WA 6819
9/14/04 10A
~~8A~~

City of Seattle

Gregory J. Nickels, Mayor

Seattle City Light
Jorge Carrasco, Superintendent

September 14, 2004

CERTIFIED MAIL

RECEIVED
SEP 15 2004
OFFICE OF WASTE & CHEM. MGMT.

FILE COPY

Anna Filutowski
RCRA Compliance Unit, AWT-121
U.S. Environmental Protection Agency, Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Dear Ms. Filutowski: Anna

Boeing Plant II - West Boeing Substation
Transformer Oil and Pad Sampling March - June 2004

The purpose of this letter is to transmit copies of Seattle City Light (SCL) laboratory reports and raw data for West Boeing Substation PCB analysis of: 1) transformer oil samples taken by SCL on March 10 and April 27, 2004, 2) wipe samples of exterior surfaces taken by SCL on April 1, 2004, and 3) concrete pad and surface material samples taken by Weston Solutions on June 1, 2004; requested by Boeing and coordinated with SCL earlier this year.

The objective of the sampling was to respond to a request from Boeing for more information on the SCL-owned transformers at the West Boeing Substation, and the concrete pad remaining after transformer removal and decommissioning of the substation. Trained SCL personnel took oil and wipe samples on the three dates noted above, provided splits of all samples to Boeing through Weston Solutions, and sent SCL's split samples by courier to OnSite Environmental for analysis. Weston Solutions took samples of the concrete pad and one surface material sample from the top of the pad, and provided split samples to SCL that were also analyzed by OnSite.

Laboratory reports received by SCL for the SCL split samples include all raw data and are enclosed for your information as requested. We have not seen the laboratory reports for the samples Boeing sent for analysis, but are encouraged by the OnSite results enclosed. All of the transformer oil and wipe samples were non-detect for PCBs, with a detection limit of 1 ppm for the oil and 2 ug/100 sq cm for the wipe samples. For the pad, we note one of five concrete samples provided to us by Weston showed a trace amount of PCBs (<0.74 ppm). PCBs were not detected in the other four concrete pad samples, at a detection limit of 0.05 mg/kg. The result for the one surface material sample from the pad was 1.04 ppm total PCBs.

700 Fifth Avenue, PO Box 34023, Seattle, WA 98124-4023
Tel: (206) 684-3000, TTY: (206) 233-7241, Fax: (206) 625-3709
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USEPA RCRA 3013455

We do not read these data as providing evidence of a "release" from the West Boeing Substation transformers as hypothesized in earlier reports by Weston Solutions and Boeing. We are happy to discuss this matter with you further.

Also enclosed are copies of 1946 and 1956 aerial photographs of this site that may be helpful in piecing together the site history. Construction of the substation was completed in 1953. Note that the 1946 photograph shows use of the substation site prior to construction of the substation.

Please feel free to contact me at (206) 386-4585 or via email at laurie.geissinger@seattle.gov. I would appreciate any opportunity to discuss this with you. In addition, I would like to receive copies of independent laboratory reports and raw data you may have received for the Boeing split samples from the substation. It would be helpful to see if the results are consistent. I have requested but not received this information from Boeing. Thank you very much.

Sincerely,

Laurie Geissinger

Laurie Geissinger
Senior Planning and Development Specialist
Seattle City Light

Enclosures (5)

cc: Howard Orlean, EPA

Concrete pad + material

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 8, 2004

Ross Cayetano
Seattle City Light
3613 4th Avenue S.
Seattle, WA 98134

Re: Analytical Data for Project SCL 756
Laboratory Reference No. 0406-002

Dear Ross:

Enclosed are the analytical results and associated quality control data for samples submitted on June 1, 2004.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Blair Goodrow
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 8, 2004
Samples Submitted: June 1, 2004
Laboratory Reference: 0406-002
Project: SCL 756

Case Narrative

Samples were received by the laboratory on June 1, 2004. They were maintained at the laboratory at a temperature of 4°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a footnote reference and will be included on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PCBs EPA 8082 Analysis

Due to the concrete dust nature of the samples, a spike blank (SB) and spike blank duplicate (SBD) were performed instead of a MS/MSD pair.

The percent difference values for the following analytes were greater than the quality control limit of -15% (high bias) on both columns in the following continuing calibration verification standard (CCV):

PCBCCV-0607-3: DCB

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 8, 2004
Samples Submitted: June 1, 2004
Laboratory Reference: 0406-002
Project: SCL 756

PCBs by EPA 8082
Sample Summary

Date Extracted: 6-3-04
Date Analyzed: 6-4&7-04

Matrix: Solid
Units: mg/kg (ppm)

Lab ID	Client ID	Results	PCB Type	Surrogate % Recovery	PQL	Comments/ Flags
06-002-01	060104-1	ND	-----	81	0.050	
06-002-02	060104-2	0.73	1260	74	0.050	
06-002-03	060104-3	ND	-----	71	0.050	
06-002-04	060104-4	ND	-----	78	0.050	
06-002-05	060104-5	ND	-----	90	0.050	
06-002-06	060104-6	0.36	1254	51	0.050	
		0.68	1260	51	0.050	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 8, 2004
Samples Submitted: June 1, 2004
Laboratory Reference: 0406-002
Project: SCL 756

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted:	6-3-04
Date Analyzed:	6-4-04
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0603S1

	Result	PQL
Aroclor 1016:	**ND**	0.050
Aroclor 1221:	**ND**	0.050
Aroclor 1232:	**ND**	0.050
Aroclor 1242:	**ND**	0.050
Aroclor 1248:	**ND**	0.050
Aroclor 1254:	**ND**	0.050
Aroclor 1260:	**ND**	0.050

Surrogate	**Percent Recovery**	**Control Limits**
Decachlorobiphenyl	85	41-128

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 8, 2004
Samples Submitted: June 1, 2004
Laboratory Reference: 0406-002
Project: SCL 756

PCBs by EPA 8082
SB/SBD QUALITY CONTROL

Date Extracted: 6-3-04
Date Analyzed: 6-4-04

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: SB0603S1

Spike Level: 0.500

	SB	Percent Recovery	SBD	Percent Recovery	RPD
Aroclor 1260:	0.421	84	0.397	79	6
PQL	0.050		0.050		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	86	82	41-128

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD is outside control limits due to sample inhomogeneity.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with a silica gel/acid cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

06-002

Seattle City Light
CHAIN OF CUSTODY REPORT

Reports Required by 9:00 AM, - -2004

Date to Lab: 6 -01 -2004

Laboratory: OnSite Environmental, Inc.
Contact: David Baumeister Phone: (425) 883-3881

CLIENT: Seattle City Light	**REPORT TO:**	PCB/OIL: Analysis by EPA 600/4-81-44
PROJECT:	Seattle City Light, TSU	PCB/SOIL: Analysis by EPA 8082
CONTACT: Ross Cayetano	Attn: Ross Cayetano	PCB/H2O: Analysis by EPA 8082
PHONE: (206) 386-1707	3613 4th Ave. South	TPH/SOIL: Analysis by WTPH-D extended
FAX: (206) 386-1757	Seattle WA 98134	TPH/H2O: Analysis by WTPH-D extended

#	EQUIPMENT NUMBER	SCL TEST ID NUMBER	SAMPLE MATRIX	Number of Containers	ANALYSIS REQUESTED	Dry Wt	COMMENTS	LAB SAMPLE # (For Lab Use Only)
1	PL2.CC-01	060104-1	SOLID	1	PCB	X		
2	PL2_CC-02	2	SOLID	1		X		
3	PL2-CC-03	3	SOLID	1		X		
4	PL2.CC-04	4	SOLID	1		X		
5	PL2.CC-05	5	SOLID	1		X		
6	PL2-WS-01	6	SOLID	1		X		
7								
8								
9								
0								

Relinquished By Firm: SCL	**Relinquished By** Firm:	***** ADDITIONAL REMARKS *****
SIGNATURE: [signature]	SIGNATURE:	ALSO NOTIFY:
PRINTED NAME: Ross Cayetano	PRINTED NAME:	PHONE:
DATE: 6/1/04 TIME: 8:05	DATE: TIME:	FAX:
Received By Firm: OnSite Env	**Received By** Firm:	
SIGNATURE: [signature]	SIGNATURE:	
PRINTED NAME: Kelley Wilt	PRINTED NAME:	
DATE: 6/1/04 TIME: 8:05 AM	DATE: TIME:	

Page 1 of 1

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604010.D\ECD1A.CH Vial: 10
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604010.D\ECD2B.CH
Acq On : 4 Jun 2004 12:31 pm Operator:
Sample : 06-002-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 12:52 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.15	3.50	53090	110088	0.069	0.067
Spiked Amount 0.100			Recovery	=	69.00%	67.00%
3) S DCB	13.23	15.12	85971	117176	0.081	0.079
Spiked Amount 0.100			Recovery	=	81.00%	79.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
L2 Aroclor-1221	2.61f	2.95	577	587	0.076	0.063
L2 Aroclor-1221 {3}	4.02	4.07	2798	2164	0.097	0.070 #
10) L2 Aroclor-1221 {4}	4.83f	4.41	239	7760	0.034	0.141 #
11) L2 Aroclor-1221 {5}	5.38	5.10f	227	798	0.031	0.040 #
Sum Aroclor-1221			3841	11310	0.239	0.315
Average Aroclor-1221					0.060	0.079
12) L3 Aroclor-1232	0.00	2.95f	0	587	N.D.	0.106 #
L3 Aroclor-1232 {2}	3.15	3.50	53090	110088	0.375	0.362
14) L3 Aroclor-1232 {3}	0.00	4.07	0	2164	N.D.	0.089 #
15) L3 Aroclor-1232 {4}	4.02	4.41	2798	7760	0.111	0.156 #
L3 Aroclor-1232 {5}	0.00	5.10f	0	798	N.D.	0.017 #
Sum Aroclor-1232			55888	121398	0.486	0.730
Average Aroclor-1232					0.243	0.146
L4 Aroclor-1242	4.02	4.07	2798	2164	0.159	0.168
L4 Aroclor-1242 {2}	0.00	4.41	0	7760	N.D.	0.208 #
19) L4 Aroclor-1242 {3}	0.00	5.10f	0	798	N.D.	0.011 #
20) L4 Aroclor-1242 {4}	5.38	0.00	227	0	0.003	N.D. #
L4 Aroclor-1242 {5}	5.57f	0.00	224	0	0.007	N.D. #
Sum Aroclor-1242			3249	10723	0.169	0.387
Average Aroclor-1242					0.056	0.129
L5 Aroclor-1248	5.94f	0.00	209	0	0.004	N.D. #
L5 Aroclor-1248 {2}	6.36	6.38	310	593	0.005	0.007 #
24) L5 Aroclor-1248 {3}	6.52	0.00	111	0	0.002	N.D. #
L5 Aroclor-1248 {4}	6.87	7.44	138	1005	0.004	0.007 #
L5 Aroclor-1248 {5}	0.00	7.54	0	555	N.D.	0.005 #
Sum Aroclor-1248			768	2153	0.015	0.019
Average Aroclor-1248					0.004	0.006
L6 Aroclor-1254	7.35	7.44	1306	1005	0.019	0.015

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604010.D\ECD1A.CH Vial: 10
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604010.D\ECD2B.CH
Acq On : 4 Jun 2004 12:31 pm Operator:
Sample : 06-002-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 12:52 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm	
[illegible]) L6 Aroclor-1254 {2}	8.13	7.84	2584	2812	0.026	0.021	
[illegible]) L6 Aroclor-1254 {3}	8.39	8.51	3184	1534	0.065	0.015	#
30) L6 Aroclor-1254 {4}	8.57	8.71	1719	4034	0.024	0.023	
31) L6 Aroclor-1254 {5}	8.79	9.04	4685	6414	0.090	0.042	#
Sum Aroclor-1254			13479	15799	0.225	0.116	
Average Aroclor-1254					0.045	0.023	
[illegible]) L7 Aroclor-1260	8.39	0.00	3184	0	0.019	N.D.	#
[illegible]) L7 Aroclor-1260 {2}	8.79	9.04	4685	6414	0.029	0.011	#
34) L7 Aroclor-1260 {3}	9.99	9.28	2951	10162	0.028	0.025	
35) L7 Aroclor-1260 {4}	10.49	10.11	7828	8926	0.035	0.032	LDL
[illegible]) L7 Aroclor-1260 {5}	11.08f	11.02	5711	17649	0.049	0.036	#
Sum Aroclor-1260			24359	43152	0.158	0.103	
Average Aroclor-1260					0.032	0.026	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

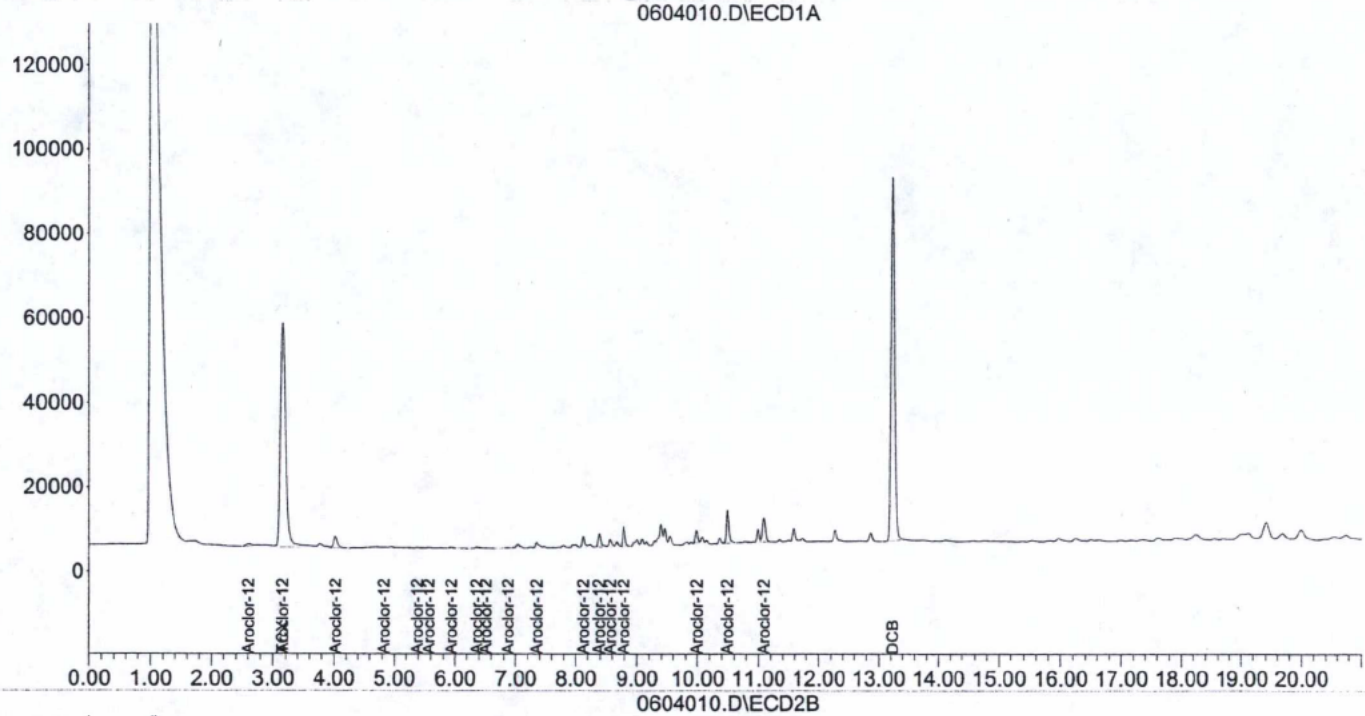
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604010.D\ECD1A.CH Vial: 10
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604010.D\ECD2B.CH
Acq On : 4 Jun 2004 12:31 pm Operator:
Sample : 06-002-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 12:52 2004 Quant Results File: PC040507.RES

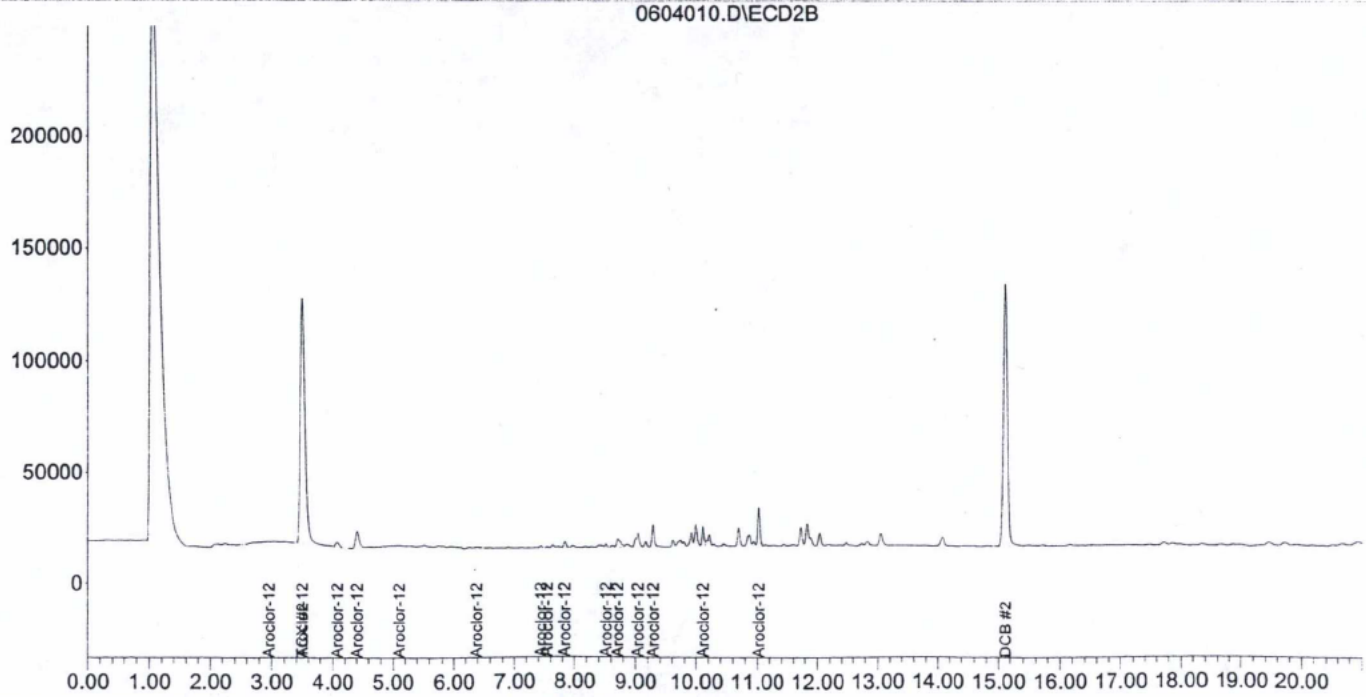
Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0604010.D\ECD1A



0604010.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604011.D\ECD1A.CH Vial: 11
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604011.D\ECD2B.CH
Acq On : 4 Jun 2004 12:55 pm Operator:
Sample : 06-002-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 13:16 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.16	3.50	40434	68226	0.052	0.040
Spiked Amount 0.100			Recovery	=	52.00%	40.00%
3) S DCB	13.24	15.13	78390	101599	0.074	0.068
Spiked Amount 0.100			Recovery	=	74.00%	68.00%
Target Compounds						
7) L1 Aroclor-1016 {4}	5.96	6.31	1862	1566	0.019	N.D. #
8) L1 Aroclor-1016 {5}	6.39	6.48	1623	2740	0.018	0.023 #
Sum Aroclor-1016			3485	2740	0.037	0.023
Average Aroclor-1016					0.019	0.023
9) L2 Aroclor-1221 {3}	4.04	4.12f	1306	1272	0.045	0.041
10) L2 Aroclor-1221 {4}	0.00	4.42	0	2356	N.D.	0.043 #
11) L2 Aroclor-1221 {5}	5.40	0.00	519	0	0.071	N.D. #
Sum Aroclor-1221			1825	3629	0.117	0.084
Average Aroclor-1221					0.058	0.042
14) L3 Aroclor-1232 {2}	3.16	3.50	40434	68226	0.286	0.225
14) L3 Aroclor-1232 {3}	0.00	4.12f	0	1272	N.D.	0.052 #
15) L3 Aroclor-1232 {4}	4.04	4.42	1306	2356	0.052	0.047
16) L3 Aroclor-1232 {5}	4.60f	0.00	404	0	0.020	N.D. #
Sum Aroclor-1232			42145	71855	0.358	0.324
Average Aroclor-1232					0.119	0.108
19) L4 Aroclor-1242	4.04	4.12f	1306	1272	0.074	0.099 #
19) L4 Aroclor-1242 {2}	4.60f	4.42	404	2356	0.011	0.063 #
20) L4 Aroclor-1242 {4}	5.40	0.00	519	0	0.007	N.D. #
21) L4 Aroclor-1242 {5}	5.60	5.81	81	1037	0.003	0.007 #
Sum Aroclor-1242			2310	4666	0.094	0.169
Average Aroclor-1242					0.024	0.056
22) L5 Aroclor-1248	5.96	5.81	1862	1037	0.032	0.010 #
23) L5 Aroclor-1248 {2}	6.39	6.40	1623	3341	0.028	0.039 #
24) L5 Aroclor-1248 {3}	6.55	6.92	1162	4907	0.025	0.045 #
25) L5 Aroclor-1248 {4}	6.90	7.47	2613	15266	0.075	0.112 #
26) L5 Aroclor-1248 {5}	7.06	7.57	14935	10289	0.192	0.089 #
Sum Aroclor-1248			22196	34840	0.352	0.296
Average Aroclor-1248					0.070	0.059
29) L6 Aroclor-1254	7.38	7.47	23315	15266	0.347	0.229 #
29) L6 Aroclor-1254 {2}	8.15	7.86	53292	39929	0.545	0.296 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604011.D\ECD1A.CH Vial: 11
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604011.D\ECD2B.CH
Acq On : 4 Jun 2004 12:55 pm Operator:
Sample : 06-002-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 13:16 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
2) L6 Aroclor-1254 {3}	8.41	8.53	41346	33794	0.848	0.340 #
3) L6 Aroclor-1254 {4}	8.59	8.73	42214	68539	0.585	0.391 #
31) L6 Aroclor-1254 {5}	8.81	9.02	66484	71483	1.273	0.469 #
Sum Aroclor-1254			226650	229011	3.598	1.725
Average Aroclor-1254					0.720	0.345
32) L7 Aroclor-1260	8.41	8.73f	41346	68539	0.518	0.779 #
33) L7 Aroclor-1260 {2}	8.81	9.06	66484	68562	0.670	0.456 #
34) L7 Aroclor-1260 {3}	10.00	9.30	56308	103321	0.705	0.528 #
35) L7 Aroclor-1260 {4}	10.50	10.12	122345	94912	0.711	0.603
36) L7 Aroclor-1260 {5}	11.09	11.03	106923	193043	1.026	0.604 #
Sum Aroclor-1260			393406	528377	3.630	2.969
Average Aroclor-1260					0.726	0.594

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

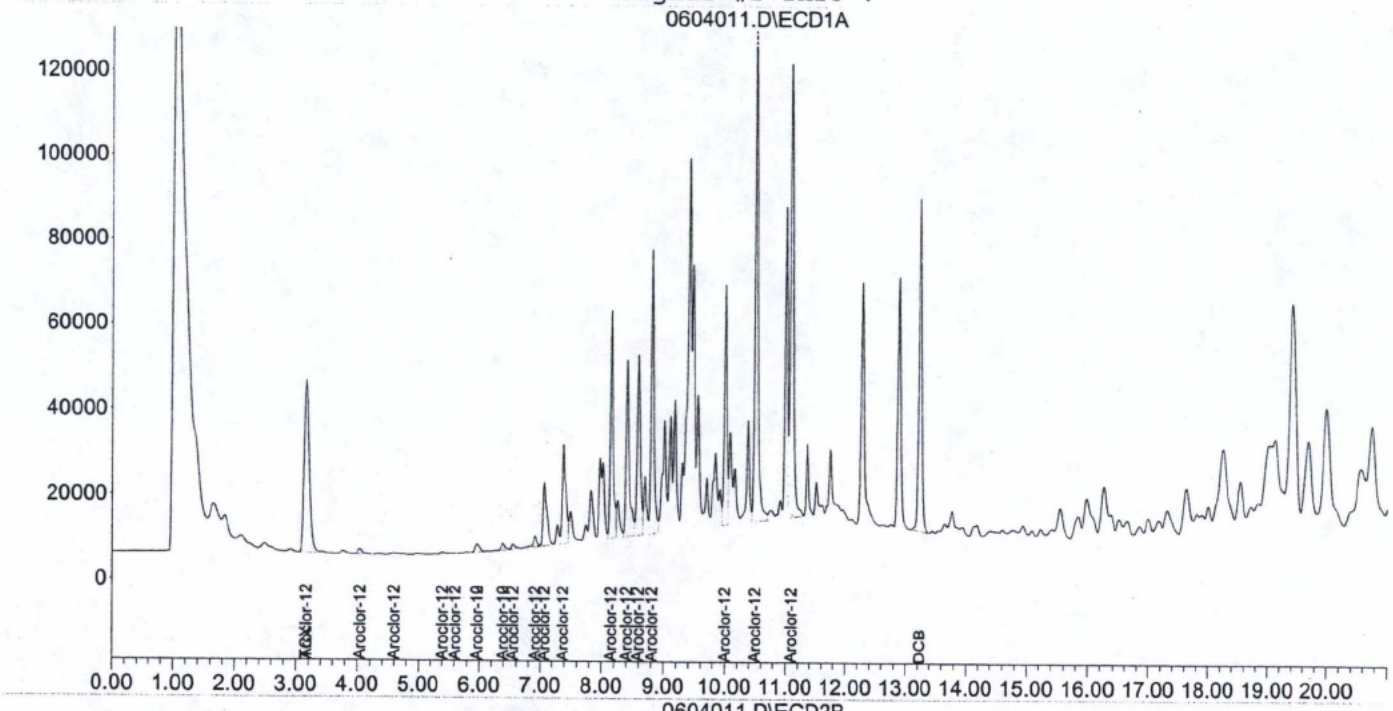
Quantitation Report

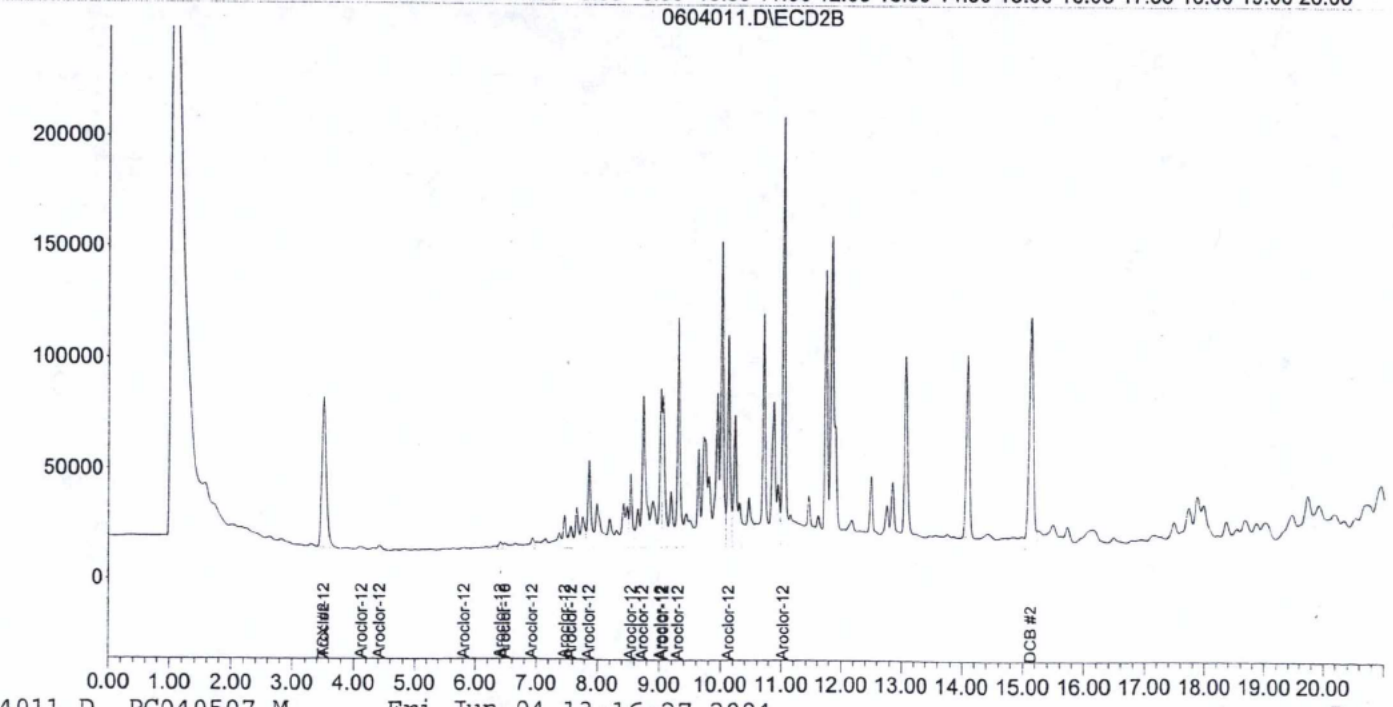
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604011.D\ECD1A.CH Vial: 11
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604011.D\ECD2B.CH
Acq On : 4 Jun 2004 12:55 pm Operator:
Sample : 06-002-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 13:16 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040607\0607025.D\ECD1A.CH Vial: 25
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040607\0607025.D\ECD2B.CH
Acq On : 7 Jun 2004 7:36 pm
Sample : 06-002-03
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 7 19:57 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.18	3.54	30864	51208	0.040	0.029 #
Spiked Amount 0.100			Recovery	=	40.00%	29.00%
2) S DCB	13.23	15.12	75228	104345	0.071	0.070
Spiked Amount 0.100			Recovery	=	71.00%	70.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
9) L2 Aroclor-1221 {3}	0.00	4.12f	0	908	N.D.	0.029 #
10) L2 Aroclor-1221 {4}	0.00	4.43	0	961	N.D.	0.018 #
11) L2 Aroclor-1221 {5}	5.43f	0.00	271	0	0.037	N.D. #
Sum Aroclor-1221			271	1869	0.037	0.047
Average Aroclor-1221					0.037	0.023
13) L3 Aroclor-1232 {2}	3.18	3.54	30864	51208	0.218	0.169
14) L3 Aroclor-1232 {3}	0.00	4.12f	0	908	N.D.	0.037 #
15) L3 Aroclor-1232 {4}	4.07f	4.43	255	961	0.010	0.019 #
16) L3 Aroclor-1232 {5}	4.64	0.00	110	0	0.005	N.D. #
Sum Aroclor-1232			31229	53077	0.234	0.225
Average Aroclor-1232					0.078	0.075
17) L4 Aroclor-1242	4.07f	4.12f	255	908	0.014	0.070 #
18) L4 Aroclor-1242 {2}	4.64	4.43	110	961	0.003	0.026 #
19) L4 Aroclor-1242 {3}	5.03	0.00	254	0	0.015	N.D. #
20) L4 Aroclor-1242 {4}	5.43f	5.56f	271	524	0.003	0.014 #
21) L4 Aroclor-1242 {5}	5.60	5.83	59	419	0.002	0.003 #
Sum Aroclor-1242			949	2811	0.038	0.113
Average Aroclor-1242					0.008	0.028
22) L5 Aroclor-1248	5.97	5.83	412	419	0.007	0.004 #
23) L5 Aroclor-1248 {2}	6.39	0.00	349	0	0.006	N.D. #
24) L5 Aroclor-1248 {3}	6.57f	6.94f	266	902	0.006	0.008 #
25) L5 Aroclor-1248 {4}	6.92f	7.47	482	1827	0.014	0.013
26) L5 Aroclor-1248 {5}	7.08	7.55	932	2339	0.012	0.020 #
Sum Aroclor-1248			2441	5487	0.045	0.046
Average Aroclor-1248					0.009	0.012
27) L6 Aroclor-1254	7.39	7.47	1220	1827	0.018	0.027 #
28) L6 Aroclor-1254 {2}	8.16	7.87	2214	2985	0.023	0.022
29) L6 Aroclor-1254 {3}	8.42	8.55	1769	2570	0.036	0.026 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040607\0607025.D\ECD1A.CH Vial: 25
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040607\0607025.D\ECD2B.CH
Acq On : 7 Jun 2004 7:36 pm Operator:
Sample : 06-002-03 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 7 19:57 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
1) L6 Aroclor-1254 {4}	8.60	8.77f	1456	3414	0.020	0.019
1) L6 Aroclor-1254 {5}	8.81	9.01	2486	6241	0.048	0.041
Sum Aroclor-1254			9145	17037	0.145	0.136
Average Aroclor-1254					0.029	0.027
1) L7 Aroclor-1260	8.42	8.77	1769	3414	0.000	0.011 #
33) L7 Aroclor-1260 {2}	8.81	9.06	2486	4312	0.006	N.D. #
34) L7 Aroclor-1260 {3}	0.00	9.30	0	5977	N.D.	0.002 #
1) L7 Aroclor-1260 {4}	10.50	10.12	3477	5015	0.009	0.006 #
36) L7 Aroclor-1260 {5}	0.00	11.03	0	9726	N.D.	0.010 #
Sum Aroclor-1260			7732	24132	0.015	0.025
Average Aroclor-1260					0.005	0.006

LDL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040607\0607025.D\ECD1A.CH Vial: 25
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040607\0607025.D\ECD2B.CH
Acq On : 7 Jun 2004 7:36 pm
Sample : 06-002-03
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

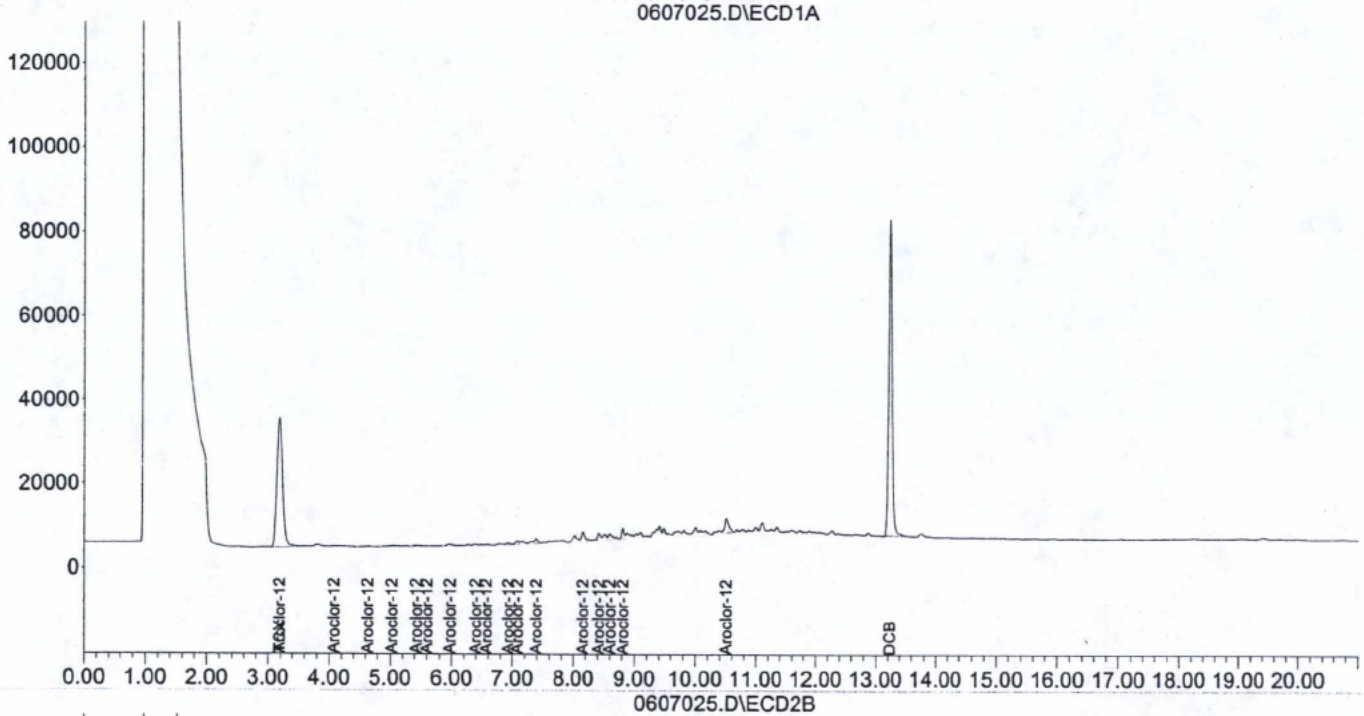
Quant Time: Jun 7 19:57 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

0607025.D\ECD1A



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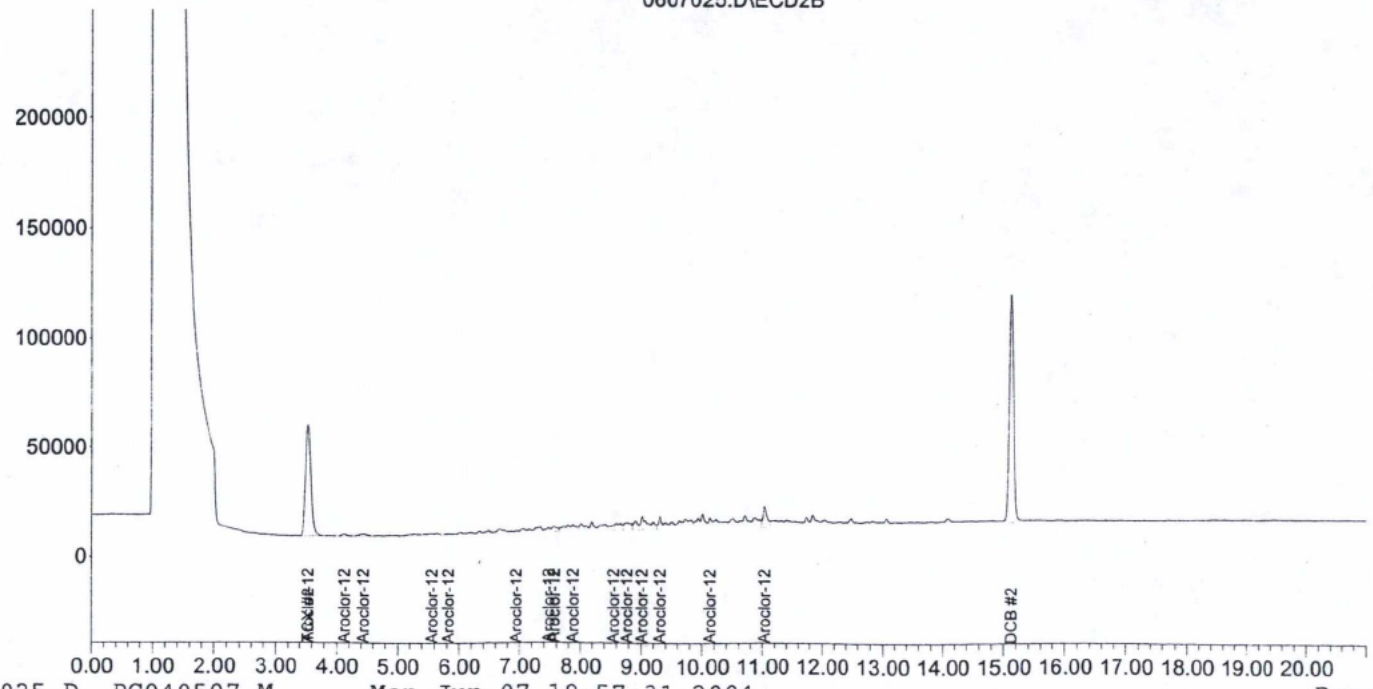


Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604015.D\ECD1A.CH Vial: 15
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604015.D\ECD2B.CH
Acq On : 4 Jun 2004 2:29 pm Operator:
Sample : 06-002-04 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 14:51 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.16	3.51	50228	105000	0.065	0.064
Spiked Amount 0.100			Recovery	=	65.00%	64.00%
1) S DCB	13.23	15.12	82526	111338	0.078	0.075
Spiked Amount 0.100			Recovery	=	78.00%	75.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
9) L2 Aroclor-1221	2.62f	2.94	534	542	0.071	0.059
10) L2 Aroclor-1221 {3}	4.03	4.08	551	1964	0.019	0.064 #
10) L2 Aroclor-1221 {4}	4.84f	4.41	474	1500	0.067	0.027 #
11) L2 Aroclor-1221 {5}	5.38	0.00	460	0	0.063	N.D. #
Sum Aroclor-1221			2019	4007	0.220	0.150
Average Aroclor-1221					0.055	0.050
12) L3 Aroclor-1232	0.00	2.94f	0	542	N.D.	0.098 #
13) L3 Aroclor-1232 {2}	3.16	3.51	50228	105000	0.355	0.346
14) L3 Aroclor-1232 {3}	0.00	4.08	0	1964	N.D.	0.080 #
15) L3 Aroclor-1232 {4}	4.03	4.41	551	1500	0.022	0.030 #
Sum Aroclor-1232			50779	109006	0.377	0.554
Average Aroclor-1232					0.188	0.138
17) L4 Aroclor-1242	4.03	4.08	551	1964	0.031	0.152 #
18) L4 Aroclor-1242 {2}	0.00	4.41	0	1500	N.D.	0.040 #
19) L4 Aroclor-1242 {4}	5.38	0.00	460	0	0.006	N.D. #
21) L4 Aroclor-1242 {5}	5.59f	5.80	332	496	0.010	0.003 #
Sum Aroclor-1242			1343	3961	0.047	0.196
Average Aroclor-1242					0.016	0.065
22) L5 Aroclor-1248	5.94f	5.80	516	496	0.009	0.005 #
23) L5 Aroclor-1248 {2}	6.37	6.38	499	615	0.009	0.007
24) L5 Aroclor-1248 {3}	6.52	6.89	183	578	0.004	0.005 #
25) L5 Aroclor-1248 {4}	6.88	7.44	186	2043	0.005	0.015 #
26) L5 Aroclor-1248 {5}	7.04f	7.55	1670	970	0.021	0.008 #
Sum Aroclor-1248			3054	4702	0.048	0.041
Average Aroclor-1248					0.010	0.008
27) L6 Aroclor-1254	7.36	7.44	1953	2043	0.029	0.031
28) L6 Aroclor-1254 {2}	8.13	7.84	3319	4757	0.034	0.035
29) L6 Aroclor-1254 {3}	8.39	8.52	3323	5168	0.068	0.052

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604015.D\ECD1A.CH Vial: 15
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604015.D\ECD2B.CH
Acq On : 4 Jun 2004 2:29 pm Operator:
Sample : 06-002-04 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 14:51 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
[redacted]) L6 Aroclor-1254 {4}	8.57	8.71	1928	8243	0.027	0.047 #
[redacted]) L6 Aroclor-1254 {5}	8.79	9.04f	4260	9834	0.082	0.065
Sum Aroclor-1254			14783	30044	0.239	0.229
Average Aroclor-1254					0.048	0.046
[redacted]) L7 Aroclor-1260	8.39	0.00	3323	0	0.021	N.D. #
33) L7 Aroclor-1260 {2}	8.79	9.04	4260	9834	0.024	0.035 #
[redacted]) L7 Aroclor-1260 {3}	9.99	9.29	2560	11319	0.023	0.031 #
[redacted]) L7 Aroclor-1260 {4}	10.49	10.11	5825	6781	0.023	0.018
[redacted]) L7 Aroclor-1260 {5}	11.09f	11.02	3992	14370	0.032	0.025
Sum Aroclor-1260			19960	42303	0.122	0.109
Average Aroclor-1260					0.024	0.027

LDL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

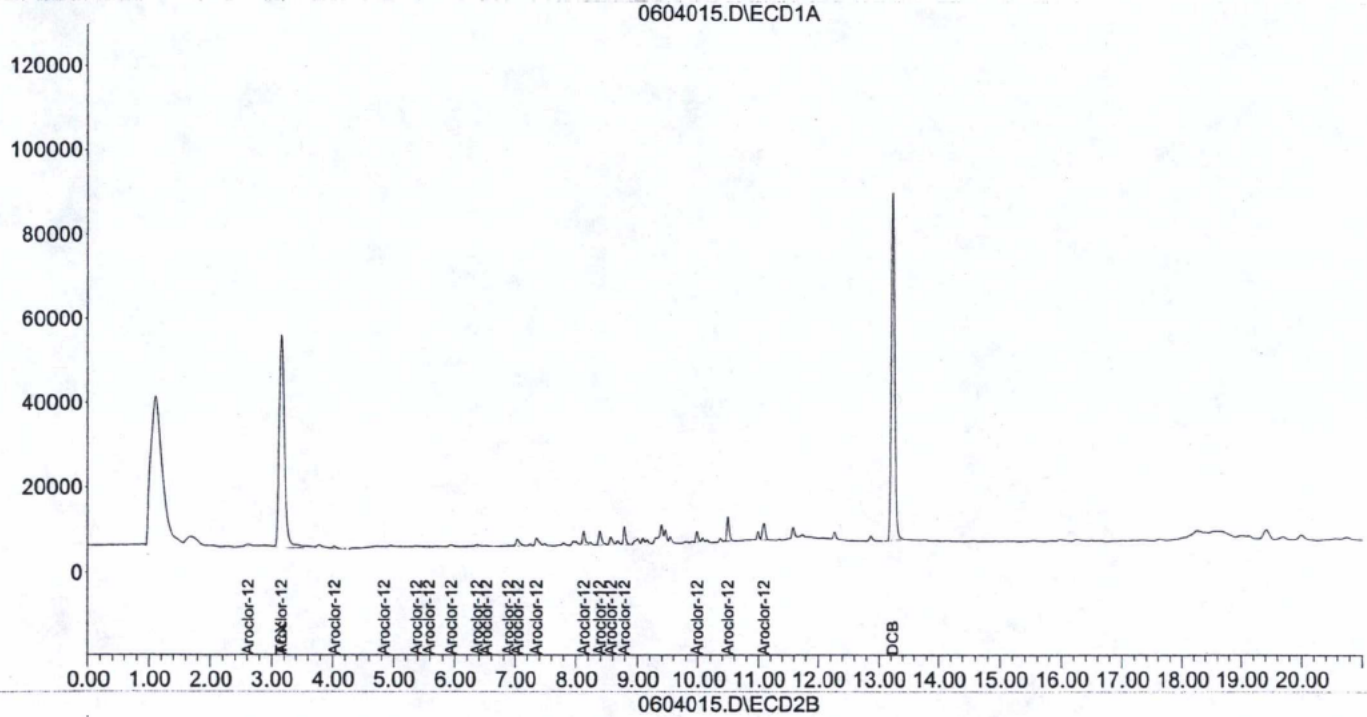
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604015.D\ECD1A.CH Vial: 15
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604015.D\ECD2B.CH
Acq On : 4 Jun 2004 2:29 pm Operator:
Sample : 06-002-04 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 14:51 2004 Quant Results File: PC040507.RES

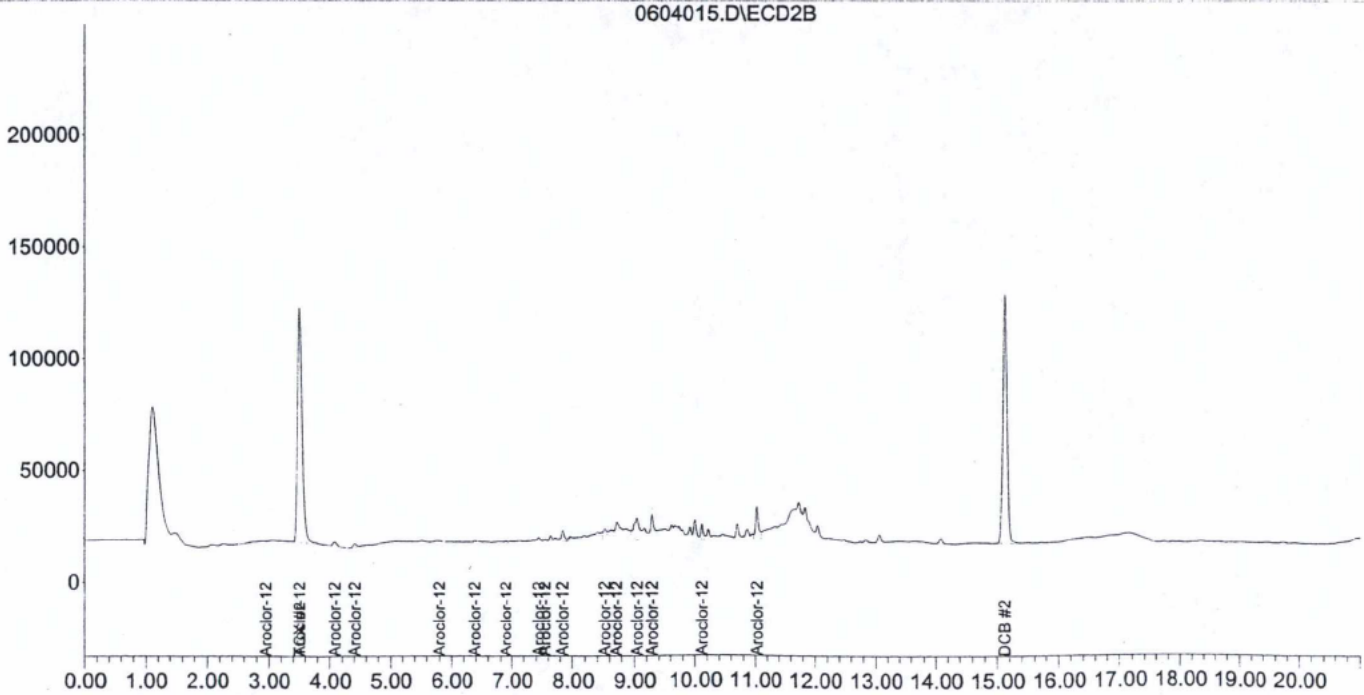
Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0604015.D\ECD1A



0604015.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604016.D\ECD1A.CH Vial: 16
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604016.D\ECD2B.CH
Acq On : 4 Jun 2004 2:53 pm Operator:
Sample : 06-002-05 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 15:14 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.15	3.50	59539	123116	0.077	0.076
Spiked Amount 0.100			Recovery	=	77.00%	76.00%
3) S DCB	13.23	15.12	95328	128182	0.090	0.088
Spiked Amount 0.100			Recovery	=	90.00%	88.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
[redacted]) L2 Aroclor-1221	2.61f	2.92f	719	735	0.095	0.079
[redacted]) L2 Aroclor-1221 {3}	0.00	4.08	0	2317	N.D.	0.075 #
10) L2 Aroclor-1221 {4}	4.84f	4.41	451	654	0.064	0.012 #
11) L2 Aroclor-1221 {5}	5.38	5.16f	322	1624	0.044	0.082 #
Sum Aroclor-1221			1492	5329	0.204	0.249
Average Aroclor-1221					0.068	0.062
12) L3 Aroclor-1232 {2}	3.15	3.50	59539	123116	0.421	0.405
[redacted]) L3 Aroclor-1232 {3}	0.00	4.08	0	2317	N.D.	0.095 #
[redacted]) L3 Aroclor-1232 {4}	0.00	4.41	0	654	N.D.	0.013 #
16) L3 Aroclor-1232 {5}	0.00	5.16f	0	1624	N.D.	0.035 #
Sum Aroclor-1232			59539	127710	0.421	0.548
Average Aroclor-1232					0.421	0.137
17) L4 Aroclor-1242	0.00	4.08	0	2317	N.D.	0.180 #
[redacted]) L4 Aroclor-1242 {2}	0.00	4.41	0	654	N.D.	0.018 #
[redacted]) L4 Aroclor-1242 {3}	0.00	5.16f	0	1624	N.D.	0.021 #
20) L4 Aroclor-1242 {4}	5.38	0.00	322	0	0.004	N.D. #
21) L4 Aroclor-1242 {5}	5.57f	0.00	334	0	0.010	N.D. #
Sum Aroclor-1242			657	4594	0.015	0.219
Average Aroclor-1242					0.007	0.073
22) L5 Aroclor-1248	5.98	0.00	433	0	0.007	N.D. #
[redacted]) L5 Aroclor-1248 {2}	6.37	0.00	526	0	0.009	N.D. #
[redacted]) L5 Aroclor-1248 {3}	0.00	6.89f	0	437	N.D.	0.004 #
25) L5 Aroclor-1248 {4}	6.88	7.44	359	712	0.010	0.005 #
Sum Aroclor-1248			1318	1148	0.027	0.009
Average Aroclor-1248					0.009	0.005
27) L6 Aroclor-1254	7.36	7.44	427	712	0.006	0.011 #
[redacted]) L6 Aroclor-1254 {2}	8.13	7.84	738	1697	0.008	0.013 #
[redacted]) L6 Aroclor-1254 {3}	8.39	0.00	836	0	0.017	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604016.D\ECD1A.CH Vial: 16
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604016.D\ECD2B.CH
Acq On : 4 Jun 2004 2:53 pm Operator:
Sample : 06-002-05 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 15:14 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
3[illegible]) L6 Aroclor-1254 {4}	8.57	8.71	992	1461	0.014	0.008 #
3[illegible]) L6 Aroclor-1254 {5}	8.79	9.00	1452	1280	0.028	0.008 #
Sum Aroclor-1254			4444	5149	0.073	0.040
Average Aroclor-1254					0.015	0.010
3[illegible]) L7 Aroclor-1260 {5}	0.00	11.02	0	7603	N.D.	0.003 #
Sum Aroclor-1260			0	7603	N.D.	0.003
Average Aroclor-1260					0.000	0.003

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

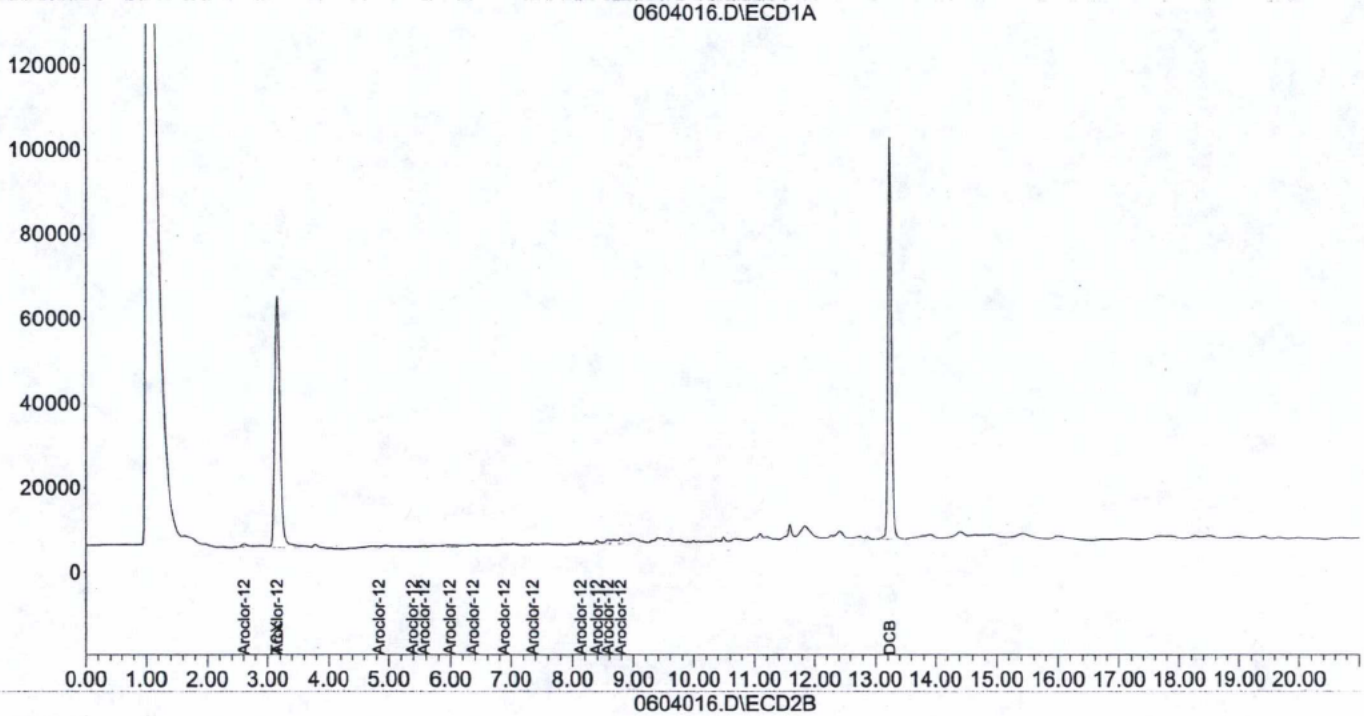
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040604\0604016.D\ECD1A.CH Vial: 16
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040604\0604016.D\ECD2B.CH
Acq On : 4 Jun 2004 2:53 pm Operator:
Sample : 06-002-05 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 4 15:14 2004 Quant Results File: PC040507.RES

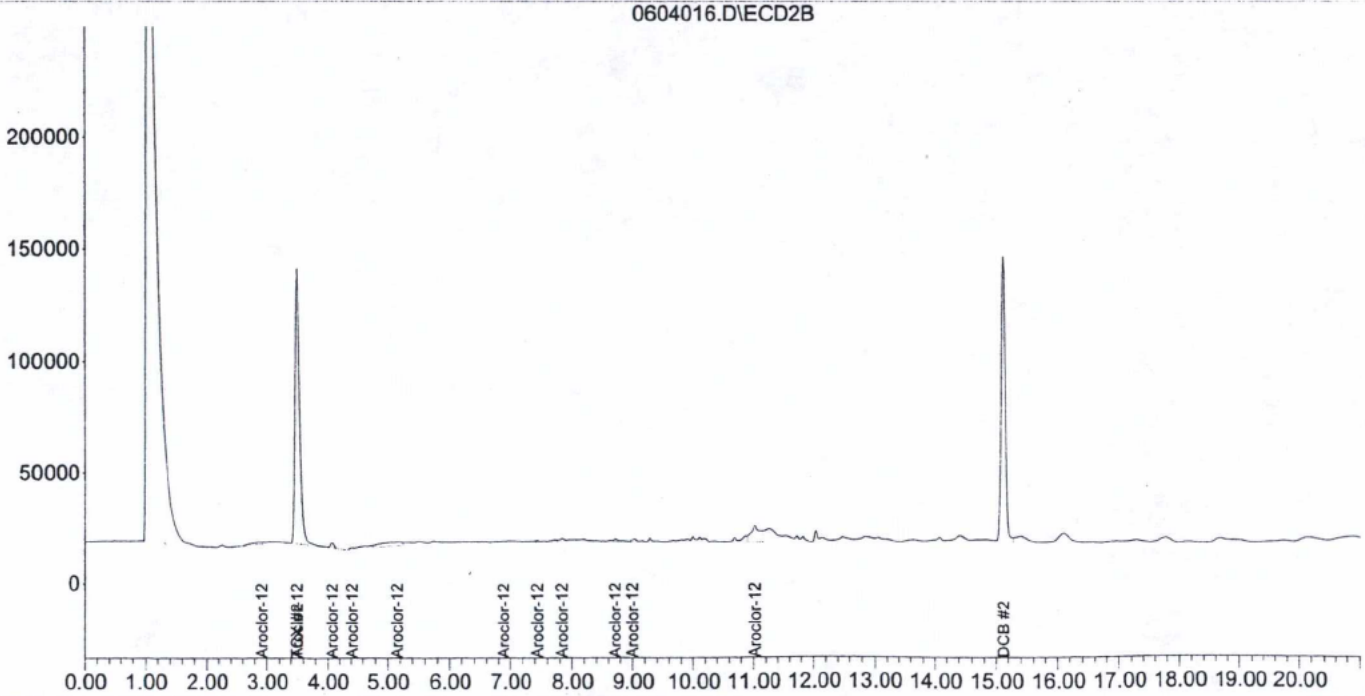
Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0604016.D\ECD1A



0604016.D\ECD2B



Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040607\0607027.D\ECD1A.CH Vial: 27
Signal #2 : X:\PEST\GEORGE\DATA\G040607\0607027.D\ECD2B.CH
Acq On : 7 Jun 2004 20:23 Operator:
Sample : 06-002-06 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 8 10:34 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.18	3.53	22840	39969	0.030	0.022 #
Spiked Amount 0.100			Recovery	=	30.00%	22.00%
1) S DCB	13.26	15.15	55821	70861	0.051	0.045
Spiked Amount 0.100			Recovery	=	51.00%	45.00%
Target Compounds						
) L1 Aroclor-1016	4.68f	0.00	2227	0	0.024	N.D. #
) L1 Aroclor-1016 {4}	0.00	6.25f	0	17130	N.D.	0.242 #
6) L1 Aroclor-1016 {5}	0.00	6.49	0	23483	N.D.	0.374 #
Sum Aroclor-1016			2227	40613	0.024	0.616
Average Aroclor-1016					0.024	0.308
7) L2 Aroclor-1221	0.00	2.97	0	956	N.D.	0.103 #
) L2 Aroclor-1221 {3}	0.00	4.12f	0	1302	N.D.	0.042 #
) L2 Aroclor-1221 {4}	0.00	4.46f	0	6796	N.D.	0.124 #
Sum Aroclor-1221			0	9054	N.D.	0.269
Average Aroclor-1221					0.000	0.090
) L3 Aroclor-1232	0.00	2.97	0	956	N.D.	0.172 #
13) L3 Aroclor-1232 {2}	3.18	3.53	22840	39969	0.161	0.132
14) L3 Aroclor-1232 {3}	0.00	4.12	0	1302	N.D.	0.053 #
) L3 Aroclor-1232 {4}	4.07f	4.46f	3040	6796	0.120	0.136
) L3 Aroclor-1232 {5}	4.68f	0.00	2227	0	0.111	N.D. #
Sum Aroclor-1232			28108	49023	0.393	0.494
Average Aroclor-1232					0.131	0.123
17) L4 Aroclor-1242	4.07f	4.12	3040	1302	0.173	0.101 #
18) L4 Aroclor-1242 {2}	4.68f	4.46f	2227	6796	0.060	0.182 #
) L4 Aroclor-1242 {3}	5.06f	0.00	1152	0	0.068	N.D. #
Sum Aroclor-1242			6420	8098	0.301	0.283
Average Aroclor-1242					0.100	0.142
) L5 Aroclor-1248 {2}	0.00	6.38	0	18024	N.D.	0.210 #
) L5 Aroclor-1248 {4}	6.84f	7.41f	1617	34086	0.047	0.251 #
26) L5 Aroclor-1248 {5}	0.00	7.56	0	36739	N.D.	0.316 #
Sum Aroclor-1248			1617	88849	0.047	0.777
Average Aroclor-1248					0.047	0.259
27) L6 Aroclor-1254	7.49f	7.56f	20699	7226	0.308m	0.108m#
) L6 Aroclor-1254 {2}	8.24f	7.95f	35953	21600	0.368m	0.160m#
) L6 Aroclor-1254 {3}	8.50f	8.61f	31593	17220	0.648m	0.173m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : X:\PEST\GEORGE\DATA\G040607\0607027.D\ECD1A.CH Vial: 27
Signal #2 : X:\PEST\GEORGE\DATA\G040607\0607027.D\ECD2B.CH
Acq On : 7 Jun 2004 20:23 Operator:
Sample : 06-002-06 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 8 10:34 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Initial Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
31)	L6 Aroclor-1254 {4}	8.68f	8.79f	28015	33882	0.388m	0.193m#
32)	L6 Aroclor-1254 {5}	8.90f	9.09f	48148	58431	0.922m	0.384m#
Sum	Aroclor-1254			164408	138359	2.634	1.019
Average	Aroclor-1254					0.527	0.204
						Avg=0.555	Avg=0.147
32)	L7 Aroclor-1260	8.50f	8.79f	31193	31288	0.385m	0.339m
33)	L7 Aroclor-1260 {2}	8.90f	9.09f	48132	56570	0.479m	0.370m
34)	L7 Aroclor-1260 {3}	10.05f	9.37f	46791	69570	0.584m	0.346m#
35)	L7 Aroclor-1260 {4}	10.55f	10.06f	110157	121014	0.639m	0.776m
36)	L7 Aroclor-1260 {5}	11.13	11.06f	84873	157114	0.813m	0.488m#
Sum	Aroclor-1260			321146	435556	2.901	2.319
Average	Aroclor-1260					0.580	0.464
						Avg=0.679	Avg=0.303

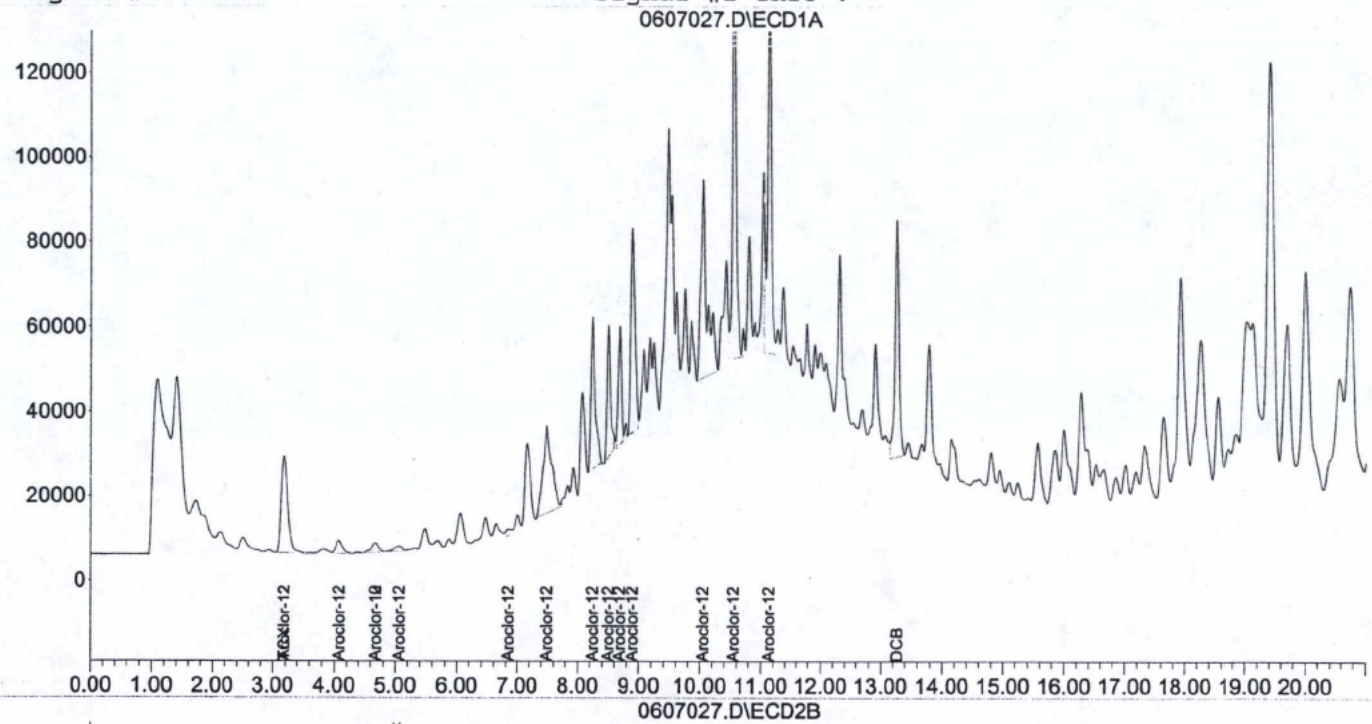
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

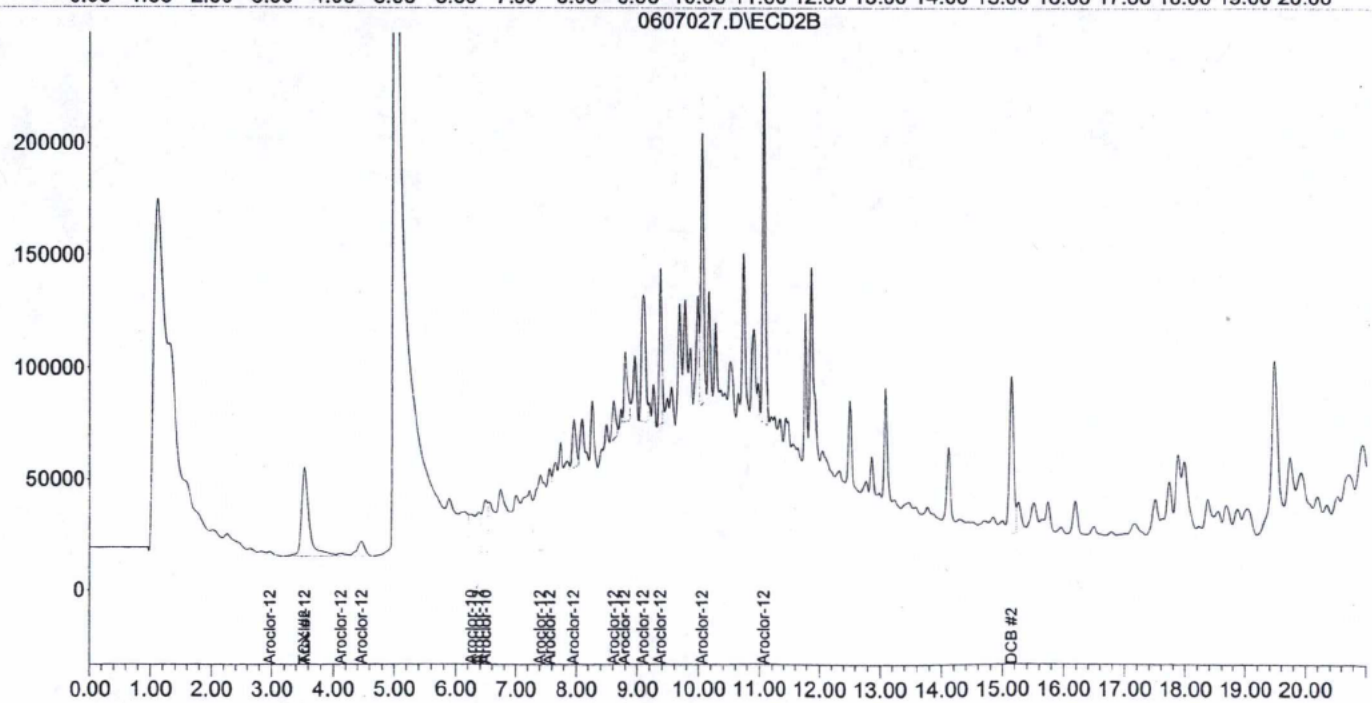
Signal #1 : X:\PEST\GEORGE\DATA\G040607\0607027.D\ECD1A.CH Vial: 27
Signal #2 : X:\PEST\GEORGE\DATA\G040607\0607027.D\ECD2B.CH
Acq On : 7 Jun 2004 20:23 Operator:
Sample : 06-002-06 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Jun 8 10:34 2004 Quant Results File: PC040507.RES

Quant Method : E:\HPCHEM\G...\PC040507.M (Chemstation Integrator)
Title : PCB
Last Update : Mon May 10 08:46:39 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040507.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





transformer oil

OnSite
Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 28, 2004

Ross Cayetano
Seattle City Light
3613 4th Avenue S.
Seattle, WA 98134

Re: Analytical Data for Project West Boeing
Laboratory Reference No. 0404-142

Dear Ross:

Enclosed are the analytical results and associated quality control data for samples submitted on April 27, 2004.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Blair Goodrow
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 28, 2004
Samples Submitted: April 27, 2004
Laboratory Reference: 0404-142
Project: West Boeing

Case Narrative

Samples were collected on April 27, 2004 and received by the laboratory on April 27, 2004. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 28, 2004
Samples Submitted: April 27, 2004
Laboratory Reference: 0404-142
Project: West Boeing

PCBs by EPA 8082

Date Extracted: 4-27-04
Date Analyzed: 4-27-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID	Client ID	Results	PCB Type	Surrogate % Recovery	PQL	Comments/ Flags
04-142-01	P620 (042701-1)	ND	---	81	1.0	
04-142-02	P621 (042701-2)	ND	---	82	0.99	
04-142-03	P622 (042701-3)	ND	---	77	0.99	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 28, 2004
Samples Submitted: April 27, 2004
Laboratory Reference: 0404-142
Project: West Boeing

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted:	4-27-04
Date Analyzed:	4-27-04
Matrix:	Oil
Units:	mg/kg (ppm)

Lab ID: MB0427O1

	Result	PQL
Aroclor 1016:	**ND**	1.0
Aroclor 1221:	**ND**	1.0
Aroclor 1232:	**ND**	1.0
Aroclor 1242:	**ND**	1.0
Aroclor 1248:	**ND**	1.0
Aroclor 1254:	**ND**	1.0
Aroclor 1260:	**ND**	1.0

Surrogate	**Percent Recovery**	**Control Limits**
Decachlorobiphenyl	105	60-134

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 28, 2004
Samples Submitted: April 27, 2004
Laboratory Reference: 0404-142
Project: West Boeing

PCBs by EPA 8082
SB/SBD QUALITY CONTROL

Date Extracted: 4-27-04
Date Analyzed: 4-27-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID: SB0427O1

Spike Level: 10.0

	SB	Percent Recovery	SBD	Percent Recovery	RPD
Aroclor 1260:	10.7	107	11.0	110	2
PQL	1.0		1.0		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	108	110	60-134

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)
(Check One)
☒ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager:

Laboratory No. 04-142

Company: SEATTLE CITY LIGHT
Project No.: SCL 756
Project Name: WEST BOEING
Project Manager: ROSS A. CAYETANO

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
1	PG20 (042704-1)	4/27/04		Oil	1								X												
2	PG21 (042704-2)	↓		↓	1								X												
3	PG22 (042704-3)	↓		↓	1								X												

RELINQUISHED BY	DATE	RECEIVED BY	DATE
ROSS A. CAYETANO	4/27/04	[signature]	4/27/04
FIRM: SEATTLE CITY LIGHT	TIME: 11:55 AM	FIRM: OnSite Env.	TIME: 11:55AM
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME

COMMENTS:

REVIEWED BY | DATE REVIEWED

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427006.D\ECD1A.CH Vial: 6
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427006.D\ECD2B.CH
Acq On : 27 Apr 2004 12:54 pm Operator:
Sample : 04-142-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 13:16 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	0.00	3.51f	0	12065	N.D.	0.005 #
Spiked Amount 0.100			Recovery	=	0.00%	5.00%
7) S DCB	13.31	15.22	81143	105539	0.081	0.081
Spiked Amount 0.100			Recovery	=	81.00%	81.00%
Target Compounds						
4) L1 Aroclor-1016 {3}	0.00	6.11	0	2529	N.D.	0.005 #
5) L1 Aroclor-1016 {4}	0.00	6.36f	0	2695	N.D.	0.021 #
6) L1 Aroclor-1016 {5}	0.00	6.50	0	2733	N.D.	0.019 #
Sum Aroclor-1016			0	7957	N.D.	0.045
verage Aroclor-1016					0.000	0.015
7) L2 Aroclor-1221	0.00	2.99	0	502	N.D.	0.052 #
9) L2 Aroclor-1221 {3}	4.07	0.00	404	0	0.014	N.D. #
0) L2 Aroclor-1221 {4}	0.00	4.51f	0	3820	N.D.	0.073 #
Sum Aroclor-1221			404	4322	0.014	0.125
Average Aroclor-1221					0.014	0.063
2) L3 Aroclor-1232	0.00	2.99	0	502	N.D.	0.089 #
13) L3 Aroclor-1232 {2}	0.00	3.51f	0	12065	N.D.	0.045 #
15) L3 Aroclor-1232 {4}	4.07	4.51f	404	3820	0.017	0.083 #
Sum Aroclor-1232			404	16387	0.017	0.217
verage Aroclor-1232					0.017	0.072
17) L4 Aroclor-1242	4.07	0.00	404	0	0.024	N.D. #
8) L4 Aroclor-1242 {2}	4.73f	4.51f	321	3820	0.009	0.110 #
Sum Aroclor-1242			724	3820	0.033	0.110
Average Aroclor-1242					0.017	0.110
3) L5 Aroclor-1248 {2}	0.00	6.42	0	2639	N.D.	0.035 #
4) L5 Aroclor-1248 {3}	6.57	0.00	859	0	0.018	N.D. #
26) L5 Aroclor-1248 {5}	7.16f	7.64f	1510	2958	0.020	0.028 #
Sum Aroclor-1248			2369	5597	0.038	0.063
verage Aroclor-1248					0.019	0.031
27) L6 Aroclor-1254	7.37f	0.00	944	0	0.013	N.D. #
8) L6 Aroclor-1254 {2}	8.24f	7.95f	2341	4099	0.022	0.032 #
9) L6 Aroclor-1254 {3}	8.49f	8.60	2328	2473	0.044	0.026 #
30) L6 Aroclor-1254 {4}	8.67f	8.73f	873	2316	0.012	0.014
31) L6 Aroclor-1254 {5}	8.88f	0.00	2924	0	0.052	N.D. #
Sum Aroclor-1254			9410	8888	0.143	0.073
verage Aroclor-1254					0.029	0.024

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427006.D\ECD1A.CH Vial: 6
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427006.D\ECD2B.CH
Acq On : 27 Apr 2004 12:54 pm Operator:
Sample : 04-142-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 13:16 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
32) L7 Aroclor-1260	8.49f	8.84f	2328	3200	0.013	0.013
33) L7 Aroclor-1260 {2}	8.88f	9.13f	2924	4786	0.015	0.004 #
34) L7 Aroclor-1260 {3}	0.00	9.37f	0	5736	N.D.	0.005 #
35) L7 Aroclor-1260 {4}	10.56	10.18	3533	3907	0.015	0.005 #
36) L7 Aroclor-1260 {5}	0.00	11.08	0	7983	N.D.	0.008 #
Sum Aroclor-1260			8785	25612	0.043	0.035
Average Aroclor-1260					0.014	0.007

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

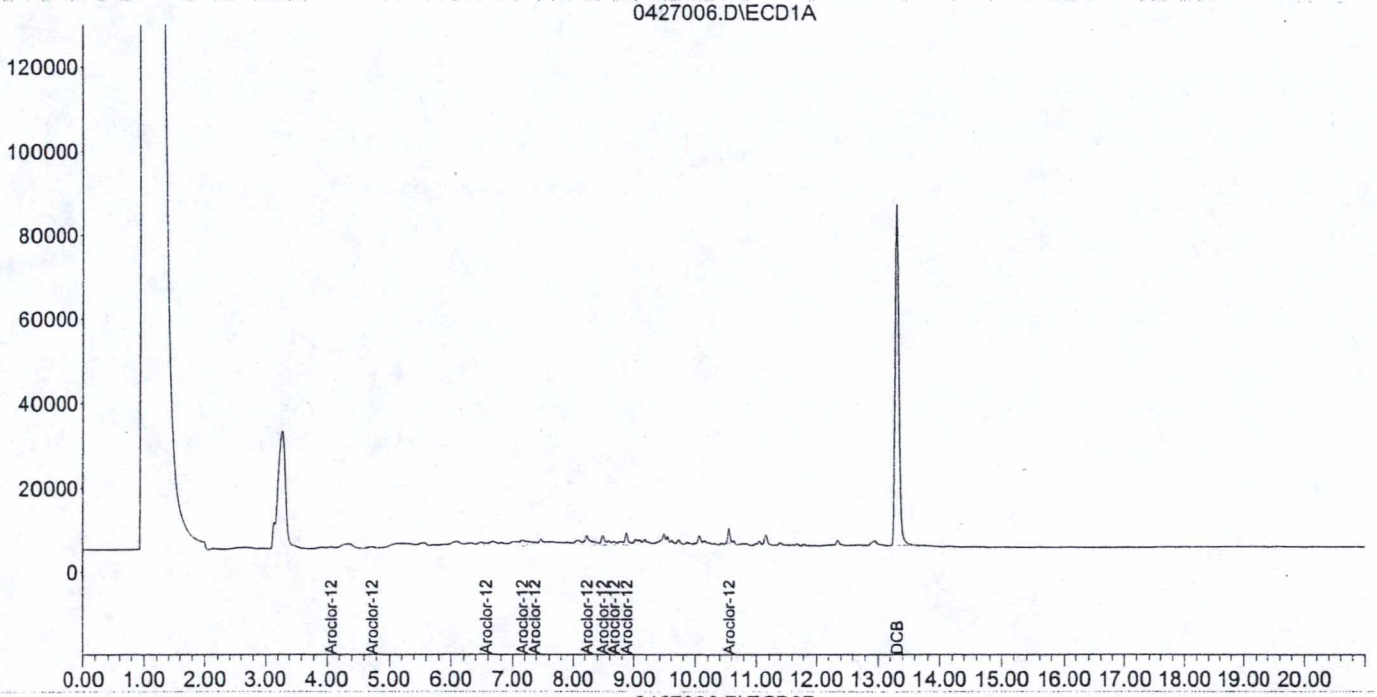
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427006.D\ECD1A.CH Vial: 6
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427006.D\ECD2B.CH
Acq On : 27 Apr 2004 12:54 pm Operator:
Sample : 04-142-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 13:16 2004 Quant Results File: PC040326.RES

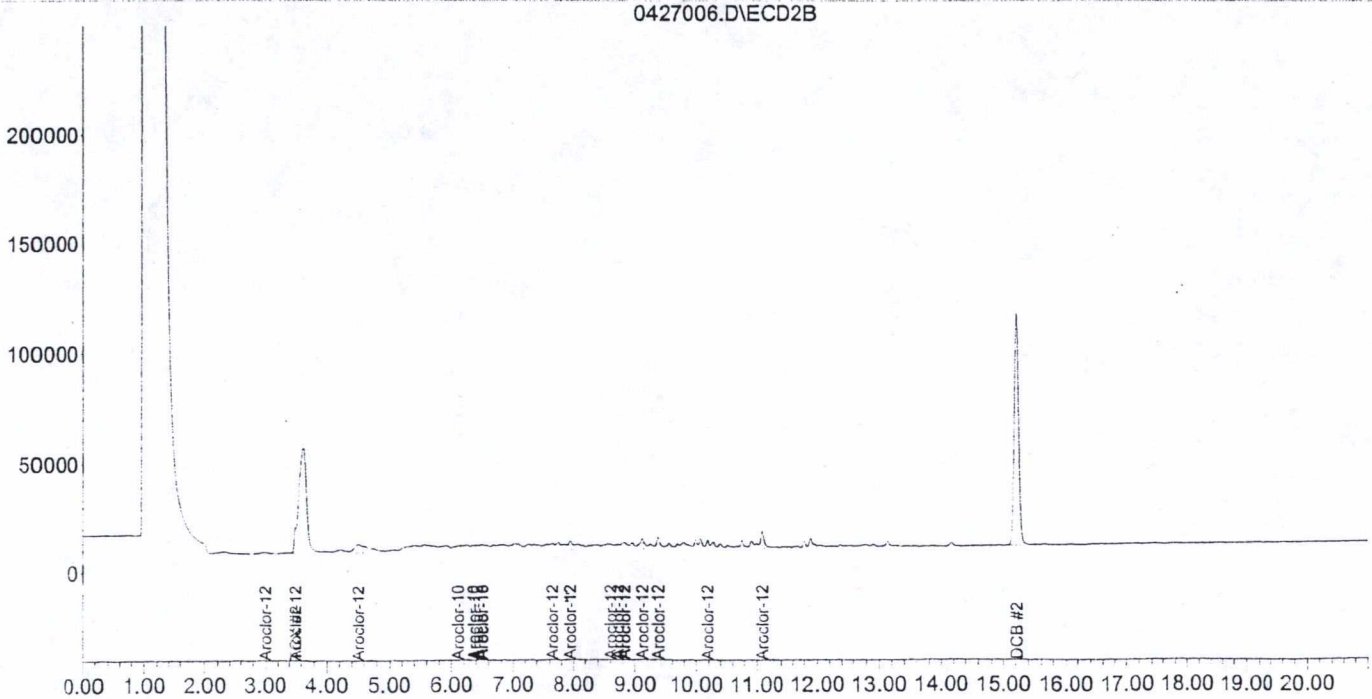
Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0427006.D\ECD1A



0427006.D\ECD2B



Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427007.D\ECD1A.CH Vial: 7
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427007.D\ECD2B.CH
Acq On : 27 Apr 2004 1:18 pm Operator:
Sample : 04-142-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 13:40 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm	
System Monitoring Compounds							
1) S TCX	0.00	3.51f	0	14212	N.D.	0.006	#
Spiked Amount 0.100			Recovery	=	0.00%	6.00%	
27) S DCB	13.31	15.22	82506	107730	0.082	0.082	
Spiked Amount 0.100			Recovery	=	82.00%	82.00%	
Target Compounds							
5) L1 Aroclor-1016 {4}	6.04f	6.35f	1168	2598	0.008	0.019	#
Sum Aroclor-1016			1168	2598	0.008	0.019	
Average Aroclor-1016					0.008	0.019	
7) L2 Aroclor-1221	2.71	0.00	145	0	0.021	N.D.	#
9) L2 Aroclor-1221 {3}	4.06	0.00	301	0	0.011	N.D.	#
10) L2 Aroclor-1221 {4}	0.00	4.51f	0	3624	N.D.	0.069	#
Sum Aroclor-1221			446	3624	0.032	0.069	
Average Aroclor-1221					0.016	0.069	
12) L3 Aroclor-1232	2.71	0.00	145	0	0.033	N.D.	#
13) L3 Aroclor-1232 {2}	3.14f	3.51f	7408	14212	0.055	0.052	
15) L3 Aroclor-1232 {4}	4.06	4.51f	301	3624	0.013	0.079	#
16) L3 Aroclor-1232 {5}	4.70	0.00	341	0	0.017	N.D.	#
Sum Aroclor-1232			8196	17836	0.119	0.132	
Average Aroclor-1232					0.030	0.066	
17) L4 Aroclor-1242	4.06	0.00	301	0	0.018	N.D.	#
18) L4 Aroclor-1242 {2}	4.70	4.51f	341	3624	0.009	0.105	#
20) L4 Aroclor-1242 {4}	0.00	5.61f	0	3034	N.D.	0.083	#
21) L4 Aroclor-1242 {5}	0.00	5.86	0	2407	N.D.	0.018	#
Sum Aroclor-1242			642	9064	0.027	0.207	
Average Aroclor-1242					0.014	0.069	
22) L5 Aroclor-1248	6.04	5.86	1168	2407	0.019	0.026	#
23) L5 Aroclor-1248 {2}	0.00	6.43	0	2751	N.D.	0.036	#
24) L5 Aroclor-1248 {3}	6.57	0.00	994	0	0.021	N.D.	#
25) L5 Aroclor-1248 {4}	0.00	7.52	0	2174	N.D.	0.018	#
26) L5 Aroclor-1248 {5}	7.15f	7.63f	1288	2551	0.017	0.024	#
Sum Aroclor-1248			3450	9883	0.057	0.104	
Average Aroclor-1248					0.019	0.026	
27) L6 Aroclor-1254	0.00	7.52	0	2174	N.D.	0.035	#
28) L6 Aroclor-1254 {2}	8.23f	7.94f	1804	3466	0.017	0.027	#
29) L6 Aroclor-1254 {3}	8.48f	8.60	1768	2172	0.033	0.023	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427007.D\ECD1A.CH Vial: 7
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427007.D\ECD2B.CH
Acq On : 27 Apr 2004 1:18 pm Operator:
Sample : 04-142-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 13:40 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm	
30)	L6 Aroclor-1254 {4}	8.66f	0.00	665	0	0.009	N.D.	#
31)	L6 Aroclor-1254 {5}	8.88f	0.00	2229	0	0.039	N.D.	#
	Sum Aroclor-1254			6467	7812	0.099	0.085	
	Average Aroclor-1254					0.025	0.028	
32)	L7 Aroclor-1260	8.48f	8.84f	1768	2424	0.005	0.003	#
33)	L7 Aroclor-1260 {2}	8.88f	9.13f	2229	3368	0.008	N.D.	#
34)	L7 Aroclor-1260 {3}	10.06	9.36f	1081	4333	0.009	N.D.	#
	Sum Aroclor-1260			5078	2424	0.022	N.D.	
	Average Aroclor-1260					0.007	-0.008	

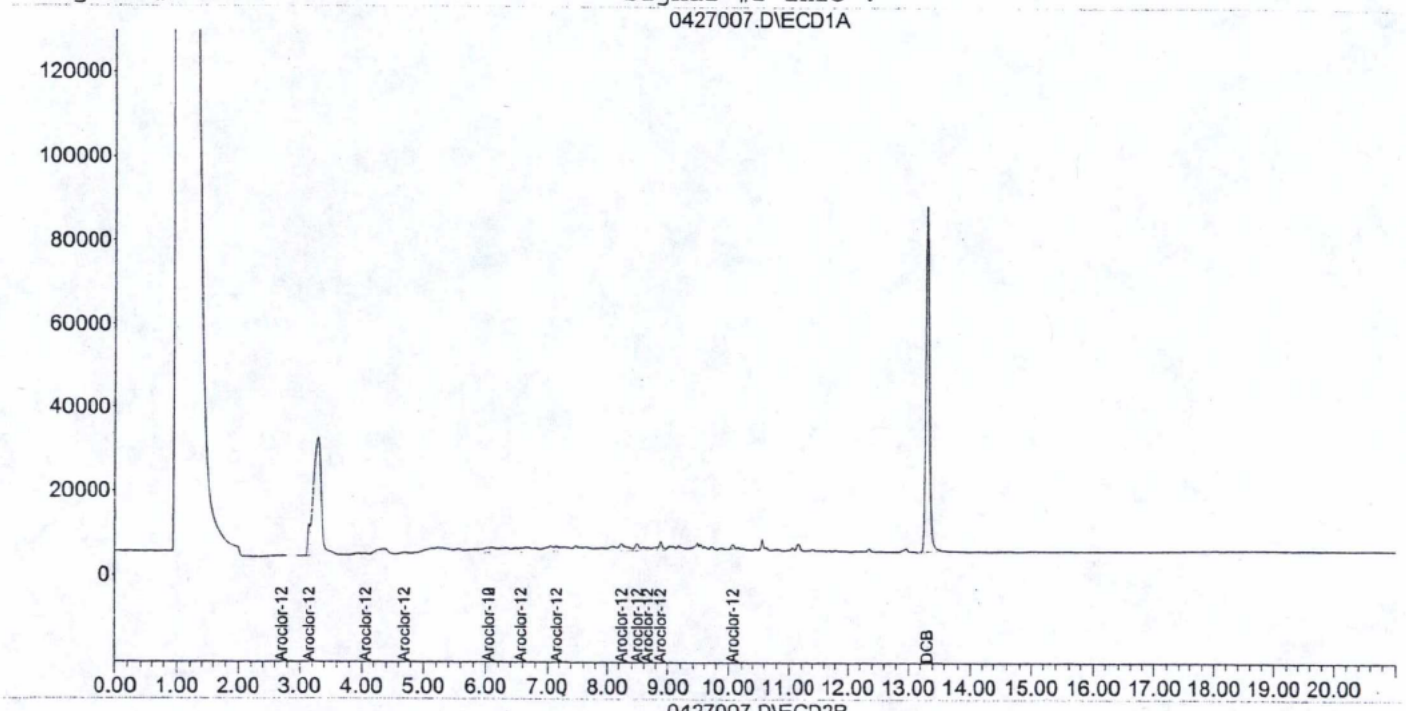
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

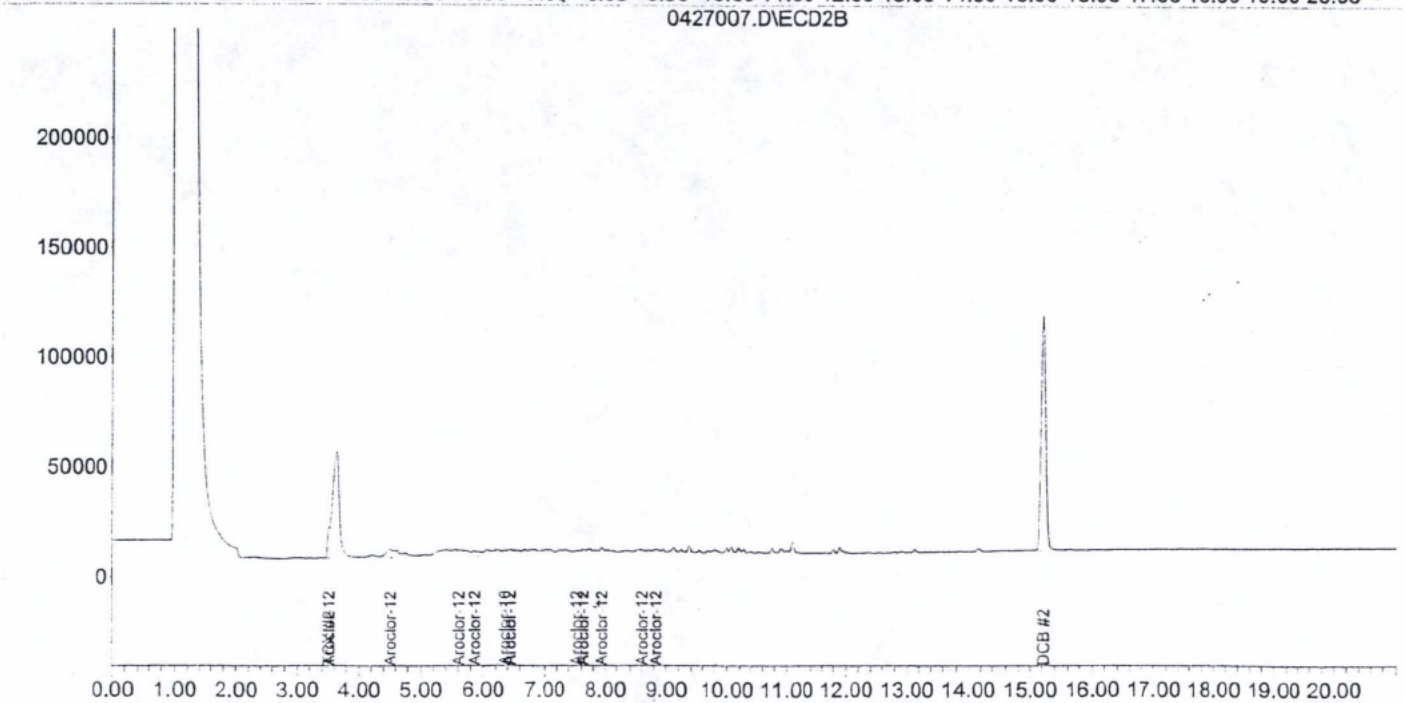
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427007.D\ECD1A.CH Vial: 7
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427007.D\ECD2B.CH
Acq On : 27 Apr 2004 1:18 pm Operator:
Sample : 04-142-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 13:40 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantification Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427008.D\ECD1A.CH Vial: 8
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427008.D\ECD2B.CH
Acq On : 27 Apr 2004 1:42 pm Operator:
Sample : 04-142-03 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 14:03 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
37) S DCB	13.31	15.22	77655	99334	0.077	0.075
Spiked Amount 0.100			Recovery	=	77.00%	75.00%
Target Compounds						
4) L1 Aroclor-1016 {3}	0.00	6.15f	0	3183	N.D.	0.015 #
5) L1 Aroclor-1016 {4}	0.00	6.36f	0	3314	N.D.	0.032 #
6) L1 Aroclor-1016 {5}	0.00	6.50	0	3486	N.D.	0.033 #
Sum Aroclor-1016			0	9983	N.D.	0.080
Average Aroclor-1016					0.000	0.027
7) L2 Aroclor-1221	2.72	2.99	148	526	0.021	0.055 #
9) L2 Aroclor-1221 {3}	4.07	0.00	485	0	0.017	N.D. #
10) L2 Aroclor-1221 {4}	0.00	4.51f	0	3809	N.D.	0.073 #
11) L2 Aroclor-1221 {5}	0.00	5.22f	0	2437	N.D.	0.129 #
Sum Aroclor-1221			632	6773	0.039	0.257
Average Aroclor-1221					0.019	0.086
12) L3 Aroclor-1232	2.72	2.99	148	526	0.034	0.093 #
15) L3 Aroclor-1232 {4}	4.07	4.51f	485	3809	0.020	0.083 #
16) L3 Aroclor-1232 {5}	4.71f	5.22f	243	2437	0.012	0.056 #
Sum Aroclor-1232			875	6773	0.067	0.232
Average Aroclor-1232					0.022	0.077
17) L4 Aroclor-1242	4.07	0.00	485	0	0.029	N.D. #
18) L4 Aroclor-1242 {2}	4.71f	4.51f	243	3809	0.007	0.110 #
19) L4 Aroclor-1242 {3}	0.00	5.22f	0	2437	N.D.	0.035 #
Sum Aroclor-1242			727	6246	0.036	0.145
Average Aroclor-1242					0.018	0.072
22) L5 Aroclor-1248	0.00	5.81f	0	3178	N.D.	0.034 #
23) L5 Aroclor-1248 {2}	0.00	6.42	0	3248	N.D.	0.043 #
24) L5 Aroclor-1248 {3}	6.57	0.00	986	0	0.021	N.D. #
26) L5 Aroclor-1248 {5}	7.16f	7.63f	1275	3583	0.017	0.034 #
Sum Aroclor-1248			2261	10008	0.037	0.111
Average Aroclor-1248					0.019	0.037
27) L6 Aroclor-1254	7.37f	0.00	1122	0	0.016	N.D. #
28) L6 Aroclor-1254 {2}	8.24f	7.86f	1994	3421	0.019	0.027 #
29) L6 Aroclor-1254 {3}	8.49f	8.61	1426	3269	0.027	0.035 #
30) L6 Aroclor-1254 {4}	8.67f	8.74f	853	3479	0.012	0.021 #
31) L6 Aroclor-1254 {5}	8.88f	0.00	1862	0	0.033	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427008.D\ECD1A.CH Vial: 8
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427008.D\ECD2B.CH
Acq On : 27 Apr 2004 1:42 pm Operator:
Sample : 04-142-03 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 14:03 2004 Quant Results File: PC040326.RES

Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
Sum Aroclor-1254			7257	10169	0.106	0.083
verage Aroclor-1254					0.021	0.028
32) L7 Aroclor-1260	0.00	8.84f	0	3680	N.D.	0.019 #
3) L7 Aroclor-1260 {2}	8.88f	9.12	1862	5354	0.004	0.009 #
5) L7 Aroclor-1260 {4}	0.00	10.18	0	3580	N.D.	0.003 #
36) L7 Aroclor-1260 {5}	0.00	11.08	0	5910	N.D.	0.001 #
Sum Aroclor-1260			1862	18524	0.004	0.031
verage Aroclor-1260					0.004	0.008

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

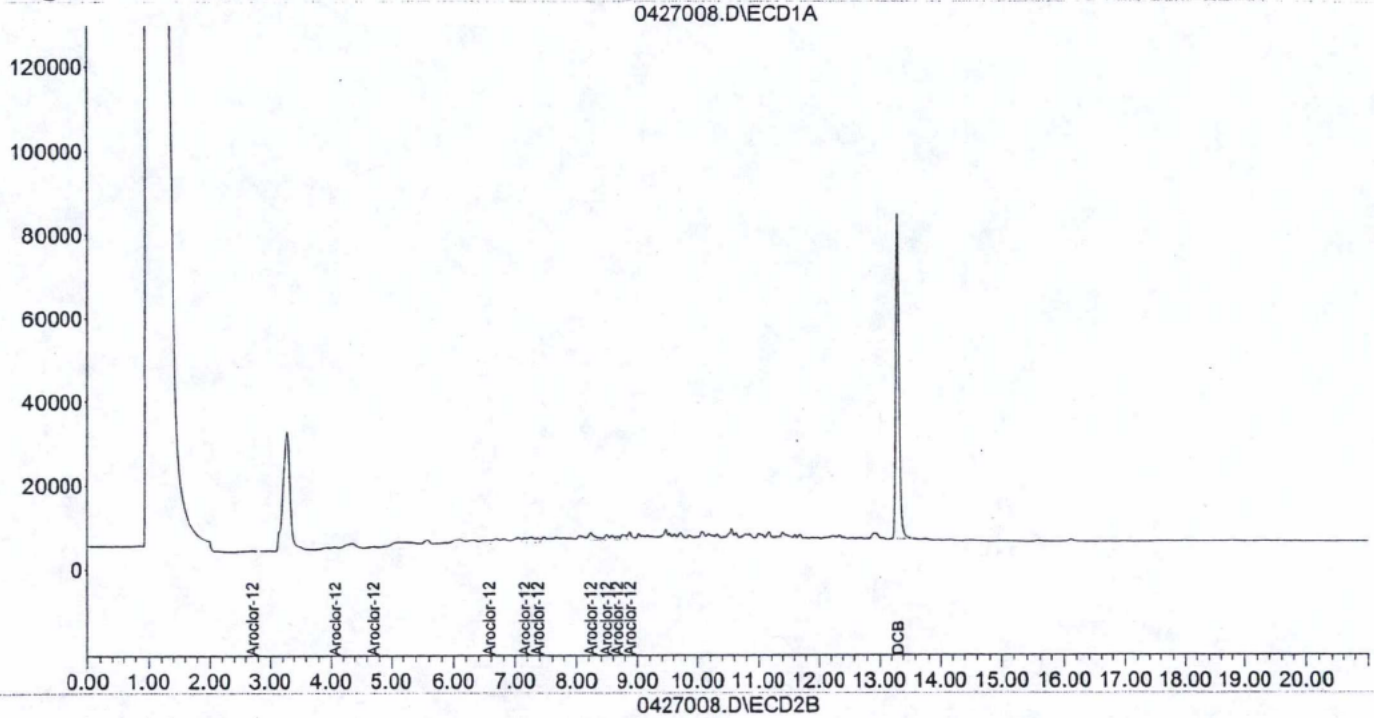
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040427\0427008.D\ECD1A.CH Vial: 8
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040427\0427008.D\ECD2B.CH
Acq On : 27 Apr 2004 1:42 pm Operator:
Sample : 04-142-03 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 27 14:03 2004 Quant Results File: PC040326.RES

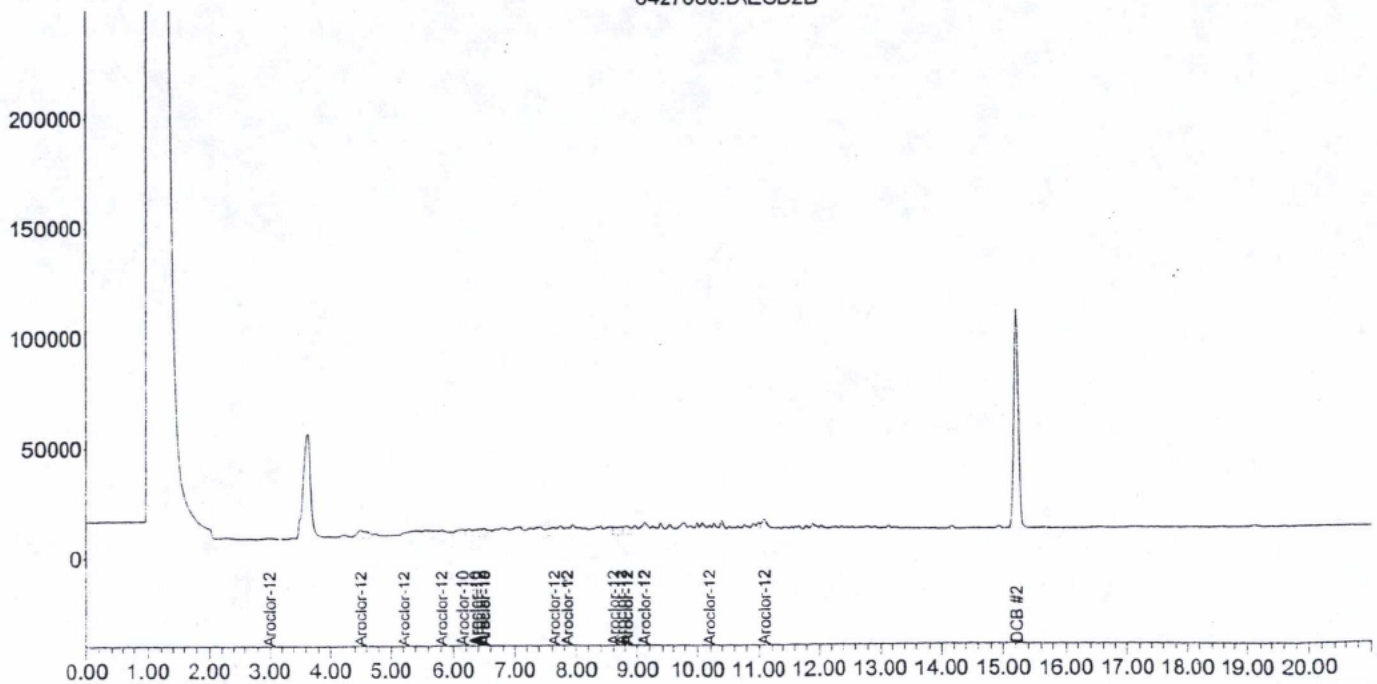
Quant Method : E:\HPCHEM\G...\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0427008.D\ECD1A



0427008.D\ECD2B



wipe samples

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

April 5, 2004

Ross Cayetano
Seattle City Light
3613 4th Avenue S.
Seattle, WA 98134

Re: Analytical Data for Project SCL 756
Laboratory Reference No. 0404-007

Dear Ross:

Enclosed are the analytical results and associated quality control data for samples submitted on April 1, 2004.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Blair Goodrow
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: April 5, 2004
Samples Submitted: April 5, 2004
Laboratory Reference: 0404-007
Project: SCL 756

Case Narrative

Samples were received by the laboratory on April 1, 2004. They were maintained at the laboratory at a temperature of 4°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a footnote reference and will be included on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PCBs EPA 8082 Analysis

The percent difference values for the following analytes were greater than the quality control limit of -15% (high bias) on both columns in the following continuing calibration verification standard (CCV):

PCBCCV-0401-5: DCB

Since the average was less than 15% D for all analytes on both columns and the instrument exhibited an increased response, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2004
Samples Submitted: April 1, 2004
Laboratory Reference: 0404-007
Project: SCL 756

PCBs by EPA 8082
Sample Summary

Date Extracted: 4-1-04
Date Analyzed: 4-1-04

Matrix: Wipe
Units: ug/100(cm)2

Lab ID	Client ID	Results	PCB Type	Surrogate % Recovery	PQL	Comments/ Flags
04-007-01	P620 A-1	ND	-----	94	2.0	
04-007-02	P621 A-1	ND	-----	91	2.0	
04-007-03	P622 A-1	ND	-----	101	2.0	
04-007-04	N637 A-1	ND	-----	92	2.0	
04-007-05	P620 B-1	ND	-----	98	2.0	
04-007-06	P621 B-1	ND	-----	88	2.0	
04-007-07	P622 B-1	ND	-----	85	2.0	
04-007-08	N637 B-1	ND	-----	83	2.0	
04-007-10	P622 B-1 DUP	ND	-----	88	2.0	
04-007-11	FIELD BLANK	ND	-----	90	2.0	
04-007-12	AMBIENT BLANK	ND	-----	111	2.0	
04-007-13	BACKGROUND	ND	-----	103	2.0	
04-007-14	EQUIP BEFORE	ND	-----	90	2.0	
04-007-15	EQUIP AFTER	ND	-----	101	2.0	

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Date of Report: April 5, 2004
Samples Submitted: April 1, 2004
Laboratory Reference: 0404-007
Project: SCL 756

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-1-04
Date Analyzed: 4-1-04

Matrix: Wipe
Units: ug/100(cm)2

Lab ID: MB0401P1

	Result	PQL
Aroclor 1016:	**ND**	2.0
Aroclor 1221:	**ND**	2.0
Aroclor 1232:	**ND**	2.0
Aroclor 1242:	**ND**	2.0
Aroclor 1248:	**ND**	2.0
Aroclor 1254:	**ND**	2.0
Aroclor 1260:	**ND**	2.0

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	119	86-126

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2004
Samples Submitted: April 1, 2004
Laboratory Reference: 0404-007
Project: SCL 756

PCBs by EPA 8082
SB/SBD QUALITY CONTROL

Date Extracted: 4-1-04
Date Analyzed: 4-1-04

Matrix: Wipe
Units: ug/100(cm)2

Lab ID: SB0401P1

Spike Level: 20.0

	SB	Percent Recovery	SBD	Percent Recovery	RPD
Aroclor 1260:	21.7	108	21.5	108	1
PQL	2.0		2.0		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	116	117	86-126

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2004
Samples Submitted: April 1, 2004
Laboratory Reference: 0404-007
Project: SCL 756

PCBs by EPA 8082
Sample Summary

Date Extracted: 4-1-04
Date Analyzed: 4-2-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID	Client ID	Results	PCB Type	Surrogate % Recovery	PQL	Comments/ Flags
04-007-09	N637 OIL	ND	-----	76	0.99	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2004
Samples Submitted: April 1, 2004
Laboratory Reference: 0404-007
Project: SCL 756

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-1-04
Date Analyzed: 4-2-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID: MB0401O1

	Result	PQL
Aroclor 1016:	**ND**	1.0
Aroclor 1221:	**ND**	1.0
Aroclor 1232:	**ND**	1.0
Aroclor 1242:	**ND**	1.0
Aroclor 1248:	**ND**	1.0
Aroclor 1254:	**ND**	1.0
Aroclor 1260:	**ND**	1.0

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	113	60-134

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2004
Samples Submitted: April 1, 2004
Laboratory Reference: 0404-007
Project: SCL 756

PCBs by EPA 8082
MS/MSD QUALITY CONTROL

Date Extracted: 4-1-04
Date Analyzed: 4-2-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID: 04-002-09

Spike Level: 10.0

	MS	Percent Recovery	MSD	Percent Recovery	RPD
Aroclor 1260:	7.12	71	7.21	72	1
PQL	1.0		0.99		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	76	78	60-134

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD is outside control limits due to sample inhomogeneity.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with a silica gel/acid cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: SCL
Project Number:
Project Name: Boeing sub
Project Manager:
Sampled by: K Dinehart

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (7 working days)
☒ April 5th AM (other)

Laboratory Number: 04-007

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH					% Moisture
1	P620 A-1	4-1-04	12:04	Wipe	1								X												
2	P621 A-1	↓	11:32	↓	↓								↓												
3	P622 A-1		11:55																						
4	N637 A-1		11:26																						
5	P620 B-1		12:07																						
6	P621 B-1		11:52																						
7	P622 B-1		11:59																						
8	N637 B-1		11:29																						
9	N637 Oil		11:18	OIL									⊗												
10	P622 B-1 Dup		12:02	Wipe									⊗												

	Signature	Company	Date	Time
Relinquished by	Karen M. Dinehart	SCL	4-1-04	12:25
Received by	[signature]	SPEEDY #16	4/1/4	12:25
Relinquished by	↓	↓	↓	↓
Received by	↓	↓	↓	↓
Relinquished by	[signature]	SPEEDY #16	4/1/4	13:10
Received by	Kelley Will	OnSite Env.	4/1/04	13:10
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:
e-mail results to Karen - phone as soon as results are in. 206/386-4581
⊗ Added 4/2/04 per Ross

Chromatograms with final report ☒

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: SCL
Project Number:
Project Name: Boeing Sub
Project Manager:
Sampled by: K Dinehart

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☐ 3 Day
- ☐ Standard (7 working days)
- ☒ April 5th AM (other)

Laboratory Number: 04-007

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH					% Moisture
11	Field Blank	4-1-04	–	Wipe	1								X												
12	Ambient Blank	↓	12:09	↓	↓								↓												
13	Background		11:12																						
14	Equip Before		11:10																						
15	Equip After	↓	11:37	↓	↓																				

	Signature	Company	Date	Time
Relinquished by	Karen McDonald	SCL	4-1-04	12:25
Received by	[illegible]	SPEEDY #16	4/1/4	12:25
Relinquished by	↓	↓	↓	↓
Received by				
Relinquished by	[illegible]	SPEEDY #16	4/1/4	13:10
Received by	Kelley West	OnSite Env.		
Reviewed by/Date		Reviewed by/Date		

Comments/Special Instructions:

e-mail results to Karen - phone as soon as results are in. 206/386-4581

Chromatograms with final report ☒

RAW DATA

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401022.D\ECD1A.CH Vial: 22
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401022.D\ECD2B.CH
Acq On : 1 Apr 2004 9:09 pm
Sample : 04-007-01
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 21:30 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	54959	109789	0.079	0.077
Spiked Amount 0.100			Recovery	=	79.00%	77.00%
7) S DCB	13.30	15.22	87781	121978	0.088	0.094
Spiked Amount 0.100			Recovery	=	88.00%	94.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
9) L2 Aroclor-1221 {3}	0.00	4.12	0	1791	N.D.	0.062 #
Sum Aroclor-1221			0	1791	N.D.	0.062
Average Aroclor-1221					0.000	0.062
1[illegible]) L3 Aroclor-1232 {2}	3.20	3.54	54959	109789	0.411	0.405
1[illegible]) L3 Aroclor-1232 {3}	0.00	4.12	0	1791	N.D.	0.081 #
Sum Aroclor-1232			54959	111580	0.411	0.487
Average Aroclor-1232					0.411	0.243
1[illegible]) L4 Aroclor-1242	0.00	4.12	0	1791	N.D.	0.152 #
19) L4 Aroclor-1242 {3}	5.08	0.00	159	0	0.010	N.D. #
Sum Aroclor-1242			159	1791	0.010	0.152
Average Aroclor-1242					0.010	0.152
25) L5 Aroclor-1248 {4}	6.94	0.00	104	0	0.003	N.D. #
26) L5 Aroclor-1248 {5}	0.00	7.57[illegible]	0	581	N.D.	0.005 #
Sum Aroclor-1248			104	581	0.003	0.005
Average Aroclor-1248					0.003	0.005
2[illegible]) L6 Aroclor-1254	7.40	0.00	202	0	0.003	N.D. #
2[illegible]) L6 Aroclor-1254 {2}	8.18	7.88	490	600	0.005	0.005
29) L6 Aroclor-1254 {3}	8.43	0.00	509	0	0.010	N.D. #
30) L6 Aroclor-1254 {4}	8.62	8.76	82	450	0.005	0.003 #
3[illegible]) L6 Aroclor-1254 {5}	8.83	9.09	735	733	0.013	0.005 #
Sum Aroclor-1254			2318	1784	0.035	0.013
Average Aroclor-1254					0.007	0.004
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amou[illegible] r by > 25% (m)=manual int.

Quantitation Report

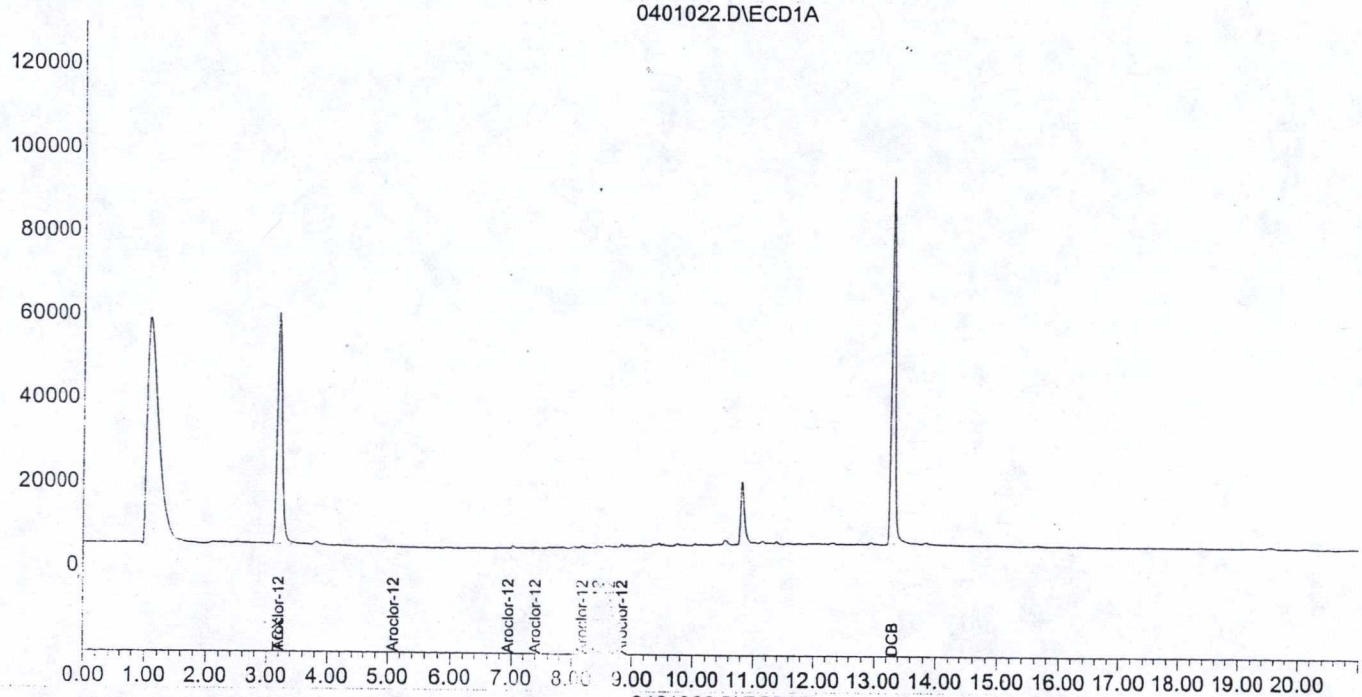
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401022.D\ECD1A.CH Vial: 22
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401022.D\ECD2B.CH
Acq On : 1 Apr 2004 9:09 pm Operator:
Sample : 04-007-01 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 21:30 2004 Quant Results File: PC040326.RES

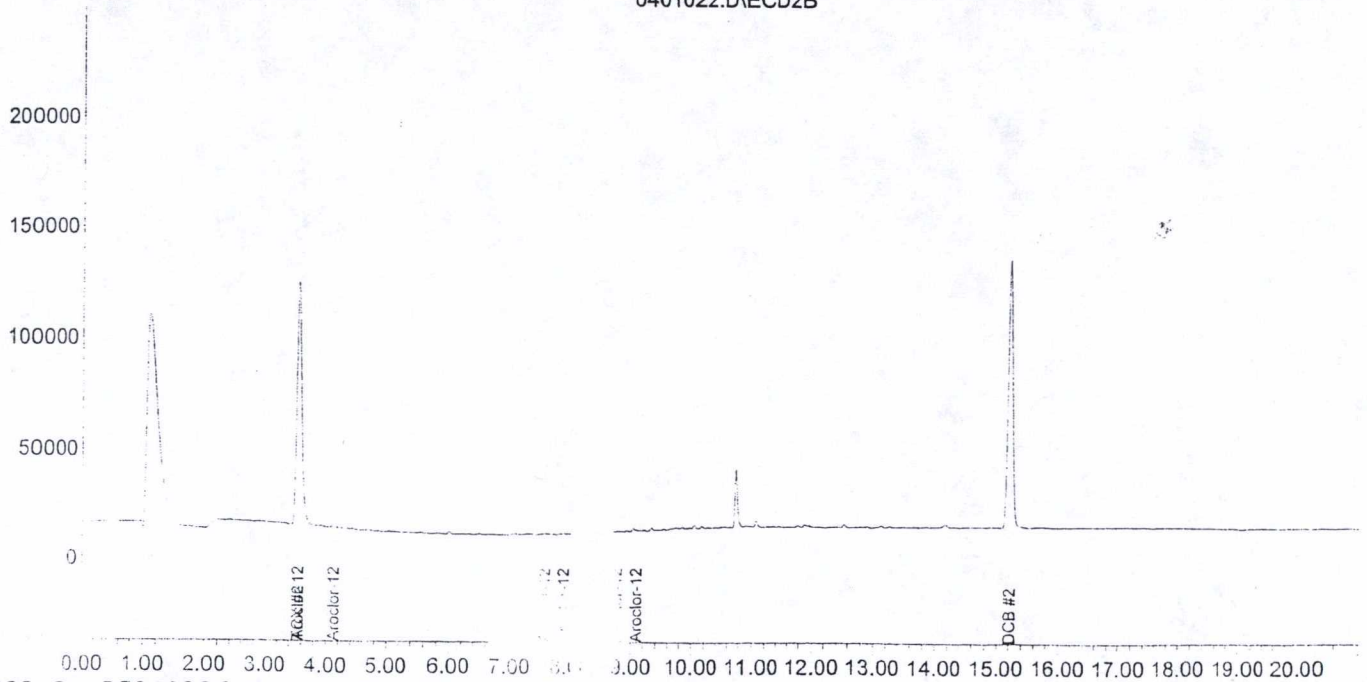
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401022.D\ECD1A



0401022.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401023.D\ECD1A.CH Vial: 23
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401023.D\ECD2B.CH
Acq On : 1 Apr 2004 9:33 pm Operator:
Sample : 04-007-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 21:54 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:[illegible] 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	[illegible]50	101044	0.076	0.070
Spiked Amount 0.100			Recovery	=	76.00%	70.00%
[illegible]) S DCB	13.30	15.22	87095	118541	0.087	0.091
Spiked Amount 0.100			Recovery	=	87.00%	91.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
[illegible]) L2 Aroclor-1221 {3}	0.00	4.12	0	1819	N.D.	0.063 #
[illegible]) L2 Aroclor-1221 {5}	5.44	0.00	219	0	0.032	N.D. #
Sum Aroclor-1221			[illegible]19	1819	0.032	0.063
Average Aroclor-1221					0.032	0.063
[illegible]) L3 Aroclor-1232 {2}	3.20	3.54	52750	101044	0.394	0.373
14) L3 Aroclor-1232 {3}	0.00	4.12	0	1819	N.D.	0.082 #
16) L3 Aroclor-1232 {5}	4.63f	0.00	[illegible]46	0	0.007	N.D. #
Sum Aroclor-1232			52[illegible]95	102863	0.402	0.456
Average Aroclor-1232					0.201	0.228
[illegible]) L4 Aroclor-1242	0.00	4.12	0	1819	N.D.	0.154 #
[illegible]) L4 Aroclor-1242 {2}	4.63f	0.00	[illegible]46	0	0.004	N.D. #
19) L4 Aroclor-1242 {3}	5.08	0.00	[illegible]30	0	0.014	N.D. #
20) L4 Aroclor-1242 {4}	5.44	5.66	[illegible]19	1031	0.003	0.028 #
[illegible]) L4 Aroclor-1242 {5}	0.00	5.83f	0	384	N.D.	0.003 #
Sum Aroclor-1242			[illegible]95	3234	0.021	0.186
Average Aroclor-1242					0.007	0.062
[illegible]) L5 Aroclor-1248	0.00	5.83f	[illegible]0	384	N.D.	0.004 #
[illegible]) L5 Aroclor-1248 {2}	6.38f	0.00	[illegible]73	0	0.005	N.D. #
24) L5 Aroclor-1248 {3}	6.60	6.98	94	592	0.002	0.006 #
25) L5 Aroclor-1248 {4}	6.94	7.50	[illegible]28	1545	0.010	0.012 #
[illegible]) L5 Aroclor-1248 {5}	7.09	7.[illegible]	[illegible]264	1750	0.003	0.016 #
Sum Aroclor-1248			[illegible]9	4270	0.020	0.039
Average Aroclor-1248					0.005	0.010
[illegible]) L6 Aroclor-1254	7.39f	7.50	[illegible]44	1545	0.009	0.025 #
28) L6 Aroclor-1254 {2}	8.18	7.94f	37	2095	0.014	0.016
29) L6 Aroclor-1254 {3}	8.43	8.62f	[illegible]36	3949	0.008	0.042 #
[illegible]) L6 Aroclor-1254 {4}	8.62	8.80f	[illegible]11	2761	0.014	0.017
[illegible]) L6 Aroclor-1254 {5}	8.83	9.04f	[illegible]0	7703	0.015	0.055 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G[illegible]401\0401023.D\ECD1A.CH Vial: 23
Signal #2 : E:\HPCHEM\GEORGE\DATA\G[illegible]401\0401023.D\ECD2B.CH
Acq On : 1 Apr 2004 9:3[illegible] pm Operator:
Sample : 04-007-02 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 21:54 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\[illegible]040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:2[illegible]
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
Sum Aroclor-1254			[illegible]68	18052	0.059	0.155
Average Aroclor-1254					0.012	0.031
35) L7 Aroclor-1260 {4}	0.00	10.1[illegible]	0	3849	N.D.	0.005 #
Sum Aroclor-1260			0	3849	N.D.	0.005
Average Aroclor-1260					0.000	0.005

(f)=RT Delta > 1/2 Window (#)=Amounts [illegible]r by > 25% (m)=manual int.

Quantitation Report

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401023.D\ECD1A.CH Vial: 23
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401023.D\ECD2B.CH
Acq On : 1 Apr 2004 9:33 pm
Sample : 04-007-02
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

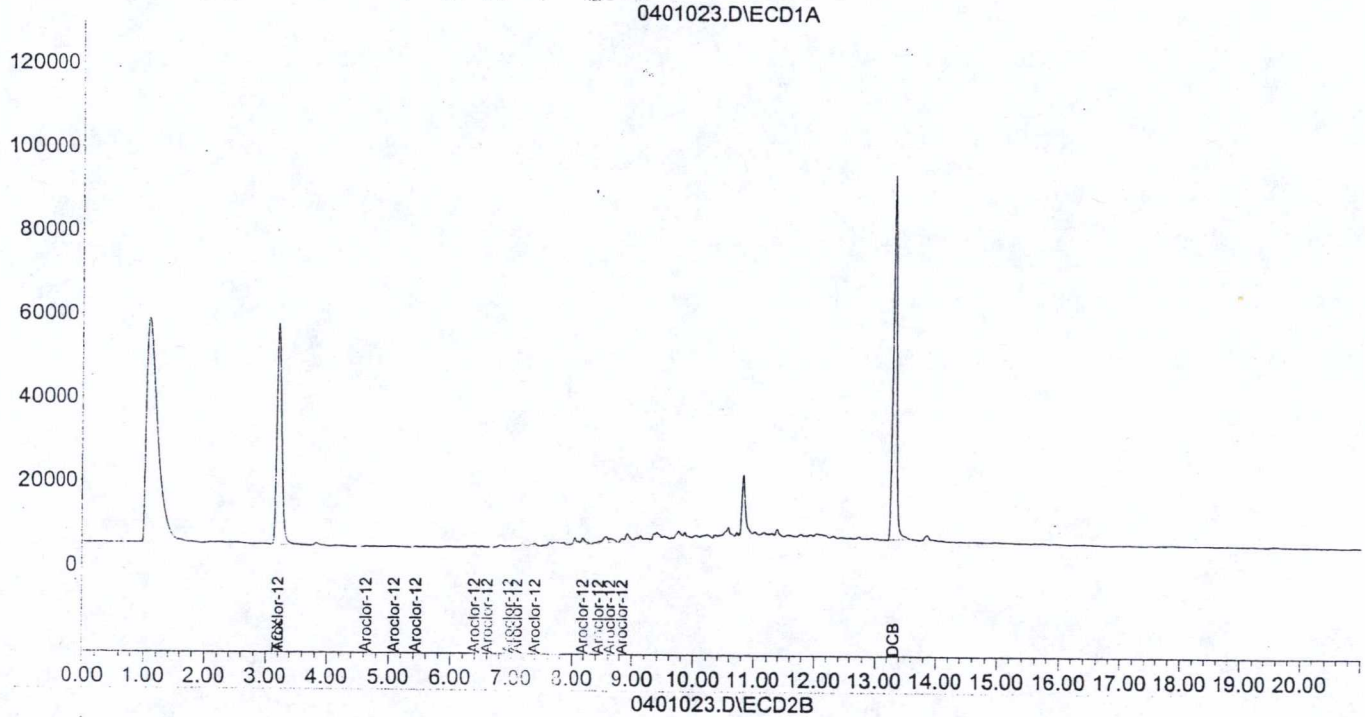
Quant Time: Apr 1 21:54 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:53 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

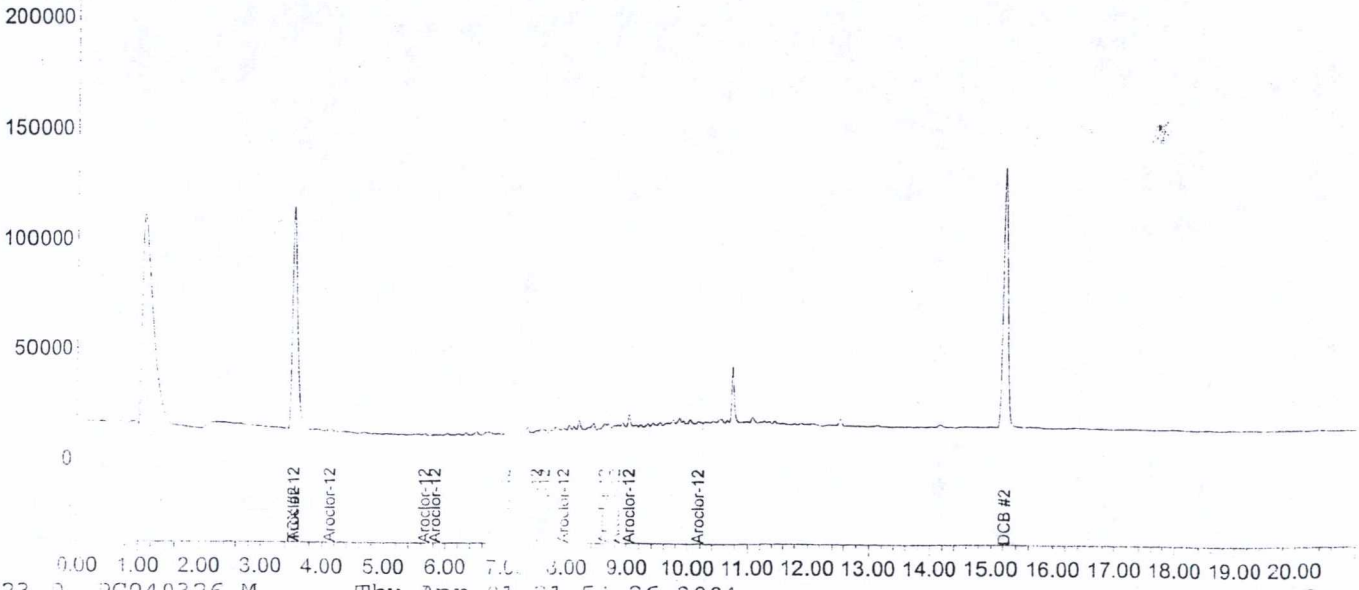
Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

0401023.D\ECD1A



0401023.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401024.D\ECD1A.CH Vial: 24
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401024.D\ECD2B.CH
Acq On : 1 Apr 2004 9:56 pm
Sample : 04-007-03
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 22:18 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:56 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	63280	133340	0.091	0.094
Spiked Amount 0.100			Recovery	=	91.00%	94.00%
7) S DCB	13.30	15.22	100775	129306	0.101	0.100
Spiked Amount 0.100			Recovery	=	101.00%	100.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
8) L2 Aroclor-1221 {2}	0.00	3.92	0	2623	N.D.	0.347 #
9) L2 Aroclor-1221 {3}	0.00	4.12	0	4162	N.D.	0.144 #
10) L2 Aroclor-1221 {4}	4.89f	4.44	266	2165	0.040	0.041
Sum Aroclor-1221			266	8950	0.040	0.532
Average Aroclor-1221					0.040	0.177
13) L3 Aroclor-1232 {2}	3.20	3.54	63280	133340	0.473	0.492
14) L3 Aroclor-1232 {3}	0.00	4.12	0	4162	N.D.	0.188 #
15) L3 Aroclor-1232 {4}	0.00	4.44	0	2165	N.D.	0.047 #
Sum Aroclor-1232			63280	139666	0.473	0.728
Average Aroclor-1232					0.473	0.243
18) L4 Aroclor-1242	0.00	4.12	0	4162	N.D.	0.353 #
19) L4 Aroclor-1242 {2}	0.00	4.44	0	2165	N.D.	0.063 #
Sum Aroclor-1242			0	6327	N.D.	0.416
Average Aroclor-1242					0.000	0.208
23) L5 Aroclor-1248 {2}	0.00	6.46	0	483	N.D.	0.006 #
Sum Aroclor-1248			0	483	N.D.	0.006
Average Aroclor-1248					0.000	0.006
28) L6 Aroclor-1254 {2}	8.18	0.00	105	0	0.001	N.D. #
29) L6 Aroclor-1254 {3}	8.43f	0.00	80	0	0.002	N.D. #
30) L6 Aroclor-1254 {5}	8.83f	9.00	109	941	0.002	0.007 #
Sum Aroclor-1254			295	941	0.004	0.007
Average Aroclor-1254					0.001	0.007
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amount Differs by > 25% (m)=manual int.

Quantitation Report

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401024.D\ECD1A.CH Vial: 24
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401024.D\ECD2B.CH
Acq On : 1 Apr 2004 9:56 pm
Sample : 04-007-03
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

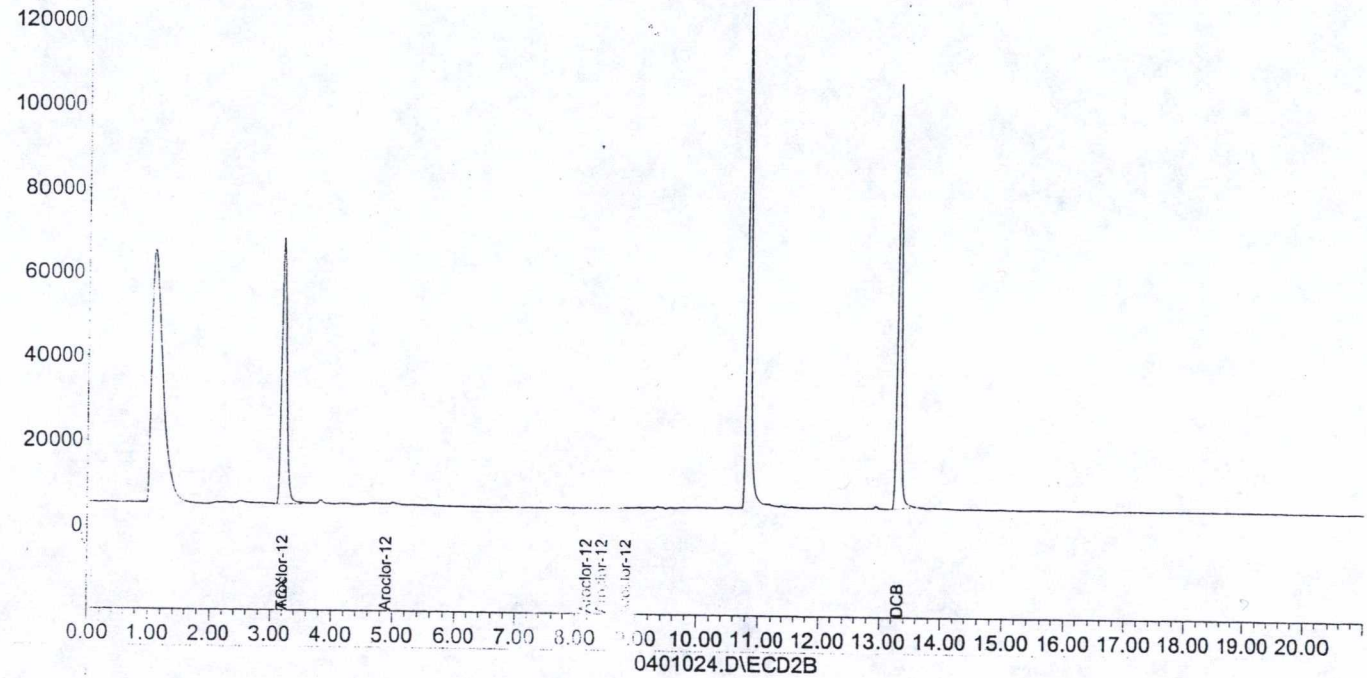
Quant Time: Apr 1 22:18 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:09 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

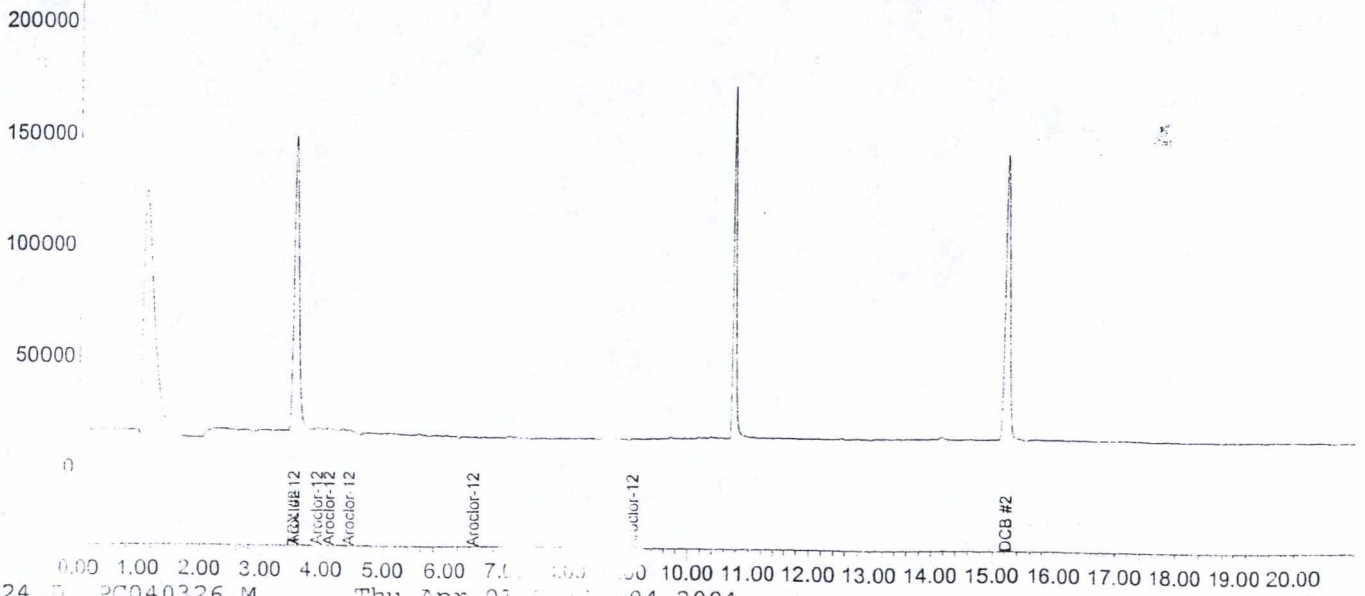
Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

0401024.D\ECD1A



0401024.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401025.D\ECD1A.CH Vial: 25
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401025.D\ECD2B.CH
Acq On : 1 Apr 2004 10:20 pm Operator:
Sample : 04-007-04 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 22:41 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:56 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	55116	118949	0.080	0.083
Spiked Amount 0.100			Recovery	=	80.00%	83.00%
7) S DCB	13.30	15.22	88778	118937	0.089	0.092
Spiked Amount 0.100			Recovery	=	89.00%	92.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
8) L2 Aroclor-1221 {2}	0.00	3.91	0	934	N.D.	0.123 #
9) L2 Aroclor-1221 {3}	0.00	4.12	0	2483	N.D.	0.086 #
Sum Aroclor-1221			0	3417	N.D.	0.209
Average Aroclor-1221					0.000	0.105
13) L3 Aroclor-1232 {2}	3.20	3.54	55116	118949	0.413	0.439
14) L3 Aroclor-1232 {3}	0.00	4.12	0	2483	N.D.	0.112 #
Sum Aroclor-1232			55116	121432	0.413	0.552
Average Aroclor-1232					0.413	0.276
17) L4 Aroclor-1242	0.00	4.12	0	2483	N.D.	0.211 #
18) L4 Aroclor-1242 {3}	5.08	0.00	128	0	0.014	N.D. #
19) L4 Aroclor-1242 {5}	0.00	5.84	0	295	N.D.	0.002 #
Sum Aroclor-1242			128	2778	0.014	0.213
Average Aroclor-1242					0.014	0.106
24) L5 Aroclor-1248	0.00	5.84	0	295	N.D.	0.003 #
25) L5 Aroclor-1248 {4}	0.00	7.52	0	853	N.D.	0.007 #
Sum Aroclor-1248			0	1148	N.D.	0.010
Average Aroclor-1248					0.000	0.005
27) L6 Aroclor-1254	0.00	7.52	0	853	N.D.	0.014 #
28) L6 Aroclor-1254 {3}	8.43f	0.00	76	0	0.003	N.D. #
29) L6 Aroclor-1254 {5}	0.00	9.[illegible]	0	950	N.D.	0.007 #
Sum Aroclor-1254			76	1803	0.003	0.020
Average Aroclor-1254					0.003	0.010
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amount Outside by > 25% (m)=manual int.

Quan[illegible]ation Report

Signal #1 : E:\HPCHEM\GEORGE\DATA\G[illegible]01\0401025.D\ECD1A.CH Vial: 25
Signal #2 : E:\HPCHEM\GEORGE\DATA\G[illegible]01\0401025.D\ECD2B.CH
Acq On : 1 Apr 2004 10:2[illegible] pm
Sample : 04-007-04
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

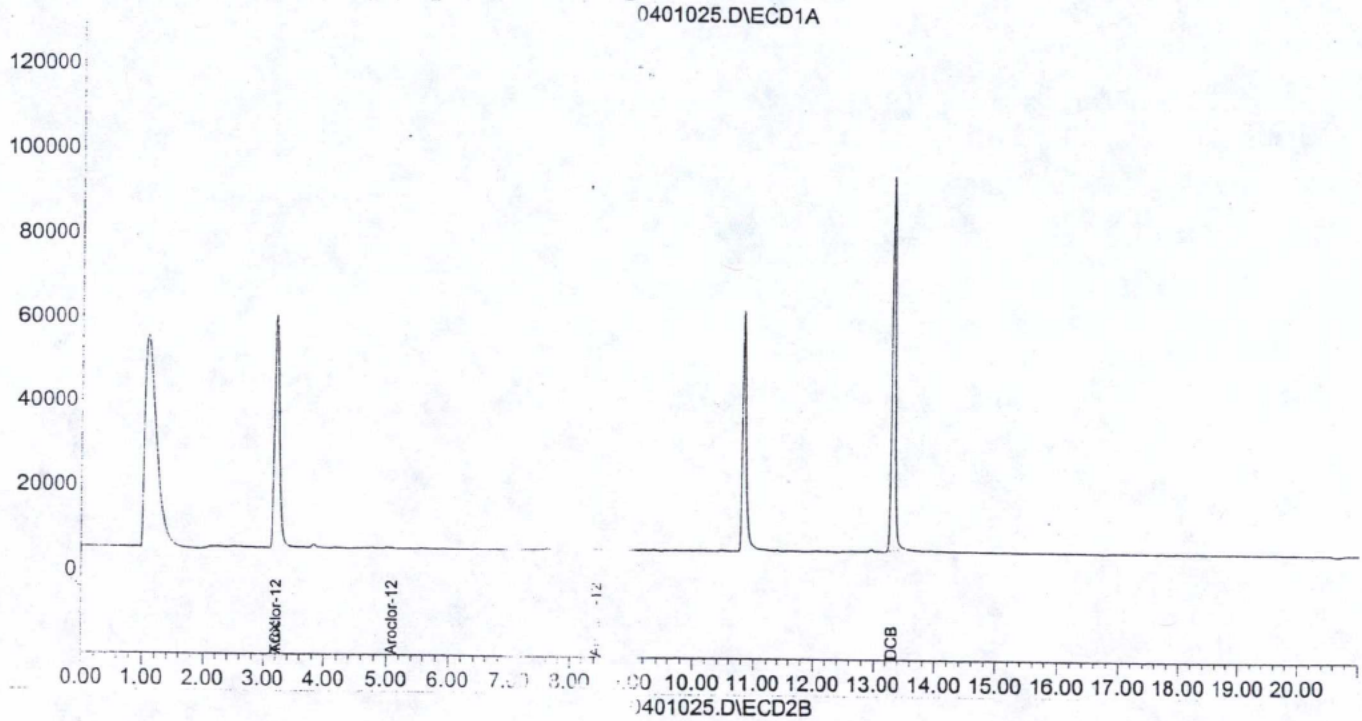
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

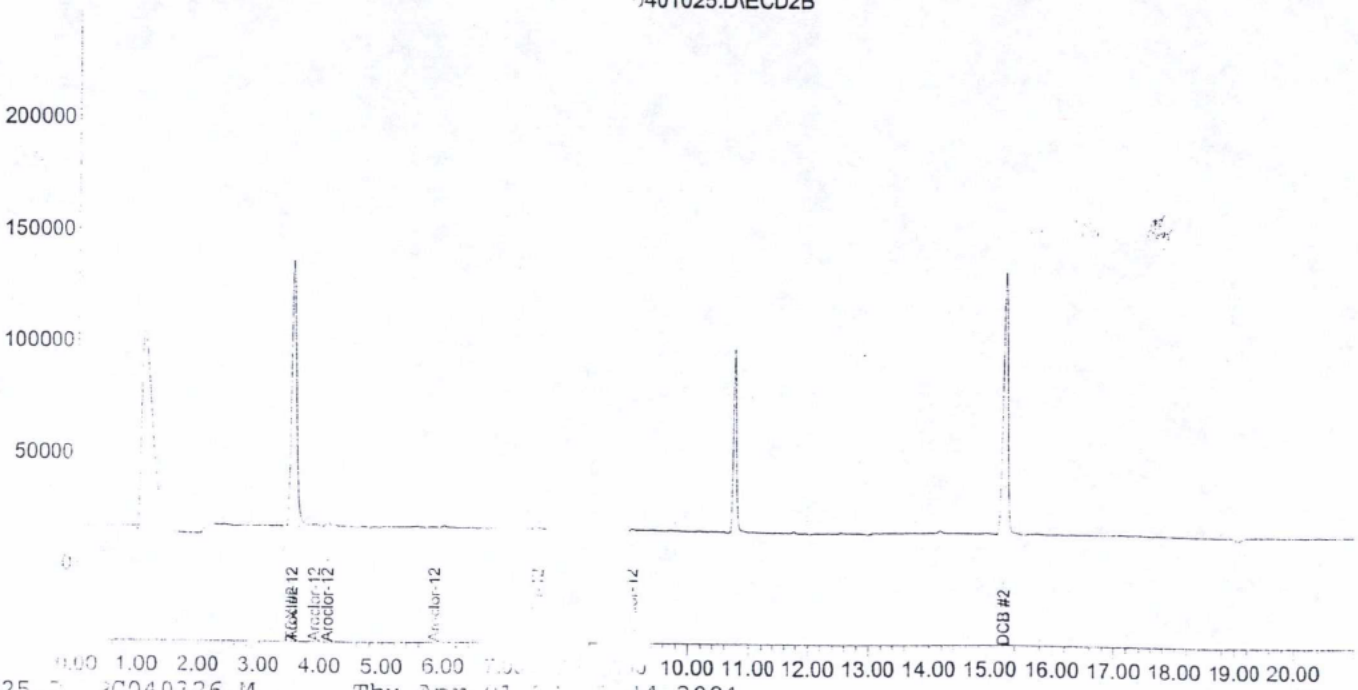
Quant Time: Apr 1 22:41 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\[illegible]0326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:[illegible]
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401026.D\ECD1A.CH Vial: 26
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401026.D\ECD2B.CH
Acq On : 1 Apr 2004 10:44 pm Operator:
Sample : 04-007-05 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 23:05 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:[illegible] 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	3.54	[illegible]	71919	0.060	0.049
Spiked Amount 0.100			Recovery	=	60.00%	49.00%
[illegible]) S DCB	13.30	15.21	91690	126231	0.092	0.098
Spiked Amount 0.100			Recovery	=	92.00%	98.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
[illegible]) L2 Aroclor-1221 {3}	4.07	4.13	[illegible]	1121	0.005	0.039 #
[illegible]) L2 Aroclor-1221 {4}	0.00	4.45	[illegible]0	702	N.D.	0.013 #
[illegible]) L2 Aroclor-1221 {5}	5.43	0.00	[illegible]5	0	0.021	N.D. #
Sum Aroclor-1221			[illegible]	1822	0.026	0.052
Average Aroclor-1221					0.013	0.026
13) L3 Aroclor-1232 {2}	3.19	3.54	41961	71919	0.314	0.266
14) L3 Aroclor-1232 {3}	0.00	4.13	[illegible]0	1121	N.D.	0.051 #
[illegible]) L3 Aroclor-1232 {4}	4.07	4.45	[illegible]	702	0.005	0.015 #
[illegible]) L3 Aroclor-1232 {5}	4.66	0.00	108	0	0.006	N.D. #
Sum Aroclor-1232			422[illegible]7	73742	0.325	0.332
Average Aroclor-1232					0.108	0.111
[illegible]) L4 Aroclor-1242	4.07	4.13	[illegible]	1121	0.008	0.095 #
18) L4 Aroclor-1242 {2}	4.66	[illegible]	[illegible]3	702	0.003	0.020 #
20) L4 Aroclor-1242 {4}	5.43	0.00	[illegible]	0	0.002	N.D. #
[illegible]) L4 Aroclor-1242 {5}	5.64	0.00	[illegible]2	0	0.004	N.D. #
Sum Aroclor-1242			[illegible]	1822	0.017	0.115
Average Aroclor-1242					0.004	0.058
[illegible]) L5 Aroclor-1248	5.99f	0.00	[illegible]	0	0.003	N.D. #
23) L5 Aroclor-1248 {2}	6.41	[illegible]	[illegible]	0	0.002	N.D. #
24) L5 Aroclor-1248 {3}	6.59	0.00	[illegible]	0	0.003	N.D. #
[illegible]) L5 Aroclor-1248 {4}	6.93	7.5[illegible]	[illegible]	376	0.005	0.003 #
[illegible]) L5 Aroclor-1248 {5}	7.09	7.[illegible]f	[illegible]	451	0.007	0.004 #
Sum Aroclor-1248			[illegible]	828	0.020	0.007
Average Aroclor-1248					0.004	0.004
[illegible]) L6 Aroclor-1254	7.40	7.50	[illegible]	376	0.008	0.006 #
28) L6 Aroclor-1254 {2}	8.18	7.8[illegible]	[illegible]	851	0.010	0.007 #
[illegible]) L6 Aroclor-1254 {3}	8.44	8.5[illegible]	[illegible]	850	0.017	0.009 #
[illegible]) L6 Aroclor-1254 {4}	8.62	8.[illegible]	[illegible]	1348	0.008	0.008

(f)=RT Delta > 1/2 Window (#)=Am[illegible] [illegible]f by > 25% (m)=manual int.
[illegible]0401026.D PC040326.M Thu [illegible] 1 2004

Quant ta ion R port (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE ATA\G04 1\0401026.D\ECD1A.CH Vial: 26
Signal #2 : E:\HPCHEM\GEORGE A 1\0401026.D\ECD2B.CH
Acq On : 1 Apr 2004 10:
Sample : 04-007-05
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e Int le Signal #2: AUTOINT2.E

Quant Time: Apr 1 23:05 200 Q ults File: PC040326.RES

Quant Method : C:\HPCHEM\1\M \PC 326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09: 30
Response via : Initial Cal.
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : al #2 Phase:
Signal #1 Info : al #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
1) L6 Aroclor-1254 {5}	8.83	9.	1	1699	0.020	0.012 #
Sum Aroclor-1254			4	5124	0.063	0.042
Average Aroclor-1254					0.013	0.008
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Am by > 25% (m)=manual int.
0401026.D PC040326.M Thu A 1 2004

ation Report

Signal #1 : E:\HPCHEM\GEORGE G 1\0401026.D\ECD1A.CH Vial: 26
Signal #2 : E:\HPCHEM\GEORGE G 1\0401026.D\ECD2B.CH
Acq On : 1 Apr 2004 10:
Sample : 04-007-05
Misc :

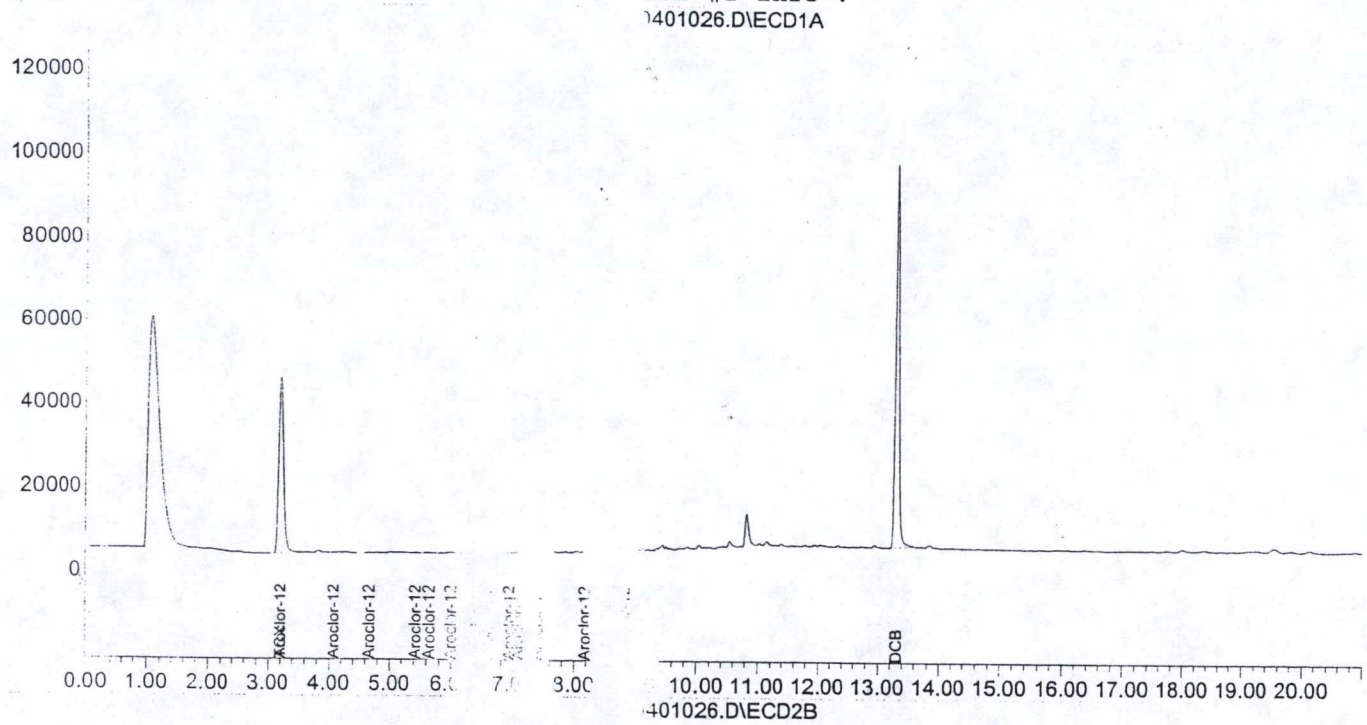
Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

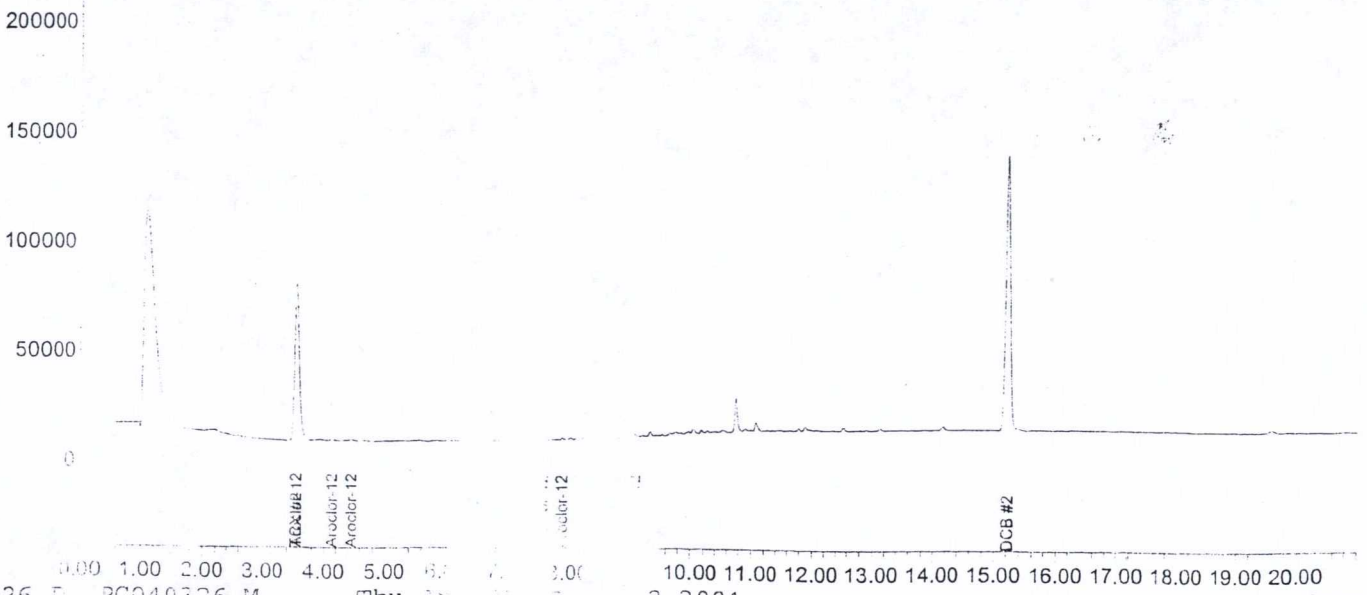
IntFile Signal #1: autoint1. In le Signal #2: AUTOINT2.E

Quant Time: Apr 1 23:05 200 nt sults File: PC040326.RES

Quant Method : C:\HPCHEM\1\ 326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 0
Response via : Multiple Le bri on
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : nal #2 Phase:
Signal #1 Info : nal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401027.D\ECD1A.CH Vial: 27
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401027.D\ECD2B.CH
Acq On : 1 Apr 2004 23:07 Operator:
Sample : 04-007-06 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 23:28 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.55	48116	84718	0.069	0.058
Spiked Amount 0.100			Recovery	=	69.00%	58.00%
7) S DCB	13.30	15.22	85448	114098	0.085	0.088
Spiked Amount 0.100			Recovery	=	85.00%	88.00%
Target Compounds						
) L1 Aroclor-1016 {5}	6.40	6.50	390	2233	N.D.	0.009 #
Sum Aroclor-1016			0	2233	N.D.	0.009
Average Aroclor-1016					0.000	0.009
) L2 Aroclor-1221 {3}	4.08	4.13	83	1389	0.003	0.048 #
10) L2 Aroclor-1221 {4}	0.00	4.45	0	566	N.D.	0.011 #
11) L2 Aroclor-1221 {5}	5.43	0.00	429	0	0.063	N.D. #
Sum Aroclor-1221			512	1956	0.066	0.059
Average Aroclor-1221					0.033	0.029
13) L3 Aroclor-1232 {2}	3.20	3.55	48116	84718	0.360	0.313
) L3 Aroclor-1232 {3}	0.00	4.13	0	1389	N.D.	0.063 #
) L3 Aroclor-1232 {4}	4.08	4.45	83	566	0.004	0.012 #
16) L3 Aroclor-1232 {5}	4.64f	0.00	261	0	0.013	N.D. #
Sum Aroclor-1232			48461	86674	0.376	0.388
Average Aroclor-1232					0.125	0.129
17) L4 Aroclor-1242	4.08	4.13	83	1389	0.005	0.118 #
) L4 Aroclor-1242 {2}	4.64f	4.45	261	566	0.007	0.016 #
) L4 Aroclor-1242 {4}	5.43	5.66f	429	889	0.006	0.024 #
21) L4 Aroclor-1242 {5}	5.64	5.85	132	747	0.004	0.006 #
Sum Aroclor-1242			906	3592	0.022	0.164
Average Aroclor-1242					0.006	0.041
22) L5 Aroclor-1248	6.00	5.85	374	747	0.006	0.008 #
) L5 Aroclor-1248 {2}	6.40f	0.00	390	0	0.007	N.D. #
) L5 Aroclor-1248 {3}	6.59	6.97	203	1612	0.004	0.016 #
) L5 Aroclor-1248 {4}	6.95	7.50	478	3403	0.014	0.027 #
26) L5 Aroclor-1248 {5}	7.09	7.57f	829	4690	0.011	0.044 #
Sum Aroclor-1248			2273	10453	0.042	0.096
Average Aroclor-1248					0.008	0.024
27) L6 Aroclor-1254	7.40	7.50	1826	3403	0.025	0.055 #
) L6 Aroclor-1254 {2}	8.18	7.89	3286	5048	0.031	0.040 #
) L6 Aroclor-1254 {3}	8.44	8.62f	2337	8556	0.044	0.092 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401027.D\ECD1A.CH Vial: 27
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401027.D\ECD2B.CH
Acq On : 1 Apr 2004 23:07 Operator:
Sample : 04-007-06 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 23:28 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
0) L6 Aroclor-1254 {4}	8.62	8.80f	2260	8490	0.031	0.051 #
1) L6 Aroclor-1254 {5}	8.84	9.04f	3817	15822	0.067	0.113 #
Sum Aroclor-1254			13526	41319	0.199	0.350
Average Aroclor-1254					0.040	0.070
32) L7 Aroclor-1260	8.44	8.80	2337	8490	0.013	0.081 #
33) L7 Aroclor-1260 {2}	8.84	0.00	3817	0	0.025	N.D. #
34) L7 Aroclor-1260 {3}	0.00	9.34	0	12727	N.D.	0.046 #
35) L7 Aroclor-1260 {4}	10.54	10.16	6787	12988	0.035	0.072 #
36) L7 Aroclor-1260 {5}	11.13	11.07	3791	21622	0.037	0.057 #
Sum Aroclor-1260			16732	55826	0.110	0.255
Average Aroclor-1260					0.028	0.064

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

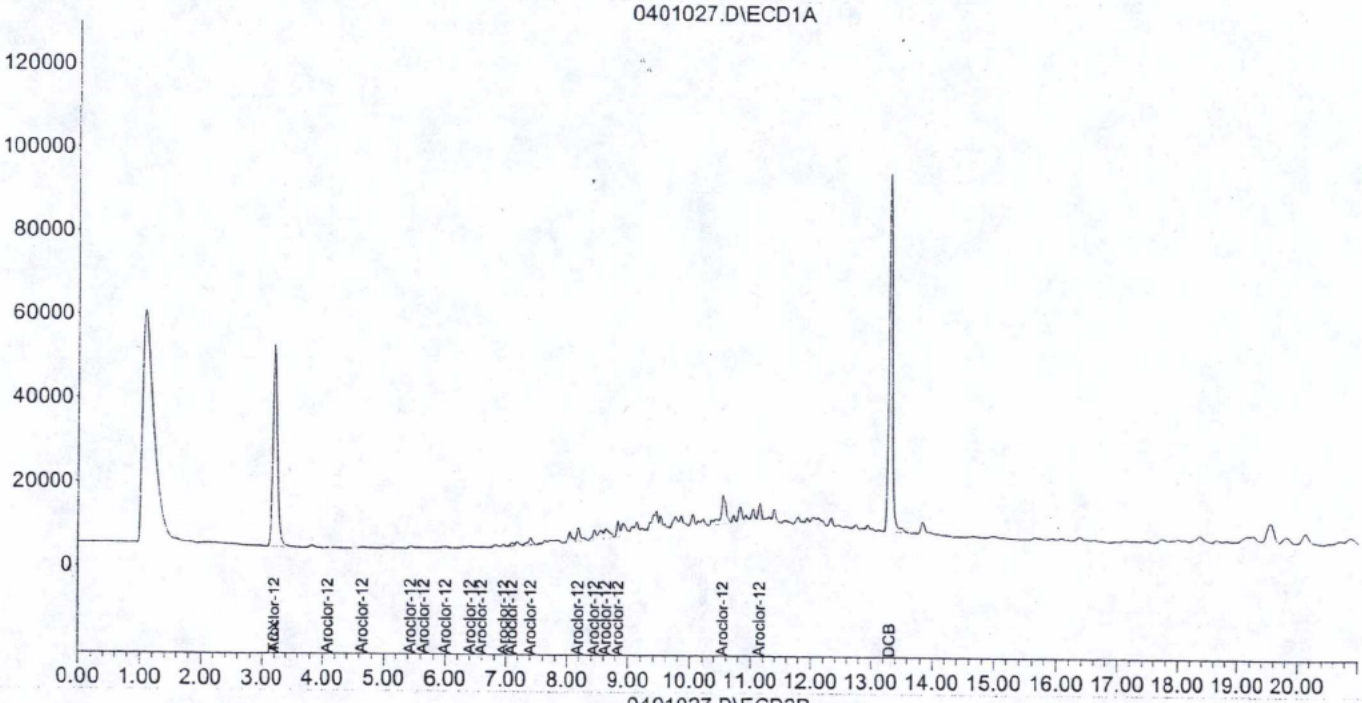
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401027.D\ECD1A.CH Vial: 27
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401027.D\ECD2B.CH
Acq On : 1 Apr 2004 23:07 Operator:
Sample : 04-007-06 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 23:28 2004 Quant Results File: PC040326.RES

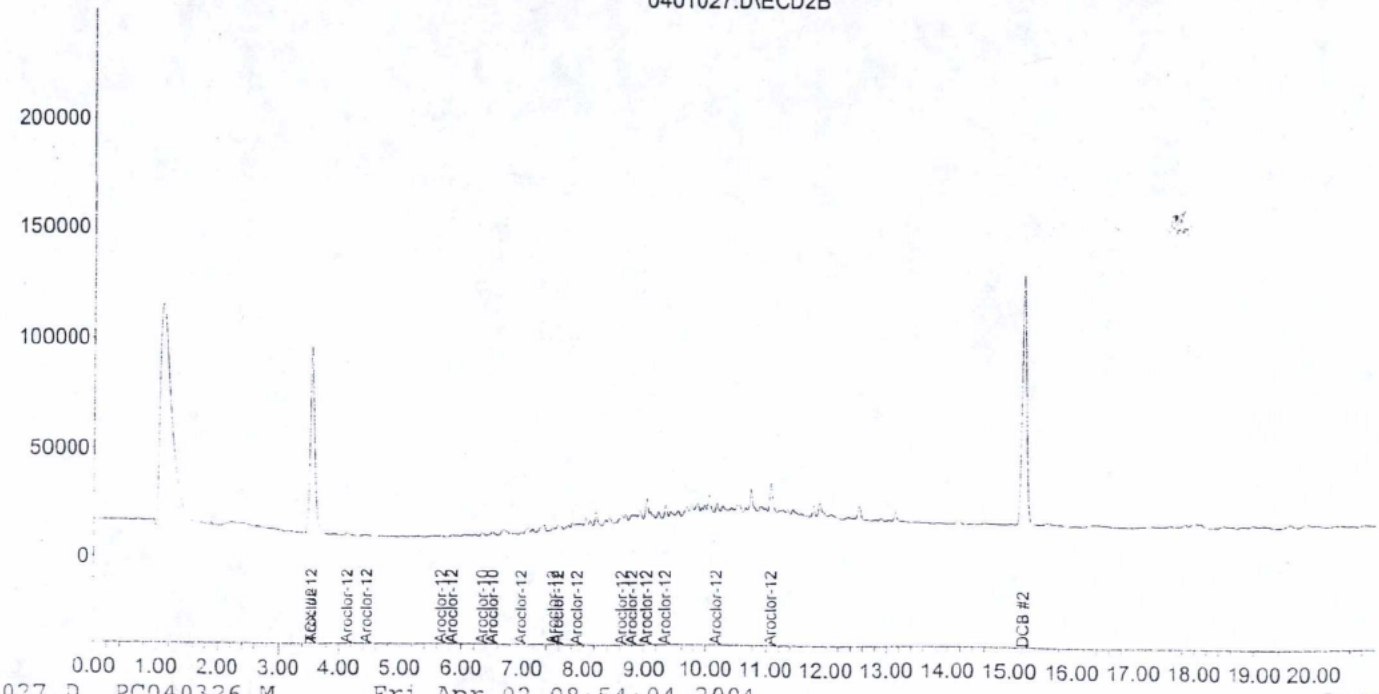
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401027.D\ECD1A



0401027.D\ECD2B



Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401030.D\ECD1A.CH Vial: 30
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401030.D\ECD2B.CH
Acq On : 2 Apr 2004 00:17 Operator:
Sample : 04-007-07 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 9:03 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.55	48587	84859	0.070	0.058
Spiked Amount 0.100			Recovery	=	70.00%	58.00%
[illegible]) S DCB	13.30	15.22	83921	111237	0.084	0.085
Spiked Amount 0.100			Recovery	=	84.00%	85.00%
Target Compounds						
[illegible]) L1 Aroclor-1016 {4}	6.00	6.34f	542	2166	N.D.	0.012 #
6) L1 Aroclor-1016 {5}	6.41	6.50	544	3458	N.D.	0.032 #
Sum Aroclor-1016			0	5623	N.D.	0.044
Average Aroclor-1016					0.000	0.022
9) L2 Aroclor-1221 {3}	4.08	4.13	453	1486	0.016	0.051 #
10) L2 Aroclor-1221 {4}	0.00	4.46	0	1448	N.D.	0.028 #
[illegible]) L2 Aroclor-1221 {5}	5.44	0.00	497	0	0.073	N.D. #
Sum Aroclor-1221			949	2934	0.089	0.079
Average Aroclor-1221					0.045	0.039
[illegible]) L3 Aroclor-1232 {2}	3.20	3.55	48587	84859	0.363	0.313
14) L3 Aroclor-1232 {3}	0.00	4.13	0	1486	N.D.	0.067 #
15) L3 Aroclor-1232 {4}	4.08	4.46	453	1448	0.019	0.032 #
[illegible]) L3 Aroclor-1232 {5}	4.64f	0.00	275	0	0.014	N.D. #
Sum Aroclor-1232			49315	87793	0.396	0.412
Average Aroclor-1232					0.132	0.137
[illegible]) L4 Aroclor-1242	4.08	4.13	453	1486	0.027	0.126 #
[illegible]) L4 Aroclor-1242 {2}	4.64f	4.46	275	1448	0.008	0.042 #
20) L4 Aroclor-1242 {4}	5.44	5.66	497	1395	0.007	0.038 #
21) L4 Aroclor-1242 {5}	5.64	5.84	126	966	0.004	0.007 #
Sum Aroclor-1242			1351	5295	0.046	0.214
Average Aroclor-1242					0.011	0.053
[illegible]) L5 Aroclor-1248	6.00	5.84	542	966	0.009	0.010
[illegible]) L5 Aroclor-1248 {2}	6.41	0.00	544	0	0.009	N.D. #
24) L5 Aroclor-1248 {3}	6.60	6.97	312	2509	0.007	0.025 #
25) L5 Aroclor-1248 {4}	6.95	7.50	798	5282	0.024	0.043 #
[illegible]) L5 Aroclor-1248 {5}	7.10	7.62	1537	5486	0.020	0.052 #
Sum Aroclor-1248			3733	14242	0.069	0.130
Average Aroclor-1248					0.014	0.033
[illegible]) L6 Aroclor-1254	7.41	7.50	2894	1984	0.040	0.032m
[illegible]) L6 Aroclor-1254 {2}	8.19	7.89	5330	2543	0.051	0.020m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401030.D\ECD1A.CH Vial: 30
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401030.D\ECD2B.CH
Acq On : 2 Apr 2004 00:17 Operator:
Sample : 04-007-07 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 9:03 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
2) L6 Aroclor-1254 {3}	8.44	8.62f	3864	4383	0.073	0.047m#
3) L6 Aroclor-1254 {4}	8.63	8.76	4017	3168	0.054	0.019m#
31) L6 Aroclor-1254 {5}	8.84	9.04f	5965	10785	0.105	0.077m#
Sum Aroclor-1254			22071	22863	0.324	0.195
Average Aroclor-1254					0.065	0.039
32) L7 Aroclor-1260	8.44	8.81	3864	11115	0.034	0.114 #
33) L7 Aroclor-1260 {2}	8.84	9.10	5965	13063	0.048	0.069 #
34) L7 Aroclor-1260 {3}	10.04	9.34	4069	18300	0.050	0.079 #
35) L7 Aroclor-1260 {4}	10.54	10.16	8179	16030	0.044	0.094 #
36) L7 Aroclor-1260 {5}	11.14	11.07	4347	25982	0.043	0.072 #
Sum Aroclor-1260			26424	84490	0.219	0.429
Average Aroclor-1260					0.044	0.086

KMS 4-2-04
COL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

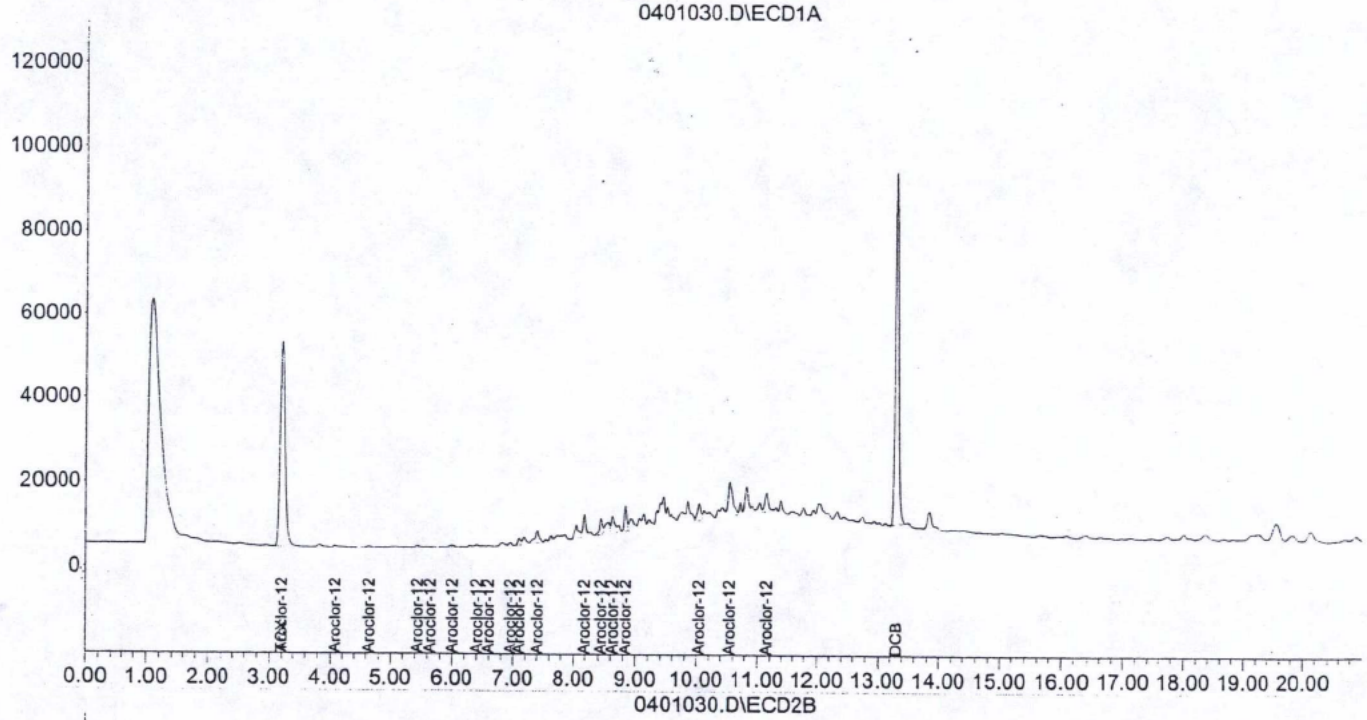
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401030.D\ECD1A.CH Vial: 30
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401030.D\ECD2B.CH
Acq On : 2 Apr 2004 00:17 Operator:
Sample : 04-007-07 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 9:03 2004 Quant Results File: PC040326.RES

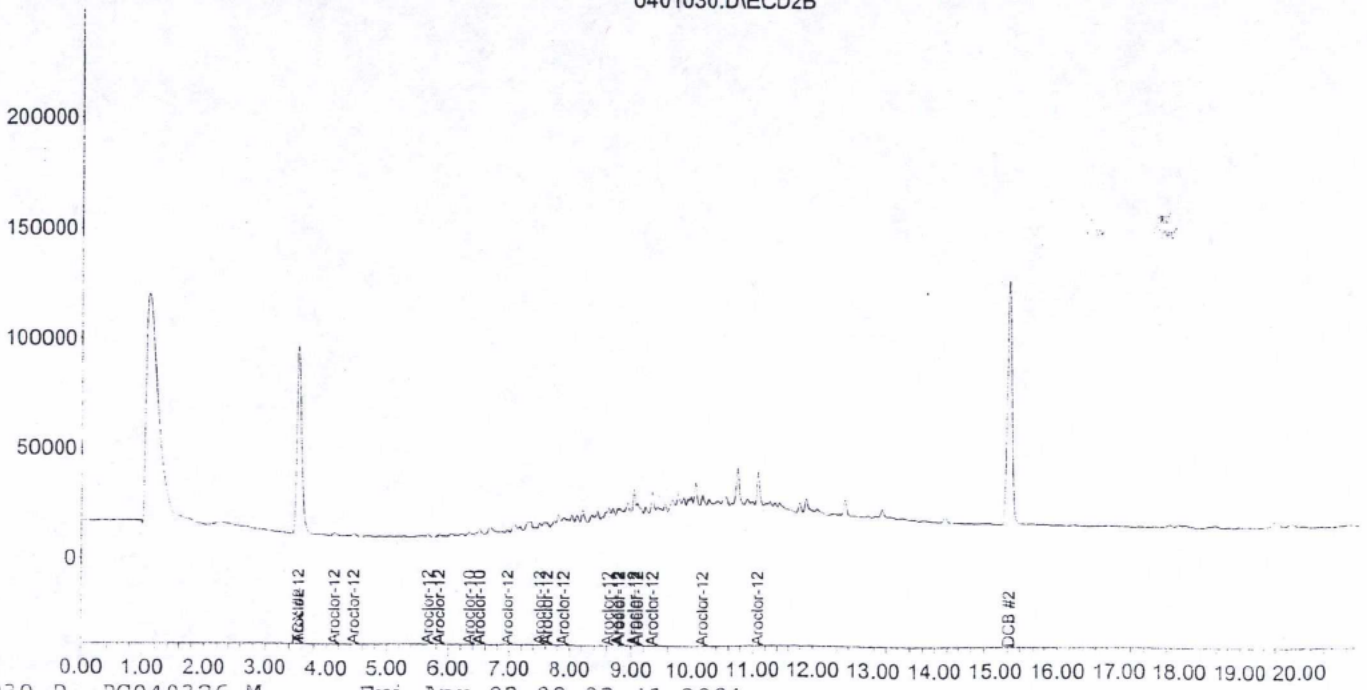
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401030.D\ECD1A



0401030.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401031.D\ECD1A.CH Vial: 31
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401031.D\ECD2B.CH
Acq On : 2 Apr 2004 00:41 Operator:
Sample : 04-007-08 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 1:02 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	52336	112123	0.075	0.078
Spiked Amount 0.100			Recovery	=	75.00%	78.00%
) S DCB	13.30	15.21	82927	103539	0.083	0.079
Spiked Amount 0.100			Recovery	=	83.00%	79.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
) L2 Aroclor-1221 {3}	0.00	4.12	0	2003	N.D.	0.069 #
Sum Aroclor-1221			0	2003	N.D.	0.069
Average Aroclor-1221					0.000	0.069
) L3 Aroclor-1232 {2}	3.20	3.54	52336	112123	0.391	0.414
) L3 Aroclor-1232 {3}	0.00	4.12	0	2003	N.D.	0.091 #
Sum Aroclor-1232			52336	114126	0.391	0.505
erage Aroclor-1232					0.391	0.252
17) L4 Aroclor-1242	0.00	4.12	0	2003	N.D.	0.170 #
Sum Aroclor-1242			0	2003	N.D.	0.170
erage Aroclor-1242					0.000	0.170
25) L5 Aroclor-1248 {4}	6.94	0.00	235	0	0.007	N.D. #
Sum Aroclor-1248			235	0	0.007	N.D.
erage Aroclor-1248					0.007	0.000
28) L6 Aroclor-1254 {2}	8.18	0.00	548	0	0.005	N.D. #
31) L6 Aroclor-1254 {5}	0.00	9.09f	0	677	N.D.	0.005 #
Sum Aroclor-1254			548	677	0.005	0.005
erage Aroclor-1254					0.005	0.005
Sum Aroclor-1260			0	0	N.D.	N.D.
erage Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

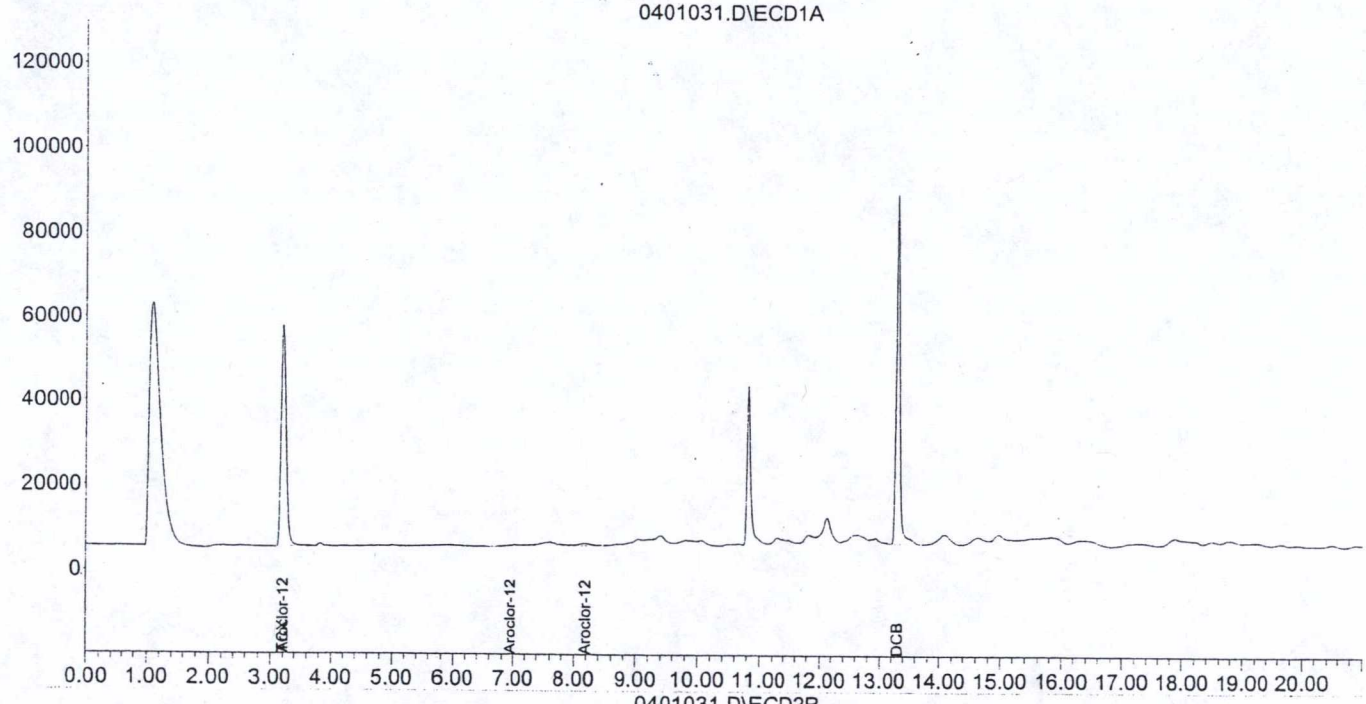
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401031.D\ECD1A.CH Vial: 31
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401031.D\ECD2B.CH
Acq On : 2 Apr 2004 00:41 Operator:
Sample : 04-007-08 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 1:02 2004 Quant Results File: PC040326.RES

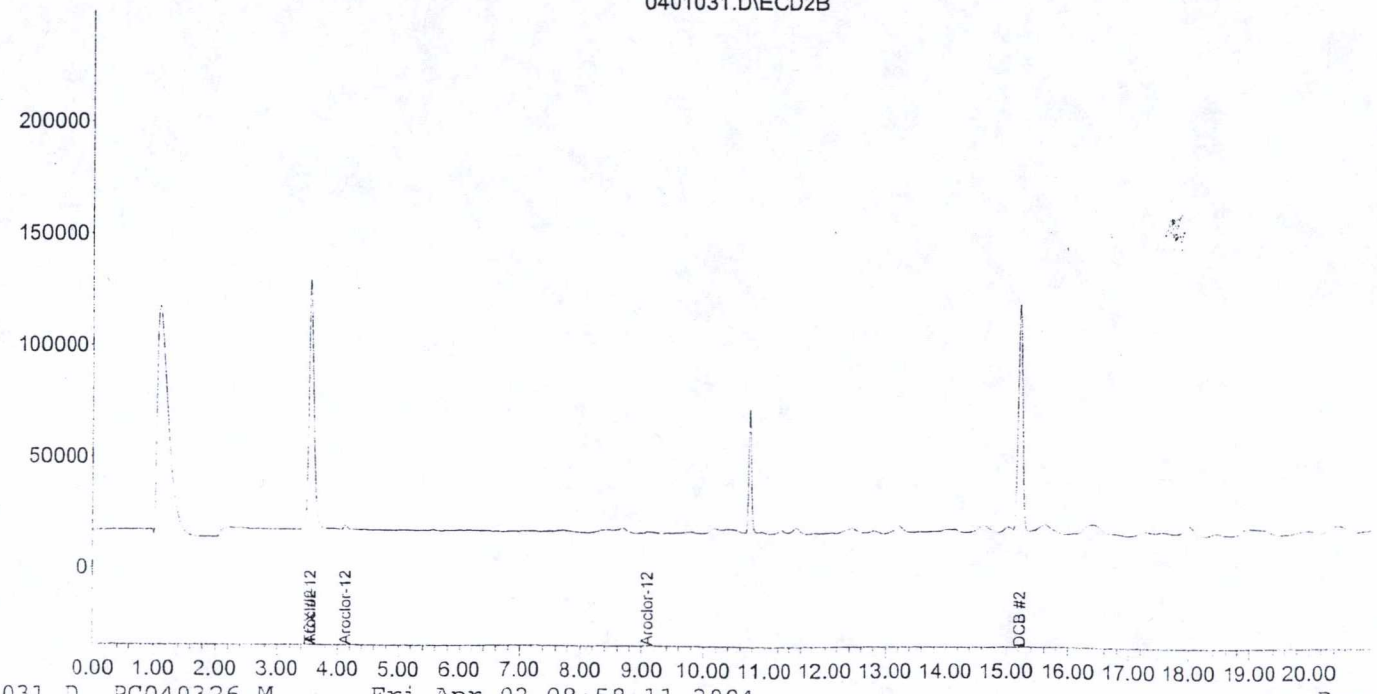
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401031.D\ECD1A



0401031.D\ECD2B



Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401032.D\ECD1A.CH Vial: 32
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401032.D\ECD2B.CH
Acq On : 2 Apr 2004 1:04 Operator:
Sample : 04-007-10 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 9:07 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.55	52089	93353	0.075	0.065
Spiked Amount 0.100			Recovery	=	75.00%	65.00%
7) S DCB	13.30	15.21	87570	113799	0.088	0.087
Spiked Amount 0.100			Recovery	=	88.00%	87.00%
Target Compounds						
8) L1 Aroclor-1016 {5}	6.41	6.50	513	2736	N.D.	0.019 #
Sum Aroclor-1016			0	2736	N.D.	0.019
Average Aroclor-1016					0.000	0.019
9) L2 Aroclor-1221 {3}	4.07	4.13	410	1540	0.015	0.053 #
10) L2 Aroclor-1221 {4}	0.00	4.45	0	1327	N.D.	0.025 #
11) L2 Aroclor-1221 {5}	5.43	0.00	483	0	0.071	N.D. #
Sum Aroclor-1221			893	2867	0.086	0.079
Average Aroclor-1221					0.043	0.039
12) L3 Aroclor-1232 {2}	3.20	3.55	52089	93353	0.389	0.345
13) L3 Aroclor-1232 {3}	0.00	4.13	0	1540	N.D.	0.070 #
15) L3 Aroclor-1232 {4}	4.07	4.45	410	1327	0.017	0.029 #
16) L3 Aroclor-1232 {5}	4.64f	0.00	295	0	0.015	N.D. #
Sum Aroclor-1232			52794	96220	0.422	0.443
Average Aroclor-1232					0.141	0.148
17) L4 Aroclor-1242	4.07	4.13	410	1540	0.025	0.131 #
18) L4 Aroclor-1242 {2}	4.64f	4.45	295	1327	0.008	0.038 #
20) L4 Aroclor-1242 {4}	5.43	5.66	483	1111	0.007	0.031 #
21) L4 Aroclor-1242 {5}	5.64	5.84	165	947	0.005	0.007 #
Sum Aroclor-1242			1352	4925	0.045	0.207
Average Aroclor-1242					0.011	0.052
22) L5 Aroclor-1248	5.99f	5.84	518	947	0.009	0.010
23) L5 Aroclor-1248 {2}	6.41	0.00	513	0	0.009	N.D. #
24) L5 Aroclor-1248 {3}	6.59	6.96	331	1888	0.007	0.019 #
25) L5 Aroclor-1248 {4}	6.94	7.50	661	4212	0.020	0.034 #
26) L5 Aroclor-1248 {5}	7.09	7.61	1966	4169	0.026	0.039 #
Sum Aroclor-1248			3989	11216	0.070	0.103
Average Aroclor-1248					0.014	0.026
27) L6 Aroclor-1254	7.41	7.50	3390	2115	0.047	0.034m#
28) L6 Aroclor-1254 {2}	8.18	7.89	6738	3677	0.064	0.029m#
29) L6 Aroclor-1254 {3}	8.44	8.57	5953	2869	0.113	0.031m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401032.D\ECD1A.CH Vial: 32
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401032.D\ECD2B.CH
Acq On : 2 Apr 2004 1:04 Operator:
Sample : 04-007-10 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 9:07 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
[redacted])	L6 Aroclor-1254 {4}	8.62	8.76	4548	5584	0.062	0.034m#
[redacted])	L6 Aroclor-1254 {5}	8.84	9.04	9035	10670	0.160	0.076m#
	Sum Aroclor-1254			29665	24915	0.445	0.203
Average	Aroclor-1254					0.089	0.041
[redacted])	L7 Aroclor-1260	8.44	8.76f	5953	5435	0.063	0.041m#
33)	L7 Aroclor-1260 {2}	8.84	9.09	9035	8009	0.082	0.030m#
[redacted])	L7 Aroclor-1260 {3}	10.04	9.33	5796	15071	0.073	0.060m
[redacted])	L7 Aroclor-1260 {4}	10.54	10.16	12063	8025	0.068	0.035m#
36)	L7 Aroclor-1260 {5}	11.14	11.07	6521	22663	0.065	0.061m
	Sum Aroclor-1260			39369	59203	0.352	0.227
Average	Aroclor-1260					0.070	0.045

KWS 4-2-04

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

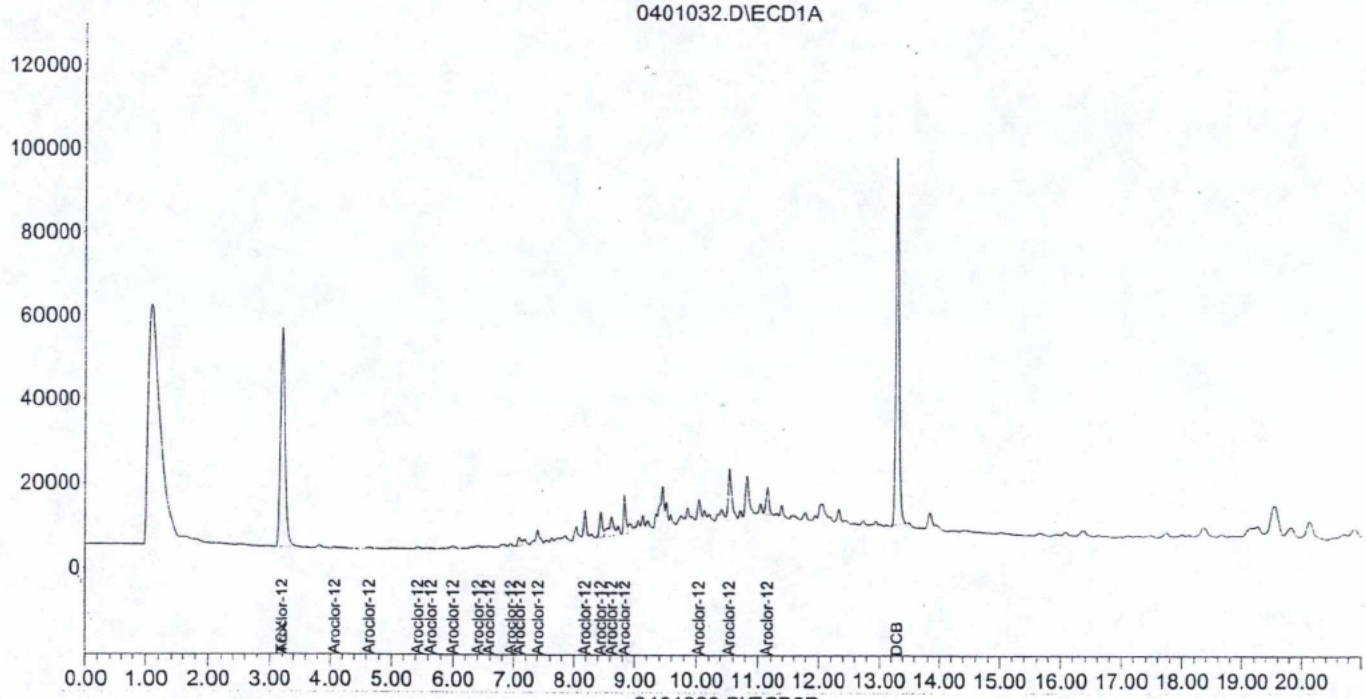
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401032.D\ECD1A.CH Vial: 32
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401032.D\ECD2B.CH
Acq On : 2 Apr 2004 1:04 Operator:
Sample : 04-007-10 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 9:07 2004 Quant Results File: PC040326.RES

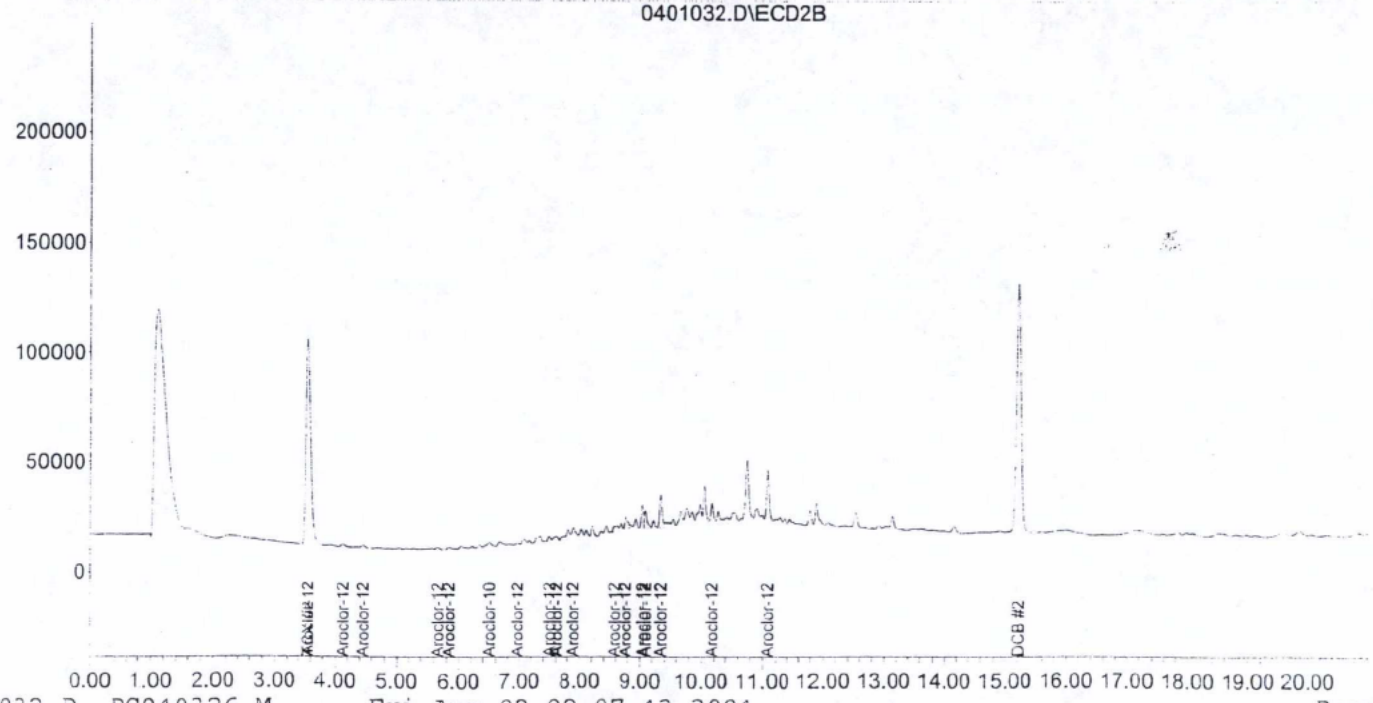
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401032.D\ECD1A



0401032.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401033.D\ECD1A.CH Vial: 33
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401033.D\ECD2B.CH
Acq On : 2 Apr 2004 1:28 Operator:
Sample : 04-007-11 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 1:49 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	55991	119912	0.081	0.084
Spiked Amount 0.100			Recovery	=	81.00%	84.00%
1) S DCB	13.29	15.21	89481	109638	0.090	0.084
Spiked Amount 0.100			Recovery	=	90.00%	84.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
1) L2 Aroclor-1221 {3}	0.00	4.12	0	2116	N.D.	0.073 #
Sum Aroclor-1221			0	2116	N.D.	0.073
Average Aroclor-1221					0.000	0.073
1) L3 Aroclor-1232 {2}	3.20	3.54	55991	119912	0.418	0.443
1) L3 Aroclor-1232 {3}	0.00	4.12	0	2116	N.D.	0.096 #
Sum Aroclor-1232			55991	122028	0.418	0.539
Average Aroclor-1232					0.418	0.269
1) L4 Aroclor-1242	0.00	4.12	0	2116	N.D.	0.180 #
19) L4 Aroclor-1242 {3}	5.08	0.00	254	0	0.015	N.D. #
21) L4 Aroclor-1242 {5}	0.00	5.85	0	258	N.D.	0.002 #
Sum Aroclor-1242			254	2375	0.015	0.182
Average Aroclor-1242					0.015	0.091
2) L5 Aroclor-1248	0.00	5.85	0	258	N.D.	0.003 #
2) L5 Aroclor-1248 {3}	0.00	6.92f	0	440	N.D.	0.004 #
25) L5 Aroclor-1248 {4}	6.94	7.53	549	1590	0.016	0.013
26) L5 Aroclor-1248 {5}	7.15f	0.00	548	0	0.007	N.D. #
Sum Aroclor-1248			1097	2288	0.023	0.020
Average Aroclor-1248					0.012	0.007
27) L6 Aroclor-1254	0.00	7.53	0	1590	N.D.	0.025 #
2) L6 Aroclor-1254 {2}	8.17f	0.00	930	0	0.009	N.D. #
2) L6 Aroclor-1254 {3}	0.00	8.57	0	2546	N.D.	0.027 #
31) L6 Aroclor-1254 {5}	8.81f	9.08	692	1227	0.012	0.009 #
Sum Aroclor-1254			1622	5362	0.021	0.061
Average Aroclor-1254					0.011	0.020
35) L7 Aroclor-1260 {4}	0.00	10.15	0	4047	N.D.	0.006 #
Sum Aroclor-1260			0	4047	N.D.	0.006
Average Aroclor-1260					0.000	0.006

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

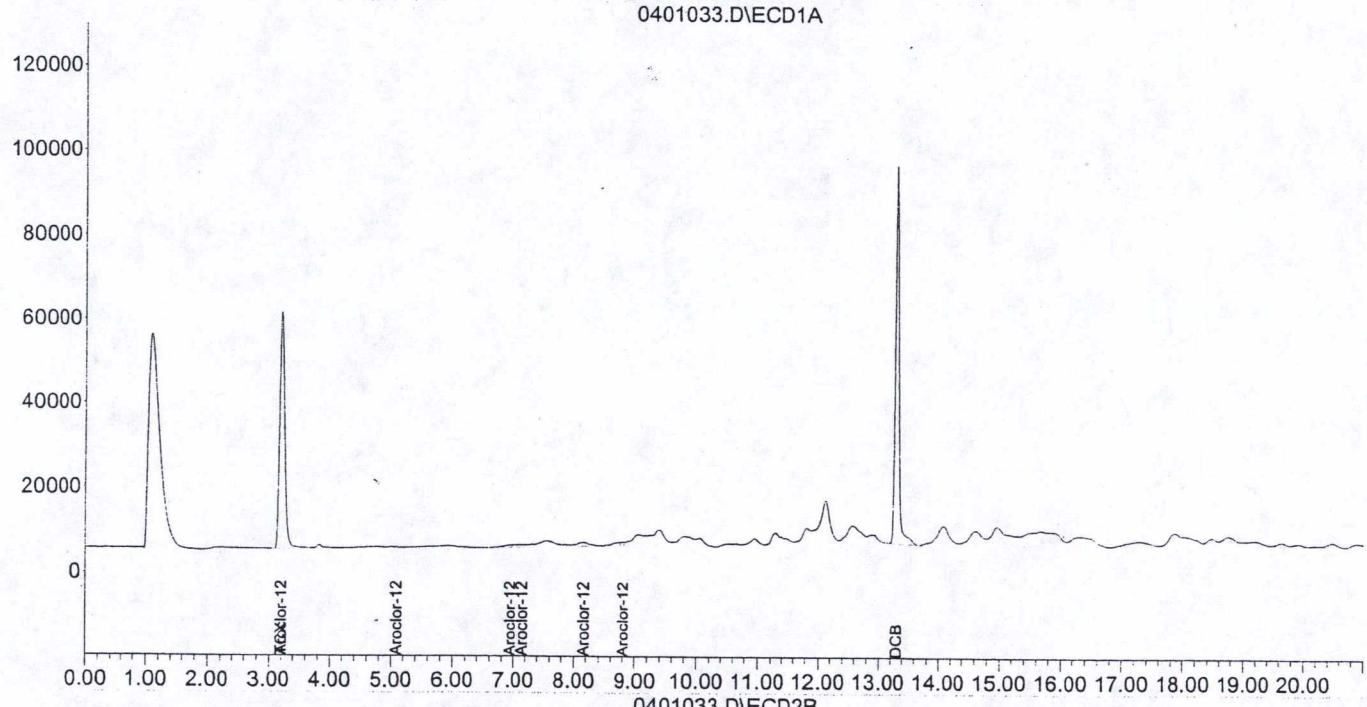
Quantitation Report

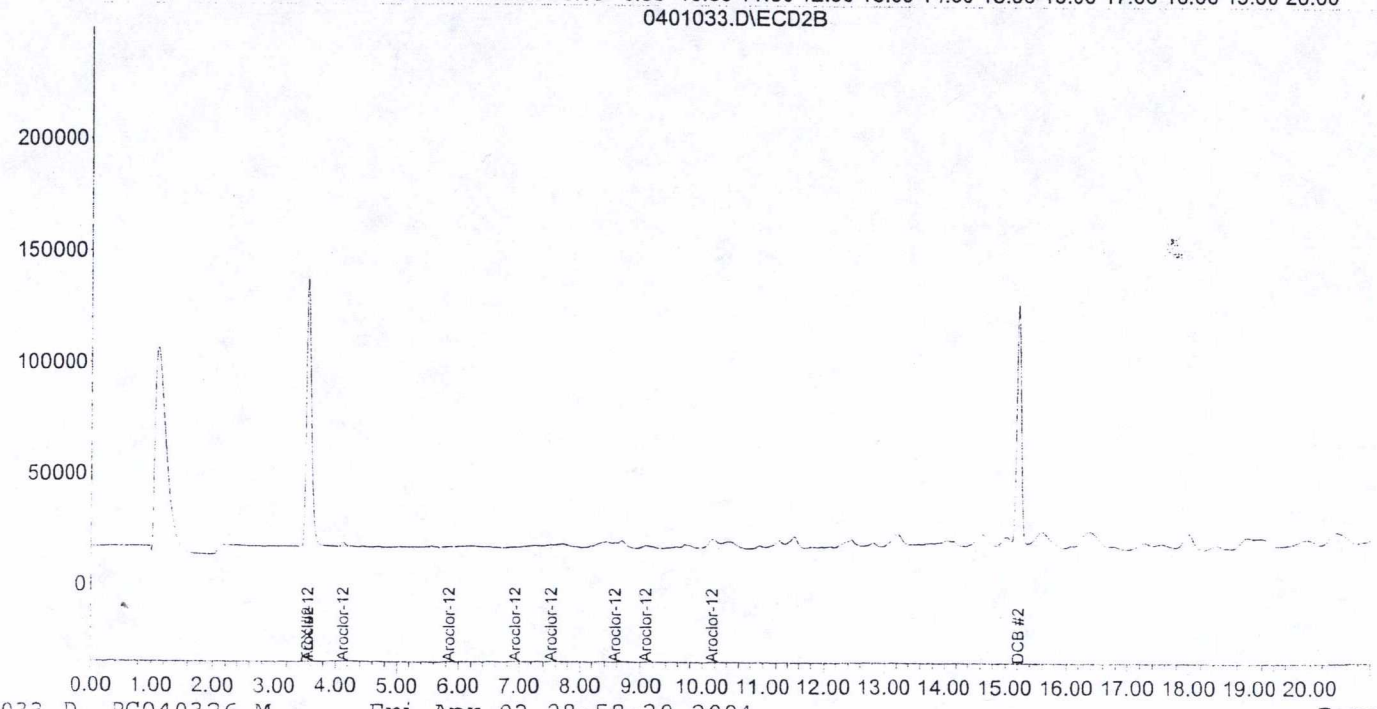
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401033.D\ECD1A.CH Vial: 33
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401033.D\ECD2B.CH
Acq On : 2 Apr 2004 1:28 Operator:
Sample : 04-007-11 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 1:49 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401034.D\ECD1A.CH Vial: 34
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401034.D\ECD2B.CH
Acq On : 2 Apr 2004 1:51 Operator:
Sample : 04-007-12 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 2:12 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	69598	146151	0.100	0.104
Spiked Amount 0.100			Recovery	=	100.00%	104.00%
7) S DCB	13.29	15.21	109760	138487	0.111	0.108
Spiked Amount 0.100			Recovery	=	111.00%	108.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
9) L2 Aroclor-1221 {3}	0.00	4.12	0	2594	N.D.	0.090 #
10) L2 Aroclor-1221 {4}	0.00	4.44	0	564	N.D.	0.011 #
Sum Aroclor-1221			0	3158	N.D.	0.100
Average Aroclor-1221					0.000	0.050
13) L3 Aroclor-1232 {2}	3.20	3.54	69598	146151	0.520	0.540
14) L3 Aroclor-1232 {3}	0.00	4.12	0	2594	N.D.	0.117 #
15) L3 Aroclor-1232 {4}	0.00	4.44	0	564	N.D.	0.012 #
Sum Aroclor-1232			69598	149309	0.520	0.670
Average Aroclor-1232					0.520	0.223
17) L4 Aroclor-1242	0.00	4.12	0	2594	N.D.	0.220 #
18) L4 Aroclor-1242 {2}	0.00	4.44f	0	564	N.D.	0.016 #
Sum Aroclor-1242			0	3158	N.D.	0.236
Average Aroclor-1242					0.000	0.118
24) L5 Aroclor-1248 {2}	6.46f	6.47f	256	501	0.004	0.007 #
25) L5 Aroclor-1248 {4}	6.94	0.00	55	0	0.002	N.D. #
Sum Aroclor-1248			311	501	0.006	0.007
Average Aroclor-1248					0.003	0.007
30) L6 Aroclor-1254 {4}	8.66f	8.76	269	1010	0.004	0.006 #
31) L6 Aroclor-1254 {5}	0.00	9.08	0	842	N.D.	0.006 #
Sum Aroclor-1254			269	1851	0.004	0.012
Average Aroclor-1254					0.004	0.006
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

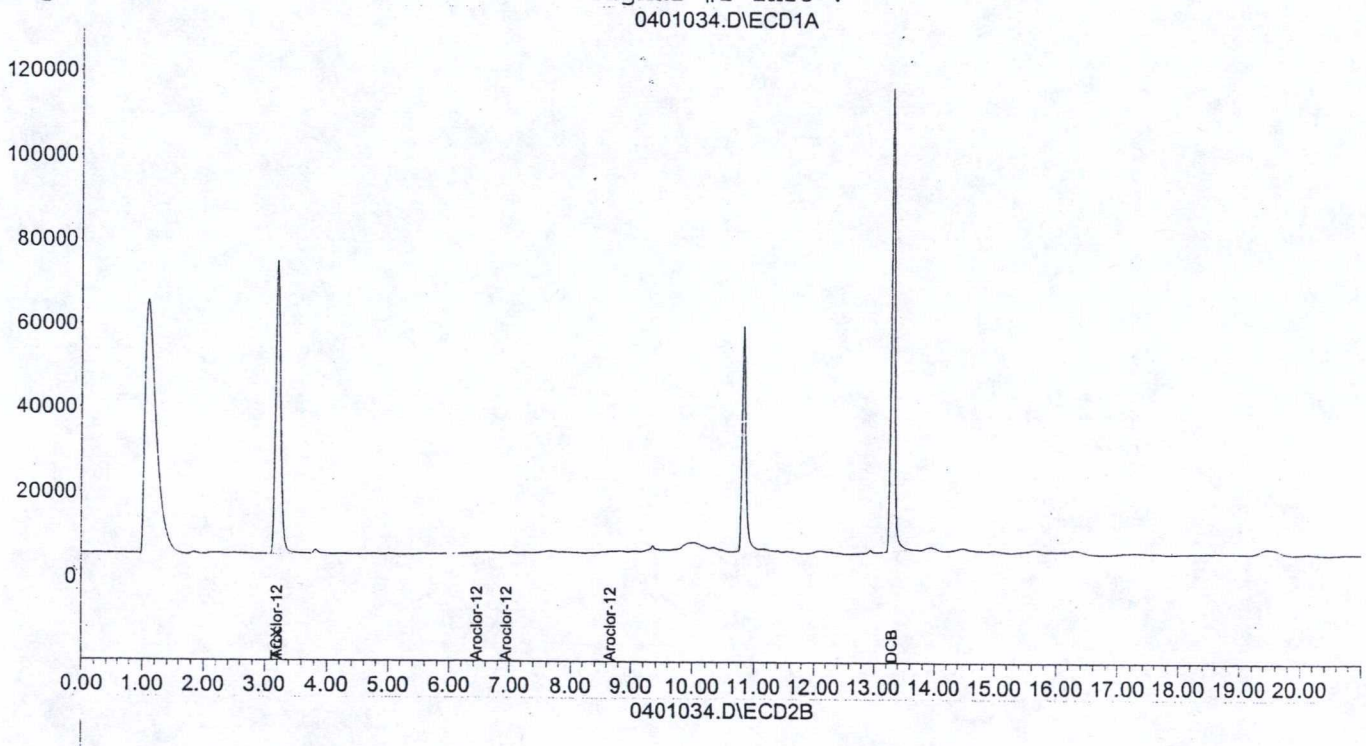
Quantitation Report

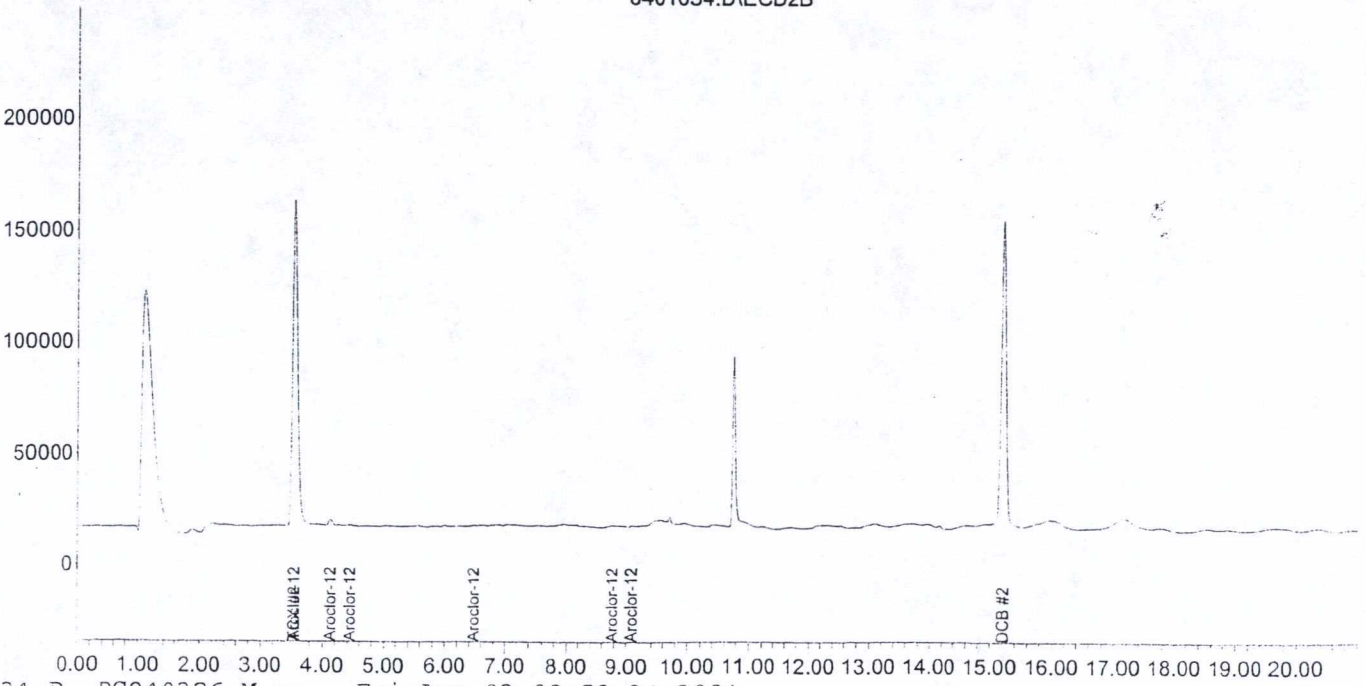
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401034.D\ECD1A.CH Vial: 34
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401034.D\ECD2B.CH
Acq On : 2 Apr 2004 1:51 Operator:
Sample : 04-007-12 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 2:12 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401035.D\ECD1A.CH Vial: 35
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401035.D\ECD2B.CH
Acq On : 2 Apr 2004 2:15 Operator:
Sample : 04-007-13 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 2:36 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	3.54	64559	138352	0.093	0.098
Spiked Amount 0.100			Recovery	=	93.00%	98.00%
7) S DCB	13.29	15.21	102805	131620	0.103	0.102
Spiked Amount 0.100			Recovery	=	103.00%	102.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
[illegible]) L2 Aroclor-1221 {2}	3.71	3.90	128	2258	0.011	0.299 #
[illegible]) L2 Aroclor-1221 {3}	0.00	4.12	0	4107	N.D.	0.142 #
10) L2 Aroclor-1221 {4}	0.00	4.44	0	2300	N.D.	0.044 #
Sum Aroclor-1221			128	8664	0.011	0.484
Average Aroclor-1221					0.011	0.161
13) L3 Aroclor-1232 {2}	3.19	3.54	64559	138352	0.483	0.511
[illegible]) L3 Aroclor-1232 {3}	3.71	4.12	128	4107	0.016	0.186 #
[illegible]) L3 Aroclor-1232 {4}	0.00	4.44	0	2300	N.D.	0.050 #
Sum Aroclor-1232			64688	144758	0.498	0.747
Average Aroclor-1232					0.249	0.249
[illegible]) L4 Aroclor-1242	0.00	4.12	0	4107	N.D.	0.348 #
18) L4 Aroclor-1242 {2}	0.00	4.44f	0	2300	N.D.	0.067 #
19) L4 Aroclor-1242 {3}	5.08	0.00	336	0	0.020	N.D. #
[illegible]) L4 Aroclor-1242 {5}	5.64	5.84	136	1100	0.004	0.008 #
Sum Aroclor-1242			472	7506	0.025	0.423
Average Aroclor-1242					0.012	0.141
[illegible]) L5 Aroclor-1248	0.00	5.84	0	1100	N.D.	0.012 #
[illegible]) L5 Aroclor-1248 {4}	6.93	7.53	147	1037	0.004	0.008 #
Sum Aroclor-1248			147	2137	0.004	0.020
Average Aroclor-1248					0.004	0.010
27) L6 Aroclor-1254	0.00	7.53	0	1037	N.D.	0.017 #
29) L6 Aroclor-1254 {3}	8.42f	0.00	250	0	0.005	N.D. #
[illegible]) L6 Aroclor-1254 {5}	0.00	9.08	0	539	N.D.	0.004 #
Sum Aroclor-1254			250	1575	0.005	0.020
Average Aroclor-1254					0.005	0.010
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

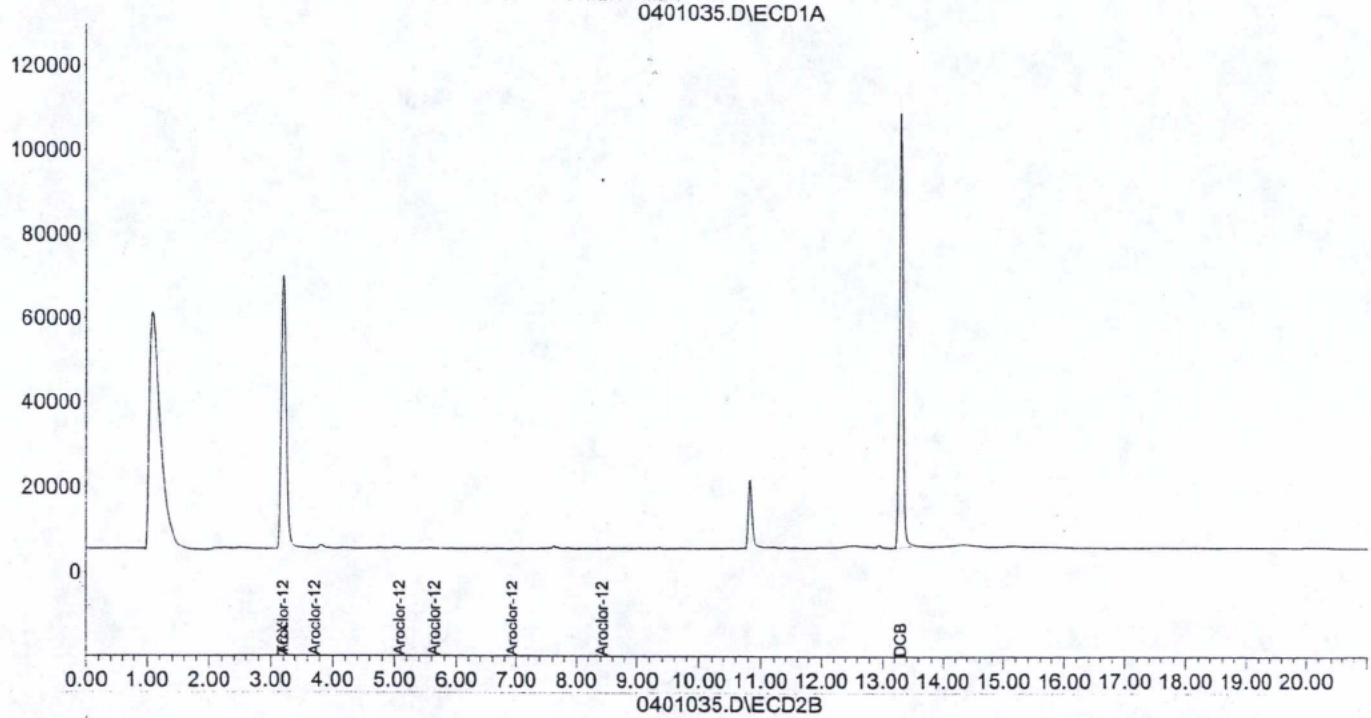
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401035.D\ECD1A.CH Vial: 35
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401035.D\ECD2B.CH
Acq On : 2 Apr 2004 2:15 Operator:
Sample : 04-007-13 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 2:36 2004 Quant Results File: PC040326.RES

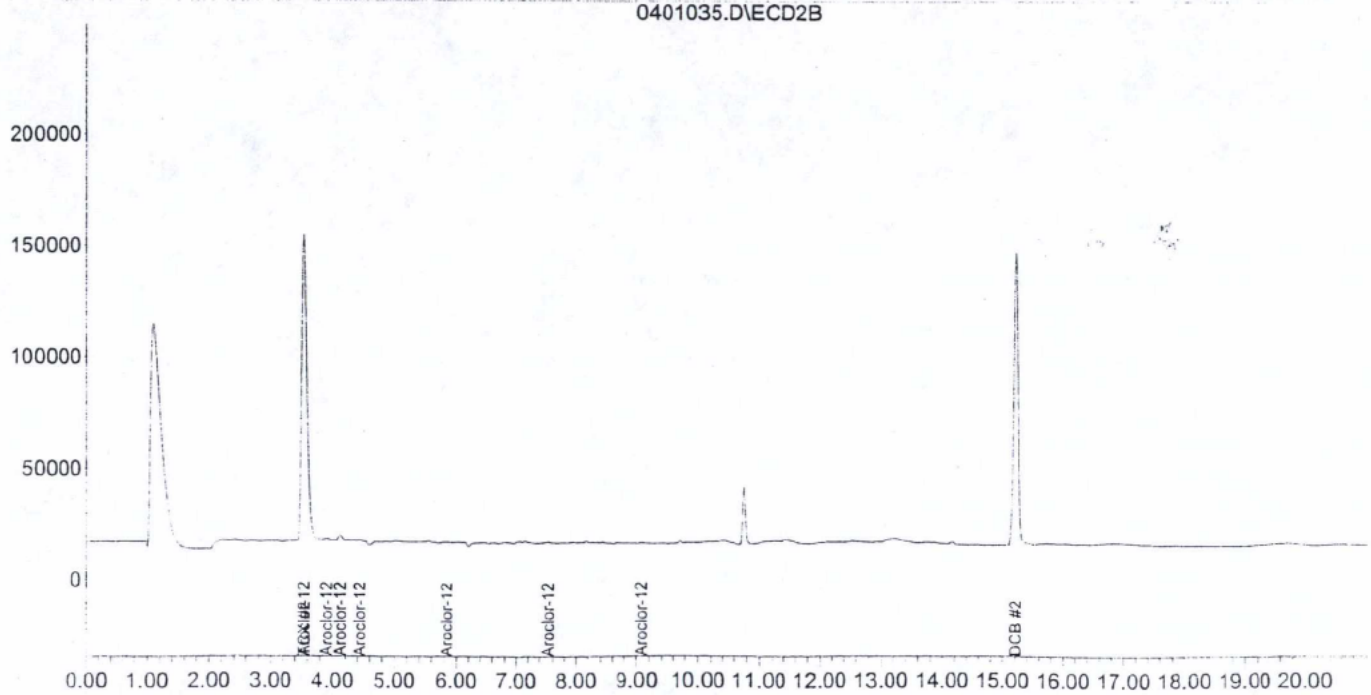
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401035.D\ECD1A



0401035.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401036.D\ECD1A.CH Vial: 36
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401036.D\ECD2B.CH
Acq On : 2 Apr 2004 2:39 Operator:
Sample : 04-007-14 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 3:00 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	3.54	55281	119818	0.079	0.084
Spiked Amount 0.100			Recovery	=	79.00%	84.00%
7) S DCB	13.30	15.21	88257	116482	0.088	0.090
Spiked Amount 0.100			Recovery	=	88.00%	90.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
8) L2 Aroclor-1221	0.00	3.05f	0	512	N.D.	0.054 #
9) L2 Aroclor-1221 {2}	0.00	3.90	0	1428	N.D.	0.189 #
9) L2 Aroclor-1221 {3}	0.00	4.12	0	2983	N.D.	0.103 #
10) L2 Aroclor-1221 {4}	0.00	4.44	0	1298	N.D.	0.025 #
Sum Aroclor-1221			0	6220	N.D.	0.370
Average Aroclor-1221					0.000	0.093
12) L3 Aroclor-1232	0.00	3.05f	0	512	N.D.	0.090 #
13) L3 Aroclor-1232 {2}	3.19	3.54	55281	119818	0.413	0.443
14) L3 Aroclor-1232 {3}	0.00	4.12	0	2983	N.D.	0.135 #
15) L3 Aroclor-1232 {4}	0.00	4.44	0	1298	N.D.	0.028 #
Sum Aroclor-1232			55281	124611	0.413	0.696
Average Aroclor-1232					0.413	0.174
17) L4 Aroclor-1242	0.00	4.12	0	2983	N.D.	0.253 #
18) L4 Aroclor-1242 {2}	0.00	4.44f	0	1298	N.D.	0.038 #
19) L4 Aroclor-1242 {3}	5.08	0.00	164	0	0.010	N.D. #
Sum Aroclor-1242			164	4281	0.010	0.291
Average Aroclor-1242					0.010	0.145
23) L5 Aroclor-1248 {2}	0.00	6.46	0	370	N.D.	0.005 #
Sum Aroclor-1248			0	370	N.D.	0.005
Average Aroclor-1248					0.000	0.005
31) L6 Aroclor-1254 {5}	0.00	9.08	0	1062	N.D.	0.008 #
Sum Aroclor-1254			0	1062	N.D.	0.008
Average Aroclor-1254					0.000	0.008
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

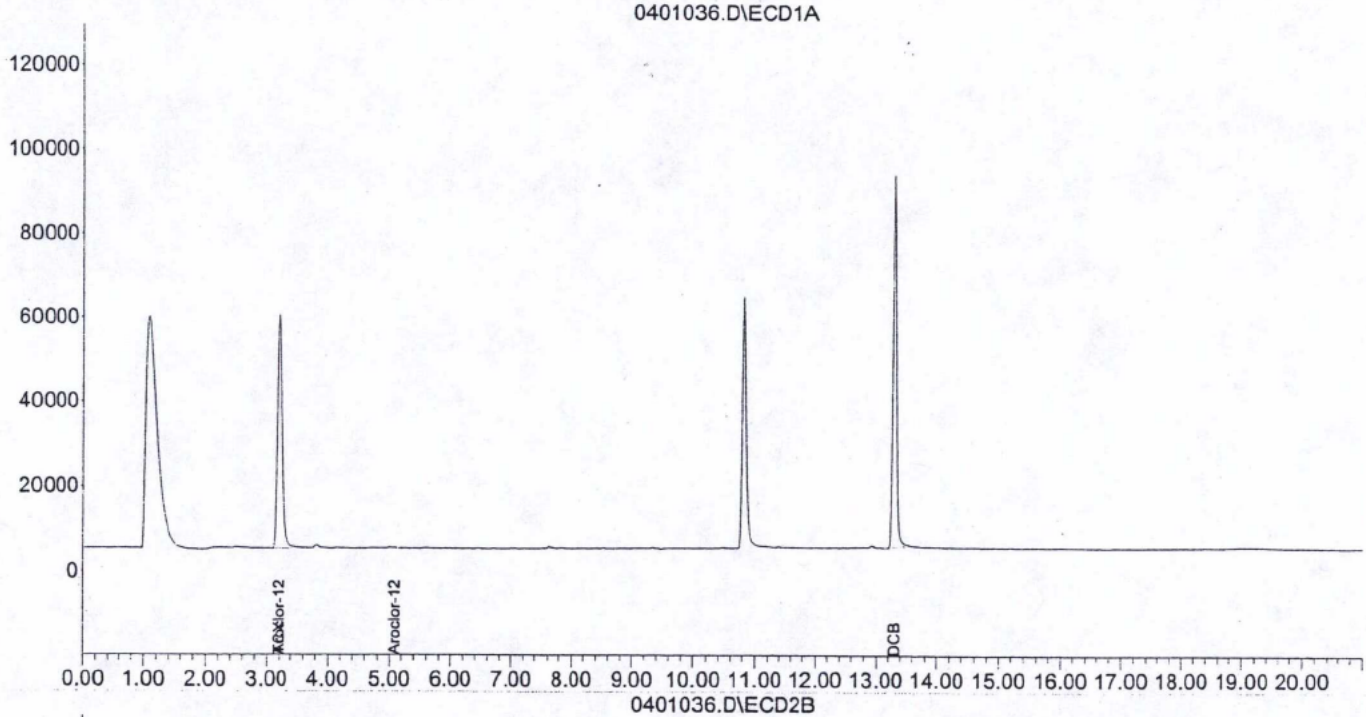
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401036.D\ECD1A.CH Vial: 36
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401036.D\ECD2B.CH
Acq On : 2 Apr 2004 2:39 Operator:
Sample : 04-007-14 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 3:00 2004 Quant Results File: PC040326.RES

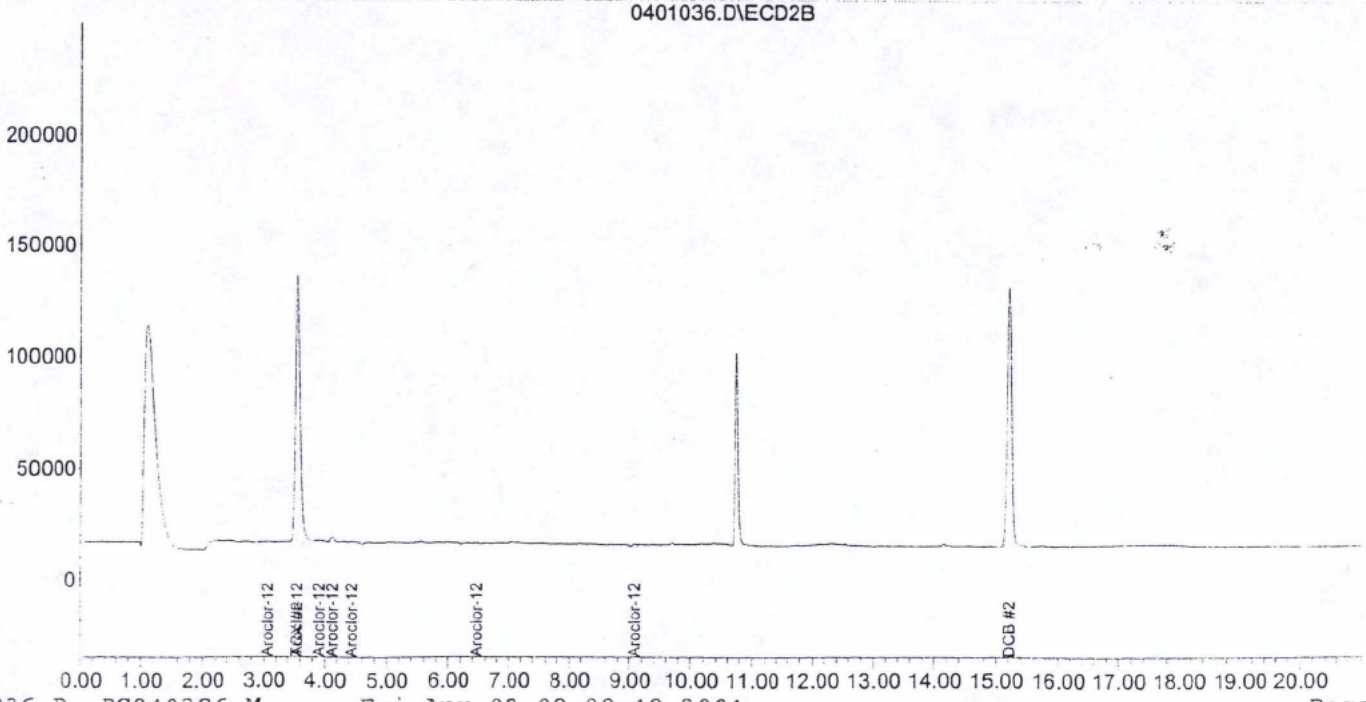
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401036.D\ECD1A



0401036.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401037.D\ECD1A.CH Vial: 37
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401037.D\ECD2B.CH
Acq On : 2 Apr 2004 3:02 Operator:
Sample : 04-007-15 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 3:23 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	3.54	63393	135019	0.091	0.095
Spiked Amount 0.100			Recovery	=	91.00%	95.00%
7) S DCB	13.29	15.21	99765	130849	0.100	0.101
Spiked Amount 0.100			Recovery	=	100.00%	101.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
8) L2 Aroclor-1221 {2}	0.00	3.91	0	2437	N.D.	0.322 #
9) L2 Aroclor-1221 {3}	0.00	4.12	0	4147	N.D.	0.143 #
10) L2 Aroclor-1221 {4}	4.89f	4.44	210	2370	0.031	0.045 #
Sum Aroclor-1221			210	8954	0.031	0.511
Average Aroclor-1221					0.031	0.170
13) L3 Aroclor-1232 {2}	3.19	3.54	63393	135019	0.474	0.499
14) L3 Aroclor-1232 {3}	0.00	4.12	0	4147	N.D.	0.188 #
15) L3 Aroclor-1232 {4}	0.00	4.44	0	2370	N.D.	0.052 #
Sum Aroclor-1232			63393	141536	0.474	0.738
Average Aroclor-1232					0.474	0.246
17) L4 Aroclor-1242	0.00	4.12	0	4147	N.D.	0.352 #
18) L4 Aroclor-1242 {2}	0.00	4.44f	0	2370	N.D.	0.069 #
21) L4 Aroclor-1242 {5}	5.64	0.00	142	0	0.005	N.D. #
Sum Aroclor-1242			142	6517	0.005	0.420
Average Aroclor-1242					0.005	0.210
25) L5 Aroclor-1248 {4}	6.93	0.00	95	0	0.003	N.D. #
Sum Aroclor-1248			95	0	0.003	N.D.
Average Aroclor-1248					0.003	0.000
31) L6 Aroclor-1254 {5}	0.00	9.09	0	845	N.D.	0.006 #
Sum Aroclor-1254			0	845	N.D.	0.006
Average Aroclor-1254					0.000	0.006
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

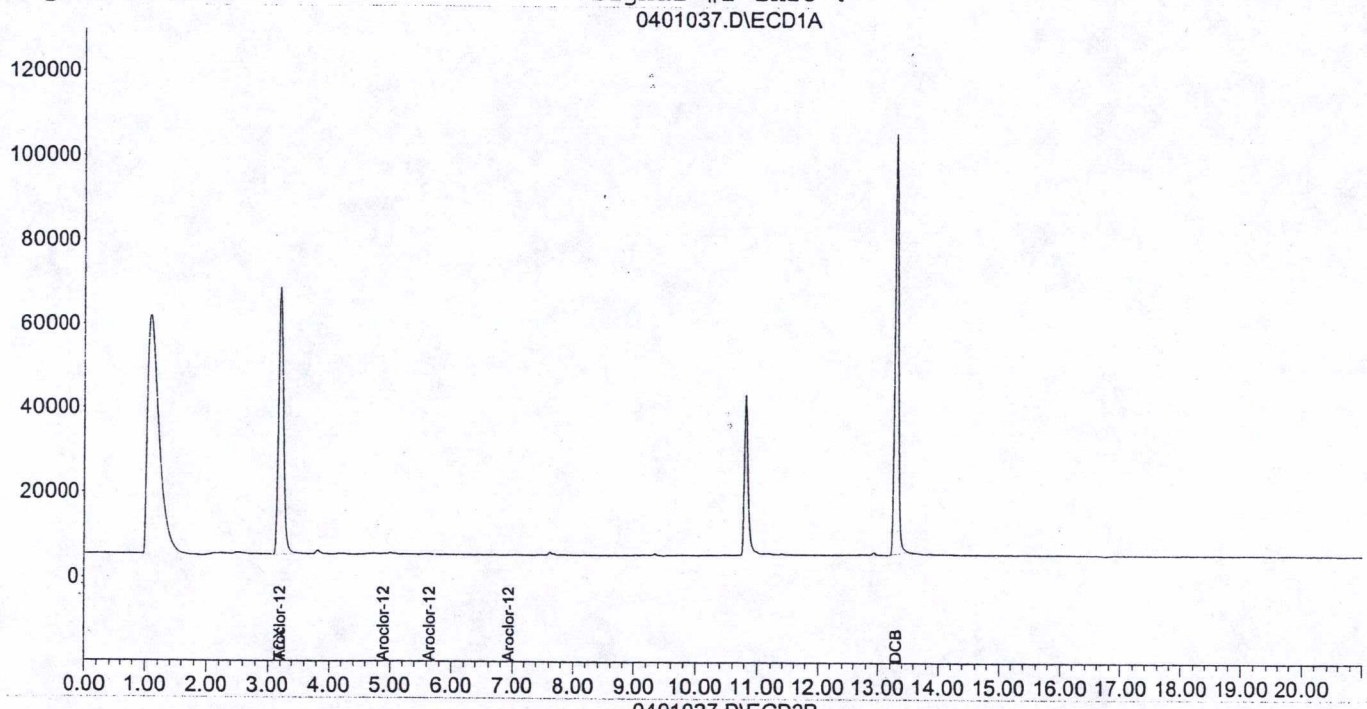
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

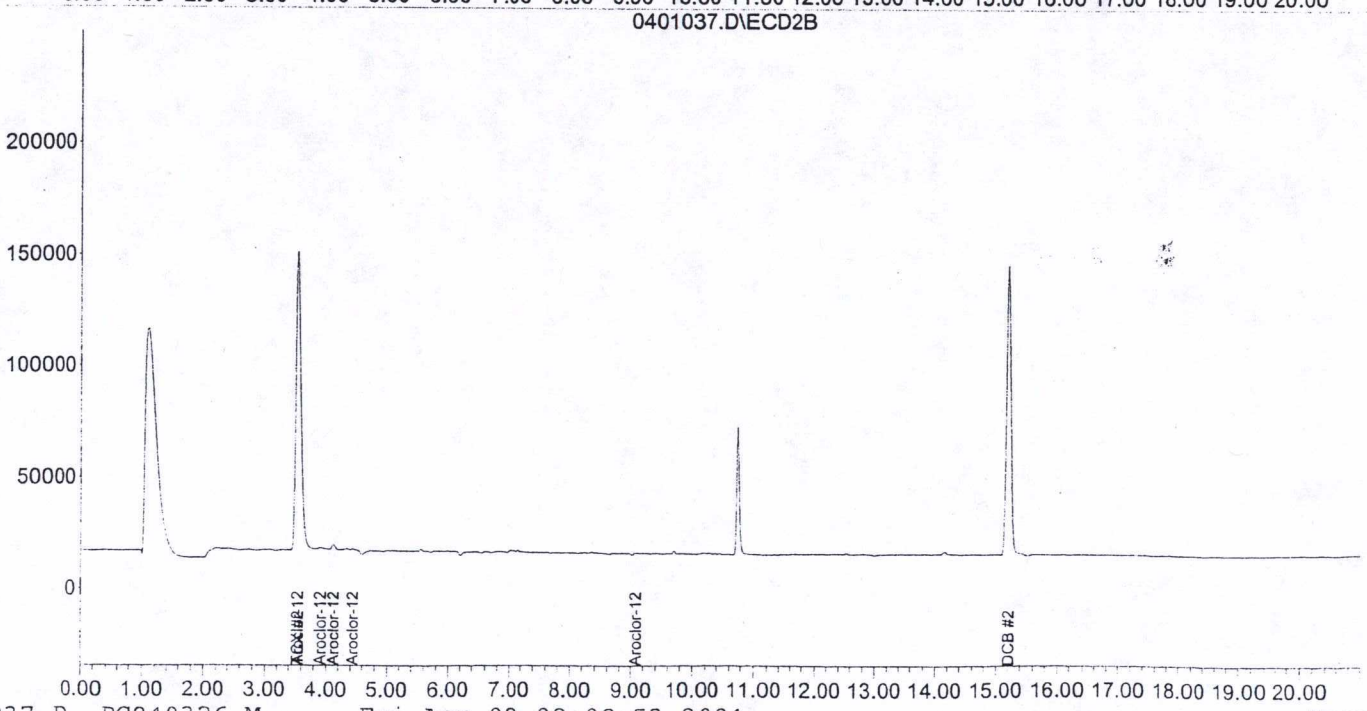
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401037.D\ECD1A.CH Vial: 37
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401037.D\ECD2B.CH
Acq On : 2 Apr 2004 3:02 Operator:
Sample : 04-007-15 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 3:23 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401019.D\ECD1A.CH Vial: 19
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401019.D\ECD2B.CH
Acq On : 1 Apr 2004 7:58 pm
Sample : MB0401P1
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 20:20 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	3.54	71373	149645	0.103	0.106
Spiked Amount 0.100			Recovery	=	103.00%	106.00%
7) S DCB	13.30	15.22	113962	152926	0.115	0.119
Spiked Amount 0.100			Recovery	=	115.00%	119.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
9) L2 Aroclor-1221 {3}	0.00	4.12	0	2952	N.D.	0.102 #
10) L2 Aroclor-1221 {4}	0.00	4.44f	0	606	N.D.	0.012 #
Sum Aroclor-1221			0	3558	N.D.	0.113
Average Aroclor-1221					0.000	0.057
13) L3 Aroclor-1232 {2}	3.19	3.54	71373	149645	0.533	0.553
14) L3 Aroclor-1232 {3}	0.00	4.12	0	2952	N.D.	0.134 #
15) L3 Aroclor-1232 {4}	0.00	4.44	0	606	N.D.	0.013 #
Sum Aroclor-1232			71373	153204	0.533	0.700
Average Aroclor-1232					0.533	0.233
18) L4 Aroclor-1242	0.00	4.12	0	2952	N.D.	0.251 #
19) L4 Aroclor-1242 {2}	0.00	4.44f	0	606	N.D.	0.018 #
Sum Aroclor-1242			0	3558	N.D.	0.268
Average Aroclor-1242					0.000	0.134
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

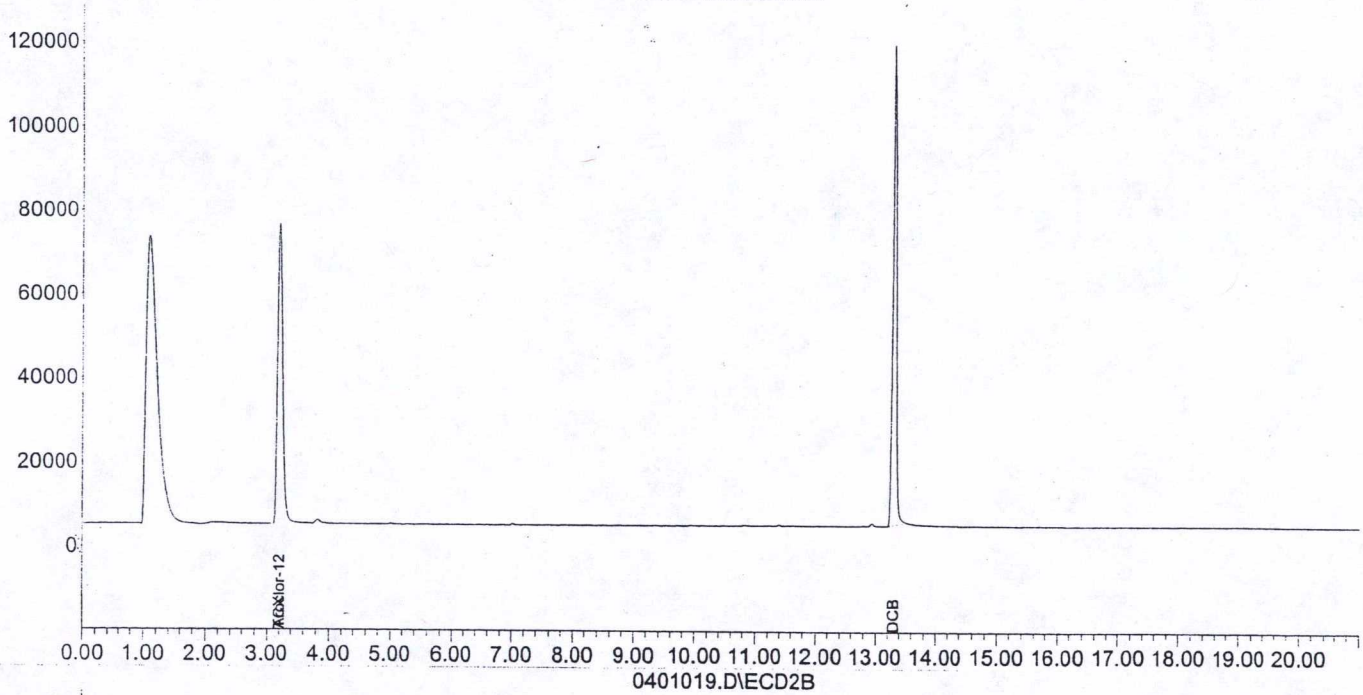
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401019.D\ECD1A.CH Vial: 19
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401019.D\ECD2B.CH
Acq On : 1 Apr 2004 7:58 pm Operator:
Sample : MB0401P1 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 20:20 2004 Quant Results File: PC040326.RES

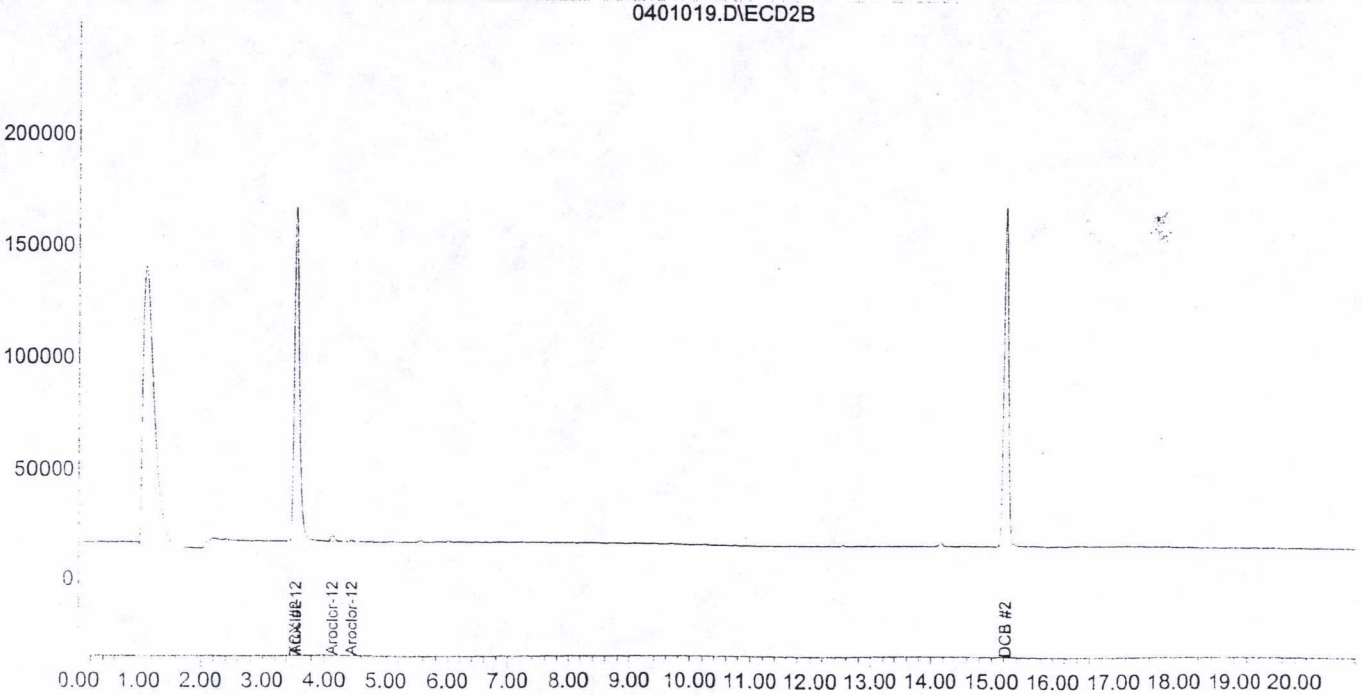
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401019.D\ECD1A



0401019.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401020.D\ECD1A.CH Vial: 20
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401020.D\ECD2B.CH
Acq On : 1 Apr 2004 8:22 pm Operator:
Sample : SB0401P1 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 20:43 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.54	70976	149539	0.102	0.106
Spiked Amount 0.100			Recovery	=	102.00%	106.00%
1) S DCB	13.30	15.22	114277	149113	0.115	0.116
Spiked Amount 0.100			Recovery	=	115.00%	116.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
8) L2 Aroclor-1221 {2}	3.72	0.00	174	0	0.015	N.D. #
9) L2 Aroclor-1221 {3}	4.06	4.12	268	2935	0.010	0.101 #
10) L2 Aroclor-1221 {4}	0.00	4.44	0	1088	N.D.	0.021 #
11) L2 Aroclor-1221 {5}	5.42	5.16	945	1339	0.139	0.071 #
Sum Aroclor-1221			1386	5362	0.164	0.193
Average Aroclor-1221					0.055	0.064
12) L3 Aroclor-1232 {2}	3.20	3.54	70976	149539	0.530	0.552
13) L3 Aroclor-1232 {3}	3.72	4.12	174	2935	0.022	0.133 #
14) L3 Aroclor-1232 {4}	4.06	4.44	268	1088	0.011	0.024 #
16) L3 Aroclor-1232 {5}	4.66	5.16	520	1339	0.027	0.031
Sum Aroclor-1232			71938	154901	0.590	0.740
Average Aroclor-1232					0.147	0.185
17) L4 Aroclor-1242	4.06	4.12	268	2935	0.016	0.249 #
18) L4 Aroclor-1242 {2}	4.66	4.44	520	1088	0.014	0.031 #
19) L4 Aroclor-1242 {3}	0.00	5.16	0	1339	N.D.	0.019 #
20) L4 Aroclor-1242 {4}	5.42	0.00	945	0	0.013	N.D. #
21) L4 Aroclor-1242 {5}	5.64	5.85	388	2721	0.013	0.021 #
Sum Aroclor-1242			2121	8083	0.056	0.320
Average Aroclor-1242					0.014	0.080
22) L5 Aroclor-1248	5.98f	5.85	860	2721	0.014	0.029 #
23) L5 Aroclor-1248 {2}	6.41	6.42	447	2354	0.008	0.031 #
24) L5 Aroclor-1248 {3}	6.57	6.94	292	1557	0.006	0.016 #
25) L5 Aroclor-1248 {4}	6.91	7.49	225	2034	0.007	0.016 #
26) L5 Aroclor-1248 {5}	7.08f	7.59	10439	1801	0.135	0.017 #
Sum Aroclor-1248			12263	10467	0.170	0.110
Average Aroclor-1248					0.034	0.022
27) L6 Aroclor-1254	7.40	7.49	13016	2034	0.181	0.033 #
28) L6 Aroclor-1254 {2}	8.18	7.88	26073	27472	0.249	0.216

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401020.D\ECD1A.CH Vial: 20
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401020.D\ECD2B.CH
Acq On : 1 Apr 2004 8:22 pm Operator:
Sample : SB0401P1 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 20:43 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
[illegible]) L6 Aroclor-1254 {3}	8.43f	8.56	39699	5146	0.751	0.055 #
[illegible]) L6 Aroclor-1254 {4}	8.64	8.79	2791	44099	0.038	0.267 #
31) L6 Aroclor-1254 {5}	8.83	9.09	49518	73508	0.875	0.525 #
Sum Aroclor-1254			131096	152259	2.094	1.095
[illegible]erage Aroclor-1254					0.419	0.219
32) L7 Aroclor-1260	8.43	8.79	39699	44099	0.530	0.539
[illegible]) L7 Aroclor-1260 {2}	8.83	9.09	49518	73508	0.524	0.545
[illegible]) L7 Aroclor-1260 {3}	10.03	9.33	40309	95575	0.541	0.536
[illegible]) L7 Aroclor-1260 {4}	10.53	10.16	88019	77598	0.544	0.546
36) L7 Aroclor-1260 {5}	11.14	11.07	52317	158345	0.547	0.544
Sum Aroclor-1260			269861	449125	2.686	2.709
[illegible]erage Aroclor-1260					0.537	0.542

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

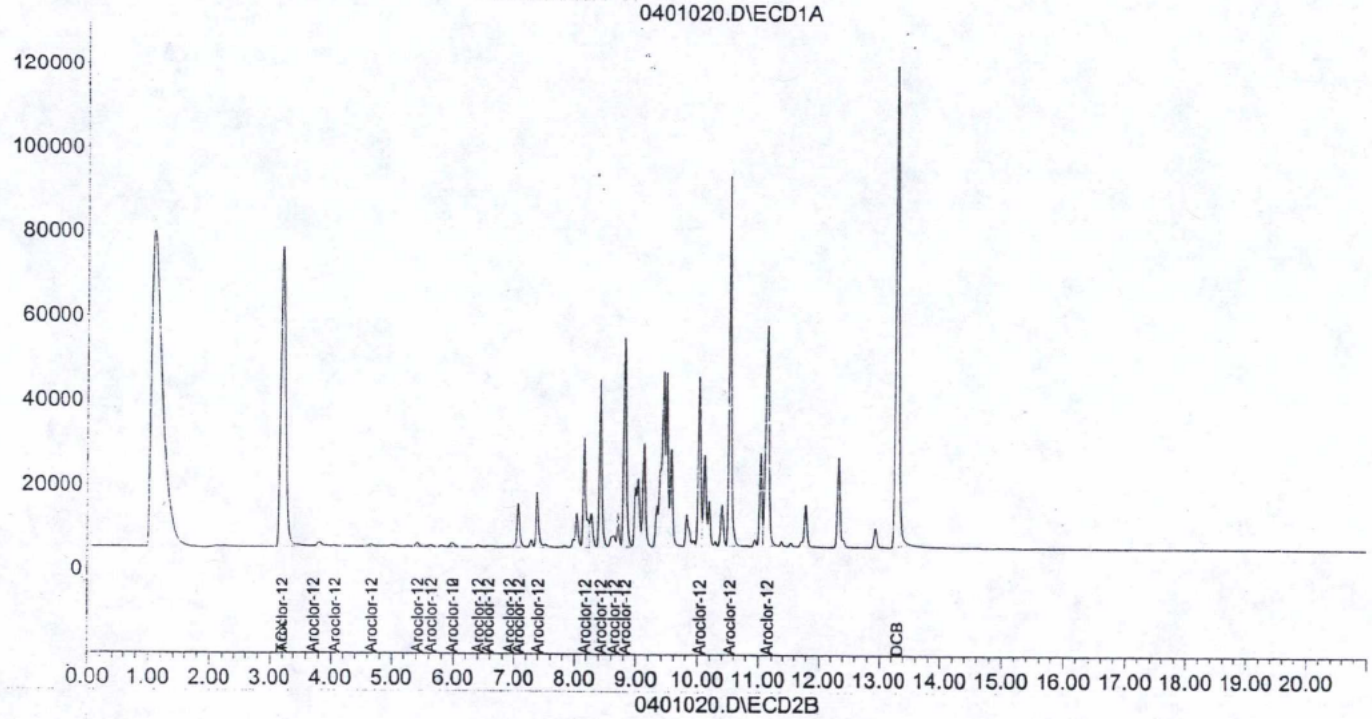
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401020.D\ECD1A.CH Vial: 20
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401020.D\ECD2B.CH
Acq On : 1 Apr 2004 8:22 pm Operator:
Sample : SB0401P1 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 20:43 2004 Quant Results File: PC040326.RES

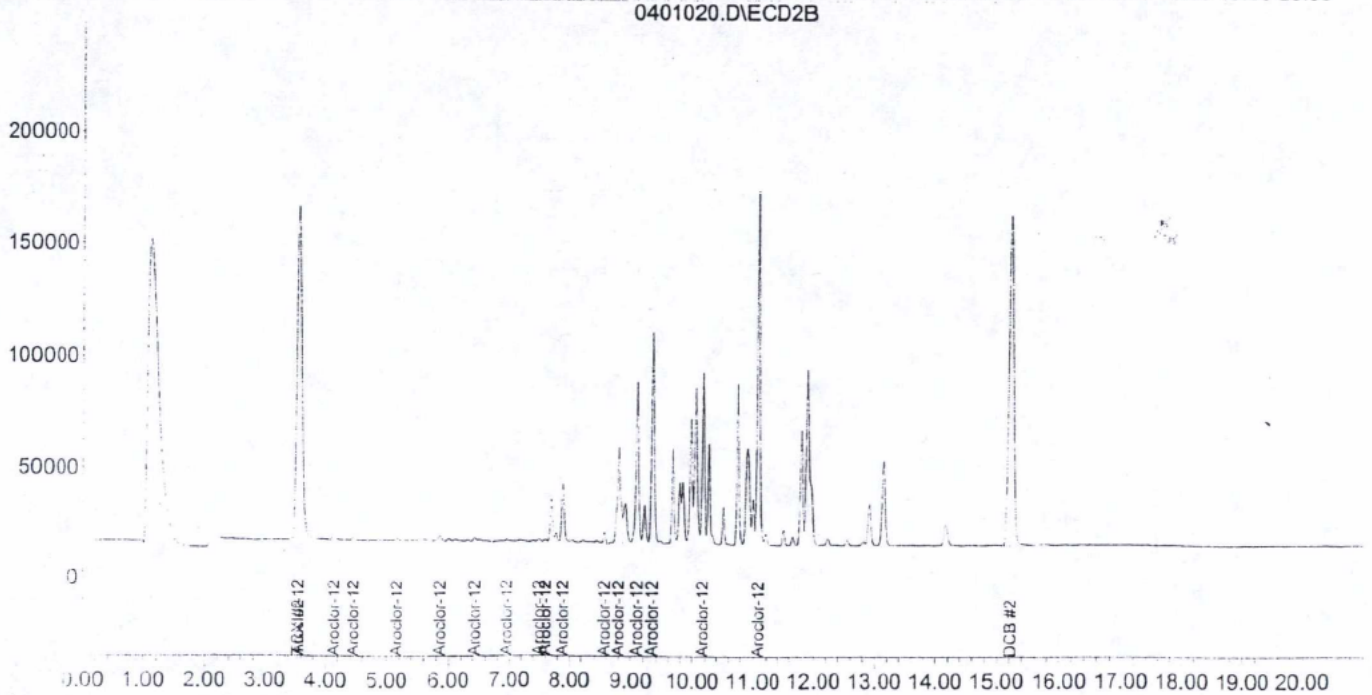
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401020.D\ECD1A



0401020.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401021.D\ECD1A.CH Vial: 21
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401021.D\ECD2B.CH
Acq On : 1 Apr 2004 8:45 pm Operator:
Sample : SB0401P1 DUP Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 21:06 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.20	3.55	70685	148981	0.102	0.106
Spiked Amount 0.100			Recovery	=	102.00%	106.00%
1) S DCB	13.30	15.22	114501	149773	0.116	0.117
Spiked Amount 0.100			Recovery	=	116.00%	117.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
1) L2 Aroclor-1221 {2}	3.71	0.00	165	0	0.015	N.D. #
1) L2 Aroclor-1221 {3}	4.06	4.13	267	2930	0.010	0.101 #
10) L2 Aroclor-1221 {4}	0.00	4.45	0	1061	N.D.	0.020 #
11) L2 Aroclor-1221 {5}	5.42	5.16	959	1250	0.141	0.066 #
Sum Aroclor-1221			1390	5242	0.165	0.187
Average Aroclor-1221					0.055	0.062
13) L3 Aroclor-1232 {2}	3.20	3.55	70685	148981	0.528	0.550
1) L3 Aroclor-1232 {3}	3.71	4.13	165	2930	0.020	0.133 #
1) L3 Aroclor-1232 {4}	4.06	4.45	267	1061	0.011	0.023 #
16) L3 Aroclor-1232 {5}	4.66	5.16	514	1250	0.026	0.029
Sum Aroclor-1232			71630	154223	0.586	0.735
Average Aroclor-1232					0.147	0.184
17) L4 Aroclor-1242	4.06	4.13	267	2930	0.016	0.249 #
1) L4 Aroclor-1242 {2}	4.66	4.45	514	1061	0.014	0.031 #
1) L4 Aroclor-1242 {3}	0.00	5.16	0	1250	N.D.	0.018 #
20) L4 Aroclor-1242 {4}	5.42	0.00	959	0	0.013	N.D. #
21) L4 Aroclor-1242 {5}	5.63	5.85	376	2218	0.012	0.017 #
Sum Aroclor-1242			2115	7460	0.055	0.314
Average Aroclor-1242					0.014	0.078
22) L5 Aroclor-1248	5.98f	5.85	853	2218	0.014	0.024 #
2) L5 Aroclor-1248 {2}	6.41	6.42	438	1684	0.008	0.022 #
2) L5 Aroclor-1248 {3}	6.56	6.94	290	817	0.006	0.008 #
25) L5 Aroclor-1248 {4}	6.91	7.49	240	1314	0.007	0.011 #
26) L5 Aroclor-1248 {5}	7.08f	7.50	10358	1058	0.134	0.010 #
Sum Aroclor-1248			12179	7091	0.170	0.075
Average Aroclor-1248					0.034	0.015
2) L6 Aroclor-1254	7.40	7.49	12914	1314	0.180	0.021 #
2) L6 Aroclor-1254 {2}	8.18	7.88	25820	26660	0.246	0.209

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401021.D\ECD1A.CH Vial: 21
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401021.D\ECD2B.CH
Acq On : 1 Apr 2004 8:4[illegible] pm
Sample : SB0401P1 DUP
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 1 21:06 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
[illegible]) L6 Aroclor-1254 {3}	8.43f	8.56	39436	4675	0.746	0.050 #
[illegible]) L6 Aroclor-1254 {4}	8.64	8.79	2806	43251	0.038	0.261 #
31) L6 Aroclor-1254 {5}	8.83	9.0[illegible]	49176	73178	0.869	0.523 #
Sum Aroclor-1254			130152	149078	2.079	1.064
Average Aroclor-1254					0.416	0.213
32) L7 Aroclor-1260	8.43	8.79	39436	43251	0.527	0.528
[illegible]) L7 Aroclor-1260 {2}	8.83	9.09	49176	73178	0.520	0.542
[illegible]) L7 Aroclor-1260 {3}	10.03	9.33	40304	95476	0.541	0.535
35) L7 Aroclor-1260 {4}	10.53	10.16	87392	77892	0.540	0.548
36) L7 Aroclor-1260 {5}	11.13	11.07	51842	156908	0.542	0.539
Sum Aroclor-1260			268150	446706	2.670	2.692
Average Aroclor-1260					0.534	0.538

(f)=RT Delta > 1/2 Window (#)=Amounts di[illegible]er by > 25% (m)=manual int.

Quantitation Report

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401021.D\ECD1A.CH Vial: 21
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401021.D\ECD2B.CH
Acq On : 1 Apr 2004 8:45 pm
Sample : SB0401P1 DUP
Misc :

Operator:
Inst : George #1
Multiplr: 1.00
Sample Amount: 0.00

IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

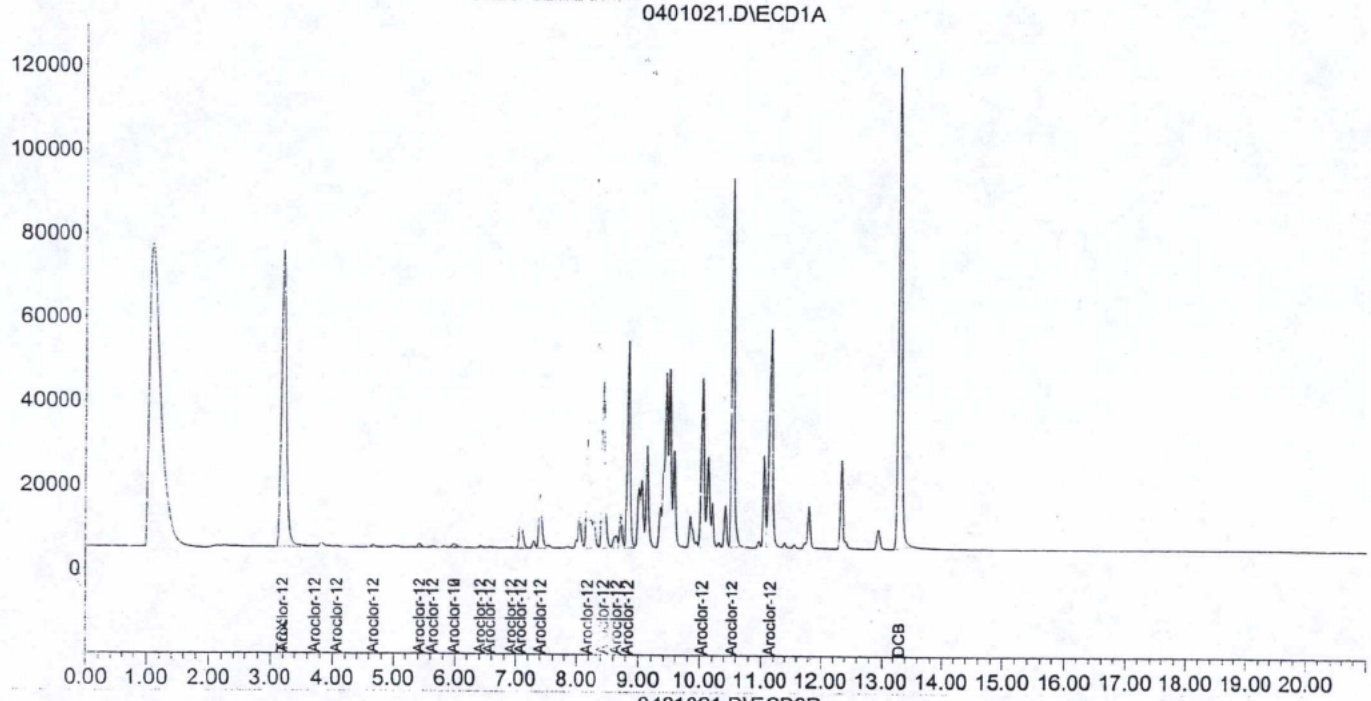
Quant Time: Apr 1 21:06 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

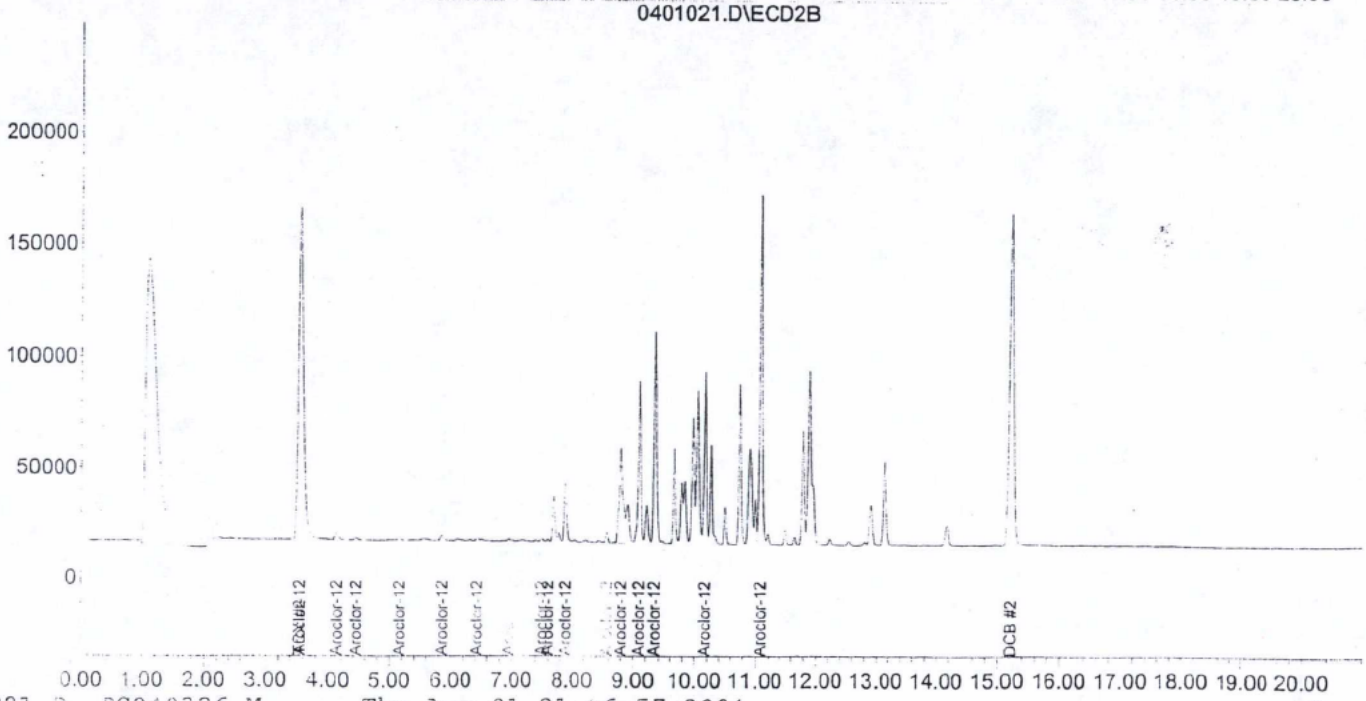
Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

0401021.D\ECD1A



0401021.D\ECD2B



Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401057.D\ECD1A.CH Vial: 57
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401057.D\ECD2B.CH
Acq On : 2 Apr 2004 10:53 am Operator:
Sample : 04-007-09 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 11:14 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
37) S DCB	13.33	15.24	79584	97906	0.079	0.074
Spiked Amount 0.100			Recovery	=	79.00%	74.00%
Target Compounds						
6) L1 Aroclor-1016 {5}	6.38f	6.47f	558	1981	N.D.	0.005 #
Sum Aroclor-1016			0	1981	N.D.	0.005
Average Aroclor-1016					0.000	0.005
7) L2 Aroclor-1221	0.00	3.03	0	1218	N.D.	0.127 #
Sum Aroclor-1221			0	1218	N.D.	0.127
Average Aroclor-1221					0.000	0.127
12) L3 Aroclor-1232	0.00	3.03	0	1218	N.D.	0.215 #
Sum Aroclor-1232			0	1218	N.D.	0.215
Average Aroclor-1232					0.000	0.215
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L5 Aroclor-1248 {2}	0.00	6.47f	0	1981	N.D.	0.026 #
24) L5 Aroclor-1248 {3}	6.60	0.00	621	0	0.013	N.D. #
2[illegible]) L5 Aroclor-1248 {5}	0.00	7.57f	0	1839	N.D.	0.017 #
Sum Aroclor-1248			621	3820	0.013	0.044
Average Aroclor-1248					0.013	0.022
2[illegible]) L6 Aroclor-1254	7.40	0.00	458	0	0.006	N.D. #
2[illegible]) L6 Aroclor-1254 {3}	8.51f	8.56f	2275	1398	0.043	0.015 #
Sum Aroclor-1254			2733	1398	0.049	0.015
Average Aroclor-1254					0.025	0.015
3[illegible]) L7 Aroclor-1260 {2}	0.00	9.15f	0	4460	N.D.	0.002 #
35) L7 Aroclor-1260 {4}	10.57f	10.20f	4157	4279	0.019	0.008 #
3[illegible]) L7 Aroclor-1260 {5}	0.00	11.10f	0	8279	N.D.	0.009 #
Sum Aroclor-1260			4157	17019	0.019	0.019
Average Aroclor-1260					0.019	0.006

LDL

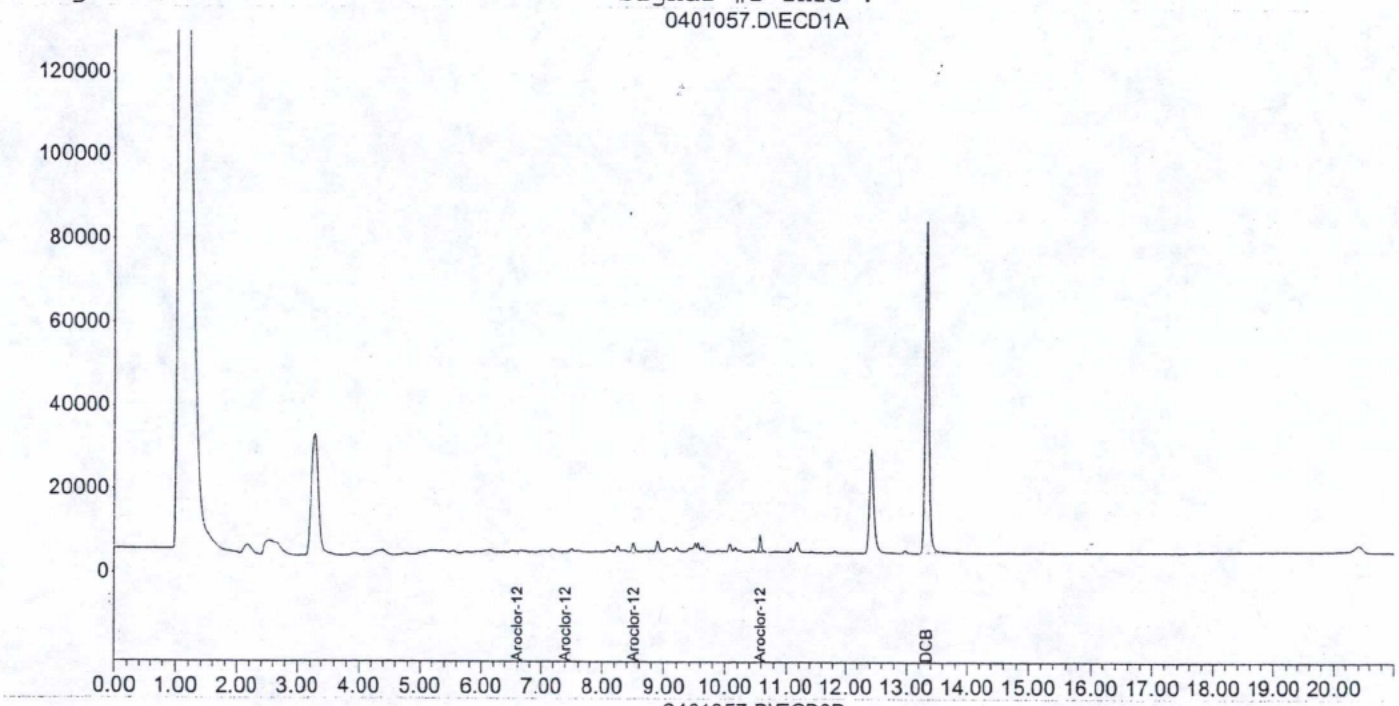
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

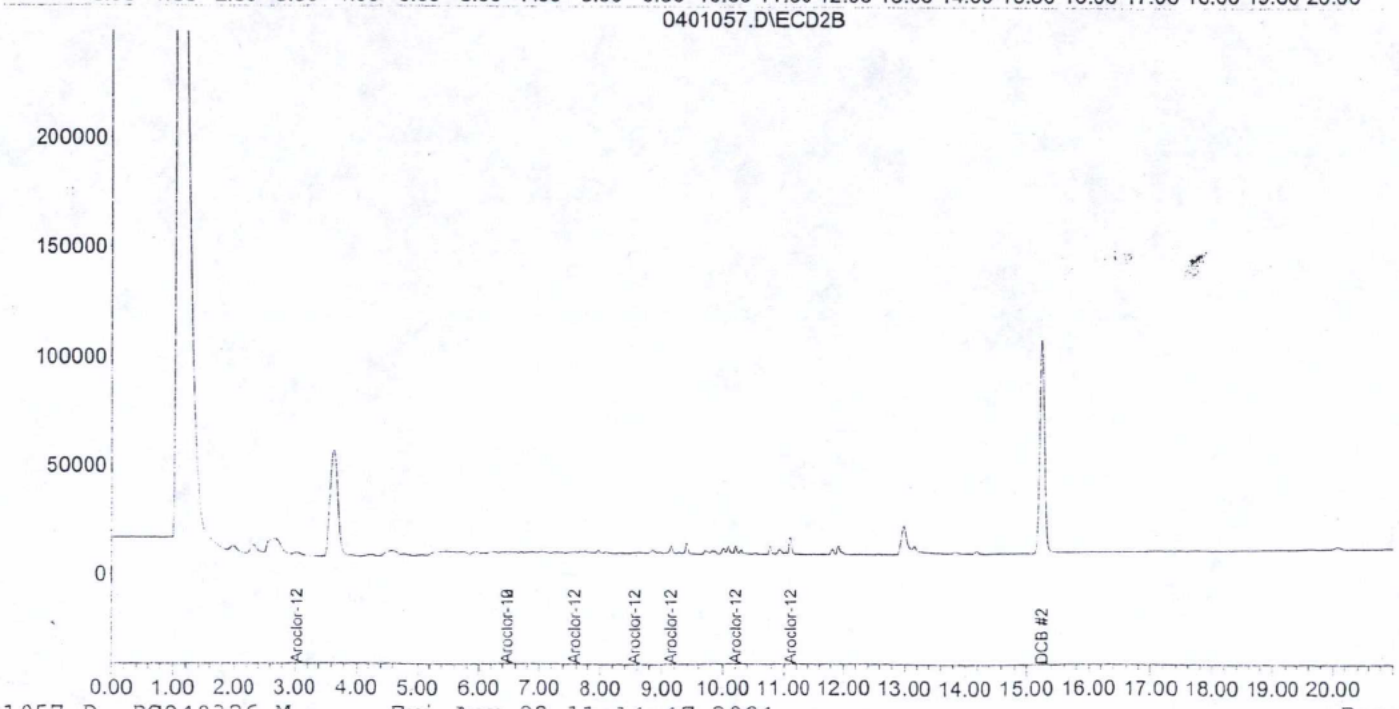
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040401\0401057.D\ECD1A.CH Vial: 57
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040401\0401057.D\ECD2B.CH
Acq On : 2 Apr 2004 10:53 am Operator:
Sample : 04-007-09 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 11:14 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Signal #1 : X:\PEST\GEOR[illegible]E [illegible]ATA\G040401\0401040.D\ECD1A.CH Vial: 40
Signal #2 : X:\PEST\GEORGE [illegible]ATA\G040401\0401040.D\ECD2B.CH
Acq On : 2 Apr 2004 4:12 Operator:
Sample : MB040101 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 4:34 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM [illegible] HODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 3 [illegible]7:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	[illegible]	68805	145154	0.099	0.103
Spiked Amount 0.100			Recovery	=	99.00%	103.00%
[illegible]) S DCB	13.29	15.21	111502	144654	0.112	0.113
Spiked Amount 0.100			Recovery	=	112.00%	113.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
[illegible]erage Aroclor-1016					0.000	0.000
[illegible]) L2 Aroclor-1221 {3}	0.00	[illegible]	0	2754	N.D.	0.095 #
[illegible]) L2 Aroclor-1221 {4}	0.00	[illegible]f	0	528	N.D.	0.010 #
Sum Aroclor-1221			0	3282	N.D.	0.105
Average Aroclor-1221					0.000	0.053
[illegible]) L3 Aroclor-1232 {2}	3.19	3.54	68805	145154	0.514	0.536
14) L3 Aroclor-1232 {3}	0.00	4.12	0	2754	N.D.	0.125 #
15) L3 Aroclor-1232 {4}	0.00	4.44	0	528	N.D.	0.012 #
Sum Aroclor-1232			68805	148436	0.514	0.672
[illegible]erage Aroclor-1232					0.514	0.224
17) L4 Aroclor-1242	0.00	[illegible]	0	2754	N.D.	0.234 #
[illegible]) L4 Aroclor-1242 {2}	0.00	[illegible]f	0	528	N.D.	0.015 #
Sum Aroclor-1242			0	3282	N.D.	0.249
Average Aroclor-1242					0.000	0.124
[illegible]) L5 Aroclor-1248 {2}	6.46f	[illegible]	131	0	0.002	N.D. #
Sum Aroclor-1248			131	0	0.002	N.D.
Average Aroclor-1248					0.002	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
[illegible]erage Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=A[illegible] ts differ by > 25% (m)=manual int.

Quantitation Report

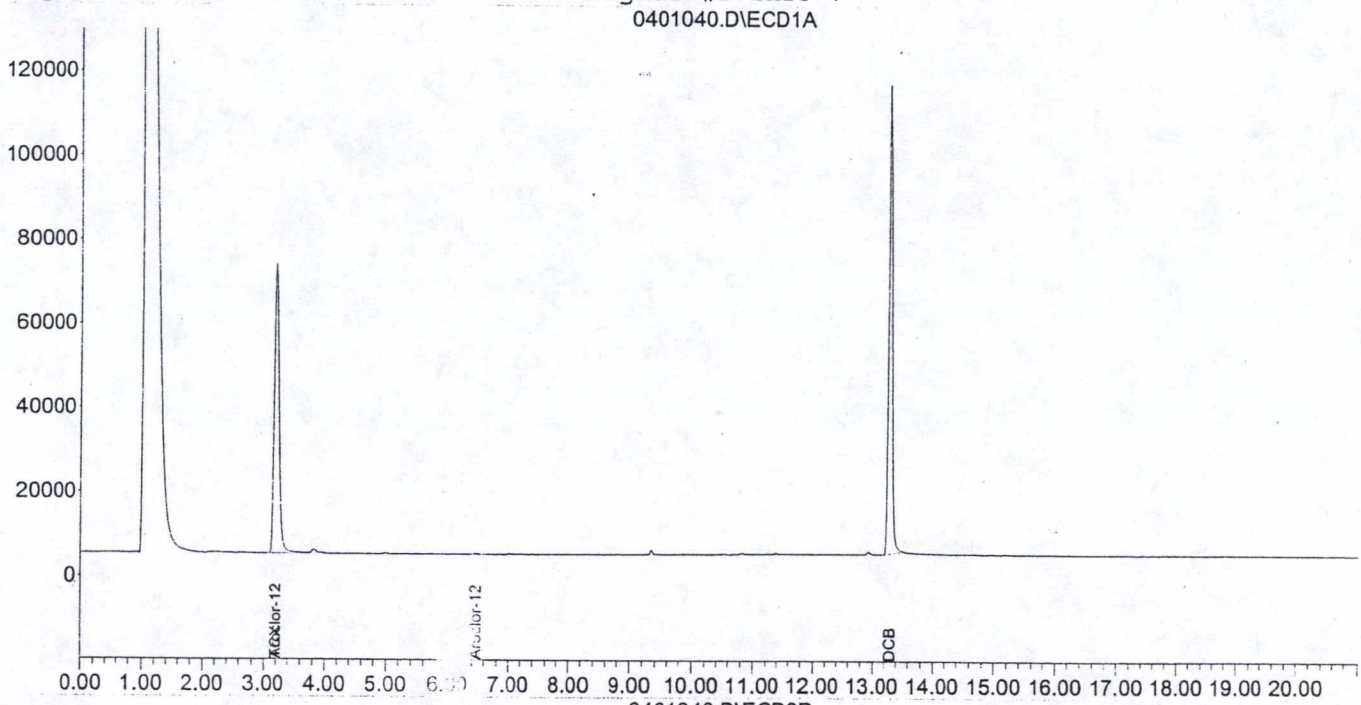
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401040.D\ECD1A.CH Vial: 40
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401040.D\ECD2B.CH
Acq On : 2 Apr 2004 4:12 Operator:
Sample : MB040101 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 4:34 2004 Quant Results File: PC040326.RES

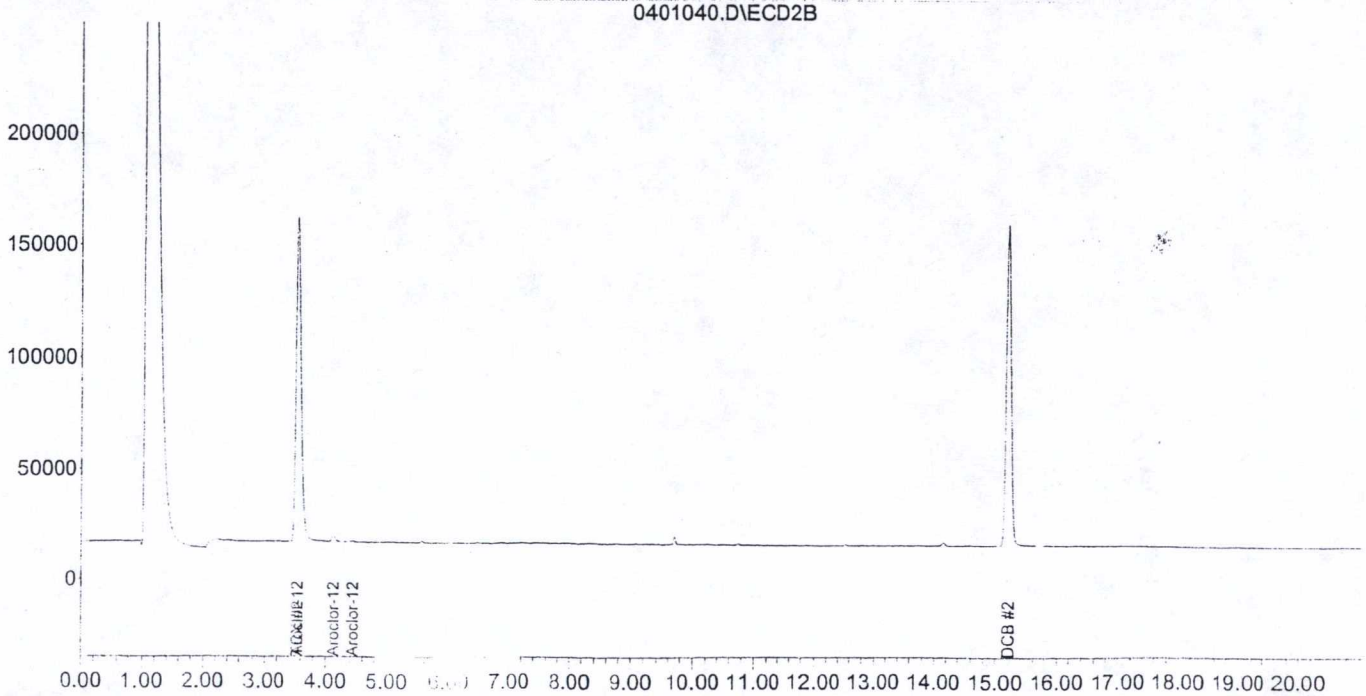
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401040.D\ECD1A



0401040.D\ECD2B



Quantitation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401041.D\ECD1A.CH Vial: 41
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401041.D\ECD2B.CH
Acq On : 2 Apr 2004 4:16 Operator:
Sample : SB040101 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 4:57 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
1) S TCX	3.19	3.24	68424	144062	0.098	0.102
Spiked Amount 0.100			Recovery	=	98.00%	102.00%
1) S DCB	13.29	15.21	110711	143620	0.112	0.112
Spiked Amount 0.100			Recovery	=	112.00%	112.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
9) L2 Aroclor-1221 {2}	3.71	0.00	161	0	0.014	N.D. #
10) L2 Aroclor-1221 {3}	4.06	4.12	286	2789	0.010	0.096 #
10) L2 Aroclor-1221 {4}	0.00	4.44	0	1079	N.D.	0.021 #
11) L2 Aroclor-1221 {5}	5.42	5.15	1049	1360	0.154	0.072 #
Sum Aroclor-1221			1496	5228	0.179	0.189
Average Aroclor-1221					0.060	0.063
13) L3 Aroclor-1232 {2}	3.19	3.24	68424	144062	0.511	0.532
14) L3 Aroclor-1232 {3}	3.71	4.12	161	2789	0.020	0.126 #
15) L3 Aroclor-1232 {4}	4.06	4.44	286	1079	0.012	0.024 #
16) L3 Aroclor-1232 {5}	4.66	5.15	539	1360	0.027	0.031
Sum Aroclor-1232			69410	149290	0.571	0.713
Average Aroclor-1232					0.143	0.178
17) L4 Aroclor-1242	4.06	4.12	286	2789	0.017	0.237 #
18) L4 Aroclor-1242 {2}	4.66	4.44	539	1079	0.015	0.031 #
19) L4 Aroclor-1242 {3}	5.05f	5.15	232	1360	0.014	0.019 #
20) L4 Aroclor-1242 {4}	5.42	0.00	1049	0	0.014	N.D. #
21) L4 Aroclor-1242 {5}	5.63	5.84	413	2364	0.013	0.018 #
Sum Aroclor-1242			2519	7592	0.073	0.305
Average Aroclor-1242					0.015	0.076
22) L5 Aroclor-1248	5.98f	6.[illegible]	934	2364	0.016	0.026 #
23) L5 Aroclor-1248 {2}	6.41	6.[illegible]	474	1850	0.008	0.024 #
24) L5 Aroclor-1248 {3}	6.56	6.[illegible]	335	884	0.007	0.009 #
25) L5 Aroclor-1248 {4}	6.91	7.[illegible]	228	1483	0.007	0.012 #
26) L5 Aroclor-1248 {5}	7.09f	7.[illegible]	1159	1141	0.147	0.011 #
Sum Aroclor-1248			1130	7723	0.185	0.082
Average Aroclor-1248					0.037	0.016
27) L6 Aroclor-1254	7.40	7.[illegible]	1037	1483	0.196	0.024 #
28) L6 Aroclor-1254 {2}	8.17	8.[illegible]	28325	28746	0.270	0.226

(f)=RT Delta > 1/2 Window (#)=[illegible] ts differ by > 25% (m)=manual int.

Qu tation Report (Not Reviewed)

Signal #1 : X:\PEST\GEORGE\D A\G040401\0401041.D\ECD1A.CH Vial: 41
Signal #2 : X:\PEST\GEORGE\D A\G040401\0401041.D\ECD2B.CH
Acq On : 2 Apr 2004 4: Operator:
Sample : SB040101 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 4:57 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1 HODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 17:58 2004
Response via : Initial Calib tion
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
1)	L6 Aroclor-1254 {3}	8.43f	8.46	42800	4991	0.809	0.053 #
1)	L6 Aroclor-1254 {4}	8.64	8.70	3072	46862	0.042	0.283 #
31)	L6 Aroclor-1254 {5}	8.83	8.[illegible]	54073	78166	0.955	0.558 #
	Sum Aroclor-1254			142307	160247	2.272	1.144
	Average Aroclor-1254					0.454	0.229
32)	L7 Aroclor-1260	8.43	8.[illegible]	42800	46862	0.573	0.575
3[illegible])	L7 Aroclor-1260 {2}	8.83	8.[illegible]	54073	78166	0.574	0.581
1)	L7 Aroclor-1260 {3}	10.03	9.[illegible]	44350	102788	0.596	0.578
35)	L7 Aroclor-1260 {4}	10.53	10.[illegible]	95455	82864	0.590	0.584
36)	L7 Aroclor-1260 {5}	11.13	11.[illegible]	57588	168766	0.603	0.581
	Sum Aroclor-1260			2[illegible]4366	479446	2.936	2.899
	Average Aroclor-1260					0.587	0.580

(f)=RT Delta > 1/2 Window (#)=A[illegible] W[illegible]er by > 25% (m)=manual int.

Quantitation Report

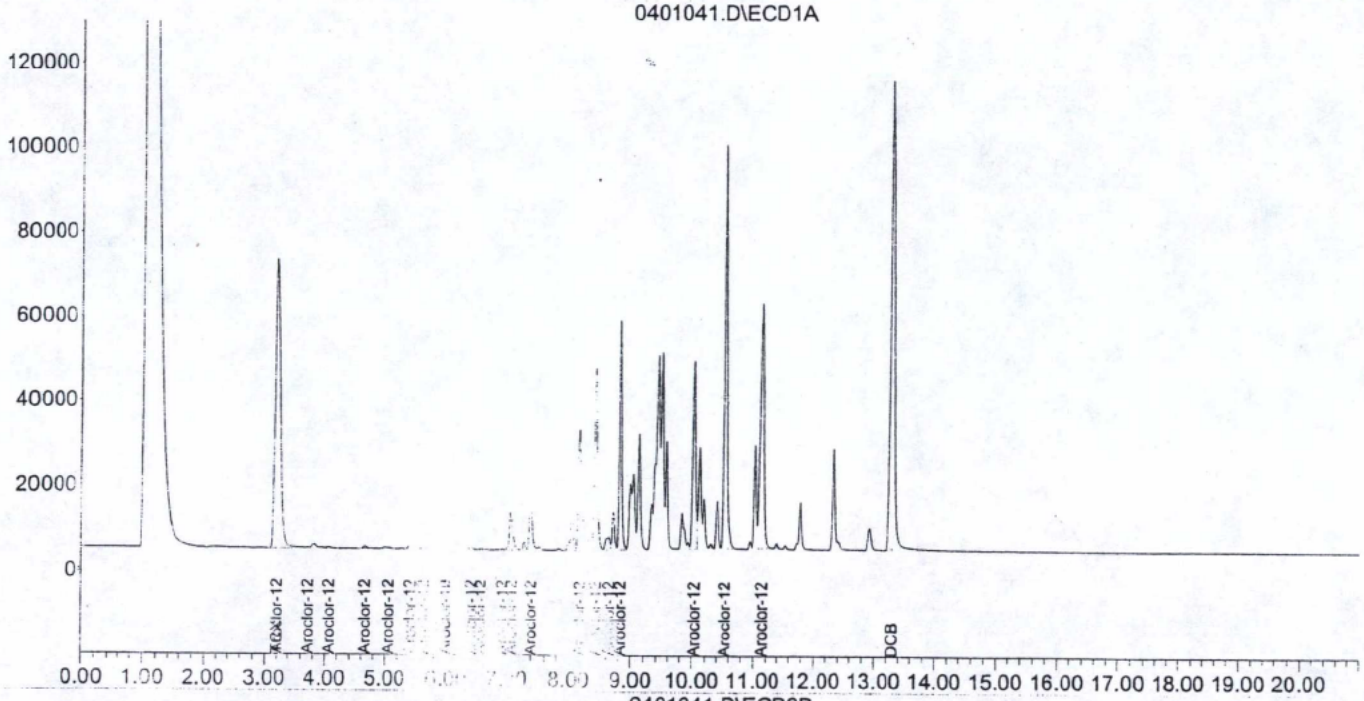
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401041.D\ECD1A.CH Vial: 41
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401041.D\ECD2B.CH
Acq On : 2 Apr 2004 4:[illegible] Operator:
Sample : SB040101 Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1. IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 4:57 2004 Quant Results File: PC040326.RES

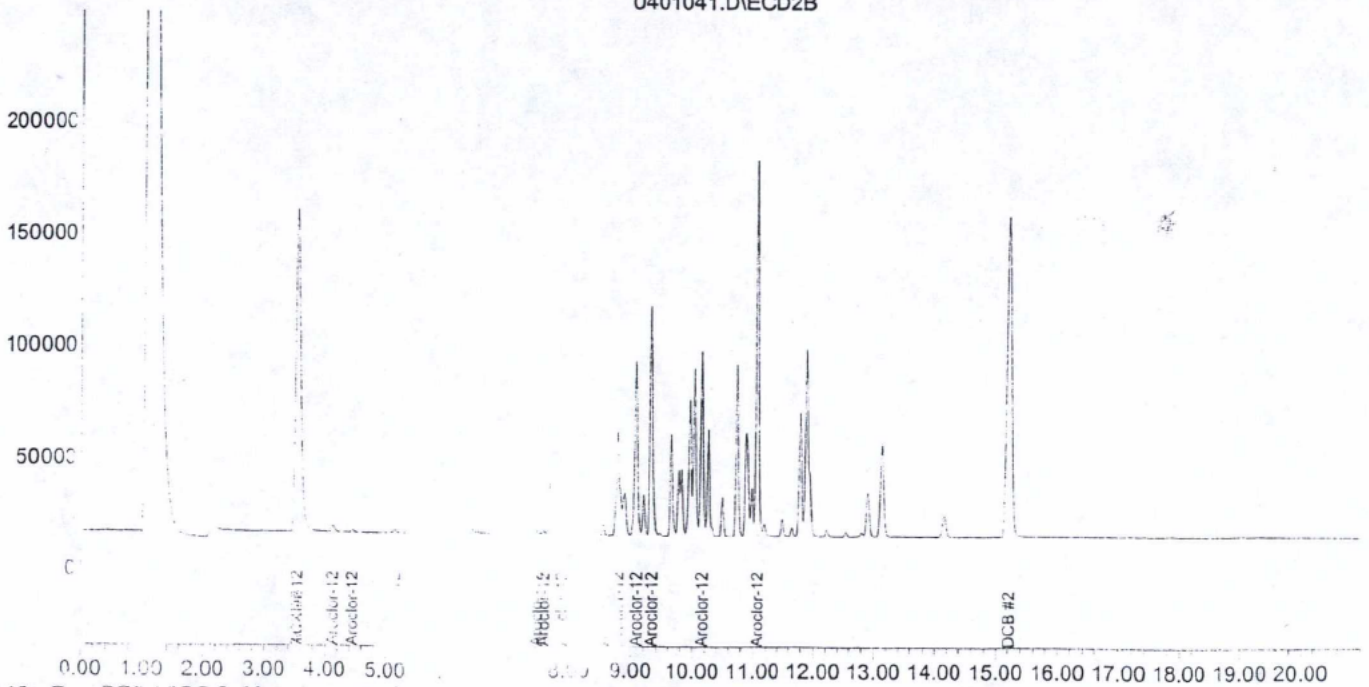
Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 [illegible] 17:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401041.D\ECD1A



0401041.D\ECD2B



Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401055.D\ECD1A.CH Vial: 55
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401055.D\ECD2B.CH
Acq On : 2 Apr 2004 10:05 Operator:
Sample : 04-002-09MS Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 14:10 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
37) S DCB	13.34	15.25	76189	94348	0.076	0.071
Spiked Amount 0.100			Recovery	=	~~76.00%~~	71.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
2[illegible]) L4 Aroclor-1242 {4}	0.00	5.69f	0	618	N.D.	0.017 #
Sum Aroclor-1242			0	618	N.D.	0.017
Average Aroclor-1242					0.000	0.017
2[illegible]) L5 Aroclor-1248 {5}	7.06f	7.57f	530	942	0.007	0.009 #
Sum Aroclor-1248			530	942	0.007	0.009
Average Aroclor-1248					0.007	0.009
2[illegible]) L6 Aroclor-1254	7.40	0.00	1132	0	0.016	N.D. #
2[illegible]) L6 Aroclor-1254 {2}	0.00	7.85f	0	2160	N.D.	0.017 #
29) L6 Aroclor-1254 {3}	8.51f	8.63f	25083	2674	0.474	0.029 #
Sum Aroclor-1254			26215	4835	0.490	0.046
Average Aroclor-1254					0.245	0.023
32) L7 Aroclor-1260	8.51f	8.86f	25043	22507	0.327m KMS 4-2-04	0.261m KMS 4-2-04
3[illegible]) L7 Aroclor-1260 {2}	8.91f	9.15f	32524	38392	0.339m	0.269m
3[illegible]) L7 Aroclor-1260 {3}	10.08f	9.39f	26770	51877	0.358	0.277m
35) L7 Aroclor-1260 {4}	10.58f	10.21f	59981	43068	0.368	0.292
36) L7 Aroclor-1260 {5}	11.17f	11.10f	37361	94178	0.389	0.315
Sum Aroclor-1260			181679	250021	~~1.781~~	1.415
Average Aroclor-1260					0.356	0.283

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

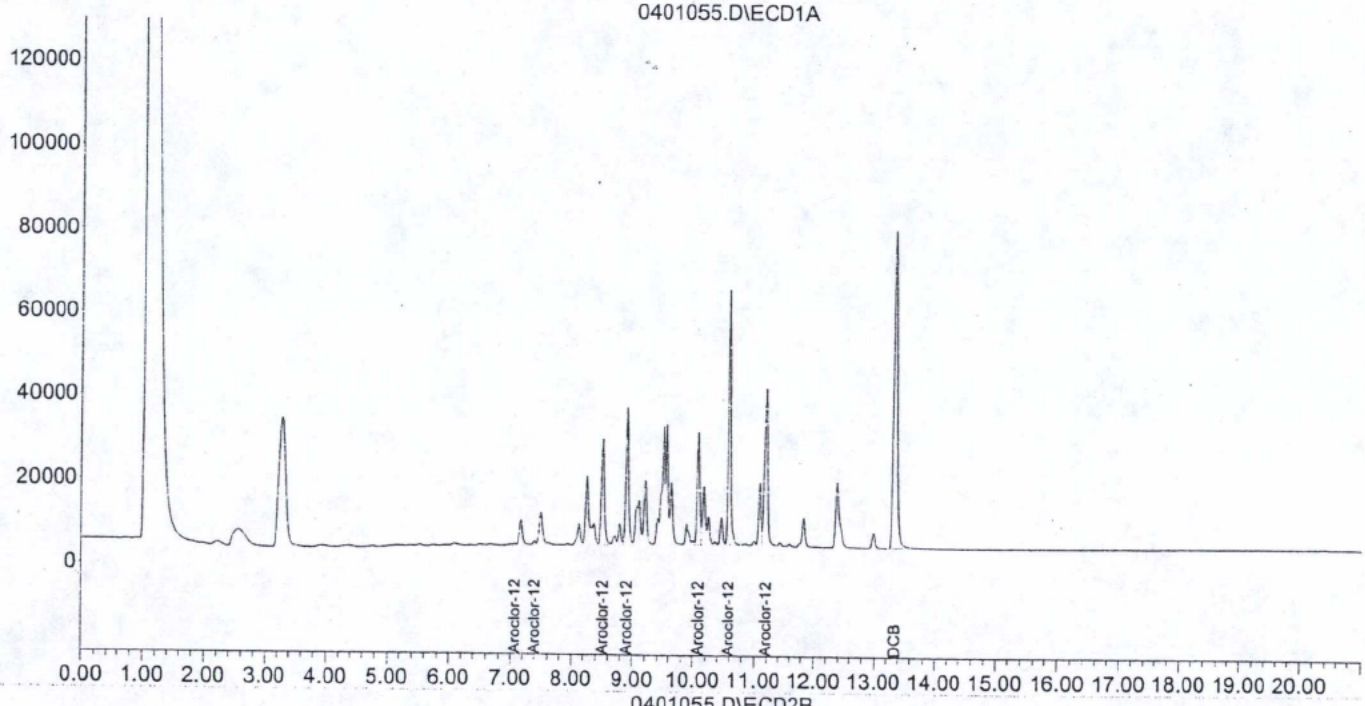
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401055.D\ECD1A.CH Vial: 55
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401055.D\ECD2B.CH
Acq On : 2 Apr 2004 10:05 Operator:
Sample : 04-002-09MS Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 14:10 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401055.D\ECD1A



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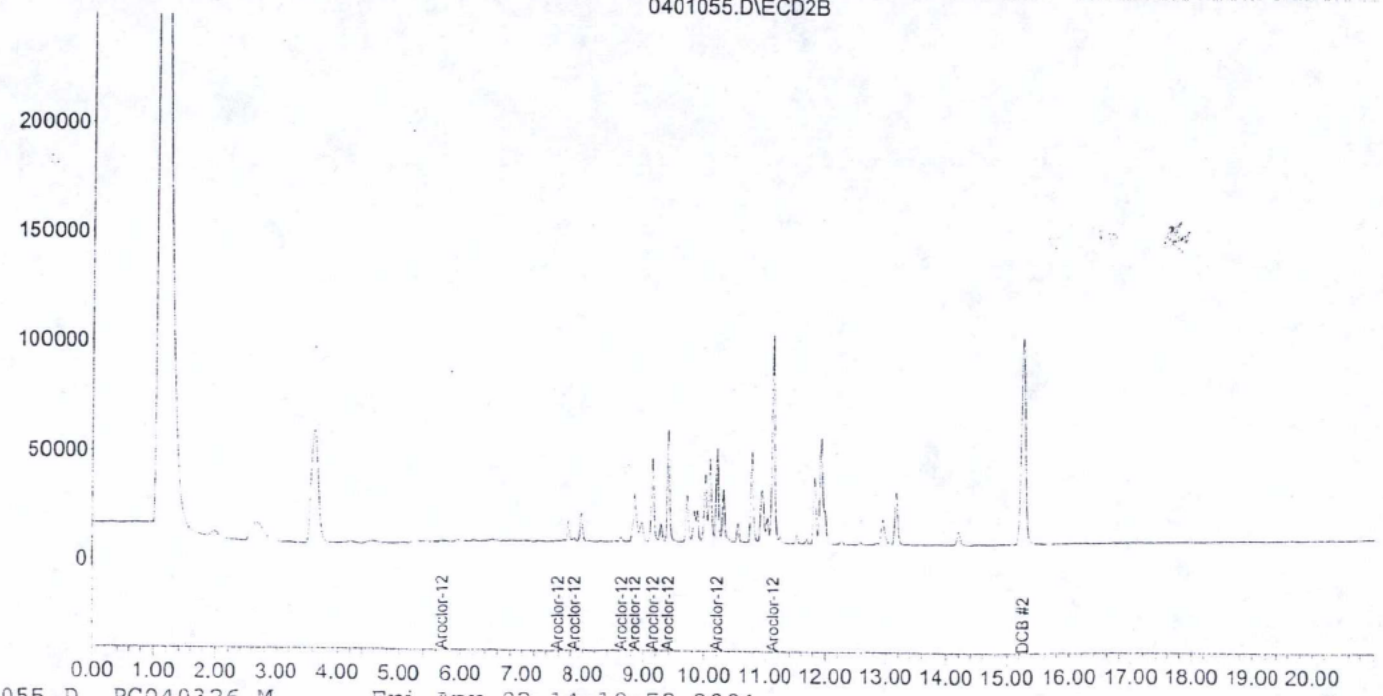


Quantitation Report (QT Reviewed)

Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401056.D\ECD1A.CH Vial: 56
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401056.D\ECD2B.CH
Acq On : 2 Apr 2004 10:29 Operator:
Sample : 04-002-09MSD Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 14:12 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Initial Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
37) S DCB	13.34	15.25	78690	94555	0.078	0.071
Spiked Amount 0.100			Recovery	=	78.00%	71.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
[illegible]) L4 Aroclor-1242 {4}	0.00	5.69f	0	1137	N.D.	0.031 #
Sum Aroclor-1242			0	1137	N.D.	0.031
Average Aroclor-1242					0.000	0.031
[illegible]) L5 Aroclor-1248 {3}	6.58	0.00	324	0	0.007	N.D. #
[illegible]) L5 Aroclor-1248 {5}	7.07f	7.57f	440	1225	0.006	0.012 #
Sum Aroclor-1248			763	1225	0.013	0.012
Average Aroclor-1248					0.006	0.012
[illegible]) L6 Aroclor-1254	7.40	0.00	1122	0	0.016	N.D. #
28) L6 Aroclor-1254 {2}	0.00	7.85f	0	2420	N.D.	0.019 #
[illegible]) L6 Aroclor-1254 {3}	8.51f	8.63f	25357	2927	0.480	0.031 #
Sum Aroclor-1254			26479	5347	0.495	0.050
Average Aroclor-1254					0.248	0.025
[illegible]) L7 Aroclor-1260	8.51f	8.86f	25353	22599	0.332m KMS 4-2-04	0.262m KMS 4-2-04
[illegible]) L7 Aroclor-1260 {2}	8.90f	9.15f	33458	38172	0.349m	0.267m
34) L7 Aroclor-1260 {3}	10.08f	9.39f	27295	52147	0.365m	0.279m
35) L7 Aroclor-1260 {4}	10.58f	10.21f	62139	42783	0.382	0.290
[illegible]) L7 Aroclor-1260 {5}	11.17f	11.10f	37808	94900	0.394	0.318
Sum Aroclor-1260			186053	250601	1.821	1.416
Average Aroclor-1260					0.364	0.283

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

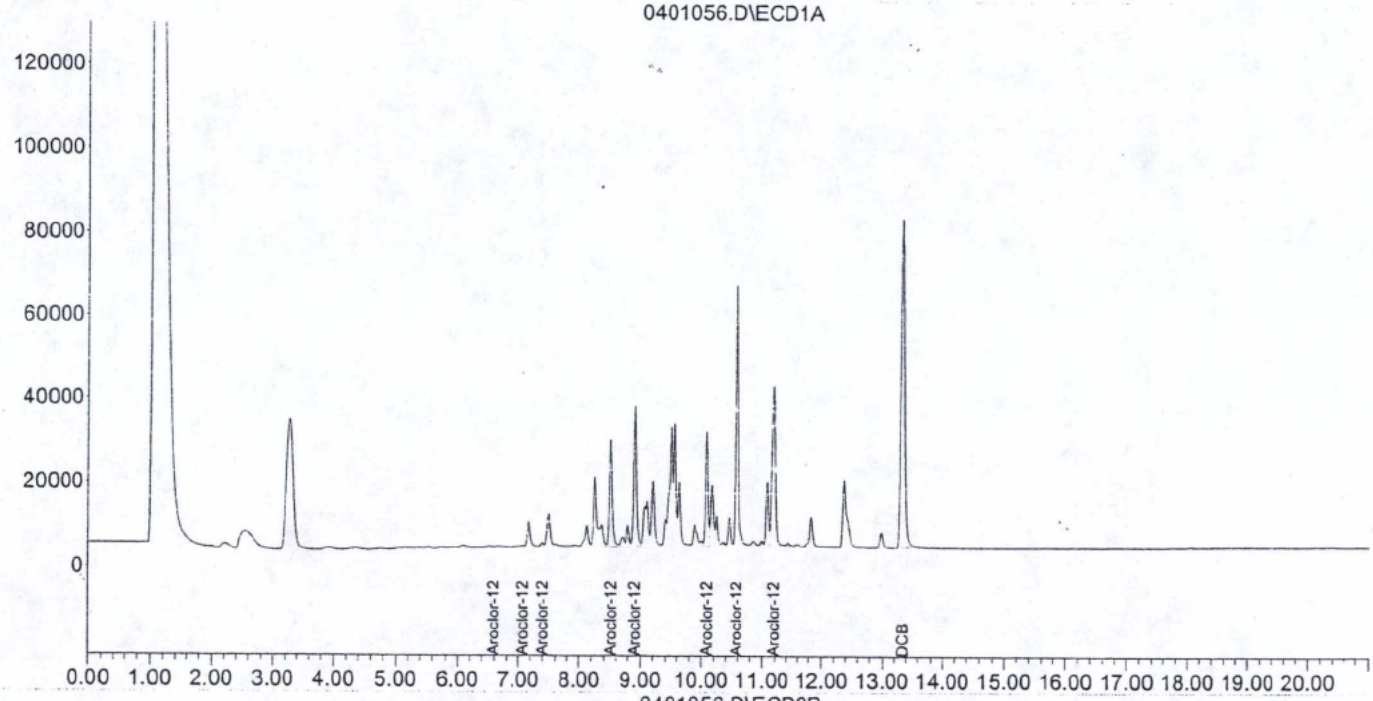
Signal #1 : X:\PEST\GEORGE\DATA\G040401\0401056.D\ECD1A.CH Vial: 56
Signal #2 : X:\PEST\GEORGE\DATA\G040401\0401056.D\ECD2B.CH
Acq On : 2 Apr 2004 10:29 Operator:
Sample : 04-002-09MSD Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Apr 2 14:12 2004 Quant Results File: PC040326.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040326.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Mar 30 09:27:58 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040326.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0401056.D\ECD1A



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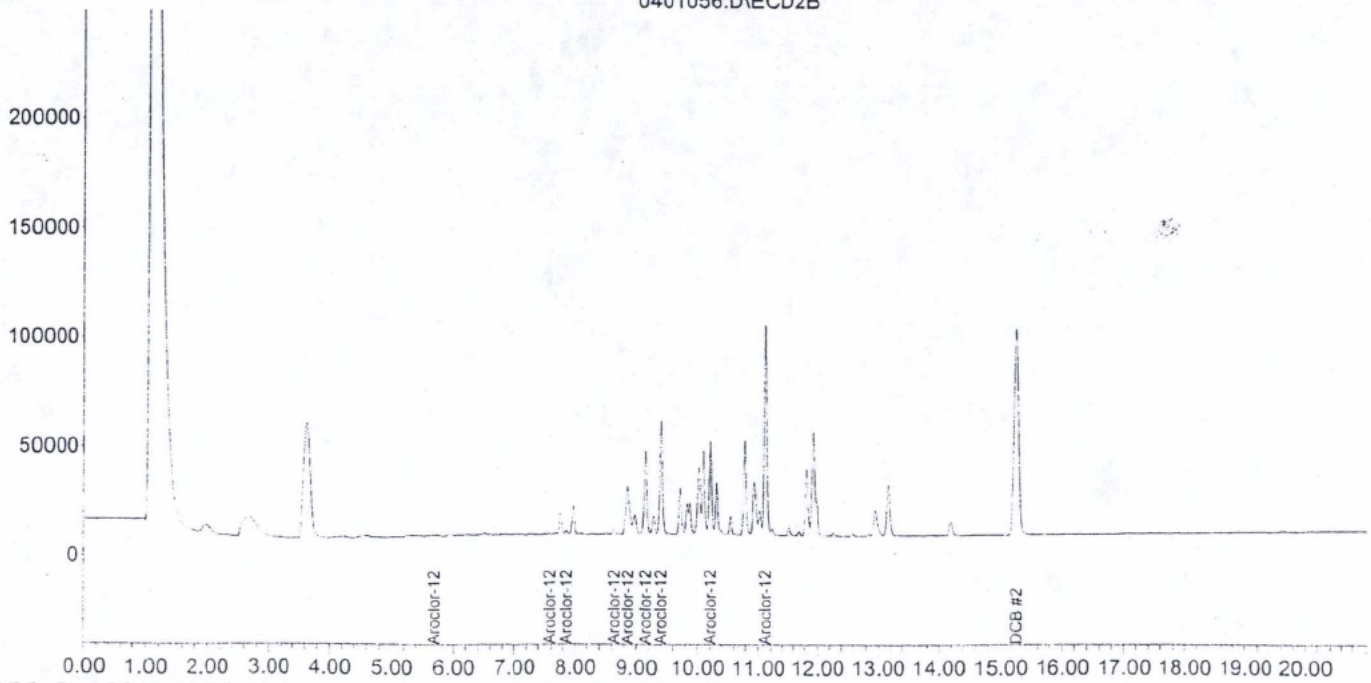


transformer oil

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 11, 2004

Ross Cayetano
Seattle City Light
700 Fifth Avenue, Suite 3300
Seattle, WA 98104

Re: Analytical Data for Project SCL 756
Laboratory Reference No. 0403-081

Dear Ross:

Enclosed are the analytical results and associated quality control data for samples submitted on March 10, 2004.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Blair Goodrow
Project Manager

Enclosures

Date of Report: March 11, 2004
Samples Submitted: March 11, 2004
Laboratory Reference: 0403-081
Project: SCL 756

Case Narrative

Samples were collected on March 10, 2004, and were received by the laboratory on March 10, 2004. They were maintained at the laboratory at a temperature of 4°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a footnote reference and will be included on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 11, 2004
Samples Submitted: March 10, 2004
Laboratory Reference: 0403-081
Project: SCL 756

PCBs by EPA 8082
Sample Summary

Date Extracted: 3-10-04
Date Analyzed: 3-11-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID	Client ID	Results	PCB Type	Surrogate % Recovery	PQL	Comments/ Flags
03-081-01	031004-1 (P620)	ND	----	80	0.97	
03-081-02	031004-2 (P621)	ND	----	78	0.98	
03-081-03	031004-3 (P622)	ND	----	77	0.99	
03-081-04	031004-4 (N637)	ND	----	70	1.0	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 11, 2004
Samples Submitted: March 10, 2004
Laboratory Reference: 0403-081
Project: SCL 756

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted:	3-10-04
Date Analyzed:	3-11-04
Matrix:	Oil
Units:	mg/kg (ppm)
Lab ID:	MB0310O1

	Result	PQL
Aroclor 1016:	**ND**	1.0
Aroclor 1221:	**ND**	1.0
Aroclor 1232:	**ND**	1.0
Aroclor 1242:	**ND**	1.0
Aroclor 1248:	**ND**	1.0
Aroclor 1254:	**ND**	1.0
Aroclor 1260:	**ND**	1.0

Surrogate	**Percent Recovery**	**Control Limits**
Decachlorobiphenyl	85	60-134

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 11, 2004
Samples Submitted: March 10, 2004
Laboratory Reference: 0403-081
Project: SCL 756

PCBs by EPA 8082
MS/MSD QUALITY CONTROL

Date Extracted: 3-10-04
Date Analyzed: 3-11-04

Matrix: Oil
Units: mg/kg (ppm)

Lab ID: 03-081-01

Spike Level: 10.0

	MS	Percent Recovery	MSD	Percent Recovery	RPD
Aroclor 1260:	7.10	71	7.02	70	1
PQL	0.99		0.99		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	81	80	60-134

Flags:

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

D - Data from 1:____ dilution.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons outside the defined gasoline range are present in the sample.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD is outside control limits due to sample inhomogeneity.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with a silica gel/acid cleanup procedure.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: SEATTLE CITY LIGHT
Project No.: SCL756
Project Name: BOEING TRANSFORMER
Project Manager: ROSS A. CAYETANO

Turnaround Request (in working days)
(Check One)
☒ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☐ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager: ROSS A. CAYETANO
Laboratory No. 03-081

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
01	031004-1 (PG20)	3/10/04	11:30 AM										X												
02	031004-2 (PG21)	↓	↓										X												
03	031004-3 (PG22)												X												
04	031004-4 (NG37)												X												

RELINQUISHED BY	DATE	RECEIVED BY	DATE
ROSS A. CAYETANO	3/10/04	ALLAN YAMZON	3/10/04
FIRM: SEATTLE CITY LIGHT	TIME: 12:56 pm	FIRM: SPEEDY	TIME: 12:56
RELINQUISHED BY: ALLAN YAMZON	DATE: 3/10/4	RECEIVED BY: [signature]	DATE: 3/10/04
FIRM: SPEEDY	TIME: 13:35	FIRM: OnSite Env.	TIME: 13:35

REVIEWED BY
DATE REVIEWED

COMMENTS:

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy; Yellow - Project Copy; Pink - Client Copy

Quantitation Report (Not Reviewed)

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311003.D\ECD1A.CH Vial: 3
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311003.D\ECD2B.CH
Acq On : 11 Mar 2004 9:33 am Operator:
Sample : 03-081-01 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 9:54 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Initial Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
7) S DCB	13.33	15.25	79490	99852	0.076	0.080
Spiked Amount 0.100			Recovery	=	76.00%	80.00%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
7) L2 Aroclor-1221	2.68	3.00	561	480	0.080	0.051 #
9) L2 Aroclor-1221 {3}	4.07	0.00	464	0	0.017	N.D. #
Sum Aroclor-1221			1025	480	0.097	0.051
Average Aroclor-1221					0.049	0.051
12) L3 Aroclor-1232	2.68f	3.00	561	480	0.128	0.085 #
15) L3 Aroclor-1232 {4}	4.07	0.00	464	0	0.020	N.D. #
Sum Aroclor-1232			1025	480	0.148	0.085
Average Aroclor-1232					0.074	0.085
17) L4 Aroclor-1242	4.07	0.00	464	0	0.028	N.D. #
0) L4 Aroclor-1242 {4}	0.00	5.65	0	2388	N.D.	0.066 #
21) L4 Aroclor-1242 {5}	0.00	5.89	0	1558	N.D.	0.012 #
Sum Aroclor-1242			464	3946	0.028	0.078
Average Aroclor-1242					0.028	0.039
22) L5 Aroclor-1248	0.00	5.89f	0	1558	N.D.	0.017 #
23) L5 Aroclor-1248 {2}	0.00	6.45	0	1455	N.D.	0.019 #
5) L5 Aroclor-1248 {5}	7.07f	7.57f	1463	708	0.019	0.007 #
Sum Aroclor-1248			1463	3722	0.019	0.043
Average Aroclor-1248					0.019	0.014
7) L6 Aroclor-1254	7.39f	0.00	916	0	0.013	N.D. #
9) L6 Aroclor-1254 {3}	8.50f	8.57	2401	915	0.045	0.010 #
30) L6 Aroclor-1254 {4}	8.60f	8.74f	934	799	0.013	0.005 #
31) L6 Aroclor-1254 {5}	8.90f	0.00	2956	0	0.052	N.D. #
Sum Aroclor-1254			7207	1714	0.123	0.015
Average Aroclor-1254					0.031	0.007
3) L7 Aroclor-1260 {2}	8.90f	9.14f	2956	3334	0.010	N.D. #
5) L7 Aroclor-1260 {4}	10.57	10.20	3678	3244	0.011	N.D. #
36) L7 Aroclor-1260 {5}	0.00	11.10	0	7679	N.D.	0.005 #
Sum Aroclor-1260			6633	7679	0.021	N.D.
Average Aroclor-1260					0.010	-0.009

LDL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

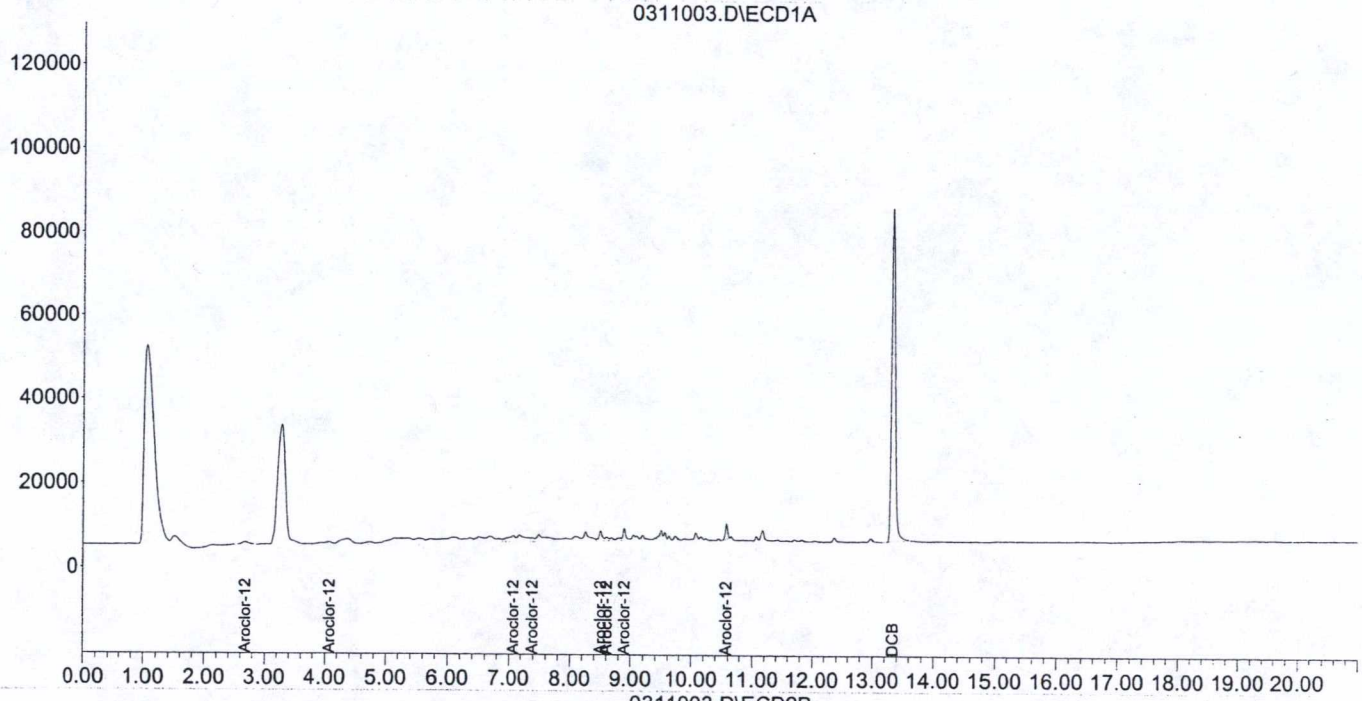
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311003.D\ECD1A.CH Vial: 3
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311003.D\ECD2B.CH
Acq On : 11 Mar 2004 9:33 am Operator:
Sample : 03-081-01 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 9:54 2004 Quant Results File: PC040223.RES

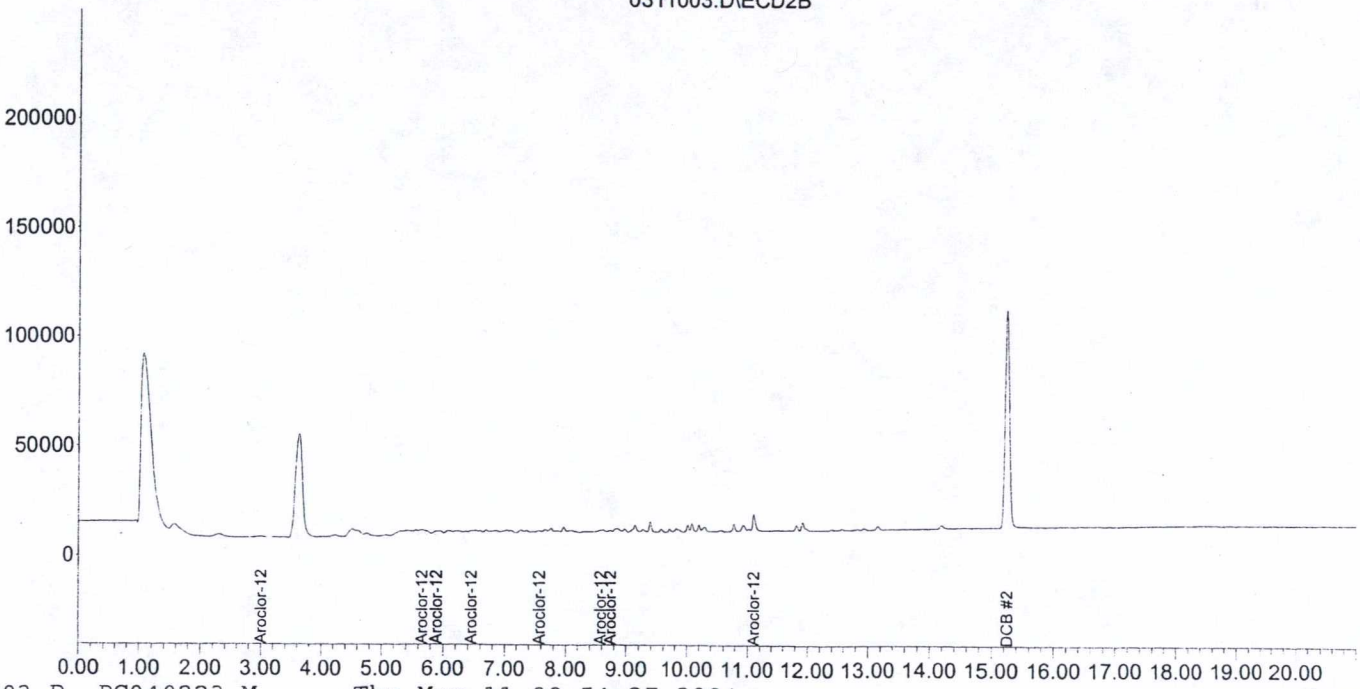
Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0311003.D\ECD1A



0311003.D\ECD2B



Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311004.D\ECD1A.CH Vial: 4
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311004.D\ECD2B.CH
Acq On : 11 Mar 2004 10:21 am Operator:
Sample : 03-081-02 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 10:42 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Initial Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
7) S DCB	13.34	15.25	77729	97345	0.074	0.078
Spiked Amount 0.100			Recovery	=	74.00%	78.00%
Target Compounds						
5) L1 Aroclor-1016 {4}	6.05f	6.35	1187	2159	0.005	0.012 #
6) L1 Aroclor-1016 {5}	0.00	6.52	0	2088	N.D.	0.005 #
Sum Aroclor-1016			1187	4247	0.005	0.017
verage Aroclor-1016					0.005	0.009
7) L2 Aroclor-1221	2.68	0.00	324	0	0.046	N.D. #
9) L2 Aroclor-1221 {3}	4.06	0.00	300	0	0.011	N.D. #
0) L2 Aroclor-1221 {4}	0.00	4.51f	0	3317	N.D.	0.066 #
Sum Aroclor-1221			624	3317	0.057	0.066
Average Aroclor-1221					0.029	0.066
2) L3 Aroclor-1232	2.68	0.00	324	0	0.074	N.D. #
15) L3 Aroclor-1232 {4}	4.06	4.51f	300	3317	0.013	0.072 #
16) L3 Aroclor-1232 {5}	4.71f	0.00	338	0	0.017	N.D. #
Sum Aroclor-1232			961	3317	0.104	0.072
verage Aroclor-1232					0.035	0.072
7) L4 Aroclor-1242	4.06	0.00	300	0	0.018	N.D. #
8) L4 Aroclor-1242 {2}	4.71f	4.51f	338	3317	0.009	0.096 #
20) L4 Aroclor-1242 {4}	0.00	5.64	0	3133	N.D.	0.086 #
21) L4 Aroclor-1242 {5}	0.00	5.87	0	2030	N.D.	0.015 #
Sum Aroclor-1242			637	8480	0.027	0.198
verage Aroclor-1242					0.014	0.066
22) L5 Aroclor-1248	6.05f	5.87	1187	2030	0.020	0.022
3) L5 Aroclor-1248 {2}	0.00	6.44	0	2308	N.D.	0.031 #
4) L5 Aroclor-1248 {3}	6.57	0.00	1094	0	0.023	N.D. #
25) L5 Aroclor-1248 {4}	0.00	7.53	0	1636	N.D.	0.013 #
26) L5 Aroclor-1248 {5}	7.07f	7.64f	1916	1933	0.025	0.018 #
Sum Aroclor-1248			4197	7907	0.068	0.084
verage Aroclor-1248					0.023	0.021
7) L6 Aroclor-1254	7.38f	7.53	958	1636	0.013	0.026 #
9) L6 Aroclor-1254 {3}	8.50f	8.56	1752	1561	0.033	0.017 # LDC
30) L6 Aroclor-1254 {4}	8.61f	8.73f	851	1282	0.012	0.008 #
31) L6 Aroclor-1254 {5}	8.90f	0.00	2136	0	0.038	N.D. #
Sum Aroclor-1254			5697	4479	0.096	0.051
verage Aroclor-1254					0.024	0.017

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311004.D\ECD1A.CH Vial: 4
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311004.D\ECD2B.CH
Acq On : 11 Mar 2004 10:21 am Operator:
Sample : 03-081-02 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 10:42 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Initial Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
Sum Aroclor-1260			0	0	N.D.	N.D.
verage Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

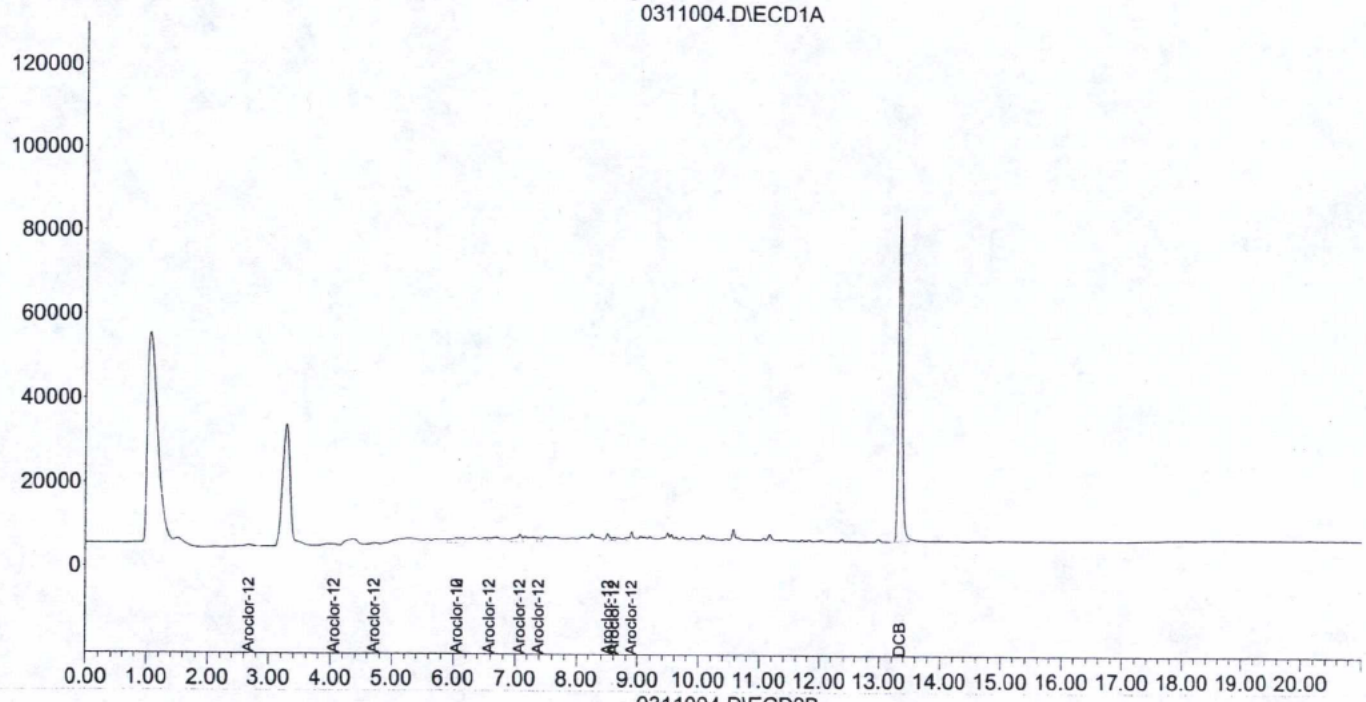
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311004.D\ECD1A.CH Vial: 4
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311004.D\ECD2B.CH
Acq On : 11 Mar 2004 10:21 am Operator:
Sample : 03-081-02 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 10:42 2004 Quant Results File: PC040223.RES

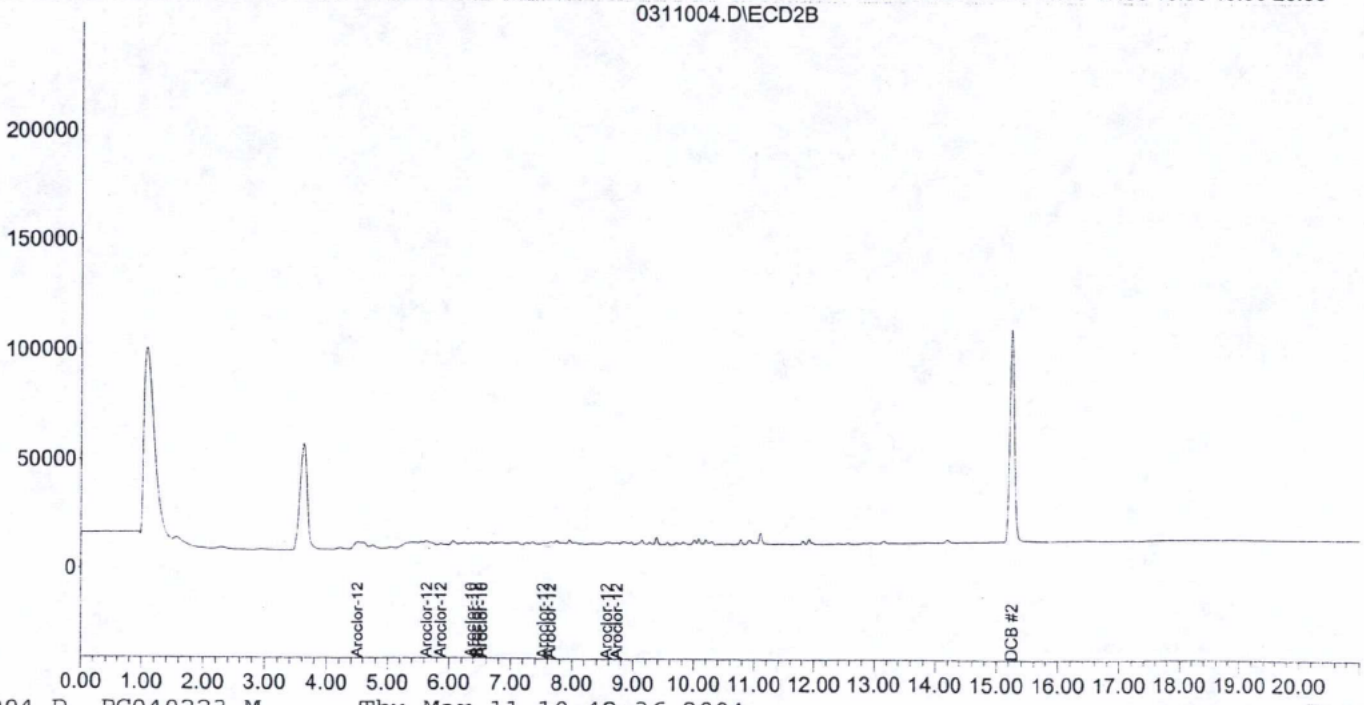
Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

0311004.D\ECD1A



0311004.D\ECD2B



Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311005.D\ECD1A.CH Vial: 5
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311005.D\ECD2B.CH
Acq On : 11 Mar 2004 10:45 am Operator:
Sample : 03-081-03 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 11:06 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Initial Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
7) S DCB	13.33	15.25	78825	96400	0.075	0.077
Spiked Amount 0.100			Recovery	=	75.00%	77.00%
Target Compounds						
4) L1 Aroclor-1016 {3}	0.00	6.07f	0	3870	N.D.	0.026 #
5) L1 Aroclor-1016 {4}	6.06f	6.37f	1018	2042	0.001	0.010 #
6) L1 Aroclor-1016 {5}	0.00	6.52	0	2206	N.D.	0.008 #
Sum Aroclor-1016			1018	8118	0.001	0.044
Average Aroclor-1016					0.001	0.015
7) L2 Aroclor-1221	2.68	2.99	512	474	0.073	0.051 #
9) L2 Aroclor-1221 {3}	4.07	0.00	490	0	0.018	N.D. #
10) L2 Aroclor-1221 {4}	0.00	4.51f	0	3489	N.D.	0.069 #
Sum Aroclor-1221			1002	3963	0.091	0.120
Average Aroclor-1221					0.046	0.060
12) L3 Aroclor-1232	2.68	2.99	512	474	0.117	0.084 #
15) L3 Aroclor-1232 {4}	4.07	4.51f	490	3489	0.021	0.076 #
16) L3 Aroclor-1232 {5}	4.72f	0.00	237	0	0.012	N.D. #
Sum Aroclor-1232			1239	3963	0.150	0.160
Average Aroclor-1232					0.050	0.080
17) L4 Aroclor-1242	4.07	0.00	490	0	0.029	N.D. #
18) L4 Aroclor-1242 {2}	4.72f	4.51f	237	3489	0.006	0.101 #
20) L4 Aroclor-1242 {4}	0.00	5.65	0	3133	N.D.	0.086 #
21) L4 Aroclor-1242 {5}	5.70f	5.88	854	1918	0.028	0.015 #
Sum Aroclor-1242			1581	8540	0.064	0.202
Average Aroclor-1242					0.021	0.067
22) L5 Aroclor-1248	6.06f	5.88	1018	1918	0.017	0.021
23) L5 Aroclor-1248 {2}	0.00	6.45	0	2225	N.D.	0.029 #
25) L5 Aroclor-1248 {4}	0.00	7.54f	0	1688	N.D.	0.014 #
26) L5 Aroclor-1248 {5}	7.07f	7.65f	2320	2116	0.030	0.020 #
Sum Aroclor-1248			3337	7946	0.047	0.084
Average Aroclor-1248					0.024	0.021
27) L6 Aroclor-1254	7.39f	7.54f	838	1688	0.012	0.027 #
29) L6 Aroclor-1254 {3}	8.51f	8.57	1433	1944	0.027	0.021
30) L6 Aroclor-1254 {4}	8.60f	8.74f	965	1820	0.013	0.011
31) L6 Aroclor-1254 {5}	8.90f	0.00	1751	0	0.031	N.D. #
Sum Aroclor-1254			4987	5452	0.083	0.059
Average Aroclor-1254					0.021	0.020

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311005.D\ECD1A.CH Vial: 5
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311005.D\ECD2B.CH
Acq On : 11 Mar 2004 10:45 am Operator:
Sample : 03-081-03 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 11:06 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Initial Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
Sum Aroclor-1260			0	0	N.D.	N.D.
verage Aroclor-1260					0.000	0.000

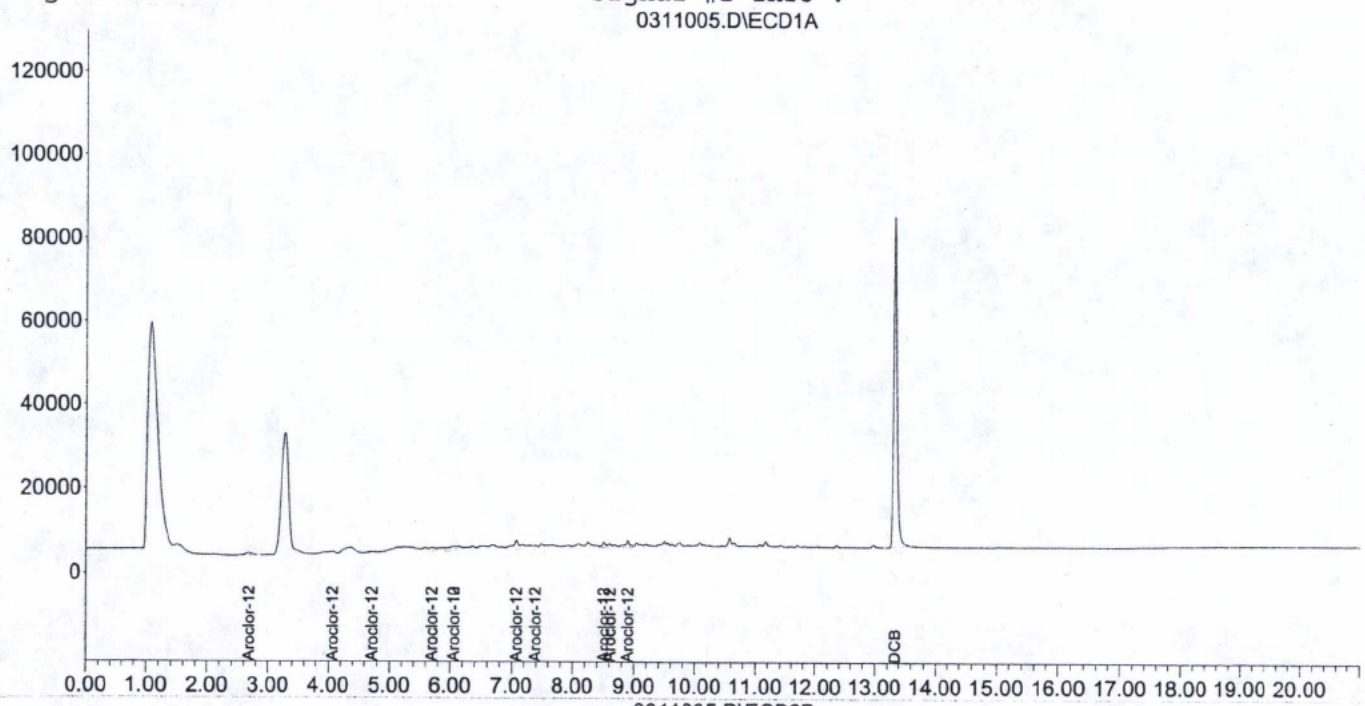
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

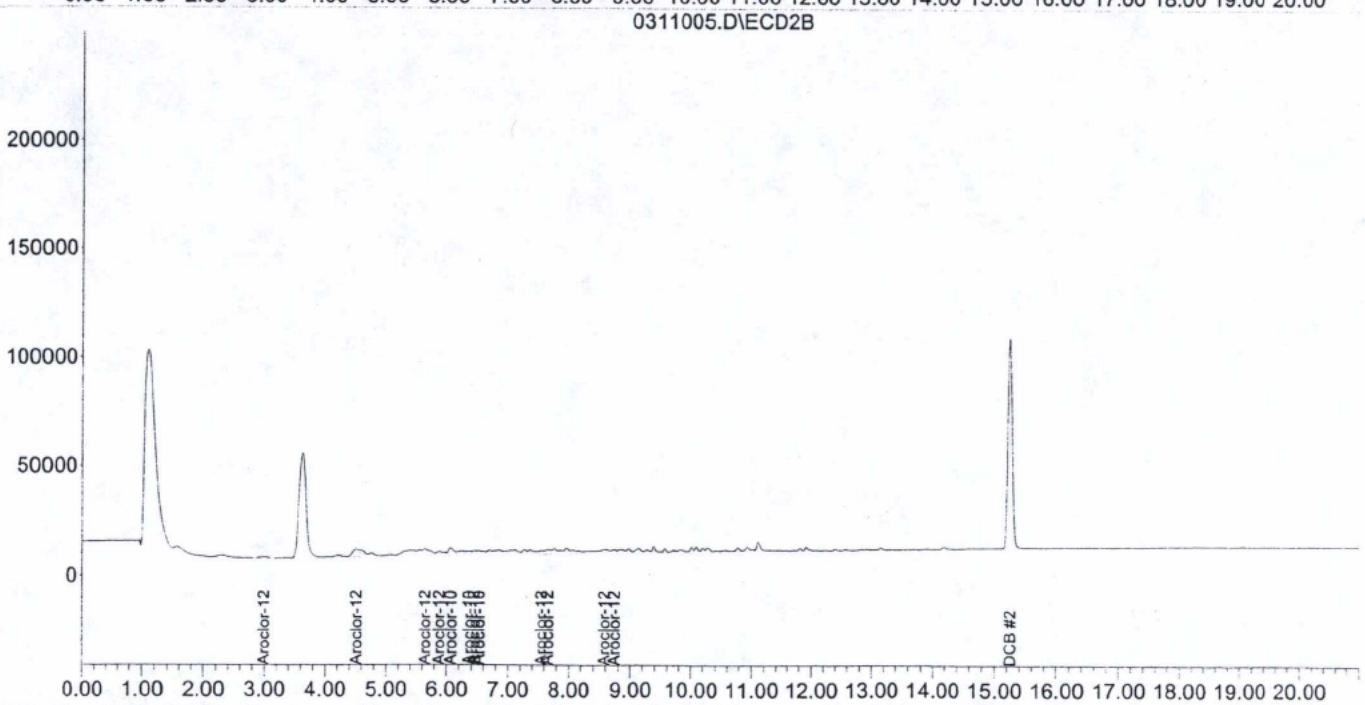
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311005.D\ECD1A.CH Vial: 5
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311005.D\ECD2B.CH
Acq On : 11 Mar 2004 10:45 am Operator:
Sample : 03-081-03 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 11:06 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311006.D\ECD1A.CH Vial: 6
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311006.D\ECD2B.CH
Acq On : 11 Mar 2004 11:08 am Operator:
Sample : 03-081-04 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 11:30 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Initial Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ppm	ppm
System Monitoring Compounds						
7) S DCB	13.34	15.26	72649	88215	0.069	0.070
Spiked Amount 0.100			Recovery	=	69.00%	70.00%
Target Compounds						
6) L1 Aroclor-1016 {5}	0.00	6.53	0	6138	N.D.	0.085 #
Sum Aroclor-1016			0	6138	N.D.	0.085
Average Aroclor-1016					0.000	0.085
7) L2 Aroclor-1221	0.00	3.02	0	1171	N.D.	0.125 #
Sum Aroclor-1221			0	1171	N.D.	0.125
Average Aroclor-1221					0.000	0.125
12) L3 Aroclor-1232	0.00	3.02	0	1171	N.D.	0.206 #
Sum Aroclor-1232			0	1171	N.D.	0.206
Average Aroclor-1232					0.000	0.206
20) L4 Aroclor-1242 {4}	0.00	5.66f	0	1972	N.D.	0.054 #
Sum Aroclor-1242			0	1972	N.D.	0.054
Average Aroclor-1242					0.000	0.054
24) L5 Aroclor-1248 {3}	6.54f	0.00	2525	0	0.053	N.D. #
26) L5 Aroclor-1248 {5}	7.08f	7.57f	1036	1389	0.013	0.013
Sum Aroclor-1248			3561	1389	0.067	0.013
Average Aroclor-1248					0.033	0.013
27) L6 Aroclor-1254	7.40	0.00	421	0	0.006	N.D. #
29) L6 Aroclor-1254 {3}	0.00	8.63f	0	1064	N.D.	0.011 #
Sum Aroclor-1254			421	1064	0.006	0.011
Average Aroclor-1254					0.006	0.011
34) L7 Aroclor-1260 {3}	10.09f	9.39f	1453	4542	0.008	N.D. #
35) L7 Aroclor-1260 {4}	10.58f	10.21f	3605	3626	0.010	N.D. #
36) L7 Aroclor-1260 {5}	0.00	11.11	0	7354	N.D.	0.003 #
Sum Aroclor-1260			5058	7354	0.018	N.D.
Average Aroclor-1260					0.009	-0.003

DL

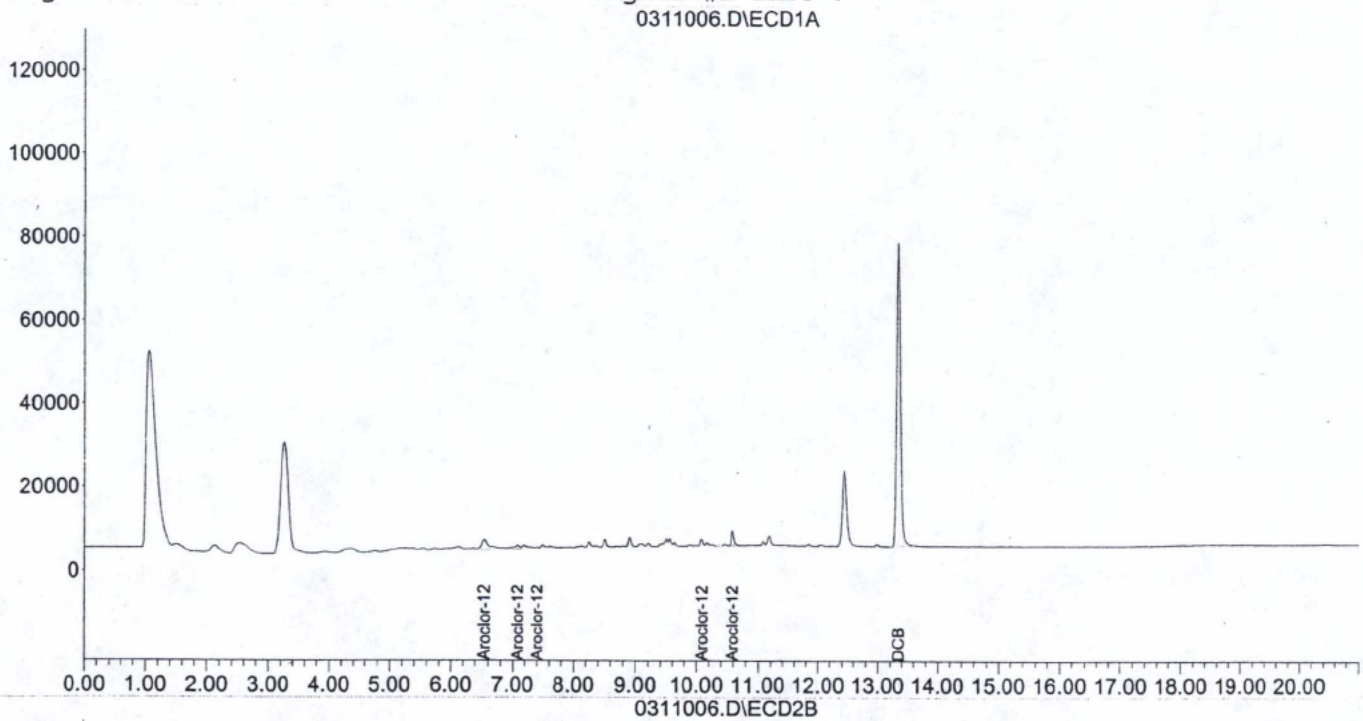
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

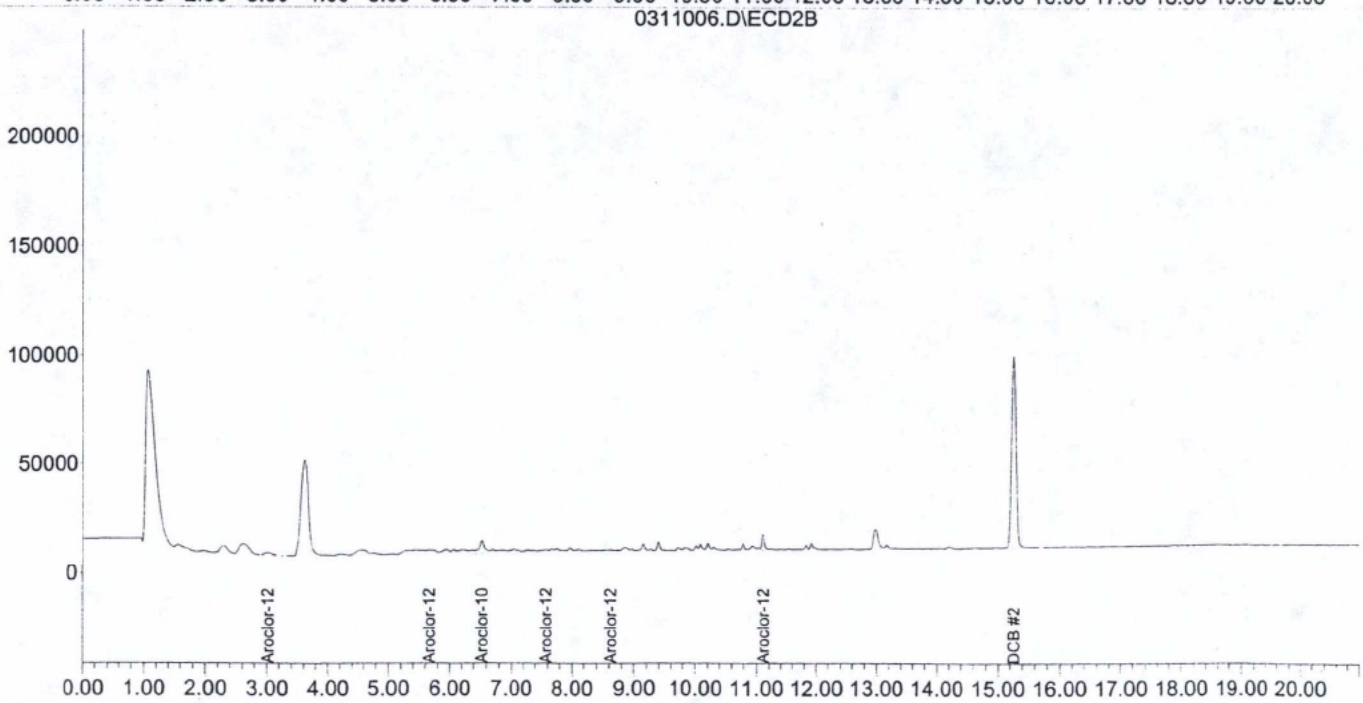
Signal #1 : E:\HPCHEM\GEORGE\DATA\G040311\0311006.D\ECD1A.CH Vial: 6
Signal #2 : E:\HPCHEM\GEORGE\DATA\G040311\0311006.D\ECD2B.CH
Acq On : 11 Mar 2004 11:08 am Operator:
Sample : 03-081-04 RR Inst : George #1
Misc : Multiplr: 1.00
Sample Amount: 0.00
IntFile Signal #1: autoint1.e IntFile Signal #2: AUTOINT2.E

Quant Time: Mar 11 11:30 2004 Quant Results File: PC040223.RES

Quant Method : C:\HPCHEM\1\METHODS\PC040223.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Feb 24 16:39:13 2004
Response via : Multiple Level Calibration
DataAcq Meth : PC040223.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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