.00	0.994	1.00	50.00	50.00	0.998	0.998	1.00
75	24:15	1.00	1.087	1.00	50.00	50.00	0.804	0.804	1.00
76	24:21	1.00	1.092	1.00	50.00	50.00	0.776	0.776	1.00
77	24:44	1.00	1.109	1.00	50.00	50.00	0.878	0.878	1.00

012236

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	1:02	1.00	0.273	1.00	50.00	50.00	1.032	1.032	1.00
79	16:32	1.00	0.857	1.00	50.00	50.00	0.134	0.134	1.00
80	3:30	1.00	0.925	1.00	50.00	50.00	2.124	2.124	1.00
1	4:05	1.00	1.079	1.00	50.00	50.00	0.894	0.894	1.00
82	13:54	1.00	1.050	1.00	50.00	50.00	1.101	1.101	1.00
83	3:22	1.00	0.890	1.00	50.00	50.00	2.255	2.255	1.00
84	1:03	1.00	0.278	1.00	50.00	50.00	1.563	1.563	1.00
85	11:41	1.00	0.883	1.00	50.00	50.00	0.752	0.752	1.00

012237

CHESTER DC # ----17

012238

SV STANDARD REPORT

MPLE ID.	SSTD020	INST. ID.:	4510
LAB ID.	FS0526C03		
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	05/26/93 13:36:00	VERFIED BY	

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	228	40	15511	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	370	40	46570	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	599	40	27635	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	795	40	54504	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1158	40	55466	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1339	40	55968	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	131	20	11370	0.575	1.466
CS45	PHENOL-D5 ** SU2 **	99	212	20	14079	0.930	1.815
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	707	20	1736	1.180	0.126
CS20	NITROBENZENE-D5 ** SU3 **	82	289	20	8090	0.781	0.347
CS25	2-FLUOROBIPHENYL ** SU4 **	172	520	20	12164	0.868	0.880
CS30	TERPHENYL-D14 ** SU6 **	244	1028	20	31699	0.888	1.143
C315	PHENOL	94	213	20	15352	0.934	1.979
C325	BIS(2-CHLOROETHYL)ETHER	93	213	20	13839	0.934	1.784
C330	2-CHLOROPHENOL	128	212	20	12037	0.930	1.552
C335	1,3-DICHLOROBENZENE	146	223	20	11438	0.978	1.475
C340	1,4-DICHLOROBENZENE	146	229	20	11782	1.004	1.519
C345	BENZYL ALCOHOL	108	251	20	5679	1.101	0.732
C350	1,2-DICHLOROBENZENE	146	247	20	10510	1.083	1.355
C355	2-METHYLPHENOL	108	273	20	10487	1.197	1.352
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	269	20	17516	1.180	2.259
C365	4-METHYLPHENOL	108	290	20	10319	1.272	1.331
C370	N-NITROSODIPROPYLAMINE	70	284	20	8216	1.246	1.059
C375	HEXACHLOROETHANE	117	279	20	3692	1.224	0.476
C410	NITROBENZENE	77	291	20	12315	0.786	0.529
C415	ISOPHORONE	82	322	20	17913	0.870	0.769
C420	2-NITROPHENOL	139	329	20	5135	0.889	0.221
C425	2,4-DIMETHYLPHENOL	107	351	20	5775	0.949	0.248
C430	BENZOIC ACID	122	377	20	4750	1.019	0.204
C435	BIS(2-CHLOROETHOXY)METHANE	93	359	20	12449	0.970	0.535
C440	2,4-DICHLOROPHENOL	162	362	20	6938	0.978	0.298
C445	1,2,4-TRICHLOROBENZENE	180	368	20	6982	0.995	0.300
C450	NAPHTHALENE	128	372	20	25973	1.005	1.115
C455	4-CHLOROANILINE	127	389	20	9616	1.051	0.413
C460	HEXACHLOROBUTADIENE	225	403	20	2919	1.089	0.125
C465	P-CHLORO-M-CRESOL	107	466	20	6768	1.259	0.291
C470	2-METHYLNAPHTHALENE	142	462	20	17322	1.249	0.744
C510	HEXACHLOROCYCLOPENTADIENE	237	496	20	2520	0.828	0.182
C515	2,4,6-TRICHLOROPHENOL	196	509	20	4297	0.850	0.311
C520	2,4,5-TRICHLOROPHENOL	196	514	20	4397	0.858	0.318
C525	2-CHLORONAPHTHALENE	162	523	20	13310	0.873	0.963
C530	2-NITROANILINE	65	548	20	4366	0.915	0.316
C535	DIMETHYL PHTHALATE	163	588	20	18421	0.982	1.333
C540	ACENAPHTHYLENE	152	577	20	22533	0.963	1.631
C545	3-NITROANILINE	138	605	20	4593	1.010	0.332
C550	ACENAPHTHENE	153	603	20	13202	1.007	0.955

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SV STANDARD REPORT PAGE 2

FAFILE FS0526C03

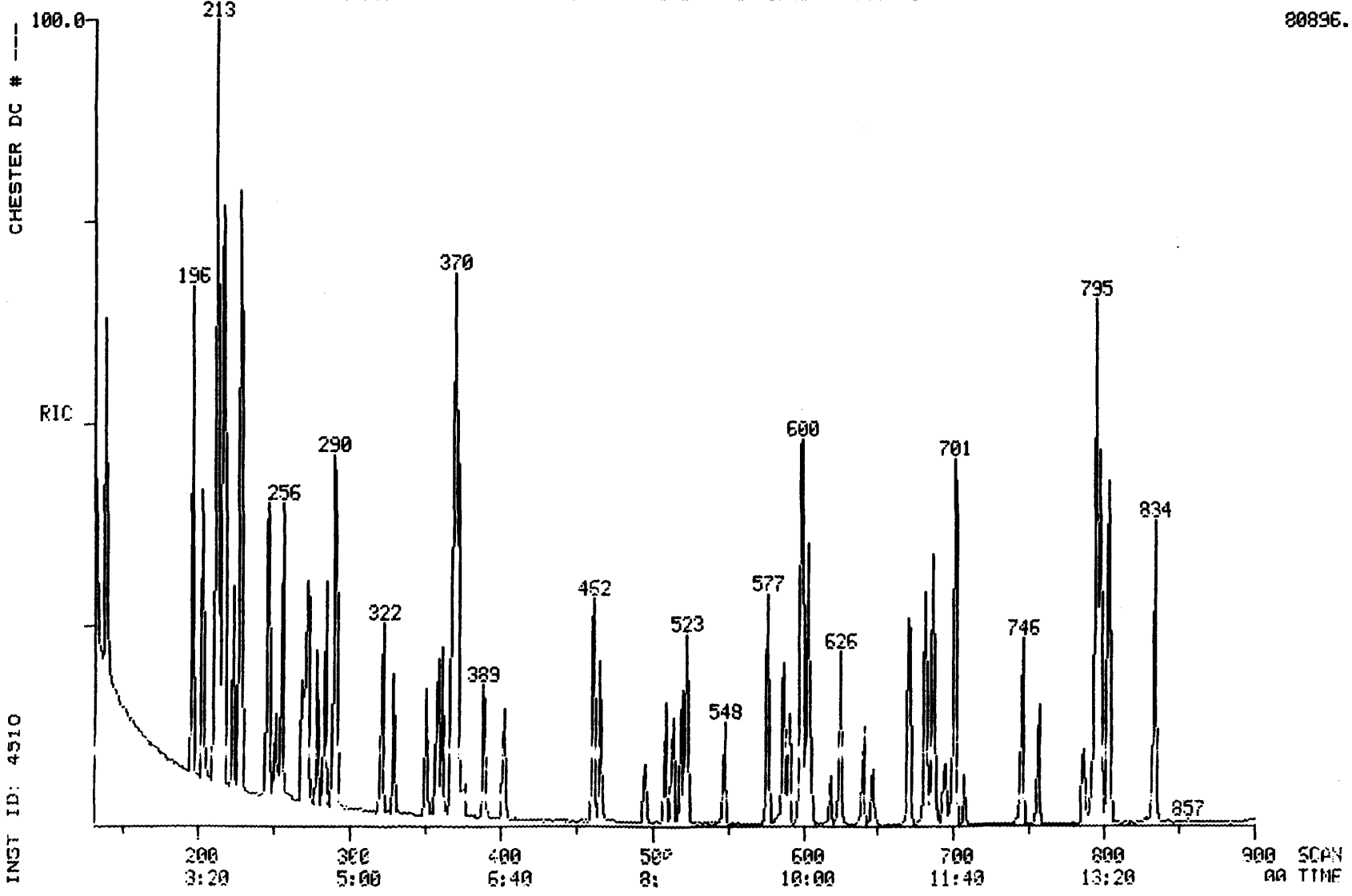
	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	
C555	2,4-DINITROPHENOL	184	619	20	1897	1.033	0.137
C560	4-NITROPHENOL	109	647	20	1339	1.080	0.097
C565	DIBENZOFURAN	168	626	20	18771	1.045	1.358
C570	2,4-DINITROTOLUENE	165	641	20	4290	1.070	0.310
C543	2,6-DINITROTOLUENE	165	591	20	3537	0.987	0.256
C580	DIETHYL PHTHALATE	149	687	20	19391	1.147	1.403
C585	4-CHLOROPHENYL PHENYL ETHER	204	682	20	11305	1.139	0.818
C590	FLUORENE	166	671	20	17473	1.120	1.265
C595	4-NITROANILINE	138	688	20	3751	1.149	0.271
C610	4,6-DINITRO-2-METHYLPHENOL	198	694	20	2777	0.873	0.102
C615	N-NITROSODIPHENYLAMINE	169	701	20	16561	0.882	0.608
C625	4-BROMOPHENYL PHENYL ETHER	248	746	20	5835	0.938	0.214
C630	HEXACHLOROBENZENE	284	757	20	4535	0.952	0.166
C635	PENTACHLOROPHENOL	266	786	20	3249	0.989	0.119
C640	PHENANTHRENE	178	798	20	36464	1.004	1.338
C645	ANTHRACENE	178	804	20	34708	1.011	1.274
C650	DI-N-BUTYL PHTHALATE	149	913	20	60194	1.148	2.209
C655	FLUORANTHENE	202	959	20	44764	1.206	1.643
C715	PYRENE	202	986	20	43537	0.851	1.570
C720	BUTYL BENZYL PHTHALATE	149	1113	20	25996	0.961	0.937
C725	3,3'-DICHLOROBENZIDINE	252	1166	20	12192	1.007	0.440
C730	BENZO(A)ANTHRACENE	228	1155	20	40933	0.997	1.476
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1208	20	39479	1.043	1.424
C740	CHRYSENE	228	1161	20	34867	1.003	1.257
C760	DI-N-OCTYL PHTHALATE	149	1289	20	70934	0.963	2.535
C765	BENZO(B)FLUORANTHENE	252	1295	20	42570	0.967	1.521
C770	BENZO(K)FLUORANTHENE	252	1298	20	32601	0.969	1.165
C775	BENZO(A)PYRENE	252	1331	20	32316	0.994	1.155
C780	INDENO(1,2,3-CD)PYRENE	276	1455	20	25182	1.087	0.900
C785	DIBENZO(A,H)ANTHRACENE	278	1462	20	24026	1.092	0.859
C790	BENZO(GHI)PERYLENE	276	1484	20	26469	1.108	0.946
C620	1,2-DIPHENYL-HYDRAZINE	77	702	20	21078	0.883	0.773

-17

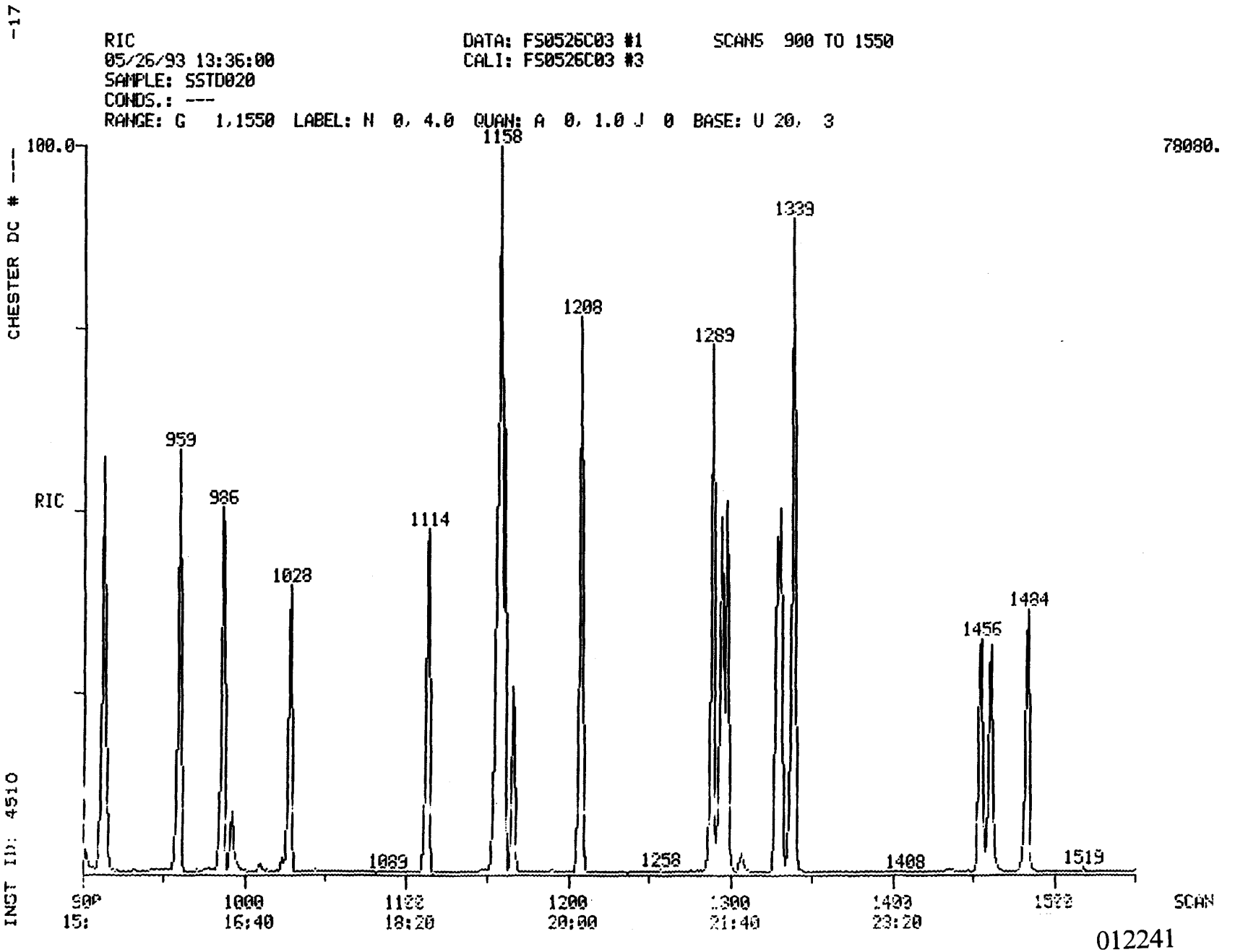
RIC
05/26/93 13:36:00
SAMPLE: SSTD020
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0526C03 #1
CALI: FS0526C03 #3

SCANS 130 TO 900



012240


-17
RIC
05/26/93 13:36:00
SAMPLE: SSTD020
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0526C03 #1
CALI: FS0526C03 #3
SCANS 900 TO 1550
CHESTER DC # ---
INST ID: 4510
100.0
RIC
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959
986
1028
1089
1114
1158
1208
1258
1289
1339
1408
1456
1484
1519
900
15:
1000
16:40
1100
18:20
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1400
23:20
1500
SCAN

012241

Quantitation Report File: FS0526C03

Data: FS0526C03.TI
05/26/93 13:36:00
Sample: SSTD020
ds.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012242

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	CI40	NAPHTHALENE-D8 ** IS2 **	
3	CI50	ACENAPHTHENE-D10 ** IS3 **	
4	CI60	PHENANTHRENE-D10 ** IS4 **	
5	CI70	CHRYSENE-D12 ** IS5 **	
6	CI75	PERYLENE-D12 ** IS6 **	
7	CS50	2-FLUOROPHENOL ** SU1 **	
8	CS45	PHENOL-D5 ** SU2 **	
9	CS55	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	CS20	NITROBENZENE-D5 ** SU3 **	
11	CS25	2-FLUOROBIPHENYL ** SU4 **	
12	CS30	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012243

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	228	3:48	1	1.000	A BB	15511.	40.000 UG/L	2.20
2	136	370	6:10	2	1.000	A BB	46570.	40.000 UG/L	2.20
3	164	599	9:59	3	1.000	A BB	27635.	40.000 UG/L	2.20
4	188	795	13:15	4	1.000	A BB	54504.	40.000 UG/L	2.20
5	240	1158	19:18	5	1.000	A VB	55466.	40.000 UG/L	2.20
6	264	1339	22:19	6	1.000	A VB	55968.	40.000 UG/L	2.20
7	112	131	2:11	1	0.575	A BB	11370.	20.000 UG/L	1.10
8	99	212	3:32	1	0.930	A BB	14079.	20.000 UG/L	1.10
9	330	707	11:47	3	1.180	A BB	1736.	20.000 UG/L	1.10
10	82	289	4:49	2	0.781	A BB	8090.	20.000 UG/L	1.10
11	172	520	8:40	3	0.868	A BB	12164.	20.000 UG/L	1.10
12	244	1028	17:08	5	0.888	A BB	31699.	20.000 UG/L	1.10
13	94	213	3:33	1	0.934	A BB	15352.	20.000 UG/L	1.10
14	93	213	3:33	1	0.934	A BB	13839.	20.000 UG/L	1.10
15	128	212	3:32	1	0.930	A BB	12037.	20.000 UG/L	1.10
16	146	223	3:43	1	0.978	A BB	11438.	20.000 UG/L	1.10
17	146	229	3:49	1	1.004	A BB	11782.	20.000 UG/L	1.10
18	108	251	4:11	1	1.101	A BB	5679.	20.000 UG/L	1.10
19	146	247	4:07	1	1.083	A BB	10510.	20.000 UG/L	1.10
20	108	273	4:33	1	1.197	A BB	10487.	20.000 UG/L	1.10
21	65	269	4:29	1	1.180	A BB	17516.	20.000 UG/L	1.10
22	108	290	4:50	1	1.272	A BB	10319.	20.000 UG/L	1.10
23	70	284	4:44	1	1.246	A BB	8216.	20.000 UG/L	1.10
24	117	279	4:39	1	1.224	A BB	3692.	20.000 UG/L	1.10
25	77	291	4:51	2	0.786	A BB	12315.	20.000 UG/L	1.10
26	82	322	5:22	2	0.870	A BB	17913.	20.000 UG/L	1.10
27	139	329	5:29	2	0.889	A BB	5135.	20.000 UG/L	1.10
28	107	351	5:51	2	0.949	A BB	5775.	20.000 UG/L	1.10
29	122	377	6:17	2	1.019	A BB	4750.	20.000 UG/L	1.10
30	93	359	5:59	2	0.970	A BB	12449.	20.000 UG/L	1.10
31	162	362	6:02	2	0.978	A BB	6938.	20.000 UG/L	1.10
32	180	368	6:08	2	0.995	A BB	6982.	20.000 UG/L	1.10
33	128	372	6:12	2	1.005	A BB	25973.	20.000 UG/L	1.10
34	127	389	6:29	2	1.051	A BB	9616.	20.000 UG/L	1.10
35	225	403	6:43	2	1.089	A BB	2919.	20.000 UG/L	1.10
36	107	466	7:46	2	1.259	A BB	6768.	20.000 UG/L	1.10
37	142	462	7:42	2	1.249	A BV	17322.	20.000 UG/L	1.10
38	237	496	8:16	3	0.828	A BB	2520.	20.000 UG/L	1.10
39	196	509	8:29	3	0.850	A BV	4297.	20.000 UG/L	1.10
40	196	514	8:34	3	0.858	A VB	4397.	20.000 UG/L	1.10
41	162	523	8:43	3	0.873	A BB	13310.	20.000 UG/L	1.10
42	65	548	9:08	3	0.915	A BB	4366.	20.000 UG/L	1.10
43	163	588	9:48	3	0.982	A BB	18421.	20.000 UG/L	1.10
44	152	577	9:37	3	0.963	A BB	22533.	20.000 UG/L	1.10
45	138	605	10:05	3	1.010	A BB	4593.	20.000 UG/L	1.10
46	153	603	10:03	3	1.007	A BB	13202.	20.000 UG/L	1.10
47	184	619	10:19	3	1.033	A BB	1897.	20.000 UG/L	1.10
48	109	647	10:47	3	1.080	A BB	1339.	20.000 UG/L	1.10
49	168	626	10:26	3	1.045	A BB	18771.	20.000 UG/L	1.10
50	165	641	10:41	3	1.070	A BB	4290.	20.000 UG/L	1.10

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	9:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
	13:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:11	1.00	0.575	1.00	20.00	20.00	1.466	1.466	1.00
8	3:32	1.00	0.930	1.00	20.00	20.00	1.815	1.815	1.00
9	11:47	1.00	1.180	1.00	20.00	20.00	0.126	0.126	1.00
10	4:49	1.00	0.781	1.00	20.00	20.00	0.347	0.347	1.00
11	8:40	1.00	0.868	1.00	20.00	20.00	0.880	0.880	1.00
12	17:08	1.00	0.888	1.00	20.00	20.00	1.143	1.143	1.00
13	3:33	1.00	0.934	1.00	20.00	20.00	1.979	1.979	1.00
14	3:33	1.00	0.934	1.00	20.00	20.00	1.784	1.784	1.00
15	3:32	1.00	0.930	1.00	20.00	20.00	1.552	1.552	1.00
16	3:43	1.00	0.978	1.00	20.00	20.00	1.475	1.475	1.00
17	3:49	1.00	1.004	1.00	20.00	20.00	1.519	1.519	1.00
18	4:11	1.00	1.101	1.00	20.00	20.00	0.732	0.732	1.00
19	4:07	1.00	1.083	1.00	20.00	20.00	1.355	1.355	1.00
20	4:33	1.00	1.197	1.00	20.00	20.00	1.352	1.352	1.00
21	4:29	1.00	1.180	1.00	20.00	20.00	2.259	2.259	1.00
22	4:50	1.00	1.272	1.00	20.00	20.00	1.331	1.331	1.00
23	4:44	1.00	1.246	1.00	20.00	20.00	1.059	1.059	1.00
24	4:39	1.00	1.224	1.00	20.00	20.00	0.476	0.476	1.00
25	4:51	1.00	0.786	1.00	20.00	20.00	0.529	0.529	1.00
26	5:22	1.00	0.870	1.00	20.00	20.00	0.769	0.769	1.00
27	5:29	1.00	0.889	1.00	20.00	20.00	0.221	0.221	1.00
28	5:51	1.00	0.949	1.00	20.00	20.00	0.248	0.248	1.00
	6:17	1.00	1.019	1.00	20.00	20.00	0.204	0.204	1.00
30	5:59	1.00	0.970	1.00	20.00	20.00	0.535	0.535	1.00
31	6:02	1.00	0.978	1.00	20.00	20.00	0.298	0.298	1.00
32	6:08	1.00	0.995	1.00	20.00	20.00	0.300	0.300	1.00
33	6:12	1.00	1.005	1.00	20.00	20.00	1.115	1.115	1.00
34	6:29	1.00	1.051	1.00	20.00	20.00	0.413	0.413	1.00
35	6:43	1.00	1.089	1.00	20.00	20.00	0.125	0.125	1.00
36	7:46	1.00	1.259	1.00	20.00	20.00	0.291	0.291	1.00
37	7:42	1.00	1.249	1.00	20.00	20.00	0.744	0.744	1.00
38	8:16	1.00	0.828	1.00	20.00	20.00	0.182	0.182	1.00
39	8:29	1.00	0.850	1.00	20.00	20.00	0.311	0.311	1.00
40	8:34	1.00	0.858	1.00	20.00	20.00	0.318	0.318	1.00
41	8:43	1.00	0.873	1.00	20.00	20.00	0.963	0.963	1.00
42	9:08	1.00	0.915	1.00	20.00	20.00	0.316	0.316	1.00
43	9:48	1.00	0.982	1.00	20.00	20.00	1.333	1.333	1.00
44	9:37	1.00	0.963	1.00	20.00	20.00	1.631	1.631	1.00
45	10:05	1.00	1.010	1.00	20.00	20.00	0.332	0.332	1.00
46	10:03	1.00	1.007	1.00	20.00	20.00	0.955	0.955	1.00
47	10:19	1.00	1.033	1.00	20.00	20.00	0.137	0.137	1.00
48	10:47	1.00	1.080	1.00	20.00	20.00	0.097	0.097	1.00
49	10:26	1.00	1.045	1.00	20.00	20.00	1.358	1.358	1.00
50	10:41	1.00	1.070	1.00	20.00	20.00	0.310	0.310	1.00

012244

Quantitation Report File: FS0526C03

Data: FS0526C03.TI
05/26/93 13:36:00
Sample: SSTD020
Ids.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012245

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
[illegible]	C730	BENZO(A)ANTHRACENE	5B
[illegible]	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	591	9:51	3	0.987	A BB	3537.	20.000 UG/L	1.10
52	149	687	11:27	3	1.147	A BB	19391.	20.000 UG/L	1.10
53	204	682	11:22	3	1.139	A BB	11305.	20.000 UG/L	1.10
54	166	671	11:11	3	1.120	A BB	17473.	20.000 UG/L	1.10
55	138	688	11:28	3	1.149	A BB	3751.	20.000 UG/L	1.10
56	198	694	11:34	4	0.873	A BB	2777.	20.000 UG/L	1.10
	169	701	11:41	4	0.882	A BB	16561.	20.000 UG/L	1.10
58	248	746	12:26	4	0.938	A BB	5835.	20.000 UG/L	1.10

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	284	757	12:37	4	0.952	A BB	4535.	20.000 UG/L	1.10
60	266	786	13:06	4	0.989	A BB	3249.	20.000 UG/L	1.10
61	178	798	13:18	4	1.004	A BV	36464.	20.000 UG/L	1.10
62	178	804	13:24	4	1.011	A VB	34708.	20.000 UG/L	1.10
63	149	913	15:13	4	1.148	A BB	60194.	20.000 UG/L	1.10
64	202	959	15:59	4	1.206	A BB	44764.	20.000 UG/L	1.10
65	202	986	16:26	5	0.851	A VB	43537.	20.000 UG/L	1.10
66	149	1113	18:33	5	0.961	A BB	25996.	20.000 UG/L	1.10
67	252	1166	19:26	5	1.007	A BB	12192.	20.000 UG/L	1.10
68	228	1155	19:15	5	0.997	A BV	40933.	20.000 UG/L	1.10
69	149	1208	20:08	5	1.043	A BB	39479.	20.000 UG/L	1.10
70	228	1161	19:21	5	1.003	A VB	34867.	20.000 UG/L	1.10
71	149	1289	21:29	6	0.963	A VB	70934.	20.000 UG/L	1.10
72	252	1295	21:35	6	0.967	M XX	42570.	20.000 UG/L	1.10
73	252	1298	21:38	6	0.969	M XX	32601.	20.000 UG/L	1.10
74	252	1331	22:11	6	0.994	A BB	32316.	20.000 UG/L	1.10
75	276	1455	24:15	6	1.087	A BV	25182.	20.000 UG/L	1.10
76	278	1462	24:22	6	1.092	A BB	24026.	20.000 UG/L	1.10
77	276	1484	24:44	6	1.108	A BB	26469.	20.000 UG/L	1.10
78	74	63	1:03	1	0.276	A BB	13537.	20.000 UG/L	1.10
79	184	992	16:32	5	0.857	A BB	11839.	20.000 UG/L	1.10
80	182	211	3:31	1	0.925	A BB	13523.	20.000 UG/L	1.10
81	182	246	4:06	1	1.079	M XX	5525.	20.000 UG/L	1.10
82	167	834	13:54	4	1.049	M XX	33791.	20.000 UG/L	1.10
83	93	203	3:23	1	0.890	M XX	17581.	20.000 UG/L	1.10
84	79	63	1:03	1	0.276	M XX	23526.	20.000 UG/L	1.10
85	77	702	11:42	4	0.883	M XX	21078.	20.000 UG/L	1.10

	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
[illegible]	9:51	1.00	0.987	1.00	20.00	20.00	0.256	0.256	1.00
52	11:27	1.00	1.147	1.00	20.00	20.00	1.403	1.403	1.00
53	11:22	1.00	1.139	1.00	20.00	20.00	0.818	0.818	1.00
54	11:11	1.00	1.120	1.00	20.00	20.00	1.265	1.265	1.00
55	11:28	1.00	1.149	1.00	20.00	20.00	0.271	0.271	1.00
56	11:34	1.00	0.873	1.00	20.00	20.00	0.102	0.102	1.00
57	11:41	1.00	0.882	1.00	20.00	20.00	0.608	0.608	1.00
58	12:26	1.00	0.938	1.00	20.00	20.00	0.214	0.214	1.00
59	12:37	1.00	0.952	1.00	20.00	20.00	0.166	0.166	1.00
60	13:06	1.00	0.989	1.00	20.00	20.00	0.119	0.119	1.00
61	13:18	1.00	1.004	1.00	20.00	20.00	1.338	1.338	1.00
62	13:24	1.00	1.011	1.00	20.00	20.00	1.274	1.274	1.00
63	15:13	1.00	1.148	1.00	20.00	20.00	2.209	2.209	1.00
64	15:59	1.00	1.206	1.00	20.00	20.00	1.643	1.643	1.00
65	16:26	1.00	0.851	1.00	20.00	20.00	1.570	1.570	1.00
66	18:33	1.00	0.961	1.00	20.00	20.00	0.937	0.937	1.00
67	19:26	1.00	1.007	1.00	20.00	20.00	0.440	0.440	1.00
68	19:15	1.00	0.997	1.00	20.00	20.00	1.476	1.476	1.00
69	20:08	1.00	1.043	1.00	20.00	20.00	1.424	1.424	1.00
70	19:21	1.00	1.003	1.00	20.00	20.00	1.257	1.257	1.00
71	21:29	1.00	0.963	1.00	20.00	20.00	2.535	2.535	1.00
72	21:35	1.00	0.967	1.00	20.00	20.00	1.521	1.521	1.00
73	21:38	1.00	0.969	1.00	20.00	20.00	1.165	1.165	1.00
74	22:11	1.00	0.994	1.00	20.00	20.00	1.155	1.155	1.00
75	24:15	1.00	1.087	1.00	20.00	20.00	0.900	0.900	1.00
[illegible]	24:22	1.00	1.092	1.00	20.00	20.00	0.859	0.859	1.00
77	24:44	1.00	1.108	1.00	20.00	20.00	0.946	0.946	1.00

012246

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
78	1:03	1.00	0.276	1.00	20.00	20.00	1.746	1.746	1.00
79	16:32	1.00	0.857	1.00	20.00	20.00	0.427	0.427	1.00
80	3:31	1.00	0.925	1.00	20.00	20.00	1.744	1.744	1.00
	4:06	1.00	1.079	1.00	20.00	20.00	0.712	0.712	1.00
82	13:54	1.00	1.049	1.00	20.00	20.00	1.240	1.240	1.00
83	3:23	1.00	0.890	1.00	20.00	20.00	2.267	2.267	1.00
84	1:03	1.00	0.276	1.00	20.00	20.00	3.033	3.033	1.00
85	11:42	1.00	0.883	1.00	20.00	20.00	0.773	0.773	1.00

012247

CHESTER DC # ----17

012248

STANDARD REPORT

SAMPLE ID. SSTD080 INST. ID.: 4510

LAB ID. FS0526C04

CLIENT CHESTER ANALYST JDD

DATE INJECTED 05/26/93 14:12:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	230	40	25439	1.000	0.99
CI40	NAPHTHALENE-D8 ** IS2 **	136	373	40	84576	1.000	0.99
CI50	ACENAPHTHENE-D10 ** IS3 **	164	602	40	34344	1.000	0.99
CI60	PHENANTHRENE-D10 ** IS4 **	188	798	40	61564	1.000	0.99
CI70	CHRYSENE-D12 ** IS5 **	240	1161	40	68186	1.000	0.99
CI75	PERYLENE-D12 ** IS6 **	264	1341	40	63530	1.000	0.99
CS50	2-FLUOROPHENOL ** SU1 **	112	133	80	86352	0.578	1.69
CS45	PHENOL-D5 ** SU2 **	99	217	80	102123	0.943	2.00
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	711	80	10369	1.181	0.15
CS20	NITROBENZENE-D5 ** SU3 **	82	293	80	67893	0.786	0.40
CS25	2-FLUOROBIPHENYL ** SU4 **	172	523	80	76853	0.869	1.11
CS30	TERPHENYL-D14 ** SU6 **	244	1030	80	170721	0.887	1.25
C315	PHENOL	94	218	80	91436	0.948	1.79
C325	BIS(2-CHLOROETHYL)ETHER	93	217	80	70907	0.943	1.39
C330	2-CHLOROPHENOL	128	216	80	70310	0.939	1.38
C335	1,3-DICHLOROBENZENE	146	226	80	74653	0.983	1.46
C340	1,4-DICHLOROBENZENE	146	232	80	78951	1.009	1.55
C345	BENZYL ALCOHOL	108	255	80	43353	1.109	0.85
C350	1,2-DICHLOROBENZENE	146	250	80	74199	1.087	1.45
C355	2-METHYLPHENOL	108	276	80	74461	1.200	1.46
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	272	80	100718	1.183	1.98
C365	4-METHYLPHENOL	108	294	80	77287	1.278	1.51
C370	N-NITROSODIPROPYLAMINE	70	290	80	48835	1.261	0.96
C375	HEXACHLOROETHANE	117	281	80	26687	1.222	0.52
C410	NITROBENZENE	77	295	80	90462	0.791	0.53
C415	ISOPHORONE	82	328	80	130910	0.879	0.77
C420	2-NITROPHENOL	139	332	80	39851	0.890	0.23
C425	2,4-DIMETHYLPHENOL	107	354	80	48387	0.949	0.28
C430	BENZOIC ACID	122	396	80	29322	1.062	0.17
C435	BIS(2-CHLOROETHOXY)METHANE	93	363	80	80667	0.973	0.47
C440	2,4-DICHLOROPHENOL	162	366	80	51642	0.981	0.30
C445	1,2,4-TRICHLOROBENZENE	180	370	80	51595	0.992	0.30
C450	NAPHTHALENE	128	375	80	181251	1.005	1.07
C455	4-CHLOROANILINE	127	392	80	91578	1.051	0.541
C460	HEXACHLOROBUTADIENE	225	404	80	21786	1.083	0.12
C465	P-CHLORO-M-CRESOL	107	469	80	38791	1.257	0.22
C470	2-METHYLNAPHTHALENE	142	464	80	121646	1.244	0.71
C510	HEXACHLOROCYCLOPENTADIENE	237	497	80	15964	0.826	0.23
C515	2,4,6-TRICHLOROPHENOL	196	512	80	28287	0.850	0.41
C520	2,4,5-TRICHLOROPHENOL	196	516	80	18828	0.857	0.274
C525	2-CHLORONAPHTHALENE	162	526	80	73794	0.874	1.074
C530	2-NITROANILINE	65	552	80	27992	0.917	0.40
C535	DIMETHYL PHTHALATE	163	592	80	78232	0.983	1.139
C540	ACENAPHTHYLENE	152	580	80	123231	0.963	1.794
C545	3-NITROANILINE	138	610	80	27528	1.013	0.401
C550	ACENAPHTHENE	153	606	80	64736	1.007	0.942

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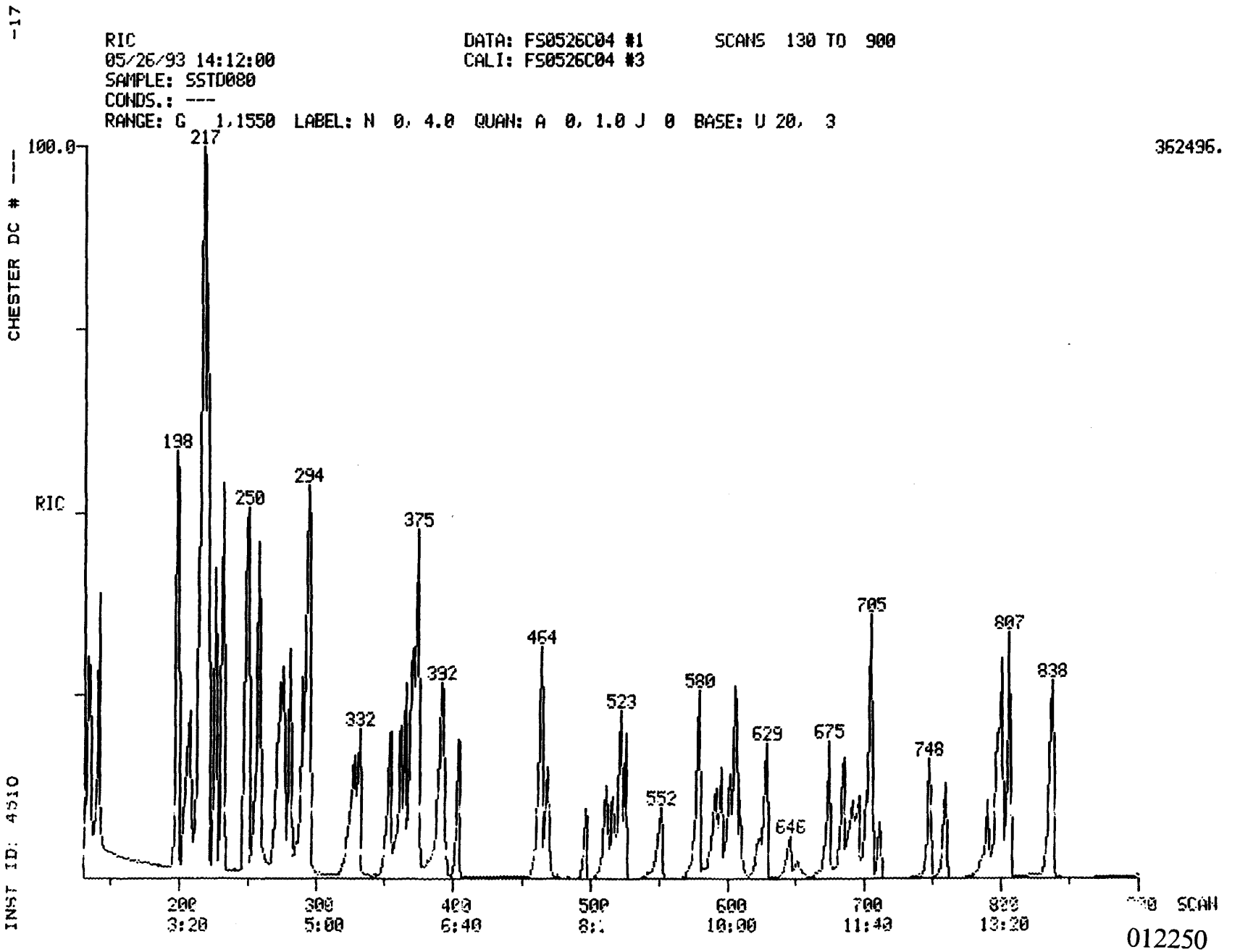
SV STANDARD REPORT PAGE 2

TAFILE FS0526C04

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	
C555	2,4-DINITROPHENOL	184	623	80	10579	1.035	0.154
C560	4-NITROPHENOL	109	651	80	5088	1.081	0.074
C565	DIBENZOFURAN	168	629	80	92500	1.045	1.347
C570	2,4-DINITROTOLUENE	165	645	80	17800	1.071	0.259
C543	2,6-DINITROTOLUENE	165	596	80	22282	0.990	0.324
C580	DIETHYL PHTHALATE	149	691	80	61220	1.148	0.891
C585	4-CHLOROPHENYL PHENYL ETHER	204	684	80	41501	1.136	0.604
C590	FLUORENE	166	675	80	71512	1.121	1.041
C595	4-NITROANILINE	138	696	80	23421	1.156	0.341
C610	4,6-DINITRO-2-METHYLPHENOL	198	701	80	14248	0.878	0.116
C615	N-NITROSODIPHENYLAMINE	169	705	80	59130	0.883	0.480
C625	4-BROMOPHENYL PHENYL ETHER	248	748	80	24216	0.937	0.197
C630	HEXACHLOROBENZENE	284	760	80	23519	0.952	0.191
C635	PENTACHLOROPHENOL	266	790	80	17848	0.990	0.145
C640	PHENANTHRENE	178	801	80	181150	1.004	1.471
C645	ANTHRACENE	178	807	80	148908	1.011	1.209
C650	DI-N-BUTYL PHTHALATE	149	915	80	246232	1.147	1.999
C655	FLUORANTHENE	202	962	80	200296	1.206	1.627
C715	PYRENE	202	990	80	212533	0.853	1.558
C720	BUTYL BENZYL PHTHALATE	149	1116	80	102921	0.961	0.755
C725	3,3'-DICHLOROBENZIDINE	252	1169	80	57796	1.007	0.424
C730	BENZO(A)ANTHRACENE	228	1159	80	204097	0.998	1.497
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1210	80	150501	1.042	1.104
C740	CHRYSENE	228	1164	80	135902	1.003	0.997
C760	DI-N-OCTYL PHTHALATE	149	1291	80	268514	0.963	2.113
C765	BENZO(B)FLUORANTHENE	252	1299	80	184423	0.969	1.451
C770	BENZO(K)FLUORANTHENE	252	1303	80	118474	0.972	0.932
C775	BENZO(A)PYRENE	252	1335	80	139193	0.996	1.095
C780	INDENO(1,2,3-CD)PYRENE	276	1460	80	119967	1.089	0.944
C785	DIBENZO(A,H)ANTHRACENE	278	1466	80	110740	1.093	0.872
C790	BENZO(GHI)PERYLENE	276	1489	80	120311	1.110	0.947
C620	1,2-DIPHENYL-HYDRAZINE	77	705	80	100299	0.883	0.815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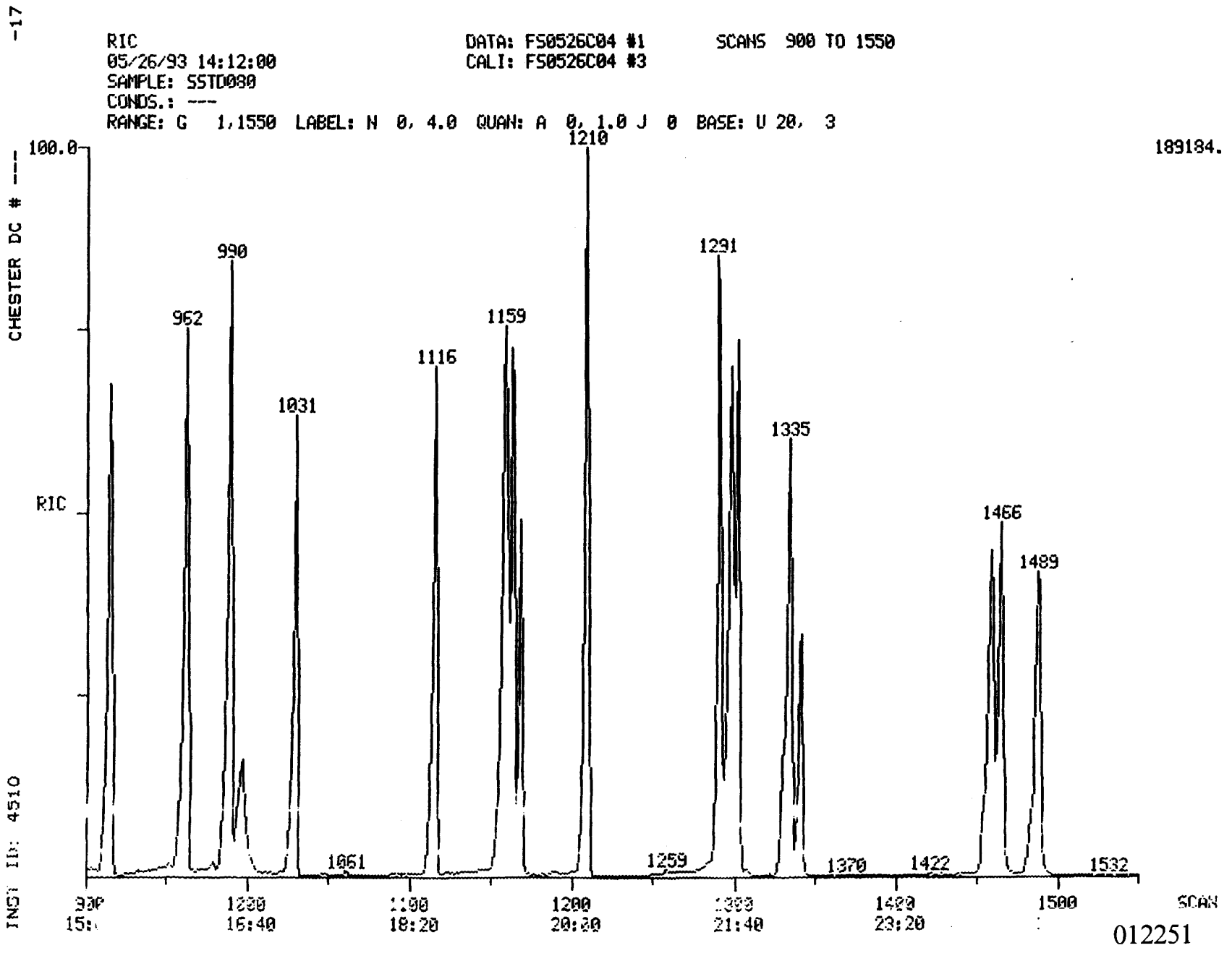
05/26/93 14:12:00
SAMPLE: SSTD080
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0526C04 #1
CALI: FS0526C04 #3
SCANS 130 TO 900
362496.
CHESTER DC # ---
INST ID: 4510
100.0
RIC
217
198
250
294
375
392
332
464
523
552
580
629
646
675
705
748
807
838
200
3:20
300
5:00
400
6:40
500
8:
600
10:00
700
11:40
800
13:20
SCAN

012250


-17
RIC
05/26/93 14:12:00
SAMPLE: SSTD080
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0526C04 #1
CALI: FS0526C04 #3
SCANS 900 TO 1550
189184.
CHESTER DC # ---
INST ID: 4510
100.0
RIC
962
990
1031
1061
1116
1159
1210
1259
1291
1335
1370
1422
1466
1489
1532
900
1000
1100
1200
1300
1400
1500
SCAN
16:40
18:20
20:00
21:40
23:20
012251

Quantitation Report File: FS0526C04

Data: FS0526C04.TI
05/26/93 14:12:00
Sample: SSTD080
Ids.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012252

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C550	2-FLUOROPHENOL ** SU1 **	
8	C545	PHENOL-D5 ** SU2 **	
9	C555	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C520	NITROBENZENE-D5 ** SU3 **	
11	C525	2-FLUOROBIPHENYL ** SU4 **	
12	C530	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012253

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	230	3:50	1	1.000	A BB	25439.	40.000 UG/L	0.61
2	136	373	6:13	2	1.000	A BB	84576.	40.000 UG/L	0.61
3	164	602	10:02	3	1.000	A VB	34344.	40.000 UG/L	0.61
4	188	798	13:18	4	1.000	A VB	61564.	40.000 UG/L	0.61
5	240	1161	19:21	5	1.000	A BB	68186.	40.000 UG/L	0.61
6	264	1341	22:21	6	1.000	A VB	63530.	40.000 UG/L	0.61
7	112	133	2:13	1	0.578	A BB	86352.	80.000 UG/L	1.22
8	79	217	3:37	1	0.943	A BV	102123.	80.000 UG/L	1.22
9	330	711	11:51	3	1.181	A BB	10369.	80.000 UG/L	1.22
10	82	293	4:53	2	0.786	A BB	67893.	80.000 UG/L	1.22
11	172	523	8:43	3	0.869	A BB	76853.	80.000 UG/L	1.22
12	244	1030	17:10	5	0.887	A BB	170721.	80.000 UG/L	1.22
13	74	218	3:38	1	0.948	A VB	91436.	80.000 UG/L	1.22
14	73	217	3:37	1	0.943	A VB	70907.	80.000 UG/L	1.22
15	128	216	3:36	1	0.939	A BB	70310.	80.000 UG/L	1.22
16	146	226	3:46	1	0.983	A BV	74653.	80.000 UG/L	1.22
17	146	232	3:52	1	1.009	A VB	78951.	80.000 UG/L	1.22
18	108	255	4:15	1	1.109	M XX	43353.	80.000 UG/L	1.22
19	146	250	4:10	1	1.087	A BB	74199.	80.000 UG/L	1.22
20	108	276	4:36	1	1.200	A BB	74461.	80.000 UG/L	1.22
21	45	272	4:32	1	1.183	A BB	100718.	80.000 UG/L	1.22
22	108	294	4:54	1	1.278	A BB	77287.	80.000 UG/L	1.22
23	70	290	4:50	1	1.261	M XX	48835.	80.000 UG/L	1.22
	117	281	4:41	1	1.222	A BB	26687.	80.000 UG/L	1.22
25	77	295	4:55	2	0.791	A BB	90461.	80.000 UG/L	1.22
26	82	328	5:28	2	0.879	A BB	130910.	80.000 UG/L	1.22
27	139	332	5:32	2	0.890	A BB	39851.	80.000 UG/L	1.22
28	107	354	5:54	2	0.949	A BB	48387.	80.000 UG/L	1.22
29	122	396	6:36	2	1.062	A BB	29322.	80.000 UG/L	1.22
30	73	363	6:03	2	0.973	A BB	80667.	80.000 UG/L	1.22
31	162	366	6:06	2	0.981	A BB	51642.	80.000 UG/L	1.22
32	180	370	6:10	2	0.992	A BB	51595.	80.000 UG/L	1.22
33	128	375	6:15	2	1.005	A BB	181251.	80.000 UG/L	1.22
34	127	392	6:32	2	1.051	A BB	91578.	80.000 UG/L	1.22
35	225	404	6:44	2	1.083	A BB	21786.	80.000 UG/L	1.22
36	107	469	7:49	2	1.257	A BB	38791.	80.000 UG/L	1.22
37	142	464	7:44	2	1.244	A BV	121646.	80.000 UG/L	1.22
38	237	497	8:17	3	0.826	A BB	15964.	80.000 UG/L	1.22
39	196	512	8:32	3	0.850	A BV	28287.	80.000 UG/L	1.22
40	196	516	8:36	3	0.857	A VB	18828.	80.000 UG/L	1.22
41	162	526	8:46	3	0.874	A VB	73794.	80.000 UG/L	1.22
42	65	552	9:12	3	0.917	A BB	27992.	80.000 UG/L	1.22
43	163	592	9:52	3	0.983	A BV	78232.	80.000 UG/L	1.22
44	152	580	9:40	3	0.963	A BB	123231.	80.000 UG/L	1.22
45	138	610	10:10	3	1.013	A BB	27528.	80.000 UG/L	1.22
46	153	606	10:06	3	1.007	A BB	64736.	80.000 UG/L	1.22
47	184	623	10:23	3	1.035	A BB	10579.	80.000 UG/L	1.22
48	109	651	10:51	3	1.081	A BB	5088.	80.000 UG/L	1.22
49	168	629	10:29	3	1.045	A BB	92500.	80.000 UG/L	1.22
	165	645	10:45	3	1.071	M XX	17800.	80.000 UG/L	1.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	3:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:13	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	10:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	13:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	2:13	1.00	0.578	1.00	80.00	80.00	1.697	1.697	1.00
8	3:37	1.00	0.943	1.00	80.00	80.00	2.007	2.007	1.00
9	11:51	1.00	1.181	1.00	80.00	80.00	0.151	0.151	1.00
10	4:53	1.00	0.786	1.00	80.00	80.00	0.401	0.401	1.00
11	8:43	1.00	0.869	1.00	80.00	80.00	1.119	1.119	1.00
12	17:10	1.00	0.887	1.00	80.00	80.00	1.252	1.252	1.00
13	3:38	1.00	0.948	1.00	80.00	80.00	1.797	1.797	1.00
14	3:37	1.00	0.943	1.00	80.00	80.00	1.394	1.394	1.00
15	3:36	1.00	0.939	1.00	80.00	80.00	1.382	1.382	1.00
16	3:46	1.00	0.983	1.00	80.00	80.00	1.467	1.467	1.00
17	3:52	1.00	1.009	1.00	80.00	80.00	1.552	1.552	1.00
18	4:15	1.00	1.109	1.00	80.00	80.00	0.852	0.852	1.00
19	4:10	1.00	1.087	1.00	80.00	80.00	1.458	1.458	1.00
20	4:36	1.00	1.200	1.00	80.00	80.00	1.464	1.464	1.00
21	4:32	1.00	1.183	1.00	80.00	80.00	1.980	1.980	1.00
22	4:54	1.00	1.278	1.00	80.00	80.00	1.519	1.519	1.00
23	4:50	1.00	1.261	1.00	80.00	80.00	0.960	0.960	1.00
24	4:41	1.00	1.222	1.00	80.00	80.00	0.525	0.525	1.00
25	4:55	1.00	0.791	1.00	80.00	80.00	0.535	0.535	1.00
26	5:28	1.00	0.879	1.00	80.00	80.00	0.774	0.774	1.00
27	5:32	1.00	0.890	1.00	80.00	80.00	0.236	0.236	1.00
28	5:54	1.00	0.949	1.00	80.00	80.00	0.286	0.286	1.00
29	6:36	1.00	1.062	1.00	80.00	80.00	0.173	0.173	1.00
30	6:03	1.00	0.973	1.00	80.00	80.00	0.477	0.477	1.00
31	6:06	1.00	0.981	1.00	80.00	80.00	0.305	0.305	1.00
32	6:10	1.00	0.992	1.00	80.00	80.00	0.305	0.305	1.00
33	6:15	1.00	1.005	1.00	80.00	80.00	1.072	1.072	1.00
34	6:32	1.00	1.051	1.00	80.00	80.00	0.541	0.541	1.00
35	6:44	1.00	1.083	1.00	80.00	80.00	0.129	0.129	1.00
36	7:49	1.00	1.257	1.00	80.00	80.00	0.229	0.229	1.00
37	7:44	1.00	1.244	1.00	80.00	80.00	0.719	0.719	1.00
38	8:17	1.00	0.826	1.00	80.00	80.00	0.232	0.232	1.00
39	8:32	1.00	0.850	1.00	80.00	80.00	0.412	0.412	1.00
40	8:36	1.00	0.857	1.00	80.00	80.00	0.274	0.274	1.00
41	8:46	1.00	0.874	1.00	80.00	80.00	1.074	1.074	1.00
42	9:12	1.00	0.917	1.00	80.00	80.00	0.408	0.408	1.00
43	9:52	1.00	0.983	1.00	80.00	80.00	1.139	1.139	1.00
44	9:40	1.00	0.963	1.00	80.00	80.00	1.794	1.794	1.00
45	10:10	1.00	1.013	1.00	80.00	80.00	0.401	0.401	1.00
46	10:06	1.00	1.007	1.00	80.00	80.00	0.942	0.942	1.00
47	10:23	1.00	1.035	1.00	80.00	80.00	0.154	0.154	1.00
48	10:51	1.00	1.081	1.00	80.00	80.00	0.074	0.074	1.00
49	10:29	1.00	1.045	1.00	80.00	80.00	1.347	1.347	1.00
50	10:45	1.00	1.071	1.00	80.00	80.00	0.259	0.259	1.00

012254

Quantitation Report File: FS0526C04

Data: FS0526C04.TI
05/26/93 14:12:00
Sample: SSTD080
Ids.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012255

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	596	9:56	3	0.990	A BV	22282.	80.000 UG/L	1.22
52	149	691	11:31	3	1.148	A VB	61220.	80.000 UG/L	1.22
53	204	684	11:24	3	1.136	A BB	41501.	80.000 UG/L	1.22
54	166	675	11:15	3	1.121	A BB	71512.	80.000 UG/L	1.22
55	138	696	11:36	3	1.156	M XX	23421.	80.000 UG/L	1.22
56	198	701	11:41	4	0.878	A BB	14248.	80.000 UG/L	1.22
57	169	705	11:45	4	0.883	A BB	59130.	80.000 UG/L	1.22
58	248	748	12:28	4	0.937	A BB	24216.	80.000 UG/L	1.22

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	284	760	12:40	4	0.952	A BB	23519.	80.000 UG/L	1.22
60	266	790	13:10	4	0.990	A BB	17848.	80.000 UG/L	1.22
61	178	801	13:21	4	1.004	A BV	181150.	80.000 UG/L	1.22
2	178	807	13:27	4	1.011	A VB	148908.	80.000 UG/L	1.22
63	149	915	15:15	4	1.147	A BB	246232.	80.000 UG/L	1.22
64	202	962	16:02	4	1.206	A BB	200296.	80.000 UG/L	1.22
65	202	990	16:30	5	0.853	A BB	212533.	80.000 UG/L	1.22
66	149	1116	18:36	5	0.961	A BB	102921.	80.000 UG/L	1.22
67	252	1169	19:29	5	1.007	A BB	57796.	80.000 UG/L	1.22
68	228	1159	19:19	5	0.998	A BV	204097.	80.000 UG/L	1.22
69	149	1210	20:10	5	1.042	A VB	150501.	80.000 UG/L	1.22
70	228	1164	19:24	5	1.003	A VB	135902.	80.000 UG/L	1.22
71	149	1291	21:31	6	0.963	A BV	268514.	80.000 UG/L	1.22
72	252	1299	21:39	6	0.969	A BV	184423.	80.000 UG/L	1.22
73	252	1303	21:43	6	0.972	A VB	118474.	80.000 UG/L	1.22
74	252	1335	22:15	6	0.996	A BB	139193.	80.000 UG/L	1.22
75	276	1460	24:20	6	1.089	A BV	119967.	80.000 UG/L	1.22
76	278	1466	24:26	6	1.093	A BB	110740.	80.000 UG/L	1.22
77	276	1489	24:49	6	1.110	A BB	120311.	80.000 UG/L	1.22
78	74	64	1:04	1	0.278	A BB	51734.	80.000 UG/L	1.22
79	184	997	16:37	5	0.859	A BB	96697.	80.000 UG/L	1.22
80	182	215	3:35	1	0.935	A BB	100190.	80.000 UG/L	1.22
81	182	248	4:08	1	1.078	M XX	42893.	80.000 UG/L	1.22
82	167	838	13:58	4	1.050	M XX	163620.	80.000 UG/L	1.22
83	93	207	3:27	1	0.900	M XX	135656.	80.000 UG/L	1.22
84	79	65	1:05	1	0.283	M XX	93351.	80.000 UG/L	1.22
85	77	705	11:45	4	0.883	M XX	100299.	80.000 UG/L	1.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:56	1.00	0.990	1.00	80.00	80.00	0.324	0.324	1.00
52	11:31	1.00	1.148	1.00	80.00	80.00	0.891	0.891	1.00
53	11:24	1.00	1.136	1.00	80.00	80.00	0.604	0.604	1.00
54	11:15	1.00	1.121	1.00	80.00	80.00	1.041	1.041	1.00
55	11:36	1.00	1.156	1.00	80.00	80.00	0.341	0.341	1.00
56	11:41	1.00	0.878	1.00	80.00	80.00	0.116	0.116	1.00
57	11:45	1.00	0.883	1.00	80.00	80.00	0.480	0.480	1.00
58	12:28	1.00	0.937	1.00	80.00	80.00	0.197	0.197	1.00
59	12:40	1.00	0.952	1.00	80.00	80.00	0.191	0.191	1.00
60	13:10	1.00	0.990	1.00	80.00	80.00	0.145	0.145	1.00
61	13:21	1.00	1.004	1.00	80.00	80.00	1.471	1.471	1.00
62	13:27	1.00	1.011	1.00	80.00	80.00	1.209	1.209	1.00
63	15:15	1.00	1.147	1.00	80.00	80.00	2.000	2.000	1.00
64	16:02	1.00	1.206	1.00	80.00	80.00	1.627	1.627	1.00
65	16:30	1.00	0.853	1.00	80.00	80.00	1.558	1.558	1.00
66	18:36	1.00	0.961	1.00	80.00	80.00	0.755	0.755	1.00
67	19:29	1.00	1.007	1.00	80.00	80.00	0.424	0.424	1.00
68	19:19	1.00	0.998	1.00	80.00	80.00	1.497	1.497	1.00
69	20:10	1.00	1.042	1.00	80.00	80.00	1.104	1.104	1.00
70	19:24	1.00	1.003	1.00	80.00	80.00	0.997	0.997	1.00
71	21:31	1.00	0.963	1.00	80.00	80.00	2.113	2.113	1.00
72	21:39	1.00	0.969	1.00	80.00	80.00	1.451	1.451	1.00
73	21:43	1.00	0.972	1.00	80.00	80.00	0.932	0.932	1.00
74	22:15	1.00	0.996	1.00	80.00	80.00	1.095	1.095	1.00
75	24:20	1.00	1.089	1.00	80.00	80.00	0.944	0.944	1.00
76	24:26	1.00	1.093	1.00	80.00	80.00	0.872	0.872	1.00
77	24:49	1.00	1.110	1.00	80.00	80.00	0.947	0.947	1.00

012256

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	1:04	1.00	0.278	1.00	80.00	80.00	1.017	1.017	1.00
79	16:37	1.00	0.859	1.00	80.00	80.00	0.709	0.709	1.00
80	3:35	1.00	0.935	1.00	80.00	80.00	1.969	1.969	1.00
.	4:08	1.00	1.078	1.00	80.00	80.00	0.843	0.843	1.00
82	13:58	1.00	1.050	1.00	80.00	80.00	1.329	1.329	1.00
83	3:27	1.00	0.900	1.00	80.00	80.00	2.666	2.666	1.00
84	1:05	1.00	0.283	1.00	80.00	80.00	1.835	1.835	1.00
85	11:45	1.00	0.883	1.00	80.00	80.00	0.815	0.815	1.00

012257

CHESTER DC # ----17

012258

SV STANDARD REPORT

IPLE ID. SSTD120 INST. ID.: 4510

LAB ID. FS0526C05

CLIENT CHESTER ANALYST JDD

DATE INJECTED 05/26/93 14:49:00 VERFIED BY

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	230	40	14906	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	372	40	48418	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	601	40	22665	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	797	40	45170	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1160	40	49507	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1341	40	45802	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	133	120	72532	0.578	1.622
CS45	PHENOL-D5 ** SU2 **	99	217	120	83318	0.943	1.863
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	711	120	10341	1.183	0.152
CS20	NITROBENZENE-D5 ** SU3 **	82	293	120	56007	0.788	0.386
CS25	2-FLUOROBIPHENYL ** SU4 **	172	522	120	74703	0.869	1.099
CS30	TERPHENYL-D14 ** SU6 **	244	1030	120	184916	0.888	1.245
C315	PHENOL	94	218	120	79184	0.948	1.771
C325	BIS(2-CHLOROETHYL)ETHER	93	217	120	54321	0.943	1.215
C330	2-CHLOROPHENOL	128	216	120	61515	0.939	1.376
C335	1,3-DICHLOROBENZENE	146	226	120	66455	0.983	1.486
C340	1,4-DICHLOROBENZENE	146	232	120	72445	1.009	1.620
C345	BENZYL ALCOHOL	108	256	120	28779	1.113	0.644
C350	1,2-DICHLOROBENZENE	146	250	120	65214	1.087	1.458
C355	2-METHYLPHENOL	108	276	120	62261	1.200	1.392
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	272	120	89388	1.183	1.999
C365	4-METHYLPHENOL	108	294	120	68826	1.278	1.539
C370	N-NITROSODIPROPYLAMINE	70	290	120	41825	1.261	0.935
C375	HEXACHLOROETHANE	117	281	120	23341	1.222	0.522
C410	NITROBENZENE	77	295	120	80531	0.793	0.554
C415	ISOPHORONE	82	328	120	113293	0.882	0.780
C420	2-NITROPHENOL	139	332	120	35749	0.892	0.246
C425	2,4-DIMETHYLPHENOL	107	355	120	44276	0.954	0.305
C430	BENZOIC ACID	122	398	120	25626	1.070	0.176
C435	BIS(2-CHLOROETHOXY)METHANE	93	362	120	71984	0.973	0.496
C440	2,4-DICHLOROPHENOL	162	366	120	45372	0.984	0.312
C445	1,2,4-TRICHLOROBENZENE	180	370	120	44887	0.995	0.309
C450	NAPHTHALENE	128	375	120	163257	1.008	1.124
C455	4-CHLOROANILINE	127	392	120	75947	1.054	0.523
C460	HEXACHLOROBUTADIENE	225	404	120	18988	1.086	0.131
C465	P-CHLORO-M-CRESOL	107	469	120	40422	1.261	0.278
C470	2-METHYLNAPHTHALENE	142	464	120	121344	1.247	0.835
C510	HEXACHLOROCYCLOPENTADIENE	237	497	120	17395	0.827	0.256
C515	2,4,6-TRICHLOROPHENOL	196	512	120	28922	0.852	0.425
C520	2,4,5-TRICHLOROPHENOL	196	516	120	18766	0.859	0.276
525	2-CHLORONAPHTHALENE	162	526	120	73680	0.875	1.084
C530	2-NITROANILINE	65	552	120	28124	0.918	0.414
C535	DIMETHYL PHTHALATE	163	592	120	80397	0.985	1.182
C540	ACENAPHTHYLENE	152	580	120	129650	0.965	1.907
C545	3-NITROANILINE	138	610	120	26439	1.015	0.389
C550	ACENAPHTHENE	153	606	120	68785	1.008	1.012

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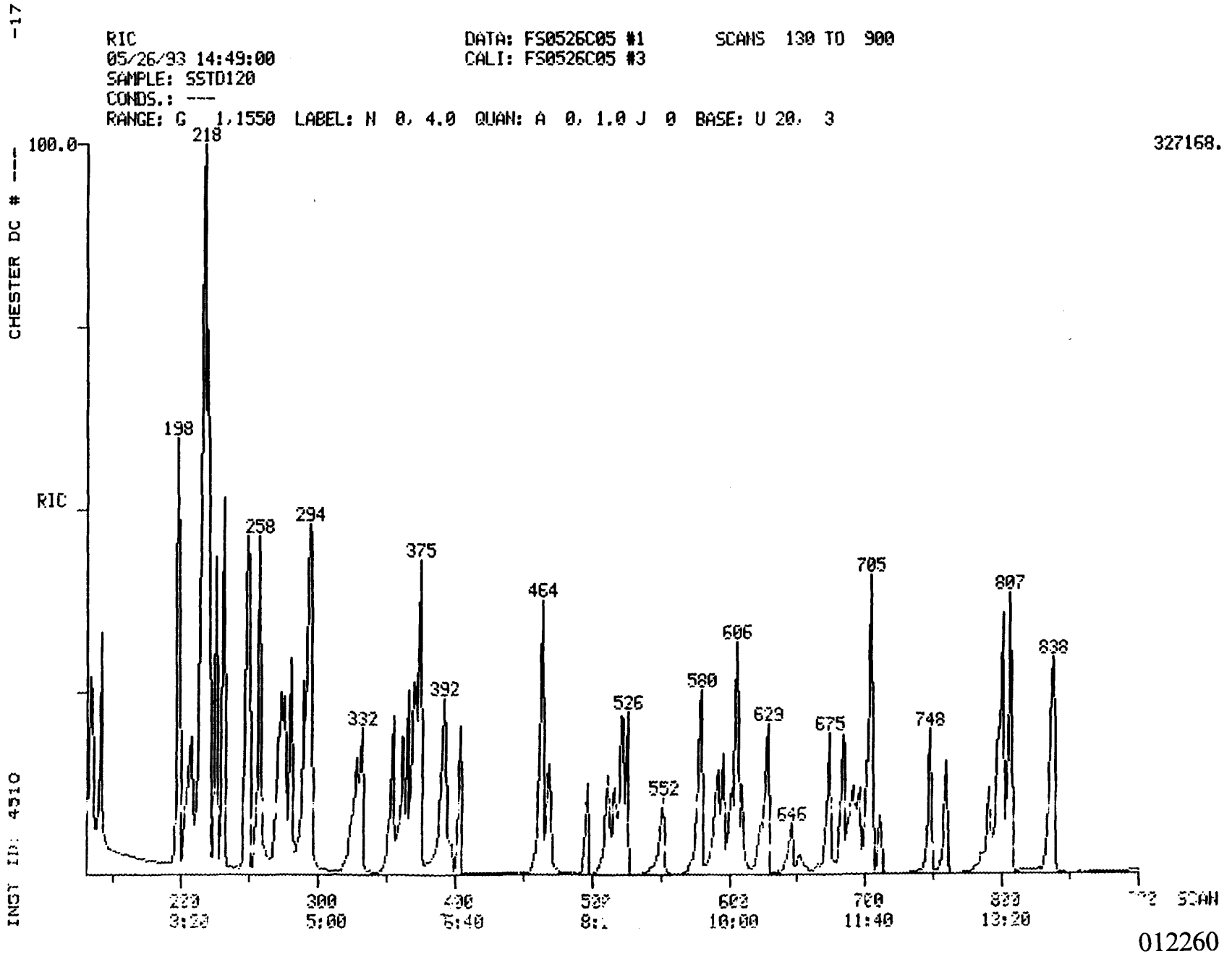
SV STANDARD REPORT PAGE 2

DATAFILE FS0526C05

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	
C555	2,4-DINITROPHENOL	184	623	120	11941	1.037	0.17
C560	4-NITROPHENOL	109	652	120	5564	1.085	0.08
C565	DIBENZOFURAN	168	629	120	98609	1.047	1.45
C570	2,4-DINITROTOLUENE	165	646	120	17621	1.075	0.25
C543	2,6-DINITROTOLUENE	165	596	120	21825	0.992	0.32
C580	DIETHYL PHTHALATE	149	691	120	66189	1.150	0.97
C585	4-CHLOROPHENYL PHENYL ETHER	204	684	120	44030	1.138	0.64
C590	FLUORENE	166	674	120	73526	1.121	1.08
C595	4-NITROANILINE	138	696	120	24429	1.158	0.35
C610	4,6-DINITRO-2-METHYLPHENOL	198	701	120	15897	0.880	0.11
C615	N-NITROSODIPHENYLAMINE	169	705	120	63664	0.885	0.47
C625	4-BROMOPHENYL PHENYL ETHER	248	748	120	26034	0.939	0.19
C630	HEXACHLOROBENZENE	284	760	120	26457	0.954	0.19
C635	PENTACHLOROPHENOL	266	790	120	19024	0.991	0.14
C640	PHENANTHRENE	178	801	120	206924	1.005	1.52
C645	ANTHRACENE	178	807	120	162936	1.013	1.20
C650	DI-N-BUTYL PHTHALATE	149	915	120	289815	1.148	2.13
C655	FLUORANTHENE	202	962	120	231430	1.207	1.70
C715	PYRENE	202	990	120	240903	0.853	1.62
C720	BUTYL BENZYL PHTHALATE	149	1116	120	120384	0.962	0.81
C725	3,3'-DICHLOROBENZIDINE	252	1169	120	63474	1.008	0.42
C730	BENZO(A)ANTHRACENE	228	1159	120	240436	0.999	1.61
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1210	120	180051	1.043	1.21
C740	CHRYSENE	228	1164	120	145345	1.003	0.97
C760	DI-N-OCTYL PHTHALATE	149	1291	120	305805	0.963	2.22
C765	BENZO(B)FLUORANTHENE	252	1299	120	208660	0.969	1.51
C770	BENZO(K)FLUORANTHENE	252	1303	120	131479	0.972	0.95
C775	BENZO(A)PYRENE	252	1335	120	156399	0.996	1.13
C780	INDENO(1,2,3-CD)PYRENE	276	1460	120	135079	1.089	0.98
C785	DIBENZO(A,H)ANTHRACENE	278	1466	120	127022	1.093	0.92
C790	BENZO(GHI)PERYLENE	276	1489	120	133542	1.110	0.97
C620	1,2-DIPHENYL-HYDRAZINE	77	705	120	104231	0.885	0.76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CALI: FS0526C05 #3
SCANS 130 TO 900
327168.
CHESTER DC # ---
100.0
RIC
INST ID: 4510
218
198
258
294
332
375
392
464
526
552
580
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705
748
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700
11:40
800
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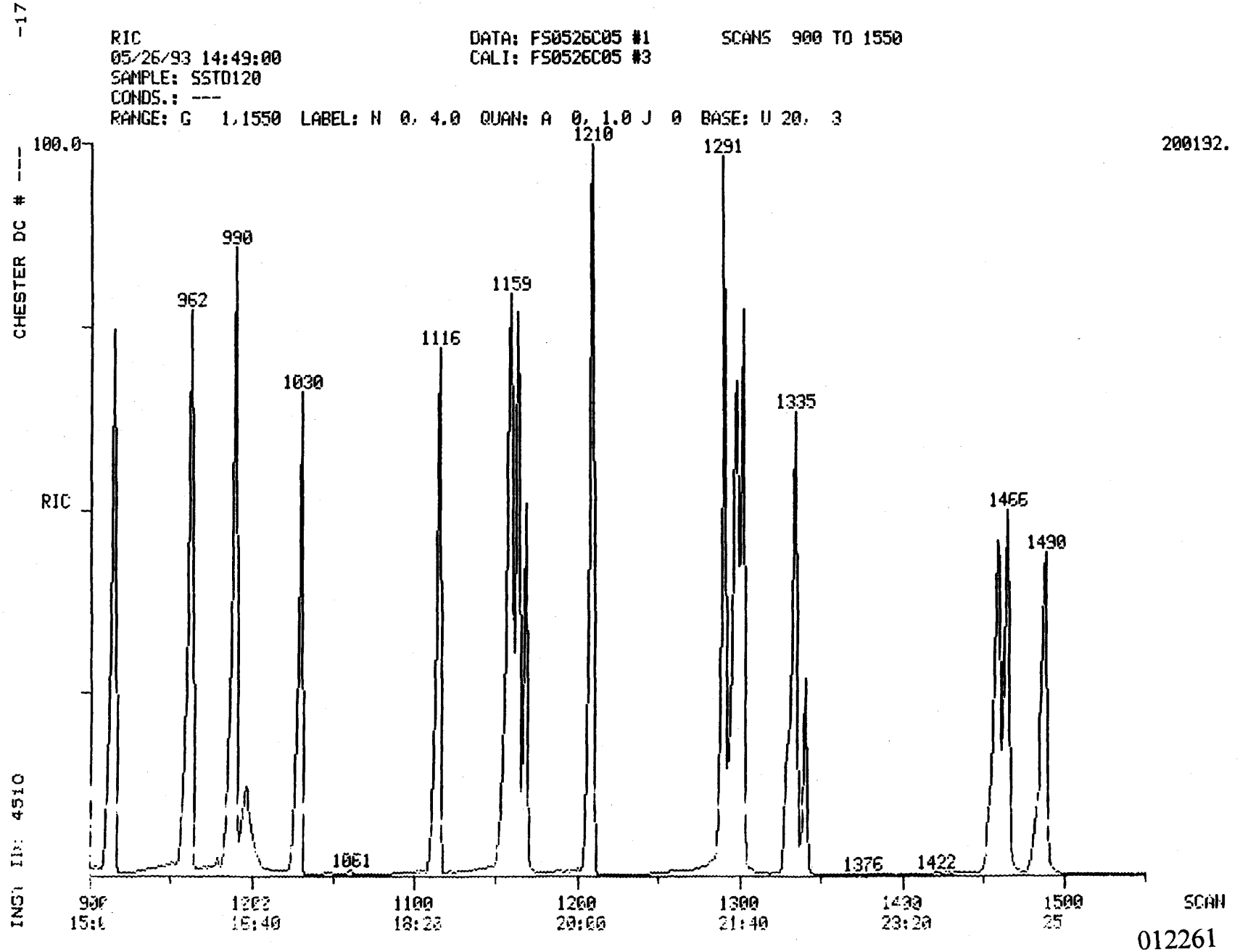
SCAN
012260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DATA: FS0526C05 #1
CALI: FS0526C05 #3
SCANS 900 TO 1550
200132.
CHESTER DC # ---
INST ID: 4510
100.0
RIC
962
990
1030
1061
1116
1159
1210
1291
1335
1376
1422
1466
1490
900
15:00
1000
16:40
1100
18:20
1200
20:00
1300
21:40
1400
23:20
1500
25
SCAN

012261

Quantitation Report File: FS0526C05

Data: FS0526C05.TI
05/26/93 14:49:00
Sample: SSTD120
Lids.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012262

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C550	2-FLUOROPHENOL ** SU1 **	
8	C545	PHENOL-D5 ** SU2 **	
9	C555	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C520	NITROBENZENE-D5 ** SU3 **	
11	C525	2-FLUOROBIPHENYL ** SU4 **	
12	C530	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012263

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	230	3:50	1	1.000	A BB	14906.	40.000 UG/L	0.41
2	136	372	6:12	2	1.000	A BB	48418.	40.000 UG/L	0.41
3	164	601	10:01	3	1.000	A VB	22665.	40.000 UG/L	0.41
4	188	797	13:17	4	1.000	A VB	45170.	40.000 UG/L	0.41
5	240	1160	19:20	5	1.000	A BB	49507.	40.000 UG/L	0.41
6	264	1341	22:21	6	1.000	A BB	45802.	40.000 UG/L	0.41
7	112	133	2:13	1	0.578	A BB	72532.	120.000 UG/L	1.23
8	99	217	3:37	1	0.943	A BB	83318.	120.000 UG/L	1.23
9	330	711	11:51	3	1.183	A VB	10341.	120.000 UG/L	1.23
10	82	293	4:53	2	0.788	A BB	56007.	120.000 UG/L	1.23
11	172	522	8:42	3	0.869	A BB	74703.	120.000 UG/L	1.23
12	244	1030	17:10	5	0.888	A BB	184915.	120.000 UG/L	1.23
13	94	218	3:38	1	0.948	A VB	79183.	120.000 UG/L	1.23
14	93	217	3:37	1	0.943	M XX	54321.	120.000 UG/L	1.23
15	108	216	3:36	1	0.939	A BB	61515.	120.000 UG/L	1.23
16	146	226	3:46	1	0.983	A BV	66455.	120.000 UG/L	1.23
17	146	232	3:52	1	1.009	A VB	72445.	120.000 UG/L	1.23
18	108	256	4:16	1	1.113	M XX	28779.	120.000 UG/L	1.23
19	146	250	4:10	1	1.087	A BB	65214.	120.000 UG/L	1.23
20	108	276	4:36	1	1.200	A BB	62261.	120.000 UG/L	1.23
21	65	272	4:32	1	1.183	A BB	89388.	120.000 UG/L	1.23
22	108	294	4:54	1	1.278	A BB	68826.	120.000 UG/L	1.23
23	70	290	4:50	1	1.261	M XX	41825.	120.000 UG/L	1.23
[illegible]	117	281	4:41	1	1.222	A BB	23341.	120.000 UG/L	1.23
[illegible]	77	295	4:55	2	0.793	A BB	80531.	120.000 UG/L	1.23
26	82	328	5:28	2	0.882	A BB	113293.	120.000 UG/L	1.23
27	139	332	5:32	2	0.892	A BB	35749.	120.000 UG/L	1.23
28	107	355	5:55	2	0.954	A BV	44276.	120.000 UG/L	1.23
29	192	398	6:38	2	1.070	M XX	25626.	120.000 UG/L	1.23
30	93	362	6:02	2	0.973	A BB	71984.	120.000 UG/L	1.23
31	162	366	6:06	2	0.984	A BB	45372.	120.000 UG/L	1.23
32	180	370	6:10	2	0.995	A BB	44887.	120.000 UG/L	1.23
33	198	375	6:15	2	1.008	A BB	163257.	120.000 UG/L	1.23
34	197	392	6:32	2	1.054	A BB	75947.	120.000 UG/L	1.23
35	225	404	6:44	2	1.086	A BB	18988.	120.000 UG/L	1.23
36	107	469	7:49	2	1.261	A BB	40422.	120.000 UG/L	1.23
37	142	464	7:44	2	1.247	A BV	121343.	120.000 UG/L	1.23
38	237	497	8:17	3	0.827	A BB	17395.	120.000 UG/L	1.23
39	196	512	8:32	3	0.852	A BV	28922.	120.000 UG/L	1.23
40	196	516	8:36	3	0.859	A VB	18766.	120.000 UG/L	1.23
41	162	526	8:46	3	0.875	A VB	73680.	120.000 UG/L	1.23
42	65	552	9:12	3	0.918	A BB	28124.	120.000 UG/L	1.23
43	163	592	9:52	3	0.985	A BV	80397.	120.000 UG/L	1.23
44	152	580	9:40	3	0.965	A BB	129650.	120.000 UG/L	1.23
45	138	610	10:10	3	1.015	A VB	26439.	120.000 UG/L	1.23
46	153	606	10:06	3	1.008	A BB	68785.	120.000 UG/L	1.23
47	184	623	10:23	3	1.037	M XX	11941.	120.000 UG/L	1.23
48	109	652	10:52	3	1.085	M XX	5564.	120.000 UG/L	1.23
[illegible]	168	629	10:29	3	1.047	A BB	98609.	120.000 UG/L	1.23
	165	646	10:46	3	1.075	M XX	17621.	120.000 UG/L	1.23

No	Rct(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	10:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	13:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	2:13	1.00	0.578	1.00	120.00	120.00	1.622	1.622	1.00
8	3:37	1.00	0.943	1.00	120.00	120.00	1.863	1.863	1.00
9	11:51	1.00	1.183	1.00	120.00	120.00	0.152	0.152	1.00
10	4:53	1.00	0.788	1.00	120.00	120.00	0.386	0.386	1.00
11	6:42	1.00	0.869	1.00	120.00	120.00	1.099	1.099	1.00
12	17:10	1.00	0.888	1.00	120.00	120.00	1.245	1.245	1.00
13	3:38	1.00	0.948	1.00	120.00	120.00	1.771	1.771	1.00
14	3:37	1.00	0.943	1.00	120.00	120.00	1.215	1.215	1.00
15	3:36	1.00	0.939	1.00	120.00	120.00	1.376	1.376	1.00
16	3:46	1.00	0.983	1.00	120.00	120.00	1.486	1.486	1.00
17	3:52	1.00	1.009	1.00	120.00	120.00	1.620	1.620	1.00
18	4:16	1.00	1.113	1.00	120.00	120.00	0.644	0.644	1.00
19	4:10	1.00	1.087	1.00	120.00	120.00	1.458	1.458	1.00
20	4:36	1.00	1.200	1.00	120.00	120.00	1.392	1.392	1.00
21	4:32	1.00	1.183	1.00	120.00	120.00	1.999	1.999	1.00
22	4:54	1.00	1.278	1.00	120.00	120.00	1.539	1.539	1.00
23	4:50	1.00	1.261	1.00	120.00	120.00	0.935	0.935	1.00
24	4:41	1.00	1.222	1.00	120.00	120.00	0.522	0.522	1.00
25	4:55	1.00	0.793	1.00	120.00	120.00	0.554	0.554	1.00
26	5:28	1.00	0.882	1.00	120.00	120.00	0.780	0.780	1.00
27	5:32	1.00	0.892	1.00	120.00	120.00	0.246	0.246	1.00
28	5:55	1.00	0.954	1.00	120.00	120.00	0.305	0.305	1.00
7	6:38	1.00	1.070	1.00	120.00	120.00	0.176	0.176	1.00
.0	6:02	1.00	0.973	1.00	120.00	120.00	0.496	0.496	1.00
31	6:06	1.00	0.984	1.00	120.00	120.00	0.312	0.312	1.00
32	6:10	1.00	0.995	1.00	120.00	120.00	0.309	0.309	1.00
33	6:15	1.00	1.008	1.00	120.00	120.00	1.124	1.124	1.00
34	6:32	1.00	1.054	1.00	120.00	120.00	0.523	0.523	1.00
35	6:44	1.00	1.086	1.00	120.00	120.00	0.131	0.131	1.00
36	7:49	1.00	1.261	1.00	120.00	120.00	0.278	0.278	1.00
37	7:44	1.00	1.247	1.00	120.00	120.00	0.835	0.835	1.00
38	8:17	1.00	0.827	1.00	120.00	120.00	0.256	0.256	1.00
39	8:32	1.00	0.852	1.00	120.00	120.00	0.425	0.425	1.00
40	8:36	1.00	0.859	1.00	120.00	120.00	0.276	0.276	1.00
41	8:46	1.00	0.875	1.00	120.00	120.00	1.084	1.084	1.00
42	9:12	1.00	0.918	1.00	120.00	120.00	0.414	0.414	1.00
43	9:52	1.00	0.985	1.00	120.00	120.00	1.182	1.182	1.00
44	9:40	1.00	0.965	1.00	120.00	120.00	1.907	1.907	1.00
45	10:10	1.00	1.015	1.00	120.00	120.00	0.389	0.389	1.00
46	10:06	1.00	1.008	1.00	120.00	120.00	1.012	1.012	1.00
47	10:23	1.00	1.037	1.00	120.00	120.00	0.176	0.176	1.00
48	10:52	1.00	1.085	1.00	120.00	120.00	0.082	0.082	1.00
49	10:29	1.00	1.047	1.00	120.00	120.00	1.450	1.450	1.00
50	10:46	1.00	1.075	1.00	120.00	120.00	0.259	0.259	1.00

012264

Quantitation Report File: FS0526C05

Data: FS0526C05.TI
05/26/93 14:49:00
Sample: SSTD120
Vds.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012265

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	C570	2-CHLOROPHENOL-D4 ** SU7 **	
81	C575	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	596	9:56	3	0.992	A BV	21825.	120.000 UG/L	1.23
52	149	691	11:31	3	1.150	A VB	66189.	120.000 UG/L	1.23
53	204	684	11:24	3	1.138	A BB	44030.	120.000 UG/L	1.23
54	166	674	11:14	3	1.121	A BB	73526.	120.000 UG/L	1.23
55	138	696	11:36	3	1.158	M XX	24429.	120.000 UG/L	1.23
56	198	701	11:41	4	0.880	M XX	15897.	120.000 UG/L	1.23
[illegible]	169	705	11:45	4	0.885	A BB	63664.	120.000 UG/L	1.23
58	248	748	12:28	4	0.939	A BB	26034.	120.000 UG/L	1.23

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
59	284	760	12:40	4	0.954	A BB	26457.	120.000 UG/L	1.23
60	266	790	13:10	4	0.991	A VB	19024.	120.000 UG/L	1.23
61	178	801	13:21	4	1.005	A BV	206924.	120.000 UG/L	1.23
62	178	807	13:27	4	1.013	A VB	162936.	120.000 UG/L	1.23
63	149	915	15:15	4	1.148	A BB	289815.	120.000 UG/L	1.23
64	202	962	16:02	4	1.207	A VB	231429.	120.000 UG/L	1.23
65	202	990	16:30	5	0.853	A BB	240903.	120.000 UG/L	1.23
66	149	1116	18:36	5	0.962	A BB	120384.	120.000 UG/L	1.23
67	252	1169	19:29	5	1.008	A BB	63474.	120.000 UG/L	1.23
68	228	1159	19:19	5	0.999	A BV	240436.	120.000 UG/L	1.23
69	149	1210	20:10	5	1.043	A VB	180051.	120.000 UG/L	1.23
70	228	1164	19:24	5	1.003	A VB	145345.	120.000 UG/L	1.23
71	149	1291	21:31	6	0.963	A BB	305805.	120.000 UG/L	1.23
72	252	1299	21:39	6	0.969	A BV	208659.	120.000 UG/L	1.23
73	252	1303	21:43	6	0.972	A VB	131479.	120.000 UG/L	1.23
74	252	1335	22:15	6	0.996	A BB	156399.	120.000 UG/L	1.23
75	276	1460	24:20	6	1.089	A BV	135079.	120.000 UG/L	1.23
76	278	1466	24:26	6	1.093	A BB	127022.	120.000 UG/L	1.23
77	276	1489	24:49	6	1.110	A BB	133541.	120.000 UG/L	1.23
78	74	64	1:04	1	0.278	A BB	47478.	120.000 UG/L	1.23
79	184	796	16:36	5	0.859	A BB	89903.	120.000 UG/L	1.23
80	132	215	3:35	1	0.935	A BB	84253.	120.000 UG/L	1.23
81	152	248	4:08	1	1.078	M XX	35744.	120.000 UG/L	1.23
82	167	838	13:58	4	1.051	M XX	188900.	120.000 UG/L	1.23
83	93	207	3:27	1	0.900	M XX	124811.	120.000 UG/L	1.23
84	79	65	1:05	1	0.283	M XX	86223.	120.000 UG/L	1.23
85	77	705	11:45	4	0.885	M XX	104231.	120.000 UG/L	1.23

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:56	1.00	0.992	1.00	120.00	120.00	0.321	0.321	1.00
52	11:31	1.00	1.150	1.00	120.00	120.00	0.973	0.973	1.00
53	11:24	1.00	1.138	1.00	120.00	120.00	0.648	0.648	1.00
54	11:14	1.00	1.121	1.00	120.00	120.00	1.081	1.081	1.00
55	11:36	1.00	1.158	1.00	120.00	120.00	0.359	0.359	1.00
56	11:41	1.00	0.880	1.00	120.00	120.00	0.117	0.117	1.00
57	11:45	1.00	0.885	1.00	120.00	120.00	0.470	0.470	1.00
58	12:28	1.00	0.939	1.00	120.00	120.00	0.192	0.192	1.00
59	12:40	1.00	0.954	1.00	120.00	120.00	0.195	0.195	1.00
60	13:10	1.00	0.991	1.00	120.00	120.00	0.140	0.140	1.00
61	13:21	1.00	1.005	1.00	120.00	120.00	1.527	1.527	1.00
62	13:27	1.00	1.013	1.00	120.00	120.00	1.202	1.202	1.00
63	15:15	1.00	1.148	1.00	120.00	120.00	2.139	2.139	1.00
64	16:02	1.00	1.207	1.00	120.00	120.00	1.708	1.708	1.00
65	16:30	1.00	0.853	1.00	120.00	120.00	1.622	1.622	1.00
66	18:36	1.00	0.962	1.00	120.00	120.00	0.811	0.811	1.00
67	19:29	1.00	1.008	1.00	120.00	120.00	0.427	0.427	1.00
68	19:19	1.00	0.999	1.00	120.00	120.00	1.619	1.619	1.00
69	20:10	1.00	1.043	1.00	120.00	120.00	1.212	1.212	1.00
70	19:24	1.00	1.003	1.00	120.00	120.00	0.979	0.979	1.00
71	21:31	1.00	0.963	1.00	120.00	120.00	2.226	2.226	1.00
72	21:39	1.00	0.969	1.00	120.00	120.00	1.519	1.519	1.00
73	21:43	1.00	0.972	1.00	120.00	120.00	0.957	0.957	1.00
74	22:15	1.00	0.996	1.00	120.00	120.00	1.138	1.138	1.00
75	24:20	1.00	1.089	1.00	120.00	120.00	0.983	0.983	1.00
76	24:26	1.00	1.093	1.00	120.00	120.00	0.924	0.924	1.00
77	24:49	1.00	1.110	1.00	120.00	120.00	0.972	0.972	1.00

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No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
73	1:04	1.00	0.278	1.00	120.00	120.00	1.062	1.062	1.00
77	16:36	1.00	0.859	1.00	120.00	120.00	0.605	0.605	1.00
90	3:35	1.00	0.935	1.00	120.00	120.00	1.884	1.884	1.00
	8:08	1.00	1.078	1.00	120.00	120.00	0.799	0.799	1.00
82	13:58	1.00	1.051	1.00	120.00	120.00	1.394	1.394	1.00
83	3:27	1.00	0.900	1.00	120.00	120.00	2.791	2.791	1.00
84	1:05	1.00	0.283	1.00	120.00	120.00	1.928	1.928	1.00
85	11:45	1.00	0.885	1.00	120.00	120.00	0.769	0.769	1.00

012267

CHESTER DC # ----17

012268

SV STANDARD REPORT

MPLE ID.	SSTD160	INST. ID.:	4510
LAB ID.	FS0526C06		
CLIENT	CHESTER	ANALYST	JDD
DATE INJECTED	05/26/93 15:26:00	VERFIED BY	

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	RF
CI30	1,4-DICHLOROBENZENE-D4 ** IS	152	232	40	19784	1.000	0.999
CI40	NAPHTHALENE-D8 ** IS2 **	136	374	40	67568	1.000	0.999
CI50	ACENAPHTHENE-D10 ** IS3 **	164	603	40	30390	1.000	0.999
CI60	PHENANTHRENE-D10 ** IS4 **	188	799	40	59918	1.000	0.999
CI70	CHRYSENE-D12 ** IS5 **	240	1162	40	66422	1.000	0.999
CI75	PERYLENE-D12 ** IS6 **	264	1343	40	68456	1.000	0.999
CS50	2-FLUOROPHENOL ** SU1 **	112	135	160	133274	0.582	1.684
CS45	PHENOL-D5 ** SU2 **	99	220	160	146734	0.948	1.854
CS55	2,4,6-TRIBROMOPHENOL ** SU5	330	713	160	20078	1.182	0.165
CS20	NITROBENZENE-D5 ** SU3 **	82	295	160	102173	0.789	0.378
CS25	2-FLUOROBIPHENYL ** SU4 **	172	524	160	137635	0.869	1.132
CS30	TERPHENYL-D14 ** SU6 **	244	1032	160	328365	0.888	1.236
C315	PHENOL	94	221	160	150002	0.953	1.895
C325	BIS(2-CHLOROETHYL)ETHER	93	220	160	82748	0.948	1.046
C330	2-CHLOROPHENOL	128	219	160	104212	0.944	1.317
C335	1,3-DICHLOROBENZENE	146	228	160	122760	0.983	1.551
C340	1,4-DICHLOROBENZENE	146	234	160	128112	1.009	1.619
C345	BENZYL ALCOHOL	108	261	160	36582	1.125	0.462
C350	1,2-DICHLOROBENZENE	146	251	160	104682	1.082	1.323
C355	2-METHYLPHENOL	108	278	160	105755	1.198	1.336
C357	2,2'-OXYBIS(1-CHLOROPROPANE)	45	273	160	163436	1.177	2.065
C365	4-METHYLPHENOL	108	298	160	115824	1.284	1.464
C370	N-NITROSODIPROPYLAMINE	70	293	160	87067	1.263	1.100
C375	HEXACHLOROETHANE	117	282	160	42361	1.216	0.535
C410	NITROBENZENE	77	298	160	134053	0.797	0.496
C415	ISOPHORONE	82	333	160	197079	0.890	0.729
C420	2-NITROPHENOL	139	334	160	66656	0.893	0.247
C425	2,4-DIMETHYLPHENOL	107	358	160	83858	0.957	0.310
C430	BENZOIC ACID	122	405	160	53303	1.083	0.197
C435	BIS(2-CHLOROETHOXY)METHANE	93	365	160	135410	0.976	0.501
C440	2,4-DICHLOROPHENOL	162	368	160	83798	0.984	0.310
C445	1,2,4-TRICHLOROBENZENE	180	372	160	84209	0.995	0.312
C450	NAPHTHALENE	128	377	160	300115	1.008	1.110
C455	4-CHLOROANILINE	127	394	160	134906	1.053	0.499
C460	HEXACHLOROBUTADIENE	225	405	160	36185	1.083	0.134
C465	P-CHLORO-M-CRESOL	107	471	160	70857	1.259	0.262
C470	2-METHYLNAPHTHALENE	142	466	160	232971	1.246	0.862
C510	HEXACHLOROCYCLOPENTADIENE	237	498	160	35472	0.826	0.292
C515	2,4,6-TRICHLOROPHENOL	196	514	160	54197	0.852	0.446
C520	2,4,5-TRICHLOROPHENOL	196	519	160	27686	0.861	0.228
C525	2-CHLORONAPHTHALENE	162	528	160	138896	0.876	1.143
C530	2-NITROANILINE	65	554	160	47461	0.919	0.390
C535	DIMETHYL PHTHALATE	163	594	160	151310	0.985	1.245
C540	ACENAPHTHYLENE	152	581	160	229135	0.964	1.885
C545	3-NITROANILINE	138	612	160	49604	1.015	0.408
C550	ACENAPHTHENE	153	608	160	123275	1.008	1.014

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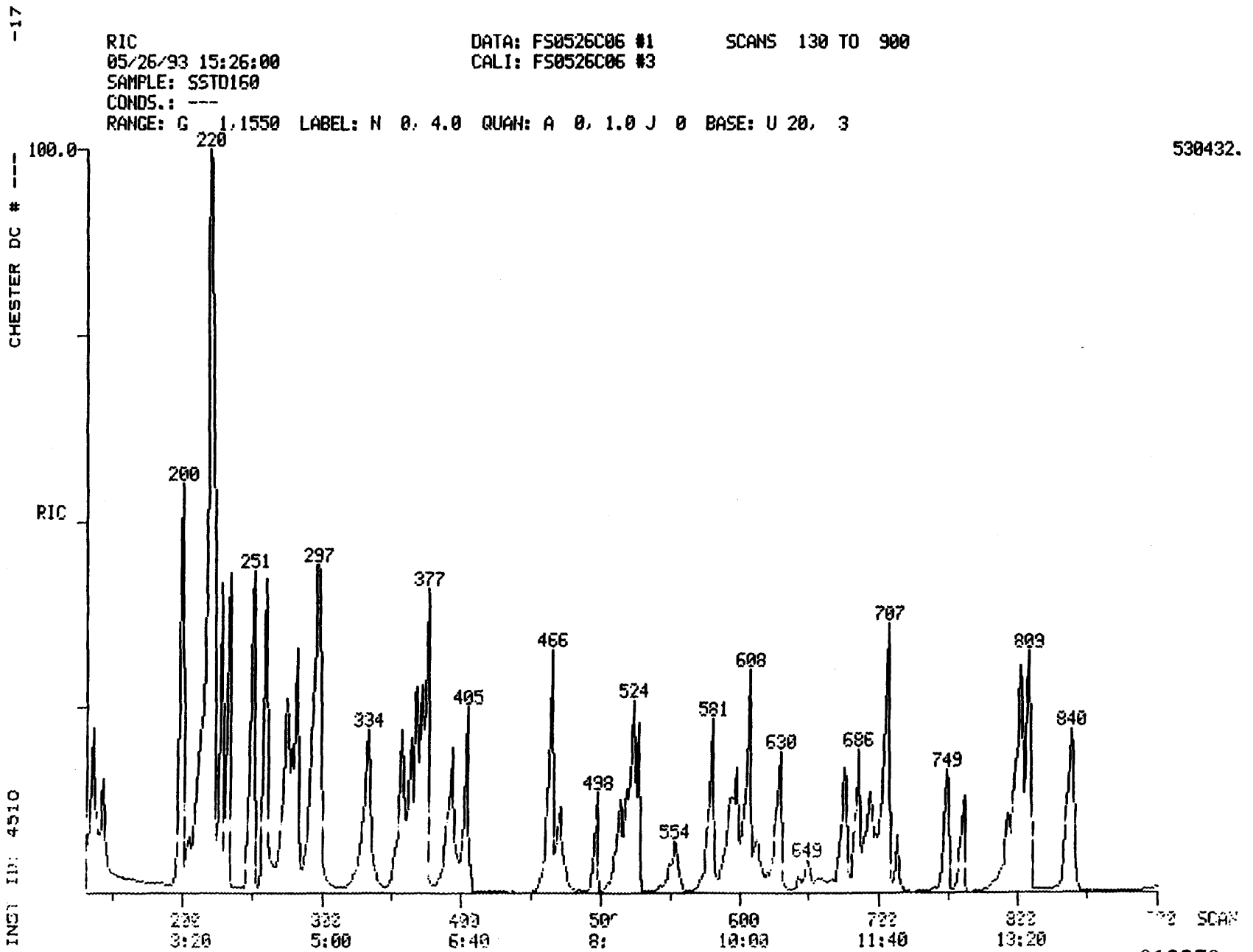
SV STANDARD REPORT PAGE 2

FILE FS0526C06

	SV COMPOUNDS	M/E	SCAN#	AMOUNT	AREA	RRT	I
C555	2,4-DINITROPHENOL	184	627	160	18840	1.040	0.155
C560	4-NITROPHENOL	109	658	160	10420	1.091	0.086
C565	DIBENZOFURAN	168	630	160	182146	1.045	1.498
C570	2,4-DINITROTOLUENE	165	649	160	25099	1.076	0.206
C543	2,6-DINITROTOLUENE	165	599	160	40512	0.993	0.333
C580	DIETHYL PHTHALATE	149	694	160	119505	1.151	0.983
C585	4-CHLOROPHENYL PHENYL ETHER	204	686	160	78137	1.138	0.643
C590	FLUORENE	166	676	160	121630	1.121	1.001
C595	4-NITROANILINE	138	701	160	37938	1.163	0.312
C610	4,6-DINITRO-2-METHYLPHENOL	198	705	160	26641	0.882	0.111
C615	N-NITROSODIPHENYLAMINE	169	707	160	102846	0.885	0.429
C625	4-BROMOPHENYL PHENYL ETHER	248	749	160	45627	0.937	0.190
C630	HEXACHLOROBENZENE	284	761	160	44237	0.952	0.185
C635	PENTACHLOROPHENOL	266	793	160	31262	0.992	0.130
C640	PHENANTHRENE	178	803	160	340503	1.005	1.421
C645	ANTHRACENE	178	809	160	244866	1.013	1.022
C650	DI-N-BUTYL PHTHALATE	149	916	160	485260	1.146	2.025
C655	FLUORANTHENE	202	964	160	392450	1.207	1.637
C715	PYRENE	202	991	160	409381	0.853	1.541
C720	BUTYL BENZYL PHTHALATE	149	1117	160	207955	0.961	0.783
C725	3,3'-DICHLOROBENZIDINE	252	1171	160	114845	1.008	0.432
C730	BENZO(A)ANTHRACENE	228	1160	160	448900	0.998	1.690
C745	BIS(2-ETHYLHEXYL)PHTHALATE	149	1210	160	316209	1.041	1.190
C740	CHRYSENE	228	1166	160	222447	1.003	0.837
C760	DI-N-OCTYL PHTHALATE	149	1292	160	485591	0.962	1.773
C765	BENZO(B)FLUORANTHENE	252	1300	160	457658	0.968	1.671
C770	BENZO(K)FLUORANTHENE	252	1305	160	220837	0.972	0.806
C775	BENZO(A)PYRENE	252	1338	160	316385	0.996	1.155
C780	INDENO(1,2,3-CD)PYRENE	276	1464	160	305223	1.090	1.115
C785	DIBENZO(A,H)ANTHRACENE	278	1470	160	272066	1.095	0.994
C790	BENZO(GHI)PERYLENE	276	1494	160	284261	1.112	1.038
C620	1,2-DIPHENYL-HYDRAZINE	77	707	160	173794	0.885	0.725


-17
RIC
05/26/93 15:26:00
SAMPLE: SSTD160
CONDS.: ---
RANGE: G 1.1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: FS0526C06 #1
CALI: FS0526C06 #3
SCANS 130 TO 900
530432.
CHESTER DC # ---
100.0
RIC
INST ID: 4510
220
200
251
297
377
334
405
466
498
524
554
581
608
630
649
686
707
749
809
840
3:20
5:00
6:40
8:
10:00
11:40
13:20
SCAN

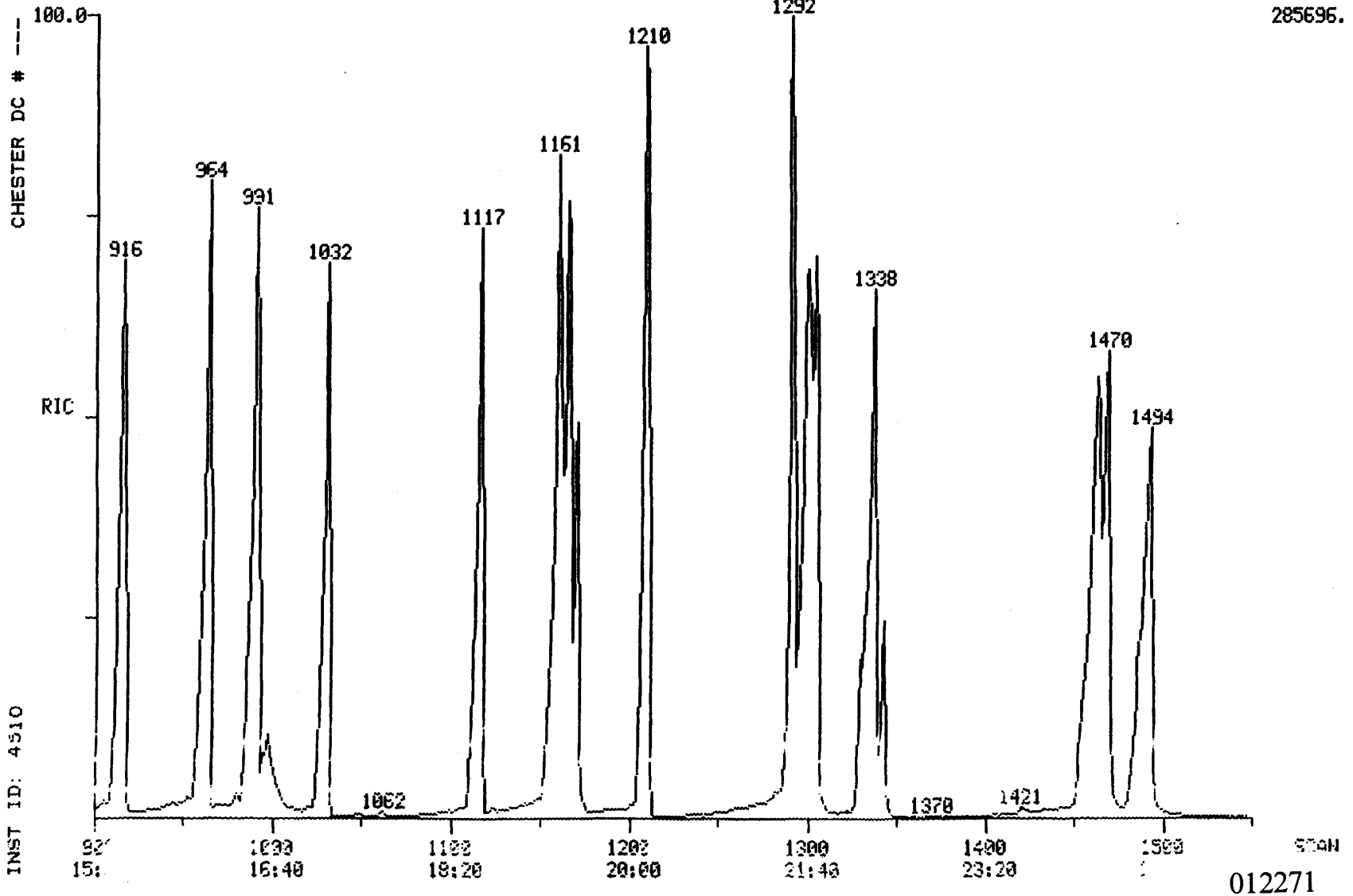
012270

-17

RIC
05/26/93 15:26:00
SAMPLE: SSTD160
CONDS.: ---
RANGE: G 1,1550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: FS0526C06 #1
CALI: FS0526C06 #3

SCANS 900 TO 1550



012271

Quantitation Report File: FS0526C06

Data: FS0526C06.TI
05/26/93 15:26:00
Sample: SSTD160
Mds.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012272

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	C130	1,4-DICHLOROBENZENE-D4 ** IS1 **	
2	C140	NAPHTHALENE-D8 ** IS2 **	
3	C150	ACENAPHTHENE-D10 ** IS3 **	
4	C160	PHENANTHRENE-D10 ** IS4 **	
5	C170	CHRYSENE-D12 ** IS5 **	
6	C175	PERYLENE-D12 ** IS6 **	
7	C550	2-FLUOROPHENOL ** SU1 **	
8	C545	PHENOL-D5 ** SU2 **	
9	C555	2,4,6-TRIBROMOPHENOL ** SU5 **	
10	C520	NITROBENZENE-D5 ** SU3 **	
11	C525	2-FLUOROBIPHENYL ** SU4 **	
12	C530	TERPHENYL-D14 ** SU6 **	
13	C315	PHENOL	10A
14	C325	BIS(2-CHLOROETHYL)ETHER	11B
15	C330	2-CHLOROPHENOL	1A
16	C335	1,3-DICHLOROBENZENE	21B
17	C340	1,4-DICHLOROBENZENE	22B
18	C345	BENZYL ALCOHOL	
19	C350	1,2-DICHLOROBENZENE	20B
20	C355	2-METHYLPHENOL	
21	C357	2,2'-OXYBIS(1-CHLOROPROPANE)	
22	C365	4-METHYLPHENOL	
23	C370	N-NITROSODIPROPYLAMINE	42B
24	C375	HEXACHLOROETHANE	36B
25	C410	NITROBENZENE	40B
26	C415	ISOPHORONE	38B
27	C420	2-NITROPHENOL	6A
28	C425	2,4-DIMETHYLPHENOL	3A
29	C430	BENZOIC ACID	
30	C435	BIS(2-CHLOROETHOXY)METHANE	10B
31	C440	2,4-DICHLOROPHENOL	2A
32	C445	1,2,4-TRICHLOROBENZENE	46B
33	C450	NAPHTHALENE	39B
34	C455	4-CHLOROANILINE	
35	C460	HEXACHLOROBUTADIENE	34B
36	C465	P-CHLORO-M-CRESOL	8A
37	C470	2-METHYLNAPHTHALENE	
38	C510	HEXACHLOROCYCLOPENTADIENE	35B
39	C515	2,4,6-TRICHLOROPHENOL	11A
40	C520	2,4,5-TRICHLOROPHENOL	
41	C525	2-CHLORONAPHTHALENE	16B
42	C530	2-NITROANILINE	
43	C535	DIMETHYL PHTHALATE	25B
44	C540	ACENAPHTHYLENE	2B
45	C545	3-NITROANILINE	
46	C550	ACENAPHTHENE	1B
47	C555	2,4-DINITROPHENOL	5A

No	Name		
48	C560	4-NITROPHENOL	7A
49	C565	DIBENZOFURAN	
50	C570	2,4-DINITROTOLUENE	27B

012273

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	232	3:52	1	1.000	A BB	19784.	40.000	UG/L	0.31
2	136	374	6:14	2	1.000	A BB	67568.	40.000	UG/L	0.31
3	164	603	10:03	3	1.000	A VB	30390.	40.000	UG/L	0.31
4	188	799	13:19	4	1.000	A BB	59918.	40.000	UG/L	0.31
5	240	1162	19:22	5	1.000	A BB	66422.	40.000	UG/L	0.31
6	264	1343	22:23	6	1.000	A BB	68456.	40.000	UG/L	0.31
7	112	135	2:15	1	0.582	A BB	133274.	160.000	UG/L	1.24
8	99	220	3:40	1	0.948	A BB	146734.	160.000	UG/L	1.24
9	330	713	11:53	3	1.182	A VB	20078.	160.000	UG/L	1.24
10	82	295	4:55	2	0.789	A BB	102173.	160.000	UG/L	1.24
11	172	524	8:44	3	0.869	A BB	137635.	160.000	UG/L	1.24
12	244	1032	17:12	5	0.888	A BB	328365.	160.000	UG/L	1.24
13	94	221	3:41	1	0.953	A BB	150002.	160.000	UG/L	1.24
14	93	220	3:40	1	0.948	M XX	82748.	160.000	UG/L	1.24
15	128	219	3:39	1	0.944	A BB	104212.	160.000	UG/L	1.24
16	146	228	3:48	1	0.983	A BV	122760.	160.000	UG/L	1.24
17	146	234	3:54	1	1.009	A VB	128112.	160.000	UG/L	1.24
18	108	261	4:21	1	1.125	M XX	36582.	160.000	UG/L	1.24
19	146	251	4:11	1	1.082	A BB	104681.	160.000	UG/L	1.24
20	108	278	4:38	1	1.198	A BB	105755.	160.000	UG/L	1.24
21	45	273	4:33	1	1.177	A BB	163436.	160.000	UG/L	1.24
22	108	298	4:58	1	1.284	A BB	115824.	160.000	UG/L	1.24
23	70	293	4:53	1	1.263	M XX	87067.	160.000	UG/L	1.24
24	117	282	4:42	1	1.216	A BB	42361.	160.000	UG/L	1.24
25	77	298	4:58	2	0.797	A BB	134053.	160.000	UG/L	1.24
26	82	333	5:33	2	0.890	A BB	197079.	160.000	UG/L	1.24
27	139	334	5:34	2	0.893	A BB	66656.	160.000	UG/L	1.24
28	107	358	5:58	2	0.957	A BV	83858.	160.000	UG/L	1.24
29	122	405	6:45	2	1.083	M XX	53303.	160.000	UG/L	1.24
30	93	365	6:05	2	0.976	A BB	135410.	160.000	UG/L	1.24
31	162	368	6:08	2	0.984	A BB	83798.	160.000	UG/L	1.24
32	180	372	6:12	2	0.995	A BB	84209.	160.000	UG/L	1.24
33	138	377	6:17	2	1.008	A BB	300115.	160.000	UG/L	1.24
34	137	394	6:34	2	1.053	A BB	134906.	160.000	UG/L	1.24
35	225	405	6:45	2	1.083	A BB	36185.	160.000	UG/L	1.24
36	107	471	7:51	2	1.259	A BB	70857.	160.000	UG/L	1.24
37	142	466	7:46	2	1.246	A BV	232971.	160.000	UG/L	1.24
38	237	498	8:18	3	0.826	A BB	35472.	160.000	UG/L	1.24
39	196	514	8:34	3	0.852	A BV	54197.	160.000	UG/L	1.24
40	196	519	8:39	3	0.861	A VB	27686.	160.000	UG/L	1.24
41	162	528	8:48	3	0.876	A BB	138896.	160.000	UG/L	1.24
42	65	554	9:14	3	0.919	A BB	47461.	160.000	UG/L	1.24
43	163	594	9:54	3	0.985	A BV	151310.	160.000	UG/L	1.24
44	152	581	9:41	3	0.964	A BB	229135.	160.000	UG/L	1.24
45	138	612	10:12	3	1.015	M XX	49604.	160.000	UG/L	1.24
46	153	608	10:08	3	1.008	A BB	123275.	160.000	UG/L	1.24
47	184	627	10:27	3	1.040	A VB	18840.	160.000	UG/L	1.24
48	109	658	10:58	3	1.091	M XX	10420.	160.000	UG/L	1.24
49	168	630	10:30	3	1.045	A BB	182146.	160.000	UG/L	1.24
50	165	649	10:49	3	1.076	M XX	25099.	160.000	UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	6:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	10:03	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
[illegible]	13:19	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	19:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:23	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	2:15	1.00	0.582	1.00	160.00	160.00	1.684	1.684	1.00
8	3:40	1.00	0.948	1.00	160.00	160.00	1.854	1.854	1.00
9	11:53	1.00	1.182	1.00	160.00	160.00	0.165	0.165	1.00
10	4:55	1.00	0.789	1.00	160.00	160.00	0.378	0.378	1.00
11	8:44	1.00	0.869	1.00	160.00	160.00	1.132	1.132	1.00
12	17:12	1.00	0.888	1.00	160.00	160.00	1.236	1.236	1.00
13	3:41	1.00	0.953	1.00	160.00	160.00	1.895	1.895	1.00
14	3:40	1.00	0.948	1.00	160.00	160.00	1.046	1.046	1.00
15	3:39	1.00	0.944	1.00	160.00	160.00	1.317	1.317	1.00
16	3:48	1.00	0.983	1.00	160.00	160.00	1.551	1.551	1.00
17	3:54	1.00	1.009	1.00	160.00	160.00	1.619	1.619	1.00
18	4:21	1.00	1.125	1.00	160.00	160.00	0.462	0.462	1.00
19	4:11	1.00	1.082	1.00	160.00	160.00	1.323	1.323	1.00
20	4:38	1.00	1.198	1.00	160.00	160.00	1.336	1.336	1.00
21	4:33	1.00	1.177	1.00	160.00	160.00	2.065	2.065	1.00
22	4:58	1.00	1.284	1.00	160.00	160.00	1.464	1.464	1.00
23	4:53	1.00	1.263	1.00	160.00	160.00	1.100	1.100	1.00
24	4:42	1.00	1.216	1.00	160.00	160.00	0.535	0.535	1.00
25	4:58	1.00	0.797	1.00	160.00	160.00	0.496	0.496	1.00
26	5:33	1.00	0.890	1.00	160.00	160.00	0.729	0.729	1.00
27	5:34	1.00	0.893	1.00	160.00	160.00	0.247	0.247	1.00
28	5:58	1.00	0.957	1.00	160.00	160.00	0.310	0.310	1.00
[illegible]	6:45	1.00	1.083	1.00	160.00	160.00	0.197	0.197	1.00
[illegible]	6:05	1.00	0.976	1.00	160.00	160.00	0.501	0.501	1.00
31	6:08	1.00	0.984	1.00	160.00	160.00	0.310	0.310	1.00
32	6:12	1.00	0.995	1.00	160.00	160.00	0.312	0.312	1.00
33	6:17	1.00	1.008	1.00	160.00	160.00	1.110	1.110	1.00
34	6:34	1.00	1.053	1.00	160.00	160.00	0.499	0.499	1.00
35	6:45	1.00	1.083	1.00	160.00	160.00	0.134	0.134	1.00
36	7:51	1.00	1.259	1.00	160.00	160.00	0.262	0.262	1.00
37	7:46	1.00	1.246	1.00	160.00	160.00	0.862	0.862	1.00
38	8:18	1.00	0.826	1.00	160.00	160.00	0.292	0.292	1.00
39	8:34	1.00	0.852	1.00	160.00	160.00	0.446	0.446	1.00
40	8:39	1.00	0.861	1.00	160.00	160.00	0.228	0.228	1.00
41	8:48	1.00	0.876	1.00	160.00	160.00	1.143	1.143	1.00
42	9:14	1.00	0.919	1.00	160.00	160.00	0.390	0.390	1.00
43	9:54	1.00	0.985	1.00	160.00	160.00	1.245	1.245	1.00
44	9:41	1.00	0.964	1.00	160.00	160.00	1.885	1.885	1.00
45	10:12	1.00	1.015	1.00	160.00	160.00	0.408	0.408	1.00
46	10:08	1.00	1.008	1.00	160.00	160.00	1.014	1.014	1.00
47	10:27	1.00	1.040	1.00	160.00	160.00	0.155	0.155	1.00
48	10:58	1.00	1.091	1.00	160.00	160.00	0.086	0.086	1.00
49	10:30	1.00	1.045	1.00	160.00	160.00	1.498	1.498	1.00
50	10:49	1.00	1.076	1.00	160.00	160.00	0.206	0.206	1.00

012274

Quantitation Report File: FS0526C06

Data: FS0526C06.TI
05/26/93 15:26:00
Sample: SSTD160
Lids.: ---
Formula: 05/26/93 Instrument: 4510 Weight: 1.000
Submitted by: CHESTER Analyst: JDD Acct. No.: ---

012275

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
51	C543	2,6-DINITROTOLUENE	28B
52	C580	DIETHYL PHTHALATE	24B
53	C585	4-CHLOROPHENYL PHENYL ETHER	17B
54	C590	FLUORENE	32B
55	C595	4-NITROANILINE	
56	C610	4,6-DINITRO-2-METHYLPHENOL	4A
57	C615	N-NITROSODIPHENYLAMINE	43B
58	C625	4-BROMOPHENYL PHENYL ETHER	14B
59	C630	HEXACHLOROBENZENE	33B
60	C635	PENTACHLOROPHENOL	9A
61	C640	PHENANTHRENE	44B
62	C645	ANTHRACENE	3B
63	C650	DI-N-BUTYL PHTHALATE	26B
64	C655	FLUORANTHENE	31B
65	C715	PYRENE	45B
66	C720	BUTYL BENZYL PHTHALATE	15B
67	C725	3,3'-DICHLOROBENZIDINE	23B
68	C730	BENZO(A)ANTHRACENE	5B
69	C745	BIS(2-ETHYLHEXYL)PHTHALATE	13B
70	C740	CHRYSENE	18B
71	C760	DI-N-OCTYL PHTHALATE	29B
72	C765	BENZO(B)FLUORANTHENE	7B
73	C770	BENZO(K)FLUORANTHENE	9B
74	C775	BENZO(A)PYRENE	6B
75	C780	INDENO(1,2,3-CD)PYRENE	37B
76	C785	DIBENZO(A,H)ANTHRACENE	19B
77	C790	BENZO(GHI)PERYLENE	8B
78	C310	N-NITROSODIMETHYLAMINE	41B
79	C710	BENZIDINE	4B
80	CS70	2-CHLOROPHENOL-D4 ** SU7 **	
81	CS75	1,2-DICHLOROBENZENE-D4 ** SU8 **	
82	C647	CARBAZOLE	
83	C320	ANILINE	
84	A950	PYRIDINE	
85	C620	1,2-DIPHENYL-HYDRAZINE	30B

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	599	9:59	3	0.993	M XX	40512.	160.000 UG/L	1.24
52	149	694	11:34	3	1.151	A VB	119505.	160.000 UG/L	1.24
53	204	686	11:26	3	1.138	A BB	78137.	160.000 UG/L	1.24
54	166	676	11:16	3	1.121	A BB	121630.	160.000 UG/L	1.24
55	138	701	11:41	3	1.163	M XX	37938.	160.000 UG/L	1.24
56	198	705	11:45	4	0.882	M XX	26641.	160.000 UG/L	1.24
57	169	707	11:47	4	0.885	A VB	102846.	160.000 UG/L	1.24
58	248	749	12:29	4	0.937	A BB	45627.	160.000 UG/L	1.24

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
59	284	761	12:41	4	0.952	A VB	44237.	160.000	UG/L	1.24
60	266	793	13:13	4	0.992	A BB	31262.	160.000	UG/L	1.24
61	178	803	13:23	4	1.005	A VV	340503.	160.000	UG/L	1.24
62	178	809	13:29	4	1.013	A VB	244865.	160.000	UG/L	1.24
63	149	916	15:16	4	1.146	A BB	485260.	160.000	UG/L	1.24
64	202	964	16:04	4	1.207	A BB	392450.	160.000	UG/L	1.24
65	202	991	16:31	5	0.853	A BB	409381.	160.000	UG/L	1.24
66	149	1117	18:37	5	0.961	A BB	207955.	160.000	UG/L	1.24
67	252	1171	19:31	5	1.008	A BB	114845.	160.000	UG/L	1.24
68	228	1160	19:20	5	0.998	A BV	448900.	160.000	UG/L	1.24
69	149	1210	20:10	5	1.041	A BB	316208.	160.000	UG/L	1.24
70	228	1166	19:26	5	1.003	A VB	222447.	160.000	UG/L	1.24
71	149	1292	21:32	6	0.962	A BV	485591.	160.000	UG/L	1.24
72	252	1300	21:40	6	0.968	M XX	457658.	160.000	UG/L	1.24
73	252	1305	21:45	6	0.972	M XX	220837.	160.000	UG/L	1.24
74	252	1338	22:18	6	0.996	A VB	316384.	160.000	UG/L	1.24
75	276	1464	24:24	6	1.090	A BV	305223.	160.000	UG/L	1.24
76	278	1470	24:30	6	1.095	A BB	272065.	160.000	UG/L	1.24
77	276	1494	24:54	6	1.112	A BB	284261.	160.000	UG/L	1.24
78	74	66	1:06	1	0.284	A BB	92596.	160.000	UG/L	1.24
79	184	997	16:37	5	0.858	A BB	104237.	160.000	UG/L	1.24
80	132	218	3:38	1	0.940	M XX	147553.	160.000	UG/L	1.24
81	152	250	4:10	1	1.078	M XX	64411.	160.000	UG/L	1.24
82	167	840	14:00	4	1.051	M XX	327606.	160.000	UG/L	1.24
83	93	220	3:40	1	0.948	M XX	82788.	160.000	UG/L	1.24
84	79	66	1:06	1	0.284	M XX	148760.	160.000	UG/L	1.24
85	77	707	11:47	4	0.885	M XX	173794.	160.000	UG/L	1.24

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:59	1.00	0.993	1.00	160.00	160.00	0.333	0.333	1.00
52	11:34	1.00	1.151	1.00	160.00	160.00	0.983	0.983	1.00
53	11:26	1.00	1.138	1.00	160.00	160.00	0.643	0.643	1.00
54	11:16	1.00	1.121	1.00	160.00	160.00	1.001	1.001	1.00
55	11:41	1.00	1.163	1.00	160.00	160.00	0.312	0.312	1.00
56	11:45	1.00	0.882	1.00	160.00	160.00	0.111	0.111	1.00
57	11:47	1.00	0.885	1.00	160.00	160.00	0.429	0.429	1.00
58	12:29	1.00	0.937	1.00	160.00	160.00	0.190	0.190	1.00
59	12:41	1.00	0.952	1.00	160.00	160.00	0.185	0.185	1.00
60	13:13	1.00	0.992	1.00	160.00	160.00	0.130	0.130	1.00
61	13:23	1.00	1.005	1.00	160.00	160.00	1.421	1.421	1.00
62	13:29	1.00	1.013	1.00	160.00	160.00	1.022	1.022	1.00
63	15:16	1.00	1.146	1.00	160.00	160.00	2.025	2.025	1.00
64	16:04	1.00	1.207	1.00	160.00	160.00	1.637	1.637	1.00
65	16:31	1.00	0.853	1.00	160.00	160.00	1.541	1.541	1.00
66	18:37	1.00	0.961	1.00	160.00	160.00	0.783	0.783	1.00
67	19:31	1.00	1.008	1.00	160.00	160.00	0.432	0.432	1.00
68	19:20	1.00	0.998	1.00	160.00	160.00	1.690	1.690	1.00
69	20:10	1.00	1.041	1.00	160.00	160.00	1.190	1.190	1.00
70	19:26	1.00	1.003	1.00	160.00	160.00	0.837	0.837	1.00
71	21:32	1.00	0.962	1.00	160.00	160.00	1.773	1.773	1.00
72	21:40	1.00	0.968	1.00	160.00	160.00	1.671	1.671	1.00
73	21:45	1.00	0.972	1.00	160.00	160.00	0.806	0.806	1.00
74	22:18	1.00	0.996	1.00	160.00	160.00	1.155	1.155	1.00
75	24:24	1.00	1.090	1.00	160.00	160.00	1.115	1.115	1.00
76	24:30	1.00	1.095	1.00	160.00	160.00	0.994	0.994	1.00
77	24:54	1.00	1.112	1.00	160.00	160.00	1.038	1.038	1.00

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No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
78	1:06	1.00	0.284	1.00	160.00	160.00	1.170	1.170	1.00
79	16:37	1.00	0.858	1.00	160.00	160.00	0.392	0.392	1.00
80	3:38	1.00	0.940	1.00	160.00	160.00	1.865	1.865	1.00
[illegible]	4:10	1.00	1.078	1.00	160.00	160.00	0.814	0.814	1.00
82	14:00	1.00	1.051	1.00	160.00	160.00	1.367	1.367	1.00
83	3:40	1.00	0.948	1.00	160.00	160.00	1.046	1.046	1.00
84	1:06	1.00	0.284	1.00	160.00	160.00	1.880	1.880	1.00
85	11:47	1.00	0.885	1.00	160.00	160.00	0.725	0.725	1.00

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