№ 62003

University Hygienic Laboratory **Sample Extraction Record** | Method: SxSxM | Book No. 385

Client TETRA TECH

	PCB	PAH	PCB	PAH	
Lab Sample No.	PPUFB2003A	PPUFB2003B	PPUFS2003A	PPUF2003B	200700372[illegible]
Date Collected					02-08-07
Date Received					02-08-07
Date Extracted	02-08-07	—	—	—	—
Sample Matrix	Pulp	—	—	—	—
Client ID	Lot # 4000	Lot # 4117	Lot # 4000	Lot # 4000	KCF-001-PCB
Source	Exp 1/08	Exp 2/08	Exp 1/08	Exp 1/08	
Analytes	PCBs/Pesticides/PAH	—	—	—	—
Surrogate Volume	100µl CHI	~~100µl PAH~~ 100µl BNA	—	100µl BNA	—
Spike Volume			100µl	100µl	
Sample Volume/Weight	Entire Pulp	—	—	—	—
~~Sample pH~~ INT. STD (2/9/07 MS)	100ul		100 ul		100 ul
Tare Wt.					
Tare & Sample Wt. (Wet)					
Tare & Sample Wt. (Dry)					
Sample Wt. (Wet)					
Sample Wt. (Dry)					
Wt. Loss					
% Moisture or Oil, or Solid					

Comments Yellow copy given to PCB analyst. Photocopy given to PAH analyst.
CHI SOIL INT. STD 3P7-38D-1106 EXP: 11/7/07
Separate blks & spikes were done for the GC & MS since both samples were spkd. PAH surrogate added to all samples. BNA surrogate added to PAH blk / spk only. CHI internal standard added after sample extraction spk'd.

Started Soxhlets at 2:30pm 2/8/07

RUSH !!

Surrogate ID CHI Soil 3P7-38C-1106 Exp 11/7/07 BNA Surrogate S2,9B Exp 11/1/07

Spike ID Aroclor 1262(PCB) Soil 3PS-694-0605 Exp 5/1/07 BNA Spike Mix I & II S2,9B Exp 7/13/07

Solvent(s)	80% DCM	Hexane			
(Lot #)	CS 310	CA1659			

Extracted By: CJ, KB, MD SE Transferred To: MR

Extract Location: E202 Transfer Date: 11/7/07

Logged Off By/Date: MS 2/9/07

No 52004

University Hygienic Laboratory **Sample Extraction Record**

Method: 5x5x m | Book No. 385

Client Tetra Tech

Rev. 2/07

Lab Sample No.	2007003723	2007003725	2007003727	2007003729	2007003731
Date Collected	02-08-07				
Date Received	02-08-07				
Date Extracted	02-08-07				
Sample Matrix	Puff				
Client ID	KCF-002 PCB	KCF-003-PCB	KCF-004-PCB	KCF-005-PCB	KCF-104-PCB
Source					
Analytes	PCBs/Pest. IPAHs				
Surrogate Volume	100 uL ONLY				
Spike Volume					
Sample Volume/Weight	Entire Puff				
~~Sample pH~~ 2/9/07 (MS) INT. STD	100 uL				
Tare Wt.					
Tare & Sample Wt. (Wet)					
Tare & Sample Wt. (Dry)					
Sample Wt. (Wet)					
Sample Wt. (Dry)					
Wt. Loss					
% Moisture or Oil, or Solid					

Comments

Surrogate ID

Spike ID 52003

Solvent(s) Acetone Hexane

(Lot #)

Extracted By: GL WB MS SE

Extract Location: E202

Logged Off By/Date: MS 2/9/07

Transferred To: WR

Transfer Date: 1/9/07

ELIS
PCB-Air
EPA TO-10

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003721 PUF

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficiency evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not done). Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (ug/sample)	SAMPLE AIR VOL (L)	SAMP. EFF. (%)	CONC. C *** (ug/cu. m)	MOL. WT. (amu)	CONC. D (PPB)
ALDRIN	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	364.9	0.012832341
ALPHA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
BETA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
DELTA-BHC	<	0.4000000	93.8	0.426439232	1128	98.7	0.3830283	290.8	0.032204411
GAMMA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
DDD	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	320.0	0.014632879
DDE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	318.0	0.014724910
DDT	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	354.5	0.013208805
DIELDRIN	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	380.9	0.012293309
ENDRIN	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	380.9	0.012293309
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	381.9	0.012261119
ENDRIN KETONE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	380.9	0.012293309
ENDOSULFAN I	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	406.9	0.011507794
ENDOSULFAN II	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	406.9	0.011507794
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	422.9	0.011072408
HEPTACHLOR	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	373.3	0.012543588
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	389.3	0.012028054
METHOXYCHLOR	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	345.7	0.013545043
AROCLOR 1016	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	257.5	0.272768235
AROCLOR 1221	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	188.5	0.372614433
AROCLOR 1232	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	223.0	0.314967805
AROCLOR 1242	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	257.5	0.272768235
AROCLOR 1248	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	292.0	0.240540482
AROCLOR 1254	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	292.0	0.240540482
AROCLOR 1260	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	292.0	0.240540482

	% RECOVERY
TCMX RECOVERY	69.6
DCBP RECOVERY	79.2

* CONC. A = Concentration value from Empower report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)
***CONC. C = Concentration after correction for the sampling efficiency (SAMP. EFF.)

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003723 PUF

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficiency evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not done). Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (ug/sample)	SAMPLE AIR VOL (L)	SAMP. EFF. (%)	CONC. C *** (ug/cu. m)	MOL. WT. (amu)	CONC. D (PPB)
ALDRIN	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	364.9	0.012832341
ALPHA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
BETA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
DELTA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
GAMMA-BHC	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	290.8	0.016102206
DDD	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	320.0	0.014632879
DDE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	318.0	0.014724910
DDT	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	354.5	0.013208805
DIELDRIN	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	380.9	0.012293309
ENDRIN	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	380.9	0.012293309
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	381.9	0.012261119
ENDRIN KETONE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	380.9	0.012293309
ENDOSULFAN I	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	406.9	0.011507794
ENDOSULFAN II	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	406.9	0.011507794
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	422.9	0.011072408
HEPTACHLOR	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	373.3	0.012543588
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	389.3	0.012028054
METHOXYCHLOR	<	0.2000000	93.8	0.213219616	1128	98.7	0.1915142	345.7	0.013545043
AROCLOR 1016	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	257.5	0.272768235
AROCLOR 1221	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	188.5	0.372614433
AROCLOR 1232	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	223.0	0.314967805
AROCLOR 1242	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	257.5	0.272768235
AROCLOR 1248	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	292.0	0.240540482
AROCLOR 1254	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	292.0	0.240540482
AROCLOR 1260	<	3.0000000	93.8	3.198294243	1128	98.7	2.8727125	292.0	0.240540482

	% RECOVERY
TCMX RECOVERY	66.9
DCBP RECOVERY	83.0

* CONC. A = Concentration value from Empower report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)
***CONC. C = Concentration after correction for the sampling efficiency (SAMP. EFF.)

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003725 PUF

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficiency evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not done). Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (ug/sample)	SAMPLE AIR VOL (L)	SAMP. EFF. (%)	CONC. C *** (ug/cu. m)	MOL. WT. (amu)	CONC. D (PPB)
ALDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	364.9	0.015078001
ALPHA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
BETA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
DELTA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
GAMMA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
DDD	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	320.0	0.017193633
DDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	318.0	0.017301769
DDT	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	354.5	0.015520346
DIELDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	381.9	0.014406815
ENDRIN KETONE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDOSULFAN I	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	406.9	0.013521658
ENDOSULFAN II	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	406.9	0.013521658
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	422.9	0.013010079
HEPTACHLOR	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	373.3	0.014738716
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	389.3	0.014132963
METHOXYCHLOR	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	345.7	0.015915426
AROCLOR 1016	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	257.5	0.320502677
AROCLOR 1221	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	188.5	0.437821959
AROCLOR 1232	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	223.0	0.370087171
AROCLOR 1242	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	257.5	0.320502677
AROCLOR 1248	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066
AROCLOR 1254	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066
AROCLOR 1260	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066

	% RECOVERY
TCMX RECOVERY	67.5
DCBP RECOVERY	79.2

* CONC. A = Concentration value from Empower report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)
***CONC. C = Concentration after correction for the sampling efficiency (SAMP. EFF.)

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003727 PUF

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficiency evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not done). Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (ug/sample)	SAMPLE AIR VOL (L)	SAMP. EFF. (%)	CONC. C *** (ug/cu. m)	MOL. WT. (amu)	CONC. D (PPB)
ALDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	364.9	0.015078001
ALPHA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
BETA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
DELTA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
GAMMA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
DDD	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	320.0	0.017193633
DDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	318.0	0.017301769
DDT	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	354.5	0.015520346
DIELDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	381.9	0.014406815
ENDRIN KETONE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDOSULFAN I	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	406.9	0.013521658
ENDOSULFAN II	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	406.9	0.013521658
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	422.9	0.013010079
HEPTACHLOR	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	373.3	0.014738716
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	389.3	0.014132963
METHOXYCHLOR	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	345.7	0.015915426
AROCLOR 1016	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	257.5	0.320502677
AROCLOR 1221	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	188.5	0.437821959
AROCLOR 1232	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	223.0	0.370087171
AROCLOR 1242	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	257.5	0.320502677
AROCLOR 1248	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066
AROCLOR 1254	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066
AROCLOR 1260	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066

	% RECOVERY
TCMX RECOVERY	69.9
DCBP RECOVERY	81.0

* CONC. A = Concentration value from Turbochrom report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)
***CONC. C = Concentration after correction for the sampling efficiency (SAMP. EFF.)

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003729 PUF

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficiency evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not done). Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (mg/sample)	SAMPLE AIR VOL (L)	SAMP. EFF. (%)	CONC. C *** (ug/cu. m)	MOL. WT. (amu)	CONC. D (PPB)
ALDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	364.9	0.015078001
ALPHA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
BETA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
DELTA-BHC	<	0.4000000	93.8	0.426439232	960	98.7	0.4500583	290.8	0.037840183
GAMMA-BHC	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	290.8	0.018920092
DDD	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	320.0	0.017193633
DDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	318.0	0.017301769
DDT	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	354.5	0.015520346
DIELDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDRIN	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	381.9	0.014406815
ENDRIN KETONE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	380.9	0.014444638
ENDOSULFAN I	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	406.9	0.013521658
ENDOSULFAN II	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	406.9	0.013521658
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	422.9	0.013010079
HEPTACHLOR	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	373.3	0.014738716
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	389.3	0.014132963
METHOXYCHLOR	<	0.2000000	93.8	0.213219616	960	98.7	0.2250291	345.7	0.015915426
AROCLOR 1016	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	257.5	0.320502677
AROCLOR 1221	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	188.5	0.437821959
AROCLOR 1232	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	223.0	0.370087171
AROCLOR 1242	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	257.5	0.320502677
AROCLOR 1248	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066
AROCLOR 1254	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066
AROCLOR 1260	<	3.0000000	93.8	3.198294243	960	98.7	3.3754372	292.0	0.282635066

	% RECOVERY
TCMX RECOVERY	71.7
DCBP RECOVERY	83.1

* CONC. A = Concentration value from Empower report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)
***CONC. C = Concentration after correction for the sampling efficiency (SAMP. EFF.)

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003731 PUF BLANK

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficienc evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not d Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (ug/sample)
ALDRIN	<	0.2000000	93.8	0.213219616
ALPHA-BHC	<	0.2000000	93.8	0.213219616
BETA-BHC	<	0.2000000	93.8	0.213219616
DELTA-BHC	<	0.2000000	93.8	0.213219616
GAMMA-BHC	<	0.2000000	93.8	0.213219616
DDD	<	0.2000000	93.8	0.213219616
DDE	<	0.2000000	93.8	0.213219616
DDT	<	0.2000000	93.8	0.213219616
DIELDRIN	<	0.2000000	93.8	0.213219616
ENDRIN	<	0.2000000	93.8	0.213219616
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616
ENDRIN KETONE	<	0.2000000	93.8	0.213219616
ENDOSULFAN I	<	0.2000000	93.8	0.213219616
ENDOSULFAN II	<	0.2000000	93.8	0.213219616
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616
HEPTACHLOR	<	0.2000000	93.8	0.213219616
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616
METHOXYCHLOR	<	0.2000000	93.8	0.213219616
AROCLOR 1016	<	3.0000000	93.8	3.198294243
AROCLOR 1221	<	3.0000000	93.8	3.198294243
AROCLOR 1232	<	3.0000000	93.8	3.198294243
AROCLOR 1242	<	3.0000000	93.8	3.198294243
AROCLOR 1248	<	3.0000000	93.8	3.198294243
AROCLOR 1254	<	3.0000000	93.8	3.198294243
AROCLOR 1260	<	3.0000000	93.8	3.198294243

	% RECOVERY
TCMX RECOVERY	68.0
DCBP RECOVERY	81.6

* CONC. A = Concentration value from Turbochrom report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)

PUF TUBE ANALYSIS WORKSHEET

SAMPLE #
2007003731 PUF BLANK

Sample efficiency represents an average of the PPP individual components from 1996 impinger efficienc evaluations for CHEEC air study. (Due to short turnaround and lack of apparatus a current SE was not d Extraction efficiencies are determined from Aroclor 1248 Soil Spike spiked onto PUF (PPUFS2003A).

ANALYTE	SIGN	CONC. A * (ug/sample)	EXT. EFF. (%)	CONC. B ** (ug/sample)
ALDRIN	<	0.2000000	93.8	0.213219616
ALPHA-BHC	<	0.2000000	93.8	0.213219616
BETA-BHC	<	0.2000000	93.8	0.213219616
DELTA-BHC	<	0.2000000	93.8	0.213219616
GAMMA-BHC	<	0.2000000	93.8	0.213219616
DDD	<	0.2000000	93.8	0.213219616
DDE	<	0.2000000	93.8	0.213219616
DDT	<	0.2000000	93.8	0.213219616
DIELDRIN	<	0.2000000	93.8	0.213219616
ENDRIN	<	0.2000000	93.8	0.213219616
ENDRIN ALDEHYDE	<	0.2000000	93.8	0.213219616
ENDRIN KETONE	<	0.2000000	93.8	0.213219616
ENDOSULFAN I	<	0.2000000	93.8	0.213219616
ENDOSULFAN II	<	0.2000000	93.8	0.213219616
ENDOSULFAN SULFATE	<	0.2000000	93.8	0.213219616
HEPTACHLOR	<	0.2000000	93.8	0.213219616
HEPTACHLOR EPOXIDE	<	0.2000000	93.8	0.213219616
METHOXYCHLOR	<	0.2000000	93.8	0.213219616
AROCLOR 1016	<	3.0000000	93.8	3.198294243
AROCLOR 1221	<	3.0000000	93.8	3.198294243
AROCLOR 1232	<	3.0000000	93.8	3.198294243
AROCLOR 1242	<	3.0000000	93.8	3.198294243
AROCLOR 1248	<	3.0000000	93.8	3.198294243
AROCLOR 1254	<	3.0000000	93.8	3.198294243
AROCLOR 1260	<	3.0000000	93.8	3.198294243

	% RECOVERY
TCMX RECOVERY	68.0
DCBP RECOVERY	81.6

* CONC. A = Concentration value from Turbochrom report
** CONC. B = Concentration after correction for the extraction efficiency (EXT. EFF.)

Soil

$$\frac{10\ ug}{L} \times \frac{15\ ml}{30\ g} \times \frac{1000\ g}{1\ kg} \times \frac{1\ L}{1000\ ml} = \frac{ug}{kg} \quad \frac{mg}{1000\ ug} = \frac{mg}{kg}$$

$= .005\ \frac{mg}{kg}$

Water

$$\frac{10\ ug}{L} \times \frac{3\ ml}{1000\ ml} \times \frac{1\ L}{1000\ g} = \frac{10\ ug}{ml} \quad \frac{1000\ ml}{L} = \frac{ug}{L}$$

$= .03\ \frac{ug}{L}$

Swab

$$\frac{10\ ug}{L} \times \frac{15\ ml}{1000\ ml} \times \frac{L}{1000\ ml} = 0.15\ \frac{ug}{L} = .00015\ \frac{ng}{sample}$$

PUF PUF

$$\frac{200\ ug}{L} \times 15\ ml \times \frac{L}{1000\ ml} = 3\ ug/smp$$

PPP PUF

$$\frac{10\ ug}{L} \times 15\ ml \times \frac{L}{1000\ ml} = 0.15\ ug/smp \quad (= <0.2)$$

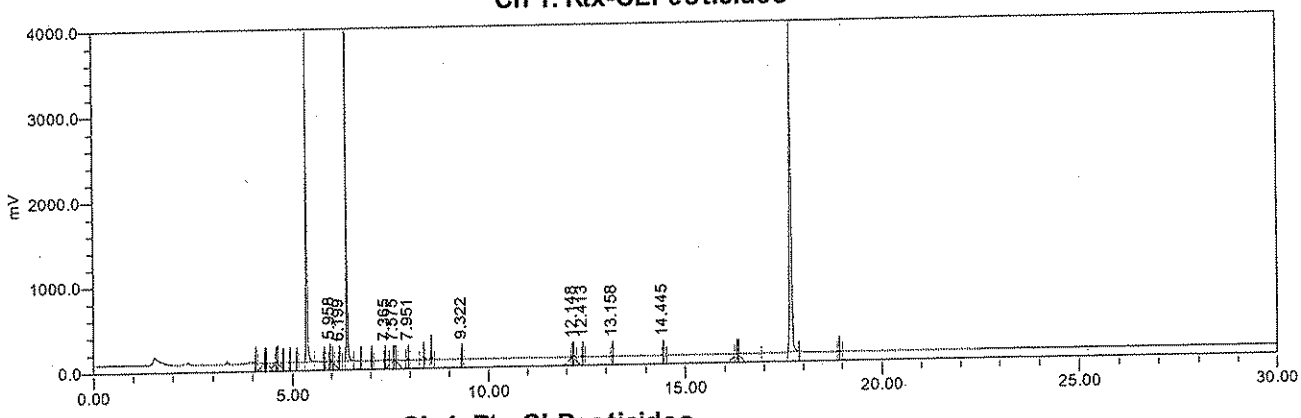
UK 2/9/07

University of Iowa
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003721_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 9:29:35 AM CST
Vial:	19	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4182	Date Processed:	2/9/2007 2:33:21 PM CST
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

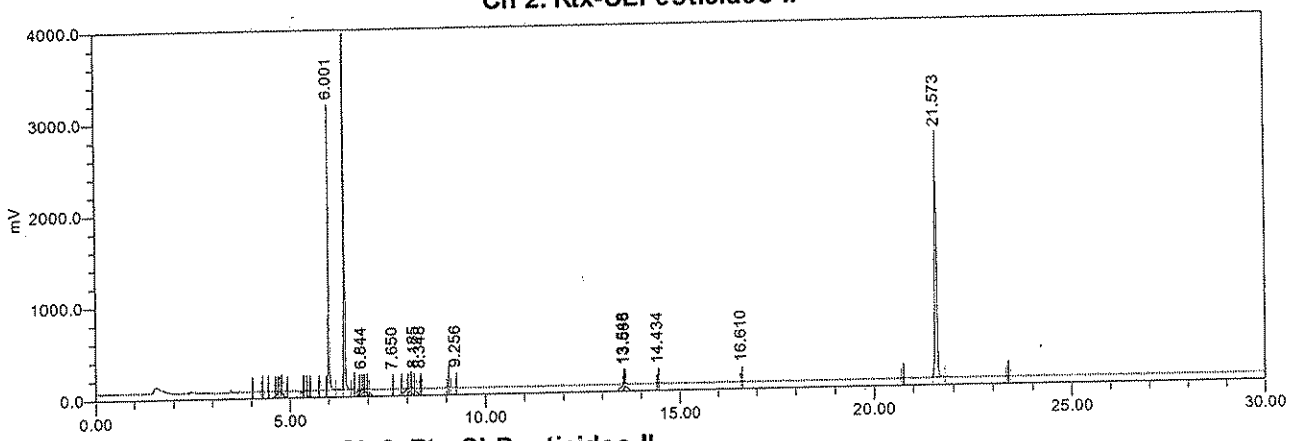


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.357		6345	173.8932	5.2167973
2	1016-1	5.958		82		
3	1016-2	6.199		37		
4	IS:DBOB	6.381		13822	0.5000	0.0150000
5	1016-3	7.365		15		
6	1016-4	7.575		1	34.8997	1.0469915
7	1016-5	7.951		26	27.6873	0.8306188
8	1016-6	9.322		16		
9	1260-1	10.356				
10	1260-2	10.965				
11	1260-3	12.148		8	35.0521	1.0515619
12	1260-4	12.413		25	29.7697	0.8930908
13	1260-5	13.158		9	19.1571	0.5747143
14	1260-6	14.445		8	47.7827	1.4334804
15	SS:DCBP	17.680		12911	400.2613	12.0078401

Sample Name:	2007003721_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 9:29:35 AM CST
Vial:	19	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4182	Date Processed:	2/9/2007 2:33:21 PM CST
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	6.001		4756	176.6788	5.3003642
2	IS:DBOB	6.404		9902	0.5000	0.0150000
3	1016-1	6.844		19		
4	1016-2	7.650		2		
5	1016-4	8.185		18		
6	1016-3	8.348		11		
7	1016-5	9.256		18		
8	1260-2	13.548		4		
9	1260-3	13.586		6	9.6013	0.2880398
10	1260-4	14.434		14		
11	1260-6	16.610		13	15.2809	0.4584259
12	SS:DCBP	21.573		8636	396.0445	11.8813354

Surrogates

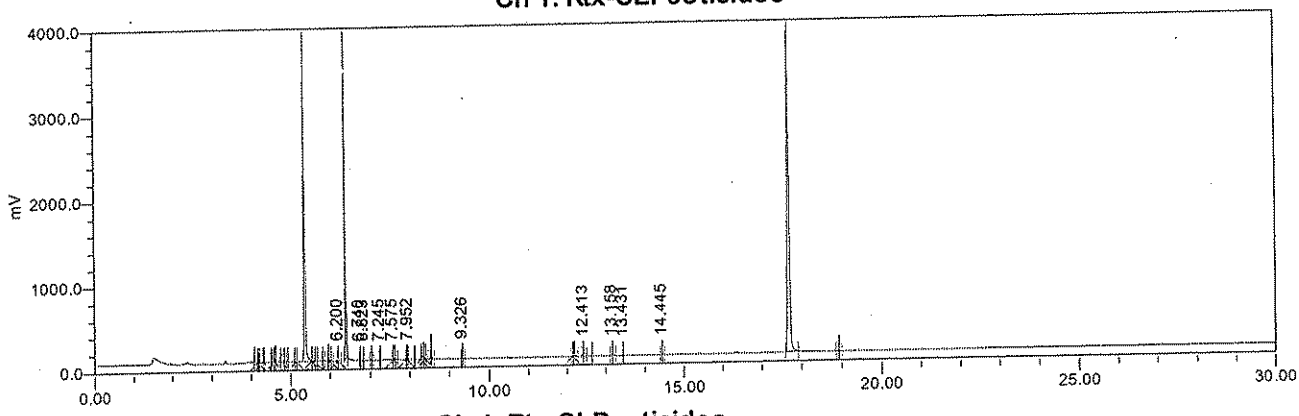
	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.2167973	69.56
2	SS:TCMX	7.500	5.3003642	70.67
3	SS:DCBP	15.000	12.0078401	80.05
4	SS:DCBP	15.000	11.8813354	79.21

University of Iowa
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003721_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 9:29:35 AM CST
Vial:	19	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4182	Date Processed:	2/9/2007 2:41:16 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

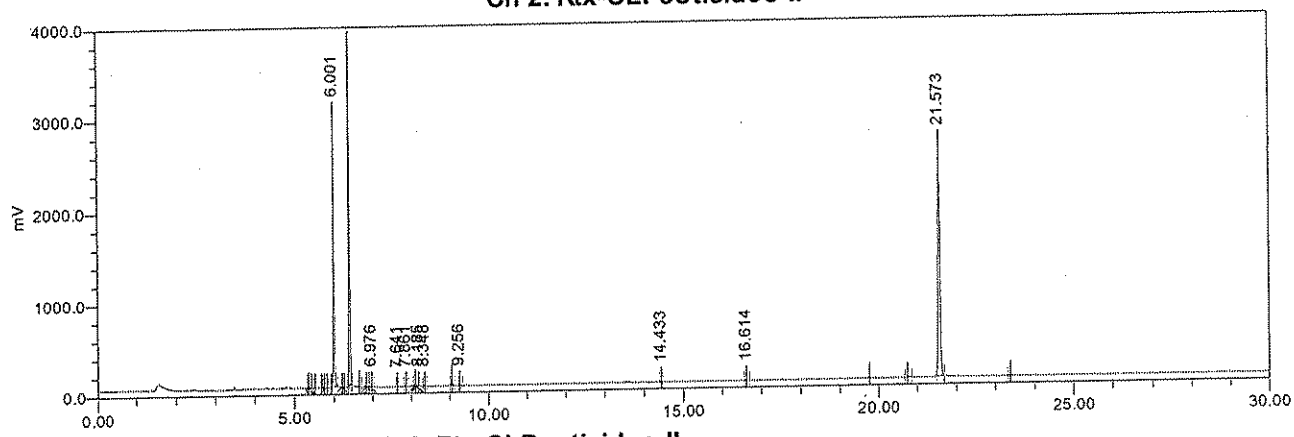


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.357		6376	180.5236	5.4157082
2	Alpha-BHC	6.200		25	5.9442	0.1783269
3	IS:DBOB	6.381		13535	0.5000	0.0150000
4	Gamma-BHC	6.740		3	5.3453	0.1603599
5	Beta-BHC	6.823		1	3.2117	0.0963513
6	Delta-BHC	7.245		3	12.1652	0.3649548
7	Heptachlor	7.575		2	2.4655	0.0739649
8	Aldrin	7.952		21	2.0770	0.0623113
9	Heptachlor epoxide	9.092				
10	gamma-Chlordane	9.326		19	3.7707	0.1131210
11	alpha-Chlordane	9.582				
12	DDE	9.757				
13	Endosulfan I	9.853				
14	Dieldrin	10.348				
15	Endrin	10.852				
16	DDD	11.046				
17	Endosulfan II	11.373				
18	DDT	11.697				
19	Endrin Aldehyde	12.413		36	1.8378	0.0551333
20	Methoxychlor	13.158		26	3.7596	0.1127867
21	Endosulfan sulfate	13.431		0	6.1768	0.1853035
22	Endrin ketone	14.445		12	1.3197	0.0395913
23	SS:DCBP	17.680		12945	401.3929	12.0417863

Sample Name:	2007003721_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 9:29:35 AM CST
Vial:	19	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4182	Date Processed:	2/9/2007 2:41:16 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	6.001		4652	177.3639	5.3209173
2	IS:DBOB	6.404		9689	0.5000	0.0150000
3	Alpha-BHC	6.976		28	6.4421	0.1932632
4	Gamma-BHC	7.641		4	5.6355	0.1690659
5	Beta-BHC	7.861		14	2.5203	0.0756102
6	Heptachlor	8.185		16	1.1633	0.0348986
7	Delta-BHC	8.348		15	12.2041	0.3661227
8	Aldrin	9.256		21	2.7386	0.0821584
9	Endrin Aldehyde	14.433		16	1.4697	0.0440907
10	Endrin ketone	16.614		22	1.6975	0.0509246
11	SS:DCBP	21.573		8523	389.3358	11.6800746

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.4157082	72.21
2	SS:TCMX	7.500	5.3209173	70.95
3	SS:DCBP	15.000	12.0417863	80.28
4	SS:DCBP	15.000	11.6800746	77.87

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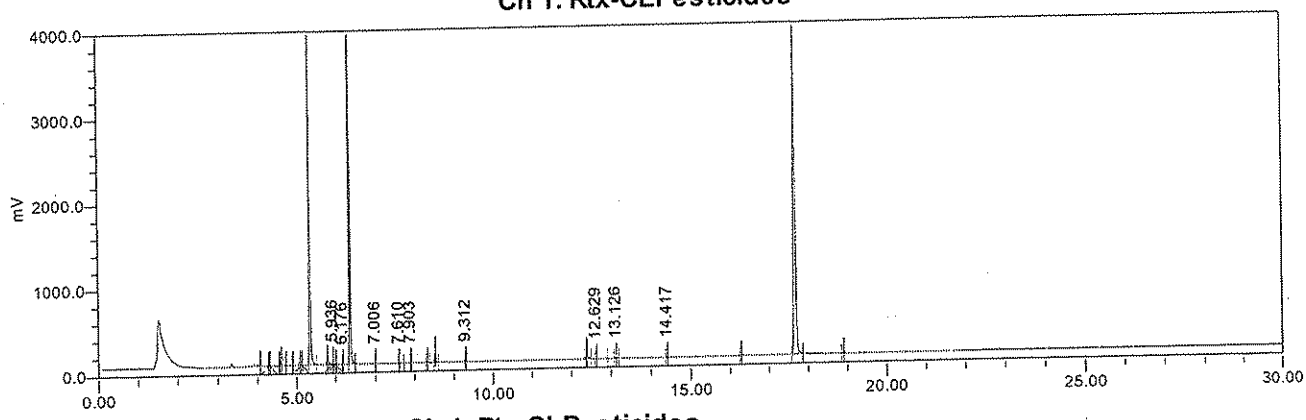
QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003723_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:07:52 AM CST
Vial:	20	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4186	Date Processed:	2/9/2007 2:33:26 PM CST
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

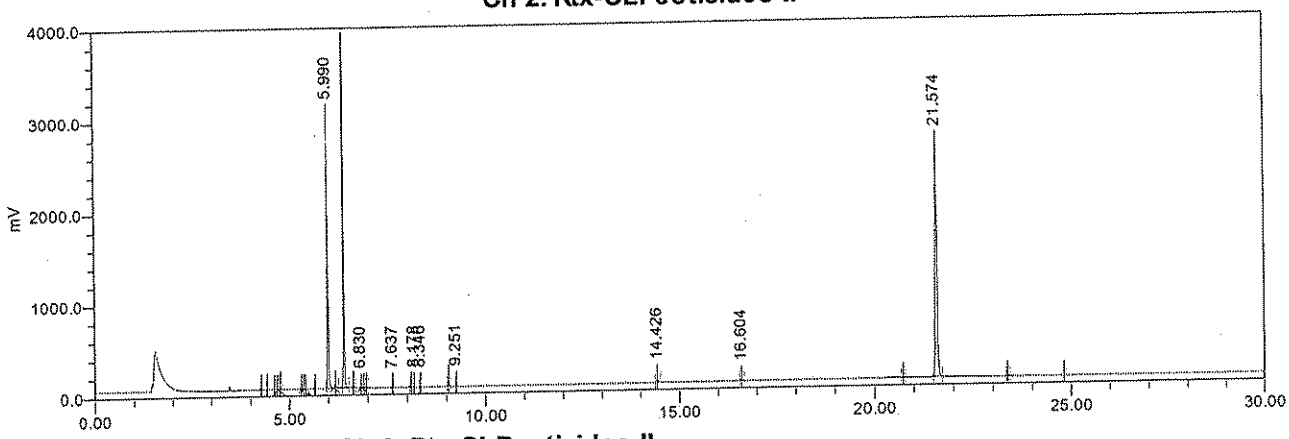


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.339		5934	167.1977	5.0159317
2	1016-1	5.936		74		
3	1016-2	6.176		14		
4	IS:DBOB	6.363		13445	0.5000	0.0150000
5	1016-3	7.006		17		
6	1016-4	7.610		10	44.5779	1.3373373
7	1016-5	7.903		4	5.5687	0.1670624
8	1016-6	9.312		17		
9	1260-1	10.356				
10	1260-2	10.965				
11	1260-3	11.624				
12	1260-4	12.629		31	32.7165	0.9814949
13	1260-5	13.126		33	24.3596	0.7307870
14	1260-6	14.417		12	49.0508	1.4715235
15	SS:DCBP	17.670		13106	417.6981	12.5309440

Sample Name:	2007003723_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:07:52 AM CST
Vial:	20	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4186	Date Processed:	2/9/2007 2:33:26 PM CST
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.990		4448	171.7827	5.1534796
2	IS:DBOB	6.393		9525	0.5000	0.0150000
3	1016-1	6.830		2		
4	1016-2	7.637		3		
5	1016-4	8.178		3		
6	1016-3	8.346		6		
7	1016-5	9.251		16		
8	1260-4	14.426		127	68.3763	2.0512889
9	1260-6	16.604		24	18.6567	0.5597005
10	SS:DCBP	21.574		8702	414.8642	12.4459273

Surrogates

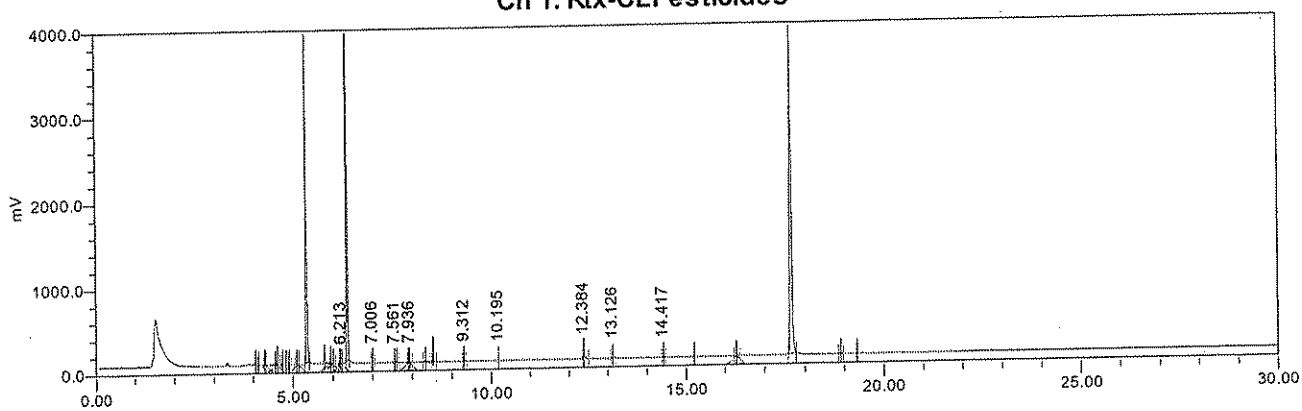
	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.0159317	66.88
2	SS:TCMX	7.500	5.1534796	68.71
3	SS:DCBP	15.000	12.5309440	83.54
4	SS:DCBP	15.000	12.4459273	82.97

University of Iowa
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003723_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:07:52 AM CST
Vial:	20	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4186	Date Processed:	2/9/2007 2:41:18 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

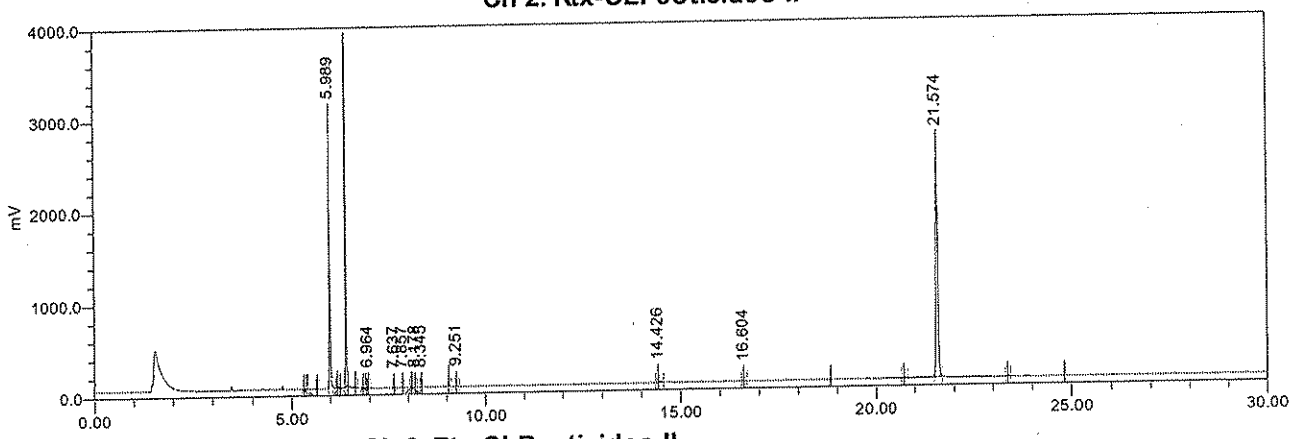


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.339		5730	166.0803	4.9824077
2	Alpha-BHC	6.213		5	5.6901	0.1707024
3	IS:DBOB	6.363		13220	0.5000	0.0150000
4	Gamma-BHC	6.723				
5	Beta-BHC	7.006		18	3.8207	0.1146204
6	Delta-BHC	7.177				
7	Heptachlor	7.561		0	2.4384	0.0731515
8	Aldrin	7.936		9	1.8876	0.0566265
9	Heptachlor epoxide	9.092				
10	gamma-Chlordane	9.312		20	3.8049	0.1141456
11	alpha-Chlordane	9.582				
12	DDE	9.757				
13	Endosulfan I	9.853				
14	Dieldrin	10.195		0	3.2489	0.0974675
15	Endrin	10.852				
16	DDD	11.046				
17	Endosulfan II	11.373				
18	DDT	11.697				
19	Endrin Aldehyde	12.384		231	6.6778	0.2003328
20	Methoxychlor	13.126		41	4.4561	0.1336838
21	Endosulfan sulfate	13.582				
22	Endrin ketone	14.417		18	1.4163	0.0424899
23	SS:DCBP	17.670		12937	410.6979	12.3209379

Sample Name:	2007003723_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:07:52 AM CST
Vial:	20	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4186	Date Processed:	2/9/2007 2:41:18 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.989		4336	170.8620	5.1258604
2	IS:DBOB	6.393		9373	0.5000	0.0150000
3	Alpha-BHC	6.964		14	6.2011	0.1860344
4	Gamma-BHC	7.637		4	5.6419	0.1692567
5	Beta-BHC	7.857		6	2.1421	0.0642626
6	Heptachlor	8.178		6	0.9542	0.0286270
7	Delta-BHC	8.345		8	12.0374	0.3611223
8	Aldrin	9.251		18	2.7016	0.0810488
9	Endrin Aldehyde	14.426		145	6.2456	0.1873681
10	Endrin ketone	16.604		31	1.9554	0.0586615
11	SS:DCBP	21.574		8644	408.2186	12.2465571

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	4.9824077	66.43
2	SS:TCMX	7.500	5.1258604	68.34
3	SS:DCBP	15.000	12.3209379	82.14
4	SS:DCBP	15.000	12.2465571	81.64

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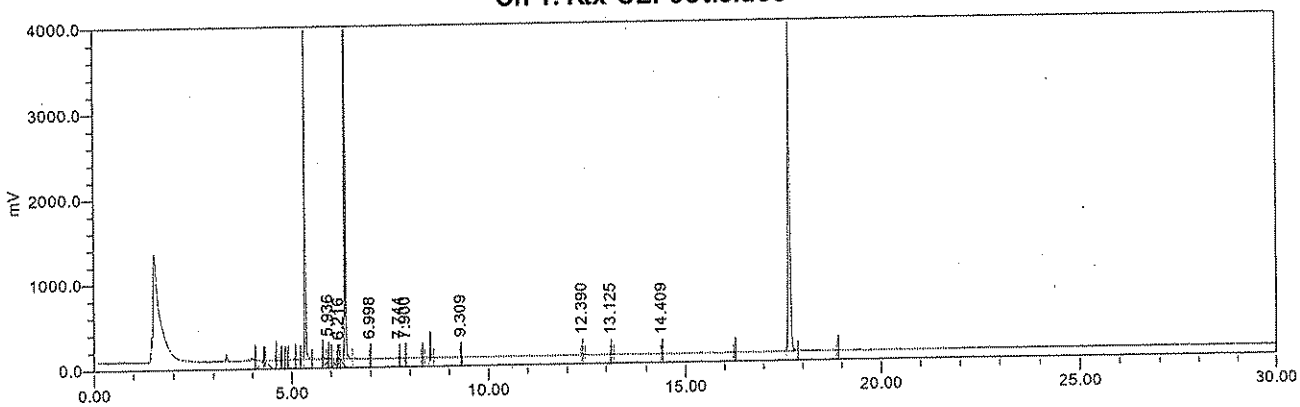
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003725_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:46:14 AM CST
Vial:	21	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4190	Date Processed:	2/9/2007 2:33:31 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

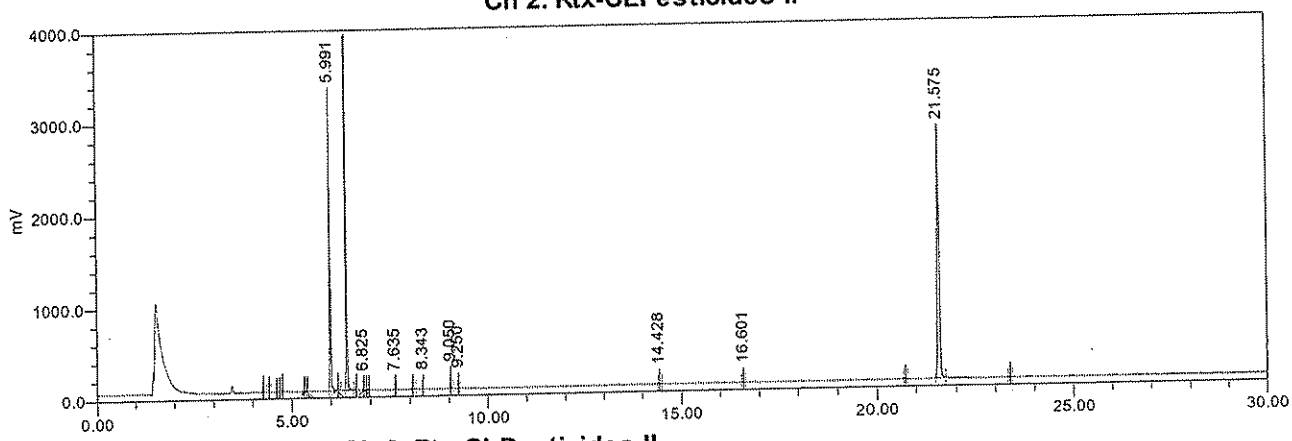


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.339		6347	168.7074	5.0612214
2	1016-1	5.936		74		
3	1016-2	6.216		5		
4	IS:DBOB	6.363		14252	0.5000	0.0150000
5	1016-3	6.998		18		
6	1016-4	7.744		2	35.8468	1.0754049
7	1016-5	7.900		6	7.4259	0.2227770
8	1016-6	9.309		23		
9	1260-1	10.356				
10	1260-2	10.965				
11	1260-3	11.624				
12	1260-4	12.390		55	43.0771	1.2923128
13	1260-5	13.125		31	23.5850	0.7075498
14	1260-6	14.409		9	47.9026	1.4370782
15	SS:DCBP	17.667		13294	399.6966	11.9908979

Sample Name:	2007003725_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:46:14 AM CST
Vial:	21	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4190	Date Processed:	2/9/2007 2:33:31 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.991		4770	173.4959	5.2048769
2	IS:DBOB	6.394		10114	0.5000	0.0150000
3	1016-1	6.825		2		
4	1016-2	7.635		2		
5	1016-3	8.343		9		
6	1016-4	9.050		154	124.3085	3.7292563
7	1016-5	9.250		30	2.0090	0.0602689
8	1260-4	14.428		33		
9	1260-6	16.601		21	17.3283	0.5198485
10	SS:DCBP	21.575		8825	396.2229	11.8866873

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.0612214	67.48
2	SS:TCMX	7.500	5.2048769	69.40
3	SS:DCBP	15.000	11.9908979	79.94
4	SS:DCBP	15.000	11.8866873	79.24

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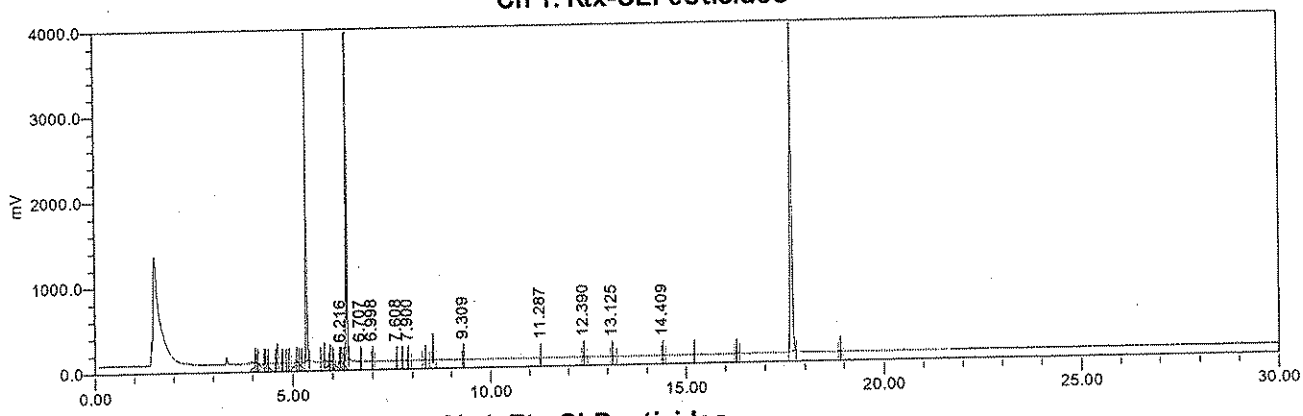
QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003725_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:46:14 AM CST
Vial:	21	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4190	Date Processed:	2/9/2007 2:41:20 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

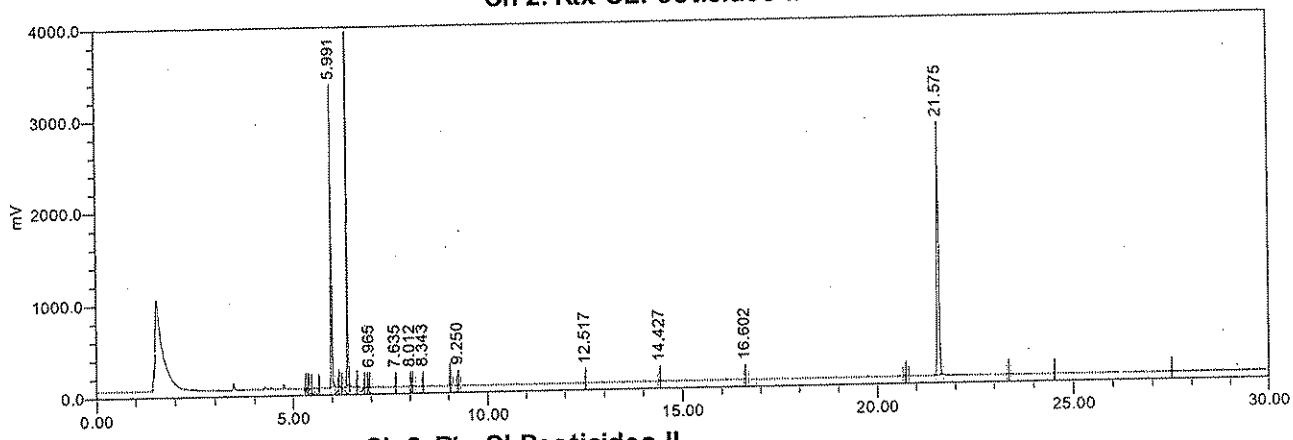


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.339		6131	168.1675	5.0450251
2	Alpha-BHC	6.216		5	5.6856	0.1705684
3	IS:DBOB	6.363		13971	0.5000	0.0150000
4	Gamma-BHC	6.707		3	5.3311	0.1599344
5	Beta-BHC	6.998		18	3.7931	0.1137930
6	Delta-BHC	7.177				
7	Heptachlor	7.608		2	2.4628	0.0738841
8	Aldrin	7.900		13	1.9444	0.0583324
9	Heptachlor epoxide	9.092				
10	gamma-Chlordane	9.309		24	3.8382	0.1151464
11	alpha-Chlordane	9.582				
12	DDE	9.757				
13	Endosulfan I	9.853				
14	Dieldrin	10.348				
15	Endrin	10.852				
16	DDD	11.046				
17	Endosulfan II	11.287		2	2.1575	0.0647249
18	DDT	11.697				
19	Endrin Aldehyde	12.390		64	2.4737	0.0742113
20	Methoxychlor	13.125		44	4.4993	0.1349778
21	Endosulfan sulfate	13.582				
22	Endrin ketone	14.409		15	1.3516	0.0405488
23	SS:DCBP	17.667		13116	394.0065	11.8201951

Sample Name:	2007003725_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 10:46:14 AM CST
Vial:	21	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4190	Date Processed:	2/9/2007 2:41:20 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.991		4637	172.9555	5.1886662
2	IS:DBOB	6.394		9903	0.5000	0.0150000
3	Alpha-BHC	6.965		9	6.0874	0.1826221
4	Gamma-BHC	7.635		3	5.6184	0.1685528
5	Beta-BHC	8.012		3	1.9824	0.0594734
6	Delta-BHC	8.343		10	12.0708	0.3621240
7	Aldrin	9.250		33	3.0022	0.0900672
8	Endrin	12.517		0	4.3124	0.1293725
9	Endrin Aldehyde	14.427		33	2.0521	0.0615636
10	Endrin ketone	16.602		29	1.8661	0.0559821
11	SS:DCBP	21.575		8762	391.6269	11.7488072

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.0450251	67.27
2	SS:TCMX	7.500	5.1886662	69.18
3	SS:DCBP	15.000	11.8201951	78.80
4	SS:DCBP	15.000	11.7488072	78.33

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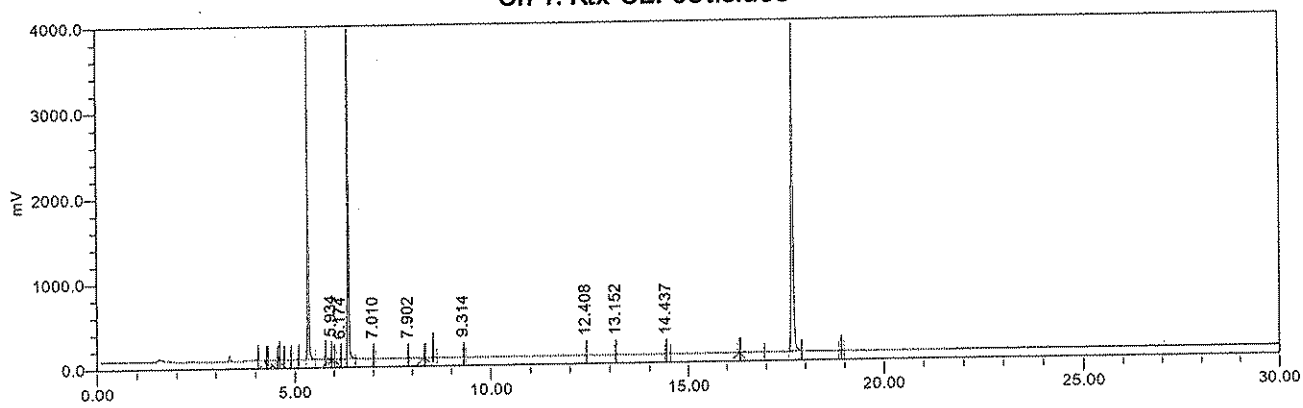
QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003727_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 11:24:35 AM CST
Vial:	22	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4194	Date Processed:	2/9/2007 2:33:36 PM CST
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

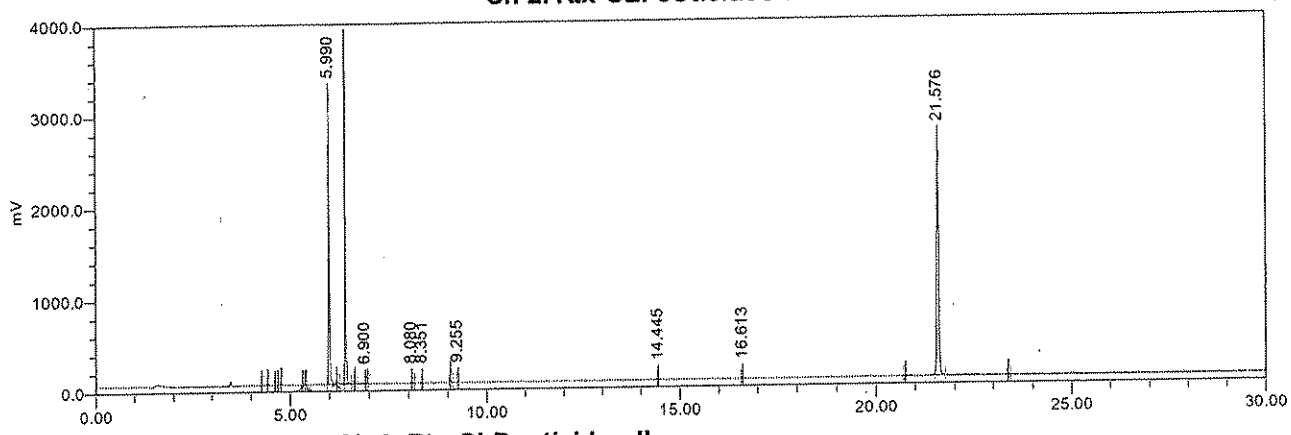


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.337		6517	174.6716	5.2401492
2	1016-1	5.934		83		
3	1016-2	6.174		17		
4	IS:DBOB	6.361		14133	0.5000	0.0150000
5	1016-3	7.010		17		
6	1016-4	7.510				
7	1016-5	7.902		6	6.9262	0.2077845
8	1016-6	9.314		20		
9	1260-1	10.356				
10	1260-2	10.965				
11	1260-3	11.624				
12	1260-4	12.408		10	22.5444	0.6763313
13	1260-5	13.152		12	19.7873	0.5936189
14	1260-6	14.437		10	48.1832	1.4454954
15	SS:DCBP	17.671		13357	405.0033	12.1500995

Sample Name:	2007003727_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 11:24:35 AM CST
Vial:	22	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4194	Date Processed:	2/9/2007 2:33:36 PM CST
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.990		4887	179.7385	5.3921555
2	IS:DBOB	6.393		10001	0.5000	0.0150000
3	1016-1	6.900		7		
4	1016-4	8.080		22		
5	1016-3	8.351		7		
6	1016-5	9.255		19		
7	1260-4	14.445		8		
8	1260-6	16.613		13	15.0584	0.4517616
9	SS:DCBP	21.576		8923	405.1581	12.1547433

Surrogates

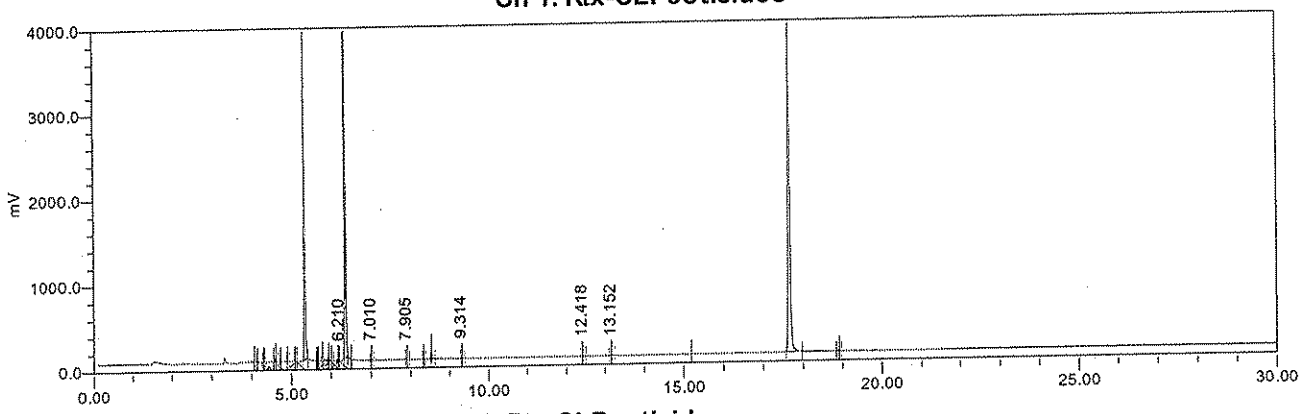
	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.2401492	69.87
2	SS:TCMX	7.500	5.3921555	71.90
3	SS:DCBP	15.000	12.1500995	81.00
4	SS:DCBP	15.000	12.1547433	81.03

University of Iowa
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003727_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 11:24:35 AM CST
Vial:	22	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4194	Date Processed:	2/9/2007 2:41:21 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

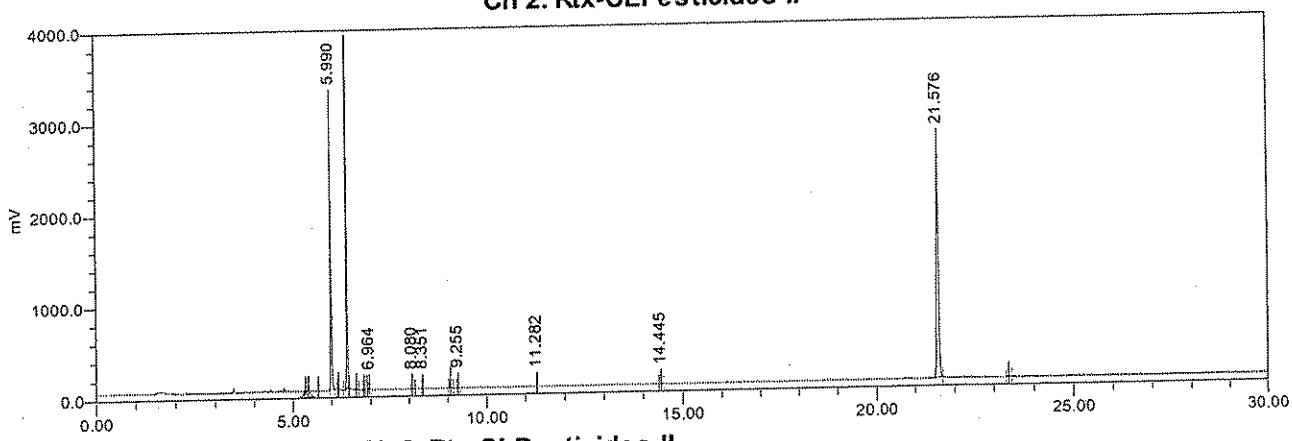


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.337		6285	174.1024	5.2230726
2	Alpha-BHC	6.210		5	5.6898	0.1706947
3	IS:DBOB	6.361		13832	0.5000	0.0150000
4	Gamma-BHC	6.723				
5	Beta-BHC	7.010		17	3.7524	0.1125723
6	Delta-BHC	7.177				
7	Heptachlor	7.497				
8	Aldrin	7.905		12	1.9304	0.0579118
9	Heptachlor epoxide	9.092				
10	gamma-Chlordane	9.314		26	3.8728	0.1161833
11	alpha-Chlordane	9.582				
12	DDE	9.757				
13	Endosulfan I	9.853				
14	Dieldrin	10.348				
15	Endrin	10.852				
16	DDD	11.046				
17	Endosulfan II	11.373				
18	DDT	11.697				
19	Endrin Aldehyde	12.418		28	1.6348	0.0490429
20	Methoxychlor	13.152		28	3.8239	0.1147181
21	Endosulfan sulfate	13.582				
22	Endrin ketone	14.364				
23	SS:DCBP	17.671		13428	407.4263	12.2227894

Sample Name:	2007003727_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 11:24:35 AM CST
Vial:	22	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4194	Date Processed:	2/9/2007 2:41:21 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.990		4775	179.7380	5.3921406
2	IS:DBOB	6.393		9813	0.5000	0.0150000
3	Alpha-BHC	6.964		14	6.1857	0.1855716
4	Beta-BHC	8.080		23	2.9660	0.0889799
5	Delta-BHC	8.351		10	12.0614	0.3618411
6	Aldrin	9.255		21	2.7475	0.0824239
7	Endosulfan I	11.282		0	2.0170	0.0605110
8	Endrin Aldehyde	14.445		14	1.3886	0.0416590
9	SS:DCBP	21.576		8823	397.9476	11.9384292

Surrogates

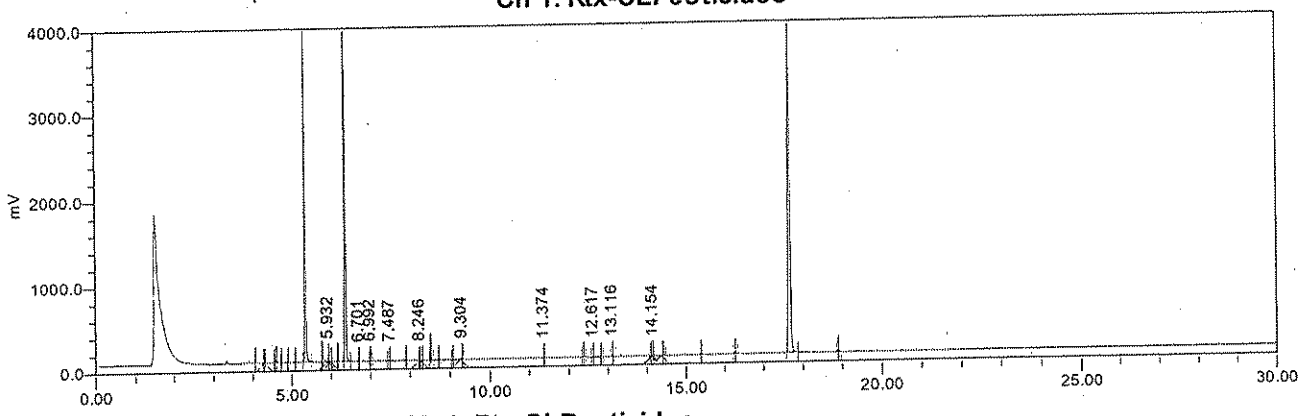
	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.2230726	69.64
2	SS:TCMX	7.500	5.3921406	71.90
3	SS:DCBP	15.000	12.2227894	81.49
4	SS:DCBP	15.000	11.9384292	79.59

University of Iowa
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003729_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:02:55 PM CST
Vial:	23	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4198	Date Processed:	2/9/2007 2:33:40 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

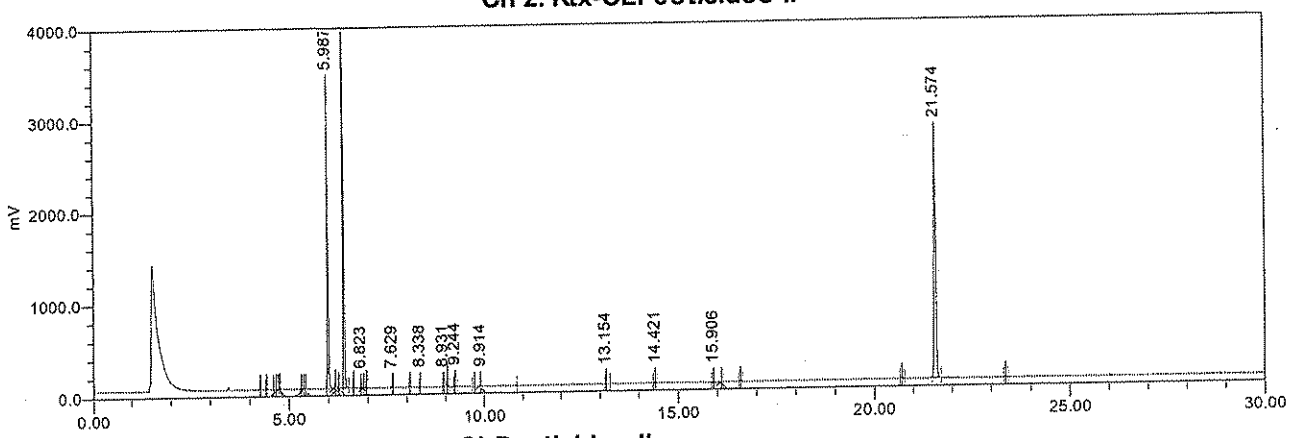


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.336		6370	179.1920	5.3757601
2	1016-1	5.932		92		
3	IS:DBOB	6.359		13467	0.5000	0.0150000
4	1016-2	6.701		4		
5	1016-3	6.992		19		
6	1016-4	7.487		65	106.2987	3.1889597
7	1016-5	8.246		2	3.5491	0.1064734
8	1016-6	9.304		46	3.6360	0.1090793
9	1260-1	10.356				
10	1260-2	10.965				
11	1260-3	11.374		4	33.7390	1.0121689
12	1260-4	12.617		73	53.0254	1.5907622
13	1260-5	13.116		40	25.8560	0.7756801
14	1260-6	14.154		12	49.3435	1.4803060
15	SS:DCBP	17.664		13432	427.4104	12.8223118

Sample Name:	2007003729_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:02:55 PM CST
Vial:	23	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4198	Date Processed:	2/9/2007 2:33:40 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.987		4794	182.0581	5.4617428
2	IS:DBOB	6.390		9687	0.5000	0.0150000
3	1016-1	6.823		3		
4	1016-2	7.629		3		
5	1016-3	8.338		7		
6	1016-4	8.931		8		
7	1016-5	9.244		38	14.0137	0.4204113
8	1016-6	9.914		134	171.6567	5.1497004
9	1260-2	13.154		10		
10	1260-4	14.421		27		
11	1260-6	15.906		41	23.3180	0.6995413
12	SS:DCBP	21.574		8863	415.4740	12.4642194

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.3757601	71.68
2	SS:TCMX	7.500	5.4617428	72.82
3	SS:DCBP	15.000	12.8223118	85.48
4	SS:DCBP	15.000	12.4642194	83.09

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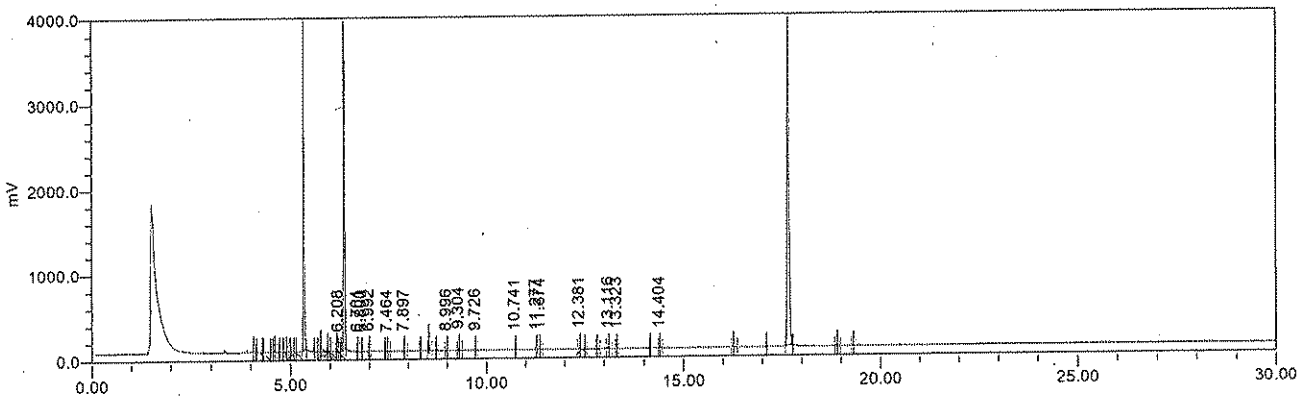
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003729_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:02:55 PM CST
Vial:	23	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4198	Date Processed:	2/9/2007 2:41:23 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

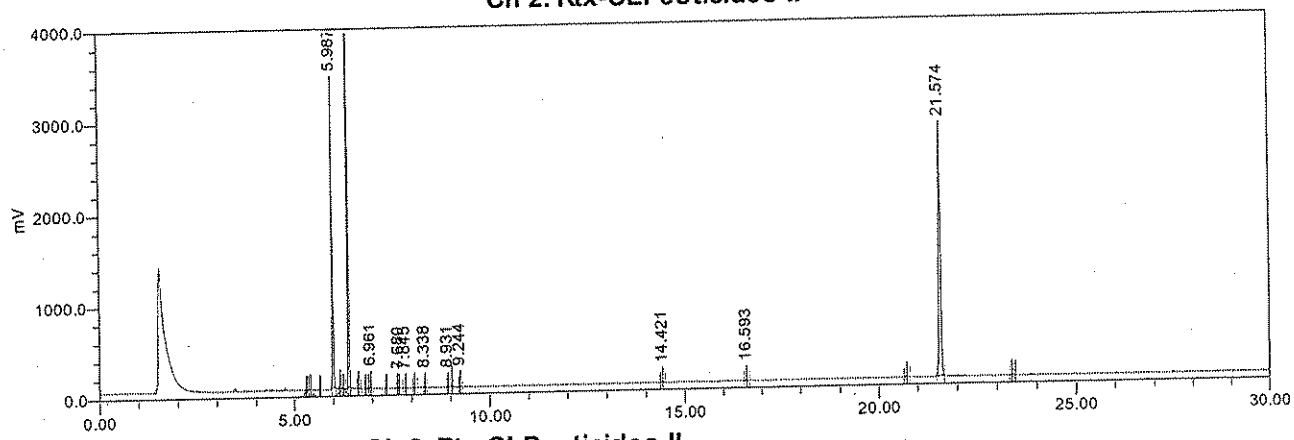


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.336		6183	178.3862	5.3515846
2	Alpha-BHC	6.208		5	5.6920	0.1707586
3	IS:DBOB	6.359		13281	0.5000	0.0150000
4	Gamma-BHC	6.701		5	5.3664	0.1609929
5	Beta-BHC	6.800		3	3.2802	0.0984068
6	Delta-BHC	6.992		19	12.4657	0.3739717
7	Heptachlor	7.464		13	2.6488	0.0794631
8	Aldrin	7.897		13	1.9503	0.0585086
9	Heptachlor epoxide	8.996		14	1.5273	0.0458179
10	gamma-Chlordane	9.304		49	4.2729	0.1281866
11	alpha-Chlordane	9.582				
12	DDE	9.726		3	5.1081	0.1532434
13	Endosulfan I	9.853				
14	Dieldrin	10.348				
15	Endrin	10.741		0	3.3763	0.1012896
16	DDD	11.277		3	5.5071	0.1652123
17	Endosulfan II	11.374		12	2.3414	0.0702427
18	DDT	11.697				
19	Endrin Aldehyde	12.381		68	2.6410	0.0792296
20	Methoxychlor	13.116		46	4.6888	0.1406648
21	Endosulfan sulfate	13.323		8	6.4109	0.1923285
22	Endrin ketone	14.404		20	1.4640	0.0439190
23	SS:DCBP	17.664		13239	418.3713	12.5511397

Sample Name:	2007003729_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:02:55 PM CST
Vial:	23	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4198	Date Processed:	2/9/2007 2:41:23 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.987		4672	180.3055	5.4091635
2	IS:DBOB	6.390		9570	0.5000	0.0150000
3	Alpha-BHC	6.961		66	7.1189	0.2135664
4	Gamma-BHC	7.680		0	5.5610	0.1668292
5	Beta-BHC	7.845		10	2.3280	0.0698413
6	Delta-BHC	8.338		10	12.0742	0.3622254
7	Heptachlor	8.931		10	1.0332	0.0309947
8	Aldrin	9.244		39	3.1614	0.0948408
9	Endrin Aldehyde	14.421		30	1.9521	0.0585617
10	Endrin ketone	16.593		31	1.9440	0.0583192
11	SS:DCBP	21.574		8805	407.2011	12.2160326

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.3515846	71.35
2	SS:TCMX	7.500	5.4091635	72.12
3	SS:DCBP	15.000	12.5511397	83.67
4	SS:DCBP	15.000	12.2160326	81.44

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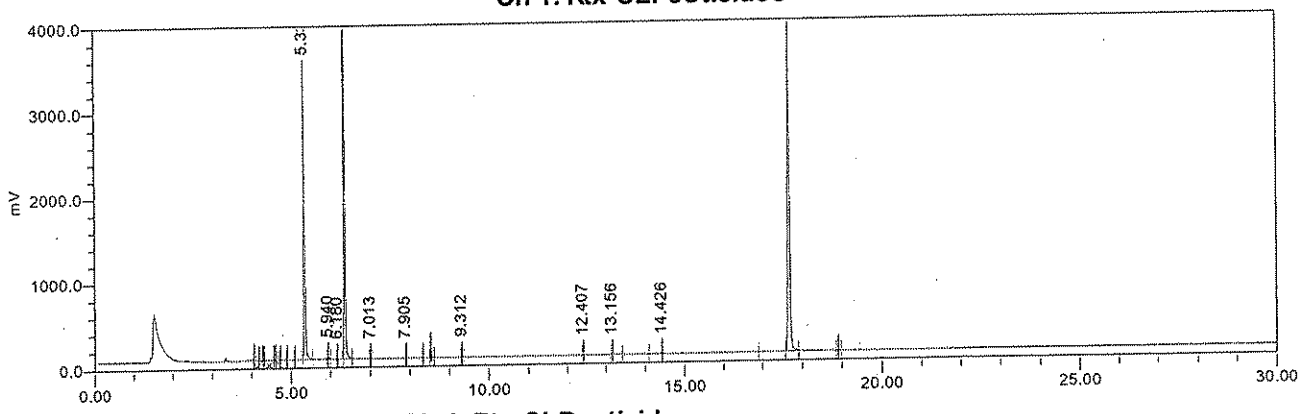
QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003731_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:41:16 PM CST
Vial:	24	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4202	Date Processed:	2/9/2007 2:33:45 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

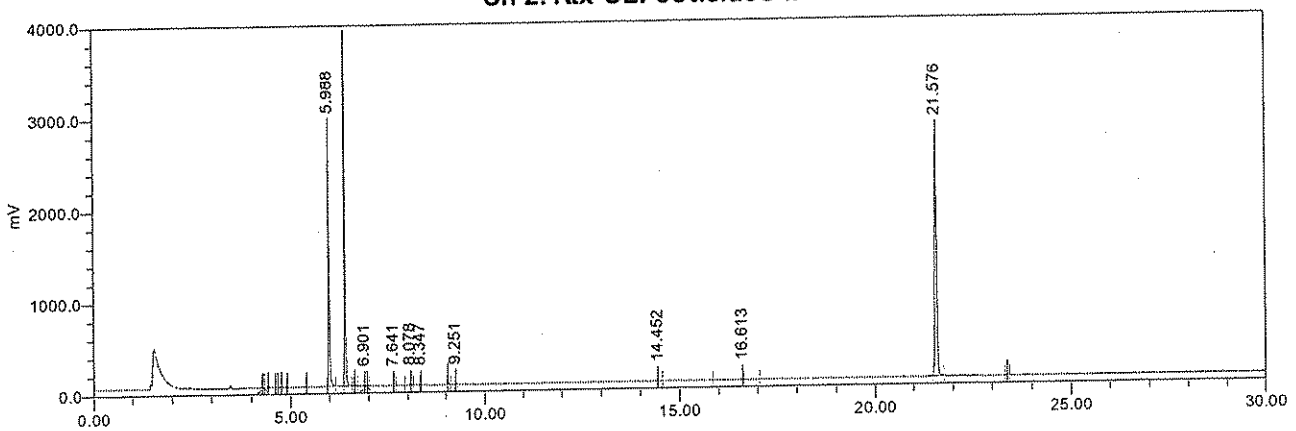


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.337		6253	169.8649	5.0959480
2	1016-1	5.940		58		
3	1016-2	6.180		12		
4	IS:DBOB	6.363		13945	0.5000	0.0150000
5	1016-3	7.013		16		
6	1016-4	7.510				
7	1016-5	7.905		5	6.7773	0.2033197
8	1016-6	9.312		22		
9	1260-1	10.356				
10	1260-2	10.965				
11	1260-3	11.624				
12	1260-4	12.407		9	22.0529	0.6615871
13	1260-5	13.156		22	21.8532	0.6555953
14	1260-6	14.426		222	126.1048	3.7831431
15	SS:DCBP	17.670		13318	409.2428	12.2772845

Sample Name:	2007003731_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:41:16 PM CST
Vial:	24	Processing Method:	1660LINA, 1660LINB
Injection I.D.:	4202	Date Processed:	2/9/2007 2:33:45 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.988		4696	174.6658	5.2399751
2	IS:DBOB	6.392		9889	0.5000	0.0150000
3	1016-1	6.901		6		
4	1016-2	7.641		3		
5	1016-4	8.078		26		
6	1016-3	8.347		7		
7	1016-5	9.251		20		
8	1260-4	14.452		9		
9	1260-6	16.613		95	38.3229	1.1496871
10	SS:DCBP	21.576		8886	408.0247	12.2407403

Surrogates

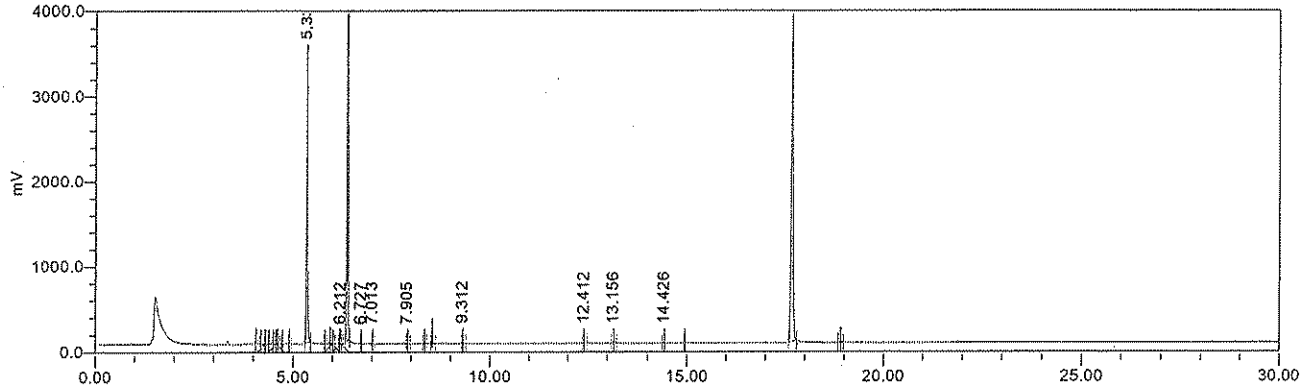
	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.0959480	67.95
2	SS:TCMX	7.500	5.2399751	69.87
3	SS:DCBP	15.000	12.2772845	81.85
4	SS:DCBP	15.000	12.2407403	81.60

University of Iowa
Hygienic Laboratory

QUANTITATION REPORT (AGEC1)
Chlorinated Hydrocarbon Analysis
EPA TO-10A
PUF

Sample Name:	2007003731_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:41:16 PM CST
Vial:	24	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4202	Date Processed:	2/9/2007 2:41:25 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na)	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 1: Rtx-CLPesticides

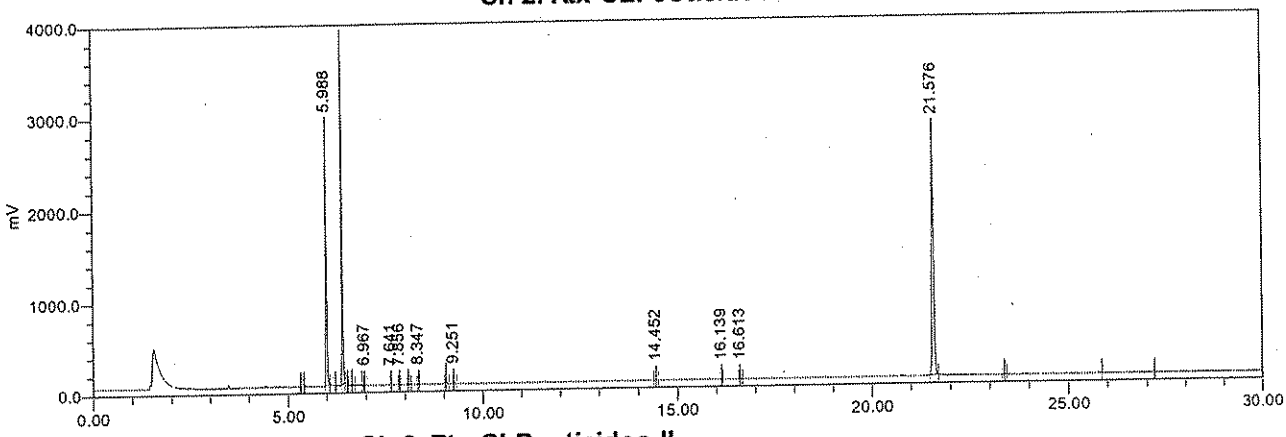


Ch 1: Rtx-CLPesticides

	Name	RT	RF	Area	Raw_Amount	Final_Result (ug/sample)
1	SS:TCMX	5.337		6074	170.6130	5.1183908
2	Alpha-BHC	6.212		6	5.6971	0.1709122
3	IS:DBOB	6.363		13643	0.5000	0.0150000
4	Gamma-BHC	6.727		4	5.3536	0.1606083
5	Beta-BHC	7.013		16	3.7426	0.1122786
6	Delta-BHC	7.177				
7	Heptachlor	7.497				
8	Aldrin	7.905		13	1.9437	0.0583118
9	Heptachlor epoxide	9.092				
10	gamma-Chlordane	9.312		27	3.8923	0.1167701
11	alpha-Chlordane	9.582				
12	DDE	9.757				
13	Endosulfan I	9.853				
14	Dieldrin	10.348				
15	Endrin	10.852				
16	DDD	11.046				
17	Endosulfan II	11.373				
18	DDT	11.697				
19	Endrin Aldehyde	12.412		19	1.4324	0.0429724
20	Methoxychlor	13.156		18	3.4178	0.1025328
21	Endosulfan sulfate	13.582				
22	Endrin ketone	14.426		12	1.3141	0.0394235
23	SS:DCBP	17.670		13098	402.9179	12.0875380

Sample Name:	2007003731_ChemCen_PUF	Acquired By:	vreedy
Sample Type:	Unknown	Date Acquired:	2/9/2007 12:41:16 PM CST
Vial:	24	Processing Method:	PPPLINA, PPPLINB
Injection I.D.:	4202	Date Processed:	2/9/2007 2:41:25 PM CST, 2/9/2007
Injection Volume:	2.00 ul	Sample_Amount (na):	1.000
Run Time:	30.0 Minutes	Final_Ext._Vol. (mL):	15.00
Sample Set Name:	A039Seq	Dilution Factor:	2

Ch 2: Rtx-CLPesticides II



Ch 2: Rtx-CLPesticides II

	Name	RT	RF	Area	Raw_Amount	Final_Result ug/sample)
1	SS:TCMX	5.988		4583	174.6737	5.2402124
2	IS:DBOB	6.392		9691	0.5000	0.0150000
3	Alpha-BHC	6.967		16	6.2231	0.1866941
4	Gamma-BHC	7.641		4	5.6276	0.1688283
5	Beta-BHC	7.856		3	2.0086	0.0602576
6	Delta-BHC	8.347		9	12.0590	0.3617710
7	Aldrin	9.251		22	2.7805	0.0834160
8	Endrin Aldehyde	14.452		11	1.2717	0.0381525
9	Methoxychlor	16.139		5	3.1779	0.0953367
10	Endrin ketone	16.613		11	1.4417	0.0432517
11	SS:DCBP	21.576		8800	401.9203	12.0576095

Surrogates

	Name	Exp. Conc. (mg/smp)	Final_Result (ug/smp)	%
1	SS:TCMX	7.500	5.1183908	68.25
2	SS:TCMX	7.500	5.2402124	69.87
3	SS:DCBP	15.000	12.0875380	80.58
4	SS:DCBP	15.000	12.0576095	80.38

University Hygienic Laboratory

Method:	EPA 6010B
Data File:	D07_026
Analyzed:	2/9/2007
Analyst:	DC
Blank units:	mg/sample

QC data for KC Fire Samples

Element	RBI	RBII	Matrix Blank	LCS (%Rec.)	LCSD (%Rec.)
Calcium	<0.005	<0.005	<0.005	100	101
Copper	<0.0005	<0.0005	<0.0005	92.4	93.7
Iron	<0.0005	<0.0005	<0.0005	93	94
Potassium	<0.005	<0.005	<0.005	100	103
Magnesium	<0.005	<0.005	<0.005	101	103
Manganese	<0.0005	<0.0005	<0.0005	93.4	94.4
Sodium	<0.005	<0.005	0.013	104	106
Strontium	<0.0005	<0.0005	<0.0005	93.2	94.4
Zinc	<0.0005	<0.0005	<0.0005	94.3	95.3

XAD/FILTER ANALYSIS WORKSHEET FOR PAH
QC DATA

UHL SAMPLE #
2007003720, 22, 24, 26, 28, 30 - XAD/Filter

ANALYTE	Filter Desorption Efficiency	Tube Desorption Efficiency	PERCENT Filter Reporting Limit Verification	PERCENT Tube Reporting Limit Verification	Filter Matrix Spike	Filter Matrix Spike Duplicate
Naphthalene	82.2	96.6	95.2	99.6	98.4	102.1
Acenaphthylene	91.0	95.8	95.2	95.4	92.0	101.5
Acenaphthene	88.5	92.1	100.3	99.9	91.7	101.5
Fluorene	88.3	90.2	97.6	96.0	88.9	100.7
Anthracene	89.1	93.0	100.6	96.1	85.3	96.7
Phenanthrene	86.4	91.8	108.6	97.4	89.8	102.6
Fluoranthene	98.1	100.0	102.8	98.6	87.6	101.3
Pyrene	72.4	77.4	101.3	88.9	86.7	98.3
Benz(a)Anthracene	87.5	91.5	105.6	95.5	87.8	101.3
Chrysene	85.9	91.6	109.2	97.2	88.1	103.0
Benzo(b)Fluoranthene	105.0	110.0	101.3	91.4	88.8	103.9
Benzo(k)Fluoranthene	111.0	117.0	105.2	93.2	88.4	104.7
Benzo(a)Pyrene	113.0	120.0	103.4	93.0	89.0	105.0
Benzo(ghi)Perylene	112.0	123.0	117.9	97.9	81.8	89.2
Indeno(1,2,3-cd)Pyrene	120.0	130.0	109.0	93.7	80.7	88.9
Dibenz(a,h)Anthracene	120.0	129.0	111.5	97.2	81.7	91.9

Note: RLV, MS, and MSD corrected for DE.

PUF TUBE ANALYSIS WORKSHEET FOR PCB
QC DATA

UHL SAMPLE #
2007003721, 23, 25, 27, 29, 31 - PUF Tubes

ANALYTE	Spike Percent Recovery	Blank Concentration ug/m3
AROCLOR 1016	93.8	< 3
AROCLOR 1221	93.8	< 3
AROCLOR 1232	93.8	< 3
AROCLOR 1242	93.8	< 3
AROCLOR 1248	93.8	< 3
AROCLOR 1254	93.8	< 3
AROCLOR 1260	93.8	< 3

Note: Blank concentration based on a nominal sample volume of 1000 L,
Spike percent recovery based on Aroclor 1248.

Chlorinated Hydrocarbon Insecticides included in screening

ALDRIN
ALPHA-BHC
BETA-BHC
DELTA-BHC
GAMMA-BHC
DDD
DDE
DDT
DIELDRIN
ENDRIN
ENDRIN ALDEHYDE
ENDRIN KETONE
ENDOSULFAN I
ENDOSULFAN II
ENDOSULFAN SULFATE
HEPTACHLOR
HEPTACHLOR EPOXIDE
METHOXYCHLOR
TECHNICAL CHLORDANE
TOXAPHENE

PUF TUBE ANALYSIS WORKSHEET FOR PAH
QC DATA

UHL SAMPLE #
2007003721, 23, 25, 27, 29, 31 - PUF Tubes

ANALYTE	Spike Percent Recovery	Blank Concentration ug/m3
Naphthalene	52.4	< 2
Acenaphthylene	64.3	< 2
Acenaphthene	57.0	< 2
Fluorene	64.5	< 2
Anthracene	71.5	< 2
Phenanthrene	62.7	< 2
Fluoranthene	77.7	< 2
Pyrene	85.3	< 2
Benz(a)Anthracene	76.4	< 2
Chrysene	70.5	< 2
Benzo(b)Fluoranthene	115.3	< 2
Benzo(k)Fluoranthene	108.7	< 2
Benzo(a)Pyrene	117.6	< 2
Benzo(ghi)Perylene	112.0	< 2
Indeno(1,2,3-cd)Pyrene	116.9	< 2
Dibenz(a,h)Anthracene	116.9	< 2

Note: Blank concentration based on a nominal sample volume of 1000 L.

PUF TUBE ANALYSIS WORKSHEET FOR PCB
QC DATA

	Surrogate Percent Recovery	
UHL Sample Number	**Tetrachloro-m-xylene**	**Decachlorobiphenyl**
2007003721	70	79
2007003723	67	83
2007003725	67	79
2007003727	70	81
2007003729	72	83
2007003731	68	82