(360) 636-1068 fax



April 17, 2008

Analytical Report for Service Request No: K0802796

Richard Johnson Environmental Chemistry Consulting Services, Inc. 2525 Advance Rd. Madison, WI 53718

RE: Kuhlman Electric

Dear Richard:

Enclosed are the results of the samples submitted to our laboratory on April 01, 2008. For your reference, these analyses have been assigned our service request number K0802796.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.

Gregory Salata, Ph.D Project Chemist

GS/lb

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
М	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a
	substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater
	than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-







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Case Narrative

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Client:Environmental Chemistry Consulting Services, Inc. Service Request No.:K0802796Project:Kuhlman ElectricDate Received:04/01/08Sample Matrix:Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 04/01/08. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

Initial Calibration (ICAL) Exceptions:

The primary evaluation criterion was exceeded for Dichlorodifluoromethane, Vinyl Chloride, Bromomethane, Trichlorofluoromethane, Methylene Chloride, 1,1-Dichloroethene, 1,1-Dichloropropene, Carbon Tetrachloride, and n-Butylbenzene in ICAL ID 6696. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 9.4%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

The CAS minimum relative response factor criterion for 2-Butanone (MEK) was not met in ICAL ID 6696. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verifies instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question, the data quality is not significantly affected. No further corrective action was appropriate.

Lab Control Sample Exceptions:

The advisory criterion was exceeded for 1,1,1-Trichloroethane (TCA) in Laboratory Control Sample (LCS) KWG0803341-3. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

No other anomalies associated with the analysis of these samples were observed.

1,4-Dioxane by EPA Method 8270C

Sample Notes and Discussion

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

many falata Date 4/18/08 Approved by

Chain of Custody Documentation

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Clie	ent/Project: ECCS	-	Service Request K08 0 2	794
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1.	Samples were received via?	S Mail Fed Ex UPS	DHL GH GS PDX	Courier Hand Delivered
2.	Samples were received in: (circle)	Cooler Box En	welope Other	NA
3.	Were custody seals on coolers?	NA	If yes, how many and where?	and the second
	If present, were custody seals intac	at? (Y) N	If present, were they signed and	dated? <u>Y</u> N
4.	Is shipper's air-bill filed? If not, re			NA Y N
5.	Temperature of cooler(s) upon r Temperature Blank (°C):	eceipt (°C): <u>3.2</u> 2.6		
6.	If applicable, list Chain of Custody	y Numbers:		
7.	Were custody papers properly fille	ed out (ink, signed, etc.)?	Construction of the Constr	NA Y N
8.	Packing material used. Inserts	Baggies Bubble Wrap Gel	Packs Wet Ice Sleeves Other	
9.	Did all bottles arrive in good cor	dition (unbroken)? Indicate in	the table below.	NA Y N
10.	Were all sample labels complete (i.e analysis, preservation, etc.)?		Y N
11.	Did all sample labels and tags agr	ee with custody papers? Indicate	e in the table below	Y N
12.	Were appropriate bottles/contai	iners and volumes received for	the tests indicated?	NA (Y) N
13.	Were the pH-preserved bottles tes	sted* received at the appropriate p	H? Indicate in the table below	NA Y N
14.	Were VOA vials and 1631 Mercu	ry bottles received without heads	pace? Indicate in the table below.	NA Y N
15.	Are CWA Microbiology sample	s received with >1/2 the 24hr. h	old time remaining from collectio	n? NAY N
16.				NA Y N
	Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head- space	Broken	pН	Reagent	Volume added	Reagent Lot Number	Initials

*Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN). Additional Notes, Discrepancies, & Resolutions:

Volatile Organic Compounds EPA Method 8260B

Organic Analysis: Volatile Organic Compounds

Summary Package

Sample and QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

Cover Page - Organic Analysis Data Package Volatile Organic Compounds

Sample Name	Lab Code	Date Collected	Date Received
KEP-GW-020A-003	K0802796-001	03/28/2008	04/01/2008
KEP-GW-020B-003	K0802796-002	03/28/2008	04/01/2008
Duplcate 2	K0802796-003	03/28/2008	04/01/2008
KEP-GW-020A-003MS	KWG0803341-1	03/28/2008	04/01/2008
KEP-GW-020A-003DMS	KWG0803341-2	03/28/2008	04/01/2008

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:	HallyCoul	Name: HOlly Conrad
Date:	04-16-08	Title: Scientist

Cover Page - Organic

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 Date Collected: 03/28/2008 Date Received: 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003	Units:	0
Lab Code:	K0802796-001	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	ND	U	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	ND	U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	ND	U	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	ND	U	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	3.6		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND	U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	ND	U	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND	U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND	U	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND		0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND		0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND		0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND	U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	0.30		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND	U	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND		20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Merged

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Page

Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003	Units:	-
Lab Code:	K0802796-001	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result	0	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	Note
Dibromochloromethane	ND		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND		2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND	Ū	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND	U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND	U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND	U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND	U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND	U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND	U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND	U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND	U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND	U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND		2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND		2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND		2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene			0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene		-	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND	U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND	U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND	U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND	U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Collected:	03/28/2008
Sample Matrix:	Water	Date Received:	04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	KEP-GW-020A-003 K0802796-001				Units: ug/L Basis: NA
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethan	e 112	75-120	04/11/08	Acceptable	
Toluene-d8	120	80-128	04/11/08	Acceptable	
4-Bromofluorobenzen	e 105	75-117	04/11/08	Acceptable	

Comments:

Merged

3 of 3

Analytical Results

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Service Request: K0802796 Date Collected: 03/28/2008 **Date Received:** 04/01/2008

,

Volatile Organic Compounds

Sample Name:	KEP-GW-020B-003	Units:	0
Lab Code:	K0802796-002	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	ND U	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	ND U	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	ND U	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	19	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	ND U	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	*****
trans-1,2-Dichloroethene	ND U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	0.21 J	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND U	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND U	0.50	0.090	- 1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND U	20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Merged

1 of 3

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020B-003	Units:	0
Lab Code:	K0802796-002	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND	U	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND	U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND	U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND	U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND		0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND	U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND	U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND	U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND	U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND		2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND	U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND		2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND	U	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene		U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND		2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND		2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND	U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND	U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND	U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND	U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Analytical Results

Client:	Environmental Chemistry	Consulting Servi
Project:	Kuhlman Electric	
Sample Matrix:	Water	•

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	KEP-GW-020B-003 K0802796-002				Units: ug/L Basis: NA
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethan Toluene-d8	le 111 121	75-120 80-128	04/11/08 04/11/08	Acceptable Acceptable	
4-Bromofluorobenzen	e 106	75-117	04/11/08	Acceptable	

Comments:

Merged

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Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	Duplcate 2	Units:	0
Lab Code:	K0802796-003	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result	0	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND		0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane		U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	ND	U	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	ND	U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	ND	U	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	ND	U	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	4.5		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND	U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	ND	U	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND	U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND		0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND		0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND		0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND		0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND	U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	0.39		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND		0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND		20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

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Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

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Volatile Organic Compounds

Sample Name:	Duplcate 2	Units:	0
Lab Code:	K0802796-003	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result	0	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	11010
Dibromochloromethane	ND		0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND		2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND	U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND	U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND	U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND	U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND	U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND	U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND	U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND	U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND		2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND	U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND		2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND		2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND	U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene		U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND		2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene		U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND		2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene		U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND	U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND	U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND	U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

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Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

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75-117

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	Duplcate 2 K0802796-003				Units: Basis:	•
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note		•
Dibromofluoromethan Toluene-d8	le 112 122	75-120 80-128	04/11/08 04/11/08	Acceptable Acceptable		<u> </u>

04/11/08

Acceptable

Comments:

4-Bromofluorobenzene

Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	U
Lab Code:	KWG0803341-4	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Docult	0	MRL	MDL	Dilution	Date	Date	Extraction Lot	Note
	Result		·		Factor	Extracted	Analyzed	KWG0803341	Note
Dichlorodifluoromethane Chloromethane	ND ND		0.50 0.50	0.17	1	04/11/08	04/11/08	KWG0803341 KWG0803341	
Vinyl Chloride	ND ND		0.50	0.14 0.042	1 1	04/11/08 04/11/08	04/11/08 04/11/08	KWG0803341	
Bromomethane	ND		0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane Trichlorofluoromethane	ND		0.50	0.23	1	04/11/08	04/11/08	KWG0803341 KWG0803341	
	ND		0.50	0.14	1	04/11/08	04/11/08		
Acetone	ND	-	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	ND		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND	U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	ND	U	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND	U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND	U	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND	U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND	U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND	U	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND	U	20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND		0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Page

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	-
Lab Code:	KWG0803341-4	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

And Lude Manue				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND U	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND U	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND U	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND U	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Merged

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

.

Service Request:K0802796Date Collected:NADate Received:NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	-
Lab Code:	KWG0803341-4	Basis:	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	110	75-120	04/11/08	Acceptable	
Toluene-d8	120	80-128	04/11/08	Acceptable	
4-Bromofluorobenzene	110	75-117	04/11/08	Acceptable	

Comments:

Merged

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796

Surrogate Recovery Summary Volatile Organic Compounds

Extraction Method:	EPA 5030B
Analysis Method:	8260B

Units: PERCENT Level: Low

Sample Name	Lab Code	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
KEP-GW-020A-003	K0802796-001	112	120	105
KEP-GW-020B-003	K0802796-002	111	121	106
Duplcate 2	K0802796-003	112	122	107
Method Blank	KWG0803341-4	110	120	110
KEP-GW-020A-003MS	KWG0803341-1	109	120	110
KEP-GW-020A-003DMS	KWG0803341-2	107	121	111
Lab Control Sample	KWG0803341-3	109	120	109

Surrogate Recovery Control Limits (%)

Sur2 = Toluene-d8 Sur3 = 4-Bromofluorobenzene 75-117	Sur1 = Dibromofluoromethane	75-120
Sur3 = 4-Bromofluorobenzene 75-117	Sur2 = Toluene-d8	80-128
	Sur3 = 4-Bromofluorobenzene	75-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

 Service Request:
 K0802796

 Date Analyzed:
 04/11/2008

 Time Analyzed:
 10:05

-

Internal Standard Area and RT Summary Volatile Organic Compounds

File ID:	J:\MS04\DATA\041108\0411F003.D	Lab Code:	KWG0803340-2
Instrument ID:	MS04	Analysis Lot:	KWG0803340
Analysis Method:	8260B	-	

	_	Fluorobenzene		Chlorobenzene-d		1,4-Dichlorobe	nzene-d4
		Area	<u>RT</u>	Area	<u>RT</u>	<u>Area</u>	<u>RT</u>
	Results ==>	1,919,856	13.12	1,487,735	17.39	817,586	20.03
	Upper Limit ==>	3,839,712	13.62	2,975,470	17.89	1,635,172	20.53
	Lower Limit ==>	959,928	12.62	743,868	16.89	408,793	19.53
	ICAL Result ==>	1,753,678	13.18	1,237,660	17.44	609,147	20.07
Associated Analyses							
Lab Control Sample	KWG0803341-3	1,956,745	13.11	1,490,599	17.38	820,865	20.02
KEP-GW-020A-003MS	KWG0803341-1	2,035,876	13.12	1,563,004	17.39	857,805	20.03
KEP-GW-020A-003DMS	KWG0803341-2	2,062,716	13.11	1,571,201	17.38	866,277	20.03
Method Blank	KWG0803341-4	2,021,122	13.12	1,532,545	17.39	820,087	20.03
KEP-GW-020A-003	K0802796-001	1,926,432	13.12	1,493,414	17.39	769,999	20.03
KEP-GW-020B-003	K0802796-002	1,926,216	13.11	1,471,848	17.39	755,091	20.03
Duplcate 2	K0802796-003	1,943,344	13.12	1,520,775	17.39	777,869	20.03

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003	Units:	0
Lab Code:	K0802796-001	Basis:	
Extraction Method:	EPA 5030B	Level:	
Analysis Method:	8260B	Extraction Lot:	

	Sample	KEP-GW-020A-003MS KWG0803341-1 Matrix Spike		KEP-GW-020A-003DMS KWG0803341-2 Duplicate Matrix Spike			%Rec		RPD	
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	3.6	16.6	10.0	131	15.5	10.0	120	67-147	7	30
Benzene	ND	10.7	10.0	107	10.2	10.0	102	69-126	4	30
Trichloroethene (TCE)	ND	11.9	10.0	119	11.3	10.0	113	56-137	5	30
Toluene	0.30	11.5	10.0	112	11.0	10.0	107	66-128	5	30
Chlorobenzene	ND	10.3	10.0	103	9.98	10.0	100	68-120	3	30
1,2-Dichlorobenzene	ND	9.90	10.0	99	9.63	10.0	96	67-116	3	30
Naphthalene	ND	10.6	10.0	106	10.5	10.0	105	61-137	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Service Request: K0802796

Date Extracted: 04/11/2008

Date Analyzed: 04/11/2008

QA/QC Report

Client: Project: Sample Matrix: Environmental Chemistry Consulting Servi Kuhlman Electric Water

Service Request: K0802796 Date Extracted: 04/11/2008 Date Analyzed: 04/11/2008

Lab Control Spike Summary Volatile Organic Compounds

Extraction Method:	EPA 5030B
Analysis Method:	8260B

Units:	ug/L
Basis :	NA
Level:	Low
Extraction Lot:	KWG0803341

	KW	Control Samp /G0803341-3 Control Spik		%Rec		
Analyte Name	Result	Expected	%Rec	Limits		
Dichlorodifluoromethane	9.71	10.0	97	21-156	 	
Chloromethane	8.51	10.0	85	45-135		
Vinyl Chloride	9.94	10.0	99	59-135		
Bromomethane	9.65	10.0	97	24-144		
Chloroethane	8.90	10.0	89	60-128		
Trichlorofluoromethane	12.4	10.0	124	54-129		
Acetone	52.6	50.0	105	53-129		
1,1-Dichloroethene	12.0	10.0	120	70-136		
Carbon Disulfide	19.4	20.0	97	64-129		
Methylene Chloride	9.37	10.0	94	64-137		
trans-1,2-Dichloroethene	10.6	10.0	106	70-121		
1,1-Dichloroethane	10.5	10.0	105	72-122		
2-Butanone (MEK)	52.8	50.0	106	56-137		
2,2-Dichloropropane	13.2	10.0	132	48-133		
cis-1,2-Dichloroethene	10.6	10.0	106	76-125		
Chloroform	11.2	10.0	112	71-118		
Bromochloromethane	10.3	10.0	103	72-123		
1,1,1-Trichloroethane (TCA)	12.7	10.0	127 *	65-126		
1,1-Dichloropropene	11.6	10.0	116	71-119		
Carbon Tetrachloride	12.9	10.0	129	58-133		
1,2-Dichloroethane (EDC)	12.5	10.0	125	69-125		
Benzene	10.2	10.0	102	74-118		
Trichloroethene (TCE)	11.3	10.0	113	71-122		
1,2-Dichloropropane	9.62	10.0	96	73-123		
Bromodichloromethane	12.2	10.0	122	72-127		
Dibromomethane	10.7	10.0	107	71-124		
2-Hexanone	52.8	50.0	106	44-135		
cis-1,3-Dichloropropene	11.4	10.0	114	71-125		
Toluene	10.8	10.0	108	74-117		
trans-1,3-Dichloropropene	10.5	10.0	105	56-121		
1,1,2-Trichloroethane	10.1	10.0	101	73-122		
4-Methyl-2-pentanone (MIBK)	52.3	50.0	105	57-129		
1,3-Dichloropropane	9.93	10.0	99	74-120		
Tetrachloroethene (PCE)	11.3	10.0	113	65-121		
Dibromochloromethane	10.7	10.0	107	67-124		

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Lab Control Spike Summary Volatile Organic Compounds

Extraction Method:	EPA 5030B
Analysis Method:	8260B

Units: ug/L Basis: NA Level: Low Extraction Lot: KWG0803341

Service Request: K0802796

Date Extracted: 04/11/2008

Date Analyzed: 04/11/2008

	KW	Control Samp /G0803341-3 Control Spike		%Rec
Analyte Name	Result	Expected	%Rec	Limits
1,2-Dibromoethane (EDB)	10.4	10.0	104	71-120
Chlorobenzene	10.2	10.0	102	74-115
1,1,1,2-Tetrachloroethane	10.5	10.0	105	71-118
Ethylbenzene	10.5	10.0	105	71-118
m,p-Xylenes	21.2	20.0	106	73-119
o-Xylene	10.9	10.0	109	74-120
Styrene	10.7	10.0	107	75-123
Bromoform	12.3	10.0	123	57-135
Isopropylbenzene	10.1	10.0	101	65-110
1,1,2,2-Tetrachloroethane	8.84	10.0	88	63-126
1,2,3-Trichloropropane	9.43	10.0	94	67-123
Bromobenzene	9.94	10.0	99	76-111
n-Propylbenzene	9.95	10.0	100	69-122
2-Chlorotoluene	9.79	10.0	98	72-120
4-Chlorotoluene	9.58	10.0	96	70-118
1,3,5-Trimethylbenzene	9.71	10.0	97	70-120
tert-Butylbenzene	9.98	10.0	100	72-118
1,2,4-Trimethylbenzene	10.0	10.0	100	72-121
sec-Butylbenzene	10.7	10.0	107	73-130
1,3-Dichlorobenzene	9.92	10.0	99	76-110
4-Isopropyltoluene	9.81	10.0	98	67-115
1,4-Dichlorobenzene	9.67	10.0	97	74-112
n-Butylbenzene	9.97	10.0	100	62-123
1,2-Dichlorobenzene	9.87	10.0	99	75-110
1,2-Dibromo-3-chloropropane	10.5	10.0	105	49-124
1,2,4-Trichlorobenzene	10.7	10.0	107	66-115
1,2,3-Trichlorobenzene	11.2	10.0	112	64-120
Naphthalene	10.7	10.0	107	58-132
Hexachlorobutadiene	10.3	10.0	103	61-124
1,3,5-Trichlorobenzene	42.2	40.0	105	46-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Service Request: K0802796 **Date Extracted: 04/11/2008** Date Analyzed: 04/11/2008 Time Analyzed: 13:17

Method Blank Summary Volatile Organic Compounds

Sample Name: Method Blank File ID: J:\MS04\DATA\041108\0411F009.D Lab Code: KWG0803341-4 Instrument ID: MS04

Extraction Method: EPA 5030B Analysis Method:

8260B

Level: Low Extraction Lot: KWG0803341

This Method Blank applies to the following analyses:

			Date	Time
Sample Name	Lab Code	File ID	Analyzed	Analyzed
Lab Control Sample	KWG0803341-3	J:\MS04\DATA\041108\0411F004.D	04/11/08	10:37
KEP-GW-020A-003MS	KWG0803341-1	J:\MS04\DATA\041108\0411F005.D	04/11/08	11:09
KEP-GW-020A-003DMS	KWG0803341-2	J:\MS04\DATA\041108\0411F006.D	04/11/08	11:41
KEP-GW-020A-003	K0802796-001	J:\MS04\DATA\041108\0411F012.D	04/11/08	14:53
KEP-GW-020B-003	K0802796-002	J:\MS04\DATA\041108\0411F013.D	04/11/08	15:25
Duplcate 2	K0802796-003	J:\MS04\DATA\041108\0411F014.D	04/11/08	15:57

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Extracted:
 04/11/2008

 Date Analyzed:
 04/11/2008

 Time Analyzed:
 10:37

Lab Control Sample Summary Volatile Organic Compounds

Sample Name:	Lab Control Sample	File ID:	J:\MS04\DATA\041108\0411F004.D
Lab Code:	KWG0803341-3	Instrument ID:	MS04
Extraction Method:	EPA 5030B	Level:	
Analysis Method:	8260B	Extraction Lot:	

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
KEP-GW-020A-003MS	KWG0803341-1	J:\MS04\DATA\041108\0411F005.D	04/11/08	11:09
KEP-GW-020A-003DMS	KWG0803341-2	J:\MS04\DATA\041108\0411F006.D	04/11/08	11:41
Method Blank	KWG0803341-4	J:\MS04\DATA\041108\0411F009.D	04/11/08	13:17
KEP-GW-020A-003	K0802796-001	J:\MS04\DATA\041108\0411F012.D	04/11/08	14:53
KEP-GW-020B-003	K0802796-002	J:\MS04\DATA\041108\0411F013.D	04/11/08	15:25
Duplcate 2	K0802796-003	J:\MS04\DATA\041108\0411F014.D	04/11/08	15:57

1 of 1

QA/QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric
 Service Request:
 K0802796

 Date Analyzed:
 04/11/2008

 Time Analyzed:
 09:29

Analysis Lot: KWG0803340

Analysis Method: 8260B

Tune Summary Volatile Organic Compounds

File ID:	J:\MS04\DATA\041108\0411F002.D	
Instrument ID:	MS04	•
Column:		

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.7	24917	PASS
75	95	30	60	44.7	66776	PASS
95	95	100	100	100.0	149226	PASS
96	95	5	- 9	7.1	10567	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	101.5	151538	PASS
175	174	5	9	8.4	12689	PASS
176	174	95	101	95.3	144365	PASS
177	176	5	9	7.0	10104	PASS

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed	0
Continuing Calibration Verification	KWG0803340-2	J:\MS04\DATA\041108\0411F003.D	04/11/2008	10:05	~
Lab Control Sample	KWG0803341-3	J:\MS04\DATA\041108\0411F004.D	04/11/2008	10:37	
KEP-GW-020A-003MS	KWG0803341-1	J:\MS04\DATA\041108\0411F005.D	04/11/2008	11:09	
KEP-GW-020A-003DMS	KWG0803341-2	J:\MS04\DATA\041108\0411F006.D	04/11/2008	11:41	
Method Blank	KWG0803341-4	J:\MS04\DATA\041108\0411F009.D	04/11/2008	13:17	
KEP-GW-020A-003	K0802796-001	J:\MS04\DATA\041108\0411F012.D	04/11/2008	14:53	
KEP-GW-020B-003	K0802796-002	J:\MS04\DATA\041108\0411F013.D	04/11/2008	15:25	
Duplcate 2	K0802796-003	J:\MS04\DATA\041108\0411F014.D	04/11/2008	15:57	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

QA/QC Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric

Service Request: K0802796 **Calibration Date:** 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibrati Instrume			Column: MS	
Level ID	File ID	Level ID	File ID	
Α	J:\MS04\DATA\101007\1010F004.I	F	J:\MS04\DATA\101007\1010F010.D	
В	J:\MS04\DATA\101007\1010F005.I	G	J:\MS04\DATA\101007\1010F011.D	
С	J:\MS04\DATA\101007\1010F006.I	Н	J:\MS04\DATA\101007\1010F012.D	
D	J:\MS04\DATA\101007\1010F007.I	Ι	J:\MS04\DATA\101007\1010F013.D	
Е	J:\MS04\DATA\101007\1010F009.I	J	J:\MS04\DATA\101007\1010F017.D	

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane				В	0.20	0.285	C	0.50	0.317	D	1.0	0.328	Е	5.0	0.302
	F	10	0.309	G	20	0.337	Н	40	0.312	Ι	60	0.312	J	2.0	0.160
[†] Chloromethane				В	0.20	0.453	C	0.50	0.422	D	1.0	0.400	Е	5.0	0.364
	F	10	0.371	G	20	0.397	Н	40	0.392	I	60	0.393	J	2.0	0.272
[‡] Vinyl Chloride	A	0.10	0.276	В	0.20	0.290	C	0.50	0.353	D	1.0	0.349	Е	5.0	0.335
	F	10	0.338	G	20	0.365	Н	40	0.352	Ι	60	0.354	J	2.0	0.193
Bromomethane				 			С	0.50	0.233	D	1.0	0.208	Е	5.0	0.207
	F	10	0.224	G	20	0.258	Н	40	0.261	Ι	60	0.272	J	2.0	0.156
Chloroethane				В	0.20	0.263	C	0.50	0.268	D	1.0	0.256	Е	5.0	0.244
	F	10	0.241	G	20	0.250	Н	40	0.238	I	60	0.235	J	2.0	0.161
Trichlorofluoromethane				В	0.20	0.350	С	0.50	0.394	D	1.0	0.398	Е	5.0	0.374
	F	10	0.373	G	20	0.395	Н	40	0.373	I	60	0.369	J	2.0	0.191
Acetone	Α	4.0	0.0283	В	10	0.0264	C	20	0.0287	D	40	0.0259	E	100	0.0233
	F	200	0.0260	G	400	0.0251	Н	800	0.0250	I	1600	0.0250	J	80	0.0258
[‡] 1,1-Dichloroethene				В	0.20	0.247	C	0.50	0.265	D	1.0	0.258	Е	5.0	0.249
	F	10	0.253	G	20	0.270	Н	40	0.260	Ι	60	0.258	J	2.0	0.144
Carbon Disulfide	Α	0.10	0.883	В	0.20	1.04	С	0.50	1.10	D	1.0	1.09	Е	5.0	1.05
	F	10	1.06	G	20	1.13	Н	40	1.09	Ι	60	1.10	J	2.0	0.634
Methylene Chloride) 			С	0.50	0.519	D	1.0	0.419	Е	5.0	0.332
	F	10	0.314	G	20	0.312	Н	40	0.296	I	60	0.290	J	2.0	0.316
trans-1,2-Dichloroethene	Α	0.10	0.290	В	0.20	0.330	С	0.50	0.339	D	1.0	0.330	Е	5.0	0.322
	F	10	0.325	G	20	0.339	Н	40	0.325	Ι	60	0.323	J	2.0	0.221
1,1-Dichloroethane	Α	0.10	0.487	В	0.20	0.521	С	0.50	0.523	D	1.0	0.538	Е	5.0	0.516
	F	10	0.510	G	20	0.523	Н	40	0.507	Ι	60	0.503	J	2.0	0.388
2-Butanone (MEK)	Α	4.0	0.00830	В	10	0.00895	С	20	0.0107	D	40	0.0101	Е	100	0.00919
No. 1011111111111111111111111111111111111	F	200	0.0105	G	400	0.0103	Н	800	0.0106	I	1600	0.0105	J	80	0.0102
2,2-Dichloropropane) } !			С	0.50	0.377	D	1.0	0.370	Е	5.0	0.352
	F	10	0.351	G	20	0.364	Η	40	0.347	I	60	0.343	J	2.0	0.219

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 **Calibration Date:** 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID:CAL66Instrument ID:MS04	96											Colui	nn: N	1S	
Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF									
cis-1,2-Dichloroethene	A	0.10	0.302	В	0.20	0.327	C	0.50	0.345	D	1.0	0.332	E	5.0	0.332
	F	10	0.329	G	20	0.338	Н	40	0.327	I	60	0.325	J	2.0	0.268
Chloroform	A	0.10	0.466	В	0.20	0.486	С	0.50	0.496	D	1.0	0.489	E	5.0	0.475
	F	10	0.473	G	20	0.483	Н	40	0.466	I	60	0.459	J	2.0	0.380
Bromochloromethane				В	0.20	0.158	С	0.50	0.155	D	1.0	0.157	Е	5.0	0.157
	F	10	0.155	G	20	0.154	Н	40	0.148	I	60	0.143	J	2.0	0.142
1,1,1-Trichloroethane (TCA)				В	0.20	0.323	С	0.50	0.367	D	1.0	0.370	E	5.0	0.357
	F	10	0.360	G	20	0.373	Н	40	0.360	I	60	0.355	J	2.0	0.217
1,1-Dichloropropene				В	0.20	0.342	С	0.50	0.377	D	1.0	0.375	E	5.0	0.372
	F	10	0.384	G	20	0.406	Н	40	0.394	I	60	0.391	J	2.0	0.222
Carbon Tetrachloride				В	0.20	0.262	С	0.50	0.321	D	1.0	0.318	Е	5.0	0.303
	F	10	0.311	G	20	0.325	Н	40	0.312	I	60	0.307	J	2.0	0.170
1,2-Dichloroethane (EDC)	A	0.10	0.236	В	0.20	0.242	С	0.50	0.250	D	1.0	0.245	Е	5.0	0.240
	F	10	0.238	G	20	0.239	Н	40	0.229	I	60	0.222	J	2.0	0.218
Benzene	A	0.10	1.06	В	0.20	1.08	C	0.50	1.16	D	1.0	1.11	Е	5.0	1.10
	F	10	1.11	G	20	1.16	Н	40	1.14	I	60	1.15	J	2.0	0.826
Trichloroethene (TCE)				В	0.20	0.269	С	0.50	0.292	D	1.0	0.282	Е		0.274
	F	10	0.284	G	20	0.297	Н	40	0.288	I	60	0.284	J	2.0	0.194
1,2-Dichloropropane				В	0.20	0.278	С	0.50	0.272	D	.1.0	0.259	Е		0.266
	F	10	0.260	G	20	0.270	Н	40	0.263	Ι	60	0.262	J	2.0	0.226
Bromodichloromethane				В	0.20		C	0.50	0.301	D	1.0	0.298	Е	· · · · · · · · · · ·	0.302
	F	10	0.301	G	20	0.307	Н	40	0.301	I	60	0.297	J	2.0	0.256
Dibromomethane				В	0.20	0.136	С	0.50	0.139	D	1.0	0.134	Е		0.135
	F	10	0.133	G	20	0.134	Н	40		I		0.128	J	2.0	0.123
2-Hexanone	A		0.0112	В		0.0106	C	20	0.0124	D		0.0125	Е		0.0120
	F	200	0.0139	G	400	0.0140	Н	800	0.0145	I	1600	0.0143	J	80	0.0135
cis-1,3-Dichloropropene	A		0.328	В		0.332	С		0.341	D		0.334	Е		0.357
	F		0.357	G		0.375	Н		0.373	I		0.372	J		0.312
Toluene	<u></u>			B		0.643	C		0.678	D		0.662	E		0.666
	F	10	0.674	G		0.704	Н		0.690	I		0.680	J		0.497
trans-1,3-Dichloropropene	A		0.325	В		0.319	С		0.350	D		0.341	Е		0.366
, <u>r</u> <u>r</u>	F		0.372	G		0.385	Н		0.387	I	****	0.393	J		0.327
1,1,2-Trichloroethane	A		0.183	B		0.181	C		0.198	D		0.188	Е		0.194
-,-,	F		0.188	G		0.194	H		0.191	I		0.192	J		0.179

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Page

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID:	CAL6696
Instrument ID:	MS04

Column: MS

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF									
4-Methyl-2-pentanone (MIBK)	A	4.0	0.0112	В	10	0.0118	C	20	0.0130	D	40	0.0135	Е	100	0.0124
	F	200	0.0144	G	400	0.0143	Н	800	0.0149	Ι	1600	0.0146	J	80	0.0140
1,3-Dichloropropane				В	0.20	0.411	С	0.50	0.408	D	1.0	0.403	Е	5.0	0.403
	F	10	0.405	G	20	0.411	Н	40	0.408	Ι	60	0.409	J	2.0	0.385
Tetrachloroethene (PCE)				В	0.20	0.365	С	0.50	0.381	D	1.0	0.369	Е	5.0	0.359
	F	10	0.362	G	20	0.388	Н	40	0.373	I	60	0.373	J	2.0	0.237
Dibromochloromethane				В	0.20	0.288	С	0.50	0.304	D	1.0	0.290	Е	5.0	0.298
	F	10	0.301	G	20	0.312	Н	40	0.313	Ι	60	0.315	J	2.0	0.274
1,2-Dibromoethane (EDB)				В	0.20	0.228	С	0.50	0.247	D	1.0	0.231	Е	5.0	0.239
	F	10	0.239	G	20	0.243	Н	40	0.243	I	60	0.243	J	2.0	0.223
† Chlorobenzene	Α	0.10	0.989	В	0.20	1.05	С	0.50	1.11	D	1.0	1.07	Е	5.0	1.07
	F	10	1.06	G	20	1.11	Н	40	1.10	I	60	1.11	J	2.0	0.897
1,1,1,2-Tetrachloroethane	Α	0.10	0.310	В	0.20	0.347	С	0.50	0.350	D	1.0	0.340	Е	5.0	0.354
	F	10	0.350	G	20	0.364	Н	40	0.357	I	60	0.357	J	2.0	0.296
[‡] Ethylbenzene				В	0.20	0.461	С	0.50	0.517	D	1.0	0.520	Е	5.0	0.533
	F	10	0.545	G	20	0.580	Н	40	0.571	Ι	60	0.572	J	2.0	0.392
m,p-Xylenes				В	0.40	0.580	C	1.0	0.651	D	2.0	0.653	Е	10	0.675
	F	20	0.690	G	40	0.736	Н	80	0.726	Ι	120	0.735	J	4.0	0.507
o-Xylene	А	0.10	0.491	В	0.20	0.557	С	0.50	0.609	D	1.0	0.608	Е	5.0	0.639
	F	10	0.656	G	20	0.687	Н	40	0.676	I	60	0.673	J	2.0	0.508
Styrene				В	0.20	0.814	С	0.50	0.913	D	1.0	0.909	Е	5.0	1.02
	F	10	1.06	G	20	1.12	Н	40	1.13	Ι	60	1.14	J	2.0	0.829
Bromoform							С	0.50	0.143	D	1.0	0.141	Е	5.0	0.152
	F	10	0.151	G	20	0.159	Н	40	0.159	I	60	0.160	J	2.0	0.138
Isopropylbenzene							C	0.50	1.50	D	1.0	1.52	Е	5.0	1.60
	F	10	1.66	G	20	1.80	Н	40	1.79	Ι	60	1.70	J	2.0	1.13
[†] 1,1,2,2-Tetrachloroethane							С	0.50	0.470	D	1.0	0.460	Е	5.0	0.459
	F		0.448	G		0.455	Н	40	0.453	I	60	0.459	J	2.0	0.449
1,2,3-Trichloropropane							С	0.50	0.124	D	1.0	0.123	Е	5.0	0.130
	F	10	0.125	G	20	0.127	Н	40	0.126	Ι	60	0.126	J	2.0	0.119
Bromobenzene	Α	0.10	0.737	В	0.20	0.897	С	0.50	0.912	D	1.0	0.890	Е	5.0	0.919
	F	10	0.898	G	20	0.928	Н	40	0.913	Ι	60	0.927	J	2.0	0.808
n-Propylbenzene				В	0.20	3.45	С	0.50	3.85	D	1.0	3.81	Е	5.0	3.99
	F	10	4.08	G	20	4.42	Н	40	4.42	Ι	60	3.88	J	2.0	2.82

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Analyte Name													Colu	nn: N	10	
•		Level ID	Amt	RRF	Level ID	Amt	RRF	Level D	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
2-Chlorotoluene		A	0.10	2.31	В	0.20	2.35	C	0.50	2.65	D	1.0	2.49	Е	5.0	2.55
		F	10	2.56	G	20	2.71	Н	40	2.66	Ι	60	2.72	J	2.0	2.02
4-Chlorotoluene		А	0.10	1.99	В	0.20	2.38	С	0.50	2.36	D	1.0	2.33	Е	5.0	2.34
		F	10	2.32	G	20	2.47	Н	40	2.45	Ι	60	2.51	J	2.0	1.90
1,3,5-Trimethylbenzen	e							С	0.50	2.52	D	1.0	2.48	E	5.0	2.62
		F	10	2.63	G	20	2.84	Н	40	2.84	I	60	2.89	J	2.0	1.94
tert-Butylbenzene	, , , , , , , , , , , , , , , , , , ,				1 1 8 8			C	0.50	0.624	D	1.0	0.628	Е	5.0	0.640
		F	10	0.657	G	20	0.709	Н	40	0.691	I	60	0.699	J	2.0	0.457
1,2,4-Trimethylbenzen	e				В	0.20	2.30	C	0.50	2.39	D	1.0	2.41	Е	5.0	2.59
		F	10	2.61	G	20	2.81	Н	40	2.79	I	60	2.84	J	2.0	2.01
sec-Butylbenzene					5 7 5 8			С	0.50	3.26	D	1.0	3.25	Е	5.0	3.33
		F	10	3.44	G	20	3.74	Н	40	3.72	Ι	60	3.59	J	2.0	2.26
1,3-Dichlorobenzene		A	0.10	1.53	В	0.20	1.64	С	0.50	1.72	D	1.0	1.65	Е	5.0	1.70
		F	10	1.68	G	20	1.76	Н	40	1.72	I	60	1.75	J	2.0	1.45
4-Isopropyltoluene					t t t			C	0.50	2.73	D	1.0	2.74	Е	5.0	2.94
		F	10	3.00	G	20	3.28	Н	40	3.26	I	60	3.25	J	2.0	2.02
1,4-Dichlorobenzene		Α	0.10	1.71	В	0.20	1.80	С	0.50	1.79	D	1.0	1.72	Е	5.0	1.71
- -		F	10	1.69	G	20	1.74	Н	40	1.70	I	60	1.73	J	2.0	1.53
n-Butylbenzene					1 1 1 1 1			С	0.50	2.36	D	1.0	2.28	Е	5.0	2.49
2		F	10	2.58	G	20	2.81	Н	40	2.78	I	60	2.87	J	2.0	1.66
1,2-Dichlorobenzene		Α	0.10	1.31	В	0.20	1.42	С	0.50	1.41	D	1.0	1.36	Е	5.0	1.43
		F	10	1.40	G	20	1.45	Н	40	1.42	I	60	1.44	J	2.0	1.27
1,2-Dibromo-3-chloroprop	oane				t						D	1.0	0.0553	Е		0.0665
		F	10	0.0704	G	20	0.0700	Н	40	0.0725	I	60	0.0735	J	2.0	0.0645
1,2,4-Trichlorobenzene	;				В	0.20	0.587	C	0.50	0.636	D		0.635	Е		0.691
, ,		F	10	0.702	G	20	0.735	Н	*******	0.729	I		0.738	J	2.0	0.633
1,2,3-Trichlorobenzene	<u>,</u>				В		0.397	С		0.416	D		0.414	Е		0.458
, , ,		F	10	0.468	G		0.489	Н		0.488	I		0.494	J		0.445
Naphthalene								C		0.662	D		0.682	Ê		0.781
*		F	10	0.804	G	20	0.866	Н		0.886	I		0.919	J		0.747
Hexachlorobutadiene					B		0.320	C		0.328	D		0.327	E		0.327
		F	10	0.330	G		0.354	H		0.344	I		0.348	J	2.0	0.239
1,3,5-Trichlorobenzene	<u> </u>	A		0.793	B		0.887	C		0.970	D		0.937	Ē	5.0	1.01
1,5,5 11101101000112011C		<u>A</u> F		1.01	G	20	1.06	H	40	1.04	I		1.06	J		0.836

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound `

SuperSet Reference: RR86013

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID: Instrument ID:	CAL6696 MS04												Colu	nn: N	⁄IS	
Analyte Name		Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level D	Amt	RRF	Level ID	Amt	RRF
Dibromofluorometha	ne				В	4.0	0.280	C	5.0	0.244	D	6.0	0.258	Е	8.0	0.251
		F	10	0.236	G	20	0.275	Н	40	0.273	Ι	50	0.262	J	7.0	0.284
Toluene-d8					В	4.0	0.740	C	5.0	0.606	D	6.0	0.679	E	8.0	0.676
		F	10	0.613	G	20	0.810	Н	40	0.835	I	50	0.792	J	7.0	0.846
4-Bromofluorobenze	ne				В	4.0	0.395	C	5.0	0.352	D	6.0	0.399	E	8.0	0.372
		F	10	0.364	G	20	0.424	Н	40	0.425	I	50	0.415	J	7.0	0.430

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

‡ CCC Compound

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QA/QC Results

Client:

Project:

Environmental Chemistry Consulting Servi Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID:	CAL6696
Instrument ID:	MS04

		Calibration Evaluation					RRF	Eval	uation
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
Dichlorodifluoromethane	TRG	AverageRF	% RSD	17.9	*	≤15	0.296		0.01
[†] Chloromethane	TRG	AverageRF	% RSD	13.0		≤15	0.385		0.10
[‡] Vinyl Chloride	TRG	AverageRF	% RSD	16.6	*	≤15	0.321		0.01
Bromomethane	TRG	AverageRF	% RSD	16.5	*	≤15	0.227		0.01
Chloroethane	TRG	AverageRF	% RSD	13.1		≤15	0.239		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	17.9	*	≤15	0.357		0.01
Acetone	TRG	AverageRF	% RSD	6.2		≤15	0.0259		0.01
[‡] 1,1-Dichloroethene	MS	AverageRF	% RSD	15.7	*	≤15	0.245		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	14.8		≤15	1.02		0.01
Methylene Chloride	TRG	AverageRF	% RSD	22.7	*	≤15	0.350		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	11.3		≤15	0.314		0.01
† 1,1-Dichloroethane	TRG	AverageRF	% RSD	8.4		≤ 15	0.502		0.10
2-Butanone (MEK)	TRG	AverageRF	% RSD	8.2		≤15	0.00993	*	0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	14.8		≤15	0.341		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.9		≤15	0.323		0.01
[‡] Chloroform	TRG	AverageRF	% RSD	7.0		≤15	0.467		0.01
Bromochloromethane	TRG	AverageRF	% RSD	4.1		≤ <u>15</u>	0.152		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	14.4		≤15	0.342		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	15.3	*	≤ 15	0.363		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	16.8	*	≤ 15	0.292		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	4.3		≤ 15	0.236		0.01
Benzene	MS	AverageRF	% RSD	9.0		≤ 15	1.09		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤ 15	0.274		0.01
[‡] 1,2-Dichloropropane	TRG	AverageRF	% RSD	5.6		≤ 15	0.262		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	5.4		≤ 15 ≤ 15	0.202		0.01
Dibromomethane	TRG	AverageRF	% RSD	3.5		≤ 15	0.132		0.01
2-Hexanone	TRG	AverageRF	% RSD	10.4		≤ 15	0.0129		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	6.3		<i>≤</i> 15	0.348		0.01
[‡] Toluene	MS	AverageRF	% RSD	9.4		≤ 15	0.655		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	7.8		≤ 15 ≤ 15	0.356		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	3.3		≤ 15	0.189		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	9.5		≤ 15 ≤ 15	0.0134		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	2.0		≤ 15	0.405		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	12.9		≤ 15 ≤ 15	0.356		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	4.6		≤15 ≤15	0.330		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	4.0 3.4		≤15 ≤15	0.237		0.01
[†] Chlorobenzene	MS	AverageRF	% RSD % RSD	5.4 6.4		≤15 ≤15	1.06		0.01
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD % RSD	6.4 6.4		≤15 ≤15	0.343		0.00
‡ Ethylbenzene	TRG	AverageRF	% RSD % RSD	11.7		≤15 ≤15	0.543		0.01
m,p-Xylenes	TRG	AverageRF	% RSD % RSD	11.7		≤13 ≤15	0.662		0.01
o-Xylene	TRG	AverageRF	% RSD % RSD	11.5		≤ 13 ≤ 15	0.602		0.01
•	TRG	-		11.5		≤ 13 ≤ 15	0.993		0.01
Styrene	1KU	AverageRF	% RSD	13,1		÷ 10	0.993		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Page

6 of 7

Column: MS

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Column: MS

Initial Calibration Summary Volatile Organic Compounds

.

Calibration ID:	CAL6696
Instrument ID:	MS04

		Calibration Evaluation RRF Evaluation							ation
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
† Bromoform	TRG	AverageRF	% RSD	5.8		≤15	0.150		0.10
Isopropylbenzene	TRG	AverageRF	% RSD	13.6		≤15	1.59		0.01
† 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	1.5		≤15	0.457		0.30
1,2,3-Trichloropropane	TRG	AverageRF	% RSD	2.5		≤15	0.125		0.01
Bromobenzene	TRG	AverageRF	% RSD	7.0		≤15	0.883		0.01
n-Propylbenzene	TRG	AverageRF	% RSD	12.8		≤15	3.86		0.01
2-Chlorotoluene	TRG	AverageRF	% RSD	8.7		≤15	2.50		0.01
4-Chlorotoluene	TRG	AverageRF	% RSD	8.7		≤15	2.31		0.01
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	11.8		≤15	2.60		0.01
tert-Butylbenzene	TRG	AverageRF	% RSD	12.5		≤15	0.638		0.01
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	10.9		≤15	2.53		0.01
sec-Butylbenzene	TRG	AverageRF	% RSD	14.2		≤15	3.32		0.01
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	6.1		≤15	1.66		0.01
4-Isopropyltoluene	TRG	AverageRF	% RSD	14.5		≤15	2.90		0.01
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	4.3		≤15	1.71		0.01
n-Butylbenzene	TRG	AverageRF	% RSD	15.9	*	≤15	2.48		0.01
1,2-Dichlorobenzene	MS	AverageRF	% RSD	4.2		≤15	1.39		0.01
1,2-Dibromo-3-chloropropane	TRG	AverageRF	% RSD	9.3		≤15	0.0675		0.01
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	8.1		≤15	0.676		0.01
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	8.0		≤ 15	0.452		0.01
Naphthalene	MS	AverageRF	% RSD	11.9		≤15	0.793		0.01
Hexachlorobutadiene	TRG	AverageRF	% RSD	10.4		≤15	0.324		0.01
1,3,5-Trichlorobenzene	TRG	AverageRF	% RSD	9.9		≤15	0.961		0.01
Dibromofluoromethane	SURR	AverageRF	% RSD	6.4		≤15	0.262		0.01
Toluene-d8	SURR	Linear	R2	0.996		≥0.990	0.733		0.01
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.2		≤15	0.397		0.01

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

Form 6A - Organic 39

QA/QC Results

Client: Project:

File ID:

Environmental Chemistry Consulting Servi Kuhlman Electric

 Service Request:
 K0802796

 Calibration Date:
 10/10/2007

 Date Analyzed:
 10/10/2007

Second Source Calibration Verification Volatile Organic Compounds

Calibration Type:	Internal Standard
Analysis Method:	8260B

Calibration ID: CAL6696 Units: PPB

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Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	10	7.9	0.296	0.235	-21	NA	± 40 %	AverageRF
[†] Chloromethane	10	8.2	0.385	0.317	-18	NA	± 40 %	AverageRF
[‡] Vinyl Chloride	10	8.7	0.321	0.278	-13	NA	± 20 %	AverageRF
Bromomethane	10	8.8	0.227	0.200	-12	NA	$\pm 40 \%$	AverageRF
Chloroethane	10	8.3	0.239	0.199	-17	NA	± 40 %	AverageRF
Trichlorofluoromethane	10	7.3	0.357	0.261	-27	NA	$\pm 30 \%$	AverageRF
Acetone	50	47	0.0259	0.0242	-7	NA	± 30 %	AverageRF
[‡] 1,1-Dichloroethene	10	8.8	0.245	0.215	-12	NA	± 20 %	AverageRF
Carbon Disulfide	20	15	1.02	0.769	-24	NA	± 30 %	AverageRF
Methylene Chloride	10	8.2	0.350	0.287	-18	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	10	8.1	0.314	0.254	-19	NA	± 30 %	AverageRF
[†] 1,1-Dichloroethane	10	8.2	0.502	0.411	-18	NA	± 30 %	AverageRF
2-Butanone (MEK)	50	54	0.00993	0.0107	8	NA	± 30 %	AverageRF
2,2-Dichloropropane	10	7.9	0.341	0.270	-21	NA	$\pm 30 \%$	AverageRF
cis-1,2-Dichloroethene	10	8.8	0.323	0.283	-12	NA	± 30 %	AverageRF
[‡] Chloroform	10	8.1	0.467	0.380	-19	NA	± 20 %	AverageRF
Bromochloromethane	10	8.8	0.152	0.134	-12	NA	$\pm 30 \%$	AverageRF
1,1,1-Trichloroethane (TCA)	10	7.9	0.342	0.271	-21	NA	$\pm 30 \%$	AverageRF
1,1-Dichloropropene	10	7.8	0.363	0.284	-22	NA	± 30 %	AverageRF
Carbon Tetrachloride	10	7.9	0.292	0.232	-21	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	10	8.7	0.236	0.204	-14	NA	± 30 %	AverageRF
Benzene	10	8.2	1.09	0.898	-18	NA	± 30 %	AverageRF
Trichloroethene (TCE)	10	8.1	0.274	0.223	-19	NA	± 30 %	AverageRF
[‡] 1,2-Dichloropropane	10	8.5	0.262	0.221	-16	NA	± 20 %	AverageRF
Bromodichloromethane	10	8.8	0.297	0.262	-12	NA	$\pm 30 \%$	AverageRF
Dibromomethane	10	9.0	0.132	0.119	-10	NA	± 30 %	AverageRF
2-Hexanone	50	53	0.0129	0.0135	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	10	9.0	0.348	0.313	-10	NA	± 30 %	AverageRF
[‡] Toluene	10	8.2	0.655	0.537	-18	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	10	8.9	0.356	0.316	-11	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	10	9.3	0.189	0.175	-7	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	50	51	0.0134	0.0137	2	NA	± 30 %	AverageRF
1,3-Dichloropropane	10	9.1	0.405	0.369	-9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	10	7.8	0.356	0.278	-22	NA	± 30 %	AverageRF
Dibromochloromethane	10	9.1	0.299	0.273	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	10	9.1	0.237	0.217	-9	NA	± 30 %	AverageRF
† Chlorobenzene	10	8.4	1.06	0.889	-16	NA	± 30 %	AverageRF
1,1,1,2-Tetrachloroethane	10	8.6	0.343	0.296	-14	NA	± 30 %	AverageRF
[‡] Ethylbenzene	10	8.4	0.521	0.435	-16	NA	± 20 %	AverageRF
m,p-Xylenes	20	17	0.662	0.560	-15	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

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QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

 Service Request:
 K0802796

 Calibration Date:
 10/10/2007

 Date Analyzed:
 10/10/2007

Second Source Calibration Verification Volatile Organic Compounds

Calibration Type:	Internal Standard
Analysis Method:	8260B

Calibration ID: CAL6696 Units: PPB

			Average	SSV .			~	
Analyte Name	Expected	Result	RF	RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	10	8.9	0.611	0.541	-11	NA	± 30 %	AverageRF
Styrene	10	9.2	0.993	0.909	-8	NA	± 30 %	AverageRF
[†] Bromoform	10	9.5	0.150	0.143	-5	NA	$\pm 30 \%$	AverageRF
Isopropylbenzene	10	7.5	1.59	1.19	-25	NA	$\pm 30 \%$	AverageRF
[†] 1,1,2,2-Tetrachloroethane	10	9.5	0.457	0.433	-5	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	10	9.8	0.125	0.123	-2	NA	$\pm 30 \%$	AverageRF
Bromobenzene	10	8.9	0.883	0.781	-11	NA	± 30 %	AverageRF
n-Propylbenzene	10	8.7	3.86	3.34	-13	NA	± 30 %	AverageRF
2-Chlorotoluene	10	8.6	2.50	2.15	-14	NA	± 30 %	AverageRF
4-Chlorotoluene	10	8.5	2.31	1.96	-15	NA	± 30 %	AverageRF
1,3,5-Trimethylbenzene	10	8.4	2.60	2.18	-16	NA	± 30 %	AverageRF
tert-Butylbenzene	10	8.5	0.638	0.543	-15	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	10	8.8	2.53	2.23	-12	NA	± 30 %	AverageRF
sec-Butylbenzene	10	9.1	3.32	3.01	-10	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	10	8.7	1.66	1.44	-13	NA	$\pm 30 \%$	AverageRF
4-Isopropyltoluene	10	8.3	2.90	2.41	-17	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	10	8.5	1.71	1.46	-15	NA	± 30 %	AverageRF
n-Butylbenzene	10	8.6	2.48	2.14	-14	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	10	8.9	1.39	1.24	-11	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane	10	9.8	0.0675	0.0665	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	10	9.6	0.676	0.647	-4	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	10	10	0.452	0.452	0	NA	± 30 %	AverageRF
Naphthalene	10	10	0.793	0.792	0	NA	$\pm 30 \%$	AverageRF
Hexachlorobutadiene	10	9,3	0.324	0.301	-7	NA	± 30 %	AverageRF
1,3,5-Trichlorobenzene	40	43	0.961	1.03	7	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

‡ CCC Compound

2 of 2

		esults	R	/OC	OA
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Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Analyzed:	04/11/2008

Continuing Calibration Verification Summary Volatile Organic Compounds

Calibration	n Type:
Analysis M	ethod:

File ID:

Internal Standard 8260B

Calibration Date: 10/10/2007 Calibration ID: CAL6696 Analysis Lot: KWG0803340 Units: PPB

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			Min	Average	CCV				
Analyte Name	Expected	Result	RF	RF	RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	10	8.1	0.01	0.296	0.241	-19	NA	± 40 %	AverageRF
[†] Chloromethane	10	8.0	0.10	0.385	0.306	-20	NA	± 40 %	AverageRF
[‡] Vinyl Chloride	10	8.3	0.01	0.321	0.266	-17	NA	± 20 %	AverageRF
Bromomethane	10	8.8	0.01	0.227	0.199	-12	NA	± 40 %	AverageRF
Chloroethane	10	8.3	0.01	0.239	0.198	-17	NA	$\pm 40 \%$	AverageRF
Trichlorofluoromethane	10	11	0.01	0.357	0.387	8	NA	\pm 30 %	AverageRF
Acetone	200	230	0.01	0.0259	0.0298	15	NA	± 30 %	AverageRF
[‡] 1,1-Dichloroethene	10	9.2	0.01	0.245	0.226	-8	NA	± 20 %	AverageRF
Carbon Disulfide	10	8.8	0.01	1.02	0.899	-12	NA	± 30 %	AverageRF
Methylene Chloride	10	8.4	0.01	0.350	0.294	-16	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	10	9.2	0.01	0.314	0.290	-8	NA	± 30 %	AverageRF
† 1,1-Dichloroethane	10	9.6	0.10	0.502	0.479	-4	NA	± 30 %	AverageRF
2-Butanone (MEK)	200	210	0.01	0.00993	0.0105	6	NA	± 30 %	AverageRF
2,2-Dichloropropane	10	11	0.01	0.341	0.369	8	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	10	10	0.01	0.323	0.322	0	NA	± 30 %	AverageRF
[‡] Chloroform	10	11	0.01	0.467	0.493	5	NA	$\pm 20 \%$	AverageRF
Bromochloromethane	10	10	0.01	0.152	0.158	4	NA	\pm 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	10	11	0.01	0.342	0.366	7	NA	± 30 %	AverageRF
1,1-Dichloropropene	10	9.6	0.01	0.363	0.348	-4	NA	± 30 %	AverageRF
Carbon Tetrachloride	10	11	0.01	0.292	0.307	5	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	10	13	0.01	0.236	0.304	29	NA	± 30 %	AverageRF
Benzene	10	9.4	0.01	1.09	1.03	-6	NA	± 30 %	AverageRF
Trichloroethene (TCE)	10	9.8	0.01	0.274	0.267	-2	NA	± 30 %	AverageRF
[‡] 1,2-Dichloropropane	10	9.4	0.01	0.262	0.247	-6	NA	± 20 %	AverageRF
Bromodichloromethane	10	12	0.01	0.297	0.343	15	NA	± 30 %	AverageRF
Dibromomethane	10	11	0.01	0.132	0.143	8	NA	± 30 %	AverageRF
2-Hexanone	200	220	0.01	0.0129	0.0142	10	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	10	11	0.01	0.348	0.391	12	NA	$\pm 30 \%$	AverageRF
‡ Toluene	10	10	0.01	0.655	0.658	0	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	10	11	0.01	0.356	0.398	12	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	10	9.7	0.01	0.189	0.184	-3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	200	230	0.01	0.0134	0.0153	14	NA	± 30 %	AverageRF
1,3-Dichloropropane	10	9.8	0.01	0.405	0.395	-2	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	10	9.4	0.01	0.356	0.334	-6	NA	± 30 %	AverageRF
Dibromochloromethane	10	10	0.01	0.299	0.310	3	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	10	10	0.01	0.237	0.245	3	NA	± 30 %	AverageRF
† Chlorobenzene	10	9.4	0.30	1.06	0.992	-6	NA	± 30 %	AverageRF
1,1,1,2-Tetrachloroethane	10	10	0.01	0.343	0.347	1	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric
 Service Request:
 K0802796

 Date Analyzed:
 04/11/2008

Continuing Calibration Verification Summary Volatile Organic Compounds

Calibration Type: Analysis Method: Internal Standard 8260B

Calibration Date:10/10/2007Calibration ID:CAL6696Analysis Lot:KWG0803340Units:PPB

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Analyte Name	Expected	Result	RF	RF	RF	%D	%Drift	Criteria	Curve Fit
[‡] Ethylbenzene	10	9.3	0.01	0.521	0.485	-7	NA	± 20 %	AverageRF
m,p-Xylenes	20	19	0.01	0.662	0.623	-6	NA	± 30 %	AverageRF
o-Xylene	10	10	0.01	0.611	0.613	0	NA	± 30 %	AverageRF
Styrene	10	10	0.01	0.993	1.03	3	NA	± 30 %	AverageRF
† Bromoform	10	12	0.10	0.150	0.177	18	NA	± 30 %	AverageRF
Isopropylbenzene	10	9.4	0.01	1.59	1.49	-6	NA	± 30 %	AverageRF
[†] 1,1,2,2-Tetrachloroethane	10	8.4	0.30	0.457	0.384	-16	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	10	9.2	0.01	0.125	0.115	-8	NA	± 30 %	AverageRF
Bromobenzene	10	9.8	0.01	0.883	0.864	-2	NA	± 30 %	AverageRF
n-Propylbenzene	10	8.5	0.01	3.86	3.29	-15	NA	± 30 %	AverageRF
2-Chlorotoluene	10	8.8	0.01	2.50	2.21	-12	NA	± 30 %	AverageRF
4-Chlorotoluene	10	8.9	0.01	2.31	2.04	-11	NA	± 30 %	AverageRF
1,3,5-Trimethylbenzene	10	8.9	0.01	2.60	2,30	-12	NA	± 30 %	AverageRF
tert-Butylbenzene	10	8.5	0.01	0.638	0.540	-15	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	10	9.2	0.01	2.53	2.34	-8	NA	± 30 %	AverageRF
sec-Butylbenzene	10	8.9	0.01	3.32	2.95	-11	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	10	9.3	0.01	1.66	1.55	-7	NA	± 30 %	AverageRF
4-Isopropyltoluene	10	8.8	0.01	2.90	2,56	-12	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	10	9.2	0.01	1.71	1.57	-8	NA	± 30 %	AverageRF
n-Butylbenzene	10	8.7	0.01	2.48	2.15	-13	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	10	9.5	0.01	1.39	1.32	-5	NA	\pm 30 %	AverageRF
1,2-Dibromo-3-chloropropane	10	10	0.01	0.0675	0.0695	3	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	10	9.8	0.01	0.676	0.660	-2	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	10	9.5	0.01	0.452	0.429	-5	NA	± 30 %	AverageRF
Naphthalene	10	9.0	0.01	0.793	0.714	-10	NA	± 30 %	AverageRF
Hexachlorobutadiene	10	8.9	0.01	0.324	0.290	-11	NA	± 30 %	AverageRF
1,3,5-Trichlorobenzene	10	10	0.01	0.961	0.981	2	NA	± 30 %	AverageRF
Dibromofluoromethane	10	11	0.01	0.262	0.287	9	NA	± 30 %	AverageRF
Toluene-d8	10	12	0.01	0.733	0.922	NA	21	± 30 %	Linear
4-Bromofluorobenzene	10	11	0.01	0.397	0.447	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

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QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796

Analysis Run Log Volatile Organic Compounds

Analysis Method: 8260B

Analysis Lot: KWG0803340 Instrument ID: MS04

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0411F002.D	GC/MS Tuning - Generic	KWG0803340-1	4/11/2008	09:29		4/11/2008	09:55
0411F003.D	Continuing Calibration Verification	KWG0803340-2	4/11/2008	10:05		4/11/2008	10:31
0411F004.D	Lab Control Sample	KWG0803341-3	4/11/2008	10:37		4/11/2008	11:03
0411F005.D	KEP-GW-020A-003MS	KWG0803341-1	4/11/2008	11:09		4/11/2008	11:35
0411F006.D	KEP-GW-020A-003DMS	KWG0803341-2	4/11/2008	11:41		4/11/2008	12:07
0411F009.D	Method Blank	KWG0803341-4	4/11/2008	13:17		4/11/2008	13:43
0411F010.D	ZZZZZZ	ZZZZZZ	4/11/2008	13:49		4/11/2008	14:15
0411F011.D	ZZZZZZ	ZZZZZZ	4/11/2008	14:21		4/11/2008	14:47
0411F012.D	KEP-GW-020A-003	K0802796-001	4/11/2008	14:53	х. ₁ .	4/11/2008	15:19
0411F013.D	KEP-GW-020B-003	K0802796-002	4/11/2008	15:25		4/11/2008	15:51
0411F014.D	Duplcate 2	K0802796-003	4/11/2008	15:57		4/11/2008	16:23
0411F015.D	ZZZZZZ	ZZZZZZ	4/11/2008	16:30		4/11/2008	16:56
0411F016.D	ZZZZZZ	ZZZZZZ	4/11/2008	17:02		4/11/2008	17:28
0411F017.D	ZZZZZZ	ZZZZZZ	4/11/2008	17:34		4/11/2008	18:00
0411F018.D	ZZZZZZ	ZZZZZZ	4/11/2008	18:06		4/11/2008	18:32
0411F019.D	ZZZZZZ	ZZZZZZ	4/11/2008	18:38		4/11/2008	19:04
0411F020.D	ZZZZZZ	ZZZZZZ	4/11/2008	19:11		4/11/2008	19:37
0411F021.D	ZZZZZZ	ZZZZZZ	4/11/2008	19:43		4/11/2008	20:09
0411F022.D	ZZZZZZ	ZZZZZZ	4/11/2008	20:15		4/11/2008	20:41
0411F023.D	ZZZZZZ	ZZZZZZ	4/11/2008	20:47		4/11/2008	21:13
0411F024.D	ZZZZZZ	ZZZZZZ	4/11/2008	21:19		4/11/2008	21:45

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: Project: Sample Matrix:

Environmental Chemistry Consulting Servi Kuhlman Electric Water

Service Request: K0802796 **Date Extracted:** 04/11/2008

Extraction Prep Log Volatile Organic Compounds

Extraction Method: EPA 5030B **Analysis Method:** 8260B

Extraction Lot: KWG0803341 Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
KEP-GW-020A-003	K0802796-001	03/28/08	04/01/08	10ml	10ml	NA	
KEP-GW-020B-003	K0802796-002	03/28/08	04/01/08	10ml	10m1	NA	
Duplcate 2	K0802796-003	03/28/08	04/01/08	10ml	10m1	NA	
Method Blank	KWG0803341-4	NA	NA	10ml	10m1	NA	
KEP-GW-020A-003MS	KWG0803341-1	03/28/08	04/01/08	10ml	10ml	NA	
KEP-GW-020A-003DMS	KWG0803341-2	03/28/08	04/01/08	10ml	10ml	NA	
Lab Control Sample	KWG0803341-3	NA	NA	10ml	10ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Organic Analysis: Volatile Organic Compounds

Validation Package

Organic Analysis: <u>Volatile Organic Compounds</u>

Validation Package

QC Reports

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796

Surrogate Recovery Summary Volatile Organic Compounds

Extraction Method:	EPA 5030B
Analysis Method:	8260B

Units: PERCENT Level: Low

Sample Name	Lab Code	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
KEP-GW-020A-003	K0802796-001	112	120	105
KEP-GW-020B-003	K0802796-002	111	121	106
Duplcate 2	K0802796-003	112	122	107
Method Blank	KWG0803341-4	110	120	110
KEP-GW-020A-003MS	KWG0803341-1	109	120	110
KEP-GW-020A-003DMS	KWG0803341-2	107	121	111
Lab Control Sample	KWG0803341-3	109	120	109

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane Sur2 = Toluene-d8	75-120 80-128	
Sur3 = 4-Bromofluorobenzene	75-117	

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

 Service Request:
 K0802796

 Date Analyzed:
 04/11/2008

 Time Analyzed:
 10:05

Internal Standard Area and RT Summary Volatile Organic Compounds

File ID:	J:\MS04\DATA\041108\0411F003.D
Instrument ID:	MS04
Analysis Method:	8260B

Lab Code: KWG0803340-2 Analysis Lot: KWG0803340

	_	Fluorobenzene		Chlorobenze	ene-d5	1,4-Dichlorobenzene-d4		
		Area	<u>RT</u>	Area	<u>RT</u>	Area	<u>RT</u>	
	Results ==>	1,919,856	13.12	1,487,735	17.39	817,586	20.03	
	Upper Limit ==>	3,839,712	13.62	2,975,470	17.89	1,635,172	20.53	
	Lower Limit ==>	959,928	12.62	743,868	16.89	408,793	19.53	
	ICAL Result ==>	1,753,678	13.18	1,237,660	17.44	609,147	20.07	
Associated Analyses								
Lab Control Sample	KWG0803341-3	1,956,745	13.11	1,490,599	17.38	820,865	20.02	
KEP-GW-020A-003MS	KWG0803341-1	2,035,876	13.12	1,563,004	17.39	857,805	20.03	
KEP-GW-020A-003DMS	KWG0803341-2	2,062,716	13.11	1,571,201	17.38	866,277	20.03	
Method Blank	KWG0803341-4	2,021,122	13.12	1,532,545	17.39	820,087	20.03	
KEP-GW-020A-003	K0802796-001	1,926,432	13.12	1,493,414	17.39	769,999	20.03	
KEP-GW-020B-003	K0802796-002	1,926,216	13.11	1,471,848	17.39	755,091	20.03	
Duplcate 2	K0802796-003	1,943,344	13.12	1,520,775	17.39	777,869	20.03	

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003	Units:	0
Lab Code:	K0802796-001	Basis:	
Extraction Method:	EPA 5030B	Level:	
Analysis Method:	8260B	Extraction Lot:	

	Sample	KV	GW-020A-00 VG0803341- Matrix Spike		KV	W-020A-003 VG0803341-2 cate Matrix S	2	%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	3.6	16.6	10.0	131	15.5	10.0	120	67-147	7	30
Benzene	ND	10.7	10.0	107	10.2	10.0	102	69-126	4	30
Trichloroethene (TCE)	ND	11.9	10.0	119	11.3	10.0	113	56-137	5	30
Toluene	0.30	11.5	10.0	112	11.0	10.0	107	66-128	5	30
Chlorobenzene	ND	10.3	10.0	103	9.98	10.0	100	68-120	3	30
1,2-Dichlorobenzene	ND	9.90	10.0	99	9.63	10.0	96	67-116	3	30
Naphthalene	ND	10.6	10.0	106	10.5	10.0	105	61-137	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Service Request: K0802796

Date Extracted: 04/11/2008

Date Analyzed: 04/11/2008

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QA/QC Report

Client: Environmental Chemistry Consulting Servi **Project:** Sample Matrix: Water

Kuhlman Electric

Lab Control Spike Summary **Volatile Organic Compounds**

Extraction Method:	EPA 5030B
Analysis Method:	8260B

Units: ug/L Basis: NA Level: Low Extraction Lot: KWG0803341

Service Request: K0802796

Date Extracted: 04/11/2008

Date Analyzed: 04/11/2008

	KW	Control Samp /G0803341-3 Control Spike		%Rec		
Analyte Name	Result	Expected	%Rec	Limits		
Dichlorodifluoromethane	9.71	10.0	97	21-156	 ······································	
Chloromethane	8.51	10.0	85	45-135		
Vinyl Chloride	9.94	10.0	99	59-135		
Bromomethane	9.65	10.0	97	24-144		
Chloroethane	8.90	10.0	89	60-128		
Trichlorofluoromethane	12.4	10.0	124	54-129		
Acetone	52.6	50.0	105	53-129		
1,1-Dichloroethene	12.0	10.0	120	70-136		
Carbon Disulfide	19.4	20.0	97	64-129		
Methylene Chloride	9.37	10.0	94	64-137		
trans-1,2-Dichloroethene	10.6	10.0	106	70-121		
1,1-Dichloroethane	10.5	10.0	105	72-122		
2-Butanone (MEK)	52.8	50.0	106	56-137		
2,2-Dichloropropane	13.2	10.0	132	48-133		
cis-1,2-Dichloroethene	10.6	10.0	106	76-125		
Chloroform	11.2	10.0	112	71-118		
Bromochloromethane	10.3	10.0	103	72-123		
1,1,1-Trichloroethane (TCA)	12.7	10.0	127 *	65-126		
1,1-Dichloropropene	11.6	10.0	116	71-119		
Carbon Tetrachloride	12.9	10.0	129	58-133		
1,2-Dichloroethane (EDC)	12.5	10.0	125	69-125		
Benzene	10.2	10.0	102	74-118		
Trichloroethene (TCE)	11.3	10.0	113	71-122		
1,2-Dichloropropane	9.62	10.0	96	73-123		
Bromodichloromethane	12.2	10.0	122	72-127		
Dibromomethane	10.7	10.0	107	71-124		
2-Hexanone	52.8	50.0	106	44-135		
cis-1,3-Dichloropropene	11.4	10.0	114	71-125		
Toluene	10.8	10.0	108	74-117		
trans-1,3-Dichloropropene	10.5	10.0	105	56-121		
1,1,2-Trichloroethane	10.1	10.0	101	73-122		
4-Methyl-2-pentanone (MIBK)	52.3	50.0	105	57-129		
1,3-Dichloropropane	9.93	10.0	99	74-120		
Tetrachloroethene (PCE)	11.3	10.0	113	65-121		
Dibromochloromethane	10.7	10.0	107	67-124		

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Lab Control Spike Summary **Volatile Organic Compounds**

Extraction Method:	EPA 5030B
Analysis Method:	8260B

Units: ug/L Basis: NA Level: Low Extraction Lot: KWG0803341

Service Request: K0802796

Date Extracted: 04/11/2008

Date Analyzed: 04/11/2008

	KW	Control Samp /G0803341-3 Control Spike		%Rec							
Analyte Name	Result	Expected	%Rec	Limits							
1,2-Dibromoethane (EDB)	10.4	10.0	104	71-120						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Chlorobenzene	10.2	10.0	102	74-115							
1,1,1,2-Tetrachloroethane	10.5	10.0	105	71-118							
Ethylbenzene	10.5	10.0	105	71-118							
m,p-Xylenes	21.2	20.0	106	73-119							
o-Xylene	10.9	10.0	109	74-120							
Styrene	10.7	10.0	107	75-123							
Bromoform	12.3	10.0	123	57-135							
Isopropylbenzene	10.1	10.0	101	65-110							
1,1,2,2-Tetrachloroethane	8.84	10.0	88	63-126							
1,2,3-Trichloropropane	9.43	10.0	94	67-123							
Bromobenzene	9.94	10.0	99	76-111							
n-Propylbenzene	9.95	10.0	100	69-122							
2-Chlorotoluene	9.79	10.0	98	72-120							
4-Chlorotoluene	9.58	10.0	96	70-118							
1,3,5-Trimethylbenzene	9.71	10.0	97	70-120							
tert-Butylbenzene	9.98	10.0	100	72-118							
1,2,4-Trimethylbenzene	10.0	10.0	100	72-121							
sec-Butylbenzene	10.7	10.0	107	73-130							
1,3-Dichlorobenzene	9.92	10.0	99	76-110							
4-Isopropyltoluene	9.81	10.0	98	67-115							
1,4-Dichlorobenzene	9.67	10.0	97	74-112							
n-Butylbenzene	9.97	10.0	100	62-123							
1,2-Dichlorobenzene	9.87	10.0	99	75-110							
1,2-Dibromo-3-chloropropane	10.5	10.0	105	49-124							
1,2,4-Trichlorobenzene	10.7	10.0	107	66-115							
1,2,3-Trichlorobenzene	11.2	10.0	112	64-120							
Naphthalene	10.7	10.0	107	58-132							
Hexachlorobutadiene	10.3	10.0	103	61-124							
1,3,5-Trichlorobenzene	42.2	40.0	105	46-133							
-,-,	•		200	.0 100							

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

RR86013

QA/QC Report

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Service Request: K0802796 **Date Extracted:** 04/11/2008 **Date Analyzed:** 04/11/2008 Time Analyzed: 13:17

Method Blank Summary **Volatile Organic Compounds**

Sample Name:	Method Blank	File ID:	J:\MS04\DATA\041108\0411F009.D
Lab Code:	KWG0803341-4	Instrument ID:	MS04
Extraction Method:	EPA 5030B	Level:	Low

Extraction Method: 8260B **Analysis Method:**

Level: Low Extraction Lot: KWG0803341

This Method Blank applies to the following analyses:

			Date	Time
Sample Name	Lab Code	File ID	Analyzed	Analyzed
Lab Control Sample	KWG0803341-3	J:\MS04\DATA\041108\0411F004.D	04/11/08	10:37
KEP-GW-020A-003MS	KWG0803341-1	J:\MS04\DATA\041108\0411F005.D	04/11/08	11:09
KEP-GW-020A-003DMS	KWG0803341-2	J:\MS04\DATA\041108\0411F006.D	04/11/08	11:41
KEP-GW-020A-003	K0802796-001	J:\MS04\DATA\041108\0411F012.D	04/11/08	14:53
KEP-GW-020B-003	K0802796-002	J:\MS04\DATA\041108\0411F013.D	04/11/08	15:25
Duplcate 2	K0802796-003	J:\MS04\DATA\041108\0411F014.D	04/11/08	15:57

QA/QC Report

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Service Request: K0802796 Date Extracted: 04/11/2008 Date Analyzed: 04/11/2008 Time Analyzed: 10:37

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Lab Control Sample Summary **Volatile Organic Compounds**

Sample Name:	Lab Control Sample	File ID:	J:\MS04\DATA\041108\0411F004.D
Lab Code:	KWG0803341-3	Instrument ID:	MS04
Extraction Method:	EPA 5030B	Level:	Low

Analysis Method: 8260B

Extraction Lot: KWG0803341

This Lab Control Sample applies to the following analyses:

			Date	Time
Sample Name	Lab Code	File ID	Analyzed	Analyzed
KEP-GW-020A-003MS	KWG0803341-1	J:\MS04\DATA\041108\0411F005.D	04/11/08	11:09
KEP-GW-020A-003DMS	KWG0803341-2	J:\MS04\DATA\041108\0411F006.D	04/11/08	11:41
Method Blank	KWG0803341-4	J:\MS04\DATA\041108\0411F009.D	04/11/08	13:17
KEP-GW-020A-003	K0802796-001	J:\MS04\DATA\041108\0411F012.D	04/11/08	14:53
KEP-GW-020B-003	K0802796-002	J:\MS04\DATA\041108\0411F013.D	04/11/08	15:25
Duplcate 2	K0802796-003	J:\MS04\DATA\041108\0411F014.D	04/11/08	15:57

Organic Analysis: <u>Volatile Organic Compounds</u>

Validation Package

Raw Data

Analytical Results

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Service Request: K0802796 Date Collected: 03/28/2008 Date Received: 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003	Units:	0
Lab Code:	K0802796-001	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Dichlorodifluoromethane ND U 0.50 0.17 1 04/11/08 KWG0803341 Chloromethane ND U 0.50 0.14 1 04/11/08 KWG0803341	· · · · · · · · · · · · · · · · · · ·						
Chloromethane ND U 0.50 0.14 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	Extracted	Factor	MDL	MRL	Result Q	Analyte Name
		04/11/08	1	0.17	0.50	ND U	Dichlorodifluoromethane
		04/11/08	1	0.14	0.50	ND U	
Vinyl Chloride ND U 0.50 0.042 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.042	0.50	ND U	Vinyl Chloride
Bromomethane ND U 0.50 0.22 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.22	0.50	ND U	Bromomethane
Chloroethane ND U 0.50 0.23 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.23	0.50	ND U	Chloroethane
Trichlorofluoromethane ND U 0.50 0.14 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.14	0.50	ND U	Trichlorofluoromethane
Acetone ND U 20 4.1 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	4.1	20	ND U	Acetone
1,1-Dichloroethene 3.6 0.50 0.13 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.13	0.50	3.6	1,1-Dichloroethene
Carbon Disulfide ND U 0.50 0.16 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.16	0.50	ND U	Carbon Disulfide
Methylene Chloride ND U 2.0 0.20 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.20	2.0	ND U	Methylene Chloride
trans-1,2-Dichloroethene ND U 0.50 0.15 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.15	0.50	ND U	trans-1,2-Dichloroethene
1,1-Dichloroethane ND U 0.50 0.11 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.11	0.50	ND U	1,1-Dichloroethane
2-Butanone (MEK) ND U 20 2.3 1 04/11/08 KWG0803341 *	1 04/11/08 04/11/08 KWG0803341 *	04/11/08	1	2.3	20	ND U	2-Butanone (MEK)
2,2-Dichloropropane ND U 0.50 0.18 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.18	0.50	ND U	2,2-Dichloropropane
cis-1,2-Dichloroethene ND U 0.50 0.12 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.12	0.50	ND U	cis-1,2-Dichloroethene
Chloroform ND U 0.50 0.14 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.14	0.50	ND U	Chloroform
Bromochloromethane ND U 0.50 0.17 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.17	0.50	ND U	Bromochloromethane
1,1,1-Trichloroethane (TCA) ND U 0.50 0.12 1 04/11/08 KWG0803341 *	1 04/11/08 04/11/08 KWG0803341 *	04/11/08	1	0.12	0.50	ND U	1,1,1-Trichloroethane (TCA)
1,1-Dichloropropene ND U 0.50 0.15 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.15	0.50	ND U	1,1-Dichloropropene
Carbon Tetrachloride ND U 0.50 0.14 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.14	0.50	ND U	Carbon Tetrachloride
1,2-Dichloroethane (EDC) ND U 0.50 0.12 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.12	0.50	ND U	1,2-Dichloroethane (EDC)
Benzene ND U 0.50 0.14 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.14	0.50	ND U	Benzene
Trichloroethene (TCE) ND U 0.50 0.14 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.14	0.50	ND U	Trichloroethene (TCE)
1,2-Dichloropropane ND U 0.50 0.14 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.14	0.50	ND U	1,2-Dichloropropane
Bromodichloromethane ND U 0.50 0.11 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.11	0.50	ND U	Bromodichloromethane
Dibromomethane ND U 0.50 0.12 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.12	0.50	ND U	Dibromomethane
2-Hexanone ND U 20 4.0 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	4.0	20	ND U	2-Hexanone
cis-1,3-Dichloropropene ND U 0.50 0.11 1 04/11/08 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.11	0.50	ND U	cis-1,3-Dichloropropene
Toluene 0.30 J 0.50 0.11 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.11	0.50	0.30 J	Toluene
trans-1,3-Dichloropropene ND U 0.50 0.090 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.090	0.50	ND U	trans-1,3-Dichloropropene
1,1,2-Trichloroethane ND U 0.50 0.14 1 04/11/08 KWG0803341		04/11/08	1	0.14	0.50	ND U	
4-Methyl-2-pentanone (MIBK) ND U 20 2.7 1 04/11/08 04/11/08 KWG0803341		04/11/08	1	2.7	20	ND U	4-Methyl-2-pentanone (MIBK)
1,3-Dichloropropane ND U 0.50 0.15 1 04/11/08 KWG0803341	1 04/11/08 04/11/08 KWG0803341	04/11/08	1	0.15	0.50	ND U	1,3-Dichloropropane

Comments:

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Form 1A - Organic 56

SuperSet Reference: RR86013

Page 1 of 3

Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

Service Request: K0802796 Date Collected: 03/28/2008 Date Received: 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003	Units:	0
Lab Code:	K0802796-001	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND U	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND U	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND U	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND U	2.0	0.22	· 1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Merged

Form 1A - Organic 57

Page 2 of 3

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Units: ug/L Basis: NA

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003
Lab Code:	K0802796-001

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	112	75-120	04/11/08	Acceptable	
Toluene-d8	120	80-128	04/11/08	Acceptable	
4-Bromofluorobenzene	105	75-117	04/11/08	Acceptable	

Comments:

Merged

Form 1A - Organic 58

SuperSet Reference: RR86013

 Data File:
 J:\MS04\DATA\041108\0411F012.D

 Lab ID:
 K0802796-001

 RunType:
 SMPL

 Matrix:
 WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID: 04/11/2008 14:53 04/11/2008 15:31 KWG0803340 8260B LJ8580

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	X	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	<u> </u>
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	2-Butanone (MEK)	0.0099	0.01	NA	MRLCheck
Lab Control Spike	1,1,1-Trichloroethane (TCA)	127	65	126	Advison

Primary Review: Secondary Review Page 1 of 1

	WATER 04/01/2008			Matrix: Receive	/2008	Ш 03/28/	Tier: Collect Date:			8260B VOC_FP	ttle ID: od Code:	
							Deven Late		·	 KWG0803340	alysis Lot:	Ana
	96	K08027	Group:	Report	0803341 5030B	KWG EPA S	Prep Lot: Prep Method:			8260B	alysis Lot: alysis Method:	
	interato esta segunda esta de la constante esta de la constante esta de la constante esta de la constante esta					04/11/	Prep Date:			700850	p Ref:	Prej
)6	CAL669	tion ID:	Calibra				VIS04-8	DS\101007	J:\MS04\METHO	ant Method:	Qua
		LJ8580							Compounds	Volatile Organic	e:	Titl
the serve a c		MJ119	ID:	Method						J:\MS04\DATA\0	ne Ref:	
	st	eport Li	based on Re	Quant	- <u></u>		······································	F009.D	41108\0411	J:\MS04\DATA\0	MB Ref: J:\MS04	
· · · · · · · · · · · · · · · · · · ·	ne (MS04		Instrum				F012.D		J:\MS04\DATA\0	a File:	
		12		Vial:	2008 15:31	04/11/	Quant Date:		3	04/11/2008 14:53 SMPL	ju Date: n Type:	-
	ngrouphi succession - a	1.0 PPB		Dilutior Soln Co						K0802796-001	D ID:	
			· · · · · · · · · · · · · · · · · · ·							rd Compounds	rnal Standar	nter
	Area Criteria			Solution Conc	Response	Quant Mass		RT Dev	RT	me	Parameter Na	S lef
	OK			10.00	1926432	96		0.00	13.12	e	Fluorobenzen	
	OK			10.00	1493414	117		0.00	17.39		Chlorobenzen	
	OK			10.00	769999	152		0.00	20.03		l,4-Dichlorob rogate Comp	
		%Rec	%Rec	Solution	D	Quant Mass	RRT Dev	RT Dev	RT		Parameter Na	s ef
Rp		Limits		Conc	Response							
	OK :	75-120	112	11.19 12.04	565913 1762204	113 98	0.00 0.00	0.01 0.01	12.00 15.46	ometnane	Dibromofluor Toluene-d8	
	OK OK	80-128 75-117	120 105	12.04	624287	98 95	0.00	0.01	13.40	obenzene	4-Bromofluor	
	- CIC	10 117	ug/L	Conc. Units:		20				nds	get Compoun	arg
Rpt	Q		Final Conc	Solution Conc	Response	QuantM ass	RRT Dev	RT Dev	RT	me	Parameter Na	lS Ref
~~P	U		0.17		0	85				oromethane	Dichlorodifluc	1
	U		0.14		0 d	50					Chloromethan	1
	Ū,		0.042		0	62				e	Vinyl Chlorid	l
	U		0.22		0	94				le	Bromomethan	1
	U		0.23		0	64					Chloroethane	1
	U		0.14		0	101				omethane	Trichlorofluor	l
	n PCI-ferring		3.6	3.58	168852	96	0.00		8.06	thene	1,1-Dichloroet	1
	U		4.1	2.46	12302	43	0.00	0.01	8.12	~ 1	Acetone	1
,	U		0.16	0.0200	3348	76	0.00	-0.01	8.53		Carbon Disulf	l
	U		0.20		0	84					Methylene Ch	l
	U		0.15	0.0000	0	96 62	0.00		10.15		trans-1,2-Dich 1,1-Dichloroet	
	U		0.11	0.0300	2707	63	0.00		10.15			
	* *		0.18		0	77					2,2-Dichlorop	l
	U U		0.12		0	96				reathers	cis-1,2-Dichlo]

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Page

1 of 3

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J:\MS04\DATA\041108\0411F012.D

Data File:	J:\MS04\DATA\041108\0411F012.D				Instrument:	MS04
Acqu Date:	04/11/2008 14:53	Quant Date:	04/11/2008 1:	5:31	Vial:	12
Run Type:	SMPL				Dilution:	1.0
Lab ID:	K0802796-001				Soln Conc. Units:	PPB

	get Compounds	·····				Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Bromochloromethane				128	0		0.17	U	
1	Chloroform	11.71	sant .	0.00	83	4132	0.0500	0.14	U	
1	1,1,1-Trichloroethane (TCA)			an a	97	0		0.12	U	
1	Carbon Tetrachloride				117	0		0.14	U	
1	1,1-Dichloropropene			··(,/1				0.15	Ŭ	
1	Benzene				78	0 d		0.14	U	
1	1,2-Dichloroethane (EDC)	• • • • • • • • • • • • • • • • • • •			62	0 d		0.12	U	· · · · · · · · · · · · · · · · · · ·
1	Trichloroethene (TCE)				95	0		0.12	U	
1	1,2-Dichloropropane				63	0		0.14	U	
1	Dibromomethane		·····		93	0		0.12	U	
1	Bromodichloromethane				83	0		0.12	U	
1	cis-1,3-Dichloropropene				83 75	0		0.11	U	
1			······							
1	4-Methyl-2-pentanone (MIBK) Toluene	15.50	0.01	0.00	100	bO		2.7	U	
2		15.56	0.01	0.00	92	37351	0.3000	0.30	J	
	trans-1,3-Dichloropropene				75	0		0.090	U	
2	1,1,2-Trichloroethane				83	0		0.14	U	
2	Tetrachloroethene (PCE)	16.31		0.00	164	2242	0.0400	0.13	U	
2	2-Hexanone				57	0		4.0	U	
2	1,3-Dichloropropane				76	0		0.15	U	
2	Dibromochloromethane				129	0		0.11	U	
2	1,2-Dibromoethane (EDB)				107	0		0.099	U	
2	Chlorobenzene				112	0		0.14	U	
2	Ethylbenzene				106	0 d		0.13	Ū	
2	1,1,1,2-Tetrachloroethane				131	0 d		0.12	U	
2	m,p-Xylenes				106	0 d		0.22	U	
2	o-Xylene				106	0		0.11	Ŭ	
2	Styrene				104	0		0.095	U	
2	Bromoform				173	0		0.28	U	
2	Isopropylbenzene				173	0		0.28	U	
3	1,1,2,2-Tetrachloroethane				83	0		0.11	U	
3	Bromobenzene									
	n-Propylbenzene				156 91	0		0.18	U	
3	1,2,3-Trichloropropane				110	0 d 0		0.098 0.24	U	
									U	
3 3	2-Chlorotoluene 1,3,5-Trimethylbenzene				91	0 d		0.12	U	
	4-Chlorotoluene				105	0		0.13	U	
					91	. 0 d		0.12	U	
	tert-Butylbenzene				134	0		0.13	U	
	1,2,4-Trimethylbenzene				105	0		0.15	U	
	sec-Butylbenzene				105	0		0.13	U	
	4-Isopropyltoluene				119	0		0.13	U	
	1,3-Dichlorobenzene				146	0		0.11	U	
3	1,4-Dichlorobenzene				146	0		0.12	U	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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J:\MS04\DATA\041108\0411F012.D

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

Result fails acceptance criteria
 Acceptance criteria not applicable
 Insufficient information to determine acceptance
 Result >= MRL, but MRL less than low point of ICAL
 check for co-elution

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Acq Rur Lab	Data File: J:\MS04\DATA\C Acqu Date: 04/11/2008 14:5 Run Type: SMPL Lab ID: K0802796-001)41108\0411F012.D 3		Quant Date:	04/11/2008 15:31		Vial: Dilution: Soln Conc. Units:		MS04 12 1.0 PPB	
	get Compo	unas					Final	Conc. Units:	ug/L		
IS Ref	Parameter 1	Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
3	n-Butylben	zene				91	0 d	· · · /	0.23	U	
3	1,2-Dichlor	obenzene				146	0		0.12	U	
3	1,2-Dibrom	io-3-chloropropane				157	0		1.0	U	
3	1,3,5-Trich	lorobenzene	21.64	0.01	0.00	180	3818	0.0500	0.35	U	
3	1,2,4-Trich	lorobenzene				180	0		0.22	U	
3	Hexachloro	butadiene				225	0		0.28	U	
3	Naphthalen	e				128	0		0.29	U	
3	1,2,3-Trich	lorobenzene				180	0		0.33	U	

Prep Amount:	10 ml	Dilution:	1.0
Prep Final Vol:	10 ml	Unit Factor:	1

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank

E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

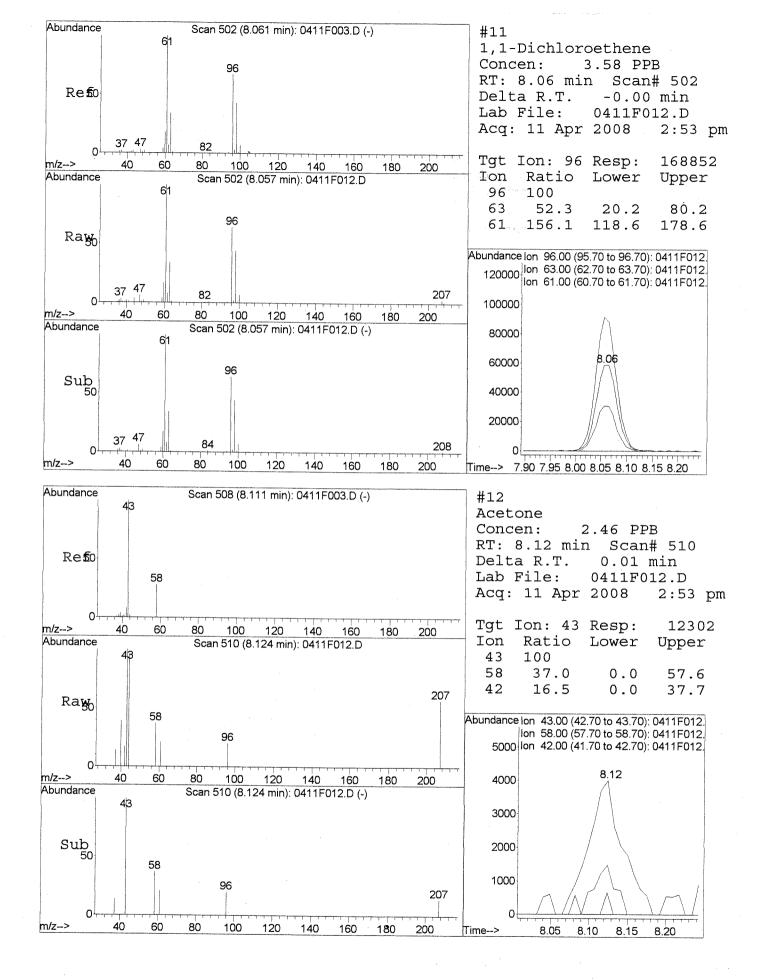
Printed: 04/11/2008 15:52:31 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F012.D

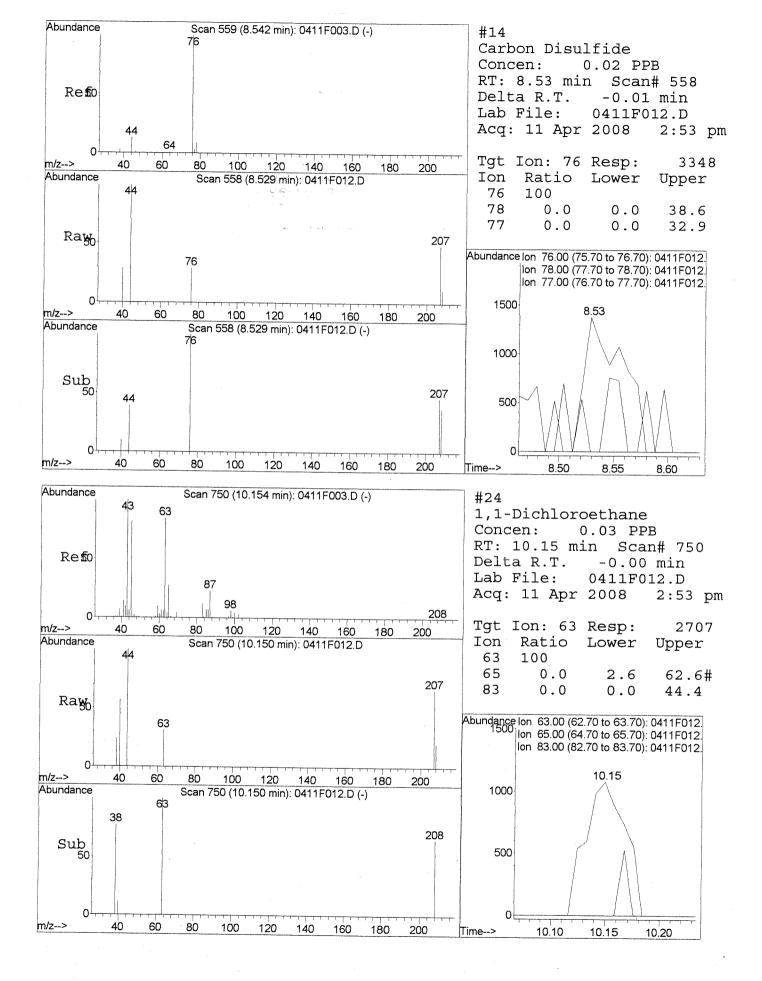
		Q	uanti	tatio	n Repo	ort	(QT Re	viewe	ed)		· ·	*
Acq (Samp] Misc MS Ir	le : KO8 : ntegration	Apr 2 302796 Param	008 -001 s: RTH	2:53 EINT.1	pm	F012.D			Operato Inst Multipl	: M: .r: 1	C 504 .00	
	Time: Apr								lts Fil			MS04-8
Respo		VOA M Fri A	S04 EH pr 11	PA Met 10:36	chod 8 5:38 2	260B/6	8260.M 24	(RTE	Integr	ator)		ing an
Abundance					TIC: 0	411F012.D						i limeat
7500000												
7000000												
6500000												
6000000												
5500000												· · · · · · · · · · · · · · · · · · ·
5000000												
4500000											in the second	
4000000												
3500000												
3000000						S	ie-d5,1 ie,S	izene-d4,1				
2500000				1		Toluene-d8,S	Chlorobenzene-d5, 4-Bromofluorobenzene, S	1,4-Dichlorobenzene-d4,1				
2000000-				thane,S S Fluorobenzene I			4-Bromo	÷			aabordeni viid de Keel - e Peo	
1500000		thene, CMT	1	af@an.T Dibromofluorometh 1,2-Dichloroethane-d4,S					ne T		an art sould at	
1000000		Acetoné, †: Dichloroethene, CMT Carbon Disulfide, T	1,1-Dichloroethane, PT	Cettratification (Control Dibromofluoromethane, S Dibromofluoromethane, S 1,2-Dichloroethane-d4, S Filmo		Totuene, CMT Tetrachloroethene, T			1,3,5-Trichlorobenzene,1		· · · · · · · · · · · · · · · · · · ·	
500000-		Aceton Carbon	1,1-Dic	Ceveration	· .	Tetrach			1,3,5-TI		- Versinger since	
0	6.00 8	.00 ⁻ 1	0.00	<u>بہ الے الے ال</u> 12.00	<u> </u> 14.00	16.00	- <u>IV (</u>	20.00	22.00	24.00	26.00	,
0411F012	2.D 10100'	7MS04-	8260.1	M			L 15:31				Page	



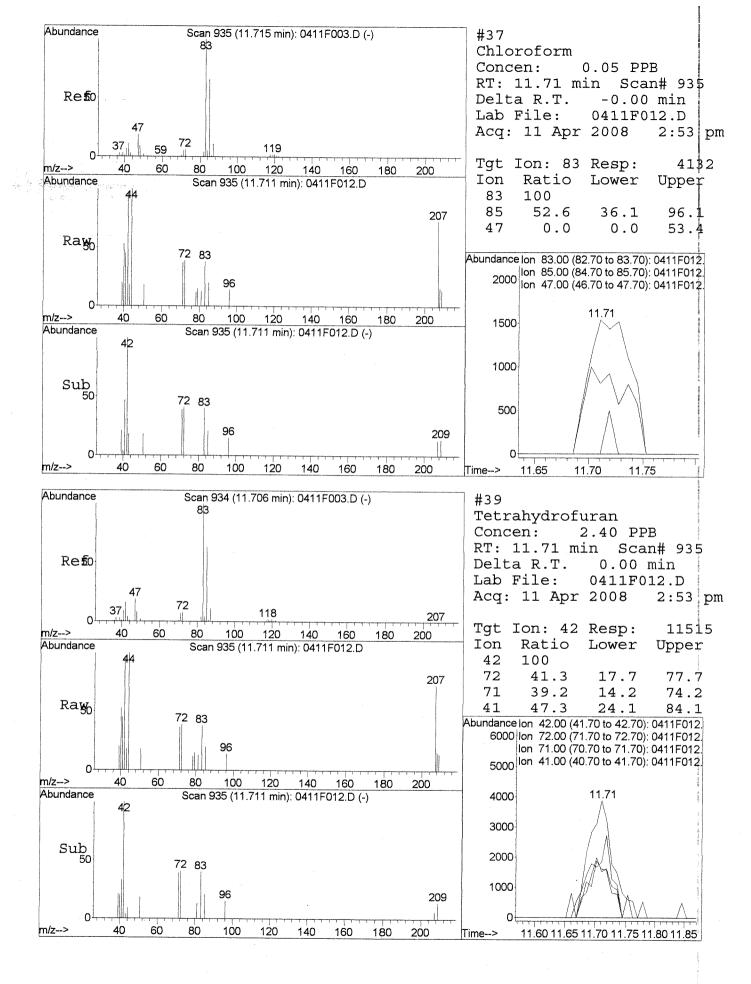
0411F012.D 101007MS04-8260.M

Fri Apr 11 15:31:36 2008

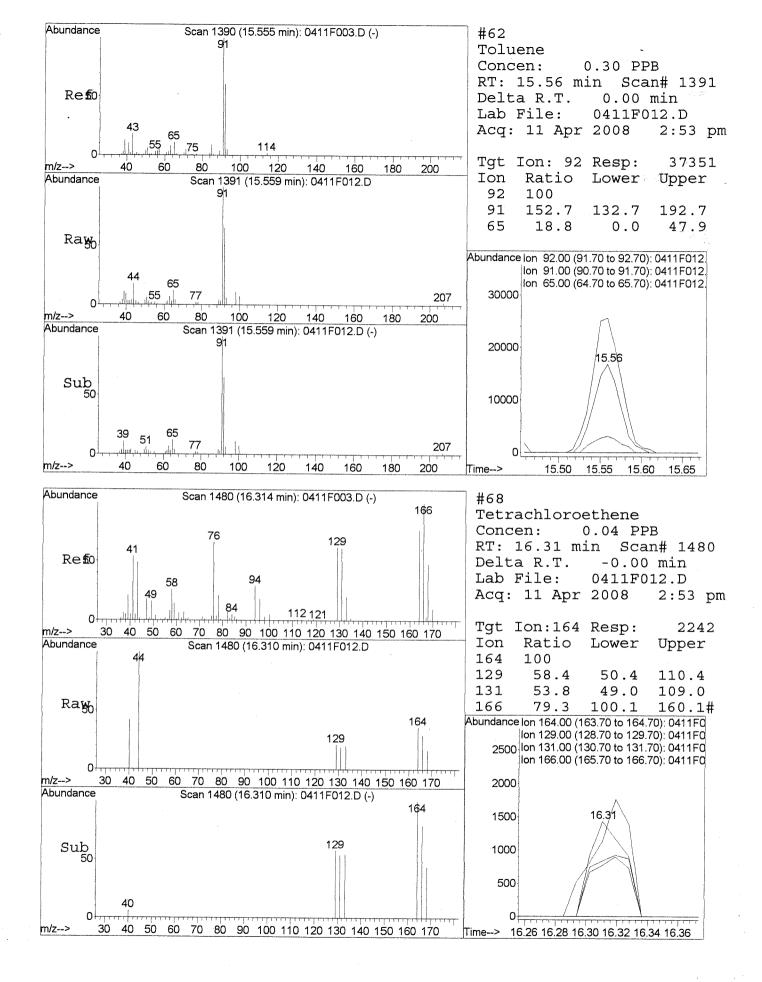
Page 3



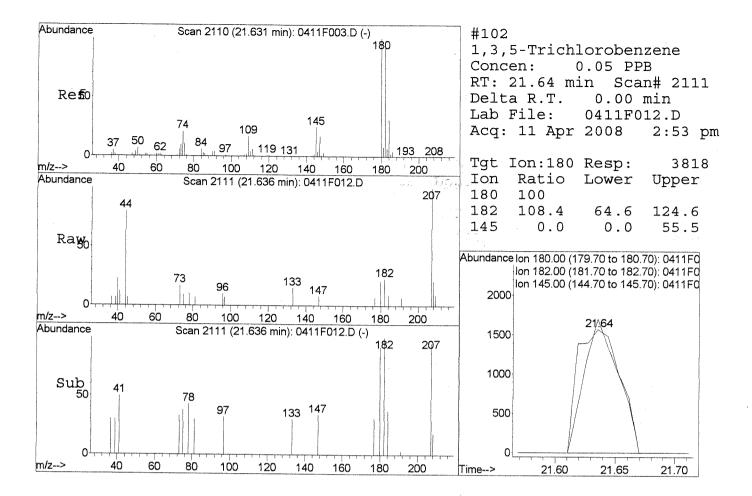
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Page 6



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Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request: K0802796
Project:	Kuhlman Electric	Date Collected: 03/28/2008
Sample Matrix:	Water	Date Received: 04/01/2008

Volatile Organic Compounds

Volatile Organic Compounds							
Sample Name: Lab Code:	KEP-GW-020B-003 K0802796-002		Units: Basis:	0			
Extraction Method: Analysis Method:	EPA 5030B 8260B		Level:	Low			

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	<u>MRL</u>	MDL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane	ND U		0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	ND U	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	ND U	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	ND U	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	19	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	ND U	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	ND U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	0.21 J	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND U	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND U	0.50	0.14	. 1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND U		0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	ND U		0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND U	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND U		0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND U		2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Merged

Page

Analytical Results

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric Sample Matrix: Water

Volatile Organic Compounds

Sample Name:	KEP-GW-020B-003	Units:	0
Lab Code:	K0802796-002	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND U	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND U	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND U	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND U	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

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Page SuperSet Reference:

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2 of 3

Service Request: K0802796

Date Collected: 03/28/2008

Date Received: 04/01/2008

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	KEP-GW-020B-003 K0802796-002				Units: ug/L Basis: NA
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	α, στρειώς του του του του του του του του
Dibromofluorometha	ne 111	75-120	04/11/08	Acceptable	
Toluene-d8	121	80-128	04/11/08	Acceptable	
4-Bromofluorobenzer	ne 106	75-117	04/11/08	Acceptable	

Comments:

Merged

Data File:	J:\MS04\DATA\041108\0411F013.D
Lab ID:	K0802796-002
RunType:	SMPL
Matrix:	WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID: 04/11/2008 15:25 04/11/2008 16:00 KWG0803340 8260B LJ8580

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	х	
Analytical Holding Time	NA	NA	NA	х	
Preparation Holding Time	NA	NA	NA	X	
Pre-Preparation Holding Time	NA	NA	NA	х	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	х	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	х	
Second Source ICAL Verification	NA	NA	NA	X	
Calibration Verification Pass/Fail	NA	NA	NA	X	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		X
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	X	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	• NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	2-Butanone (MEK)	0.0099	0.01	NA	MRLCheck
Lab Control Spike	1,1,1-Trichloroethane (TCA)	127	65	126	Advisory

Primary Review: Secondary Review:

Page 1 of 1

Quantitation Report

	•										
: le: 82	50B VOC_FP			Tier: Collect Date:	III 03/28	/2008					
Method: 82	50B			Prep Lot: Prep Method: Prep Date:	EPA :	50 3 0B	Report	Group:	K08027	96	
Vc : J:\]	latile Organic (MS04\DATA\0	Compounds 41108\041	s IF00 2 .D				Report Method	List ID: ID:	LJ8580 MJ119		
e: 04. :: SN	/11/2008 15:25 fPL		IF013.D	Quant Date:	04/11.	/2008 16:00	Vial: Dilutior	1:	MS04 13 1.0 PPB		
	Compounds	рт	RT Dev		Quant Mass	Desponso	Solution				
probenzene probenzene-d: Dichlorobenz	ene-d4	13.11 17.39 20.03	-0.01 0.00 0.00		96 117 152	1926216 1471848 755091	10.00 10.00 10.00			OK OK OK	<u></u>
meter Name		RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	. <u> </u>	Rpt
iene-d8		12.00 15.46 18.74	0.01 0.01 0.00	0.00 0.00 0.00	113 98 95	560160 1768743 620873	11.08 12.09 10.62	111 121 106	75-120 80-128 75-117	OK OK OK	
ompounds						Final	Conc. Units:	ug/L			
meter Name		RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	~		Q	Rpt
llorodifluoron promethane /l Chloride	nethane			*****	85 50 62	0 0 d 0		0.14		U U U	
nomethane proethane hlorofluorome	ethane				94 64 101	0 0 0		0.23		U U U	
Dichloroether one oon Disulfide	e	8.06 8.12 8.55	0.01	0.00 0.00 0.00	96 43 76	879806 15284 2276	18.65 3.06 0.0100	19 4.1		U U	
hylene Chlori					84 96	0		0.20		U U	
s-1,2-Dichloro Dichloroethan		10.16	0.01	0.00	63	20766	0.2100	0.21		J	
	e: 824 ot: KV Iethod: 824 704 thod: J:\1 Vo J:\1 J:\1 e: 044 : SN K0 Standard C meter Name robenzene robenzene robenzene robenzene robenzene robenzene fobenzene robenzene fobenzene fobenzen	e: 8260B VOC_FP ot: KWG0803340 Iethod: 8260B 700851 thod: J:\MS04\METHO Volatile Organic 0 J:\MS04\DATA\0 J:\MS04\DATA\0 J:\MS04\DATA\0 J:\MS04\DATA\0 SMPL K0802796-002 Standard Compounds meter Name robenzene robenzene-d5 Dichlorobenzene-d4 <i>e Compounds</i> meter Name comofluoromethane ene-d8 pmofluorobenzene <i>Dimpounds</i> meter Name lorodifluoromethane romethane romethane romethane romethane romethane lorodifluoromethane romethane romethane romethane lorodifluoromethane romethane romethane lorodifluoromethane romethane romethane lorodifluoromethane romethane lorodifluoromethane romethane romethane romethane romethane romethane lorodifluoromethane romethane romethane romethane lorodifluoromethane romethane romethane romethane	e: 8260B VOC_FP tot: KWG0803340 Aethod: 8260B 700851 thod: J:\MS04\METHODS\101007 Volatile Organic Compounds J:\MS04\DATA\041108\0411 J:\MS04\DATA\041108\0411 J:\MS04\DATA\041108\0411 S: 04/11/2008 15:25 SMPL K0802796-002 Standard Compounds meter Name RT robenzene 13.11 robenzene-d5 17.39 Dichlorobenzene-d4 20.03 <i>e Compounds</i> meter Name RT omofluoromethane 12.00 ene-d8 15.46 omofluoromethane 18.74 <i>ompounds</i> meter Name RT lorodifluoromethane 1 Chloride momethane 1 Chloride Dichlorobenzene 8.06 one 8.12 on Disulfide 8.55	e: 8260B VOC_FP 	E: 8260B VOC_FP Collect Date: ot: KWG0803340 Prep Lot: Prep Method: 700851 Prep Method: Prep Date: 700851 Prep Method: Prep Date: 700851 Prep Method: Prep Date: 700851 Quant Date: 700851 Quant Date: 700851 Quant Date: $3.1MS04\DATA\041108\0411F002.D$ $3.MS04\DATA\041108\0411F013.D$ $3.MS04\DATA\041108\0411F013.D$ $3.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\DATA\041108\0411F013.D$ $4.MS04\0ATA\041108\0411F013.D$	e: 8260B VOC_FP Collect Date: 03/28 oot: KWG0803340 Prep Lot: KWG fethod: 8260B Prep Method: EPA 3 700851 Prep Date: 04/11 Thomage: Second S J:MS04/METHODS/101007MS04-8 Volatile Organic Compounds 04/11 J:MS04/DATA/041108/0411F002.D J:MS04/DATA/041108/0411F002.D 04/11 :: 04/11/2008 15:25 Quant Date: 04/11 :: SMPL K0802796-002 04/11 Standard Compounds 111 -0.01 96 robenzene 13.11 -0.01 96 robenzene-d5 17.39 0.00 117 Dichlorobenzene-d4 20.03 0.00 152 e Compounds 117 0.00 96 omofluoromethane 12.00 0.01 0.00 113 ene-d8 15.46 0.01 0.00 98 omofluorobenzene 18.74 0.00 0.00 95 ompounds Stote 62 62 62 omofluorome	Bit Second Sec	B260B VOC_FP Collect Date: 03/28/2008 Receive ot: KWG0803340 Prep Lot: EVAG0803341 Report fethod: 8260B Prep Method: EPA 5030B Report foot: J-MS04VMETHODSV101007MS04-8 EPA 5030B Report volatile Organic Compounds Report Report J-MS04VDATAV041108V0411F002.D Wethod: J-MS04VDATAV041108V0411F002.D Report J-MS04VDATAV041108V0411F003.D Quant Date: 04/11/2008 16:00 Vial: SMPL SMP1 Duttion Solution Solution robenzene 13.11 -0.01 96 1926216 10.00 Standard Compounds RT Dev Mass Response Solution orbenzene-d5 17.39 0.00 117 1471848 10.00 Stenderobenzene-d4 20.03 0.00 152 75591 10.00 pmothurobenzene 15.46 0.01 0.00 98 1768743 12.09 omofluorobenzene 18.74	s260B VOC_FP Collect Date: 03/28/2008 Receive Date: ot: KWG0803340 2800B Prep Lot: KWG0803341 EPA 500B Report Group: 700851 Prep Date: 04/11/2008 Calibration ID: EPA 500B Report Group: 700851 JAMS04METHODSM01007MS04-8 Volatile Organic Compounds JAMS04DATA(0411080411F002.D JAMS04DATA(0411080411F002.D JAMS04DATA(0411080411F003.D Keport List ID: Method ID: JAMS04DATA(0411080411F013.D Network 1000 Quant Date: 04/11/2008 16:00 Vial: Dilution: Soln Cone. Units: SMPL K0802796-002 SMET Quant Date: 04/11/2008 16:00 Vial: Dilution: Soln Cone. Units: Standard Compounds ichlorobenzene-d5 17.39 0.00 117 1471848 10.00 ecompounds Tober Prev Mass Response Solution Cone 560160 ecompounds RT Per Dev Mass Response Solution Cone ecompounds RT Per Name Response Solution Cone * ecompounds RT Per Name Response Solution Cone * ecompounds RT </td <td>Receive Date: Outcome Date: O3/28/2008 Receive Date: O4/01/2 ot: KWG0803340 Prep Lot: KWG0803341 Report Group: K08027 ot: S260B Prep Metho: EPA 5030B Report Group: K08027 Totol: JMS04/METHODSV101007MS04-8 Prep Metho: 04/11/2008 Report Group: K08027 Volatile Organic Compounds JMS04/DATA/041108/0411F002.D JMS04/DATA/041108/0411F002.D Method ID: MJ119 yMS04/DATA/041108/0411F013.D Quant Date: 04/11/2008 16:00 Instrument: MS04 SMPL SMPL Colleot Date: 04/11/2008 16:00 Date: 04/11/2008 16:00 Standard Compounds Method D2 Date: 04/11/2008 16:00 Date: 04/11/2008 16:00 Standard Compounds Tobe: Solution 10 Solution 10 Standard Compounds RT Prev Mass Response Solution Cone Standard Compounds RT Prev Dev Mass Response Solution Cone<</td> <td>e: \$250B VOC_FP Collect Date: 03/28/2008 Receive Date: 04/01/2008 of: KWG0803340 700851 Prep Lat: KWG0803341 EPA 5030B 700851 Receive Date: 04/01/2008 hed: JAMS04/METHODS/01007MS04-8 Volatile Organic Compounds J-MS04/DATA/041108/0411P002.D J-MS04/DATA/041108/0411P002.D KWG0803341 EPA 5030B Nethod ID: Report Group: Method ID: K0802796 Method ID: MJ119 Quant based on Report List ID: LJ8580 Method ID: :: 04/11/2008 152.5 Quant Date: 04/11/2008 16:00 Viat: 13 ID: :: SMPI- K0802796-002 Solution K0802796-002 Report Solution Method ID: MS04 Method ID: MS119 :: SMPI- K0802796-002 J-MS04/DATA/041108/0411F013.D Quant Date: 04/11/2008 16:00 OK MS04 Cone Cone Cone</td>	Receive Date: Outcome Date: O3/28/2008 Receive Date: O4/01/2 ot: KWG0803340 Prep Lot: KWG0803341 Report Group: K08027 ot: S260B Prep Metho: EPA 5030B Report Group: K08027 Totol: JMS04/METHODSV101007MS04-8 Prep Metho: 04/11/2008 Report Group: K08027 Volatile Organic Compounds JMS04/DATA/041108/0411F002.D JMS04/DATA/041108/0411F002.D Method ID: MJ119 yMS04/DATA/041108/0411F013.D Quant Date: 04/11/2008 16:00 Instrument: MS04 SMPL SMPL Colleot Date: 04/11/2008 16:00 Date: 04/11/2008 16:00 Standard Compounds Method D2 Date: 04/11/2008 16:00 Date: 04/11/2008 16:00 Standard Compounds Tobe: Solution 10 Solution 10 Standard Compounds RT Prev Mass Response Solution Cone Standard Compounds RT Prev Dev Mass Response Solution Cone<	e: \$250B VOC_FP Collect Date: 03/28/2008 Receive Date: 04/01/2008 of: KWG0803340 700851 Prep Lat: KWG0803341 EPA 5030B 700851 Receive Date: 04/01/2008 hed: JAMS04/METHODS/01007MS04-8 Volatile Organic Compounds J-MS04/DATA/041108/0411P002.D J-MS04/DATA/041108/0411P002.D KWG0803341 EPA 5030B Nethod ID: Report Group: Method ID: K0802796 Method ID: MJ119 Quant based on Report List ID: LJ8580 Method ID: :: 04/11/2008 152.5 Quant Date: 04/11/2008 16:00 Viat: 13 ID: :: SMPI- K0802796-002 Solution K0802796-002 Report Solution Method ID: MS04 Method ID: MS119 :: SMPI- K0802796-002 J-MS04/DATA/041108/0411F013.D Quant Date: 04/11/2008 16:00 OK MS04 Cone Cone Cone

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 17:15:24 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

Data File:	J:\MS04\DATA\041108\0411F013.D				Instrument:	MS04
Acqu Date:	04/11/2008 15:25	Quant Date:	04/11/2008	16:00	Vial:	13
Run Type:	SMPL				Dilution:	1.0
Lab ID:	K0802796-002				Soln Conc. Units:	PPB

larg	get Compounds					Final (Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Bromochloromethane				128	0		0.17	U	
1	Chloroform	11.71		0.00	83	6142	0.0700	0.14	U	
1	1,1,1-Trichloroethane (TCA)	12.09		0.00	97	2922	0.0400	0.12	U	
1	Carbon Tetrachloride			· · · ·	117	0		0.14	U	
1	1,1-Dichloropropene				75	0		0.15	U	
1	Benzene	12.71		0.00	78	7876	0.0400	0.14	U	
1	1,2-Dichloroethane (EDC)				62	0 d		0.12	U	
1	Trichloroethene (TCE)				95	0		0.14	U	
1	1,2-Dichloropropane				63	0		0.14	U	
1	Dibromomethane				93	0		0.12	U	
1	Bromodichloromethane				83	0		0.11	U	
1	cis-1,3-Dichloropropene				75	0		0.11	U	
1	4-Methyl-2-pentanone (MIBK)				100	0 d		2.7	U	
1	Toluene	15.55		0.00	92	4311	0.0300	0.11	Ũ	
2	trans-1,3-Dichloropropene	10.00		0.00	75	0	0.0000	0.090	Ū	
2	1,1,2-Trichloroethane				83	0		0.14	U	
2	Tetrachloroethene (PCE)				164	0		0.13	Ū	
2	2-Hexanone				57	0		4.0	Ŭ	
					76	0		0.15	U	
2 2	1,3-Dichloropropane Dibromochloromethane				129	0		0.13	U	
2	1,2-Dibromoethane (EDB)				129	0		0.099	Ŭ	
	Chlorobenzene				112	0		0.14	U	
2 2	Ethylbenzene				112	0 0 d		0.14	U	
2	1,1,1,2-Tetrachloroethane				131	0 d		0.13	U	
	-				106	0 d		0.22	U	
2	m,p-Xylenes				106	0		0.22	U	
2 2	o-Xylene Styrene				100	0		0.095	U	
2	Bromoform				173	0		0.28 0.11	U U	
2 3	Isopropylbenzene 1,1,2,2-Tetrachloroethane				105 83	0 0		0.11	U	
			····· ···· .							
3	Bromobenzene				156	0		0.18	U	
3	n-Propylbenzene				91	0 d		0.098	U U	
3	1,2,3-Trichloropropane				110	0		0.24		
3	2-Chlorotoluene				91	0 d		0.12	U	
3	1,3,5-Trimethylbenzene				105	0		0.13	U	
3	4-Chlorotoluene				91	0	·	0.12	U	
3	tert-Butylbenzene				134	0		0.13	U	
3	1,2,4-Trimethylbenzene				105	0		0.15	U	
3	sec-Butylbenzene				105	0		0.13	U	
3	4-Isopropyltoluene				119	0		0.13	U	
3	1,3-Dichlorobenzene				146	0		0.11	U	
3	1,4-Dichlorobenzene				146	0		0.12	U.	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 17:15:24 u:\Stealth\Crystal.rpt\quant1.rpt

J:\MS04\DATA\041108\0411F013.D

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

* Result fails acceptance criteria # Acceptance criteria not applicable ? Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

Page 2 of 3

Acqu Run Lab	u Date: 04/11/2008 Type: SMPL ID: K0802796-00			Quant Date:	04/11/	2008 16:00	Instrume Vial: Dilution: Soln Con	13 1.0 c. Units: PPB		
Targ IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Final C Response	Conc. Units: Solution Conc	ug/L Final Conc	Q	Rpt?
3 3 3	n-Butylbenzene 1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropa	ne			91 146 157	0 d 0 0		0.23 0.12 1.0	U U U	
3 3 3	1,3,5-Trichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobutadiene	21.63		0.00	180 180 225	2970 0 0	0.0400	0.35 0.22 0.28	U U U	
3	Naphthalene 1,2,3-Trichlorobenzene	23.20	0.02	0.00	128 180	0 2081	0.0600	0.29 0.33	U U	
-	p Amount: 10 ml p Final Vol: 10 ml		Dilution Unit Fa		1.0 1					

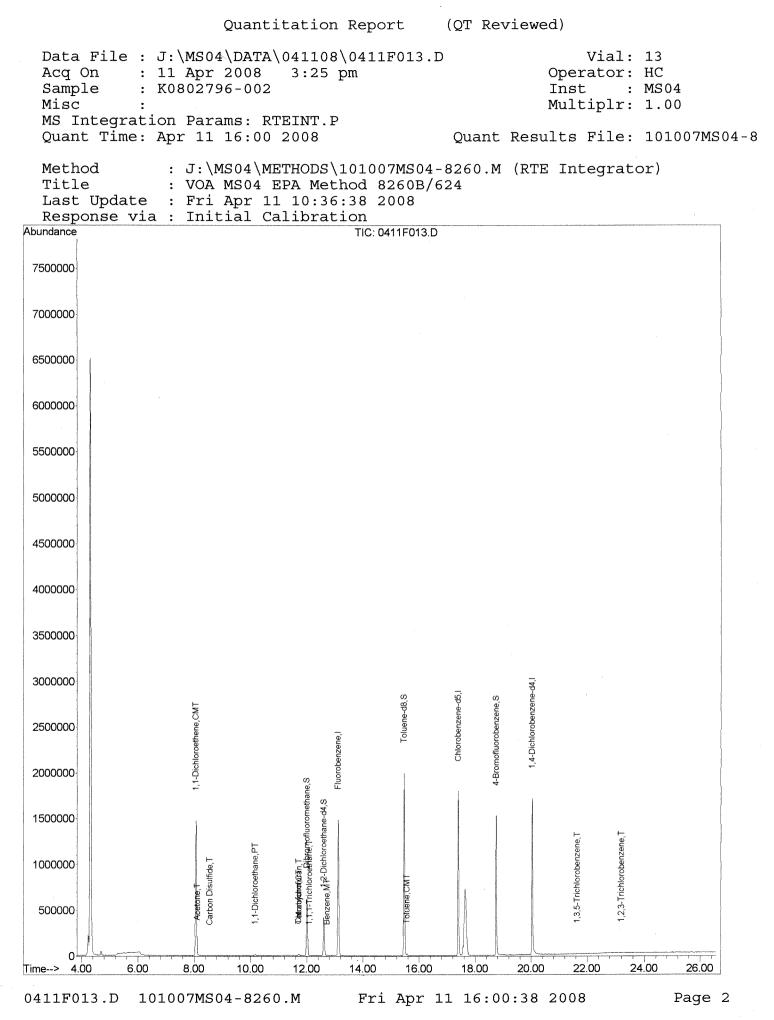
((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor Final Concentration =

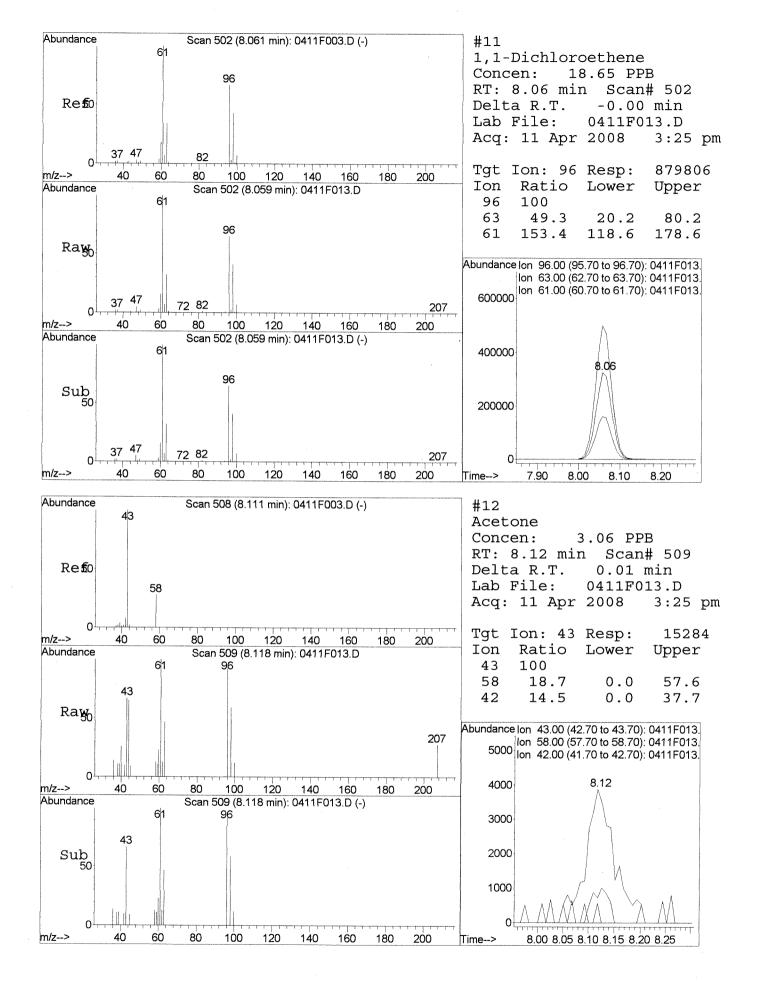
U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 17:15:24 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

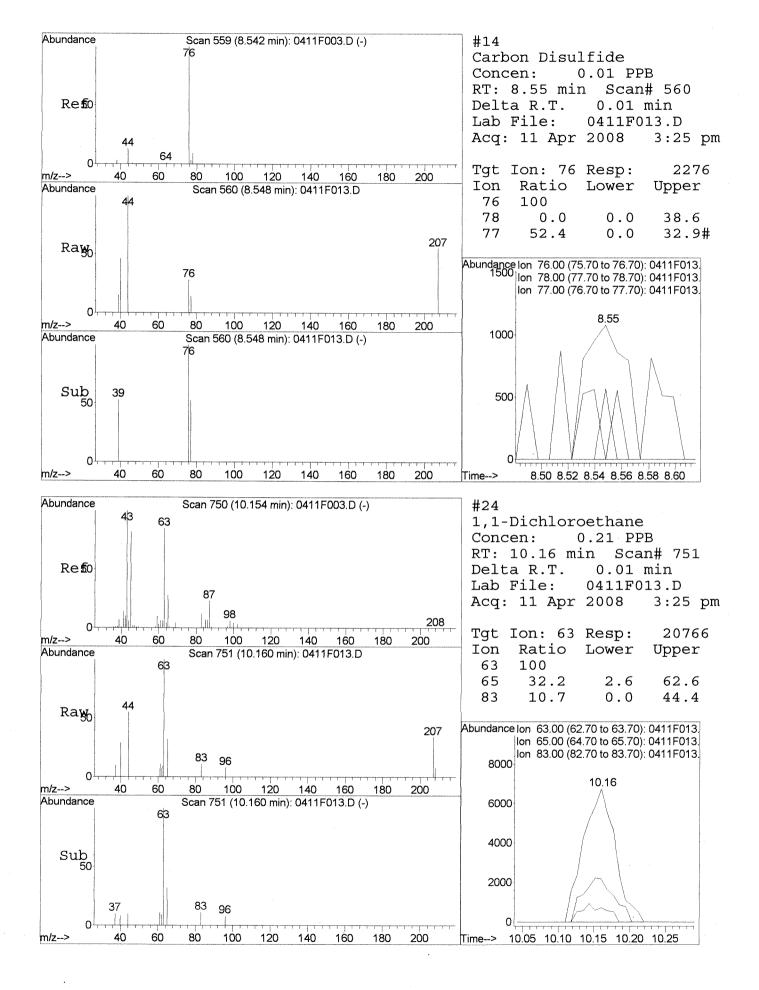
*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution





0411F013.D 101007MS04-8260.M

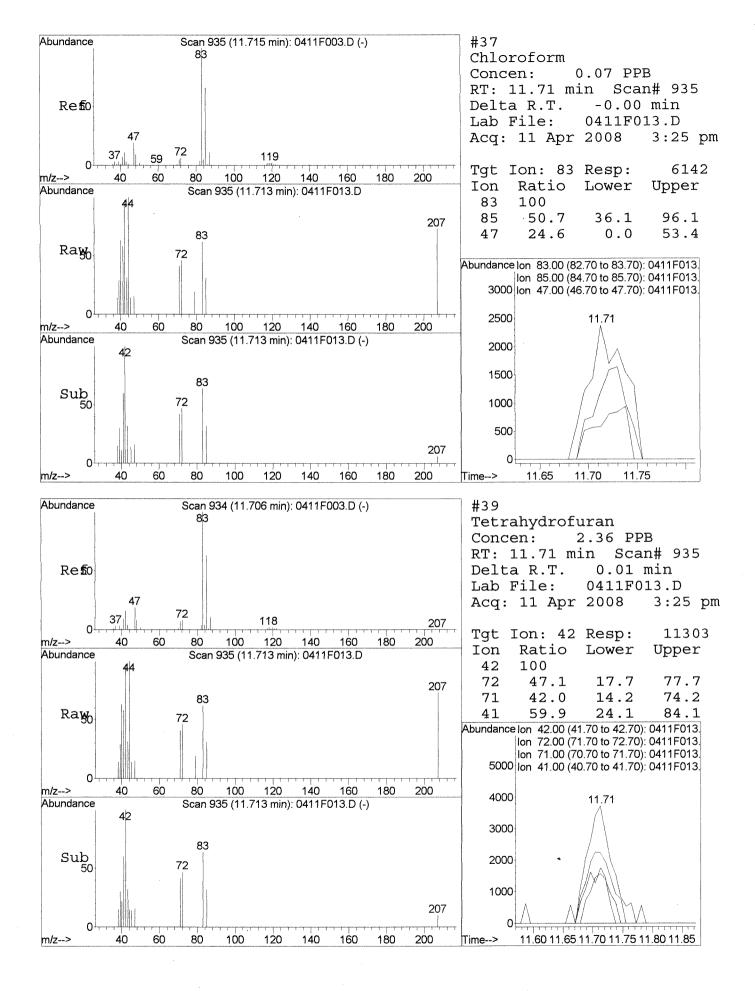
Fri Apr 11 16:00:38 2008

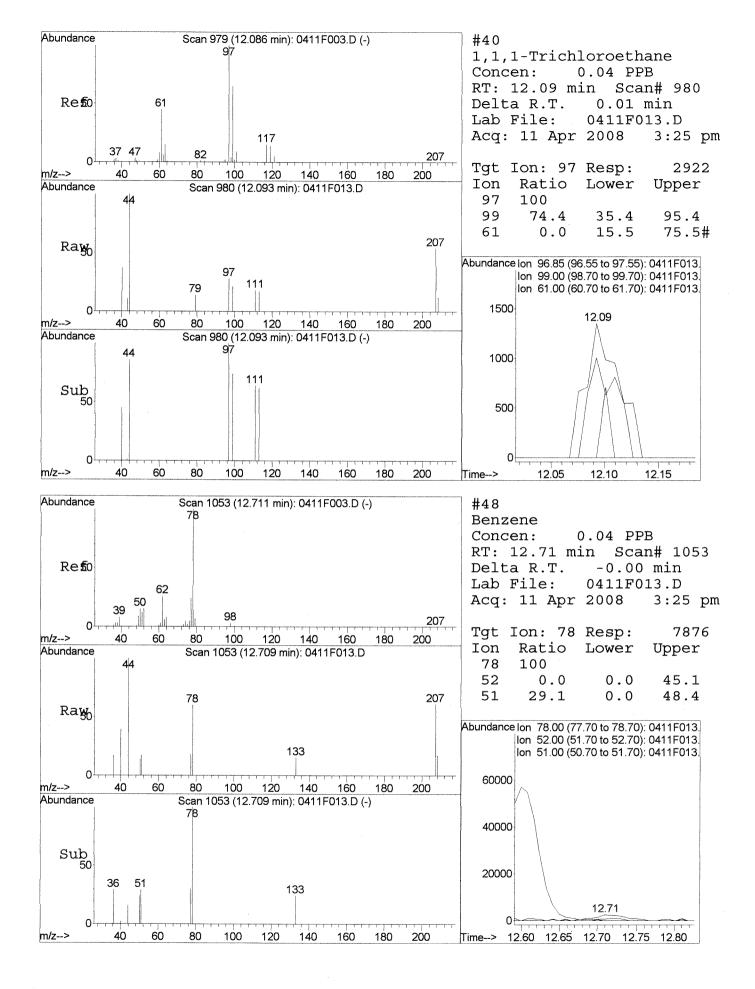


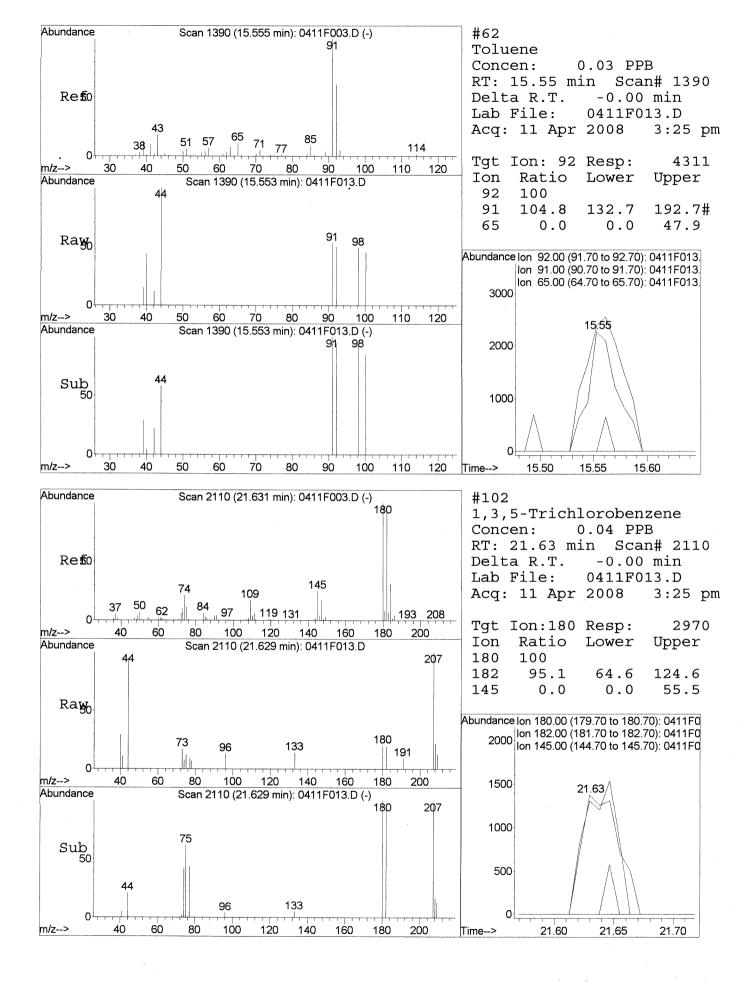
0411F013.D 101007MS04-8260.M

Fri Apr 11 16:00:39 2008

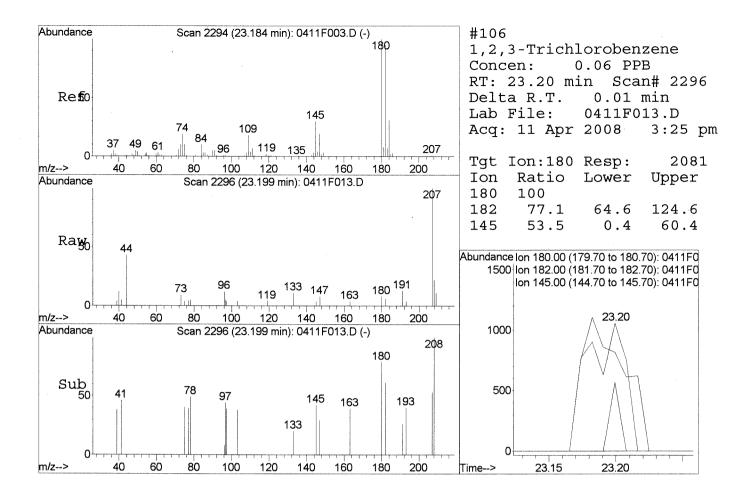
Page 4







0411F013.D 101007MS04-8260.M



0411F013.D 101007MS04-8260.M

Fri Apr 11 16:00:41 2008

Page 8

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	Duplcate 2	Units:	0
Lab Code:	K0802796-003	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result	0	MRL	MDL	Dilution	Date Entracted	Date	Extraction	Note
Dichlorodifluoromethane					Factor	Extracted	Analyzed	Lot KWG0803341	Note
Chloromethane	ND ND		0.50 0.50	0.17	1	04/11/08	04/11/08	KWG0803341 KWG0803341	
Vinyl Chloride	ND ND		0.50	0.14 0.042	1 1	04/11/08 04/11/08	04/11/08 04/11/08	KWG0803341	
Bromomethane	ND		0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane			0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	ND	U	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	4.5		0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND	U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	·
Methylene Chloride			2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND	U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND	U	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND	U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND	U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	0.39	J	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND	U	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND	U	20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Form 1A - Organic

1 of 3

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	Duplcate 2	Units:	0
Lab Code:	K0802796-003	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND U	0.50	0.13		Extracted 04/11/08	04/11/08	KWG0803341	Note
Dibromochloromethane	ND U ND U	0.50	0.13	1 1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND U	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND U	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND U	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND U	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Form 1A - Organic 84

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	Duplcate 2 K0802796-003			Units: ug/L Basis: NA
		Control	Data	

Surrogate Name	%Rec	Limits	Analyzed	Note	
Dibromofluoromethane	112	75-120	04/11/08	Acceptable	
Toluene-d8	122	80-128	04/11/08	Acceptable	
4-Bromofluorobenzene	107	75-117	04/11/08	Acceptable	

Comments:

Merged

 Data File:
 J:\MS04\DATA\041108\0411F014.D

 Lab ID:
 K0802796-003

 RunType:
 SMPL

 Matrix:
 WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID: 04/11/2008 15:57 04/11/2008 16:38 KWG0803340 8260B LJ8580

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	х	
ICAL Analyte Recovery	NA	NA	NA	х	
Initial Calibration Minimum RF	NA	NA	NA		X
Initial Calibration SPCC/CCC	NA	NA	NA	х	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		X
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	2-Butanone (MEK)	0.0099	0.01	NA	MRLCheck
Lab Control Spike	1,1,1-Trichloroethane (TCA)	127	65	126	Advisory

th 4.11.08 Primary Review: Secondary Review: 1 of 1 Page

Quantitation Report

Bottl Prod	e ID: Code:	8260B VOC_FP			Tier: Collect Date:	III 03/28/	2008	Matrix: Receive J		VATER 4/01/200)8	
	ysis Lot: ysis Method: Ref:	KWG0803340 8260B 700852			Prep Lot: Prep Method: Prep Date:	KWG(EPA 5 04/11/		Report C	Group: K	(080279	6	
Title	e Ref:	J:\MS04\METHC Volatile Organic J:\MS04\DATA\0 J:\MS04\DATA\0	Compounds 41108\0411]	F002.D				Calibrat Report I Method Quant I	List ID: I	CAL6696 .J8580 /JJ119 port Lis		
Acqu	File: 1 Date: Type: ID:	J:\MS04\DATA\0 04/11/2008 15:5 SMPL K0802796-003		F014.D	Quant Date:	04/11/	2008 16:38	Instrum Vial: Dilution Soln Co	1 : 1	MS04 .4 1.0 PPB		
S		rd Compounds		RT		Quant	Desperance	Solution Conc			Area riteria	
Ref	Parameter Na		RT	Dev		Mass	Response					
	Fluorobenzer		13.12	0.00		96	1943344	10.00 10.00			OK OK	
	Chlorobenzer		17.39	0.00 0.00		117 152	1520775 777869	10.00			OK	
	1,4-Dichlorol		20.03	0.00		152	111007	10.00			~	
Surr S	ogate Comp	ounas		RT	RRT	Quant		Solution		%Rec		
Ref	Parameter Na	ame	RT	Dev	Dev	Mass	Response	Conc	%Rec	Limits		Rpt
	Dibromofluo	romethane	12.00	0.01	0.00	113	568757	11.15		75-120	OK	
	Toluene-d8		15.46	0.01	0.00	98	1808401	12.23		80-128	OK	
	4-Bromofluo		18.74	0.00	0.00	95	646164	10.70		75-117	0K	
Targ	et Compou	nds					Final	Conc. Units:	ug/L			
IS Ref	Parameter Na	ame	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc		Q	Rpt
1	Dichlorodiflu	uoromethane				85	0		0.17		U	
1	Chlorometha					50	0 d		0.14		U	
1	Vinyl Chlori	de				62	. 0		0.042		U	
1	Bromometha					94	0 d		0.22		U	
1	Chloroethan					64	0		0.23 0.14		U U	
1	Trichlorofluc					101	0					
1	1,1-Dichloro	ethene	8.06	o o -	0.00	96 42	214572	4.51	4.5 4.1		U	
1	Acetone	16.4.	8.13	0.02		43 76	14649 2804	2.91 0.0100	4.1 0.16		U	
1	Carbon Disu		8.55	0.01	0.00			0.0100	0.10		U	
1	Methylene C					84 96	0		0.20		U	
1 1	trans-1,2-Die 1,1-Dichlore		10.17	0.02	0.00	90 63	3673	0.0400	0.11		Ŭ	
1						77	0	ar	0.18		U	
1	2,2-Dichloro cis-1,2-Dich					96	0		0.10		U	
1 1	2-Butanone					72	0		2.3		U	
J: Anal B: Hit a E: Anal	etected at or above N yte detected above N above MRL also four	MDL MDL, but below MRL nd in Method Blank sove high point of ICAL		m: Manu d: Comp	t from dilution al integration perform ound manually deleted lyte not reported from	1		*: Result fails accep #: Acceptance criter ?: Insufficient inforr e: Result >= MRL, c: check for co-elut	ria not applicable nation to determine but MRL less than	e acceptance low point of	e f ICAL	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 17:15:32 u:\Stealth\Crystal.rpt\quant1.rpt

J:\MS04\DATA\041108\0411F014.D 87

Page 1 of 3

1						
Data F	File:	J:\MS04\DATA\041108\0411F014.D			Instrument:	MS04
Acqu	Date:	04/11/2008 15:57	Quant Date:	04/11/2008 16:38	Vial:	14
Run T	ype:	SMPL			Dilution:	1.0
Lab II	D:	K0802796-003			Soln Conc. Units:	PPB

arg	et Compounds					Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	Bromochloromethane				128	0		0.17	U	
1	Chloroform	11.71		0.00	83	4941	0.0500	0.14	U	
1	1,1,1-Trichloroethane (TCA)				97	0		0.12	U	
1	Carbon Tetrachloride				117	0		0.14	U	
1	1,1-Dichloropropene				75	0		0.15	U	
1	Benzene	12.74	0.03	0.00	78	5652	0.0300	0.14	U	
1	1,2-Dichloroethane (EDC)				62	0 d		0.12	U	
1	Trichloroethene (TCE)				95	0		0.14	U	
1	1,2-Dichloropropane				63	0		0.14	U	
1	Dibromomethane	·			93	0		0.12	U	
1	Bromodichloromethane				83	0		0.12	U	
1	cis-1,3-Dichloropropene				75	0		0.11	Ŭ	
1	4-Methyl-2-pentanone (MIBK) Toluene	15.55		0.00	100 9 2	0 d	0.3900	2.7 0.39	U. J	
2	trans-1,3-Dichloropropene	15.55		0.00	92 75	49406 0	0.3900	0.39	J U	
2	1,1,2-Trichloroethane				83	0		0.14	U	
2	Tetrachloroethene (PCE)	16.31		0.00	164	2254	0.0400	0.13	U	
2	2-Hexanone			4 1.7	57	0		4.0	U	
2	1,3-Dichloropropane				76	0		0.15	U	
2	Dibromochloromethane				129	0 d		0.11	U	
2	1,2-Dibromoethane (EDB)				107	0		0.099	U	
2	Chlorobenzene				112	0		0.14	U	
2	Ethylbenzene				106	0 d		0.13	U	
2	1,1,1,2-Tetrachloroethane				131	0 d		0.12	U	
2	m,p-Xylenes				106	0 d		0.22	U	
2	o-Xylene				106	0		0.11	U	
2	Styrene				104	0		0.095	U	
2	Bromoform				173	0		0.28	U	
2	Isopropylbenzene				105	0		0.11	Ŭ	
3	1,1,2,2-Tetrachloroethane				83	0		0.14	U	
3	Bromobenzene				156	0		0.18	U	
3	n-Propylbenzene				91	0 0 d		0.098	U	
3	1,2,3-Trichloropropane				110	0		0.24	Ŭ	
3	2-Chlorotoluene				91	0 d		0.12	U	
3	1,3,5-Trimethylbenzene 4-Chlorotoluene				105 91	0		0.13 0.12	U U	
3			· · · ·			0				
3	tert-Butylbenzene				134	0		0.13	U	
3	1,2,4-Trimethylbenzene				105	0		0.15	U	
3	sec-Butylbenzene				105	0		0.13	U	
3	4-Isopropyltoluene				119	0		0.13	U	
3	1,3-Dichlorobenzene				146	0		0.11	U	
3	1,4-Dichlorobenzene				146	0		0.12	U	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 17:15:32 u:\Stealth\Crystal.rpt\quant1.rpt

J:\MS04\DATA\041108\0411F014.D

88

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

Acq	a File: u Date: Type: ID:	J:\MS04\DATA\041 04/11/2008 15:57 SMPL K0802796-003	108\0411	F014.D	Quant Date:	04/11/200	8 16:38	Instrume Vial: Dilution: Soln Cor	14	1	
Targ	et Compou	inds					Final	Conc. Units:	ug/L		
IS Ref	Parameter N	ame	RT	RT Dev	RRT Dev	QuantM ass I	Response	Solution Conc	Final Conc	Q	Rpt?
3	n-Butylbenz	ene				91	0 d		0.23	U	
3	1,2-Dichloro					146	0		0.12	U	
3	1,2-Dibrom	o-3-chloropropane				157	0		1.0	U	
3	1,3,5-Trichl	orobenzene				180	0		0.35	U	
3	1,2,4-Trichl	orobenzene				180	0		0.22	U	
3	Hexachlorol	outadiene				225	0		0.28	U	
3	Naphthalen	3				128	0		0.29	U	
3	1,2,3-Trichl	orobenzene				180	0		0.33	U	

Prep Amount: 10 ml **Dilution:** 1.0 **Prep Final Vol:** 10 ml Unit Factor: 1

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

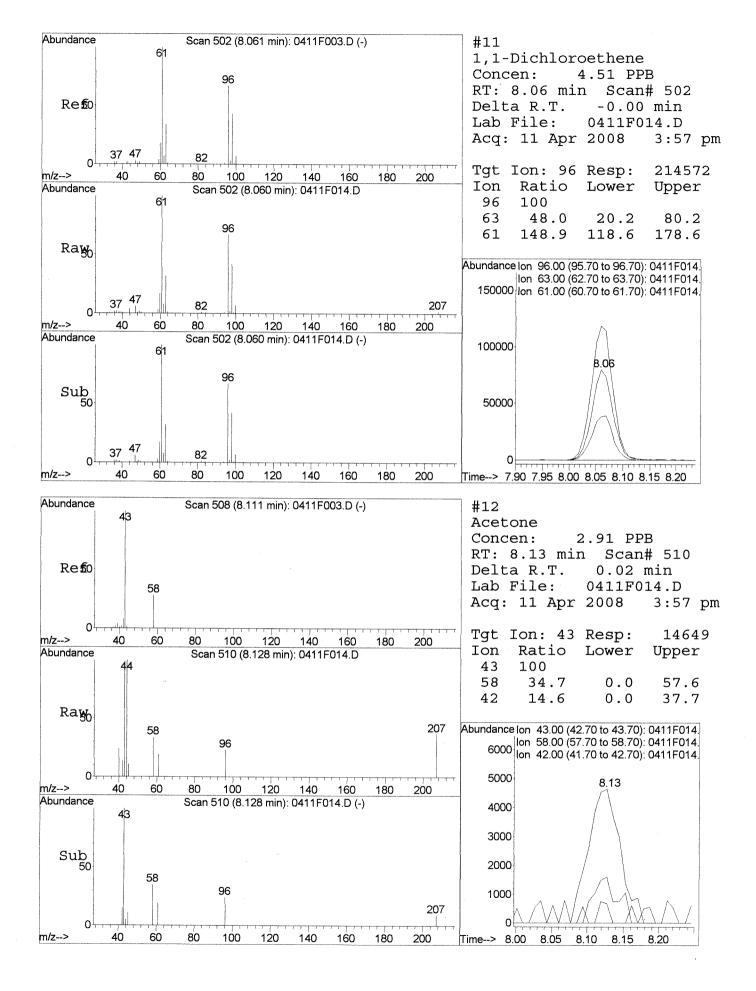
Printed: 04/11/2008 17:15:32 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution Nestati integration performed
 d: Compound manually deleted
 NR: Analyte not reported from this analysis

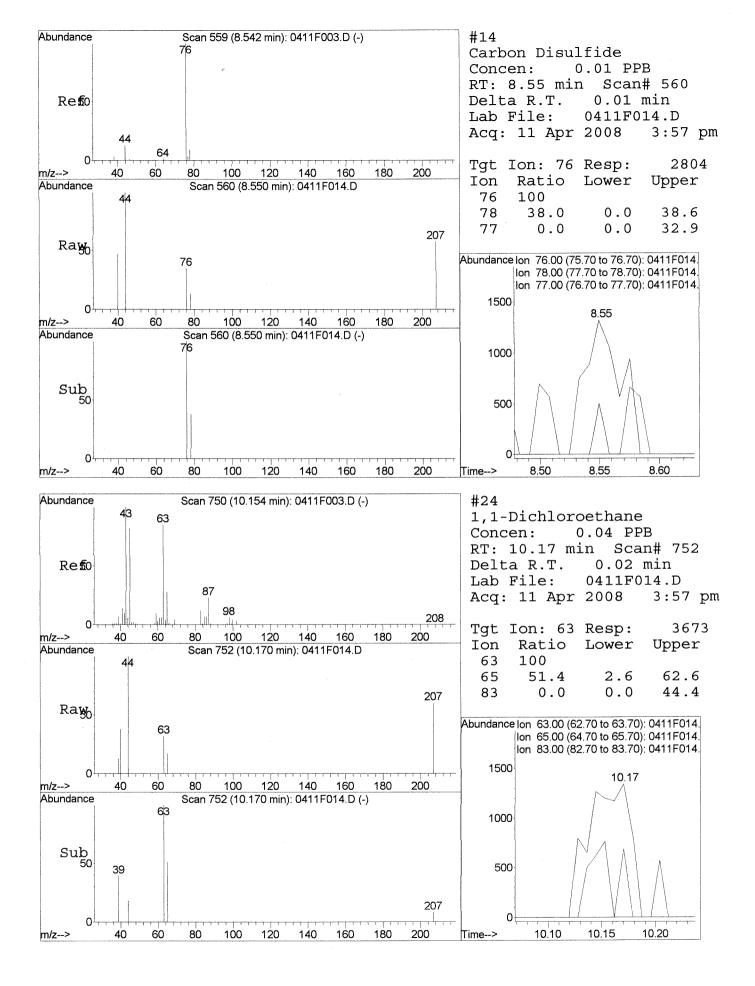
*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F014.D

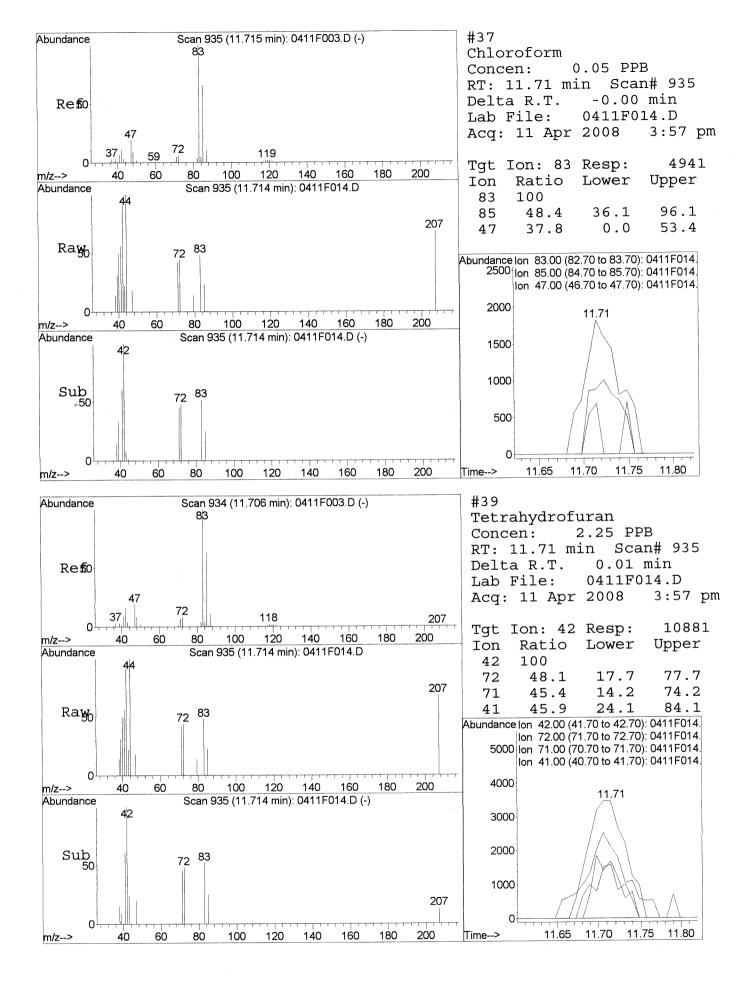
Quantitation Report	(QT Reviewed)
Data File : J:\MS04\DATA\041108\0411F014 Acq On : 11 Apr 2008 3:57 pm Sample : K0802796-003 Misc :	4.D Vial: 14 Operator: HC Inst : MS04 Multiplr: 1.00
MS Integration Params: RTEINT.P Quant Time: Apr 11 16:38 2008	Quant Results File: 101007MS04-8
Method : J:\MS04\METHODS\101007MS	
Title : VOA MS04 EPA Method 82601 Last Update : Fri Apr 11 10:36:38 2008	8/624
Response via : Initial Calibration Abundance TIC:0411F0	14.D
7500000	
7000000	
6500000	
6000000	
550000-	
5000000	
4500000	
4000000	
3500000	
3000000 2500000 	Chlorobenzene-d5,1 mofluorobenzene, S 1,4-Dichlorobenzene-d4,1
2500000 2000000 3° a	Chlorobenzene-c 4-Bromofluorobenzene, S 1,4-Dichlorobenzen
	4 E
Acetone, 1.1-Dichloroethene, CMT Acetone, 1.1-Dichloroethene, CMT Carbon Disulfide, T 1,1-Dichloroethane, PT 1,1-Dichloroethane, PT 1,1-Dichloroethane, A Benzene, MT2-Dichloroethane, S Benzene, CMT Fluc	
0000001 Acetone, fr. 1-Dichloroethene, CMT Carbon Disulfide, T Carbon Disulfide, T 1, 1-Dichloroethane, PT 1, 1-Dichloroethane, PT Calcarbiding Benzene, MT2-Dichloroethane, CMT	Tetrachloroethene,T
Tolue Benzen 000005	Tetract
0	00 18.00 20.00 22.00 24.00 26.00
0411F014.D 101007MS04-8260.M Fri Ap	r 11 16:38:52 2008 Page 2



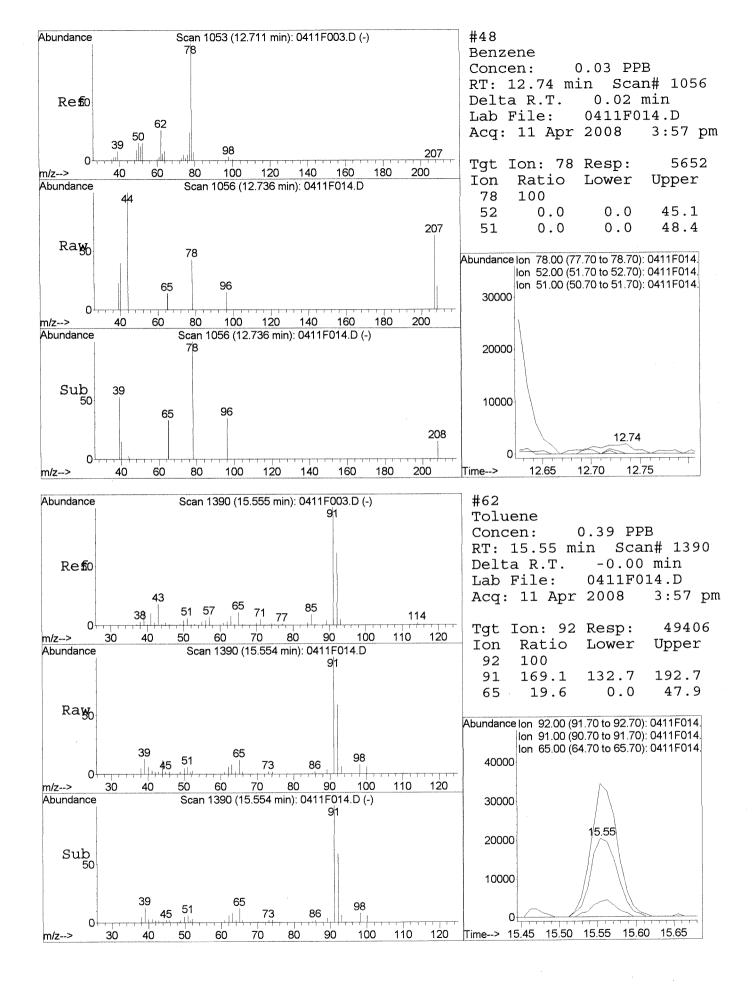
0411F014.D 101007MS04-8260.M

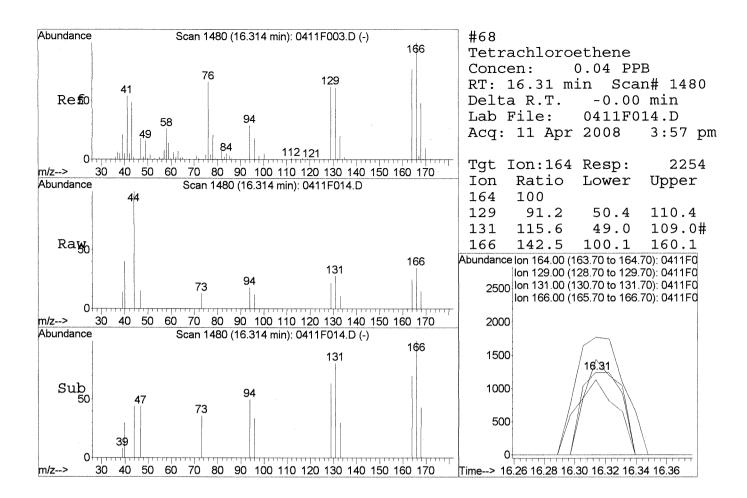


Page 4



0411F014.D 101007MS04-8260.M





0411F014.D 101007MS04-8260.M

Fri Apr 11 16:38:55 2008

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Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	0
Lab Code:	KWG0803341-4	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

		_			Dilution	Date	Date	Extraction	
Analyte Name	Result		MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND		0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane	ND		0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	ND	U	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	ND	U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	ND	U	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	ND	U	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	ND	U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	ND	U	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	ND	U	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	ND	U	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	ND	U	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	ND	U	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	ND	U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	ND	U	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	ND	U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	ND	U	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	ND	U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	ND		20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	ND	U	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

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Page

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name:	Method Blank	Units:	
Lab Code:	KWG0803341-4	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	ND U	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	ND U	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	ND U	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	ND U	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	ND U	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	ND U	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	ND U	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	ND U	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	ND U	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	ND U	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	ND U	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	ND U	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	ND U	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	ND U	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	ND U	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	ND U	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	ND U	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	ND U	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	ND U	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	ND U	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	ND U	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	ND U	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

2 of 3

Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:	Method Blank KWG0803341-4				Units: ug/L Basis: NA
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	

Dibromofluoromethane	110	75-120	04/11/08	Acceptable	
Toluene-d8	120	80-128	04/11/08	Acceptable	
4-Bromofluorobenzene	110	75-117	04/11/08	Acceptable	

Comments:

98

Merged

Data File:	J:\MS04\DATA\041108\0411F009.D
Lab ID:	KWG0803341-4
RunType:	MB
Matrix:	WATER

04/11/2008 13: 7 04/11/2008 14: 4 KWG0803340 8260B MJ119

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	X	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	X	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0007	0.01	NA	NT
	tert-Butyl Alcohol	0.0067	0.01	NA	
	Isobutyl Alcohol	0.0027	0.01	NA	
	2-Butanone (MEK)	0.0099	0.01	ŇA	MRL Check
Continuing Calibration Recovery	Tetrahydrofuran	203.5	NA	30	NT
Continuing Calibration Minimum RF	1,4-Dioxane	0.0010	0.01	NA	
	tert-Butyl Alcohol	0.0062	0.01	NA	
	Isobutyl Alcohol	0.0029	0.01	NA	L :

4.11.02 Primary Review: Secondary Review: Page 1 of 1

Quantitation Report

1	tle ID: od Code:	8260B VOC_FP			Tier: Collect Date:			Matrix Receive		WATEF 04/11/2		
	alysis Lot: alysis Method:	KWG0803340 8260B		- · · <u>.</u>	Prep Lot: Prep Method	: EPA	0803341 5030B	Report	Group:			-
Pre	p Ref:	700866			Prep Date: 04/11/2008							
		J:\MS04\METHO	DS\101007	'MS04-8				Calibra	tion ID:	CAL669	96	
	ne Ref: B Ref:	J:\MS04\DATA\04	41108\041	1F002.D				Methoo Quant	l ID: based on N	MJ119 fethod		
	a File:	J:\MS04\DATA\04		IF009.D				Instrum	nent:	MS04	·····	
	u Date:	04/11/2008 13:17			Quant Date:	04/11	/2008 14:14	Vial:		9		
	n Type: o ID:	MB KWG0803341-4						Dilution Soln Co	n: onc. Units:	1.0 PPB		
Inte	rnal Standar	d Compounds										
IS Ref	Parameter Nar	ne	RT	RT Dev		Quant Mass	Response	Solution Conc			Area Criteria	
	Fluorobenzene	2	13.12	0.00		96	2021122	10.00			OK	
	Chlorobenzene	e-d5	17.39	0.00		117	1532545	10.00			OK	
	1,4-Dichlorobe	enzene-d4	20.03	0.00		152	820087	10.00			OK	
	rogate Compo	ounds										
S Ref	Parameter Nar	ne	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt
	Dibromofluoro	omethane	12.00	0.01	0.00	113	584287	11.01	110	75-120	OK	
	1,2-Dichloroet	hane-d4	12.60	0.01	0.00	65	425060	11.76	118	62-121	OK	
	Toluene-d8		15.46	0.01	0.00	98	1837986	11.98	120	80-128		
	4-Bromofluoro	obenzene	18.74	0.00	0.00	95	669738	11.00	110	75-117		
Targ	get Compoun	ds				·····	Final	Conc. Units:	ug/L			
IS Ref	Parameter Nan	ne	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fina Con		Q	Rpt
1	Dichlorodifluo					85	0		0.17	7	U	
1	Chloromethan					50	0		0.14	ļ	U	
1	Vinyl Chloride	3				62	0		0.04	2	U	
1	Bromomethane	3				94	0 d		0.22	2	U	
1	Chloroethane					64	0		0.23		U	
1		methane (CFC 21					0		0.40)	U	
1	Trichlorofluoro	omethane				101	0		0.14		U	
1	Ethyl Ether Trichlorotriflue	araathara				59	0		0.05		U	
						151	0		0.14		U	
1	1,1-Dichloroet Acetone	nene	0 10	0.01	0.00	96	0		0.13		U	
1	Iodomethane		8.12	0.01	0.00	43 127	6302 0	1.20	4.1 0.38		U U	
1	Carbon Disulfi	de				76	0					
1	Acrolein					76 56	0		0.16 6.7	•	U U	
Analy Hit al Analy	tected at or above MDI te detected above MDI bove MRL also found ir rte concentration above imptive evidence of cor	, but below MRL 1 Method Blank high point of ICAL		d: Compou	rom dilution integration performe nd manually deleted e not reported from t			*: Result fails accept #: Acceptance oriter ?: Insufficient inform e: Result >= MRL, b c: check for co-eluti	ance criteria ia not applicable iation to determin ut MRL less than			

Printed: 04/11/2008 15:51:16

 $u:\label{eq:linear} u:\label{eq:linear} u:\l$

J:\MS04\DATA\041108\0411F009.D

1								-
	Data File:	J:\MS04\DATA\041108\0411F009.D				Instrument:	MS04	
	Acqu Date:	04/11/2008 13:17	Quant Date:	04/11/2008	14:14	Vial:	9	
	Run Type:	MB				Dilution:	1.0	
	Lab ID:	KWG0803341-4				Soln Conc. Units:	PPB	

arg	get Compounds					Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene			****	41	0 d		0.16	U.	
1	Acetonitrile				41	0 d		7.5	U	e e como de maneiro de
1	Methylene Chloride	8.93	0.01	0.00	84	6263	0.0900	0.20	U	1997 - 19
1	tert-Butyl Alcohol				59	0		1.1	U	(V) ***
1	Methyl tert-Butyl Ether				73	0		0.20	Ü	
1	trans-1,2-Dichloroethene				96	0		0.15	Ŭ	
1	n-Hexane	9.82		0.00	57	2106	0.0300	0.19	U	
1	1,1-Dichloroethane				63	0		0.11	U	
1	Vinyl Acetate				86	0		0.91	U	
1	Acrylonitrile				53	0		0.54	Ū	
1	Diisopropyl Ether				45	0		0.25	U	
1	Chloroprene				88	0		0.35	U	
1	tert-Butyl Ethyl Ether				59	0		0.075	U	
1	2,2-Dichloropropane				77	0		0.18	U	
1	Ethyl Acetate				70	0		0.18	U	
1	cis-1,2-Dichloroethene				96	. 0		0.12	U	
1	2-Butanone (MEK)				72	0		2.3	U	
1	Propionitrile				54	0		2.3 1.3	U	
1	Methacrylonitrile				67	0		0.45	U	
1	Bromochloromethane				128	0				
1	Chloroform				83	0		0.17 0.14	U U	
1	tert-Butyl Formate				59	0		0.14	U	
1	Tetrahydrofuran	11.71		0.00	42	103504	20.57			
1	1,1,1-Trichloroethane (TCA)	11./1		0.00	42 97	0	20.37	20.6 0.12	U	
1	Isobutyl Alcohol				43	0		12	U	
1	Carbon Tetrachloride				117	0				
1	1,1-Dichloropropene				75	0		0.14 0.15	U U	
1	tert-Amyl Methyl Ether				55	0		0.15	U U	
1	Benzene	12.71		0.00	78	5426	0.0200			
1	1,2-Dichloroethane (EDC)	14./1		0.00	62	0 d	0.0200	0.14 0.12	U U	
1	Trichloroethene (TCE)				95	0		0.12	U	
1	Methyl Methacrylate				69					
	1,2-Dichloropropane				69 63	0		0.36 0.14	U	
1	1,4-Dioxane				88	0 0		26	U U	
1	Dibromomethane				93					
	Bromodichloromethane				93 83	0 0		0.12 0.11	U U	
	2-Chloroethyl Vinyl Ether				63	0		0.11	U U	
	2-Nitropropane				41					
	cis-1,3-Dichloropropene				41 75	0 0		2.0 0.11	U U	
	4-Methyl-2-pentanone (MIBK)				100	0 0 d		2.7	U U	
	Toluene						<u></u>			
	Ethyl Methacrylate				92 60	b 0		0.11	U	
-	Luryi Wichiaci yiate				69	b 0		0.13	U	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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D: Result from dilution

d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F009.D

Acq Rur	iu Date: 04/ n Type: MH	MS04\DATA\041 11/2008 13:17 3 VG0803341-4	108\0411	F009.D	Quant Date:	04/11	/2008 14:14	Instrume Vial: Dilution: Soln Con	9 1.0)4	a vannaferuariaa aanoo ka oo ka ah ahaa ahaa ahaa ka oo ka
Targ	get Compounds						Final	Conc. Units:	ug/L		14 OF 10 OF
IS Ref	Parameter Name		RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
2	n-Octane					85	.0	5 I.c.	0.29	U	
2	trans-1,3-Dichloro	propene				75	· · · · · · · · · · · · · · · · · · ·		0.090	U	1
2	1,1,2-Trichloroeth					83	0		0.14	U	
2	Tetrachloroethene	(PCE)				164	0		0.13	U	ne accentra accentra
2	2-Hexanone					57	0	the second second	4.0	U	
2	1,3-Dichloropropa					76	0		0.15	U	
2	Dibromochlorome	thane				129	0		0.11	U	
2	1,2-Dibromoethan	e (EDB)				107	0		0.099	U	1
2	1-Chlorohexane					55	0 d		0.13	U	2
2	Chlorobenzene					112	0		0.14	U	5 5
2	Ethylbenzene					106	0 d		0.13	U	: I
2	1,1,1,2-Tetrachlor	oethane				131	0 d		0.12	U	
2	m,p-Xylenes					106	0 d		0.22	U	
2	o-Xylene					106	0		0.11	U	
2	Styrene Dram a farm					104	0		0.095	U	
2	Bromoform	· · ·				173	0		0.28	U	
2	Isopropylbenzene	•				105	0		0.11	U	
3 3	cis-1,4-Dichloro-2 1,1,2,2-Tetrachlor					88	0 d		0.84	U	
		betnane				83	0		0.14	U	
3	Bromobenzene					156	0		0.18	U	
3 3	n-Propylbenzene trans-1,4-Dichloro	2 hutana				91	0 d		0.098	U	
			· · · · · · · · · · · · · · · · · · ·			53	0		0.60	U	
3	1,2,3-Trichloropro 2-Chlorotoluene	pane				110	0		0.24	U	
3	1,3,5-Trimethylber	77070				91	0 d		0.12	U	
						105	0 d	····	0.13	U	
3 3	4-Chlorotoluene tert-Butylbenzene					91	0 d		0.12	U	
3	1,2,4-Trimethylber	17000	19.57		0.00	134 105	0	0.0100	0.13	U	
							2532	0.0100	0.15	U	
3 3	sec-Butylbenzene 4-Isopropyltoluene		19.77 19.89		0.00	105	3312	0.0100	0.13	U	
3	1,3-Dichlorobenze		19.89		0.00	119 146	3854 0 d	0.0200	0.13 0.11	U U	
3	1,4-Dichlorobenze		20.06	0.01	0.00			~ ~ ~ ~ ~	······		
	n-Butylbenzene		20.06 20.36	0.01	0.00 0.00	146	2021	0.0100	0.12	U	
3	1,2-Dichlorobenze		20.00		0.00	91 146	6483 0 d	0.0300	0.23	U U	
3	1,2-Dibromo-3-chl								· · · · · · · · · · · · · · · · · · ·		
3	1,3,5-Trichloroben	· ·	2 1.64	0.01	0.00	157 180	0 15678	0.2000	1.0 0.35	U U	
3	1,2,4-Trichloroben		21.04 22.46	0.01	0.00	180	4741	0.2000	0.35	U i	
3	Hexachlorobutadie		22.61	0.01	0.00					4	·
	Naphthalene		22.81 22.86	0.01	0.00	225 128	2045 8688	0.0800 0.1300	0.28 0.29	U U	
	1,2,3-Trichloroben		23.18	0.01	0.00	128	7579	0.1300	0.29	U U	
	1,1,2-Trifluoroetha							0.2000	• • • • • • • • • • • • • • • • • • • •		.
	Bis(chloromethyl)					0	0 0		1.0 1.0	U	NR
	(•································					U.	U		1.0	U	NR

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F009.D

Data File: Acqu Date: Run Type: Lab ID:	J:\MS04\DATA\041 04/11/2008 13:17 MB KWG0803341-4			Quant Date:	04/11	/2008 14:14	Instrum Vial: Dilution Soln Co		MS04 9 1.0 PPB		
Target Compoi	unds					Final	Conc. Units:	ug/L			
Parameter N	Jame	RT	RT Dev		QuantM ass	Response	Solution Conc	Fin: Con		Q	Rpt?
1,1-Dichlore	opropane	·		· · · · · · · · · · · · · · · · · · ·	0	0 .		1.0)	U	NR
Cyclohexan	one				0	0		4.0)	U	NR
Prep Amount: Prep Final Vol:	10 ml 10 ml		Dilution: Unit Fac	and an an and a state of the second	1.0						

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL

Indetected at or above MDL
 Analyte detected above MDL, but below MRL
 Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

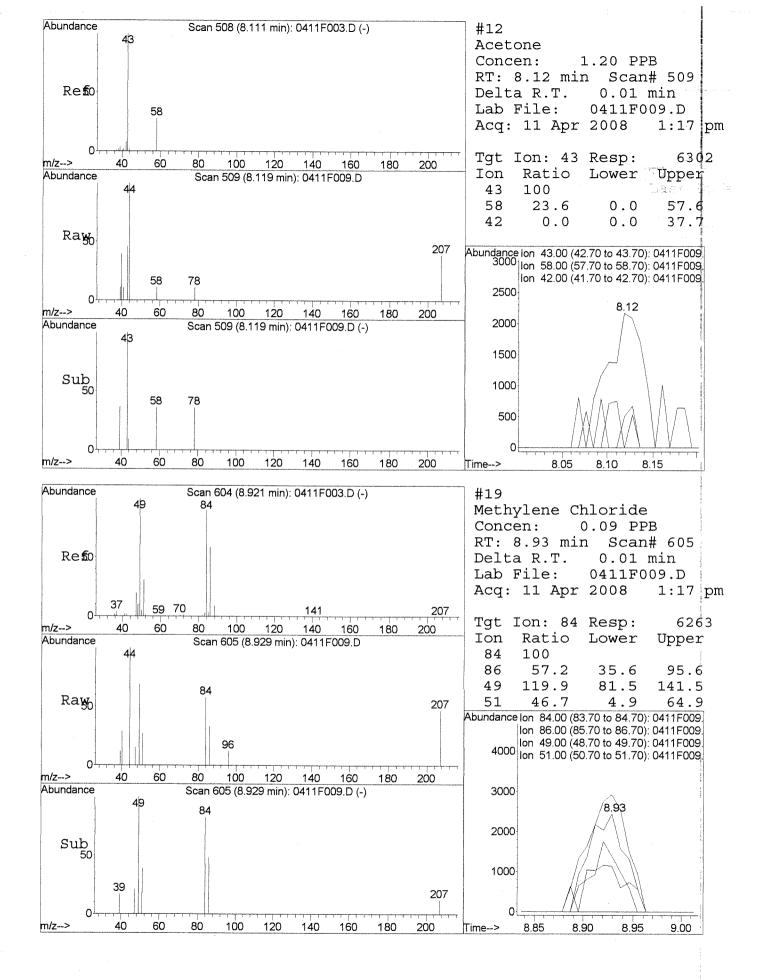
Printed: 04/11/2008 15:51:16 $u:\Stealth\Crystal.rpt\quant1.rpt$

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

Result fails acceptance criteria
 Acceptance criteria not applicable
 Insufficient information to determine acceptance
 Result >= MRL, but MRL less than low point of ICAL
 check for co-elution

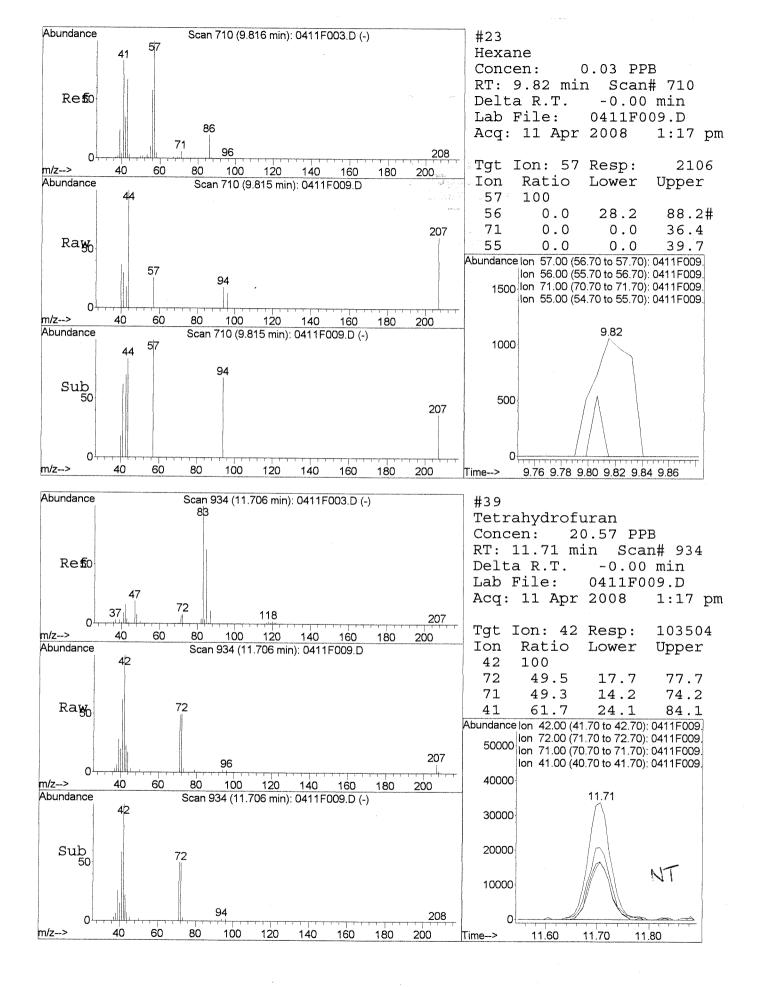
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Acq On Sample Misc	le : J: : 11 : MB : gration	Apr 2	2008	1:17	pm	F009.D			Inst	Vial cator c ciplr	HC MSC		
Quant 1	lime: Ap	r 11 3	14:14	2008			Quar	nt Res	sults	File	: 101	L007MS	04
Respons	: : date : se via :	VOA N Fri A	MSO4 E Apr 11	EPA Met L 10:36	chod 8 5:38 2 cion		8260. 24	.M (R1	CE Int	cegrat	cor)		
					TIC: 04	411F009.D							
1600000													
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600000						lene-d8,S	robenzene-d5,1	,S hlorobenzene-d4.1					
400000						Toluene-	Chlorobei	enzene,S 1,4-Dichloro					
200000					cene.		0	4-Bromofluorobenzene					10000
000000					Fluorobenzene, ⁽			Bromofil					
800000				i	Ē			4					
500000				Ś									
400000				Dibromofluoromethane,S oroethane-dd,S									
200000				an, T - Dibromofluoron 1,2-Dichloroethane-d4,S				anzene,1					
800000				Dibror				ine, T 4 Dichlorobe	H	⊢ ⊢			
600000		ide, T		uran,T 1,2-Dic				NL.	-Butylbenzene, T 1,3,5-Trichlorobenzene, T	H2v4-Trischlostobolizzene, T Naphthalene, MT 1,2,3-Trichlorobenzene, T			
400000		Acetone,T Methylene Chloride,T	۲	Tetrahydrofuran,T ene,MT 1.2-C	the second se			(Dethylb)	n-Butylbenzene, T 1,3,5-Trichlorobe	richloroc alene, M richloroc			
200000		Acetone, 7 Methylen	Hexane, T	Tetrahy Benzene,MT				12.4Th	n-Butyli 1,3,5-T	H2,4-T Hexacr Naphth 1,2,3-T			
0									·····				
e> 4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.0	0 22	2.00	24.00	26.00	



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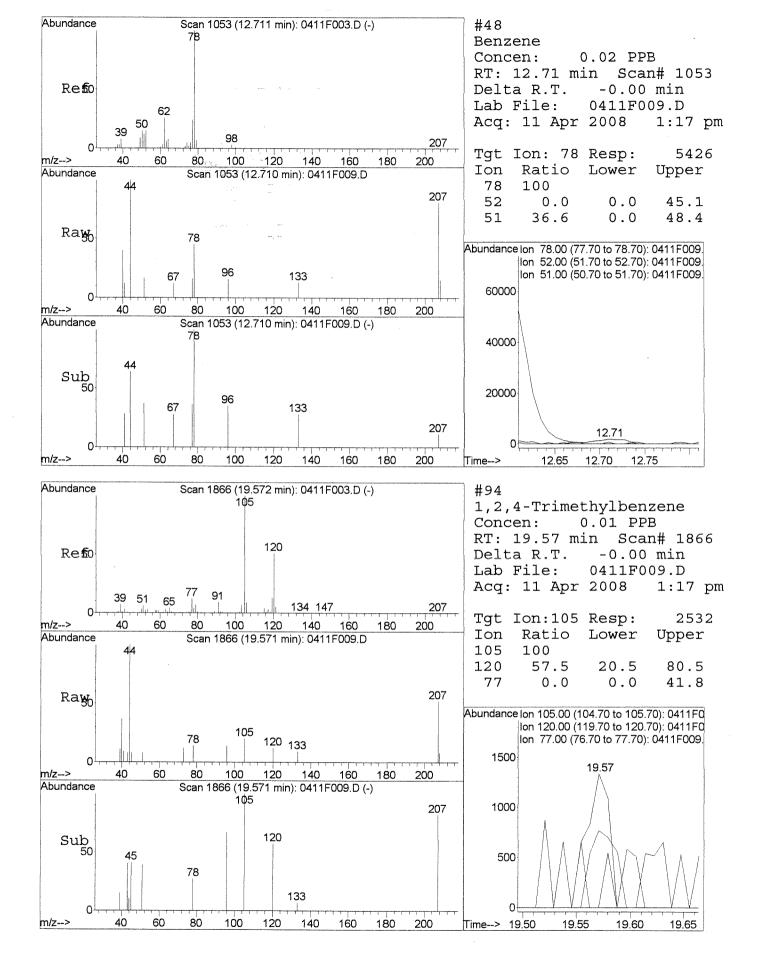
Page 3



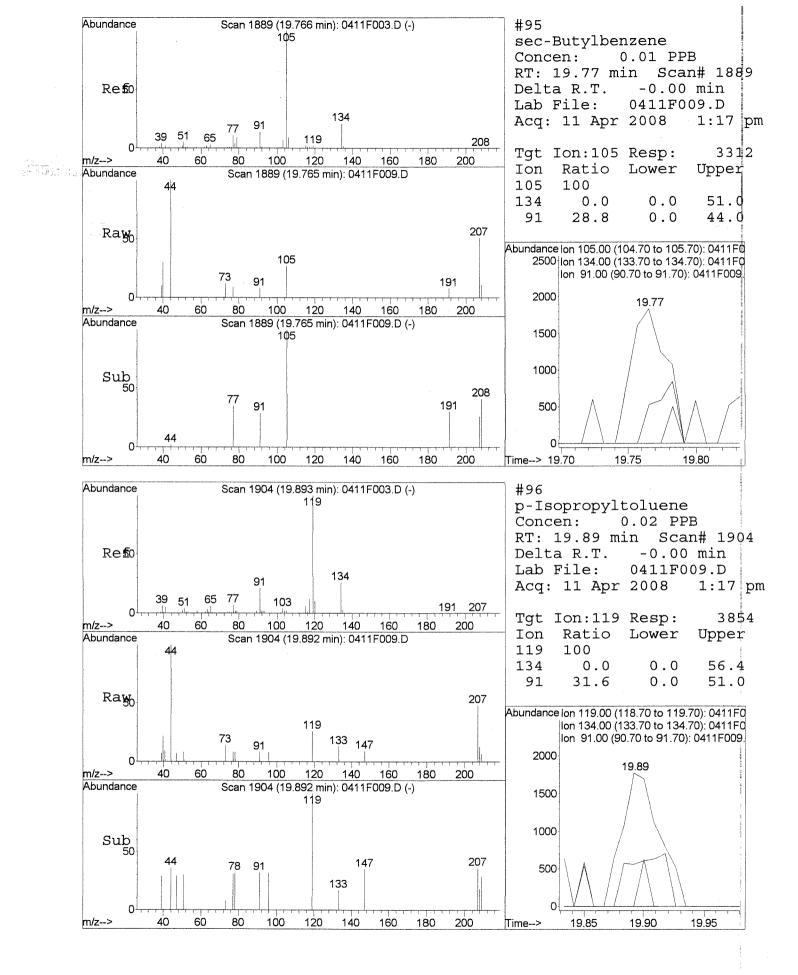
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Fri Apr 11 14:15:10 2008

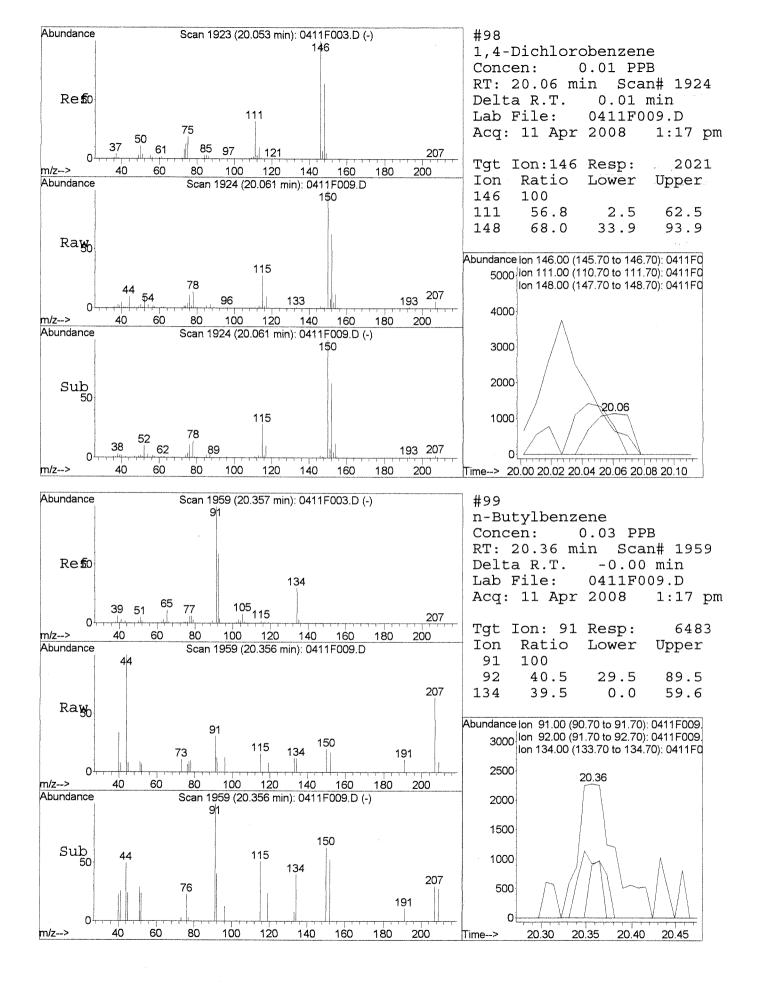
Page 4



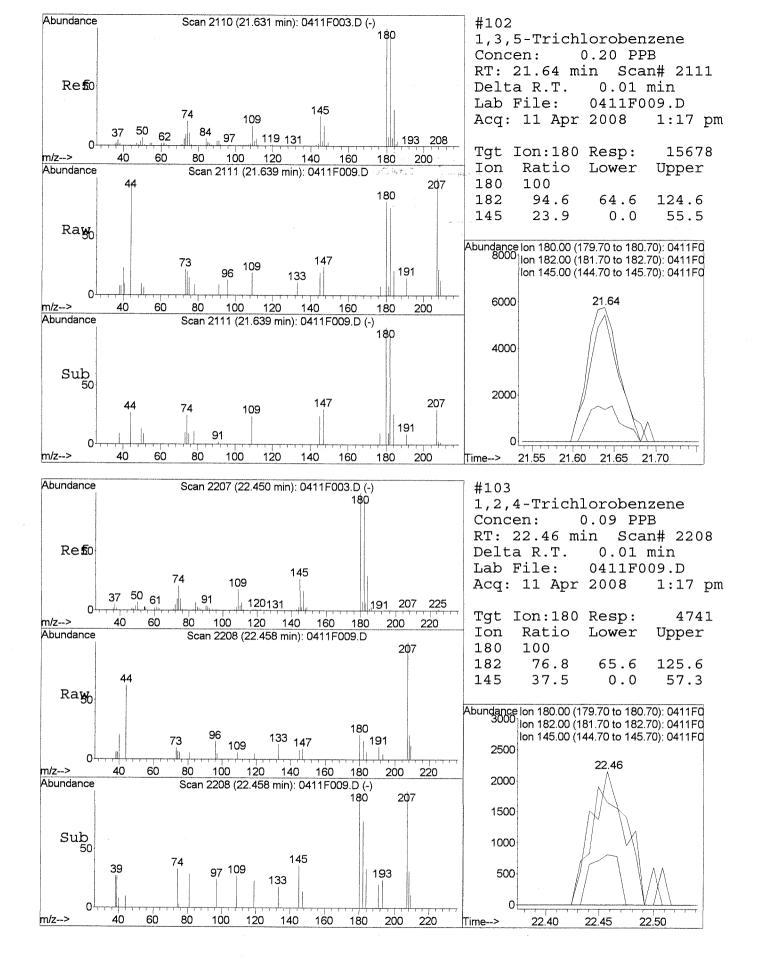
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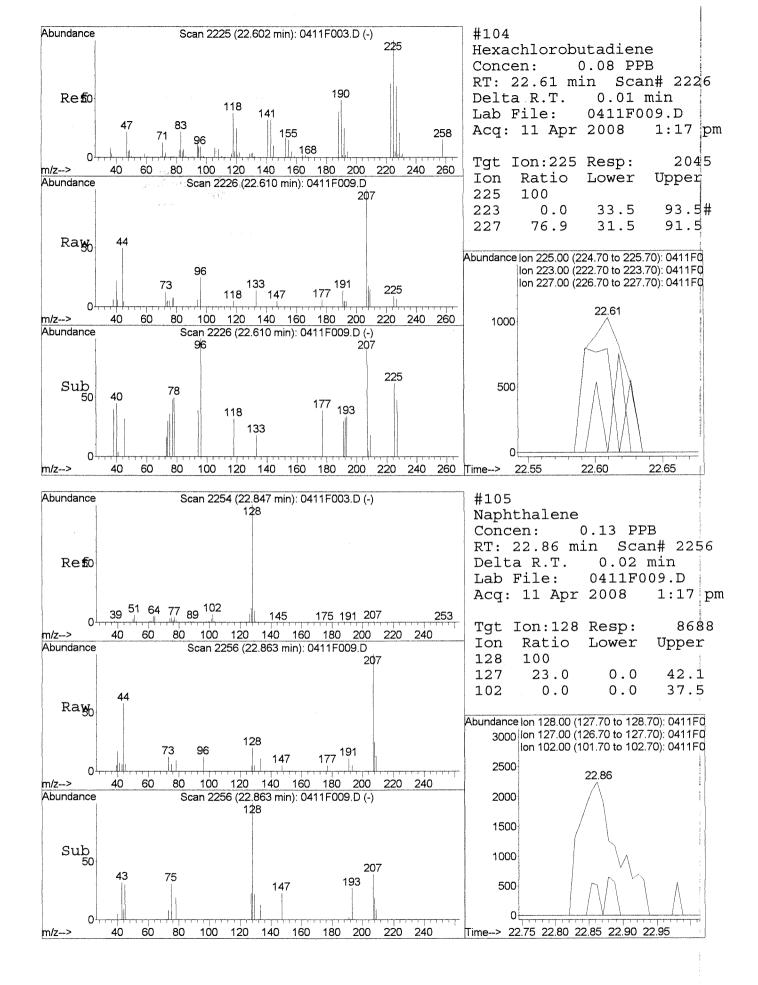
Page 6



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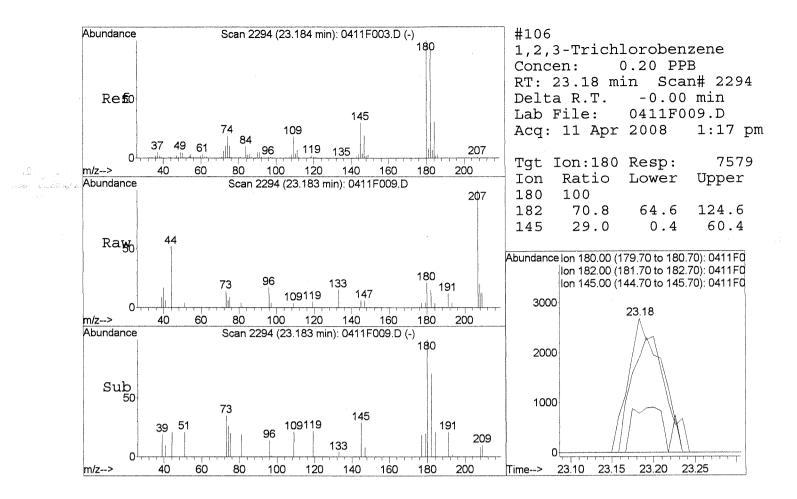
Fri Apr 11 14:15:12 2008



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101007MS04-8260.M

Fri Apr 11 14:15:12 2008



Fri Apr 11 14:15:13 2008

Page 10

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 Date Collected: 03/28/2008 Date Received: 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003MS	Units:	ug/L
Lab Code:	KWG0803341-1	Basis:	
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

Analyte Name	Result O	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	10.7	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane	9.22	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	10.9	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	10.5	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	9.67	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	13.1	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	53.9	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	16.6	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	21.0	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	9.55	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	11.1	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	10.9	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	50.5	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	13.9	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	11.0	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	11.7	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	10.7	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	13.3	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	12.2	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	13.6	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	12.7	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	10.7	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	11.9	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	10.0	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	12.2	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	10.8	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	51.4	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	11.6	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	11.5	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	10.5	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	10.2	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	51.2	20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	9.97	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Merged

Form 1A - Organic

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	KEP-GW-020A-003MS KWG0803341-1	Units: Basis:	0
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	11.5	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	10.5	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	10.2	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	10.3	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	10.6	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	10.7	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	21.9	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	11.2	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	11.1	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	12.2	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	10.5	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	8.82	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	9.34	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	10.2	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	10.3	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	10.0	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	9.75	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	9.93	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	10.3	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	10.1	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	10.9	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	9.97	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	10.0	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	9.56	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	10.2	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	9,90	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	10.3	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	10.7	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	11.1	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	10.6	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	10.4	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	46.1	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Merged

2 of 3

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003MS		Units: ug/L
Lab Code:	KWG0803341-1		Basis: NA
	Control	Data	

Surrogate Name	%Rec	Limits	Date Analyzed	Note	
Dibromofluoromethane	109	75-120	04/11/08	Acceptable	
Toluene-d8	120	80-128	04/11/08	Acceptable	
4-Bromofluorobenzene	110	75-117	04/11/08	Acceptable	

Comments:

Merged

Data File:	J:\MS04\DATA\041108\0411F005.D
Lab ID:	KWG0803341-1 K0802796-001MS
RunType:	MS
Matrix:	WATER

04/11/2008 11:09 04/11/2008 12:05 KWG0803340 8260B MJ119

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	<u></u>
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	<u>, , , , , , , , , , , , , , , , , , , </u>
Analyte Co-elution	NA	NA	NA	х	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	, ,,
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	· · · · · · · · · · · · · · · · · · ·
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0007	0.01	NA	NT
	tert-Butyl Alcohol	0.0067	0.01	NA	1
	Isobutyl Alcohol	0.0027	0.01	NA	L
	2-Butanone (MEK)	0.0099	0.01	NA	MRLCheck
Continuing Calibration Recovery	Tetrahydrofuran	203.5	NA	30	NT
	2-Nitropropane	34.3	NA	30	1
Continuing Calibration Minimum RF	1,4-Dioxane	0.0010	0.01	NA	
	tert-Butyl Alcohol	0.0062	0.01	NA	
	Isobutyl Alcohol	0.0029	0.01	NA	

HC 4.11-08 Primary Review: Secondary Review: 一日 Page 1 of 1

Quantitation Report

Pro	ttle ID: od Code:	8260B VOC_FP			Tier: Collect Date:	*** <u>**********************************</u>		Matrix Receive		WATER 04/11/2008		
An	alysis Method:	KWG0803340 8260B 700863			Prep Lot: Prep Method Prep Date:			Report	Group:			
	- 						······································					
Qu Tit		I:\MS04\METHOI	DS\101007	MS04-8				Calibra	tion ID:	CAL669	96	
		[:\MS04\DATA\04 [:\MS04\DATA\04						Method Quant	l ID: based on l	MJ119 Method		· · · · · · ·
Aco Ru	u Date: (n Type:]	:\MS04\DATA\04)4/11/2008 11:09 MS KWG0803341-1 -			Quant Date:	04/11,	/2008 12:05	Instrum Vial: Dilution Soln Co		MS04 5 1.0 PPB		
Inte	rnal Standara	Compounds										
IS Ref	Parameter Nam	e	RT	RT Dev		Quant Mass	Response	Solution Conc			Area Friteria	
2	Fluorobenzene Chlorobenzene- 1,4-Dichlorober		13.12 17.39	0.00		96 117	2035876 1563004	10.00 10.00			OK OK	
	rogate Compo		20.03	0.00		152	857805	10.00			OK	
(S Ref	Parameter Nam		RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	Dibromofluoror	nethane	11.99	0.00	0.00	113	579846	10.85	109	75-120	OK	
	1,2-Dichloroeth	ane-d4	12.59	0.00	0.00	65	431737	11.86	119	62-121	OK	
	Toluene-d8		15.45	0.00	0.00	98	1861566	12.04	120	80-128	OK	
	4-Bromofluorob	enzene	18.74	0.00	0.00	95	680060	10.95	110	75-117	OK	
Targ	get Compound	s					Final (Conc. Units:	ug/L			
IS	Parameter Nam	,	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fin: Con		Q	Rpt?
		ç.					•	Conc				•
Ref	Dichlorodifluor		4.77		0.00	85	644191	10.70	10.1	7		
Ref 1 1	Chloromethane		4.77 5.25		0.00 0.00	85 50	644191 722465	10.70 9.22	10. ⁻ 9.2			
Ref	Chloromethane Vinyl Chloride		4.77		0.00	85	644191	10.70		2		
Ref 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane		4.77 5.25 5.52 6.31		0.00 0.00 0.00 0.00	85 50	644191 722465 709254 483751	10.70 9.22	9.2 10. 10.	2 9 5		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane	omethane	4.77 5.25 5.52 6.31 6.52		0.00 0.00 0.00 0.00 0.00	85 50 62 94 64	644191 722465 709254 483751 471237	10.70 9.22 10.87 10.46 9.67	9.2 10. 10. 9.6	2 9 5 7		
Ref 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluorom	omethane nethane (CFC 21	4.77 5.25 5.52 6.31		0.00 0.00 0.00 0.00	85 50 62 94	644191 722465 709254 483751	10.70 9.22 10.87 10.46	9.2 10. 10.	2 9 5 7		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoron Trichlorofluoron	omethane nethane (CFC 21	4.77 5.25 5.52 6.31 6.52 6.90 7.04		0.00 0.00 0.00 0.00 0.00 0.00 0.00	85 50 62 94 64 67 101	644191 722465 709254 483751 471237	10.70 9.22 10.87 10.46 9.67	9.2 10. 10. 9.6	2 9 5 7 7		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoron Trichlorofluoron Ethyl Ether	omethane nethane (CFC 21 nethane	4.77 5.25 5.52 6.31 6.52 6.90 7.04 7.56		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	85 50 62 94 64 67 101 59	644191 722465 709254 483751 471237 1444154 954931 294477	10.70 9.22 10.87 10.46 9.67 12.69	9.2 10. 10. 9.6 12.	2 9 5 7 7		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoron Trichlorofluoron	omethane nethane (CFC 21 nethane	4.77 5.25 5.52 6.31 6.52 6.90 7.04		0.00 0.00 0.00 0.00 0.00 0.00 0.00	85 50 62 94 64 67 101	644191 722465 709254 483751 471237 1444154 954931	10.70 9.22 10.87 10.46 9.67 12.69 13.12	9.22 10.1 10.1 9.6 12.1 13.	2 9 5 7 7 1 9		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoron Trichlorofluoron Ethyl Ether Trichlorotrifluor 1,1-Dichloroetha	omethane nethane (CFC 21 nethane roethane	4.77 5.25 5.52 6.31 6.52 6.90 7.04 7.56 8.01 8.05	-0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	85 50 62 94 64 67 101 59	644191 722465 709254 483751 471237 1444154 954931 294477	10.70 9.22 10.87 10.46 9.67 12.69 13.12 9.79	9.2 10. 10. 9.6 12. 13. 9.7	2 9 5 7 7 1 9 1		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluorom Trichlorofluorom Ethyl Ether Trichlorotrifluor 1,1-Dichloroeth Acetone	omethane nethane (CFC 21 nethane roethane	4.77 5.25 5.52 6.31 6.52 6.90 7.04 7.56 8.01 8.05 8.11	-0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	85 50 62 94 64 67 101 59 151 96 43	644191 722465 709254 483751 471237 1444154 954931 294477 565139 829356 284490	10.70 9.22 10.87 10.46 9.67 12.69 13.12 9.79 12.05 16.63 53.89	9.2 10. 10. 9.6 12. 13. 9.7 12. 16.6 53.9	2 9 7 7 1 9 1 5 9		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoron Trichlorofluoron Ethyl Ether Trichlorotrifluor 1,1-Dichloroetha	omethane nethane (CFC 21 nethane roethane	4.77 5.25 5.52 6.31 6.52 6.90 7.04 7.56 8.01 8.05	-0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	85 50 62 94 64 67 101 59 151 96	644191 722465 709254 483751 471237 1444154 954931 294477 565139 829356	10.70 9.22 10.87 10.46 9.67 12.69 13.12 9.79 12.05 16.63	9.2 10. 10. 9.6 12. 13. 9.7 12. 16.0	2 9 7 7 1 9 1 5 9		
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluorom Trichlorofluorom Ethyl Ether Trichlorotrifluor 1,1-Dichloroeth Acetone	nethane nethane (CFC 21 nethane roethane ene	4.77 5.25 5.52 6.31 6.52 6.90 7.04 7.56 8.01 8.05 8.11	-0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	85 50 62 94 64 67 101 59 151 96 43	644191 722465 709254 483751 471237 1444154 954931 294477 565139 829356 284490	10.70 9.22 10.87 10.46 9.67 12.69 13.12 9.79 12.05 16.63 53.89	9.2 10. 10. 9.6 12. 13. 9.7 12. 16.6 53.9	2 9 5 7 7 1 9 1 5 9 3		

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 15:41:34 u:\Stealth\Crystal.rpt\quant1.rpt

J:\MS04\DATA\041108\0411F005.D

h: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

D: Result from dilution

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

Data File:	J:\MS04\DATA\041108\0411F005.D			Instrument:	MS04
Acqu Date:	04/11/2008 11:09	Quant Date:	04/11/2008 12:05	Vial:	5
Run Type:	MS			Dilution:	1.0
Lab ID:	KWG0803341-1 K0802796-001M	IS		Soln Conc. Units:	PPB

	get Compounds					Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	8.70	0.01	0.00	41	2843468	32.54	32.5		
1	Acetonitrile	8.64	-9 -	0.00	41	789997	260.78	261		
1	Methylene Chloride	8.92		0.00	- 84	679531	9.55	9.55		
1	tert-Butyl Alcohol	8.98		0.00	59	162988	119.98	120		
1	Methyl tert-Butyl Ether	9.34		0.00	73	887145	11.09	11.1	r namer og	
1	trans-1,2-Dichloroethene	9.40		0.00	96	712444	11.13	11.1		
1	n-Hexane	9.82		0.00	57	2573691	35.33	35.3	< longeti	
1	1,1-Dichloroethane	10.15		0.00	63	1110577	10.88	10.9	- Andrew 1	
1	Vinyl Acetate	10.14		0.00	86	206480	31.56	31.6	An Low File	
1	Acrylonitrile	9.34		0.00	53	351893	38.84	38.8	1000-16	
1	Diisopropyl Ether	10.14		0.00	45	3281826	20.50	20.5	*	
1	Chloroprene	10.31		0.00	88	1840249	41.88	41.9	74678-11-1	
1	tert-Butyl Ethyl Ether	10.80		0.00	59	2506292	22.45	22.5	and a second	
1	2,2-Dichloropropane	11.21	-0.01	0.00	77	963613	13.90	13.9		
1	Ethyl Acetate	11.19		0.00	70	63499	24.87	24.9	1	
1	cis-1,2-Dichloroethene	11.19		0.00	96	724018	11.02	11.0	1	
1	2-Butanone (MEK)	11.16		0.00	72	102145	50.52	50.5		
1	Propionitrile	11.31		0.00	54	85778	30.07	30.1	5	
1	Methacrylonitrile	11.57		0.00	67	299540	31.40	31.4	141-1 100-1 1	
1	Bromochloromethane	11.64		0.00	128	329634	10.65	10.7		
1	Chloroform	11.72	0.01	0.00	83	1109778	11.67	11.7	in relates as	
1	tert-Butyl Formate	11.79	-0.01	0.00	59	528168	25.89	25.9	í.	
1	Tetrahydrofuran	11.70	-0.01	0.00	42	107070	21.12	21.1		·····
1	1,1,1-Trichloroethane (TCA)	12.09	0.01	0.00	97	924379	13.26	13.3	in ve	
1	Isobutyl Alcohol	12.31		0.00	43	182441	330.93	331	11-10-16	
1	Carbon Tetrachloride	12.36	-0.01	0.00	117	811759	13.64	13.6	ere GLige ta	
1	1,1-Dichloropropene	12.34	-0.01	0.00	75	901956	12.22	12.2		
1	tert-Amyl Methyl Ether	12.77		0.00	55	481069	22.60	22.6	*	
1	Benzene	12.71		0.00	78	2365357	10.66	10.7		
1	1,2-Dichloroethane (EDC)	12.72		0.00	62	611526	12.73	12.7	÷	
1	Trichloroethene (TCE)	13.67	-0.01	0.00	95	660537	11.85	11.9		
1	Methyl Methacrylate	14.07		0.00	69	502012	33.77	33.8		
1	1,2-Dichloropropane	14.04		0.00	63	533042	10.01	10.0		
1	1,4-Dioxane	14.20	0.01	0.00	88	61733	407.17	407	······································	
1	Dibromomethane	14.24		0.00	93	291088	10.80	10.8	2 	
	Bromodichloromethane	14.42		0.00	83	738803	12.21	12.2	-	
	2-Chloroethyl Vinyl Ether			0.00	63	758805 0 d	12.21	0.34	U :	
1	2-Nitropropane	14.74		0.00	41	171179	38.71	38.7	-	
	cis-1,3-Dichloropropene	15.06		0.00	41 75	820475	11.58	38.7 11.6		
	4-Methyl-2-pentanone (MIBK)	15.22		0.00	100	139885	51.20	51.2		
	Toluene	15.56	0.01	0.00	92	1536129	11.52	11.5		
	Ethyl Methacrylate	15.83	0.01	0.00	92 69	1117589	33.59	33.6		

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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J:\MS04\DATA\041108\0411F005.D

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

Result fails acceptance criteria
 Acceptance criteria not applicable
 Insufficient information to determine acceptance
 Result >= MRL, but MRL less than low point of ICAL
 check for co-elution

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Data File:	J:\MS04\DATA\041108\041	11F005.D		
Acqu Date:	04/11/2008 11:09	Quant Date:	04/11/2008 12:05	
Run Type:	MS		0.11.0000 12.00	
Lab ID:	KWG0803341-1 - K0802	796-001MS		

Instrument: MS04 Vial: 5 Dilution: 1.0 Soln Conc. Units: PPB

	Target Compounds				Final Conc. Units: ug/L						
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?	
2	n-Octane	15.57		0.00	85	895314	23.70	23.7			
2	trans-1,3-Dichloropropene	15.81		0.00	75	584588	10.49	10.5			
2	1,1,2-Trichloroethane	16.09		0.00	83	299266	10.15	10.2			
2	Tetrachloroethene (PCE)	16.31		0.00	164	642718	11.54	11.5			
2	2-Hexanone	16.34		0.00	57	103437	51.38	51.4			
2	1,3-Dichloropropane	16.32		0.00	76	630861	9.97	9.97			
2	Dibromochloromethane	16.65		0.00	129	492733	10.53	10.5			
2	1,2-Dibromoethane (EDB)	16.84		0.00	107	378528	10.20	10.2			
2	1-Chlorohexane	17.29		0.00	55	569600	11.53	11.5			
2	Chlorobenzene	17.42		0.00	112	1703572	10.30	10.3			
2	Ethylbenzene	17.50		0.00	106	873204	10.72	10.7			
2	1,1,1,2-Tetrachloroethane	17.50		0.00	131	568657	10.62	10.6			
2	m,p-Xylenes	17.63		0.00	106	2264905	21.91	21.9			
2	o-Xylene	18.13		0.00	106	1068414	11.20	11.2			
2	Styrene	18.14		0.00	104	1716252	11.06	11.1			
2	Bromoform	18.42		0.00	173	285537	12.15	12.2			
2	Isopropylbenzene	18.53		0.00	105	2595174	10.47	10.5			
3	cis-1,4-Dichloro-2-butene	18.59		0.00	88	294867	39.69	39.7			
3	1,1,2,2-Tetrachloroethane	18.85		0.00	83	345468	8.82	8.82			
3	Bromobenzene	18.95		0.00	156	771641	10.19	10.2			
3	n-Propylbenzene	18.97		0.00	91	3394036	10.26	10.3			
3	trans-1,4-Dichloro-2-butene	18.91	0.01	0.00	53	265831	36.48	36.5			
3	1,2,3-Trichloropropane	18.93		0.00	110	100259	9.34	9.34			
3	2-Chlorotoluene	19.12		0.00	91	2148817	10.02	10.0			
3	1,3,5-Trimethylbenzene	19.14		0.00	105	2210236	9.93	9.93			
3	4-Chlorotoluene	19.23		0.00	91	1928034	9.75	9.75			
3	tert-Butylbenzene	19.53		0.00	134	562717	10.28	10.3			
3	1,2,4-Trimethylbenzene	19.57		0.00	105	2198389	10.14	10.1			
3	sec-Butylbenzene	19.77		0.00	105	3115340	10.93	10.9			
3	4-Isopropyltoluene	19.89		0.00	119	2493670	10.01	10.0			
3	1,3-Dichlorobenzene	19.96		0.00	146	1419170	9.97	9.97			
3	1,4-Dichlorobenzene	20.05		0.00	146	1403466	9.56	9.56			
	n-Butylbenzene	20.36		0.00	91	2173893	10.22	10.2			
3	1,2-Dichlorobenzene	20.50		0.00	146	1181134	9.90	9.90			
	1,2-Dibromo-3-chloropropane	21.40	-0.01	0.00	157	59780	10.32	10.3			
	1,3,5-Trichlorobenzene	21.63		0.00	180	3800275	46.12	46.1			
3	1,2,4-Trichlorobenzene	22.45		0.00	180	622657	10.73	10.7			
	Hexachlorobutadiene	22.60		0.00	225	288753	10.38	10.4			
	Naphthalene	22.85		0.00	128	721877	10.61	10.6			
3	1,2,3-Trichlorobenzene	23.18		0.00	180	429727	11.08	11.1			
	1,1,2-Trifluoroethane				0	0		1.0	UJ	NR	
	Bis(chloromethyl) Ether				0	0		1.0	UJ	NR	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank

E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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J:\MS04\DATA\041108\0411F005.D

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

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*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

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Data File: Acqu Date: Run Type: Lab ID:	J:\MS04\DATA 04/11/2008 11: MS KWG0803341-	09	Quant Da	ite: 04	/11/20	08 12:05	Instrum Vial: Dilution Soln Col		MS04 5 1.0 PPB		
Target Compo	ounds					Final	Conc. Units:	ug/L			l
Parameter	Name	RT	RT Dev	QuantN ass		Response	Solution Conc	Fin Cor		Q	Rpt?
1,1-Dichlo	ropropane			()	0		1.0)	UJ	NR
Cyclohexa	none		, ,	()	0		4.()	UJ.	NR
Prep Amount: Prep Final Vol:	10 ml		Dilution: Unit Factor:	1.0 1							

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

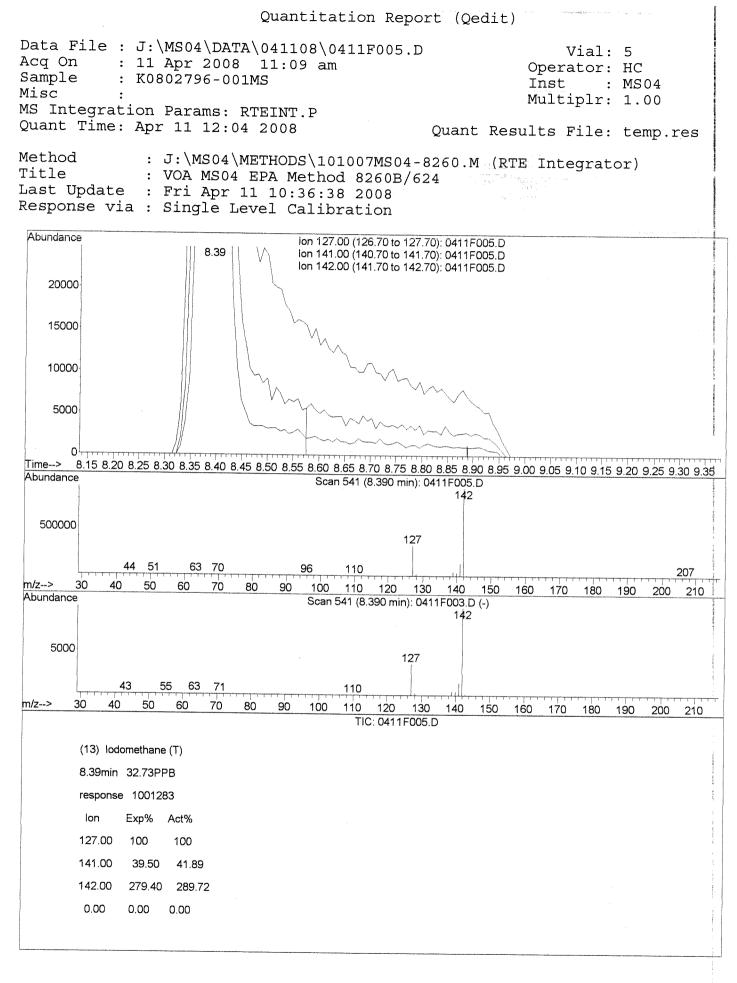
U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 15:41:34 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution d: Compound manually deleted NR: Analyte not reported from this analysis

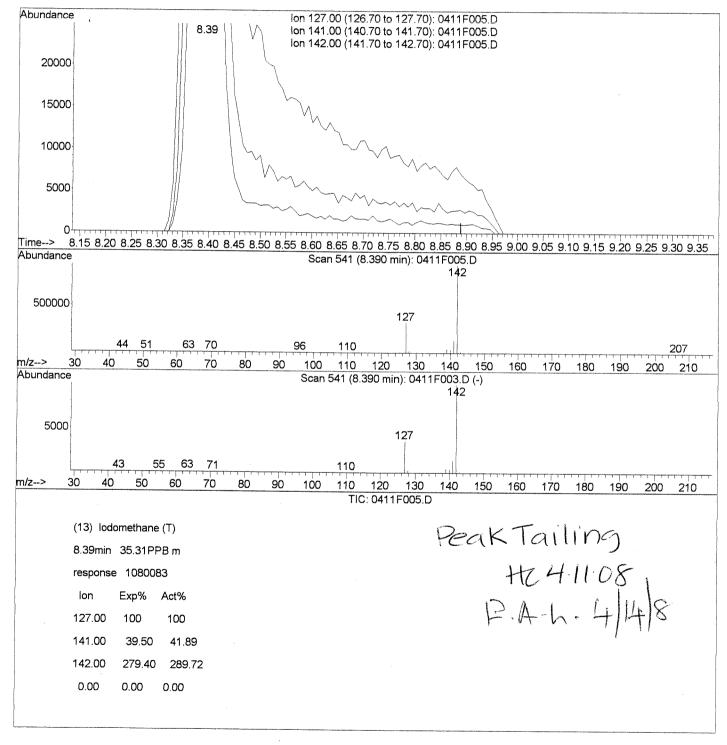
*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F005.D



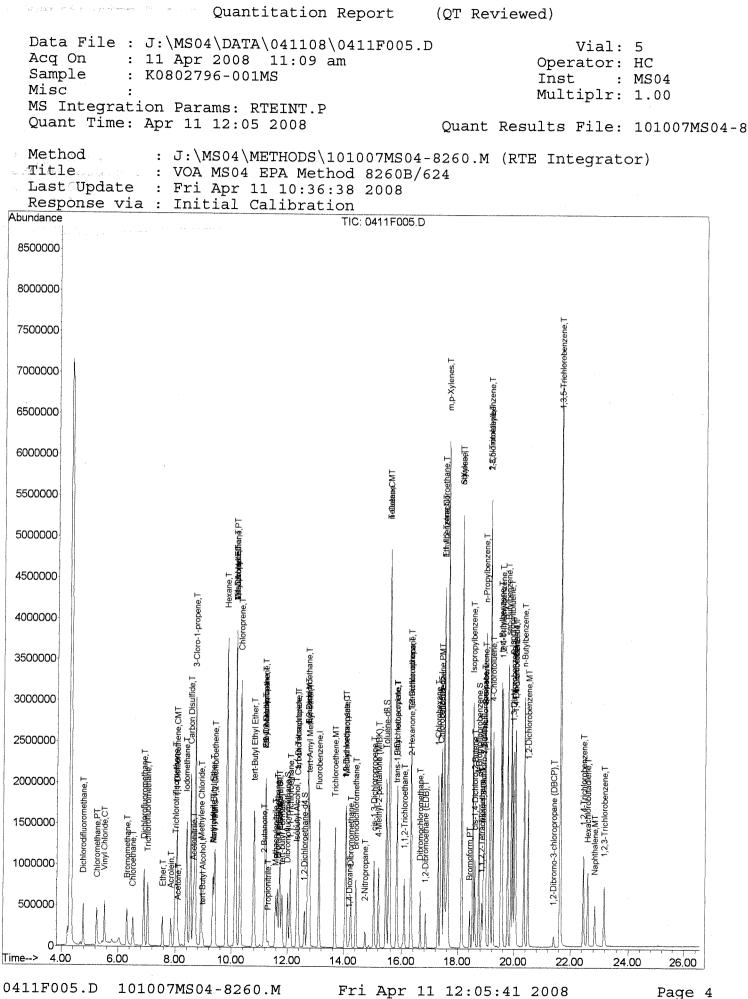
Fri Apr 11 12:04:43 2008

Quantitation Report (Qedit) Data File : J:\MS04\DATA\041108\0411F005.D Vial: 5 Acq On : 11 Apr 2008 11:09 am Operator: HC Sample : K0802796-001MS Inst : MS04 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 11 12:04 2008 Quant Results File: temp.res Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Fri Apr 11 10:36:38 2008 Response via : Single Level Calibration



0411F005.D 101007MS04-8260.M

Fri Apr 11 12:04:48 2008



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Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003DMS	Units: ug/L
Lab Code:	KWG0803341-2	Basis: NA
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level: Low

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	9.49	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	11010
Chloromethane	8.57	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	10.1	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	10.3	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	8.97	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	12.1	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	54.5	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	15.5	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	19.6	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	9.11	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	10.6	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	10.5	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	52.7	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	13.0	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	10.5	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	11.2	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	10.3	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	12.4	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	11.4	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	12.7	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	12.3	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	10.2	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	11.3	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	9.69	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	11.8	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	10.6	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	51.8	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	11.1	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	11.0	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	10.3	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	9.91	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	49.6	20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	9.69	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

Merged

Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

Service Request: K0802796 Date Collected: 03/28/2008 Date Received: 04/01/2008

Volatile Organic Compounds

Sample Name: Lab Code:	KEP-GW-020A-003DMS KWG0803341-2	Units: Basis:	•
Extraction Method: Analysis Method:	EPA 5030B 8260B	Level:	Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	11.0	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Dibromochloromethane	10.4	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromoethane (EDB)	10.1	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Chlorobenzene	9.98	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,1,1,2-Tetrachloroethane	10.9	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene	10.7	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
m,p-Xylenes	21.6	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
o-Xylene	10.9	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Styrene	10.9	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
Bromoform	11.9	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
Isopropylbenzene	10.1	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane	8.75	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane	9.45	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene	9.76	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene	9.87	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene	9.69	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene	9.46	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene	9.62	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene	9.89	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene	9.86	2.0	0.15	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene	10.5	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichlorobenzene	9.66	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
4-Isopropyltoluene	9.64	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene	9.30	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene	9.93	2.0	0.23	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene	9.63	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane	10.8	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trichlorobenzene	10.5	2.0	0.22	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichlorobenzene	11.1	2.0	0.33	1	04/11/08	04/11/08	KWG0803341	
Naphthalene	10.5	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
Hexachlorobutadiene	9.86	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene	44.8	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Form 1A - Organic

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Collected:
 03/28/2008

 Date Received:
 04/01/2008

Volatile Organic Compounds

Sample Name:	KEP-GW-020A-003DMS	Units:	0
Lab Code:	KWG0803341-2	Basis:	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	75-120	04/11/08	Acceptable
Toluene-d8	121	80-128	04/11/08	Acceptable
4-Bromofluorobenzene	111	75-117	04/11/08	Acceptable

Comments:

Merged

Data File:	J:\MS04\DATA\041108\0411F006.D				
Lab ID:	KWG0803341-2 K0802796-001DMS				
RunType:	DMS				
Matrix:	WATER				

04/11/2008 11:41 04/11/2008 13:13 KWG0803340 8260B MJ119

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	- <u></u>
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0007	0.01	NA	NIT
	tert-Butyl Alcohol	0.0067	0.01	NA	1
	Isobutyl Alcohol	0.0027	0.01	NA	1
	2-Butanone (MEK)	0.0099	0.01	NA	MRLCheck
Continuing Calibration Recovery	Tetrahydrofuran	203.5	NA	30	NT
	2-Nitropropane	34.3	NA	30	1
Continuing Calibration Minimum RF	1,4-Dioxane	0.0010	0.01	NA	
	tert-Butyl Alcohol	0.0062	0.01	NA	, ž
	Isobutyl Alcohol	0.0029	0.01	NA	4

Primary Review: Ht 4.11.08 Secondary Review: Page 1 of 1

Quantitation Report

Pro	tle ID: d Code: 8260B VOC_FP			Tier: Collect Date:			Matrix		WATER 04/11/20		
	alysis Lot: KWG0803340 alysis Method: 8260B			Prep Lot: Prep Method		0803341 5030B	Report	Group:			
Pre	p Ref: 700864			Prep Date:	04/11	/2008			· 5 *		
	ant Method: J:\MS04\METHO	DS\101007	'MS04-8				Calibra	tion ID:	CAL669	96	
Titl	e: 1e Ref: J:\MS04\DATA\04	41108\0411	15002 D				X.4		1.61110		
	Ref: J:\MS04\DATA\02						Method Quant	based on I	MJ119 Method	1	
	a File: J:\MS04\DATA\04		IF006.D				Instrun	nent:	MS04		
	u Date: 04/11/2008 11:41			Quant Date:	04/11/	2008 13:13	Vial:		6		
	1 Type: DMS 0 ID: KWG0803341-2	Kooog	04 00101	6			Dilutior		1.0		
		K08027	96-001DN	48			Soln Co	onc. Units:	PPB		
Inte.	rnal Standard Compounds	-	RT		0		<u> </u>				· · · · · · · · · · · · · · · · · · ·
Ref	Parameter Name	RT	Dev		Quant Mass	Response	Solution Conc			Area Friteria	
	Fluorobenzene	13.11	-0.01		96	2062716	10.00			OK	
	Chlorobenzene-d5	17.38	-0.01		117	1571201	10.00			OK	
	1,4-Dichlorobenzene-d4	20.03	0.00		152	866277	10.00			OK	
IS	ogate Compounds		RT	RRT	Quant		Solution		%Rec		
Ref	Parameter Name	RT	Dev	Dev	Mass	Response	Conc	%Rec	Limits		Rpt
	Dibromofluoromethane	12.00	0.01	0.00	113	580912	10.73	107	75-120	OK	
	1,2-Dichloroethane-d4	12.60	0.01	0.00	65	435035	11.79	118	62-121	OK	
2	Toluene-d8 4-Bromofluorobenzene	15.46	0.01	0.00	98	1888649	12.05	121	80-128	OK	
-		18.73	-0.01	0.00	95	694066	11.12	111	75-117	OK	
Tana							~ ** **	~			
	get Compounds			DDT	OuantM	Final C	Conc. Units:	ug/L			
IS	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Final C Response	Conc. Units: Solution Conc	ug/L Fina Con		Q	Rpt?
IS Ref	Parameter Name Dichlorodifluoromethane	4.77		Dev			Solution	Fina	c	Q	Rpt?
IS Ref	Parameter Name Dichlorodifluoromethane Chloromethane	4.77 5.25		Dev 0.00 0.00	ass 85 50	Response 578622 680288	Solution Conc 9.49 8.57	Fina Con 9.4 8.5	е Э 7	Q	Rpt?
IS Ref	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride	4.77		Dev	ass 85	Response 578622	Solution Conc 9.49	Fina Con 9.4	е Э 7	Q	Rpt?
IS Ref 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane	4.77 5.25 5.52 6.30		Dev 0.00 0.00 0.00 0.00	ass 85 50 62 94	Response 578622 680288 666413 482432	Solution Conc 9.49 8.57 10.08 10.29	Fina Con 9.4 8.5 10. 10.	с 9 7 1 3	Q	Rpt?
IS Ref 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane	4.77 5.25 5.52 6.30 6.52	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64	Response 578622 680288 666413 482432 442917	Solution Conc 9.49 8.57 10.08 10.29 8.97	Fina Com 9.4 8.5 10. 10 8.9	c 9 7 1 3 7	Q	Rpt?
IS Ref 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21	4.77 5.25 5.52 6.30	Dev	Dev 0.00 0.00 0.00 0.00	ass 85 50 62 94	Response 578622 680288 666413 482432	Solution Conc 9.49 8.57 10.08 10.29	Fina Con 9.4 8.5 10. 10.	c 9 7 1 3 7	Q	Rpt?
IS Ref 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane	4.77 5.25 5.52 6.30 6.52 6.90 7.04	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101	Response 578622 680288 666413 482432 442917 1370927 894977 894977 1370927	Solution Conc 9,49 8,57 10,08 10,29 8,97 11,89 12,14	Fina Com 9.4 8.5 10. 10. 8.9 11.9 12.	c 9 7 1 3 7 9	Q	Rpt?
IS Ref 1 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether	4.77 5.25 5.52 6.30 6.52 6.90 7.04 7.56	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101 59	Response 578622 680288 666413 482432 442917 1370927 894977 289483	Solution Conc 9,49 8,57 10.08 10.29 8,97 11,89 12,14 9,49	Fina Com 9.44 8.55 10. 10. 10. 8.99 11.9 12. 9.44	c 9 7 1 3 7 9 1 3 1 9 1 9 1 9	Q	Rpt?
IS Ref 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane	4.77 5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101	Response 578622 680288 666413 482432 442917 1370927 894977 894977 1370927	Solution Conc 9,49 8,57 10,08 10,29 8,97 11,89 12,14	Fina Com 9.4 8.5 10. 10. 8.9 11.9 12.	c 9 7 1 3 7 9 1 3 1 9 1 9 1 9	Q	Rpt:
IS Ref 1 1 1 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane 1,1-Dichloroethene	4.77 5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101 59 151 96	Response 578622 680288 666413 482432 442917 1370927 894977 289483 525273 784922	Solution Conc 9,49 8,57 10,08 10,29 8,97 11,89 12,14 9,49 11,05 15,54	Fina Com 9,4' 8,5' 10. 10.' 8,9' 11.' 12.' 9,4' 11.' 15.'	c 9 7 1 3 7 9 1 9 1 5	Q	Rpt:
IS Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane I,1-Dichloroethene Acetone	4.77 5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06 8.11	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101 59 151 96 43	Response 578622 680288 666413 482432 442917 1370927 894977 289483 525273 784922 291574	Solution Conc 9,49 8,57 10.08 10.29 8,97 11.89 12.14 9,49 11.05 15.54 54,51	Fina Com 9.4 8.5 10. 10. 8.9 11.9 12. 9.4 11. 15.: 54.2	c 9 7 1 3 7 9 1 9 1 5 5	Q	Rpt [*]
IS Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane 1,1-Dichloroethene Acetone Iodomethane	4.77 5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101 59 151 96	Response 578622 680288 666413 482432 442917 1370927 894977 289483 525273 784922	Solution Conc 9,49 8,57 10,08 10,29 8,97 11,89 12,14 9,49 11,05 15,54	Fina Com 9,4' 8,5' 10. 10.' 8,9' 11.' 12.' 9,4' 11.' 15.'	c 9 7 1 3 7 9 1 9 1 5 5	Q	Rpt:
IS Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Parameter Name Dichlorodifluoromethane Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane I,1-Dichloroethene Acetone	4.77 5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06 8.11	Dev	Dev 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ass 85 50 62 94 64 67 101 59 151 96 43	Response 578622 680288 666413 482432 442917 1370927 894977 289483 525273 784922 291574	Solution Conc 9,49 8,57 10.08 10.29 8,97 11.89 12.14 9,49 11.05 15.54 54,51	Fina Com 9.4 8.5 10. 10. 8.9 11.9 12. 9.4 11. 15.: 54.2	c 9 7 1 3 7 9 1 9 1 5 5 9	Q	Rpt:

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 15:46:37 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F006.D

Data File:				
Data rue:	J:\MS04\DATA\041108\0411F006	D.D		Instrum
Acqu Date:	04/11/2008 11:41	Quant Date:	04/11/2008 13:13	Vial:
Run Type:	DMS			Dilution
Lab ID:	KWG0803341-2 K0802796-00	1DMS		Soln Cor

nent: MS04 6 1.0 n: Soln Conc. Units: PPB

	get Compounds					Final C	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	8.70	0.01	0.00	41	2813192 m	31.77	31.8		
1	Acetonitrile	8.64		0.00	. 41	758473 m	247.11	247		
1	Methylene Chloride	8.92		0.00	84	656896	9.11	9.11		
1	tert-Butyl Alcohol	8.98		0.00	59	167236	121.51	122		
1	Methyl tert-Butyl Ether	9.34		0.00	73	882508	10.88	10.9	·····	,
1	trans-1,2-Dichloroethene	9.40		0.00	96	683926	10.55	10.6		
1	n-Hexane	9.82		0.00	57	2403911	32.57	32.6		
1	1,1-Dichloroethane	10.15		0.00	63	1080782	10.45	10.5		
1	Vinyl Acetate	10.13	-0.01	0.00	86	207221	31.26	31.3		
1	Acrylonitrile	9.34		0.00	53	353592	38.52	38.5		
1	Diisopropyl Ether	10.13	-0.01	0.00	45	3251937	20.05	20.1		
1	Chloroprene	10.30	-0.01	0.00	88	1748052	39.26	39.3		
1	tert-Butyl Ethyl Ether	10.79	-0.01	0.00	59	2512434	22.21	22.2		
1	2,2-Dichloropropane	11.21	-0.01	0.00	77	915033	13.03	13.0		
1	Ethyl Acetate	11.19		0.00	70	65125	25.17	25.2		
1	cis-1,2-Dichloroethene	11.20	0.01	0.00	96	698191	10.49	10.5		
1	2-Butanone (MEK)	11.16		0.00	72	107866	52.65	52.7		
1	Propionitrile	11.31		0.00	54	85981	29.75	29.8		
1	Methacrylonitrile	11.58	0.01	0.00	67	301461	31.19	31.2		
1	Bromochloromethane	11.64		0.00	128	323715	10.32	10.3		
1	Chloroform	11.71		0.00	83	1079909	11.21	11.2		
1	tert-Butyl Formate	11.80		0.00	59	418011	20.22	20.2		
1	Tetrahydrofuran	11.70	-0.01	0.00	42	111267	21.66	21.7		
1	1,1,1-Trichloroethane (TCA)	12.09		0.00	97	877436	12.43	12.4		
1	Isobutyl Alcohol	12.32	0.01	0.00	43	180263	322.72	323		
1	Carbon Tetrachloride	12.37		0.00	117	762797	12.65	12.7		
1	1,1-Dichloropropene	12.35		0.00	75	852449	11.40	11.4		
1	tert-Amyl Methyl Ether	12.77		0.00	55	479313	22.22	22.2		
1	Benzene	12.71	·	0.00	78	2292868	10.20	10.2		
1	1,2-Dichloroethane (EDC)	12.72		0.00	62	598107	12.29	12.3		
1	Trichloroethene (TCE)	13.68		0.00	95	635081	11.25	11.3		
1	Methyl Methacrylate	14.07		0.00	69	497705	33.04	33.0		
1	1,2-Dichloropropane	14.05	0.01	0.00	63	522844	9.69	9.69		
1	1,4-Dioxane	14.19		0.00	88	61793	402.26	402		
1	Dibromomethane	14.24		0.00	93	288684	10.57	10.6		
1	Bromodichloromethane	14.42		0.00	83	723820	11.81	11.8		
1	2-Chloroethyl Vinyl Ether				63	0 d		0.34	U	
1	2-Nitropropane	14.74		0.00	41	170662	38.09	38.1		
	cis-1,3-Dichloropropene	15.05	-0.01	0.00	75	796020	11.08	11.1		
	4-Methyl-2-pentanone (MIBK)	15.21	-0.01	0.00	100	137364	49.62	49.6		
1	Toluene	15.55		0.00	92	1487304	11.01	11.0		
	Ethyl Methacrylate	15.83		0.00	69	1110702	33.21	33.2		

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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u:\Stealth\Crystal.rpt\quant1.rpt

J:\MS04\DATA\041108\0411F006.D

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

Page 2 of 4

1						
	Data File:	J:\MS04\DATA\041108\0411F006.D				Instrument:
	Acqu Date:	04/11/2008 11:41	Quant Date:	04/11/2008	13:13	Vial:
	Run Type:	DMS				Dilution:
	Lab ID:	KWG0803341-2 K0802796-001DI	MS			Soln Conc. Units:

MS04 ent: 6 1.0

PPB

	get Compounds					Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt
2	n-Octane	15.57		0.00	85	826674	21.77	21.8		
2	trans-1,3-Dichloropropene	15.81		0.00	75	577080	10.31	10.3		
2	1,1,2-Trichloroethane	16.08	-0.01	0.00	83	293674	9.91	9.91		
2	Tetrachloroethene (PCE)	16.31		0.00	164	617238	11.03	11.0		
2	2-Hexanone	16.35	0.01	0.00	57	104787	51.78	51.8		
2	1,3-Dichloropropane	16.33	0.01	0.00	76	616528	9.69	9.69	Sale and the second sec	
2	Dibromochloromethane	16.65		0.00	129	487037	10.35	10.4	· Haite	
2	1,2-Dibromoethane (EDB)	16.84		0.00	107	378139	10.14	10.1		
2	l-Chlorohexane	17.29		0.00	55	541961	10.91	10.9		
2	Chlorobenzene	17.43	0.01	0.00	112	1659530	9.98	9.98	Annald I was	
2	Ethylbenzene	17.50		0.00	106	875386	10.69	10.7	i i	
2	1,1,1,2-Tetrachloroethane	17.49	-0.01	0.00	131	585936	10.89	10.9	- Aparticia de Maria	
2	m,p-Xylenes	17.64	0.01	0.00	106	2239583	21.55	21.6		
2	o-Xylene	18.13		0.00	106	1049655	10.94	10.9		
2	Styrene	18.13	-0.01	0.00	104	1705983	10.94	10.9	Sanda - rit Million	
2	Bromoform	18.42		0.00	173	281717	11.92	11.9	- cerent	
2	Isopropylbenzene	18.52	-0.01	0.00	105	2513370	10.09	10.1		
3	cis-1,4-Dichloro-2-butene	18.60	0.01	0.00	88	288977	38.52	38.5	eyelijo er.	
3	1,1,2,2-Tetrachloroethane	18.85		0.00	83	346079	8.75	8.75	ogo si anec si	
3	Bromobenzene	18.95		0.00	156	746184	9.76	9.76		
3	n-Propylbenzene	18.98	0.01	0.00	91	3296662	9.87	9.87		
3	trans-1,4-Dichloro-2-butene	18.90		0.00	53	269049	36.56	36.6	-	
3	1,2,3-Trichloropropane	18.94	0.01	0.00	110	102402	9.45	9.45	r nddu ar	
3	2-Chlorotoluene	19.13	0.01	0.00	91	2100488	9.69	9.69	the pression	
3	1,3,5-Trimethylbenzene	19.14		0.00	105	2163949	9.62	9.62	4-4 We	
3	4-Chlorotoluene	19.24	0.01	0.00	91	1889781	9.46	9.46	1 crait and 1 control of the second sec	
3	tert-Butylbenzene	19.53		0.00	134	546703	9.89	9.89		
3	1,2,4-Trimethylbenzene	19.57		0.00	105	2158742	9.86	9.86	1. 2	
3	sec-Butylbenzene	19.76	-0.01	0.00	105	3016968	10.48	10.5		
3	4-Isopropyltoluene	19.90	0.01	0.00	119	2425724	9.64	9.64		
3	1,3-Dichlorobenzene	19.96		0.00	146	1389007	9.66	9.66	-	
3	1,4-Dichlorobenzene	2 0.06	0.01	0.00	146	1378768	9.30	9.30		
3	n-Butylbenzene	20.35	-0.01	0.00	91	2131498	9.93	9.93		
3	1,2-Dichlorobenzene	20.50		0.00	146	1160044	9.63	9.63	e og ser andøre	
3	1,2-Dibromo-3-chloropropane	21.41		0.00	157	62866	10.75	10.8		
3	1,3,5-Trichlorobenzene	21.63		0.00	180	3726083	44.77	44.8	Animir	
3	1,2,4-Trichlorobenzene	22.45		0.00	180	615213	10.50	10.5	:	
3	Hexachlorobutadiene	22.60		0.00	225	276789	9.86	9.86		
3	Naphthalene	22.84	-0.01	0.00	128	722590	10.51	10.5	1	
3	1,2,3-Trichlorobenzene	23.18		0.00	180	436637	11.14	11.1	1	
	1,1,2-Trifluoroethane				0	0		1.0	UJ	NR
	Bis(chloromethyl) Ether				0	0		1.0	UJ	NR

U: Undetected at or above MDL

B: Analyte detected alove MDL, but below MRL
 B: Hit above MRL also found in Method Blank
 E: Analyte concentration above high point of ICAL
 N: Presumptive evidence of compound

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D: Result from dilution m: Manual integration performed d: Compound manually deleted

NR: Analyte not reported from this analysis

*: Result fails acceptance criteria

Result taus acceptance criteria
 Acceptance criteria not applicable
 Insufficient information to determine acceptance

e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F006.D

Data File: Acqu Date: Run Type: Lab ID:	Acqu Date: 04/11/2008 11:41 Quant Date: Run Type: DMS		:	04/11/2008	3 13:13	Instrum Vial: Dilution Soln Col		MS04 6 1.0 PPB		
Target Co	mpounds					Final	Conc. Units:	ug/L		
Param	eter Name	RT	RT Dev	Qua ass		esponse	Solution Conc	Fina Con		Rpt?
1,1-D	chloropropane	· · · · · · · · · · · · · · · · · · ·			0	0		1.0	UJ	NR
Cyclo	nexanone				0	0		4.0	UJ	NR
Prep Amou	nt: 10 ml		Dilution:	1.0						
Prep Final	Vol: 10 ml		Unit Factor:	1						

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 15:46:37 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

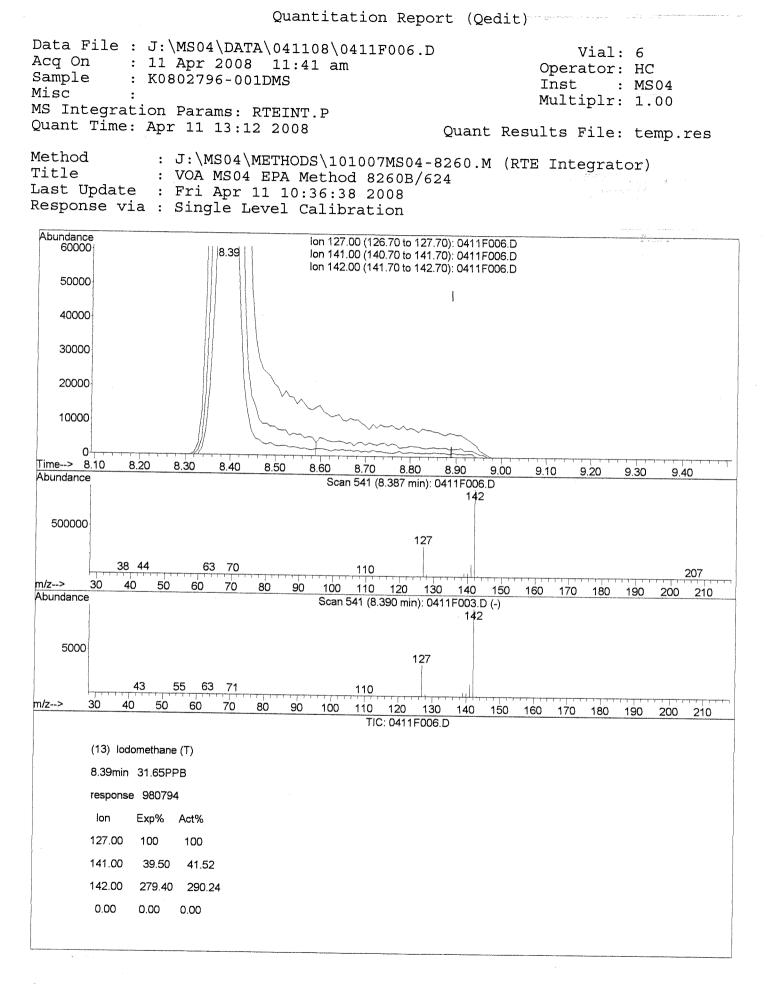
J:\MS04\DATA\041108\0411F006.D

*: Result fails acceptance criteria

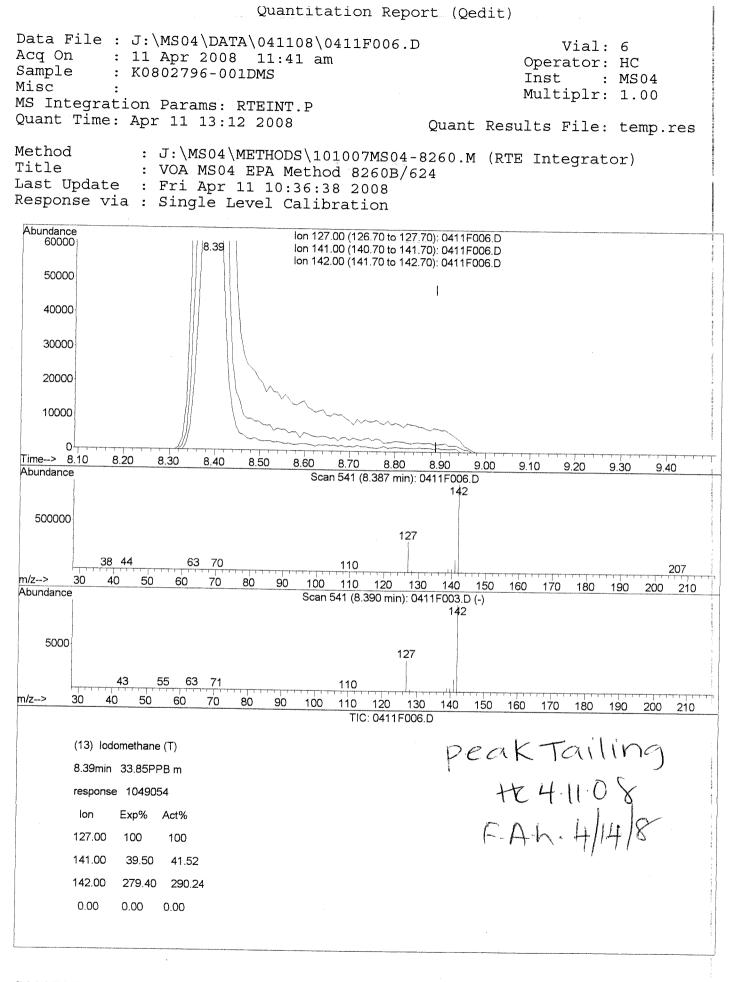
Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL

c: check for co-elution

Page 4 of 4

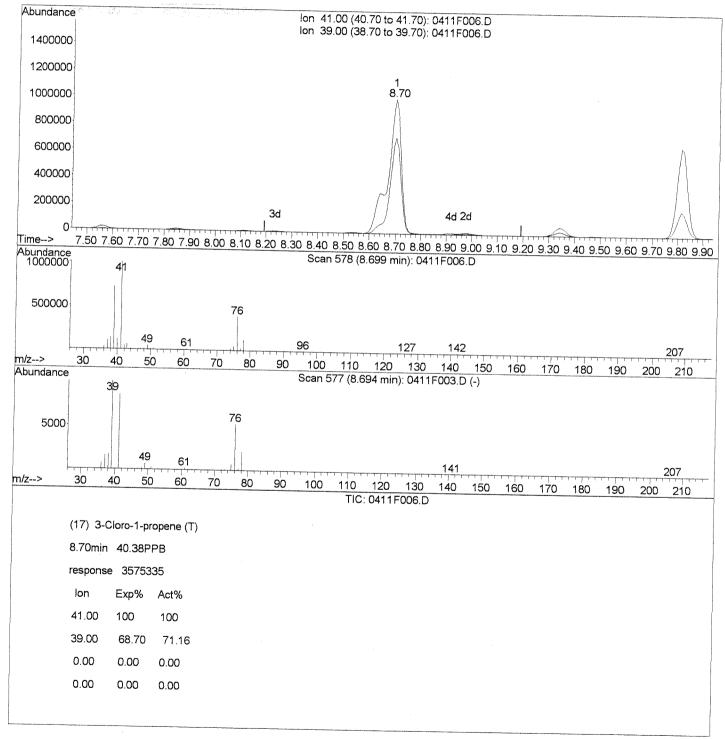


Fri Apr 11 13:12:49 2008



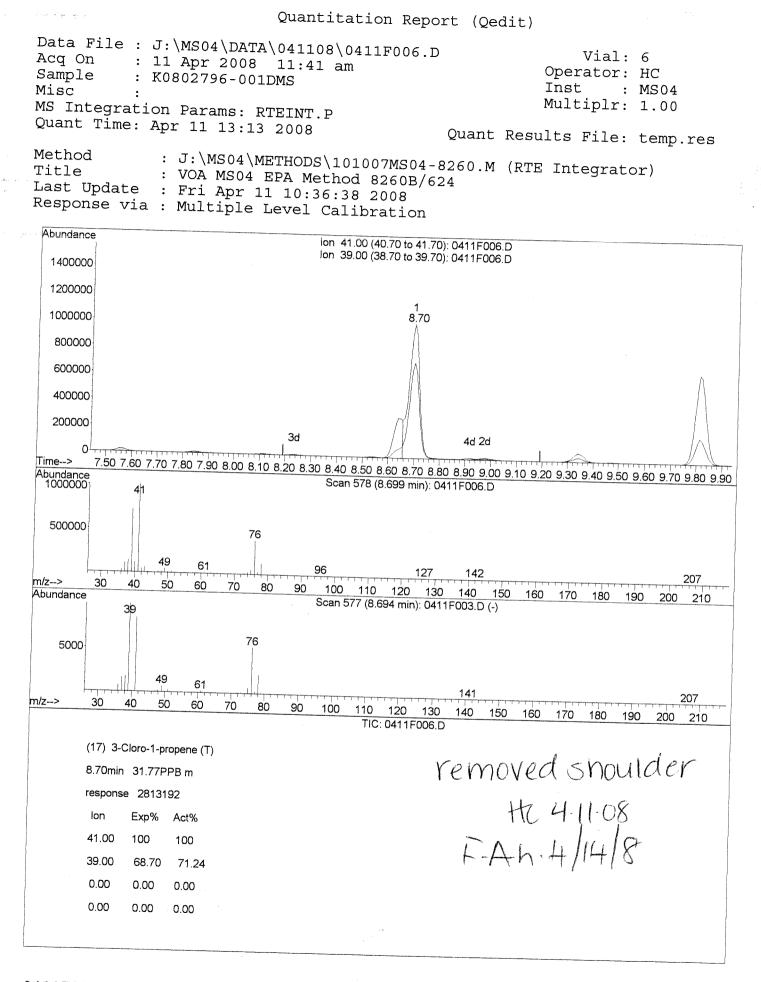
Fri Apr 11 13:12:54 2008

Quantitation Report (Qedit) Data File : J:\MS04\DATA\041108\0411F006.D Vial: 6 Acq On : 11 Apr 2008 11:41 am Operator: HC Sample : K0802796-001DMS Inst : MS04 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 11 13:12 2008 Quant Results File: temp.res Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) VOA MS04 EPA Method 8260B/624 Title Last Update : Fri Apr 11 10:36:38 2008 Response via : Multiple Level Calibration

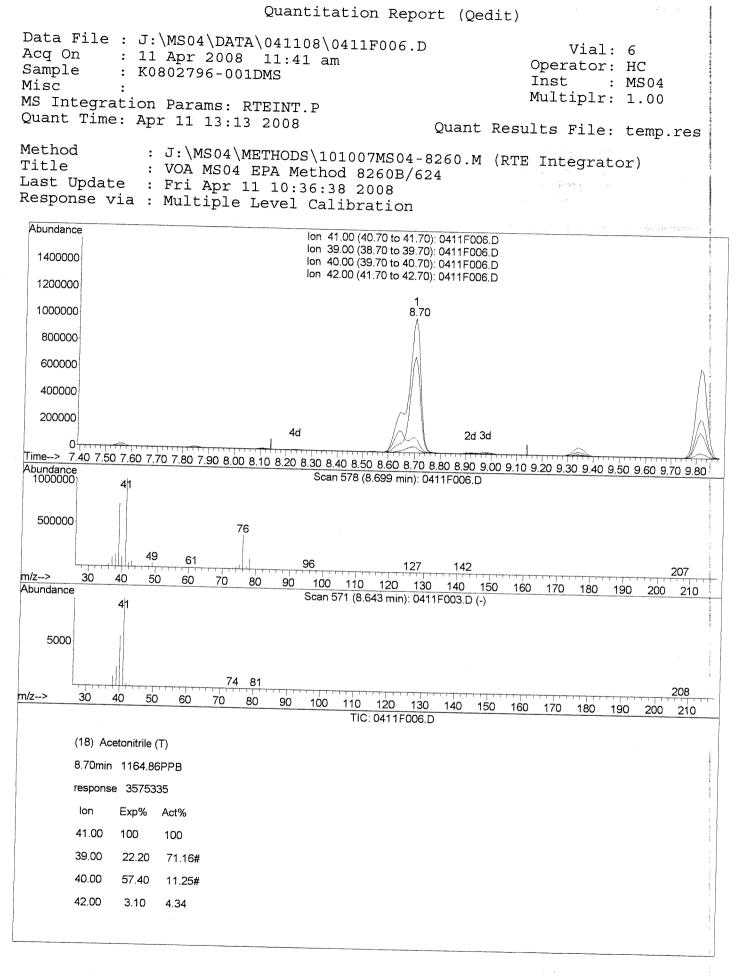


0411F006.D 101007MS04-8260.M

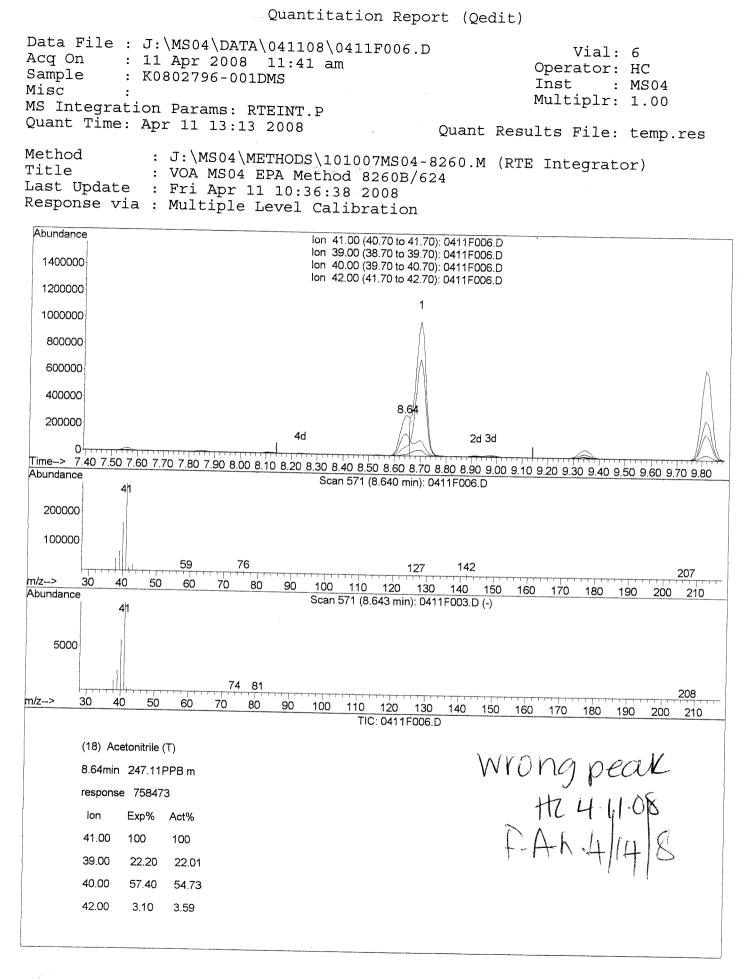
Fri Apr 11 13:12:59 2008



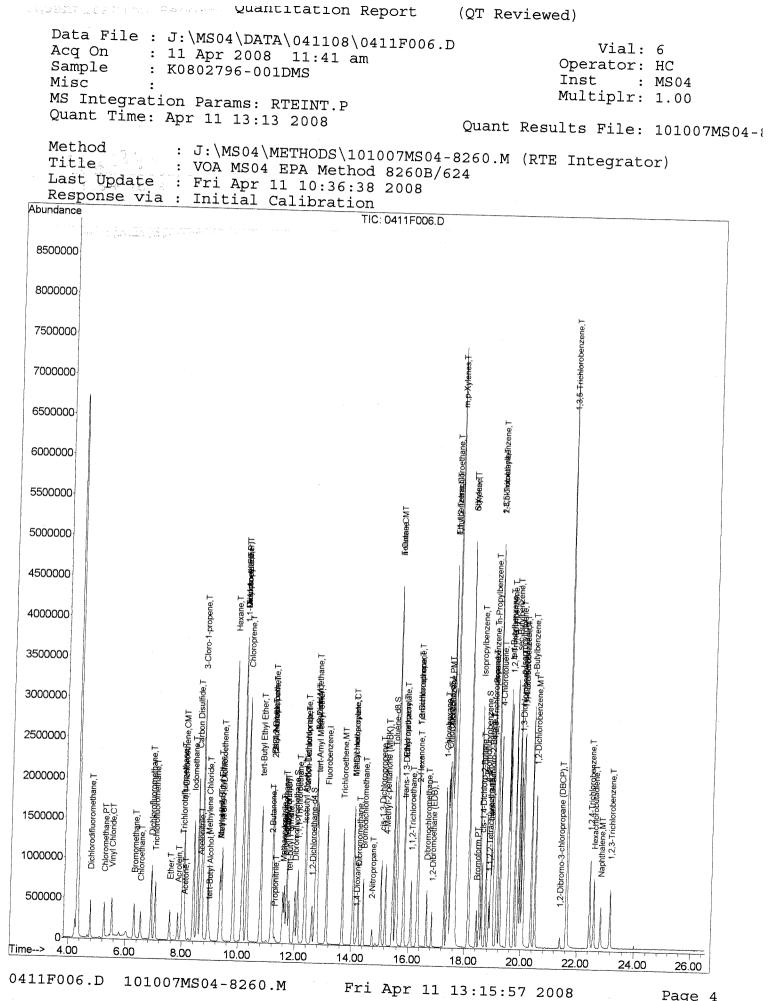
Fri Apr 11 13:13:07 2008



Fri Apr 11 13:13:11 2008



Fri Apr 11 13:13:15 2008



Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Volatile Organic Compounds

Sample Name: Lab Code:	Lab Control Sample KWG0803341-3				Units: Basis:	and the state
Extraction Method: Analysis Method:	EPA 5030B 8260B				Level:	Low
		Dilution	Date	Date	Extr	action

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	9.71	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
Chloromethane	8.51	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Vinyl Chloride	9.94	0.50	0.042	1	04/11/08	04/11/08	KWG0803341	
Bromomethane	9.65	0.50	0.22	1	04/11/08	04/11/08	KWG0803341	
Chloroethane	8.90	0.50	0.23	1	04/11/08	04/11/08	KWG0803341	
Trichlorofluoromethane	12.4	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Acetone	52.6	20	4.1	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethene	12.0	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Carbon Disulfide	19.4	0.50	0.16	1	04/11/08	04/11/08	KWG0803341	
Methylene Chloride	9.37	2.0	0.20	1	04/11/08	04/11/08	KWG0803341	
trans-1,2-Dichloroethene	10.6	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
1,1-Dichloroethane	10.5	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
2-Butanone (MEK)	52.8	20	2.3	1	04/11/08	04/11/08	KWG0803341	*
2,2-Dichloropropane	13.2	0.50	0.18	1	04/11/08	04/11/08	KWG0803341	
cis-1,2-Dichloroethene	10.6	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Chloroform	11.2	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromochloromethane	10.3	0.50	0.17	1	04/11/08	04/11/08	KWG0803341	
1,1,1-Trichloroethane (TCA)	12.7	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	*
1,1-Dichloropropene	11.6	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	
Carbon Tetrachloride	12.9	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloroethane (EDC)	12.5	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
Benzene	10.2	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Trichloroethene (TCE)	11.3	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichloropropane	9.62	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
Bromodichloromethane	12.2	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Dibromomethane	10.7	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
2-Hexanone	52.8	20	4.0	1	04/11/08	04/11/08	KWG0803341	
cis-1,3-Dichloropropene	11.4	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
Toluene	10.8	0.50	0.11	- 1	04/11/08	04/11/08	KWG0803341	
trans-1,3-Dichloropropene	10.5	0.50	0.090	1	04/11/08	04/11/08	KWG0803341	
1,1,2-Trichloroethane	10.1	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
4-Methyl-2-pentanone (MIBK)	52.3	20	2.7	1	04/11/08	04/11/08	KWG0803341	
1,3-Dichloropropane	9.93	0.50	0.15	1	04/11/08	04/11/08	KWG0803341	

Comments:

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Merged

Form 1A - Organic

Page SuperSet Reference: RR86013

Service Request: K0802796

Date Collected: NA

Date Received: NA

Analytical Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:	Lab Control Sample KWG0803341-3		Units: Basis:	•
Extraction Method: Analysis Method:	EPA 5030B 8260B		Level:	Low

Tetrachloroethene (PCE) 11.3 0.50 0.13 1 04/11/08 KWG0803341 Dibromochloromethane 10.7 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 J.2-Dibromochloromethane 10.2 0.50 0.14 1 04/11/08 04/11/08 KWG0803341 Lihorbenzene 10.5 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 Ethylbenzene 10.5 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 m.p-Xylenes 21.2 0.50 0.21 104/11/08 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.22 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 KWG0803341 Isopropylbenzene 9.43 0.50 0.24 1 04/11/08					Dilution	Date	Date	Extraction	
Dibromochloromethane 10.7 0.50 0.11 1 04/11/08 KWG0803341 1.2-Dibromoethane (EDB) 10.4 2.0 0.099 1 04/11/08 KWG0803341 Chlorobenzene 10.2 0.50 0.14 1 04/11/08 KWG0803341 Li,1,2-Tetrachloroethane 10.5 0.50 0.12 1 04/11/08 KWG0803341 Ethylbenzene 10.5 0.50 0.22 1 04/11/08 KWG0803341 o-Xylene 10.9 0.50 0.21 04/11/08 KWG0803341 Styrene 10.7 0.50 0.22 1 04/11/08 KWG0803341 Isopropylbenzene 10.7 0.50 0.28 1 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 KWG0803341 1,2,2-Trichloropropane 9.43 0.50 0.24 1 04/11/08 KWG0803341 1,2,2-Trichloropropane 9.95 2.0 0.18 04/11/08	Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
1,2-Dibromoethane (EDB) 10.4 2.0 0.099 1 04/11/08 KWG0803341 Chlorobenzene 10.2 0.50 0.14 1 04/11/08 KWG0803341 1,1,1,2-Tetrachloroethane 10.5 0.50 0.12 1 04/11/08 KWG0803341 mp-Xylenes 21.2 0.50 0.22 1 04/11/08 KWG0803341 o-Xylene 10.9 0.50 0.11 1 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.22 1 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.21 0.4/11/08 KWG0803341 Bromoform 12.3 0.50 0.28 1 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 0.4/11/08 KWG0803341 Isopropylbenzene 9.43 0.50 0.24 1 04/11/08 KWG0803341 I.2,3-Trichloropropane 9.54 2.0 0.12 0.4/11/08 KWG0803341	Tetrachloroethene (PCE)	11.3	0.50	0.13	1	04/11/08	04/11/08		
Chlorobenzene 10.2 0.50 0.14 1 04/11/08 KWG0803341 11,1,2-Tetrachloroethane 10.5 0.50 0.12 1 04/11/08 KWG0803341 Ethylbenzene 10.5 0.50 0.12 1 04/11/08 KWG0803341 mp-Xylenes 21.2 0.50 0.22 1 04/11/08 KWG0803341 o-Xylene 10.7 0.50 0.22 1 04/11/08 04/11/08 KWG0803341 stopropylbenzene 10.7 0.50 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 KWG0803341 1,1,2,2-Tetrachloroethane 8.84 0.50 0.14 1 04/11/08 KWG0803341 n-Propylbenzene 9.94 2.0 0.18 1 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 KWG0803341 1,2,2-Tetrachloroethane 9.94		10.7			1	04/11/08	04/11/08		
1,1,2-Tetrachloroethane 10.5 0.50 0.12 1 04/11/08 64/11/08 KWG0803341 Ethylbenzene 10.5 0.50 0.13 1 04/11/08 04/11/08 KWG0803341 mp-Xylenes 21.2 0.50 0.22 1 04/11/08 04/11/08 KWG0803341 o-Xylene 10.9 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 Styrene 10.7 0.50 0.095 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 KWG0803341 2,2-Chlorotoluene 9.99 2.0 0.18 1 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.79 2.0 0.12 1 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 9.98 2.0	1,2-Dibromoethane (EDB)	10.4	2.0	0.099	1	04/11/08	04/11/08	KWG0803341	
Ethylbenzene 10.5 0.50 0.13 1 04/11/08 V4/11/08 KWG0803341 m.p-Xylenes 21.2 0.50 0.22 1 04/11/08 04/11/08 KWG0803341 o-Xylene 10.9 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 Styrene 10.7 0.50 0.095 1 04/11/08 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 04/11/08 KWG0803341 I,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 n-Propylbenzene 9.95 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3-5-Trimethylbenzene 9.71 2.0 0.13	Chlorobenzene	10.2	0.50	0.14	1	04/11/08	04/11/08		
np-Xylenes 21.2 0.50 0.22 1 04/11/08 6/4/11/08 KWG0803341 o-Xylene 10.9 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 Styrene 10.7 0.50 0.095 1 04/11/08 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 04/11/08 KWG0803341 1,2,2-Tetrachlorocthane 8.84 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.95 2.0 0.12 1 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 KWG0803341 1,3-5-Trimethylbenzene 9.98 2.0 0.13 1 04/11/08<	1,1,1,2-Tetrachloroethane	10.5	0.50	0.12	1	04/11/08	04/11/08		
o-Xylene 10.9 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 Styrene 10.7 0.50 0.095 1 04/11/08 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 04/11/08 04/11/08 KWG0803341 1,2,2-Tetrachloroethane 8.84 0.50 0.14 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.94 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3-5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2-4-Trimethylbenzene 9.92 0.0	Ethylbenzene	10.5	0.50	0.13	1	04/11/08	04/11/08	KWG0803341	
Styrene 10.7 0.50 0.095 1 04/11/08 KWG0803341 Bromoform 12.3 0.50 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 04/11/08 KWG0803341 1,1,2,2-Tetrachloroethane 8.84 0.50 0.14 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 Bromolenzene 9.94 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 Propylbenzene 9.95 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 KWG0803341 1,4,4-Trimethylbenzene 9.98 2.0 0.13 1	m,p-Xylenes				1	04/11/08	04/11/08		
Bromoform 12.3 0.50 0.28 1 04/11/08 04/11/08 KWG0803341 Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 04/11/08 KWG0803341 1,1,2,2-Tetrachloroethane 8.84 0.50 0.14 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 Bromobenzene 9.94 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 KWG0803341 4-Chlorotoluene 9.58 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.81 2.0 <th< th=""><th>o-Xylene</th><th>10.9</th><th>0.50</th><th>0.11</th><th>1</th><th>04/11/08</th><th>04/11/08</th><th></th><th></th></th<>	o-Xylene	10.9	0.50	0.11	1	04/11/08	04/11/08		
Isopropylbenzene 10.1 2.0 0.11 1 04/11/08 KWG0803341 1,1,2,2-Tetrachloroethane 8.84 0.50 0.14 1 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 6WG0803341 Bromobenzene 9.94 2.0 0.18 1 04/11/08 6WG0803341 n-Propylbenzene 9.95 2.0 0.098 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 6WG0803341 4-Chlorotoluene 9.58 2.0 0.12 1 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 9.98 2.0 0.15 1 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 KWG0803341 1,4-Sopropyltoluene 9.81 2.0 <td< th=""><th>Styrene</th><th>10.7</th><th>0.50</th><th>0.095</th><th>1</th><th>04/11/08</th><th>04/11/08</th><th>KWG0803341</th><th></th></td<>	Styrene	10.7	0.50	0.095	1	04/11/08	04/11/08	KWG0803341	
1,1,2,2-Tetrachloroethane 8.84 0.50 0.14 1 04/11/08 KWG0803341 1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 04/11/08 KWG0803341 Bromobenzene 9.94 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 n-Propylbenzene 9.95 2.0 0.098 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.95 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 4-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,3,4-Trimethylbenzene 9.97 2.0 0.13 1 04/11/08 KWG0803341 1,3-Dichlorobenzen	Bromoform	12.3	0.50	0.28	1	04/11/08	04/11/08	KWG0803341	
1,2,3-Trichloropropane 9.43 0.50 0.24 1 04/11/08 KWG0803341 Bromobenzene 9.94 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 n-Propylbenzene 9.95 2.0 0.098 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 4-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 4-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 1,4-Bichlorobenzene 9.97 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlo	Isopropylbenzene	10.1	2.0	0.11	1	04/11/08	04/11/08	KWG0803341	
Bromobenzene 9.94 2.0 0.18 1 04/11/08 04/11/08 KWG0803341 n-Propylbenzene 9.95 2.0 0.098 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 4-Chlorotoluene 9.58 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.58 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 9.97 2.0 0.13 0 04/11/08 04/11/08 KWG0803341 tal-Sopropyltoluene 9.87 0.50 <th>1,1,2,2-Tetrachloroethane</th> <th>8.84</th> <th>0.50</th> <th>0.14</th> <th>1</th> <th>04/11/08</th> <th>04/11/08</th> <th>KWG0803341</th> <th></th>	1,1,2,2-Tetrachloroethane	8.84	0.50	0.14	1	04/11/08	04/11/08	KWG0803341	
n-Propylbenzene 9.95 2.0 0.098 1 04/11/08 04/11/08 KWG0803341 2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 4-Chlorotoluene 9.58 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 9.98 2.0 0.15 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 10.0 2.0 0.15 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 10.7 2.0 0.13 1 04/11/08 KWG0803341 1,4-Isopropyltoluene 9.81 2.0 0.13 1 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.67 0.50 0.12 1 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 <td< th=""><th>1,2,3-Trichloropropane</th><th>9.43</th><th>0.50</th><th>0.24</th><th>1</th><th>04/11/08</th><th>04/11/08</th><th>KWG0803341</th><th></th></td<>	1,2,3-Trichloropropane	9.43	0.50	0.24	1	04/11/08	04/11/08	KWG0803341	
2-Chlorotoluene 9.79 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 4-Chlorotoluene 9.58 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 10.0 2.0 0.15 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 10.0 2.0 0.15 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.81 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.67 0.50 0.12 1 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 KWG0803341 1,2-J-Dichlorobenzene	Bromobenzene	9.94	2.0	0.18	1	04/11/08	04/11/08	KWG0803341	
4-Chlorotoluene 9.58 2.0 0.12 1 04/11/08 04/11/08 KWG0803341 1,3,5-Trimethylbenzene 9.71 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 tert-Butylbenzene 10.0 2.0 0.15 1 04/11/08 04/11/08 KWG0803341 sec-Butylbenzene 10.7 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 4-Isopropyltoluene 9.81 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.67 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 KWG0803341 1,2-	n-Propylbenzene	9.95	2.0	0.098	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trimethylbenzene9.712.00.13104/11/0804/11/08KWG0803341tert-Butylbenzene9.982.00.13104/11/0804/11/08KWG08033411,2,4-Trimethylbenzene10.02.00.15104/11/0804/11/08KWG0803341sec-Butylbenzene10.72.00.13104/11/0804/11/08KWG08033411,3-Dichlorobenzene9.920.500.11104/11/0804/11/08KWG08033414-Isopropyltoluene9.812.00.13104/11/0804/11/08KWG08033411,4-Dichlorobenzene9.670.500.12104/11/0804/11/08KWG0803341n-Butylbenzene9.972.00.23104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-J-Trichlorobenzene10.72.00.22104/11/0804/11/08KWG08033411,2,3-Trichlorobenzene10.72.00.22104/11/08<	2-Chlorotoluene	9.79	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
tert-Butylbenzene 9.98 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trimethylbenzene 10.0 2.0 0.15 1 04/11/08 04/11/08 KWG0803341 sec-Butylbenzene 10.7 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 4-Isopropyltoluene 9.81 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.67 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 n-Butylbenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Jibromo-3-chloropropane 10.5 2.0 1.0 1 04/11/08 04/11/08 KWG0803341	4-Chlorotoluene	9.58	2.0	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2,4-Trimethylbenzene10.02.00.15104/11/0804/11/08KWG0803341sec-Butylbenzene10.72.00.13104/11/0804/11/08KWG08033411,3-Dichlorobenzene9.920.500.11104/11/0804/11/08KWG08033414-Isopropyltoluene9.812.00.13104/11/0804/11/08KWG08033411,4-Dichlorobenzene9.670.500.12104/11/0804/11/08KWG0803341n-Butylbenzene9.972.00.23104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Jibromo-3-chloropropane10.52.01.0104/11/0804/11/08KWG08033411,2,4-Trichlorobenzene10.72.00.22104/11/0804/11/08KWG08033411,2,3-Trichlorobenzene10.72.00.29104/11/0804/11/08KWG0803341Maphthalene10.72.00.28104/11/0804/11/08KWG0803341	1,3,5-Trimethylbenzene	9.71	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
sec-Butylbenzene10.72.00.13104/11/0804/11/08KWG08033411,3-Dichlorobenzene9.920.500.11104/11/0804/11/08KWG08033414-Isopropyltoluene9.812.00.13104/11/0804/11/08KWG08033411,4-Dichlorobenzene9.670.500.12104/11/0804/11/08KWG0803341n-Butylbenzene9.972.00.23104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dibromo-3-chloropropane10.52.01.0104/11/0804/11/08KWG08033411,2,3-Trichlorobenzene10.72.00.33104/11/0804/11/08KWG0803341Naphthalene10.72.00.29104/11/0804/11/08KWG0803341Hexachlorobutadiene10.32.00.28104/11/0804/11/08KWG0803341	tert-Butylbenzene	9.98	2.0	0.13	1	04/11/08	04/11/08		
1,3-Dichlorobenzene 9.92 0.50 0.11 1 04/11/08 04/11/08 KWG0803341 4-Isopropyltoluene 9.81 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.67 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 n-Butylbenzene 9.67 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dibromo-3-chloropropane 10.5 2.0 1.0 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trichlorobenzene 10.7 2.0 0.22 1 04/11/08 KWG0803341 1,2,3-Trichlorobenzene 10.7 2.0 0.29 1 04/11/08 KWG0803341 Naphthalene 10.7 2.0 0.29 1 04/11/08 KWG0803341	1,2,4-Trimethylbenzene	10.0	2.0	0.15	1	04/11/08	04/11/08		
4-Isopropyltoluene 9.81 2.0 0.13 1 04/11/08 04/11/08 KWG0803341 1,4-Dichlorobenzene 9.67 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 n-Butylbenzene 9.97 2.0 0.23 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 04/11/08 KWG0803341 1,2,4-Trichlorobenzene 10.5 2.0 1.0 1 04/11/08 04/11/08 KWG0803341 1,2,3-Trichlorobenzene 10.7 2.0 0.22 1 04/11/08 04/11/08 KWG0803341 Naphthalene 10.7 2.0 0.33 1 04/11/08 04/11/08 KWG0803341 Hexachlorobutadiene 10.3 2.0 0.28 1 04/11/08 04/11/08 KWG0803341 <th>sec-Butylbenzene</th> <th>10.7</th> <th>2.0</th> <th>0.13</th> <th>1</th> <th>04/11/08</th> <th>04/11/08</th> <th>KWG0803341</th> <th></th>	sec-Butylbenzene	10.7	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,4-Dichlorobenzene9.670.500.12104/11/08KWG0803341n-Butylbenzene9.972.00.23104/11/08KWG08033411,2-Dichlorobenzene9.870.500.12104/11/08KWG08033411,2-Dibromo-3-chloropropane10.52.01.0104/11/08KWG08033411,2,4-Trichlorobenzene10.72.00.22104/11/08KWG08033411,2,3-Trichlorobenzene11.22.00.33104/11/08KWG0803341Naphthalene10.72.00.29104/11/08KWG0803341Hexachlorobutadiene10.32.00.28104/11/08KWG0803341	1,3-Dichlorobenzene	9.92	0.50	0.11	1	04/11/08	04/11/08	KWG0803341	
n-Butylbenzene 9.97 2.0 0.23 1 04/11/08 KWG0803341 1,2-Dichlorobenzene 9.87 0.50 0.12 1 04/11/08 KWG0803341 1,2-Dibromo-3-chloropropane 10.5 2.0 1.0 1 04/11/08 KWG0803341 1,2-A-Trichlorobenzene 10.7 2.0 0.22 1 04/11/08 KWG0803341 1,2,4-Trichlorobenzene 10.7 2.0 0.22 1 04/11/08 KWG0803341 1,2,3-Trichlorobenzene 11.2 2.0 0.33 1 04/11/08 KWG0803341 Naphthalene 10.7 2.0 0.29 1 04/11/08 KWG0803341 Hexachlorobutadiene 10.3 2.0 0.28 1 04/11/08 KWG0803341	4-Isopropyltoluene	9.81	2.0	0.13	1	04/11/08	04/11/08	KWG0803341	
1,2-Dichlorobenzene9.870.500.12104/11/0804/11/08KWG08033411,2-Dibromo-3-chloropropane10.52.01.0104/11/0804/11/08KWG08033411,2,4-Trichlorobenzene10.72.00.22104/11/0804/11/08KWG08033411,2,3-Trichlorobenzene11.22.00.33104/11/08KWG0803341Naphthalene10.72.00.29104/11/08KWG0803341Hexachlorobutadiene10.32.00.28104/11/08KWG0803341	1,4-Dichlorobenzene	9.67	0.50	0.12	1	04/11/08	04/11/08	KWG0803341	
1,2-Dibromo-3-chloropropane10.52.01.0104/11/08KWG08033411,2,4-Trichlorobenzene10.72.00.22104/11/08KWG08033411,2,3-Trichlorobenzene11.22.00.33104/11/08KWG0803341Naphthalene10.72.00.29104/11/08KWG0803341Hexachlorobutadiene10.32.00.28104/11/08KWG0803341	n-Butylbenzene	9.97	2.0		1	04/11/08	04/11/08		
1,2,4-Trichlorobenzene10.72.00.22104/11/08KWG08033411,2,3-Trichlorobenzene11.22.00.33104/11/08KWG0803341Naphthalene10.72.00.29104/11/08KWG0803341Hexachlorobutadiene10.32.00.28104/11/08KWG0803341	1,2-Dichlorobenzene	9.87	0.50	0.12	1	04/11/08	04/11/08		
1,2,3-Trichlorobenzene 11.2 2.0 0.33 1 04/11/08 KWG0803341 Naphthalene 10.7 2.0 0.29 1 04/11/08 KWG0803341 Hexachlorobutadiene 10.3 2.0 0.28 1 04/11/08 KWG0803341	1,2-Dibromo-3-chloropropane	10.5	2.0	1.0	1	04/11/08	04/11/08	KWG0803341	
Naphthalene 10.7 2.0 0.29 1 04/11/08 KWG0803341 Hexachlorobutadiene 10.3 2.0 0.28 1 04/11/08 KWG0803341	1,2,4-Trichlorobenzene				1	04/11/08	04/11/08		
Hexachlorobutadiene 10.3 2.0 0.28 1 04/11/08 KWG0803341	1,2,3-Trichlorobenzene								
	Naphthalene	10.7	2.0	0.29	1	04/11/08	04/11/08	KWG0803341	
1,3,5-Trichlorobenzene 42.2 5.0 0.35 1 04/11/08 KWG0803341	Hexachlorobutadiene	10.3	2.0	0.28	1	04/11/08	04/11/08	KWG0803341	
	1,3,5-Trichlorobenzene	42.2	5.0	0.35	1	04/11/08	04/11/08	KWG0803341	

* See Case Narrative

Comments:

Merged

Form 1A - Organic

Page 2 of 3

Analytical Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

Service Request: K0802796 Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:	Lab Control Sample KWG0803341-3				Units: ug/L Basis: NA
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethan	e 109	75-120	04/11/08	Acceptable	<u>, , , , , , , , , , , , , , , , , , , </u>
Toluene-d8	120	80-128	04/11/08	Acceptable	
4-Bromofluorobenzen	e 109	75-117	04/11/08	Acceptable	

Comments:

Merged

Data File: J:\MS04\DATA\041108\0411F004.D Lab ID: KWG0803341-3 RunType: LCS Matrix: WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: MethodJoinID:

04/11/2008 10:37 04/11/2008 11:20 KWG0803340 8260B MJ119

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA		x
Continuing Calibration Minimum RF	NA	NA	NA		x
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	<u></u>
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0007	0.01	NA	NT
	tert-Butyl Alcohol	0.0067	0.01	NA	
	Isobutyl Alcohol	0.0027	0.01	NA	
	2-Butanone (MEK)	0.0099	0.01	NA	MRLCheck
Continuing Calibration Recovery	Tetrahydrofuran	203.5	NA	30	NT
	2-Nitropropane	34.3	NA	30	1
Continuing Calibration Minimum RF	1,4-Dioxane	0.0010	0.01	NA	
	tert-Butyl Alcohol	0.0062	0.01	NA	
	Isobutyl Alcohol	0.0029	0.01	NA	

Primary Review: HC.4. 11.UK Secondary Review: Page 1 of

1

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	ttle ID:								WATE		
	od Code: 8260B VOC_FP			Tier: Collect Date:	Tier: Collect Date:			Matrix: Receive Date:			- name and the second second second
	alysis Lot: KWG0803340 alysis Method: 8260B			Prep Lot: KWG0803341			Report	Group:			a da na a da agua a da a da a da a da
	Prep Ref: 700865		Prep Method: EPA 5030B Prep Date: 04/11/2008						- 4		
Qu Tit	ant Method: J:\MS04\METHO	DS\101007	7MS04-8	· · · · · · · · · · · · · · · · · · ·			Calibra	tion ID:	CAL669	6	
Tune Ref: J:\MS04\DATA\041108\0411F002.D MB Ref:					Method ID: MJ119 Quant based on Method						
	ta File: J:\MS04\DATA\04		1F004.D				Instrun	nent:	MS04		
Acqu Date: 04/11/2008 10:37 Run Type: LCS Lab ID: KWG0803341-3		,		Quant Date:	04/11	/2008 11:20	Vial: Dilution Soln Co	n: onc. Units:	4 1.0 PPB		anne an faith an
 Inte	rnal Standard Compounds										. 1091-1
IS Ref	Parameter Name	RT	RT Dev		Quant Mass	Response	Solution Conc		C	Area Friteria	W Totomo (Marine Anno)
	Fluorobenzene	13.11	-0.01		96	1956745	10.00			OK	- C-O TO
	Chlorobenzene-d5	17.38	-0.01		117	1490599	10.00			OK	1
5	1,4-Dichlorobenzene-d4	20.02	-0.01		152	820865	10.00			OK	
	rogate Compounds										
S Ref	Parameter Name	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt'
	Dibromofluoromethane	12.00	0.01	0.00	113	559451	10.89	109	75-120	OK	
l	1,2-Dichloroethane-d4 Toluene-d8	12.60	0.01	0.00	65	414096	11.83	118	62-121	OK	9
	4-Bromofluorobenzene	15.46 18.74	0.01 0.00	0.00 0.00	98 05	1787667	12.03	120	80-128	ł	e de la comp
Fari	get Compounds	10.74	0.00	0.00	95	645679 Final (10.90	109	75-117	OK	
uig	zer Compounus		RT	RRT	0	Final C	Conc. Units:	ug/L			
IS	Parameter Name	RT	Dev	Dev	QuantM ass	Response	Solution Conc	Fina Conc		Q	Rpt?
								0			
	Dichlorodifluoromethane	4.76	-0.01	0.00	85	562096	9.71	9.71			
Ref 1 1	Chloromethane	5.25	-0.01	0.00	50	640601	9.71 8.51	9.71 8.51			
Ref 1	Chloromethane Vinyl Chloride		-0.01								
Ref 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane	5.25 5.52 6.30	-0.01	0.00 0.00 0.00	50 62 94	640601 623753 429344	8.51 9.94 9.65	8.51 9.94 9.65		:	
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane	5.25 5.52 6.30 6.52		0.00 0.00 0.00 0.00	50 62 94 64	640601 623753 429344 416831	8.51 9.94 9.65 8.90	8.51 9.94 9.65 8.90		- 	-
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21	5.25 5.52 6.30 6.52 6.90		0.00 0.00 0.00 0.00 0.00	50 62 94 64 67	640601 623753 429344 416831 1184067	8.51 9.94 9.65 8.90 10.83	8.51 9.94 9.65 8.90 10.8		- 	
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane	5.25 5.52 6.30 6.52 6.90 7.04		0.00 0.00 0.00 0.00 0.00 0.00	50 62 94 64 67 101	640601 623753 429344 416831 1184067 866773	8.51 9.94 9.65 8.90 10.83 12.39	8.51 9.94 9.65 8.90 10.8 12.4			
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether	5.25 5.52 6.30 6.52 6.90 7.04 7.56		0.00 0.00 0.00 0.00 0.00 0.00 0.00	50 62 94 64 67 101 59	640601 623753 429344 416831 1184067 866773 273983	8.51 9.94 9.65 8.90 10.83 12.39 9.47	8.51 9.94 9.65 8.90 10.8 12.4 9.47			
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane	5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	50 62 94 64 67 101 59 151	640601 623753 429344 416831 1184067 866773 273983 508575	8.51 9.94 9.65 8.90 10.83 12.39 9.47 11.28	8.51 9.94 9.65 8.90 10.8 12.4 9.47 11.3			
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane 1,1-Dichloroethene	5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	50 62 94 64 67 101 59 151 96	640601 623753 429344 416831 1184067 866773 273983 508575 576836	8.51 9.94 9.65 8.90 10.83 12.39 9.47 11.28 12.04	8.51 9.94 9.65 8.90 10.8 12.4 9.47 11.3 12.0			
1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane 1,1-Dichloroethene Acetone	5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06 8.11	-0.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	50 62 94 64 67 101 59 151 96 43	640601 623753 429344 416831 1184067 866773 273983 508575 576836 266714	8.51 9.94 9.65 8.90 10.83 12.39 9.47 11.28 12.04 52.56	8.51 9.94 9.65 8.90 10.8 12.4 9.47 11.3 12.0 52.6		· · · · · · · · · · · · · · · · · · ·	
Ref 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chloromethane Vinyl Chloride Bromomethane Chloroethane Dichlorofluoromethane (CFC 21 Trichlorofluoromethane Ethyl Ether Trichlorotrifluoroethane 1,1-Dichloroethene	5.25 5.52 6.30 6.52 6.90 7.04 7.56 8.01 8.06		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	50 62 94 64 67 101 59 151 96	640601 623753 429344 416831 1184067 866773 273983 508575 576836	8.51 9.94 9.65 8.90 10.83 12.39 9.47 11.28 12.04	8.51 9.94 9.65 8.90 10.8 12.4 9.47 11.3 12.0			

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 11:22:56 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F004.D

Data File: Acqu Date: Run Type: Lab ID:	J:\MS04\DATA\041108\0411F004.D 04/11/2008 10:37 LCS KWG0803341-3	Quant Date:	04/11/2008 11:20	Instrument: Vial: Dilution: Soln Conc. Units:	MS04 4 1.0 PPB
Target Compo	ounds		Final C	one Unite: wa/I	

	zet Compounds					Final C	onc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt?
1	3-Chloro-1-propene	8.70	0.01	0.00	41	2502589 m	29.80	29.8		<u></u>
1	Acetonitrile	8.65	0.01	0.00	41	677174 m	232.57	233		
1	Methylene Chloride	8.92		0.00	84	641327	9.37	9.37		
1	tert-Butyl Alcohol	8.98		0.00	59	148173	113.49	113		
ŀ	Methyl tert-Butyl Ether	9.34		0.00	73	845836	11.00	11.0		
1	trans-1,2-Dichloroethene	9.40		0.00	96	648989	10.55	10.6		
1	n-Hexane	9.82		0.00	57	2035581	29.07	29.1		
1	1,1-Dichloroethane	10.15		0.00	63	1030447	10.50	10.5		
1	Vinyl Acetate	10.13	-0.01	0.00	86	189120	30.07	30.1		
1	Acrylonitrile	9.34		0.00	53	326063	37.45	37.5		
1	Diisopropyl Ether	10.13	-0.01	0.00	45	2982787	19.39	19.4		
1	Chloroprene	10.30	-0.01	0.00	88	1594256	37.75	37.8		
1	tert-Butyl Ethyl Ether	10.79	-0.01	0.00	59	2315698	21.58	21.6		
1	2,2-Dichloropropane	11.21	-0.01	0.00	77	879474	13.20	13.2		
1	Ethyl Acetate	11.20	0.01	0.00	70	61595	25.10	25.1		
1	cis-1,2-Dichloroethene	11.20	0.01	0.00	96	668578	10.59	10.6		
1	2-Butanone (MEK)	11.16		0.00	72	102532	52.76	52.8		
1	Propionitrile	11.31		0.00	54	79755	29.09	29.1		
1	Methacrylonitrile	11.58	0.01	0.00	67	280646	30.61	30.6		
1	Bromochloromethane	11.63	-0.01	0.00	128	307112	10.32	10.3		
1	Chloroform	11.71		0.00	83	1027964	11.24	11.2		
1	tert-Butyl Formate	11.79	-0.01	0.00	59	560262	28.57	28.6		
1	Tetrahydrofuran	11.70	-0.01	0.00	42	205833	42.24	42.2		
1	1,1,1-Trichloroethane (TCA)	12.09		0.00	97	847314	12.65	12.7		
1	Isobutyl Alcohol	12.32	0.01	0.00	43	166287	313.82	314		
1	Carbon Tetrachloride	12.37		0.00	117	738886	12.92	12.9		
1	1,1-Dichloropropene	12.34	-0.01	0.00	75	819721	11.55	11.6		
1	tert-Amyl Methyl Ether	12.77		0.00	55	451256	22.05	22.1		
1	Benzene	12.71		0.00	78	2171651	10.18	10.2		
1	1,2-Dichloroethane (EDC)	12.72		0.00	62	578261	12.52	12.5		
1	Trichloroethene (TCE)	13.68		0.00	95	605709	11.31	11.3		
1	Methyl Methacrylate	14.06	-0.01	0.00	69	461968	32.33	32.3		
1	1,2-Dichloropropane	14.05	0.01	0.00	63	492638	9.62	9.62		
1	1,4-Dioxane	14.18	-0.01	0.00	88	60105	412.46	412		
1	Dibromomethane	14.24		0.00	93	278016	10.73	10.7		
	Bromodichloromethane	14.42		0.00	83	708836	12.19	12.2		
1	2-Chloroethyl Vinyl Ether	14.77		0.00	63	75997	8.84	8.84		
1	2-Nitropropane	14.75	0.01	0.00	41	164961	38.81	38.8		
	cis-1,3-Dichloropropene	15.05	-0.01	0.00	75	774312	11.37	11.4		
1	4-Methyl-2-pentanone (MIBK)	15.21	-0.01	0.00	100	137249	52.27	52.3		
1	Toluene	15.56	0.01	0.00	92	1383034	10.79	10.8		
2	Ethyl Methacrylate	15.83		0.00	69	1015188	32.00	32.0		

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 11:22:56 $u:\Stealth\Crystal.rpt\quantl.rpt$

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

Page 2 of 4

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J:\MS04\DATA\041108\0411F004.D

Data File: Acqu Date:	J:\MS04\DATA\041108\0411F004.D 04/11/2008 10:37	Quant Date:	04/11/2008 11:20	Instrument: Vial:	MS04
Run Type: Lab ID:	LCS KWG0803341-3		0.01112000-11.20	Dilution: Soln Conc. Units:	4 1.0 PPB

	get Compounds					Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpf
2	n-Octane	15.58	0.01	0.00	85	809178	22.46	22.5		
2	trans-1,3-Dichloropropene	15.81		0.00	75	558535	10.51	10.5		
2	1,1,2-Trichloroethane	16.09	ing and an and an and an and an	0.00	83	284654	10.12	10.1		
2	Tetrachloroethene (PCE)	16.31		0.00	164	597989	11.26	11.3		
2	2-Hexanone	16.34	a normal and the second	0.00	57	101297	52.76	52.8		
2	1,3-Dichloropropane	16.33	0.01	0.00	76	599172	9.93	9.93		
2	Dibromochloromethane	16.65		0.00	129	476582	10.68	10.7		
2	1,2-Dibromoethane (EDB)	16.84		0.00	107	368957	10.43	10.4		
2	l-Chlorohexane	17.29		0.00	55	519649	11.03	10.4		
2	Chlorobenzene	17.42		0.00	112	1603941	10.17	10.2		
2	Ethylbenzene	17.51	0.01	0.00	106	814409	10.48	10.5		
2	1,1,1,2-Tetrachloroethane	17.50	0.01	0.00	131	534290	10.48	10.3		
2	m,p-Xylenes	17.63		0.00	106	2087992	21.18	21.2		
2	o-Xylene	18.12	-0.01	0.00	106	987478	·····			
2	Styrene	18.12	-0.01	0.00	108	987478 1585233	10.85	10.9		
2	Bromoform	18.42	-0.01	0.00	104	274523	10.71 12.25	10.7 12.3		
2	Isopropylbenzene	18.52	-0.01				·····			
3	cis-1,4-Dichloro-2-butene	18.52	-0.01 0.01	0.00	105	2382354	10.08	10.1		
3	1,1,2,2-Tetrachloroethane	18.85	0.01	0.00 0.00	88	262113	36.87	36.9		
					83	331343	8.84	8.84		
3	Bromobenzene	18.95		0.00	156	720449	9.94	9.94		
3 3	n-Propylbenzene trans-1,4-Dichloro-2-butene	18.98	0.01	0.00	91	3149754	9.95	9.95		
·		18.90		0.00	53	240418	34.48	34.5		
3	1,2,3-Trichloropropane	18.93		0.00	110	96868	9.43	9.43		
3	2-Chlorotoluene	19.13	0.01	0.00	91	2009076	9.79	9.79		
3	1,3,5-Trimethylbenzene	19.14		0.00	105	2068965	9.71	9.71		
3	4-Chlorotoluene	19.24	0.01	0.00	91	1812720	9.58	9.58		
3	tert-Butylbenzene	19.53		0.00	134	522726	9.98	9.98		
3	1,2,4-Trimethylbenzene	19.58	0.01	0.00	105	2076459	10.00	10.0		
3	sec-Butylbenzene	19.76	-0.01	0.00	105	2926578	10.73	10.7		
3	4-Isopropyltoluene	19.90	0.01	0.00	119	2339647	9.81	9.81		
3	1,3-Dichlorobenzene	19.96		0.00	146	1352428	9.92	9.92		
3	1,4-Dichlorobenzene	20.06	0.01	0.00	146	1357751	9.67	9.67		
3	n-Butylbenzene	20.35	-0.01	0.00	91	2029256	9.97	9.97		
3	1,2-Dichlorobenzene	20.50		0.00	146	1126761	9.87	9.87		
3	1,2-Dibromo-3-chloropropane	21.41		0.00	157	57934	10.45	10.5		
3	1,3,5-Trichlorobenzene	21.63		0.00	180	3324158	42:15	42.2		
3	1,2,4-Trichlorobenzene	22.45		0.00	180	591054	10.65	42.2		
3	Hexachlorobutadiene	22.61	0.01	0.00	225	275024	10.33			
	Naphthalene	22.85	0.01	0.00	128	273024 696618	10.33	10.3 10.7		
	1,2,3-Trichlorobenzene	23.18		0.00	128	415560	11.19	10.7 11.2		
	1,1,2-Trifluoroethane								•••	
	Bis(chloromethyl) Ether				0	0		1.0	UJ	NR
	sistementary i suiter				0	0		1.0	UJ	NR

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 11:22:56 $u:\Stealth\Crystal.rpt\quant1.rpt$

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL

c: check for co-elution

Page

3 of 4

J:\MS04\DATA\041108\0411F004.D

Data File: Acqu Date: Run Type: Lab ID:	J:\MS04\DATA\041 04/11/2008 10:37 LCS KWG0803341-3	108\041		Quant Date:	04/11/	2008	11:20	Instrume Vial: Dilution: Soln Con	-	MS04 4 1.0 PPB	operation approach and the constant of the constant and the second second second second second second second se
Target Comp	ounds						Final	Conc. Units:	ug/L		
Parameter	Name	RT	RT Dev		QuantM ass	Res	ponse	Solution Conc	Final Conc	Q	Rpt
1,1-Dichle	oropropane				0		0		1.0	UJ	NR
Cyclohexa					0		0		4.0	UJ	NR
Prep Amount: Prep Final Vol:	10 ml	5. T	Dilution:	-	1.0						remonavana Sint treita

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank

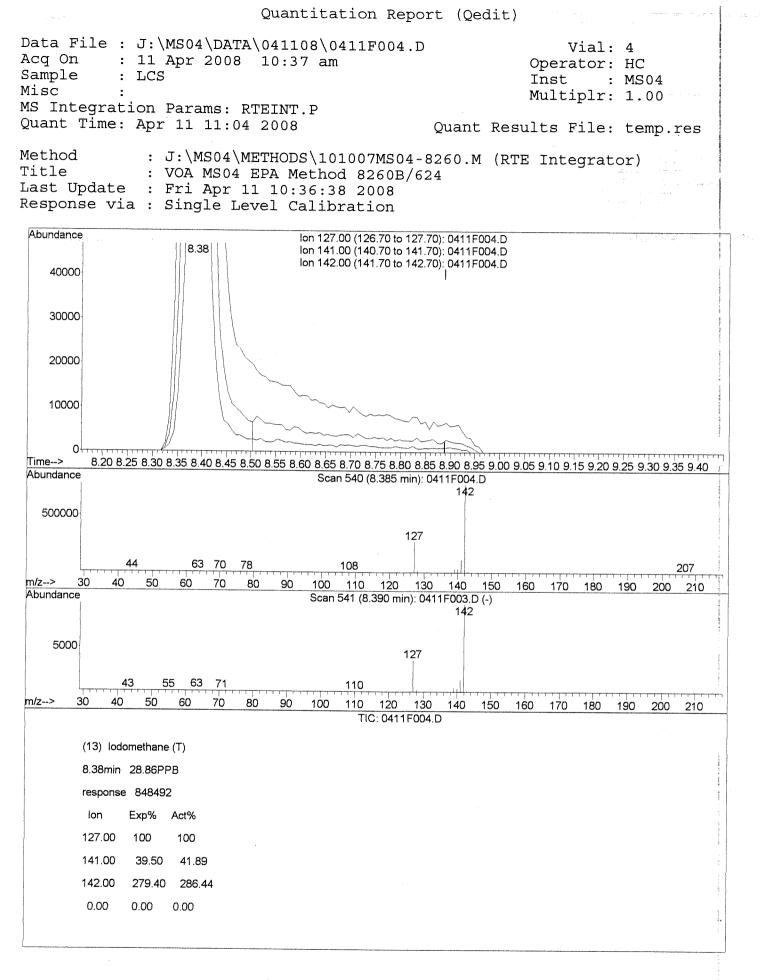
E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 11:22:56 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

J:\MS04\DATA\041108\0411F004.D

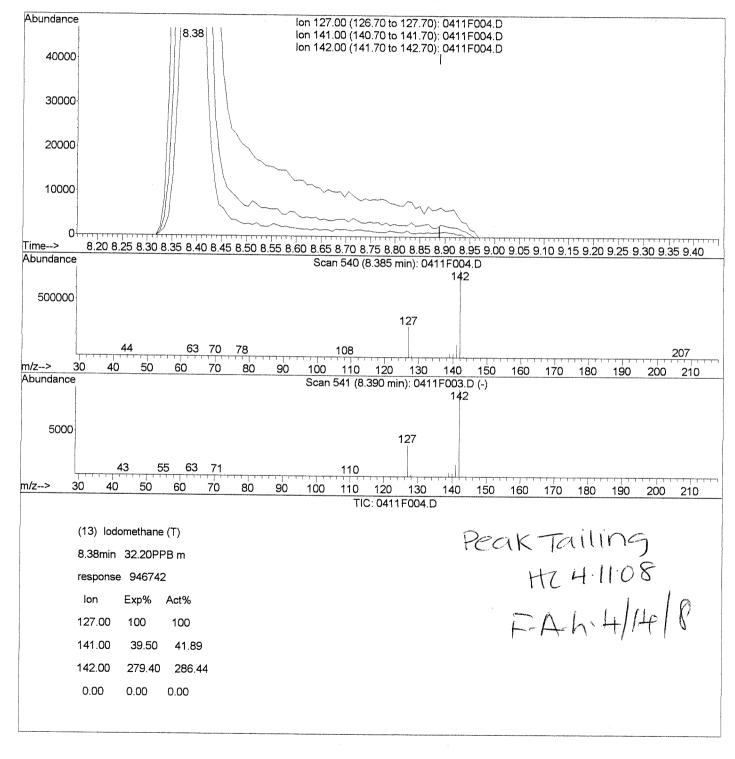
*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution



0411F004.D 101007MS04-8260.M

Fri Apr 11 11:19:23 2008

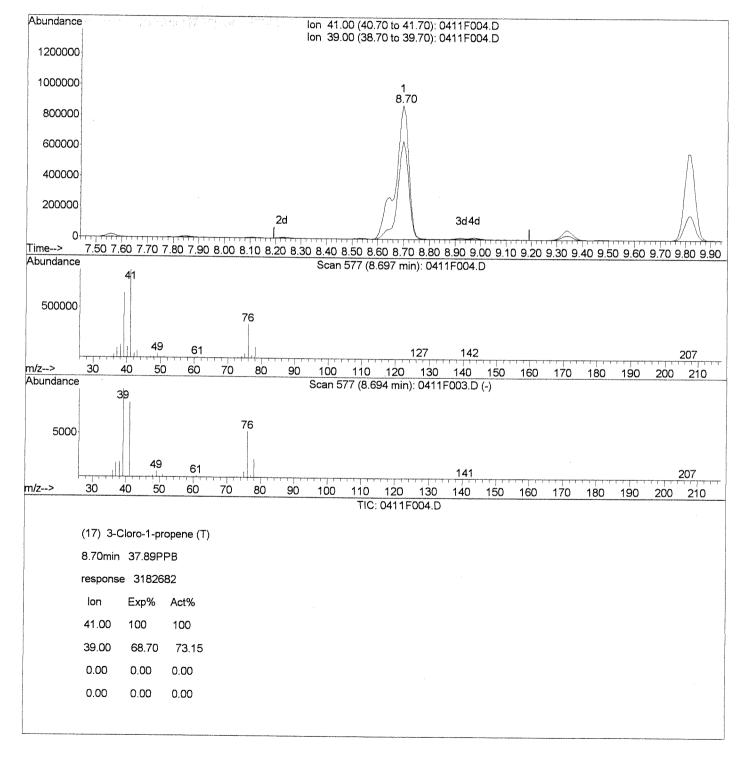
Quantitation Report (Qedit) Data File : J:\MS04\DATA\041108\0411F004.D Vial: 4 Acq On : 11 Apr 2008 10:37 am Operator: HC Sample : LCS Inst : MS04 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 11 11:19 2008 Quant Results File: temp.res Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Fri Apr 11 10:36:38 2008 Response via : Single Level Calibration



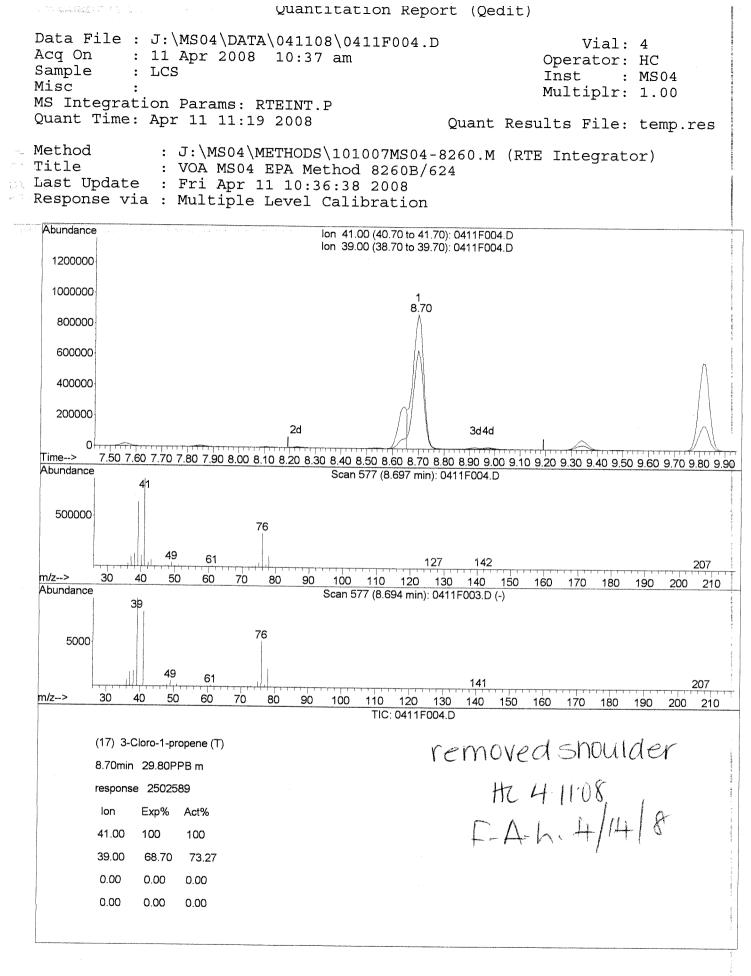
0411F004.D 101007MS04-8260.M

Fri Apr 11 11:19:28 2008

Generation Report (Qedit) Data File : J:\MS04\DATA\041108\0411F004.D Vial: 4 Acq On : 11 Apr 2008 10:37 am Operator: HC Sample : LCS Inst : MS04 Misc : Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 11 11:19 2008 Quant Results File: temp.res Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Fri Apr 11 10:36:38 2008 Response via : Multiple Level Calibration

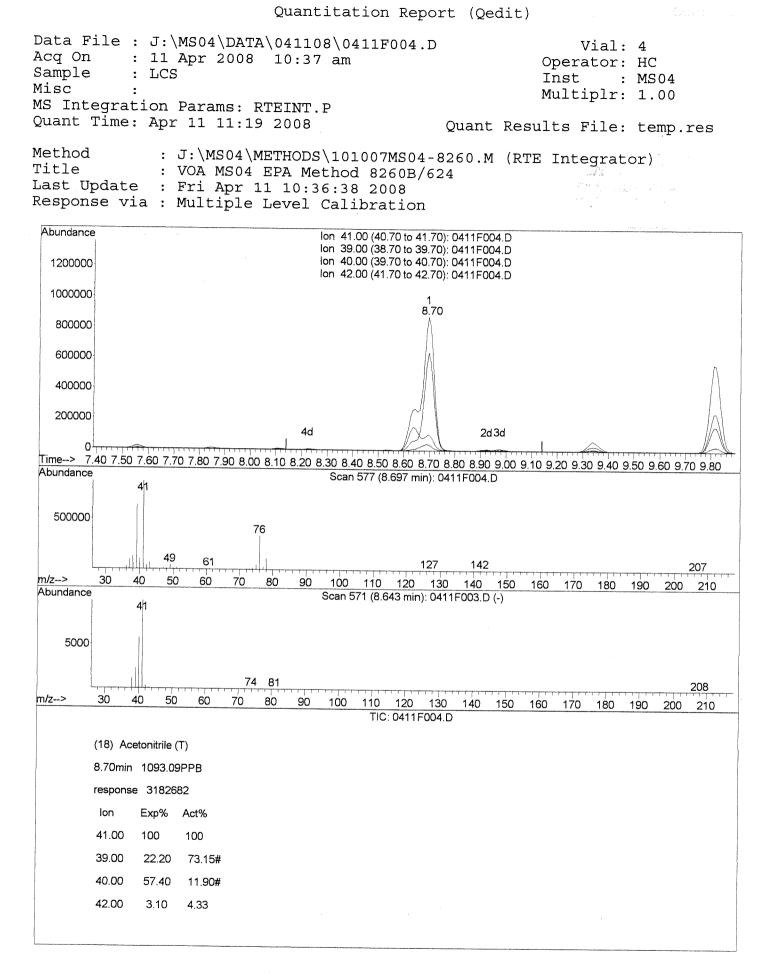


Fri Apr 11 11:19:33 2008



0411F004.D 101007MS04-8260.M

Fri Apr 11 11:19:40 2008



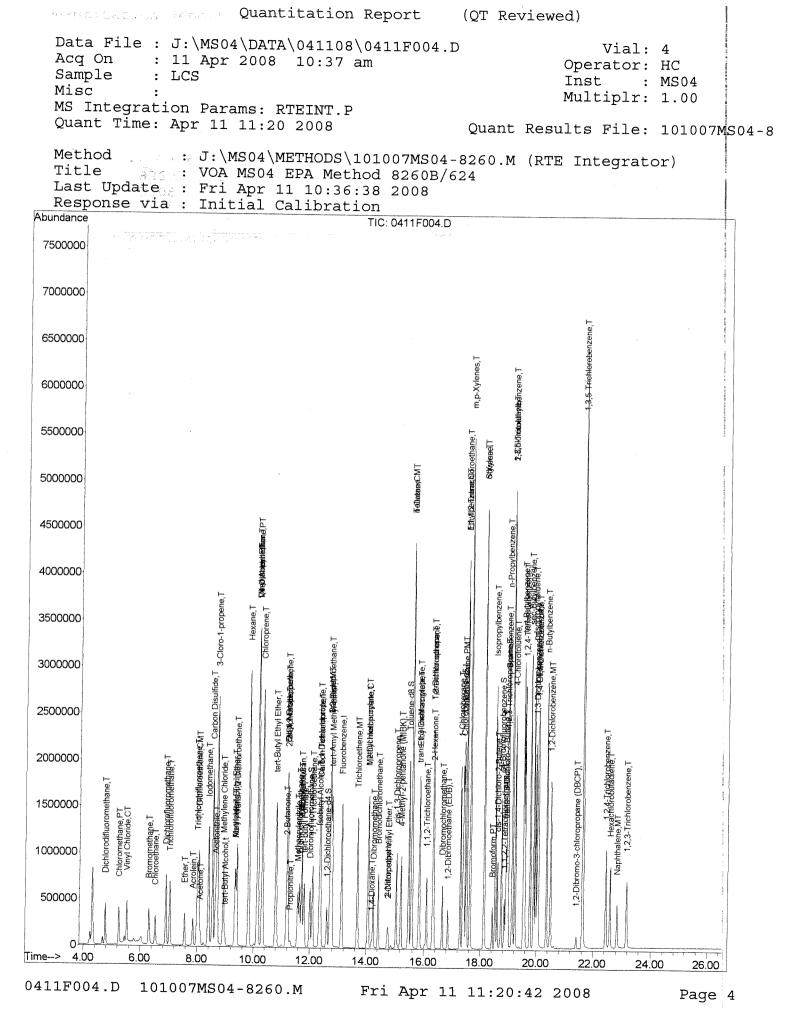
0411F004.D 101007MS04-8260.M

Fri Apr 11 11:19:42 2008

Quantitation Report (Qedit) Data File : J:\MS04\DATA\041108\0411F004.D Vial: 4 Acq On : 11 Apr 2008 10:37 am Operator: HC Sample : LCS Inst : MS04 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 11 11:19 2008 Quant Results File: temp.res Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Fri Apr 11 10:36:38 2008 Response via : Multiple Level Calibration Abundance lon 41.00 (40.70 to 41.70); 0411F004.D lon 39.00 (38.70 to 39.70): 0411F004.D 1200000 lon 40.00 (39.70 to 40.70): 0411F004.D lon 42.00 (41.70 to 42.70): 0411F004.D 1000000 800000 600000 400000 8.65 200000 4d 2d3d n Time--> 7.40 7.50 7.60 7.70 7.80 7.90 8.00 8.10 8.20 8.30 8.40 8.50 8.60 8.70 8.80 8.90 9.00 9.10 9.20 9.30 9.40 9.50 9.60 9.70 9.80 Abundance Scan 571 (8.647 min): 0411F004.D 200000 100000 74 49 59 142 96 127 207 m/z--> 40 30 50 60 70 80 90 100 130 140 110 120 150 160 170 180 190 200 210 Abundance Scan 571 (8.643 min): 0411F003.D (-) 41 5000 74 81 208 m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 TIC: 0411F004.D (18) Acetonitrile (T) Wrong peak Hz 4.11.08 F-A-h:4/14/8 8.65min 232.57PPB m response 677174 lon Exp% Act% 41.00 100 100 39.00 22.20 23.54 40.00 57.40 53.13 42.00 3.10 4.21

0411F004.D 101007MS04-8260.M

Fri Apr 11 11:19:48 2008



Organic Analysis: <u>Volatile Organic Compounds</u>

Validation Package

Standards Data

 $u: \label{eq:linear} u: \lab$

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

 Service Request:
 K0802796

 Date Analyzed:
 04/11/2008

 Time Analyzed:
 09:29

Tune Summary Volatile Organic Compounds

File ID:	J:\MS04\DATA\041108\0411F002.D
Instrument ID:	MS04
Column:	

Analysis Method: 8260B Analysis Lot: KWG0803340

> Time Analyzed

> > 10:05 10:37 11:09 11:41 13:17 14:53 15:25 15:57

Q

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.7	24917	PASS
75	95	30	60	44.7	66776	PASS
95	95	100	100	100.0	149226	PASS
96	95	5	9	7.1	10567	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	101.5	151538	PASS
175	174	5	9	8.4	12689	PASS
176	174	95	101	95.3	144365	PASS
177	176	5	9	7.0	10104	PASS

			Date
Sample Name	Lab Code	File ID	Analyzed
Continuing Calibration Verification	KWG0803340-2	J:\MS04\DATA\041108\0411F003.D	04/11/2008
Lab Control Sample	KWG0803341-3	J:\MS04\DATA\041108\0411F004.D	04/11/2008
KEP-GW-020A-003MS	KWG0803341-1	J:\MS04\DATA\041108\0411F005.D	04/11/2008
KEP-GW-020A-003DMS	KWG0803341-2	J:\MS04\DATA\041108\0411F006.D	04/11/2008
Method Blank	KWG0803341-4	J:\MS04\DATA\041108\0411F009.D	04/11/2008
KEP-GW-020A-003	K0802796-001	J:\MS04\DATA\041108\0411F012.D	04/11/2008
KEP-GW-020B-003	K0802796-002	J:\MS04\DATA\041108\0411F013.D	04/11/2008
Duplcate 2	K0802796-003	J:\MS04\DATA\041108\0411F014.D	04/11/2008

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

Page

 Data File:
 J:\MS04\DATA\041108\0411F002.D

 Lab ID:
 KWG0803340-1

 RunType:
 TUNE

 Matrix:
 WATER

04/11/2008 09:29

Date Acquired: Date Quantitated: Batch ID: Analysis Method: MethodJoinID:

KWG0803340 8260B MJ119

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Ion Ratio	NA	NA	NA	x	

Primary Review:	HC 4.11.08
Secondary Review:	F-A-h-+/14/8
	Page 1 of 1

Printed: 04/11/2008 10:41:36 u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID: Prod Code:	8260B	Tier: Collect Date:	Matrix: Receive Date:	WATER 04/11/2008
Analysis Lot: Analysis Method: Prep Ref:	KWG0803340 BFB	Prep Lot: Prep Method: Prep Date:	Report Group:	
Quant Method: Title: Tune Ref: MB Ref:	J:\MS04\METHODS\101007MS04-8 GC/MS Tuning Evaluation		Calibration ID: Report List ID: Method ID: Quant based on I	CAL6696 LJ774 MJ159 Report List
Data File: Acqu Date: Run Type: Lab ID:	J:\MS04\DATA\041108\0411F002.D 04/11/2008 09:29 TUNE KWG0803340-1	Quant Date:	Instrument: Vial: Dilution: Soln Conc. Units:	MS04 2 1.0

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.7	24917	Pass
75	95	30	60	44.7	66776	Pass
95	95	100	100	100.0	149226	Pass
96	95	5	9	7.1	10567	Pass
173	174	0	2	0.0	0	Pass
174	95	50	120	101.5	151538	Pass
175	174	5	9	8.4	12689	Pass
176	174	95	101	95.3	144365	Pass
177	176	5	9	7.0	10104	Pass

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/11/2008 10:40:49 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

J:\MS04\DATA\041108\0411F002.D

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-ehution

Page 1 of 1

Data File : J:\MS04\DATA\041108\0411F002.D Vial: 2 Acq On : 11 Apr 2008 9:29 am Operator: HC Sample : 50NG BFB Inst : MS04 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Method Title : VOA MS04 EPA Method 8260B/624 و حدادتها الارد الارد ا Abundance TIC: 0411F002.D 800000 600000 400000 200000 16.80 17.00 17.20 17.40 17.60 17.80 18.00 18.20 18.40 18.60 18.80 19.00 19.20 19.40 19.60 19.80 20.00 20.20 20.40 20.60 Time--> Abundance Average of 18.729 to 18.745 min.: 0411F002.D (-) 95 174 140000 120000 100000 80000 75 60000 40000 50 20000 69 37 81 87 61 44 104 117 128 141147 155 207 C 30 40 m/z--> 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 AutoFind: Scans 1766, 1767, 1768; Background Corrected with Scan 1759 17.4.11.08 Target Rel. to Lower Upper Rel. Raw Result Mass Mass Limit% Limit% Abn% Abn Pass/Fail 50 95 15 40 16.7 24917 PASS 75 95 30 60 44.7 66776 PASS 95 95 100 100 100.0 149226 PASS 96 95 5 9 7.1 10567 PASS 173 174 0.00 2 0.0 0 PASS 174 95 50 101.5 120 151538 PASS 175 174 5 9 8.4 12689 PASS 176 174 95 101 95.3 144365

BFB

0411F002.D

177

101007MS04-8260.M

5

176

Fri Apr 11 10:18:23 2008

7.0

PASS

PASS

10104

158

QA/QC Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric

Initial Calibration Summary Volatile Organic Compounds

Calibrati Instrume	······	Column: MS
Level ID	File ID	Level ID File ID
Α	J:\MS04\DATA\101007\1010F004.D	F J:\MS04\DATA\101007\1010F010.D
В	J:\MS04\DATA\101007\1010F005.D	G J:\MS04\DATA\101007\1010F011.D
С	J:\MS04\DATA\101007\1010F006.D	H J:\MS04\DATA\101007\1010F012.D
D	J:\MS04\DATA\101007\1010F007.D	I J:\MS04\DATA\101007\1010F013.D
Е	J:\MS04\DATA\101007\1010F009.D	J J:\MS04\DATA\101007\1010F017.D

Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
Dichlorodifluoromethane				В	0.20	0.285	C	0.50	0.317	D	1.0	0.328	Е	5.0	0.302
	F	10	0.309	G	20	0.337	Н	40	0.312	I	60	0.312	J	2.0	0.160
[†] Chloromethane				В	0.20	0.453	С	0.50	0.422	D	1.0	0.400	E	5.0	0.364
	F	10	0.371	G	20	0.397	Н	40	0.392	Ι	60	0.393	J	2.0	0.272
[‡] Vinyl Chloride	Α	0.10	0.276	В	0.20	0.290	C	0.50	0.353	D	1.0	0.349	E	5.0	0.335
	F	10	0.338	G	20	0.365	Н	40	0.352	Ι	60	0.354	J	2.0	0.193
Bromomethane							C	0.50	0.233	D	1.0	0.208	Е	5.0	0.207
	F	10	0.224	G	20	0.258	Н	40	0.261	Ι	60	0.272	J	2.0	0.156
Chloroethane				В	0.20	0.263	С	0.50	0.268	D	1.0	0.256	Е	5.0	0.244
	F	10	0.241	G	20	0.250	Н	40	0.238	Ι	60	0.235	J	2.0	0.161
Trichlorofluoromethane				В	0.20	0.350	С	0.50	0.394	D	1.0	0.398	Е	5.0	0.374
	F	10	0.373	G	20	0.395	Н	40	0.373	Ι	60	0.369	J	2.0	0.191
Acetone	Α	4.0	0.0283	В	10	0.0264	С	20	0.0287	D	40	0.0259	Е	100	0.0233
	F	200	0.0260	G	400	0.0251	Н	800	0.0250	Ι	1600	0.0250	J	80	0.0258
[‡] 1,1-Dichloroethene				В	0.20	0.247	С	0.50	0.265	D	1.0	0.258	Е	5.0	0.249
	F	10	0.253	G	20	0.270	Н	40	0.260	I	60	0.258	J	2.0	0.144
Carbon Disulfide	Α	0.10	0.883	В	0.20	1.04	C	0.50	1.10	D	1.0	1.09	Е	5.0	1.05
·····	F	10	1.06	G	20	1.13	Н	40	1.09	I	60	1.10	J	2.0	0.634
Methylene Chloride				; ; ;			С	0.50	0.519	D	1.0	0.419	Е	5.0	0.332
	F	10	0.314	G	20	0.312	Н	40	0.296	I	60	0.290	J	2.0	0.316
trans-1,2-Dichloroethene	Α	0.10	0.290	В	0.20	0.330	C	0.50	0.339	D	1.0	0.330	Е	5.0	0.322
	F	10	0.325	G	20	0.339	Η	40	0.325	Ι	60	0.323	J	2.0	0.221
1,1-Dichloroethane	Α	0.10	0.487	В	0.20	0.521	С	0.50	0.523	D	1.0	0.538	Е	5.0	0.516
Bentrementation	F	10	0.510	G	20	0.523	Н	40	0.507	I	60	0.503	J	2.0	0.388
2-Butanone (MEK)	Α	4.0	0.00830	В	10	0.00895	С	20	0.0107	D	40	0.0101	Е	100	0.00919
**************************************	F	200	0.0105	G	400	0.0103	Н	800	0.0106	I	1600	0.0105	J	80	0.0102
2,2-Dichloropropane							С	0.50	0.377	D	1.0	0.370	Е	5.0	0.352
	F	10	0.351	G	20	0.364	Н	40	0.347	Ι	60	0.343	J	2.0	0.219

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID: CAL66 Instrument ID: MS04	סאט		- 141-14									Colur	nn: N	/15	
Analyte Name	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRI
cis-1,2-Dichloroethene	A	0.10	0.302	В	0.20	0.327	C		0.345	D		0.332	Е	5.0	0.33
	F	10	0.329	G	20	0.338	Н	40	0.327	Ι	60	0.325	J	2.0	0.26
Chloroform	A	0.10	0.466	В	0.20	0.486	С	0.50	0.496	D	1.0	0.489	E	5.0	0.47
	F	10	0.473	G	20	0.483	Н	40	0.466	I	60	0.459	J	2.0	0.38
Bromochloromethane		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		В	0.20	0.158	С	0.50	0.155	D	1.0	0.157	Е	5.0	0.15
	F	10	0.155	G	20	0.154	Н	40	0.148	I	60	0.143	J	2.0	0.14
1,1,1-Trichloroethane (TCA)				В	0.20	0.323	С	0.50	0.367	D	1.0	0.370	E	5.0	0.35
	F	10	0.360	G	20	0.373	Н	40	0.360	I	60	0.355	J	2.0	0.21
1,1-Dichloropropene				В	0.20	0.342	C	0.50	0.377	D	1.0	0.375	E	5.0	0.37
	F	· 10	0.384	G	20	0.406	Н	40	0.394	I	60	0.391	J	2.0	0.22
Carbon Tetrachloride				В	0.20	0.262	С		0.321	D	1.0	0.318	Е		0.30
	F	10	0.311	G	20	0.325	Н	40	0.312	Ι	60	0.307	J	2.0	0.17
1,2-Dichloroethane (EDC)	A	0.10	0.236	В	0.20	0.242	С		0.250	D	1.0	0.245	E	5.0	0.24
	F	10	0.238	G	20	0.239	Н	40	0.229	I	60	0.222	J	2.0	0.21
Benzene	A	0.10	1.06	В	0.20	1.08	С	0.50	1.16	D	1.0	1.11	Е	5.0	
	F	10	1.11	G	20	1.16	Н	40	1.14	I	60	1.15	J	2.0	0.82
Trichloroethene (TCE)				В	0.20	0.269	С	0.50	0.292	D		0.282	E	5.0	0.27
	F	10	0.284	G	20	0.297	Н	40	0.288	I	60	0.284	J	2.0	
1,2-Dichloropropane				В		0.278	С		0.272	D		0.259	E		0.26
	F	10	0.260	G	20	0.270	Н	40	0.263	I	60	0.262	J	2.0	0.22
Bromodichloromethane				В		0.311	С		0.301	D	•••••	0.298	E	5.0	
	F		0.301	G	20	0.307	Н	40	0.301	Ι	60	0.297	J	2.0	0.25
Dibromomethane				В	0.20	0.136	С	0.50	0.139	D	1.0	0.134	Е	5.0	0.13
	F	10	0.133	G	20	0.134	Н	40	0.130	I	60	0.128	J	2.0	0.12
2-Hexanone	Α		0.0112	В		0.0106	С		0.0124	D		0.0125	Е		0.012
	F	200	0.0139	G	400	0.0140	Н	800	0.0145	I	1600	0.0143	J	80	0.01
cis-1,3-Dichloropropene	A		0.328	В		0.332	С	· · · · · · · · · · · · · · · · · · ·	0.341	D		0.334	E		0.35
	F		0.357	G		0.375	Н	40	0.373	Ι		0.372	J	2.0	0.31
Toluene				В		0.643	C	0.50	0.678	D		0.662	E		0.66
	F	10	0.674	G	~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.704	Н	40	0.690	I		0.680	J	2.0	
trans-1,3-Dichloropropene	A		0.325	B		0.319	C	0.50	0.350	D		0.341	Е	5.0	0.36
	F		0.372	G		0.385	Н	40	0.387	I		0.393	J	2.0	0.32
1,1,2-Trichloroethane	A	ded.	0.183	 B		0.181	C		0.198	D		0.188	E		0.19
-,-,- *********************************	F		0.188	G		0.194	H	40	0.191	I		0.192	J		0.17

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

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QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 **Calibration Date:** 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID: Instrument ID:	CAL6696 MS04												Colu	nn: N	1S	
Analyte Name		Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF	Level ID	Amt	RRF
4-Methyl-2-pentanone (N	MIBK)	Α	4.0	0.0112	В	10	0.0118	C	20	0.0130	D	40	0.0135	Е	100	0.0124
		F	200	0.0144	G	400	0.0143	Н	800	0.0149	I	1600	0.0146	J	80	0.0140
1,3-Dichloropropane					В	0.20	0.411	С	0.50	0.408	D	1.0	0.403	Е	5.0	0.403
		F	10	0.405	G	20	0.411	Н	40	0.408	I	60	0.409	J	2.0	0.385
Tetrachloroethene (PC	E)				В	0.20	0.365	C	0.50	0.381	D	1.0	0.369	Е	5.0	0.359
		F	10	0.362	G	20	0.388	Н	40	0.373	Ι	60	0.373	J	2.0	0.237
Dibromochloromethar	ne				В	0.20	0.288	C	0.50	0.304	D	1.0	0.290	Е	5.0	0.298
		F	10	0.301	G	20	0.312	Н	40	0.313	I	60	0.315	J	2.0	0.274
1,2-Dibromoethane (E	DB)				В	0.20	0.228	С	0.50	0.247	D	1.0	0.231	Е	5.0	0.239
		F	10	0.239	G	20	0.243	Н	40	0.243	I	60	0.243	J	2.0	0.223
Chlorobenzene		A	0.10	0.989	В	0.20	1.05	С	0.50	1.11	D	1.0	1.07	E	5.0	1.07
		F	10	1.06	G	20	1.11	Н	40	1.10	I	60	1.11	J	2.0	0.897
1,1,1,2-Tetrachloroeth	ane	A	0.10	0.310	В	0.20	0.347	С	0.50	0.350	D	1.0	0.340	Е	5.0	0.354
		F	10	0.350	G	20	0.364	Н	40	0.357	I	60	0.357	J	2.0	0.296
Ethylbenzene					В	0.20	0.461	C	0.50	0.517	D	1.0	0.520	Е	5.0	0.533
		F	10	0.545	G	20	0.580	Н	40	0.571	I	60	0.572	J	2.0	0.392
m,p-Xylenes					В	0.40	0.580	С	1.0	0.651	D	2.0	0.653	Е	10	0.675
		F	20	0.690	G	40	0.736	Н	80	0.726	Ι	120	0.735	J	4.0	0.507
o-Xylene		A	0.10	0.491	В	0.20	0.557	С	0.50	0.609	D	1.0	0.608	E	5.0	0.639
		F	10	0.656	G	20	0.687	Н	40	0.676	Ι	60	0.673	J	2.0	0.508
Styrene					В	0.20	0.814	С	0.50	0.913	D	1.0	0.909	Е	5.0	1.02
		F	10	1.06	G	20	1.12	Н	40	1.13	I	60	1.14	J	2.0	0.829
Bromoform								C	0.50	0.143	D	1.0	0.141	Е	5.0	0.152
		F	10	0.151	G	20	0.159	Н	40	0.159	Ι	60	0.160	J	2.0	0.138
Isopropylbenzene								С	0.50	1.50	D	1.0	1.52	Е	5.0	1.60
		F		1.66	G		1.80	Н	40	1.79	Ι	60	1.70	J	2.0	1.13
1,1,2,2-Tetrachloroeth	ane							С	0.50	0.470	D	1.0	0.460	Е		0.459
		F	10	0.448	G	20	0.455	Н	40	0.453	I	60	0.459	J	2.0	0.449
1,2,3-Trichloropropan	e							С		0.124	D		0.123	Е		0.130
		F	10	0.125	G	20	0.127	Н		0.126	I		0.126	J		0.119
Bromobenzene		A		0.737	В		0.897	С	*****	0.912	D		0.890	Е		0.919
		F		0.898	G		0.928	Н		0.913	I		0.927	J	2.0	0.808
n-Propylbenzene					В	0.20	3.45	C	0.50		D	1.0	3.81	Е	5.0	3.99
-F2		F	10	4.08	G	20	4.42	Н	40	4.42	I	60	3.88	J	2.0	2.82

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

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‡ CCC Compound

QA/QC Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Calibration ID:CAlInstrument ID:MS	L6696 04											Colur	nn: N	ЛS	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Analyte Name			RRF		Amt	RRF		Amt	RRF		Amt	RRF			RRF
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	2-Chlorotoluene	Α	0.10	2.31	В	0.20	2.35	C	0.50	2.65	D	1.0	2.49	Е	5.0	2.55
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		F	10	2.56	G	20	2.71	Н	40	2.66	I	60	2.72	J	2.0	2.02
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4-Chlorotoluene	Α	0.10	1.99	В	0.20	2.38	C	0.50	2.36	D	1.0	2.33	Е	5.0	2.34
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	2.32	G	20	2.47	Н	40	2.45	I	60	2.51	J	2.0	1.90
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1,3,5-Trimethylbenzene				4 6 8			C	0.50	2.52	D	1.0	2.48	Е	5.0	2.62
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	2.63	G	20	2.84	Н	40	2.84	Ι	60	2.89	J	2.0	1.94
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	tert-Butylbenzene				e 1			C	0.50	0.624	D	1.0	0.628	Е	5.0	0.640
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	0.657	G	20	0.709	Н	40	0.691	I	60	0.699	J	2.0	0.457
sec-Butylbenzene F 10 3.44 G 20 3.74 H 40 3.72 I 60 3.59 J 2.0 2.0 1,3-Dichlorobenzene A 0.10 1.53 B 0.20 1.64 C 0.50 1.72 D 1.0 1.65 E 5.0 1.77 F 10 1.68 G 20 1.76 H 40 1.72 I 60 1.75 J 2.0 1.4 4-Isopropyltoluene F 10 1.68 G 20 1.76 H 40 1.72 I 60 1.75 J 2.0 1.4 4-Isopropyltoluene F 10 3.00 G 20 3.28 H 40 3.26 I 60 3.25 J 2.0 1.0 1.4-Dichlorobenzene A 0.10 1.71 B 0.20 1.80 C 0.50 3.3 D 1.0 1.72 E 5.0 1.71 n-Butylbenzene F 10	1,2,4-Trimethylbenzene				В	0.20	2.30	C	0.50	2.39	D	1.0	2.41	Е	5.0	2.59
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	2.61	G	20	2.81	Н	40	2.79	I	60	2.84	J	2.0	2.01
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	sec-Butylbenzene				† 			C	0.50	3.26	D	1.0	3.25	Е	5.0	3.33
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	3.44	G	20	3.74	Н	40	3.72	I	60	3.59	J	2.0	2.26
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1,3-Dichlorobenzene	Α	0.10	1.53	В	0.20	1.64	C	0.50	1.72	D	1.0	1.65	Е	5.0	1.70
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	1.68	G	20	1.76	Н	40	1.72	I	60	1.75	J	2.0	1.45
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4-Isopropyltoluene										D	1.0		Е		2.94
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		F	10	3.00	G	20	3.28	Н	40	3.26	I	60	3.25	J	2.0	2.02
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1,4-Dichlorobenzene	A			В	0.20		C	0.50					Е		1.71
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			10	1.69	G	20	1.74	H	40	1.70	I	60		J	2.0	1.53
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	n-Butylbenzene											1.0				2.49
1,2-DichlorobenzeneA0.101.31B0.201.42C0.501.41D1.01.36E5.01.42F101.40G201.45H401.42I601.44J2.01.271,2-Dibromo-3-chloropropaneF100.0704G200.0700H400.0725I600.144J2.00.666F100.0704G200.0700H400.0725I600.0735J2.00.666I,2,4-TrichlorobenzeneB0.200.587C0.500.636D1.00.635E5.00.669F100.702G200.735H400.729I600.738J2.00.6351,2,3-TrichlorobenzeneF100.468G200.397C0.500.416D1.00.414E5.00.45H100.468G200.397C0.500.416D1.00.414E5.00.45H100.468G200.397C0.500.416D1.00.414E5.00.45H400.488I600.494J2.00.44J2.00.44NaphthaleneC0.500.500.562D1.00.327E </td <td>2</td> <td>F</td> <td>10</td> <td>2.58</td> <td>G</td> <td>20</td> <td>2.81</td> <td>Н</td> <td></td> <td>2.78</td> <td>I</td> <td>60</td> <td></td> <td>J</td> <td>2.0</td> <td>1.66</td>	2	F	10	2.58	G	20	2.81	Н		2.78	I	60		J	2.0	1.66
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1,2-Dichlorobenzene	A	0.10											Е		1.43
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,		10	1.40	G	20		Н			I			J		1.27
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1,2-Dibromo-3-chloropropane				1 1 1			}			A			à		
1,2,4-TrichlorobenzeneB 0.20 0.587 C 0.50 0.636 D 1.0 0.635 E 5.0 0.69 F10 0.702 G 20 0.735 H 40 0.729 I 60 0.738 J 2.0 0.635 1,2,3-TrichlorobenzeneB 0.20 0.397 C 0.50 0.416 D 1.0 0.414 E 5.0 0.45 F10 0.468 G 20 0.397 C 0.50 0.416 D 1.0 0.414 E 5.0 0.45 NaphthaleneF10 0.468 G 20 0.886 H 40 0.488 I 60 0.919 J 2.0 0.44 NaphthaleneF10 0.804 G 20 0.866 H 40 0.886 I 60 0.919 J 2.0 0.74 HexachlorobutadieneB 0.20 0.320 C 0.50 0.328 D 1.0 0.327 E 5.0 0.32 F10 0.330 G 20 0.354 H 40 0.344 I 60 0.348 J 2.0 0.23 1,3,5-TrichlorobenzeneA 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01		F	10	0.0704	G	20	0.0700	Н	40	0.0725	I			J	2.0	0.0645
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2.4-Trichlorobenzene										D			Е	5.0	0.691
1,2,3-TrichlorobenzeneB 0.20 0.397 C 0.50 0.416 D 1.0 0.414 E 5.0 0.45 F10 0.468 G20 0.489 H40 0.488 I 60 0.494 J 2.0 0.44 NaphthaleneF10 0.804 G20 0.866 H 40 0.886 I 60 0.919 J 2.0 0.74 HexachlorobutadieneB 0.20 0.320 C 0.50 0.328 D 1.0 0.327 E 5.0 0.32 F10 0.330 G 20 0.354 H 40 0.344 I 60 0.348 J 2.0 0.23 1,3,5-TrichlorobenzeneA 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01	,,,	 F		0.702	G			н	40	0.729	I			J		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.2.3-Trichlorobenzene															
Naphthalene C 0.50 0.662 D 1.0 0.682 E 5.0 0.78 F 10 0.804 G 20 0.866 H 40 0.886 I 60 0.919 J 2.0 0.74 Hexachlorobutadiene B 0.20 0.320 C 0.50 0.328 D 1.0 0.327 E 5.0 0.32 F 10 0.330 G 20 0.354 H 40 0.344 I 60 0.348 J 2.0 0.23 1,3,5-Trichlorobenzene A 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01	, , · · · · · · · · · · · · · · · · · ·	F	10	0.468	1			j								
F 10 0.804 G 20 0.866 H 40 0.886 I 60 0.919 J 2.0 0.74 Hexachlorobutadiene B 0.20 0.320 C 0.50 0.328 D 1.0 0.327 E 5.0 0.32 F 10 0.330 G 20 0.354 H 40 0.344 I 60 0.348 J 2.0 0.23 1,3,5-Trichlorobenzene A 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01	Naphthalene	-												<u>t</u>		
HexachlorobutadieneB 0.20 0.320 C 0.50 0.328 D 1.0 0.327 E 5.0 0.32 F10 0.330 G20 0.354 H40 0.344 I 60 0.348 J 2.0 0.23 1,3,5-TrichlorobenzeneA 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01	▲ · · · · · · ·	 F	10	0.804	G	20	0.866	4			*******					
F 10 0.330 G 20 0.354 H 40 0.344 I 60 0.348 J 2.0 0.23 1,3,5-Trichlorobenzene A 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01	Hexachlorobutadiene	*							*							
1,3,5-Trichlorobenzene A 0.10 0.793 B 0.20 0.887 C 0.50 0.970 D 1.0 0.937 E 5.0 1.01		F	10	0.330												
	1.3.5-Trichlorobenzene								· · · · · ·							
	-,-,- ,	F			G			H			I	*******		J		

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Initial Calibration Summary Volatile Organic Compounds

Calibration ID: Instrument ID:	CAL6696 MS04								¢				Colu	mn: N	⁄IS	
Analyte Name		Level ID	Amt	RRF												
Dibromofluorometha	ane				В	4.0	0.280	C	5.0	0.244	D	6.0	0.258	Е	8.0	0.251
		F	10	0.236	G	20	0.275	Н	40	0.273	Ι	50	0.262	J	7.0	0.284
Toluene-d8					В	4.0	0.740	C	5.0	0.606	D	6.0	0.679	Е	8.0	0.676
		F	10	0.613	G	20	0.810	Н	40	0.835	I	50	0.792	J	7.0	0.846
4-Bromofluorobenze	ene				В	4.0	0.395	С	5.0	0.352	D	6.0	0.399	Е	8.0	0.372
-		F	10	0.364	G	20	0.424	Н	40	0.425	I	50	0.415	J	7.0	0.430

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

‡ CCC Compound

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QA/QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric **Service Request:** K0802796 **Calibration Date:** 10/10/2007

Column: MS

Initial Calibration Summary Volatile Organic Compounds

Calibration ID:	CAL6696
Instrument ID:	MS04

			Calibratio		KKF	Evalu	ation		
	Compound			Eval.		Control	Average		Minimum
Analyte Name	Туре	Fit Type	Eval.	Result	Q	Criteria	RRF	Q	RRF
Dichlorodifluoromethane	TRG	AverageRF	% RSD	17.9	*	≤15	0.296		0.01
[†] Chloromethane	TRG	AverageRF	% RSD	13.0		≤15	0.385		0.10
[‡] Vinyl Chloride	TRG	AverageRF	% RSD	16.6	*	≤15	0.321		0.01
Bromomethane	TRG	AverageRF	% RSD	16.5	*	≤15	0.227		0.01
Chloroethane	TRG	AverageRF	% RSD	13.1		≤ 15	0.239		0.01
Trichlorofluoromethane	TRG	AverageRF	% RSD	17.9	*	≤15	0.357		0.01
Acetone	TRG	AverageRF	% RSD	6.2		≤15	0.0259		0.01
[‡] 1,1-Dichloroethene	MS	AverageRF	% RSD	15.7	*	≤ 15	0.245		0.01
Carbon Disulfide	TRG	AverageRF	% RSD	14.8		≤ 15	1.02		0.01
Methylene Chloride	TRG	AverageRF	% RSD	22.7	*	≤15	0.350		0.01
trans-1,2-Dichloroethene	TRG	AverageRF	% RSD	11.3		≤ 15	0.314		0.01
† 1,1-Dichloroethane	TRG	AverageRF	% RSD	8.4		≤15	0.502		0.10
2-Butanone (MEK)	TRG	AverageRF	% RSD	8.2		≤15	0.00993	*	0.01
2,2-Dichloropropane	TRG	AverageRF	% RSD	14.8		≤15	0.341		0.01
cis-1,2-Dichloroethene	TRG	AverageRF	% RSD	6.9		≤15	0.323		0.01
[‡] Chloroform	TRG	AverageRF	% RSD	7.0		≤15	0.467		0.01
Bromochloromethane	TRG	AverageRF	% RSD	4.1		≤15	0.152		0.01
1,1,1-Trichloroethane (TCA)	TRG	AverageRF	% RSD	14.4		≤15	0.342		0.01
1,1-Dichloropropene	TRG	AverageRF	% RSD	15.3	*	≤15	0.363		0.01
Carbon Tetrachloride	TRG	AverageRF	% RSD	16.8	*	≤15	0.292		0.01
1,2-Dichloroethane (EDC)	TRG	AverageRF	% RSD	4.3		≤15	0.236		0.01
Benzene	MS	AverageRF	% RSD	9.0		≤15	1.09		0.01
Trichloroethene (TCE)	MS	AverageRF	% RSD	11.4		≤15	0.274		0.01
‡ 1,2-Dichloropropane	TRG	AverageRF	% RSD	5.6		≤15	0.262		0.01
Bromodichloromethane	TRG	AverageRF	% RSD	5.4		≤15	0.297		0.01
Dibromomethane	TRG	AverageRF	% RSD	3.5		≤15	0.132		0.01
2-Hexanone	TRG	AverageRF	% RSD	10.4		≤15	0.0129		0.01
cis-1,3-Dichloropropene	TRG	AverageRF	% RSD	6.3		≤15	0.348		0.01
[‡] Toluene	MS	AverageRF	% RSD	9.4		≤15	0.655		0.01
trans-1,3-Dichloropropene	TRG	AverageRF	% RSD	7.8		≤15	0.356		0.01
1,1,2-Trichloroethane	TRG	AverageRF	% RSD	3.3		≤15	0.189		0.01
4-Methyl-2-pentanone (MIBK)	TRG	AverageRF	% RSD	9.5		≤15	0.0134		0.01
1,3-Dichloropropane	TRG	AverageRF	% RSD	2.0		≤15	0.405		0.01
Tetrachloroethene (PCE)	TRG	AverageRF	% RSD	12.9		≤15	0.356		0.01
Dibromochloromethane	TRG	AverageRF	% RSD	4.6		≤15	0.299		0.01
1,2-Dibromoethane (EDB)	TRG	AverageRF	% RSD	3.4		≤15	0.237		0.01
† Chlorobenzene	MS	AverageRF	% RSD	6.4		≤15	1.06		0.30
1,1,1,2-Tetrachloroethane	TRG	AverageRF	% RSD	6.4		≤15	0.343		0.01
[‡] Ethylbenzene	TRG	AverageRF	% RSD	11.7		≤15	0.521		0.01
m,p-Xylenes	TRG	AverageRF	% RSD	11.5		≤15	0.662		0.01
o-Xylene	TRG	AverageRF	% RSD	11.5		≤15	0.611		0.01
Styrene	TRG	AverageRF	% RSD	13.1		≤15	0,993		0.01

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

Service Request: K0802796 Calibration Date: 10/10/2007

Column: MS

Initial Calibration Summary Volatile Organic Compounds

Calibration ID:CAL6696Instrument ID:MS04

		Calibration Evaluation RRF Evaluation									
Analyte Name	Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF		
† Bromoform	TRG	AverageRF	% RSD	5.8		≤15	0.150		0.10		
Isopropylbenzene	TRG	AverageRF	% RSD	13.6		≤15	1.59		0.01		
† 1,1,2,2-Tetrachloroethane	TRG	AverageRF	% RSD	1.5		≤15	0.457		0.30		
1,2,3-Trichloropropane	TRG	AverageRF	% RSD	2.5		≤15	0.125		0.01		
Bromobenzene	TRG	AverageRF	% RSD	7.0		≤15	0.883		0.01		
n-Propylbenzene	TRG	AverageRF	% RSD	12.8		≤15	3.86		0.01		
2-Chlorotoluene	TRG	AverageRF	% RSD	8.7		≤15	2.50		0.01		
4-Chlorotoluene	TRG	AverageRF	% RSD	8.7		≤15	2.31		0.01		
1,3,5-Trimethylbenzene	TRG	AverageRF	% RSD	11.8		≤15	2.60		0.01		
tert-Butylbenzene	TRG	AverageRF	% RSD	12.5		≤15	0.638		0.01		
1,2,4-Trimethylbenzene	TRG	AverageRF	% RSD	10.9		≤15	2.53		0.01		
sec-Butylbenzene	TRG	AverageRF	% RSD	14.2		≤15	3.32		0.01		
1,3-Dichlorobenzene	TRG	AverageRF	% RSD	6.1		≤15	1.66		0.01		
4-Isopropyltoluene	TRG	AverageRF	% RSD	14.5		≤15	2.90		0.01		
1,4-Dichlorobenzene	TRG	AverageRF	% RSD	4.3		≤15	1.71		0.01		
n-Butylbenzene	TRG	AverageRF	% RSD	15.9	*	≤15	2.48		0.01		
1,2-Dichlorobenzene	MS	AverageRF	% RSD	4.2		≤15	1.39		0.01		
1,2-Dibromo-3-chloropropane	TRG	AverageRF	% RSD	9.3		≤ 15	0.0675		0.01		
1,2,4-Trichlorobenzene	TRG	AverageRF	% RSD	8.1		≤15	0.676		0.01		
1,2,3-Trichlorobenzene	TRG	AverageRF	% RSD	8.0		≤15	0.452		0.01		
Naphthalene	MS	AverageRF	% RSD	11.9		≤15	0.793		0.01		
Hexachlorobutadiene	TRG	AverageRF	% RSD	10.4		≤15	0.324		0.01		
1,3,5-Trichlorobenzene	TRG	AverageRF	% RSD	9.9		≤15	0.961		0.01		
Dibromofluoromethane	SURR	AverageRF	% RSD	6.4		≤15	0.262		0.01		
Toluene-d8	SURR	Linear	R2	0.996		≥0.990	0.733		0.01		
4-Bromofluorobenzene	SURR	AverageRF	% RSD	7.2		≤15	0.397		0.01		

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: Project:

File ID:

Environmental Chemistry Consulting Servi Kuhlman Electric
 Service Request:
 K0802796

 Calibration Date:
 10/10/2007

 Date Analyzed:
 10/10/2007

Second Source Calibration Verification Volatile Organic Compounds

Calibration Type:Internal StandardAnalysis Method:8260B

Calibration ID: CAL6696 Units: PPB

J:\MS04\DATA\101007\1010F020.D

			Average	SSV				
Analyte Name	Expected	Result	RF	RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	10	7.9	0.296	0.235	-21	NA	± 40 %	AverageRF
[†] Chloromethane	10	8.2	0.385	0.317	-18	NA	$\pm 40 \%$	AverageRF
[‡] Vinyl Chloride	10	8.7	0.321	0.278	-13	NA	± 20 %	AverageRF
Bromomethane	10	8.8	0.227	0.200	-12	NA	± 40 %	AverageRF
Chloroethane	10	8.3	0.239	0.199	-17	NA	$\pm 40 \%$	AverageRF
Trichlorofluoromethane	10	7.3	0.357	0.261	-27	NA	$\pm 30\%$	AverageRF
Acetone	50	47	0.0259	0.0242	-7	NA	\pm 30 %	AverageRF
[‡] 1,1-Dichloroethene	10	8.8	0.245	0.215	-12	NA	± 20 %	AverageRF
Carbon Disulfide	20	15	1.02	0.769	-24	NA	± 30 %	AverageRF
Methylene Chloride	10	8.2	0.350	0.287	-18	NA	± 30 %	AverageRF
trans-1,2-Dichloroethene	10	8.1	0.314	0.254	-19	NA	± 30 %	AverageRF
[†] 1,1-Dichloroethane	10	8.2	0.502	0.411	-18	NA	± 30 %	AverageRF
2-Butanone (MEK)	50	54	0.00993	0.0107	8	NA	$\pm 30 \%$	AverageRF
2,2-Dichloropropane	10	7.9	0.341	0.270	-21	NA	± 30 %	AverageRF
cis-1,2-Dichloroethene	10	8.8	0.323	0.283	-12	NA	± 30 %	AverageRF
[‡] Chloroform	10	8.1	0.467	0.380	-19	NA	± 20 %	AverageRF
Bromochloromethane	10	8.8	0.152	0.134	-12	NA	$\pm 30 \%$	AverageRF
1,1,1-Trichloroethane (TCA)	10	7.9	0.342	0.271	-21	NA	± 30 %	AverageRF
1,1-Dichloropropene	10	7.8	0.363	0.284	-22	NA	± 30 %	AverageRF
Carbon Tetrachloride	10	7.9	0.292	0.232	-21	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	10	8.7	0.236	0.204	-14	NA	$\pm 30 \%$	AverageRF
Benzene	10	8.2	1.09	0.898	-18	NA	± 30 %	AverageRF
Trichloroethene (TCE)	10	8.1	0.274	0.223	-19	NA	$\pm 30 \%$	AverageRF
[‡] 1,2-Dichloropropane	10	8.5	0.262	0.221	-16	NA	± 20 %	AverageRF
Bromodichloromethane	10	8.8	0.297	0.262	-12	NA	± 30 %	AverageRF
Dibromomethane	10	9.0	0.132	0.119	-10	NA	$\pm 30 \%$	AverageRF
2-Hexanone	50	53	0.0129	0.0135	5	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	10	9.0	0.348	0.313	-10	NA	± 30 %	AverageRF
[‡] Toluene	10	8.2	0.655	0.537	-18	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	10	8.9	0.356	0.316	-11	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	10	9.3	0.189	0.175	-7	NA	$\pm 30 \%$	AverageRF
4-Methyl-2-pentanone (MIBK)	50	51	0.0134	0.0137	2	NA	\pm 30 %	AverageRF
1,3-Dichloropropane	10	9.1	0.405	0.369	-9	NA	± 30 %	AverageRF
Tetrachloroethene (PCE)	10	7.8	0.356	0.278	-22	NA	$\pm 30 \%$	AverageRF
Dibromochloromethane	10	9.1	0.299	0.273	-9	NA	± 30 %	AverageRF
1,2-Dibromoethane (EDB)	10	9.1	0.237	0.217	-9	NA	± 30 %	AverageRF
[†] Chlorobenzene	10	8.4	1.06	0.889	-16	NA	\pm 30 %	AverageRF
1,1,1,2-Tetrachloroethane	10	8.6	0.343	0.296	-14	NA	\pm 30 %	AverageRF
[‡] Ethylbenzene	10	8.4	0.521	0.435	-16	NA	± 20 %	AverageRF
m,p-Xylenes	20	17	0.662	0.560	-15	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

 Service Request:
 K0802796

 Calibration Date:
 10/10/2007

 Date Analyzed:
 10/10/2007

CAL6696 PPB

Second Source Calibration Verification Volatile Organic Compounds

Calibration Type: Analysis Method:	Internal Standard 8260B		N - {	din t		Calibr	ation ID: Units:
Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria

Analyte Name	Expected	Result	RF	RF	%D	%Drift	Criteria	Curve Fit
o-Xylene	10	8.9	0.611	0.541	-11	NA	± 30 %	AverageRF
Styrene	10	9.2	0.993	0.909	-8	NA	\pm 30 %	AverageRF
† Bromoform	10	9.5	0.150	0.143	-5	NA	± 30 %	AverageRF
Isopropylbenzene	10	7.5	1.59	1.19	-25	NA	\pm 30 %	AverageRF
† 1,1,2,2-Tetrachloroethane	10	9.5	0.457	0.433	-5	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	10	9.8	0.125	0.123	-2	NA	± 30 %	AverageRF
Bromobenzene	10	8.9	0.883	0.781	-11	NA	± 30 %	AverageRF
n-Propylbenzene	10	8.7	3.86	3.34	-13	NA	± 30 %	AverageRF
2-Chlorotoluene	10	8.6	2.50	2.15	-14	NA	± 30 %	AverageRF
4-Chlorotoluene	10	8.5	2.31	1.96	-15	NA	± 30 %	AverageRF
1,3,5-Trimethylbenzene	10	8.4	2.60	2.18	-16	NA	\pm 30 %	AverageRF
tert-Butylbenzene	10	8.5	0.638	0.543	-15	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	10	8.8	2.53	2.23	-12	NA	± 30 %	AverageRF
sec-Butylbenzene	10	9.1	3.32	3.01	-10	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	10	8.7	1.66	1.44	-13	NA	± 30 %	AverageRF
4-Isopropyltoluene	10	8.3	2.90	2.41	-17	NA	± 30 %	AverageRF
1,4-Dichlorobenzene	10	8.5	1.71	1.46	-15	NA	\pm 30 %	AverageRF
n-Butylbenzene	10	8.6	2.48	2.14	-14	NA	$\pm 30 \%$	AverageRF
1,2-Dichlorobenzene	10	8.9	1.39	1.24	-11	NA	\pm 30 %	AverageRF
1,2-Dibromo-3-chloropropane	10	9.8	0.0675	0.0665	-2	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	10	9.6	0.676	0.647	-4	NA	$\pm 30 \%$	AverageRF
1,2,3-Trichlorobenzene	10	10	0.452	0.452	0	NA	± 30 %	AverageRF
Naphthalene	10	10	0.793	0,792	0	NA	\pm 30 %	AverageRF
Hexachlorobutadiene	10	9.3	0.324	0.301	-7	NA	$\pm 30 \%$	AverageRF
1,3,5-Trichlorobenzene	40	43	0.961	1.03	7	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

DATE:_	10.10.07		VOA DAI	LY ANALY GCMS 597	UNL SERVIC	CAL	Date: 10.10 6696	
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Stock S	olution #5.	Stock Solution #5 <u>41v0A38</u> Analytes: Low Ketones	Analytes	Low Kett	ones	Init. Con	centration	Init. Concentration: 200ppm			
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Stock		Stark	Final	Aliquot of	Final	Aliquot of		Einal Aliquot of			
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#1 (pL)	#1 (hg/L)		(hg/L)	#3 (nL)			#4 (µg/L)			(ml.)	Notes
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8260 ICV:	10ul of 50/2	8260 ICV: 10ul of 50/250mm Accurded ICV (1220/1000)									

INTIAL CALIBRATION CURVE

Ohrag O_{Q} Date /0 Prepared By

Analysis:<u>8260</u> Instrument: <u>MS04</u> Matrix: <u>Water</u>

Stock Solution #1 <u>471/v0433F</u> Analytes: <u>Surrogates</u> Stock Solution #2<u>47v/v434</u>D_Analytes: <u>Low 8260</u> Stock Solution #3<u>47v/v4346</u> Analytes: <u>Retones</u> Stock Solution #5<u>471/v0436</u> Analytes: <u>Low Ketones</u>

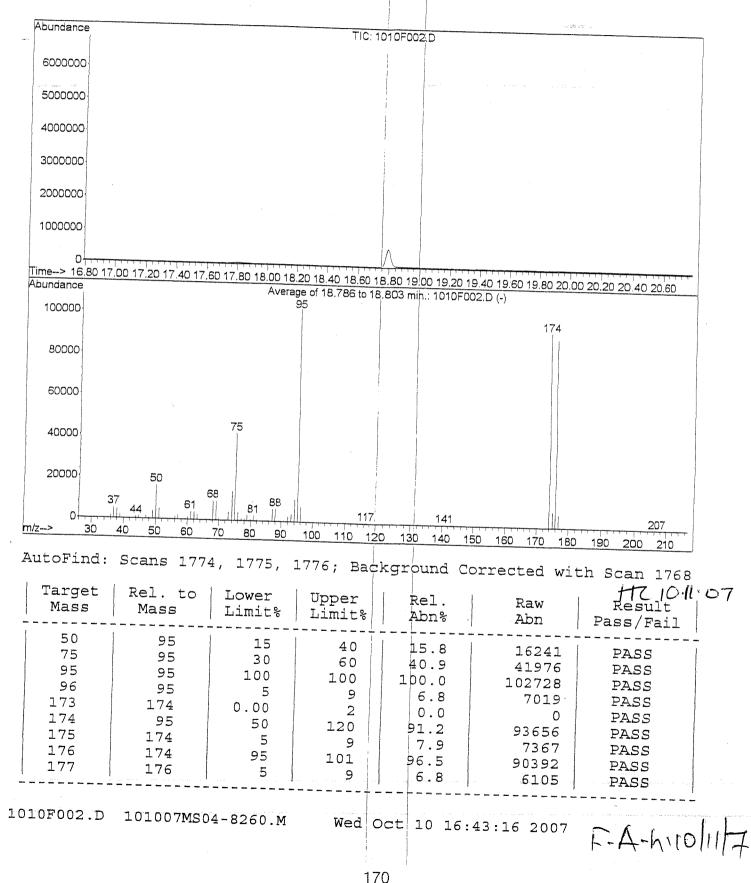
Init. Concentration: <u>5/10/20/100/200ppm</u> Init. Concentration: <u>50/100/200/1000/2000ppm</u> Init. Concentration: <u>2000ppm</u>

Init. Concentration: 200ppm

L of 50/250ppm Accustd ICV (サイレゆんり) + 50uL of 100ppm Acrolein (サイレの3イビ) + 2.5uL of 200ppm Surrogates (サイルのス3方) +) + 5uL of 200ppm n-Octane/TBF/Tetrahydrafuran (μ) λ 0A 3 μ E) + 5uL of 200/1000ppm Oxygenate (4700 Jy D) to 50 ml. 5uL of 100ppm Dichlorofluoromethane ($4\gamma v \varrho A \, \beta_l \, \beta_l$ 7.5uL of 200/2000ppm Appendix ICV (ዛግላወል 2%p

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red ou	: J:\MS04\DATA\101007\1010F0D2.D : 10 Oct 2007 10:42 am : 50NG BFB :		Vial: 2 Operator: HC Inst : MS04
MS Integra	tion Params: RTEINT.P		Multiplr: 1.00
Method	J:\MS04\METHODS\101007MS04-B260.M VOA MS04 EPA Method 8260B/624	(RTE	Integrator)



RF.R |

probenzene probenzene-d5 Dichlorobenzene-d4 nitoring Compounds omofluoromethane Amount 10.000 Dichloroethane-d4 Amount 10.000 ene-d8 Amount 10.000 omofluorobenzene Amount 10.000 mpounds lorodifluoromethane l Chloride	01007MS od 8260 47 2007 on R.T. 13.19 17.45 20.09 0.00 -15.52 0.00 -15.52 0.00 -4.83 5.58	04-824 04-824 0-1672 113 0-1672 113 0-1672 113 0-1672 113 0-1672 113 0-1672 113 0-1672	Ir Mu Quant Result 260.M (RTE I 260.M (RTE I 260.M (RTE I 2693351 1167909 541631 0 Recove: 0 Recove: 0 Recove: 0 Recove: 3531 4680	Integrator) $HC /O \cdot IO$ $F \cdot A \cdot A \cdot IO$ Conc Units 10.00 PPB 10.00 PPB 10.00 PPB 10.00 PPB 10.00 PPB 0.00 PPB ry = 0 0.02 PPB ry = 0 0.02 PPB ry = 0 0.00 PPB ry = 0 0.02 PPB ry = 0 0.00 PPB	04 00 .007MS04-8260 .007 111 Dev (Min) 0 01 0 00 0 01 .00% .00% .00% .00% .00% .00% .00% .0
<pre>2) trans-1,2-Dichloroethene 3) Hexane 4) 1,1-Dichloroethane 5) Acrylonitrile 7) Diisopropyl Ether 8) Chloroprene 9) tert-Butyl Ethyl Ether 9) 2,2-Dichloropropane 9) cis-1,2-Dichloroethene 9) 2-Butanone 9) Chloroform 9) 1,1,1-Trichloroethane 9) 1,1-Dichloropropene 9) Benzene 9) 1,2 Dichloropropene</pre>	8.13 8.20 8.62 7.93 9.00 9.42 9.48 9.90 10.23 9.43 10.21 10.39 10.88 11.29 11.28 11.25 11.79 12.17 12.43 12.79 12.80	0059475879565485797897582 11947587956548579789756 	3379 8449 4432 2721 3328 19184 14946 7301 19780 12870 4908 5489 8249 2784 15293 10323 8768 5607 5121 5624 7887 4509 4946 18004 3989	0.08 PPB 0.09 PPB 0.07 PPB 0.07 PPB 0.08 PPB 4.36 PPB 0.08 PPB 2.09 PPB 0.37 PPB 0.19 PPB 0.19 PPB 0.09 PPB 0.09 PPB 0.10 PPB 0.27 PPB 0.27 PPB 0.27 PPB 0.27 PPB 0.09 PPB 0.09 PPB 3.16 PPB 0.07 PPB 0.07 PPB 0.08 PPB 0.08 PPB 0.10 PPB 0.10 PPB 0.10 PPB	72 95 87 94 84 96 84 93 93 95 80 87 80 87 80 87 80 87 80 87 80 87 80 87 80 87 90 88 90 85 84 99 97 85 94 94 77

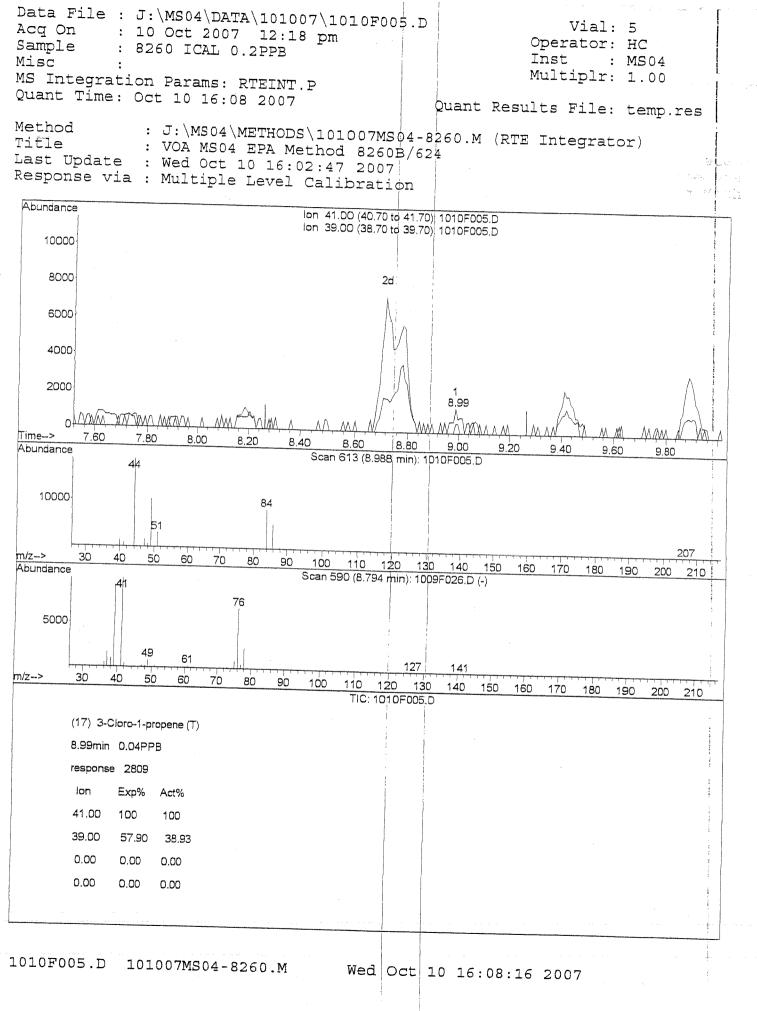
Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 11:46 at Sample : 8260 ICAL 0.1PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:33 2007 Quant Method : J:\MS04\METHODS\10 Title : VOA MS04 EPA Metho Last Update : Wed Oct 10 16:02:4 Response via : Initial Calibratic DataAcq Meth : 8260	m 01007MS 0d 8260	Q 04-82 B/624	In Mu uant Result		
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
<pre>67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1,3-Dichloropropane 72) 1,2-Dibromoethane (EDB) 74) Chlorobenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane 77) m,p-Xylenes 78) o-Xylene 79) Styrene 81) Isopropylbenzene 86) Bromobenzene 87) n-Propylbenzene 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 100) 1,2-Dichlorobenzene</pre>	13.76 14.12 14.48 15.12 15.62 15.63 15.63 15.63 15.88 16.15 16.37 16.41 16.39 16.91 17.48 17.56 17.56 17.56 17.56 17.56 17.50 18.19 18.20 18.20 18.58 19.01 19.03 19.18 19.03 19.18 19.58 19.63 19.58 19.56 20.56	15835025534767261664561151455966166 198786570103000059909300144948 1011111111111111111111111111111111111	3504 4305 4568 5557 7597 8742 2326 3794 2135 3662 5254 4473 2433 11548 3899 3626 11282 5740 8297 13440 3994 15673 12503 10413 10802 2103 10629 12243 10629 12243 10629 12243 10629 12243 11403 8266 9241 8551 7121 4293	0.07 PPB 0.10 PPB 0.09 PPB 0.09 PPB 3.11 PPB 0.08 PPB 0.08 PPB 0.09 PPB 0.09 PPB 0.09 PPB 0.09 PPB 0.09 PPB 0.09 PPB 0.09 PPB 0.09 PPB 0.07 PPB 0.08 PPB 0.07 PPB 0.08 PPB 0.08 PPB 0.09 PPB	- 92 95 81 94 68 98 850 95 91 850 91 87 95 80 95 95 95 80 95 95 80 95 95 80 95 95 95 95 95 95 95 95 95 95 95 95 95
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	172				•

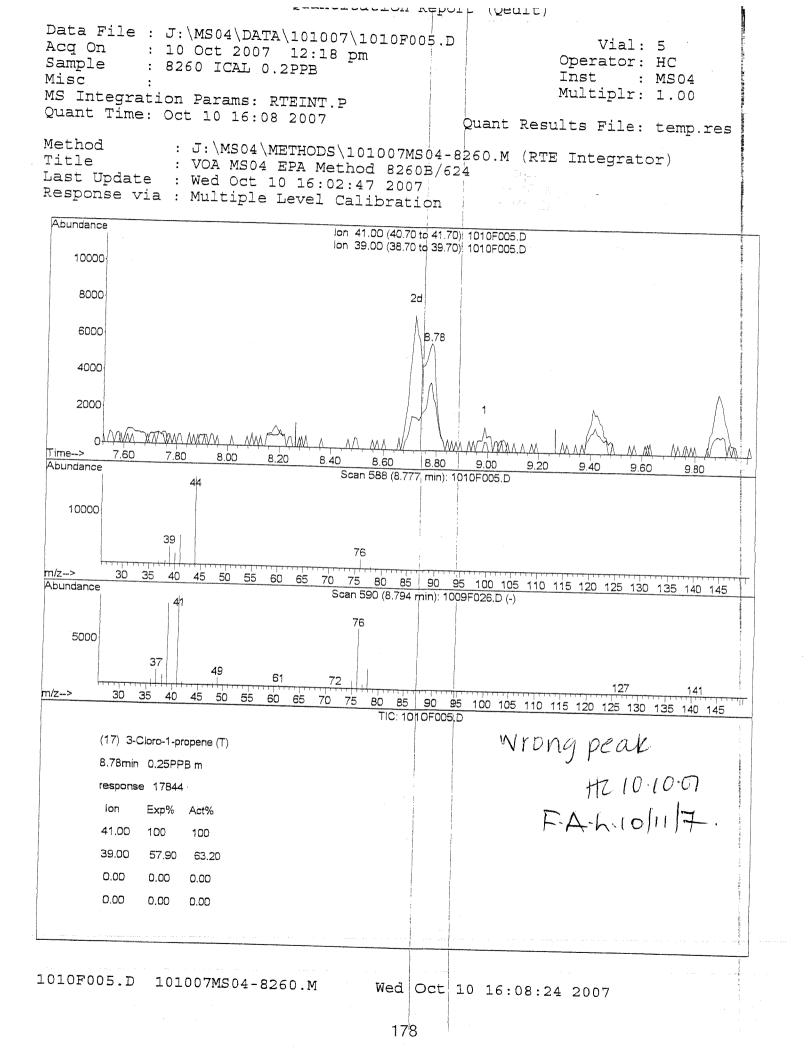
	Samp Misc MS 1	ple c Integ	: 8 : ratio	J:\MS04 10 Oct 3260 IC Dn Para	2007 AL 0.	11:4 1PPB	6 am	10F0	04.	D		Oper Inst	Vial: cator: : : :iplr:	HC MS04	y Mary Sola
	Meth	bod		oct 10				1			Rest	ults	File:	101007	MS04-8
	Last	- Und	ate	· Mod	∩ <u>-</u> + -	· · ·		040	S04 0B/	-8260.M	(RTI	E Int	egrato	or)	
) Z	Resp		via	: Wed : Init	ial C	alibra	ation								
	8000000						TIC	: 1010F	004.D						
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3	000000														
2	500000-									ane-d5,1	ene-d4,1				
2	000000	And the second se					Fluorobenzene, I			Chlorobenzene-d5,1	lorobenz				
1:	500000					i	Fluorot	K),T		6	ete to all formation former. The second of t				
		Dichlorodifluoromethane, T Vinyl Chloride, CT	hane.F	AGEOBIA TOWAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	€,PT ler,T	ne T e T	e,CT ane,T	CFA11/CUICITOROCOPENA IN BIO, T FOURDACE AT FOURDACE AT Trans-1,3-Dickloroptopene, T 1,12-Titchioroptopene, T	2.01800000000000000000000000000000000000	ក្រើប្រវត្តកិច្ចក្រើនក្នុងបាកចងតាដាស់!T ទំព័របុស្មធានក្មេរ sopropylbenzene,T និស្សាស់សំពើតត្រីត្រូកzene,T	ene, T Åðbenzei •, M T	Te,T			
10	00000	Jichlorodifluorame Vinyl Chloride,CT	iane, T NURRINE	rifbutticen isulfide, e Chlorie, toffilitiki 5	<mark>ftie</mark> fhan) Ethyl Eth	n,CT iloroetha roproper	hene,MT opropan lorometh	Plotopropropropropropropropropropropropropro	oethane	nzene, T	Benzlene	robenze			
e	500000-	Dichtoro Vinyl Ch	Chloroethane, T Pichlicröhusromethane, F	AGColletin Tritteensentingna. Tritter State Carbon Disulfide, T Methylene Chloride, T Mettylene Chloride, T	Hexane, T Olisbioplene, Pranë, PT tert-Butyt Ethyl Ether, T 2:2 thertotoffirmexteris	Chloroform,CT Chloroform,CT 1,1-Trichloroethane 1,1-Dichloropropene,1 BenEntelMTethane,T	Trichloroethene,MT 1,2-Dichloropropane,CT Bromodichloromethane,	Nally and States	-Dibrom	ក្រម្លា ប្រស្នាត់តែប្រធ ារភាចនគកដាក ចមស្ មនគ្នេT (sopropybenzene, T វីសិអាល់សាសិត្តាត្រុក Jzene, T	EL TYNREUTTOBALENE, E EDULAN ROUTTOBALENE, F. E. UKARBISTERTENE, MI	1,3,5-Trichlorobenzene,T			
			~		டைய இன்	0 e	14 14 B	Star Et	1,2			13			
Time	e> 4.00	6.(00	8.00 1	0.00	12.00	14.00	16.0	^, D	18.00	20.00	22.00	24.00		
-10	10F004	4.D	10100	7MS04-	8260.	M	Wed	Oct	10	16:19:	-	<u></u>	24.00	<u>26.00</u>	
												- • 1		Page	3
							1	73		i					

Acq On : 10 Oct 2007 12:18 p Sample : 8260 ICAL 0.2PPB Misc : MS Integration Params: RTEINT.P	pm)5.D	Vial: 5 Operator: HC Inst : MSO Multiplr: 1.0	4 .
Quant Time: Oct 10 16:05:36 2007	7		Quant Results File: 1010	007MS04-8260
Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:02: Response via : Initial Calibrati DataAcq Meth : 8260	100 8260.	04-82 B/624		.10.07
Internal Standards	R.T.	QIon	۲۰۵۰ Response Conc Units	√ (D/([- + • Dev(Min)
1) Fluorobenzene 63) Chlorobenzene-d5 83) 1,4-Dichlorobenzene-d4	13 19		1687464 10.00 PPB 1182982 10.00 PPB 551322 10.00 PPB	
System Monitoring Compounds 41) Dibromofluoromethane Spiked Amount 10.000 47) 1,2-Dichloroethane-d4	10.00			
Spiked Amount 10,000	15 52	65	131982 4.62 PPB Recovery = 46.	0.01 20%
61) Toluene-d8 Spiked Amount 10.000 82) 4-Bromofluorobenzene Spiked Amount 10.000	18.80	95	189027 4.76 PPB Recovery = 47. 131982 4.62 PPB Recovery = 46. 499484 4.83 PPB Recovery = 48. 187088 4.34 PPB Recovery = 43.	0.00 30% 0.01
Target Compounds	ř		~	
<pre>2) Dichlorodifluoromethane 3) Chloromethane 4) Vinyl Chloride 5) Bromomethane 6) Chloroethane 7) Dichlorofluoromethane 8) Trichlorofluoromethane 9) Ether 10) Trichlorotrifluoroethane 11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane 14) Carbon Disulfide 15) Acrolein 17) 3-Cloro-1-propene 18) Acetonitrile 19) Methylene Chloride 21) Methyl tert-Butyl Ether 22) trans-1,2-Dichloroethene 23) Hexane 24) 1,1-Dichloroethane 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether 30) 2,2-Dichloropropane 32) cis-1,2-Dichloroethene 33) 2-Butanone</pre>	7.11 7.64 8.09 8.13 8.19 8.47 8.62 7.92 8.78 8.72 9.00 9.42 9.00 9.42 9.49 9.90 10.24 10.22 10.39 10.88 11.29 11.28 11.24	1 5 5 9 4 2 7 5 4 4 8 7 9 5 6 4 8 5 7 9 7 . 1 2 3 4 2 7 5 4 4 8 7 9 5 6 4 8 5 7 9 7 .	11796 0.19 PPB 4605 0.18 PPB 7666 0.19 PPB 8329 0.20 PPB 44566 10.17 PPB 7121 0.25 PPB 35132 0.20 PPB 13043 3.75 PPB 17844m 0.25 PPB 25564 0.48 PPB 26074 0.39 PPB 1137 0.20 PPB 1217 0.20 PPB 126974 0.39 PPB 1217 0.20 PPB 12677 0.20 PPB 17587 0.20 PPB 26919 0.21 PPB 23679 0.61 PPB 1757 0.19 PPB 1035 0.20 PPB 11035 0.20 PPB 15104 8.53 PPB	# 96 99 99 99 99 99 99 99 99 99 99 99 99 9
1010F005.D 101007MS04-8260.M	Wed 0	ict 10	cegration) 16:19:21 2007	Page 1
	 174	1		

Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 12:18 g Sample : 8260 ICAL 0.2PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:36 2007	2m 7		I M Quant Resul	Vial: 5 Derator: HC Inst : MSC Multiplr: 1.0 ts File: 101)4
Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:02: Response via : Initial Calibrati DataAcq Meth : 8260	47 2007	04-82 B/624	260.M (RTE	Integrator)	
Compound	R.T.	QION	Response	Conc Unit	Ovalue
<pre>60) 4-Methyl-2-pentanone (MIBK 62) Toluene 65) n-Octane 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1,3-Dichloropropane 71) Dibromochloromethane 72) 1,2-Dibromoethane (EDB) 73) 1-Chlorohexane 74) Chlorobenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane 77) m,p-Xylenes 78) o-Xylene 79) Styrene 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene</pre>	15.62 15.64 15.87 16.15 16.37 16.41 16.39 16.71 16.90 17.34 17.48 17.56 17.55 17.69 18.18 18.20 18.58 18.65 19.01 19.03 19.18 19.19 19.29 19.58 19.63 	- 7889777558259870987865720510300085990930 1 1 111111111111111111111111111111111	$\begin{array}{r} 5569\\ 5335\\ 16409\\ 2734\\ 10901\\ 8859\\ 11559\\ 4125\\ 36445\\ 8181\\ 9075\\ 9387\\ 4596\\ 10493\\ 11189\\ 19937\\ 21693\\ 5593\\ 7550\\ 4281\\ 8624\\ 12487\\ 9722\\ 6823\\ 5593\\ 7550\\ 4281\\ 8624\\ 12487\\ 9722\\ 6823\\ 5398\\ 6831\\ 24897\\ 10897\\ 8220\\ 27438\\ 13177\\ 19250\\ 32324\\ 2955\\ 9892\\ 37998\\ 25948\\ 24073\\ 26246\\ 5876\\ 25356\end{array}$	0.69 PPB 0.20 PPB 0.21 PPB 0.16 PPB 0.18 PPB 0.18 PPB 0.24 PPB 0.20 PPB 0.20 PPB 0.20 PPB 0.21 PPB 0.21 PPB 0.21 PPB 0.21 PPB 0.21 PPB 0.21 PPB 0.19 PPB 0.19 PPB 0.19 PPB 0.19 PPB 0.19 PPB 0.19 PPB 0.20 PPB 0.20 PPB 0.20 PPB 0.20 PPB 0.19 PPB 0.20 PPB 0.19 PPB 0.20 PPB 0.19 PPB 0.17 PPB 0.20 PPB 0.17 PPB 0.20 PPB 0.17 PPB 0.20 PPB 0.17 PPB 0.15 PPB 0.15 PPB 0.15 PPB 0.15 PPB 0.16 PPB 0.17 PPB 0.17 PPB 0.17 PPB 0.18 PPB 0.17 PPB 0.18 PPB	# 71486537668407615572567299899998630 # 999999999999999999999999999999999999
2222 20200 M	wed O	ct	0 16:19:21	2007	Page 2
	17	5	-		

Data File : J:\MS04\DATA\101007\1 Acq On : 10 Oct 2007 12:18 pm Sample : 8260 ICAL 0.2PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:36 2007 Quant Method : J:\MS04\METHODS\10 Title : VOA MS04 EPA Method Last Update : Wed Oct 10 16:02:4 Response Via : Initial Calibration DataAcq Meth : 8260	1007MS d 8260:	04-8	II Mu Quant Result	Vial: 5 perator: HC st : MS ltiplr: 1. s File: 10 Integrator)	: 04 00 1007M504-8260
Compound	R.T.	QIor	n Response	Conc Unit	Ovalue
(#) = qualifier out of range (m) = 1010F005.D 101007MS04-8260.M	manua Wed O	ct 1	tegration 0 16:19:21	2007	Page 3





Sam Miso MS	ple c Integ	: 8 : ratic	260 I(260 I)	ZOU CAL (FA\101C 7 12:1).2PPB RTEINT)9 2007	8 pm			In Mu	Vial: erator: st : ltiplr:	HC MS04 1.00	·
Meth Titl Last Resp	nod Le : Upd ponse	ate	: J:\N : VOA	MS04\ MS04		S\101 ethod	04000		: Result I (RTE I	s File: ntegrat	1010071 or)	1S04-8
Abundance 8000000						TIC	: 1010F005	D				
7500000												
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3500000												
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2500000	The second s							-d5,1	e-d4,1			
2000000-	A compared with the second					Fluorobenzene, I		Chlorobenzene-d5,1	hlorobenzen			
1500000	e,T		E.	-	မိုက	Fluorab	(MIBK),T	T Trene,S	nzené, J. Dic			
1000000	Dichlorodifluoromethane, T Chloromethane, PT Vinyl Chloride, CT	Bromomethane, T Choroethane, F. Pitchlørølluørømethane, F	eeneentajone. Teletu Sillonde, T	entoreinen Ethona, PT	yr curer, r Brunetheerte, T Blattere, T Blattere, T Blattere, T Bytteatte, T	ne,MT ropape,CT onethane,T	Petrophene poluene-d8, 5 poluene-d8, 5 poluene-d8, 5 petrophene petrome T	Haner (ECb) Sub-member Brood Usroes Brood Usroes	101901 10101 1000000	Ballizane, T		
500000-	Dichlorodifluorome Chloromethane, PT Vinyl Chloride, CT	Bromomethane, T Chloroethane, T Pichlørofluoromet	Etrer, I Material Internetionan Material Internetionan Methylene Collonide, T Methylene Collonide, T	reares 1, se toren ar eauna Hexane, T Olisotophene, PT	2.5 4 (BUDAL (BUDAL) CUIR), 1 2.5 4 (BUDAL) (BUDAL) (CUIR), 1 (BUDAL) (AUDAL) (BUDAL) (BUDAL) (BUDAL) (AUDAL) (BUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL) (AUDAL)	Trichloroethene,MT 1,2-Dichloroethene,MT Bibinoconcene,CT Bibinoconchloromethane,T	cits 1, Methylipitoproprioring 1, Millery, T Tatutanec/Myoluene-d8, S Tatutanec/Myoluene-d8, S Lans 1, 3, Dichlorophonene, T 1, 1, 2, Lichlorophonene, T	1.2.2016/ontoethaten (EDB4), T 1.2.2016/00000000000000000000000000000000000	មជ្ឈ មិចប្រព្រៃឧត្រគ្នាពីទោកមិតាខេ, T ទំនិញជាមិលាមិនមិនក្រុមក្រស់ក្រស់ពាន់ទោះ A-Dichlorobenzene-d4. ។. ទិយ៉ាវ៉ាត្រាទិនមិតិភ័តាe, M T 1.3.5-Trichlorobenzene T	He246-Highbonangerter 1,2,3-Trichlorobenzene, T		
0		~							*** £````	- 190		
Time> 4.00				10.00	12.00	14.00	16.0D	18.00	<u>20.00</u> 22	2.00 24.0	0 26.00	
1010F00!	5.D	10100	7MS04	-8260).M	Wed	Oct 1	.0 16:19:	22 2007	7	Page	4
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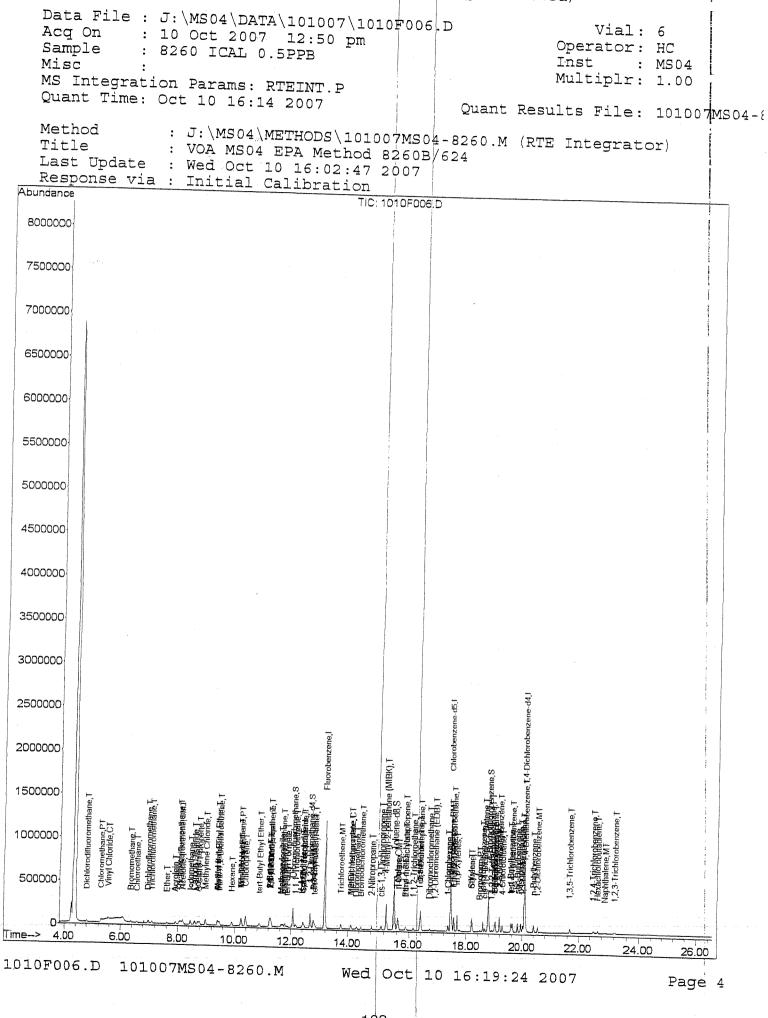
	*		و کلی سند. مد ته تیسه ۷ سفتر سری و	78 har hat /	ŧ
Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 12:50 Sample : 8260 ICAL 0.5PPB Misc : MS Integration Params: RTEINT.P	pm	D6.D	Ir	Vial: 6 Derator: HC Dst : MS Ditiplr: 1.0	04
Quant Time: Oct 10 16:05:41 200	7		Quant Result	s File: 10:	1007MS04-8260
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met	101007MS hod 8260	04-82		integrator)	
Last Update : Wed Oct 10 16:02 Response via : Initial Calibrat DataAcq Meth : 8260	. 47 0000			47 1	0.10.0
Ducancy Meth: 8260				110 1	
Internal Standards	R.T.	QIon	Response	Conc Units	h(O) Dev(Min)
1) Fluorobenzene	13.19	96	1677507		
63) Chlorobenzene-d5	17.44	117	1177591		
83) 1,4-Dichlorobenzene-d4	20.08	152	555021	10.00 PPF	B 01.00
System Monitoring Compounds					
41) Dibromofluoromethane	12.08				ł
Spiked Amount 10,000	12.00	113	204834	5.18 PPB	
47) 1,2-Dichloroethane-d4	12.67	65	Recove: 148855	ry = 51 5.25 PPB	•
Spiked Amount 10.000 61) Toluene-d8			Recove:	rv = 52	502
Spiked Amount 10.000	15.52	98	508254	4.94 PPB	
82) 4-Bromofluorobenzene			Recover	ry = 49 4.83 PPB	.40%
Spiked Amount 10.000	18.79	95	207264	4.83 PPB	0.00
			Recover	ry = 48	.30%
Target Compounds	4	and the second			
2) Dichlorodifluoromethane 3) Chloromethane	4.82	85	26616	0.51 PPB	Qvalue 93
4) Vinyl Chloride	5.31		35388	0.57 PPB	96
5) Bromomethane	5.58 6.37		29616	0.52 PPB	93
6) Chloroethane	6 50		19552		
7) Dichlorofluoromethane 8) Trichlorofluoromethane	6 0-		22438 51792	0.56 PPB 0.53 PPB	92
8) Trichlorofluoromethane 9) Ether	7.11	101	33065	0.53 PPB	100 100
10) Trichlorotrifluoroothana	7.63	59	12655	0.50 PPB	88
11) 1,1-Dichloroethene	8.08	151	21485	0.54 PPB	97
12) Acetone	8.13	96	22234	0.52 PPB	95
13) Iodomethane	8.46	127	2011E	22.09 PPB	97
14) Carbon Disulfide	8.62	76	2J140 91980	1.05 PPB	97
17) $3-Clorel-1-property$	7.92	56	33029	9.55 PPR	97 97
18) Acetonitrile	8.78	41	34366	0.48 PPB	99
19) Methylene Chloride	8.72	41	54905	23.04 PPB	96
21) Methyl tert-Butyl Ether	9.42	84 78	43517	0.83 PPB	91
22) trans-1,2-Dichloroethene	9.49	95	28457	0.99 PPB	98
24) 1 1-Digbloroothers	9.89	57	31386	0.52 PPB	90 97
25) Vinvl Acetate	10.23	6В	43865	0.51 PPB	.97
26) Acrylonitrile	10.22	86	4906	0.90 PPB	# 59
27) Diisopropyl Ether	10.21	2 B 2 B	15375	2.07 PPB	98
28) Chloroprene	10.39	#2	00314 70308	U.51 PPB	98
29) tert-Butyl Ethyl Ether	10.87	59	46470	1.03 PPB	96
<pre>8) Trichlorofluoromethane 9) Ether 10) Trichlorotrifluoroethane 11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane 14) Carbon Disulfide 15) Acrolein 17) 3-Cloro-1-propene 18) Acetonitrile 19) Methylene Chloride 21) Methyl tert-Butyl Ether 22) trans-1,2-Dichloroethene 23) Hexane 24) 1,1-Dichloroethane 25) Vinyl Acetate 26) Acrylonitrile 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether 30) 2,2-Dichloropropane (#) = qualifier out of range (m)</pre>	11.29	77	31599	0.54 PPB	99
(#) = qualifier out of range (m) 1010F006.D 101007MS04-8260 M					
1010F006.D 101007MS04-8260.M	= manua	LL Lnt	cegration		*
			- TO:TA:53 5	2007	Page 1

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Data File : J:\MS04\DATA\101007	7\1010 <u>5</u> 0		¢	·	and the second second
	0101010 ma	00.0		Vial: 6	
Sample : 8260 ICAL 0.5PPB Misc		1		Operator: HC Inst : MS(
MISC : MS Integration Params: RTEINT.P		1		Multiplr: 1.()
Quant Time: Oct 10 16:05:41 200) —		1		
			Quant Resul	lts File: 101	007MS04-826(
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met	101007Ms			Theorematical	
Title : VOA MSO4 EPA Met	hod 8260	DB/62	4	fillegrator)	
Last Update : Wed Oct 10 16:02 Response via : Initial Calibrat		7		L	
DataAcq Meth : 8260	lon				n de la casa de la cas En esta de la casa de la
					d (Balling)
Compound					
	R.T.	QIOT	n Response	Conc Unit	Ovalue
31) Ethyl Acetate	11.28				
32) cis-1,2-Dichloroethene	11.28	q) 4175 5 28941		
33) 2-Butanone	11.24	72		0.52 PPB	99
35) Methacrylonitrile	11.65		· 35842 / 15121	20.36 PPB	
36) Bromochloromethane	11.71				
37) Chloroform	11.79				200
38) tert-butyl Formate	11.87	59	8177		
40) 1,1,1-Trichloroethane	12.17	97	30768		83
43) Isobutyl Alcohol	12.40	4 B	12662	29.10 PPB	95 # 73
44) Carbon Tetrachloride 45) 1,1-Dichloropropene	12.45		26939	0.52 PPB	# 73 91
46) tert-Amyl Methyl-ether	12.42			0.49 PPB	94
48) Benzene	12.84			0.59 PPB	# 60
49) 1,2-Dichloroethane	12.79			0.52 PPB	" 98
50) Trichloroethene	12.79	62			96
52) Methyl methacrylate	13.75 14.14	95			
53) 1,2-Dichloropropane	14.14 14.12				97 # 66
55) Dibromomethane	14.31	6B 93			93
56) Bromodichloromethane	14.49		11629	0.52 PPB	96
58) 2-Nitropropane	14.82	41	25271 10169	0.50 PPB	97
59) cis-1, 3-Dichloropropene	15.12	75	28619		85
60) 4-Metnyl-2-pentanone (MTBK	15.28	100	43768	0.48 PPB 18.07 PPB	
	15.62	92	56863	0.50 PPB	93
64) Ethyl methacrylate 65) n-Octane	15.89	69		0.42 PPB	92 89
66) trans-1 2 Dichleman	15.64	85	14233		
 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1.3-Dichloroethene 	15.87	75		0.47 PPB	92
68) Tetrachloroethene	16.14	8B	11638	0.53 PPB	95
69) 2-Hexanone	16.37	164	22438	0 53 000	0 7
70) 1,3-Dichloropropane	16.41 16.39	57	29304	17.86 PPB	95
71) Dibromochloromethane	1				~ ~ ~ ~
72) 1,2-Dibromoethane (EDB)	16 90	107	17917	0.51 PPB	86
73) 1-Chlorohexane	17.34	55	14523 18970	0.52 PPB	88
74) Chlorobenzene	17.48	112	10970	0.49 PPB	98
75) Ethylbenzene	17.56	105	30436	0.52 PPB	99
76) 1,1,1,2-Tetrachloroethane	17.55	131	20586	0.47 PPB	94
77) m,p-Xylenes 78) o-Xylene	17.69	106	76719	0.49 PPB 0.52 PPB 0.47 PPB 0.50 PPB 0.94 PPB	92
79) Styrene	18.18	106	35846	0.94 PPB 0.46 PPB	99 97
80) Bromoform	18.20	104	53728	0.43 PPB	97
81) Isopropylbenzene	18.47	17B	8431	0.46 PPB 0.43 PPB 0.48 PPB	93
	10.00	TOP	88458	0.45 PPB	95
(#) = qualifier out of range (m) 1010F006.D 101007MS04-8260 M	= manin=				
1010F006.D 101007MS04-8260.M	Wed	Ct 1	0 16.10.22	<u></u>	
				2007	Page 2
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Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 12:50 p Sample : 8260 ICAL 0.5PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:41 2007 Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Metho Last Update : Wed Oct 10 16:02:4 Response via : Initial Calibratic DataAcq Meth : 8260	m 01007MS od 8260	Q1 04-826	Ir Mu lant Result	Vial: 6 Derator: HC Dst : MSO Altiplr: 1.00 Cs File: 1010 Cntegrator)	
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
<pre>84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene 106) 1,2,3-Trichlorobenzene</pre>	18.65 18.90 19.01 19.03 18.99 19.18 19.19 19.29 19.58 19.62 19.82 19.95 20.02	88 83 156 91 101 105 134 105 105 146	8337 13048 25297 106910 3431 73441 69857 65359 17329 66333 90397 75775 47745	1.69 PPB 0.52 PPB 0.51 PPB 0.47 PPB 0.49 PPB 0.49 PPB 0.52 PPB 0.48 PPB 0.51 PPB 0.48 PPB 0.48 PPB	90 98 92 97 # 70 98 97 100 # 81 99 99 99 99

(#) = qualifier out of range (m) = manual integration 1010F006.D 101007MS04-8260.M Wed Oct 10 16:19:23 2007

Page 3

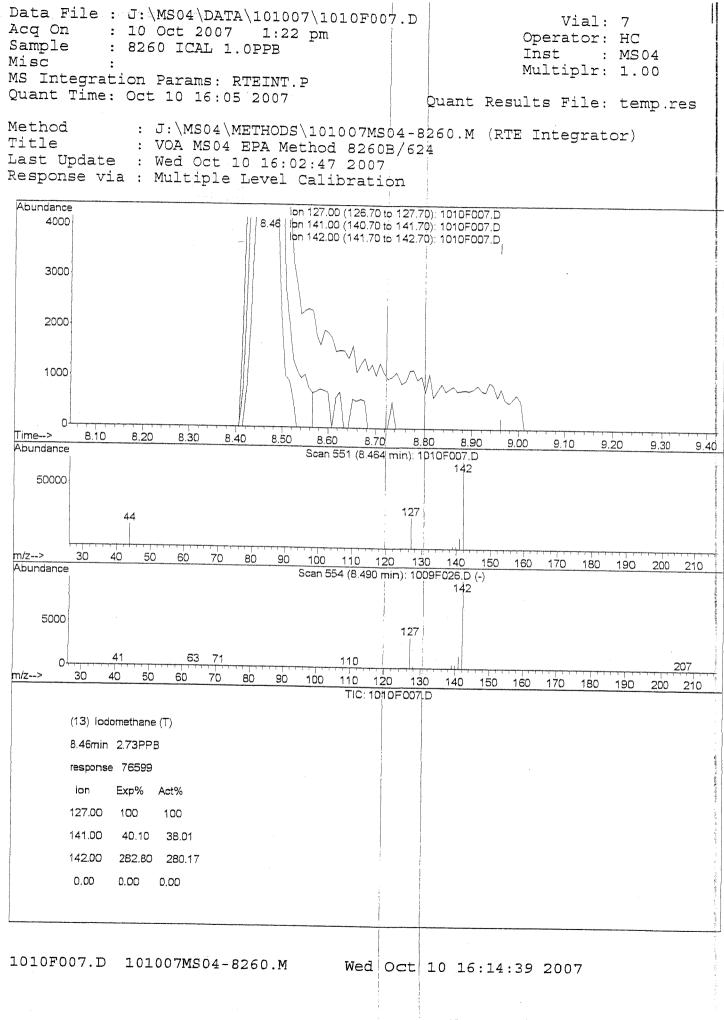


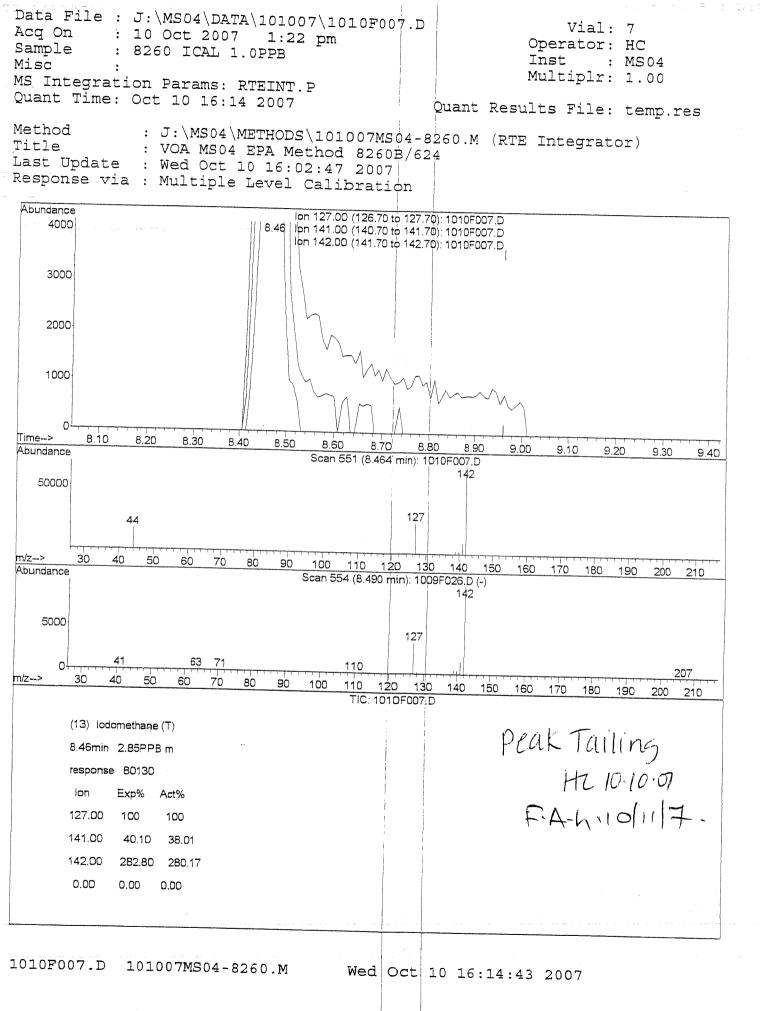
Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 1:22 Sample : 8260 ICAL 1.0PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:46 200	pm	O7.D Vial: 7 Operator: HC Inst : MS04 Multiplr: 1.00 Quant Results File: 101007MS04-826(
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met Last Update : Wed Oct 10 16:02 Response via : Initial Calibrat	100 8260	04-8260.M (RTE Integrator) DB/624
DataAcq Meth : 8260	- 01.	the 10.10.0 F-A-h:10/11/7.
Internal Standards	R.T.	QIon Response Conc Units Dev(Min)
1) Fluorobenzene 63) Chlorobenzene-d5 83) 1,4-Dichlorobenzene-d4	13.18	96 1680140 10 00 DDD
63) Chlorobenzene-d5 83) 1 4 Dichlereberge	17.44	
03) 1,4-Dichlorobenzene-d4	20.08	152 565913 10.00 PPB 0.00
System Monitoring Compounds		
41) Dibromofluoromethane	12.08	113 261301 6.57 PPB 0 01
Spiked Amount 10.000)	
47) 1,2-Dichloroethane-d4	12.67	Recovery = 65.70% 65 181620 6.36 PPB 0.00 Recovery = 63.60% 98 688116 6.64 PPB 0.00 Recovery = 66.40% 95 284035 6.57 PPB 0.00
Spiked Amount 10.000 61) Toluene-d8 Spiked Amount 10.000	,	Recovery = 63.60%
Spiked Amount 10.000	15.52	98 688116 6.64 PPB 0.00
oz/ 4-bromoriuorobenzene	18 79	$\begin{array}{rcl} \text{Recovery} &= & 66.40\% \\ Recover$
Spiked Amount 10.000	10.75	PROVINE 6.57 PPB 0.00
Townsh Course		Recovery = 65.70%
Target Compounds		Qvalue
2) Dichlorodifluoromethane 3) Chloromethane	4.82	
	5.31	50 67567 1.08 PPB
5) Bromomethane	5.58	62 58936 1.03 PPB 96 94 35141 0.93 PPB 97
6) Chloroethane	6.57	61 10000
6) Chloroethane 7) Dichlorofluoromethane	6.97	
8) Trichlorofluoromethane	7.11	6/ 101661 1.04 PPB 100 101 67163 1.07 PPB 96
9) Ether 10) Emighlement (5)	7.63	59 24203 0 96 PPB 96
10) Trichlorotrifluoroethane	8.08	3p 24203 0.96 PPB 94 151 43437 1.09 PPB 96
12) Agetone	8.13	96 43507 1.02 PPB 93
13) Iodomethane	8.18	4B 174712 39.84 PPB 99
14) Carbon Disulfide	8.46	127 80130m 2.85 PPB
15) Acrolein	7 92	76 184257 1.03 PPB 98
17) 3-Cloro-1-propene	8.77	50 65443 18.79 PPB .91
18) Acetonitrile	8.72	41 96489 40 21 PPB
19) Metnylene Chloride	8.99	41 96489 40.21 PPB 98 84 70783 1.34 PPB 93
 8) Trichlorofluoromethane 9) Ether 10) Trichlorotrifluoroethane 11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane 14) Carbon Disulfide 15) Acrolein 17) 3-Cloro-1-propene 18) Acetonitrile 19) Methylene Chloride 20) tert-Butyl Alcohol 21) Methyl tert-Butyl Ether 22) trans-1,2-Dichloroethene 23) Hexane 24) 1,1-Dichloroethane 	9.06	59 5714 5.43 PPB 79
22) trans-1.2-Dichloroethene	9.42	73 128432 1.91 PPB 98
23) Hexane	9.48	96 55821 1.02 PPB 94
<pre>23) Hexane 24) 1,1-Dichloroethane 25) Vinyl Acetate 26) Acrylonitrile</pre>	10 23	57 62511 1.02 PPB 98
25) Vinyl Acetate	10.22	85 10475 1.00 PPB 96
26) Acrylonitrile	9.42	57 62511 1.02 PPB 94 57 62511 1.02 PPB 98 63 90956 1.06 PPB 96 86 10475 1.92 PPB # 57 53 29177 3.91 PPB 99 45 124525 0.96 PPB 50
27) Dilsopropyl Ether	10.21	33 29177 3.91 PPB 99 45 124525 0.96 PPB 98 88 143040 2.72 72 72
<pre>25) Vinyl Acetate 26) Acrylonitrile 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether</pre>	10.39	88 143949 3.72 PPB
	10.87	59 90198 0.96 PPB
(#) = qualifier out of range (m) 1010F007.D 101007MS04-8260.M	= manua Wed O	l integration Oct 10 16:19:26 2007 Page 1
	184	

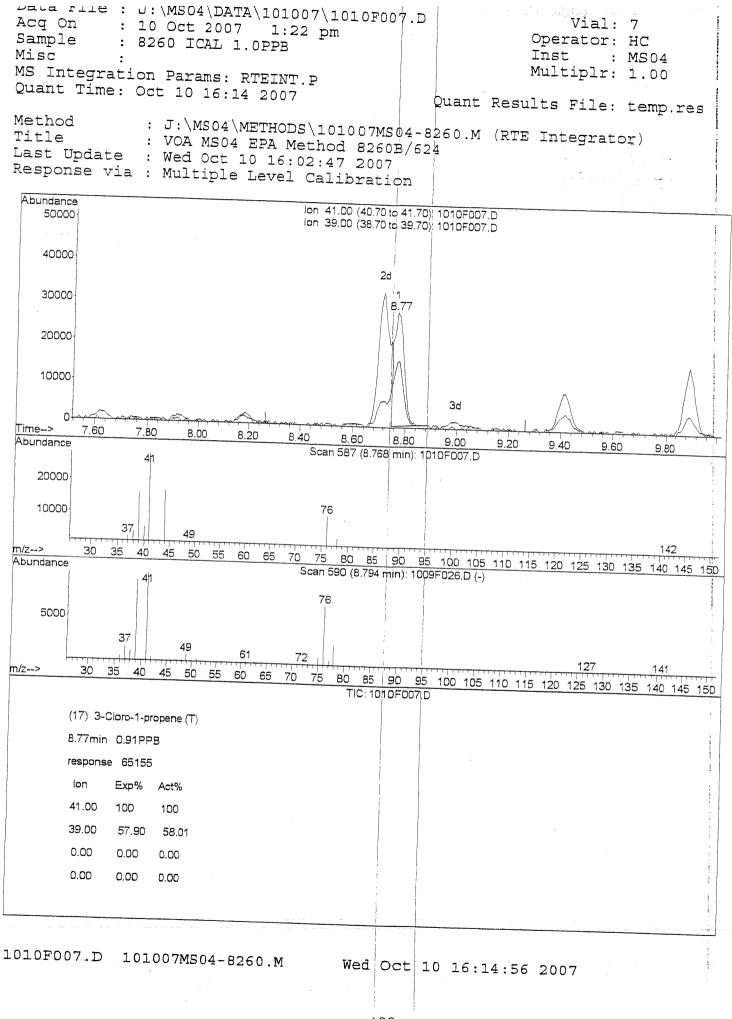
			-	, 1 t	and the second state of the	
Data File : J:\MS04\DATA\10100	7\1010F0	07.D		Vial: 7		
Acq On : 10 Oct 2007 1:22 Sample : 8260 ICAL 1.0PPB	pm		C	perator: HC		
Misc :			I	nst : MS	74	
MS Integration Params: RTEINT. P	-		М	ultiplr: 1.0)))	
Quant Time: Oct 10 16:05:46 200						
			Quant Resul	ts File: 10	L007MS04-	826(
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met	101007M	_		Thtomatory	N	
Title : VOA MS04 EPA Met	hod 826	0B/624	1 1	incegrator)	-down	
Last Update : Wed Oct 10 16:02 Response via : Initial Calibrat		7		من : يُنْ يُنْ يَنْ يَنْ يَنْ اللَّهُ عَلَيْهِ اللَّهِ : الإِنْ اللَّهُ : مَنْ يَنْ اللَّهِ :	S7801, 16	
DataAcq Meth : 8260	ion			and a second second Second second second Second second		
1.00 m . 0200						
~ .					a Menera yan 1963 yang dari dari dari dari dari dari dari dari	
Compound	R.T.	QION	Response	Conc Unit		
30) 2,2-Dichloropropage						
30) 2,2-Dichloropropane 31) Ethyl Acetate 32) cis-1,2-Dichloroethene	11.29	77	62579	1.06 PPB 3.93 PPB 1.01 PPB 38.50 PPB 4.10 PPB 3.74 PPB 1.01 PPB 1.03 PPB 1.03 PPB 1.03 PPB 1.03 PPB 1.03 PPB 1.02 PPB	97	,
32) cis-1,2-Dichloroethene	11.27	(7p	8283	3.93 PPB	98	
33) 2-Butanone	11.27	95	56162	1.01 PPB	97	
34) Propionitrile	11.24	72	68257	38.50 PPB	# 88	
35) Methacrylonitrile	11.38	54	9652	4.10 PPB	85	
36) Bromochloromethane	11.65	67	30322	3.74 PPB	91	
37) Chloroform	11.71	128	26470	1.01 PPB	93	
38) tert-butyl Formate	11.79	83	82580	1.03 PPB	97	
40) 1,1,1-Trichloroethane	11.87	59	16093	0.91 PPB	# 83	
43) Isobutyl Alcohol	12.17	97	62475	1.03 PPB	" 05 96	
44) Carbon Tetrachloride	12.39	4B	20013	45.67 PPB	93	
45) 1,1-Dichloropropene	12.44	117	53643	45.67 PPB 1.02 PPB	98	
46) tert-Amyl Methyl-ether	12.42	75	63337	0.98 PPB	96	
48) Benzene	12.84	55	17926	1.03 PPB	# 86	
49) 1,2-Dichloroethane	12.79	78	188193	1.02 PPB 0.98 PPB 1.03 PPB 1.01 PPB 1.03 PPB 0.99 PPB 0.90 PPB 0.99 PPB 1.01 PPB		
50) Trichloroethene	12.79	62	41381	1.03 PPB	96	
52) Methyl methacrylate	13.75	95	47579	0.99 PPB	92	
53) 1,2-Dichloropropane	14.14	69	11374	0.90 PPB	89	
55) Dibromomethane	14.12	6B	43665	0.99 PPB	97	
56) Bromodichloromethane	14.30	9В	22569	1.01 PPB	90	
56) Bromodichloromethane 57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane	14.49	8B	50419	0.99 PPB	100	
 57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane 59) cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBK 62) Toluene 64) Ethyl methacrylate 65) n-Octane 	14.84	6 З	7242	0.94 PPB	±00 90	
59) cis-1,3-Dichloropropend	14.81	41	18887	5.25 PPB	94	
60) 4-Methyl-2-pentapope (MTDK	15.12	75	56406	0.94 PPB	97	
62) Toluene	15.28	10p	90896	37.27 PPB	# 87	
64) Ethyl methacrylate	15.62	92	111756	0.98 PPB	99	
65) n-Octane	15.89	6Р	21642	0.84 PPB	97	
66) trans-1,3-Dichloropropens	15.63	85	28716	0.99 PPB	98	
67) 1,1,2-Trichloroethane	15.87	75	40434	0.92 PPB	98	
 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1 3-Dichloroethene 	16.15	8B	22325	1.00 PPB	95	
69) 2-Hexanone	16.37	164	43861	1.02 PPB	95	
70) 1,3-Dichloropropane	16.41	57	59347	35.89 PPB	99	
71) Dibromochloromethane	16.39	76	47869	1.00 PPB	97	
72) 1,2-Dibromoethane (EDB)	16.71	129	34403	0.96 PPB	96	
73) 1-Chlorohexane	10.90	107	27459	0.97 PPB	99	
74) Chlorobenzene	1/.34	55	38637	1.00 PPB	 95	
75) Ethylbenzene	17 5	112	127079	1.01 PPB	97	
76) 1,1,1,2-Tetrachloroethano	17	106	61791	0.96 PPB	100	
77) m,p-Xylenes	17 60	T3F	40401	0.97 PPB	97	
78) o-Xylène	10 10	106	155161	1.89 PPB	97	
<pre>68) Tetrachloroethene 69) 2-Hexanone 70) 1,3-Dichloropropane 71) Dibromochloromethane 72) 1,2-Dibromoethane (EDB) 73) 1-Chlorohexane 74) Chlorobenzene 75) Ethylbenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane 77) m,p-Xylenes 78) o-Xylene #) = qualifier out of range (m) 010F007 D_101007MS04 spece M</pre>	B	106	72191	0.93 PPB	99	
#) = qualifier out of range (m) 010F007.D 101007MS04-8260 M	= m=	7	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
010F007.D 101007MS04-8260.M			egration			
	weu i C		10:19:26	2007	Page 2	
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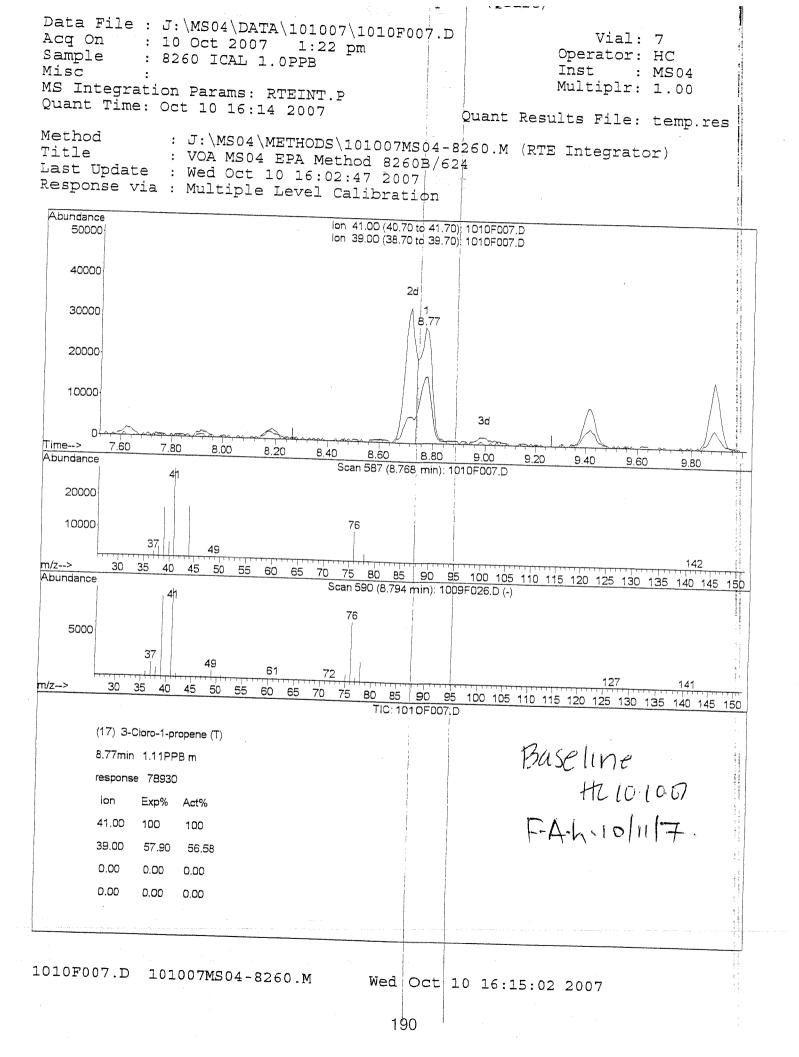
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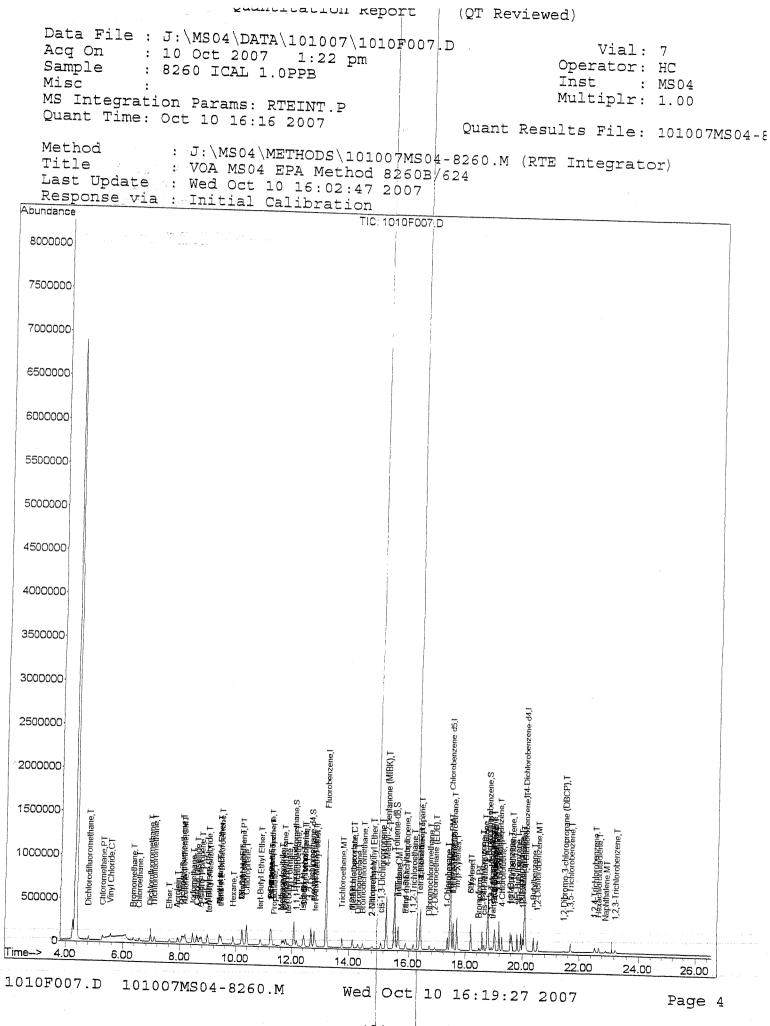
Acq On : 10 Oct 2007 1:22 p Sample : 8260 ICAL 1.0PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:46 2007 Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Metho Last Update : Wed Oct 10 16:02:4 Response via : Initial Calibratic DataAcq Meth : 8260	m 01007MS od 8260	Qu 04-826	Or Ir Mu ant Result	Vial: 7 berator: HC ast : MS04 altiplr: 1.00 s File: 1010 integrator)	
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
79) Styrene 80) Bromoform	18.19 18.47 18.57 18.65 18.90 19.01 19.03 18.95 18.99 19.19 19.29 19.58 19.62 19.62 19.62 19.62 19.62 19.58 19.62 19.58 19.62 19.58 19.58 20.02 20.11 20.41 20.56 21.46 21.69 22.52 23.26	104 1755 8856 1909 10014 1909 10014 10882 10015 10014 10882 1805 1805 1805 1805 1805 1805 1805 1805	107873 16743 180039 16722 26033 50361 215710 4334 6986 140908 140220 132001 35564 136367 184073 155233 93230 97236 128934 77224 3129 53016 35919 18485 38612 23443	0.86 PPB 0.94 PPB	97 97 99 99 99 99 99 99 98 77 87 99 98 97 98 97 97 98 97 99 98 97 99
(#) = qualifier out of range (m) 1010F007.D 101007MS04-8260.M	= manua Wed	al int Oct 10	egration 16:19:26	2007	Page 3
	18	6			







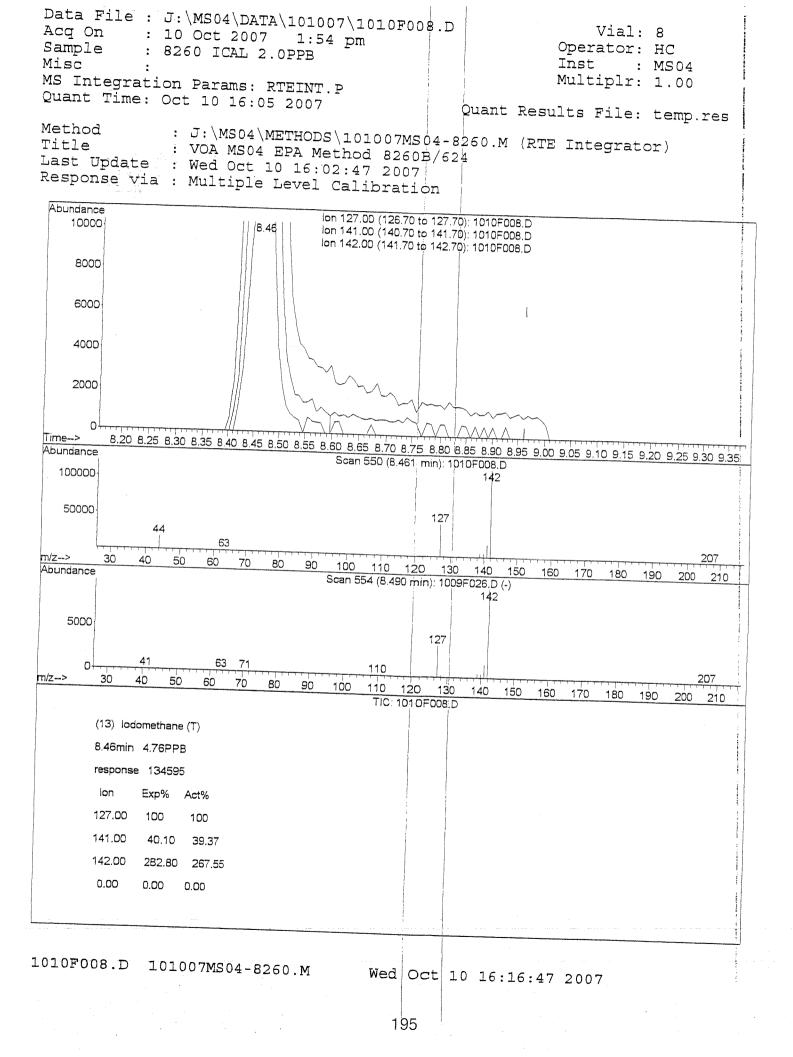


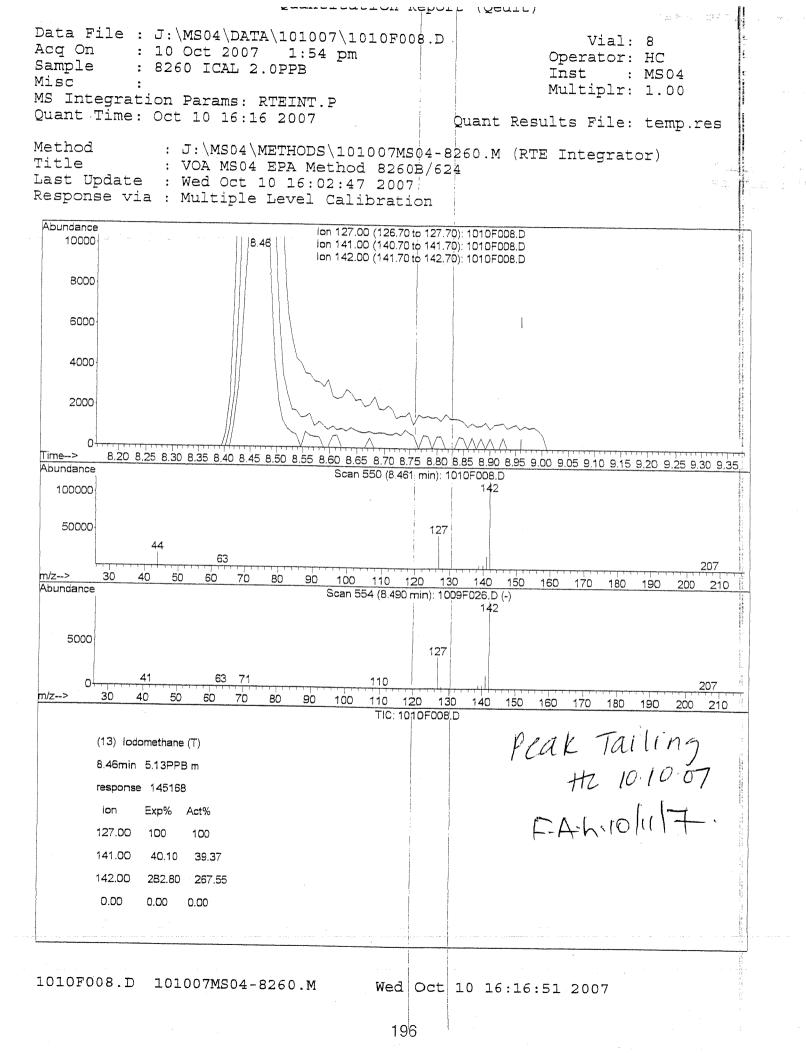


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Data File : J:\MS04\DATA\101007					
100 CE 2007 1.54		18.D		Vial: 8	
Sample : 8260 ICAL 2.0PPR	Pm		C	perator: HC	
Misc :			I	nst : MS04	L
MS Integration Params: RTEINT.F	b		M	ultiplr: 1.00	[
Quant Time: Oct 10 16:05:47 200	7				
			luant Resul	ts File: 101007	MS04-826(
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met	101007MS			Toola a surrent in State	ſ
Title : VOA MS04 EPA Met	hod 8260	B/624	OO.M (KIE		
- HADE OPUALE : WED UCT IN 16.05				HT IOIC	n. KTana
Response via : Initial Calibrat	ion			14 10.11	1 VI CAR
DataAcq Meth : 8260				H2 10.10 F.A.h	$\int \int du d\tau$
Internal Standards				FAM	. 10/11/ 1
	R.T.	QION	Response	Conc Units Dev	v(Min)
1) Fluorobenzene					
 63) Chlorobenzene-d5 83) 1,4-Dichlorobenzene-d4 	13.19	96	1701487	10.00 PPB	a.oo
83) 1.4-Dichlorobenzene-d4	17.44	117	1197117		0 00
, =, = = = = = = = = = = = = = = = = =	20.08	152	577169	10.00 PPB 10.00 PPB	d.00
System Monitoring Compounds					
41) Dibromofluoromethane	12.07				i i
Spiked Amount 10,000	12.07	113		7.24 PPB	0.00
47) 1,2-Dichloroethane-d4	12.67		Recove	ery = 72.40%	
Spiked Amount 10.000	12.0/	65	212616	7.39 PPB	0.00
61) Toluene-d8	15 50	0	Recove	ry = 73.908	5
Spiked Amount 10.000	20.20	98	738033	ery = 73.90% 7.07 PPB	0.00
82) 4-Bromofluorobenzene	18.79	95	Recove	FV = 70 70%	í f
Spiked Amount 10.000	20.75	25		6.95 PPB	0.00
			Recove	ery = 69.50%	
Target Compounds				2	,
2) Dichlorodifluoromethane	4.82	85	55716	QV 1.06 PPB	alue
3) Chloromethane	5.30	50	96186	1.52 PPB	98
4) Vinyl Chloride 5) Bromomethane	5.58	62	96186 72669 53340	1.26 PPB	96
6) Chloroethane	6.37	94	53340	1.40 PPB	99 94
7) Dichlorofluoromethane	6.59	64	59307	1.45 PPB	99
8) Trichlorofluoromethane		67	143255	1.46 PPR	99
9) Ether	7.11	101	71675		97
10) Trichlorotrifluoroethana	7.63	59	48549	1.90 PPB	99
11) 1,1-Dichloroethene	8.07	151	44990	1.12 PPB	99
12) Acetone	8.12	96	52275	1.22 PPB	98
13) Iodomethane	8.18	48	304074	68.83 PPB	99
9) Ether 10) Trichlorotrifluoroethane 11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane 14) Carbon Disulfide 15) Acrolein 17) 2 Clore 1 mage	0.40 8 61	12/	145168m	5.13 PPB	and the second se
15) Acrolein	7.92	70	234207	1.30 PPB	99
					97
 17) S-Cloro-1-propene 18) Acetonitrile 19) Methylene Chloride 20) tert-Butyl Alcohol 21) Methyl tert-Butyl Ether 22) trans-1.2-Dichloroethene 	8.71	41 41	TORAU	1.45 PPB	99
19) Methylene Chloride	8.99	++ 84	エッセン48 11719 <i>年</i>	80.41 PPB	98
20) tert-Butyl Alcohol	9.05	5 <u>4</u> 59	10600	2.20 PPB	99
21) Metnyl tert-Butyl Ether	9.42	7B	256481	10.08 PPB 3.79 PPB	79
	9.47	96 -	80123		99
	9.90	57			98
24) 1,1-Dichloroethane	10.23	6В	139459	1.61 PDP	100
26) Acrylopitrile	10.22	86	19876	3.61 PPR #	70 60
27) Diisopropul Ether	9.42	5B	57800	7.68 PPB	96
28) Chloroprepe	10.21	45	233538	1.79 PPB	20 90
29) tert-Butvl Ethyl Ethon	10.39	88	183534	4.71 PPB	99
<pre>24) 1,1-Dichloroethane 25) Vinyl Acetate 26) Acrylonitrile 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether (#) = gualifier out of range (m)</pre>	10.87	59	173915	1.84 PPB	98
1010F008.D 101007MS04-8260.M			egration	• • • •	1
	neu O		то:тэ:28	2007 Pa	ge 1

	rep	リエレ	(QT Revie	awed)	la de la della d
Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 1:54 Sample : 8260 ICAL 2.0PPB	12020		C	Vial: 8 Derator: HC	Benne and a second s
Misc :]]	inst : MS()4
MS Integration Params: RTEINT.P			M	Multiplr: 1.0	0
Quant Time: Oct 10 16:05:47 200	7		Duant Resul	te File. 101	007MS04-826
Quant Method					00/MS04-826
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Meti	101007MS	04-8	260.M (RTE	Integrator)	
Last Update : Wed Oct 10 16.00		B/62	4 1971 - 2017	43	a Shory Yeardin
Response Via : Initial Calibrat	ion				No Solida da la companya da la comp
DataAcq Meth : 8260					
		-i		1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	
Compound					ter i slovi, e «
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	R.T.	QIOT	n Response	Conc Unit	Qvalue
					2
30) 2,2-Dichloropropane 31) Ethyl Acetate 32) cis-1,2-Dichloroethene 33) 2-Butanone 34) Propionitrile 35) Mothe amlenit	11.27	70) 16551	1.39 PPB	96
33) 2-Butanona	11.27	96	95083	1.79 PPB 1.70 DDD	97
34) Propionitrile	11.24	72	116572	65.28 PPR	99
	-			7.04 FFR	i u /
36) Bromochloromethane 37) Chloroform	11.66	67	60949	7.45 PPB	94
37) Chloroform	11.72		5TT / 8	1 94 DDD	100
38) tert-butyl Formate	11 00	00	TO / O T T		100
39) Tetrahydrofuran 40) 1,1,1-Trichloroethane	11.78		29570	1.66 PPB	87
40) 1,1,1-Trichloroethane	12.17	97	12054 78597	2.82 PPB	85
43) ISODUTYL Alcoho]	12.39		34230	1.28 PPB 77.55 PPB	99
44) Carbon Tetrachloride	12.44	ニエエ	61910	1 17 DDD	0~
45) 1,1-Dichloropropene 46) tert-Amyl Methyl-ether	12.42	7þ	78143	1 19 DDB	0.4
48) Benzene		5Þ	34903	1 99 DDB	07
49) 1,2-Dichloroethane	12.78	78	297493	1 58 000	
50) Trichloroethene	12.79 13.74	62 95	78936	1.95 PPB	98
52) Methyl methagraniata	14.13	20	67812	1.40 PPB	97
53) 1,2-Dichloropropane 54) 1,4-Dioxane 55) Dibromomethane	14.12	63			87
54) 1,4-Dioxane	14.26	88		1.79 PPB 71.31 PPB	95
	14.31	93	43232	1.91 PPB	97
56) Bromodichloromethane	14.49	83	92449	תתת 20	93 99
57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane	14.84	6.3	13557	1.75 PPR	
59) cis-1,3-Dichloropropene	14.81	41	32697	9.03 PPR	97
58) 2-Nitropropane 59) cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBK 62) Toluene	15.12	75			77
	15.62	100	162209	66.03 PPB	94
64) Ethyl methacrylate	15.90	54 69	1/3050 1/700	1.51 PPB 1.72 PPB	95
65) n-Octane	15.63	85	43426	1.72 PPB	97
67) 1 1 2-Trichlemeth	15.87	75	79208	1.78 PPB	97
68) Tetrachloroethene	16.14	8В	43873	1.95 PPB	96 91
69) 2-Hexanone	16.37	164	56325	1.30 PPB	96
70) 1,3-Dichloropropane	16.40	57	109393	65.60 PPB	94
71) Dibromochloromethane	16 71	76	93686	1.93 PPB	99
<pre>64) Echyl Methadrylate 65) n-Octane 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1,3-Dichloropropane 71) Dibromochloromethane 72) 1,2-Dibromoethane (EDB) 73) 1-Chlorobexane</pre>	16.90	107	66771 540CZ	1.85 PPB	1,00
73) 1-Chlorohexane		/·	$54267 \\ 46314$	I.SO PPB	1 0 0 L
73) 1-Chlorohexane 74) Chlorobenzene 75) Ethylbenzene	17.34 17.47		220021	1.18 PPB 1.73 PPB	
75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane	17.56	106	93252	1.43 PPB	
	i	131	74203	1.77 PPB	98 96
(#) = qualifier out of range $(m)1010F008.D 101007MS04-8260 M$					
1010F008.D 101007MS04-8260.M		1⊥ in	tegration		
	wed		U 16:19:28	2007	Page 2
	1				i

Data File : J:\MS04\DATA\101007\2 Acq On : 10 Oct 2007 1:54 pr Sample : 8260 ICAL 2.0PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:47 2007 Quant Method : J:\MS04\METHODS\10 Title : VOA MS04 EPA Metho Last Update : Wed Oct 10 16:02:4 Response via : Initial Calibratic DataAcq Meth : 8260	m 01007MS 0d 8260 47 2007	04-82 B/622	In Mu Quant Result		HC MS04 1.00	007MS04-8260
Compound	R.T.	QIOT	Response	Conc U	nit	Qvalue
<pre>77) m,p-Xylenes 78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 88) trans-1,3-Dichloro-2-Buten 89) 1,2,3-Trichloropropane 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 101) 1,2-Dichlorobenzene 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene 106) 1,2,3-Trichlorobenzene</pre>	17.69 18.18 18.19 18.47 18.57 18.65 18.90 19.00 19.03 18.95 18.99 19.19 19.29 19.58 19.63 19.95 20.02 20.11 20.56 21.47 21.69 22.51 22.51 22.66 22.92 23.25		$\begin{array}{c} 238679\\ 119278\\ 197310\\ 32691\\ 256884\\ 36118\\ 51339\\ 93730\\ 316101\\ 9630\\ 14489\\ 230014\\ 219469\\ 213072\\ 51172\\ 224591\\ 257905\\ 231549\\ 168650\\ 179207\\ 199643\\ 149727\\ 7334\\ 99102\\ 70517\\ 30057\\ 81229\\ 48046 \end{array}$	2.89 1.52 1.55 1.81 1.29 7.05 1.98 1.81 1.34 1.97 2.01 1.56 1.45 1.59 1.35 1.49		97 96 99 95 99 91 100 95 99 87 88 99 98 99 98 99 95 96 99
(#) = qualifier out of range (m) 1010F008.D 101007MS04-8260.M	= manu Wed 194	Oct :	ntegration 10 16:19:28	2007	•	Page 3



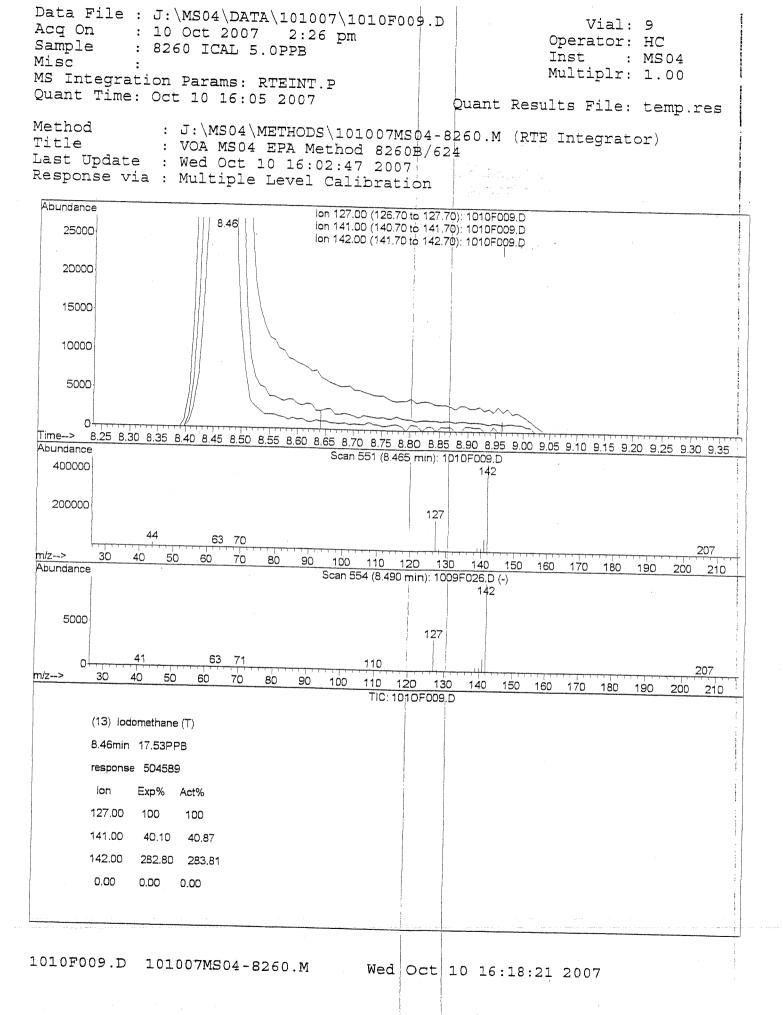


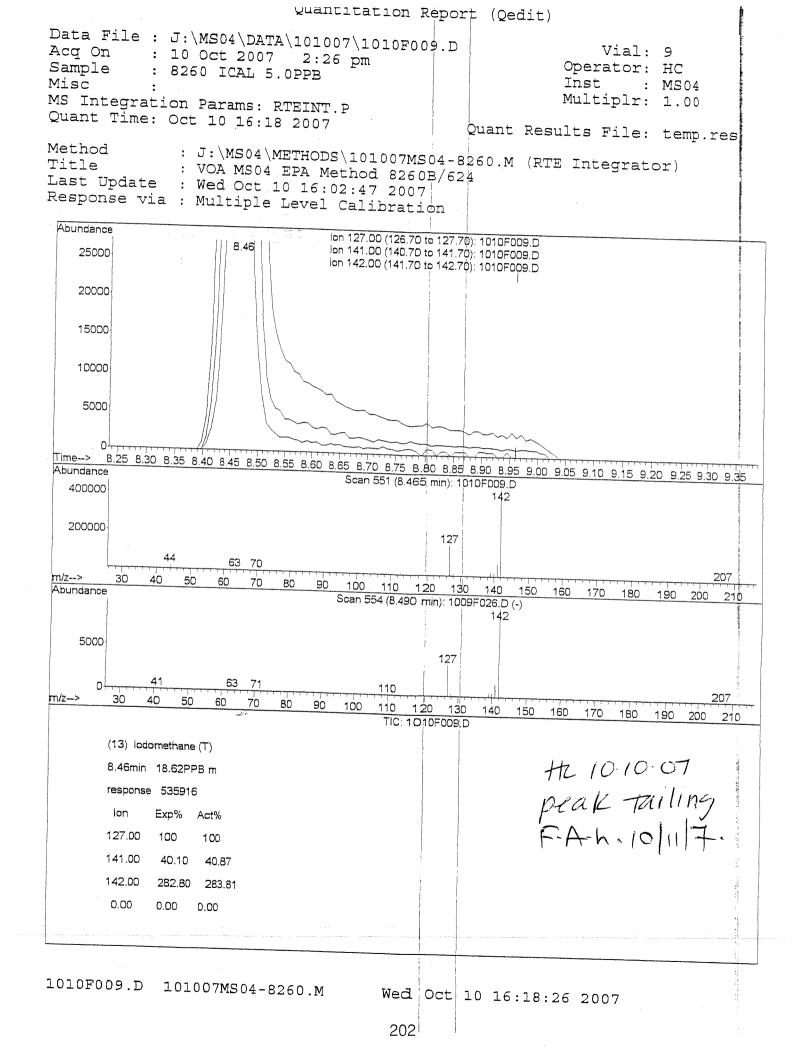
ACQ Samp Misc MS I	on : 1 ole : 8 c : Integratio	0 Oct 200 260 ICAL n Params	07 1:54 2.0PPB : RTEINT '		. D	Ope: Ins	Vial: rator: t : tiplr:	HC MS04	
Meth Titl Last	Update onse via	: J:\MS04 : VOA MS(: Wed Oct	4\METHODS' 04 EPA Met	\101007MS0 thod 8260B 2:47 2007 tion	4-8260.M /624			101007MS or)	04-8
8000000				TIC: 1010F008	D				
7500000									
7000000	2								
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3500000									
3000000									
2500000				(MIBK), T	cene-d5,1	Jenzene-d4,			
2000000			e, T e, S S Fluorobenzene I	Trichforcethene,MT 1. B. Hattauschantene,MT 1. B. Hattauschantene, T 2. Otthemerkeninghene, T 2. Otthemerkeninghene, T 2. Otthemerkeninghene, T 2. Otthemerkeninghene, T 2. Ottoene, T 3. Dichtonoreliancy, Mellhyl-2 pentanone (MIBK), T 1. 1. 2. Dichtonoreliancy, T 1.	អ្នកក្រសាល់ទៅអធាតេ ខ្លេកម្នុំ។ LChlorothanel ខេកម្នុំ។ LChlorothanel ខេកម្នាក់អ្នកអ្នកអ្នកស្រុកនេះ នៅស្រុកអ្នកអ្នកអ្នកអ្នកអ្នកអ្នកអ្នក នៅអ្នកអ្នកអង់អង្គរខ្លាំវិសុំមានការ ene. S 4. Chlorothanelរិសុំអាត់មិនតែវិសាល់នៅខ្លាំសុំអាត់មិនne. T	ut purit heritone Azene, T 2934000000000000000000000000000000000000			
1500000	nane, T Mig. T	etman I Iei T T T T T T T T T T T T T		r me, t: T me, t: T her, T mered8, S opene, T botandirupiloj	2019), T 1919, Topologian 1911, Topologi	Behzene, T Behlbrbbenzi Ine, MT opane (DBC ene, T	e, Te. T.		
1000000-	Dichlorodifluoromethane, T Chloromethane, PT Vinyl Chloride, CT Bilgmomethane, T Dichtloroffluoromethane, F	Ether, T (AURETHING two weeks and T (AURETHING the weeks and T (AURETHING THE AURETHING) tert Marth Van Bill (AURETHING) tert Marth Marting the Aurething A D Hearang T Hearang T		Trichloroethene.MT Trichloroethene.MT 1. application of the CT 1. application of the CT 2. Otherwaretrapholicy feature. I ois-1.3. Diction of the CT ois-1.3. Diction of the CT ois-1.3. Diction of the CT 1.1.2. Trichloroethane. The CT 1.1.2. Tric	1.420600000000000000000000000000000000000	412 Publishing Alsone, T 412 Publishing Alsone, T 1,2 Publishing Bling Inc. M T 1,2 Pubromo, 3, chloropropane (DBCP), T 1,3 5-Trichlarobenzene, F	<mark>나라.4.6.</mark> 시(ਨੇ방)(()()()()()()()()()()()()()()()()()()		
500000	Dichloro Chloron Vinyl Cl Bigmony Highlers	Active Control of Cont	Childropic Lent-Bury Ethy Propic, Minesteration Lent Minesteration 11, 1- 19/2010	Trichlon 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1,2 ¹ 0,000 1,2 ¹ 0,000 Brogram 1,000 1,00	1,2-Phone 1,2-Ph	Hezachlö Naphthaler 1,2,3-Trict		
0	6.00	10.00 10.00	<u>12.00</u>	14.00 16.00	<u>ki MALAMMA</u>	20.00 22.1			
1010F00	8.D 1010	07MS04-82			LO 16:19:		<u>DD 24.</u>	00 26.00 Page 4	
				197					

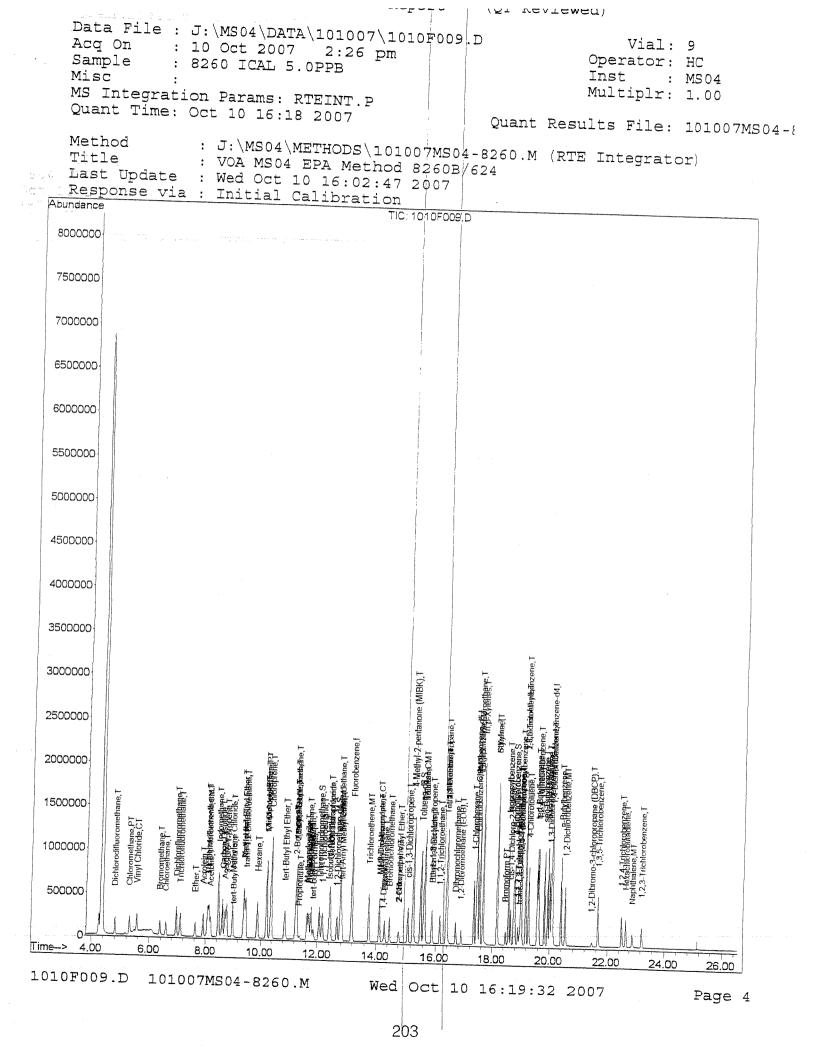
Quantital	топ керс	ρŗτ	(QT Reviewed)	
Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 2:26 J Sample : 8260 ICAL 5.0PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:49 200	om		Vial: 9 Operator: HC Inst : MS04 Multiplr: 1.00 Quant Results File: 101007MS04	-826(
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Meth		04-82		
Last Update : Wed Oct 10 16:02: Response via : Initial Calibrati DataAcq Meth : 8260	47 2007		+tz 10.10 F-A.h.10	
Internal Standards	R.T.	QIOT	n Response Conc Units Dev(Mi	
1) Fluorobenzene				-
63) Chlorobenzene-d5	13.18	96	5 1731883 10.00 PPB 0. 7 1218501 10.00 PPB 0.	
83) 1,4-Dichlorobenzene-d4	17.44	117	7 1218501 10.00 PPB 0.	
037 171 Diemiorobenzene-04	20.08	152	2 588479 10.00 PPB 0.	00
System Monitoring Compounds				
41) Dibromofluoromethane	12.07	778	347211 8.51 PPB 0.	<u> </u>
Spiked Amount 10.000			Pecover - 0 - 100	00
47) 1,2-Dichloroethane-d4	12.67	65	3241558 8.25 PPB 0.	0.0
Spiked Amount 10.000				50
61) Toluene-d8	15.52	98	Recovery = 82.50% 936303 8.81 PPB 0.	0.0
Spiked Amount 10.000			Recoverv = 88.10	50
82) 4-Bromofluorobenzene	18.79	95	Recovery = 88.10% 362690 8.17 PPB 0.	00
Spiked Amount 10.000			Recovery = 81.70 %	50
Towart Compounds				
Target Compounds 2) Dichlorodifluoromethane	(Qvalu	2
3) Chloromethane	4.82		261859 4.89 PPB	99
4) Vinyl Chloride	5.31			0 0
5) Bromomethane	5.58			99
6) Chloroethane	6.37	94		99
7) Dichlorofluoromothana	6.58	64		99
8) Trichlorofluoromethane	6.97	67		99
9) Etner	7.11			00
10) Trichlorotrifluoroethane 11) 1.1-Dichloroethene	8 08	פכ	127982 4.93 PPB	96
11) 1,1-Dichloroethene	8 13	45 T J T	202505 4.95 PPB 216027 4.93 PPB	98
10) Trichlorotrifluoroethane 11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane	8.18	20 4 R		99
···· /	8.46	127	535916m 18.62 PPB	7
14) Carbon Disulfide	8.62	76	0.0 = 0.0 =	99
15) Acrolein	7.92	56	351682 98 51 PPR	
17) 3-Cloro-1-propene	8.77	41	375517 5.13 PPB 10	
18) Acetonitrile	8.71	41	491941 199.96 PPB 1(
19) Methylene Chloride	9.00	84	287542 5.29 PPB	
20) tert-Butyl Alcohol 21) Methyl tert-Butyl Ether 22) trans-1,2-Dichloroethene 23) Hexane	9.05	59	28561 26.46 PPB	
22) trans-1 2-Dichlorosthere	9.42	7B	689416 10.00 PPB	9
23) Hexane	9.48	96	279075 4.96 PPB	9
24) 1.1-Dichloroethane	9.89	5/	304943 4.87 PPB 10	
23) Hexane 24) 1,1-Dichloroethane 25) Vinyl Acetate 26) Acrylonitrile	10.23	000	446437 5.05 PPB	
26) Acrylonitrile	9 42	20-0 20-0	54627 9.76 PPB 10	
27) Diisopropyl Ether	10 21		155656 20.32 PPB 9	
28) Chloroprene	10.39	80	756225 10 21 PPB 5	9
26) Acrylonitrile 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether	10.87	59	766225 19.31 PPB 9	
				8
(#) = qualifier out of range (m)	= manua	al ir	ntegration	
1010F009.D 101007MS04-8260.M	Wed	Dat 1	LO 16:19:31 2007 Page	7
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and the second provide the second			VX+ TUCYTO	weu/		1
Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 2:26 p Sample : 8260 ICAL 5.0PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:49 2007	pm		L: Mi	Vial: 9 perator: HC nst : MSO ultiplr: 1.0 ts File: 101	0	A - 92 6 (
Quant Method : J:\MS04\METHODS\3 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:02: Response via : Initial Calibrati DataAcq Meth : 8260	47 2007	04-8		Integrator)		
Compound	R.T.	QIOT	Response	Conc Unit	Oval	üe
<pre>35) Propriorities 35) Methacrylonitrile 36) Bromochloromethane 37) Chloroform 38) tert-butyl Formate 39) Tetrahydrofuran 40) 1,1,1-Trichloroethane 43) Isobutyl Alcohol 44) Carbon Tetrachloride 45) 1,1-Dichloropropene 46) tert-Amyl Methyl-ether 48) Benzene 49) 1,2-Dichloroethane 50) Trichloroethane 50) Trichloroethene 51) Methyl methacrylate 53) 1,2-Dichloropropane 54) 1,4-Dioxane 55) Dibromomethane 56) Bromodichloromethane 57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane 59) cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBK 62) Toluene 64) Ethyl methacrylate 65) n-Octane 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1,3-Dichloropropane 71) Dibromochloromethane 72) 1,2-Dibromoethane (EDB) 73) 1-Chlorobenzene 74) Chlorobenzene 75) Etherlane</pre>	<pre>11.29 11.27 11.28 11.24 11.39 11.65 11.71 11.79 11.87 11.78 12.16 12.39 12.44 12.41 12.84 12.79 12.79 12.79 12.79 13.75 14.14 14.11 14.25 14.31 14.48 14.81 15.12 15.28 15.61 15.89 15.63 15.61 15.89 15.63 15.61 15.89 15.63 15.87 16.14 16.37 16.40 16.39 16.71 16.90 17.34 17.55 = manus Wed</pre>	-7797562854941757696689864709687865720510811111 -7797562854941757696689864709687865720510811111	$\begin{array}{c} 305171\\ 44322\\ 287062\\ 159208\\ 48874\\ 163415\\ 136336\\ 411276\\ 85927\\ 23254\\ 308785\\ 88012\\ 262703\\ 321959\\ 89878\\ 953502\\ 208136\\ 237533\\ 61073\\ 230123\\ 25472\\ 116848\\ 261464\\ 38852\\ 91210\\ 309403\\ 214429\\ 576508\\ 126817\\ 145650\\ 222853\\ 118062\\ 218431\\ 146125\\ 245575\\ 181621\\ 145866\\ 195340\\ 653491\\ 324681\\ 215613\\ \end{array}$	5.02 PPB 20.50 PPB 5.04 PPB 87.59 PPB 20.24 PPB 19.64 PPB 5.07 PPB 5.02 PPB 4.75 PPB 4.96 PPB 4.96 PPB 4.97 PPB 4.87 PPB 4.87 PPB 4.87 PPB 4.87 PPB 4.87 PPB 5.02 PPB 4.97 PPB 5.04 PPB 4.73 PPB 5.11 PPB 5.01 PPB 5.01 PPB 4.93 PPB 5.01 PPB 4.93 PPB 5.00 PPB 4.93 PPB 5.00 PPB 4.94 PPB 4.94 PPB 4.95 PPB 4.95 PPB 4.95 PPB 4.95 PPB 4.91 PPB 5.06 PPB	# # 1 1	- 9999189999054867999999999999999999999999999999999999
	199	1				

Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 2:26 p Sample : 8260 ICAL 5.0PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:05:49 2007	m		Ir Mu	Vial: 9 Derator: HC 1st : MSO 1tiplr: 1.0 1s File: 101	4 0 007MS04-8260
Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:02: Response via : Initial Calibratic DataAcq Meth : 8260	00 8260 47 0007	04-82		ntegrator)	
Compound	R.T.	QION	Response	Conc Unit	Qvalue
<pre>77) m,p-Xylenes 78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 88) trans-1,3-Dichloro-2-Buten 89) 1,2,3-Trichloropropane 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 101) 1,2-Dibromo-3-chloropropan 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene 106) 1,2,3-Trichlorobenzene</pre>	18.18 18.19 18.47 18.58 18.64 18.90 19.00 19.02 18.95 18.98 19.17 19.19 19.28 19.58 19.62 19.82 19.94 20.01 20.10 20.41	10070886480464466 1909300 1909300 1909300 1909300	135098 270521 1174001 25591 38301 749273 772241 688380 188173 762484 980171	4.87 PPB 4.80 PPB 5.03 PPB 4.81 PPB 19.48 PPB 5.12 PPB	98 98 99 95 95 99 93 99 93 99
(#)					· · · · · · · · · · · · · · · · · · ·
(#) = qualifier out of range (m) 1010F009.D 101007MS04-8260.M	= manua Wed O	l int	egration 0 16:19:31 :	2007	Page 3
	200)			



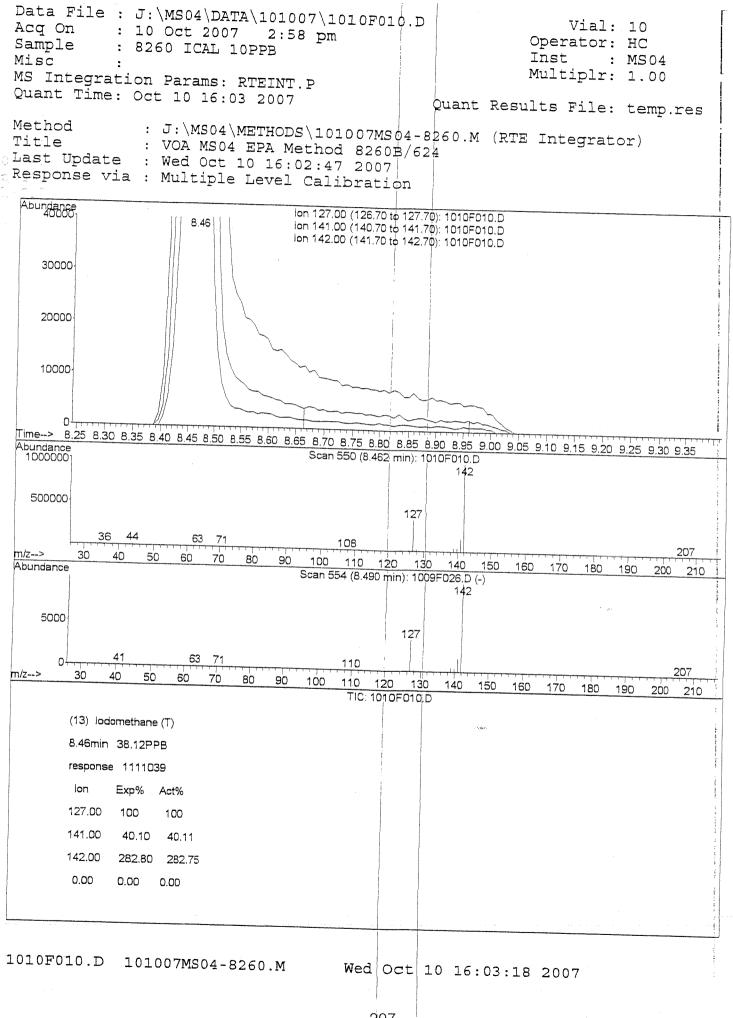


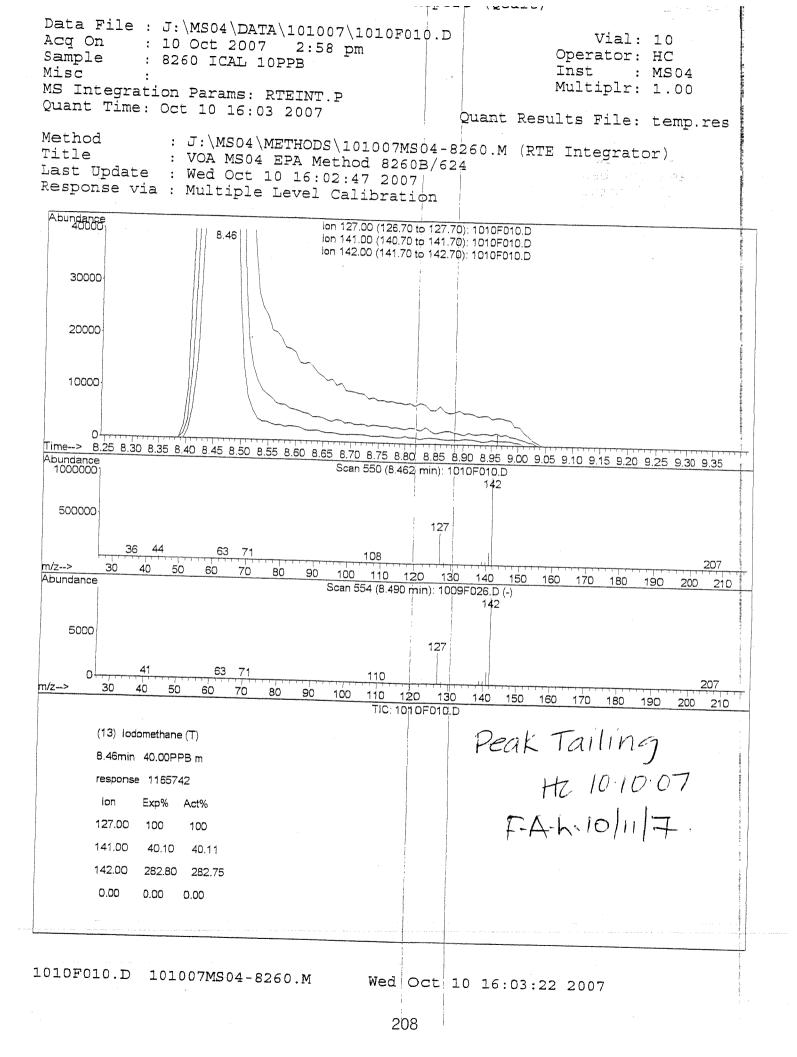


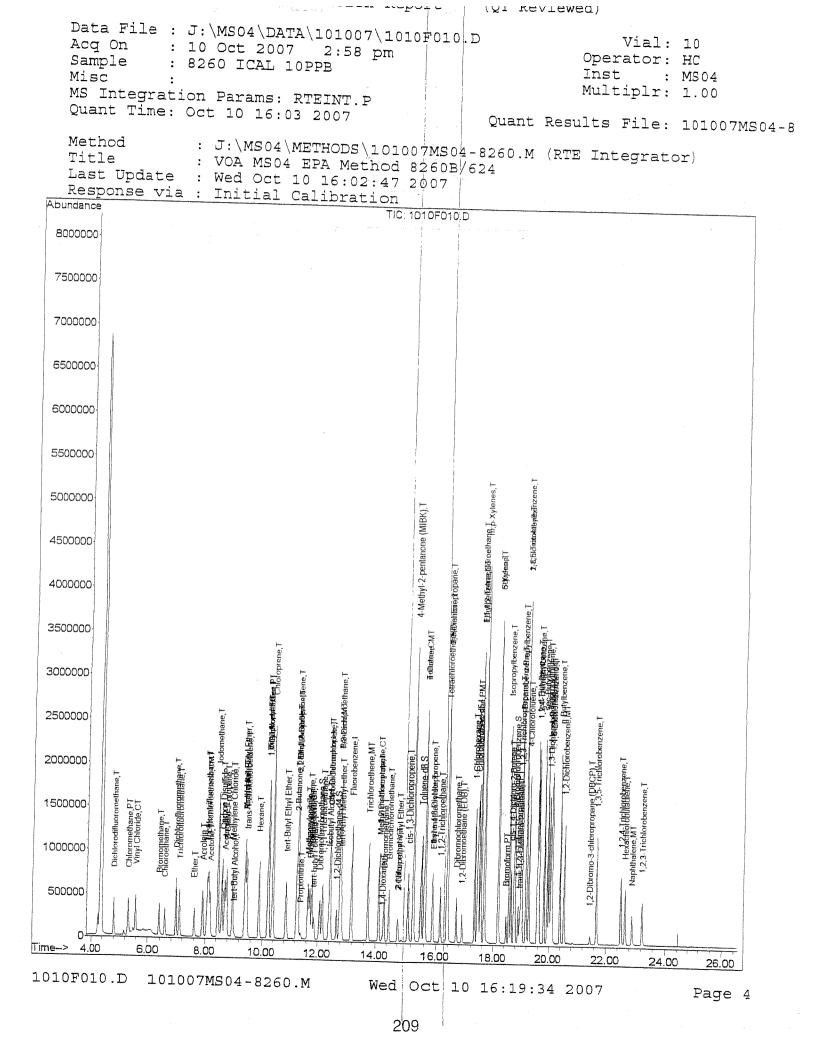
Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 2:58 Sample : 8260 ICAL 10PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:03:01 200 Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met: Last Update : Wed Oct 10 16:02 Response via : Initial Calibrat: DataAcq Meth : 8260 Internal Standards	pm 7 101007MS hod 8260	04-8 B/62	I M Quant Resul 260.M (RTE 4	Integrator)	00 007MSQ4-8260 10.07
1) Fluorobenzene	 10 CT				
63) Chlorobenzene-d5	17 44	סכ	1753678	10.00 PPB	0.00
83) 1,4-Dichlorobenzene-d4	20.07	150		10.00 PPB 10.00 PPB 10.00 PPB	0.00
	20.07		60914/	10.00 PPB	0,.00
System Monitoring Compounds		4			
41) Dibromofluoromethane	12.07	113	41 71 00		й -
Spiked Amount 10.000		نــــ		10.00 PPB	
47) 1,2-Dichloroethane-d4	12.66	65	Recove	ery = 100	.00%
Spiked Amount 10.000	12.UU		270585	10.00 PPB	0.00
61) Toluene-d8	15.52	90	Recove	ery = 100. 10.00 PPB	.00%
Spiked Amount 10.000		סכ	1075669	10.00 PPB	0.00
82) 4-Bromofluorobenzene	18.78	95	Recove	ery = 100.	
Spiked Amount 10.000	10./0	סל		10.00 PPB	0.00
			Recove	ery = 100.	.00%
Target Compounds	*				2
2) Dichlorodifluoromethane	4.82	85			Qvalue
3) Chloromethane	5.31	50 5h	541/50 650756	10.00 PPB	100
4) Vinyl Chloride	5.58	50	500/20 500/76	10.00 PPB	100
5) Bromomethane	6.37	94	2724/0 292507	10.00 PPB 10.00 PPB 10.00 PPB	100
b) Chloroethane	C =	54 64	37200/ 101705	TO.00 PPB	100
7) Dichlorofluoromethane	-	0 =	441/90	10.00 PPB	100
8) Trichlorofluoromethane 9) Ether	7.10	101	LUL4200 654600	10.00 PPB	100
9) Ether	7.63		004003 062040	10.00 PPB	100
10) Trichlorotrifluoroethane	8.07	151	203040 111001	TO'OO PDD TO'OO PDD	100
11) 1,1-Dichloroethene	8.12		474004	TO.00 PPP	100
12) Acetone	8.17	48	440440 91 0600	TO'OO BDB	100
13) Iodomethane	8.46	127	1165742m	200.00 PPB	100
14) Carbon Disulfide	8.61	76	1855461	40.00 FFD	
15) Acrolein	7.91	56	723020	10.00 PPP	100
17) 3-Cloro-1-propene	8.77	41	741064	10 00 PFB	100
18) Acetonitrile	8.71	41	996449	TO.OU PPB	100
19) Methylene Chloride	8.99	84	549939	400.00 FFB 10 00 DDD	100
20) tert-Butyl Alcohol	9.04	59	54642	TO OO PPP	100
21) Methyl tert-Butyl Ether	9.42	7B	1396115	20.00 FFD 20 00 DDD	100
22) trans-1,2-Dichloroethene	9.47	96	569419	10 00 FFD	100
23) Hexane	9.89	57	634179	10.00 PPB	100
24) 1,1-D1Chloroethane	10.23	6В	894812	10 00 PPR	100
25) VIIIYI ACETATE	10.21	86	113382	20.00 PPR	100 100
20/ ACTYLOHITTILE	9.42	5B	310240	40.00 PPB	100
29) Chlemonrone	10.21	45	1347264	10.00 PPB	1,00
20) tort Butul Bits Bits	10.39	88	1607476	40.00 PPB	1.00
29) Leil-Butyl Etnyl Etner	10.87	59	973867	10.00 PPB	100
<pre>8) Trichlorofluoromethane 9) Ether 10) Trichlorotrifluoroethane 11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane 14) Carbon Disulfide 15) Acrolein 17) 3-Cloro-1-propene 18) Acetonitrile 19) Methylene Chloride 20) tert-Butyl Alcohol 21) Methyl tert-Butyl Ether 22) trans-1,2-Dichloroethene 23) Hexane 24) 1,1-Dichloroethane 25) Vinyl Acetate 26) Acrylonitrile 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether (#) = qualifier out of range (m) 1010F010.D 101007MS04-8260 M</pre>	<u>-</u>				
(#) = qualifier out of range (m) 1010F010.D 101007MS04-8260.M	= manua	l in	tegration		
1010101010.D 10100/MD04-0200.M	Wed O	oct 1	0 16:19:33	2007	Page 1
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Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 2:58 Sample : 8260 ICAL 10PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:03:01 200 Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met Last Update : Wed Oct 10 16:02 Response via : Initial Calibrat DataAcq Meth : 8260	pm 7 101007Ms hod 8260	504-8 B/62	l Quant Resul	Operator Inst Multiplr lts File	: MSC : 1.0	04 00 007MS04-8260
Compound	R.T.	1 1	1 Response	e Conc I	Unit	Qvalue
<pre>38) tert-butyl Formate 39) Tetrahydrofuran 40) 1,1,1-Trichloroethane 43) Isobutyl Alcohol 44) Carbon Tetrachloride 45) 1,1-Dichloropropene 46) tert-Amyl Methyl-ether 48) Benzene 49) 1,2-Dichloroethane 50) Trichloroethene 52) Methyl methacrylate 53) 1,2-Dichloropropane 54) 1,4-Dioxane 55) Dibromomethane 56) Bromodichloromethane 57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane 59) cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBK 62) Toluene 64) Ethyl methacrylate 65) n-Octane 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 69) 2-Hexanone 70) 1,3-Dichloropropane 71) Dibromochloromethane 72) 1,2-Dibromoethane (EDB) 73) 1-Chlorobenzene 74) Chlorobenzene 75) Ethylbenzene 76) 1,1,2-Tetrachloroethane</pre>	$\begin{array}{c} 11.27\\ 11.23\\ 11.38\\ 11.64\\ 11.71\\ 11.79\\ 11.86\\ 12.39\\ 12.44\\ 12.41\\ 12.83\\ 12.78\\ 12.79\\ 13.75\\ 14.13\\ 14.25\\ 14.30\\ 14.48\\ 14.81\\ 15.11\\ 15.27\\ 15.61\\ 15.89\\ 15.63\\ 15.86\\ 16.14\\ 16.37\\ 16.40\\ 16.39\\ 15.86\\ 16.14\\ 16.37\\ 16.40\\ 9\\ 16.71\\ 16.90\\ 17.34\\ 17.56\\ 17.55\end{array}$	975628549417576966898647096878657205103 1 17576966898647096878657205103	87591 576379 368103 97806 337056 272315 829372 183205 44030 630712 181963 546235 674174 181209 1942053 418045 497538 130762 455660 53225 232702 528170 79720 186615 626157 506389 181642 269497 302968 460496 232223 44805 501033 372744 295995 404399 1316352 674117 433075		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	
(#) = qualifier out of range (m) 1010F010.D 101007MS04-8260.M				na han ann an an an an an an		
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Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 2:58 p Sample : 8260 ICAL 10PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:03:01 2007	m	¢	Or Ir Mu Quant Result	Vial: 10 perator: HC nst : MS04 ultiplr: 1.00 ts File: 1010)
Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:02: Response via : Initial Calibratic DataAcq Meth : 8260	0a 8260. 47 2007	0/600	260.M (RTE]	Integrator)	
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
<pre>77) m,p-Xylenes 78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 88) trans-1,3-Dichloro-2-Buten 99) 1,2,3-Trichloropropane 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 101) 1,2-Dichlorobenzene 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene 106) 1,2,3-Trichlorobenzene</pre>	17.69 18.18 18.18 18.18 18.57 18.65 18.90 19.00 19.00 19.03 18.95 18.99 19.18 19.19 19.29 19.58 19.62 19.81 19.95 20.02 20.11 20.40 20.56 21.47 21.69 22.51 22.51 23.25	643688668019093001 11108859519093001 19093001 1111	812347 1312685 186536 2052920 216237 273097 546910 2483670 51551 76083 1560888 1601692 1415630 400366 1592454 2093490 1829985 1024610 1032216 1571162 855195 42854 618089 427823 201249 489820	10.00 PPB 10.00 PPB 10.00 PPB 10.00 PPB 40.00 PPB 10.00 PPB	100
(#) = qualifier out of range (m) 1010F010.D 101007MS04-8260.M	= manua Wed C	l in	tegration 0 16:19:33	2007	Page 2
	206	_ _ ide		2007	Page 3



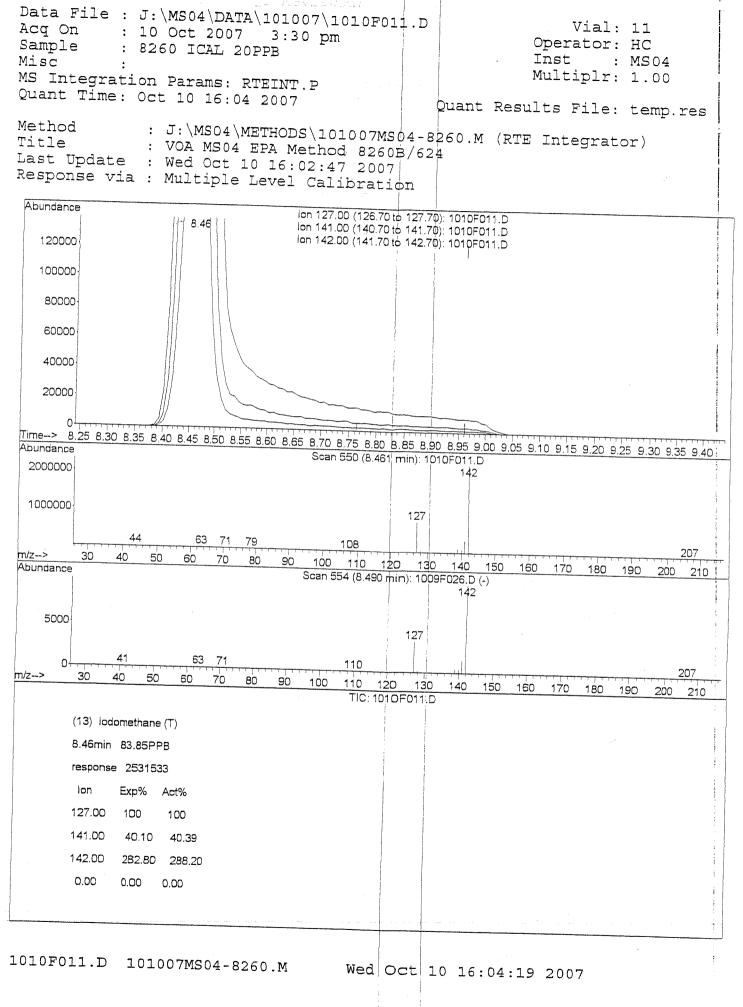




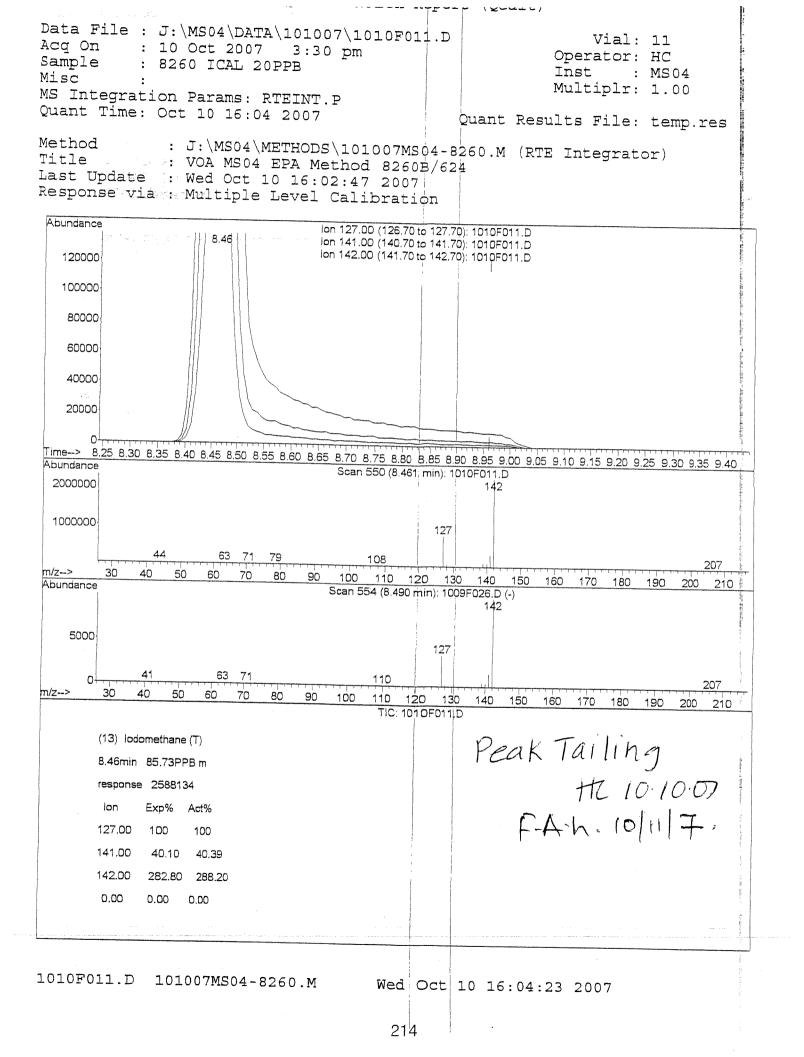
and the second	. T. –		1×+ 11-1×10	weu/	ş
Data File : J:\MS04\DATA\101007					l
	/TOTOF.0T	1.D		Vial: 11	4
Sample : 8260 ICAL 20PPB	քու			perator: HC	
Misc :		1	L	.nst : MSO	4
MS Integration Params: RTEINT.P			l N	Nultiplr: 1.0	0
Quant Time: Oct 10 16:04:03 200	7		Quant Resul	ts File: 101	
Quant Method . J. MSOALMERTODAL					007MB04-8260
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Methods	101007MS	04-8	260.M (RTE	Integrator)	
Last Update Wed Oct 10 16.02	.47 2005	B/62	4		
Response via ": Initial Calibrat.	ion			Ht 10	10.07
DataAcq Meth : 8260				7270	10.07
				FAL	,10/11/IT.
Internal Standards	R.T.	QIor	n Response	Conc Units	Dev (Min)
1) Fluorobenzene					
63) Chlorobenzene-d5	13.18	96	1816711	10.00 PPB	0.00
83) 1,4-Dichlorobenzene-d4	20.07		1272829	10.00 PPB	0,00
	20.07	152	619372	10.00 PPB	0,00
System Monitoring Compounds					
41) Dibromofluoromethane	12.06	11B	1000303	23.37 PPB	0.00
Spiked Amount 10.000	1		Recov	ary = 233	70%
47) 1,2-Dichloroethane-d4 Spiked Amount 10.000	12.66	65	660605	ery = 233 21.50 PPB	0.00
61) Toluene-d8			Dogor	0 107 F	
Spiked Amount 10.000	15.52	9 B		26.41 PPB	
82) 4-Bromofluorobenzene	10 70	0-	Recove	ery = 264.	1
Spiked Amount 10.000	10.70	קפ	1078177 Rođeni	23.26 PPB	0.00
			RECOVE	ery = 232.	60%
Target Compounds 2) Dichlorodifluoromethane					Qvalue
3) Chloromethane	4.81	85		21.82 PPB	.98
4) Vinyl Chloride	5.30	5 p	1440757	21.37 PPB	99
5) Bromomethane	5.57 6.37	62	1324944		98
6) Chloroethane	6.58	94 61	935660 906768		100
7) Dichlorofluoromethane	6.97	67	2162691	70 50 000	100
8) Trichlorofluoromethane	7.10	101	1436887	21 19 000	99
9) Ether	1.63	59	555087		(a a
10) Trichlorotrifluoroethane	8.07	151	934803	71 00 00	0.0
11) 1,1-Dichloroethene 12) Acetone	0.12.	96	980103	21 34 000	0.0
	8.17 8.46	43	1824979	386.92 PPB	1:0.0
14) Carbon Disulfide	8.61		2588134m	85.73 PPB	
15) Acrolein	7.91	7 p 5 6	4088405	21.27 PPB 405.99 PPB	.99
17) 3-Cloro-1-propene	8.76	41	1575003	20 52 000	io o
18) Acetonitrile 19) Methylene Chloride	8.71	41	2086862	808,65 PPB	99
20) tert-Butyl Alcohol 21) Methyl tert-Butyl Ether 22) trans-1.2-Dichloroethere	8.98	84	1132991	19 89 DDD	0.0
21) Methyl tert-Butyl Ether	9.04	59	113626	100 37 DDB	10 7
22) trans-1,2-Dichloroethene	9.41	7B	2937315	40.62 PPB	1.00
25) HEXANE	9.47	90 50	1230454	20.86 PPB	
24) 1,1-Dichloroethane	10.22	6B	1899592	22.68 PPB	98
25) Vinyl Acetate	10.21	85	246194	20.49 PPB 41.92 PPB	99 # 57
26) ACTYLONITTILE 27) Diisconneri Ett	9.41	5 12	<i>E</i> / <i>E E C C</i>		
27) Diisopropyl Ether 28) Chloroprene 28) tort Butul Ethel Su	10.21	45	2896985	80.35 PPB 20.76 PPB 85.75 PPB	100
29) tert-Butyl Ethyl Ether	LU.38	88	3569762	85.75 PPB	99
	T0.8/	59	2091594	20.73 PPB	98
(#) = qualifier out of range (m) 1010F011 D 101007MS04-8260 M	= manua	lin	tegration		
1010F011.D 101007MS04-8260.M	Wed O	ct 1	0 16:19:35	2007	Page 1
	210				
	2.0				

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Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 3:30 p Sample : 8260 ICAL 20PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:04:03 2007 Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:02: Response via : Initial Calibrati DataAcq Meth : 8260	01007MS	04-82	I M Quant Resul	Vial: 11 perator: HC nst : MS04 ultiplr: 1.00 ts File: 1010 Integrator)	
Compound	R.T.	OIor	Response	Conc Unit	
<pre>30) 2,2-Dichloropropane 31) Ethyl Acetate 32) cis-1,2-Dichloroethene 33) 2-Butanone</pre>	$\begin{array}{c} 11.29\\ 11.26\\ 11.27\\ 11.23\\ 11.38\\ 11.65\\ 11.71\\ 11.79\\ 11.86\\ 11.77\\ 12.16\\ 12.39\\ 12.44\\ 12.41\\ 12.83\\ 12.78\\ 12.79\\ 13.74\\ 14.13\\ 14.25\\ 14.30\\ 14.48\\ 14.83\\ 14.11\\ 14.25\\ 14.30\\ 14.48\\ 14.83\\ 14.81\\ 15.11\\ 15.27\\ 15.61\\ 15.89\\ 15.63\\ 15.86\\ 16.14\\ 15.11\\ 15.27\\ 15.61\\ 15.89\\ 15.63\\ 15.86\\ 16.14\\ 15.39\\ 15.63\\ 15.86\\ 16.39\\ 15.63\\ 15.86\\ 16.39\\ 15.63\\ 15.89\\ 15.63\\ 15.89\\ 15.63\\ 15.89\\ 15.63\\ 15.89\\ 15.61\\ 15.27\\ 15.61\\ 15.99\\ 15.63\\ 15.89\\ 15.89\\ 15.63\\ 15.89\\ 15$	- 77975628549417576966898338647096878657205103 - 77975628549417576966898338647096878657205103 - 1111-	$\begin{array}{c} 1324096\\ 184377\\ 1229419\\ 750872\\ 201139\\ 720235\\ 560754\\ 1753202\\ 401899\\ 88235\\ 1356101\\ 385608\\ 1180686\\ 1474589\\ 376514\\ 4212969\\ 867744\\ 1078522\\ 284317\\ 980632\\ 108720\\ 487828\\ 1114523\\ 180005\\ 396295\\ 1361598\\ 1041821\\ 2559213\\ 590466\\ 703321\\ 980219\\ 494490\\ 988493\\ 711336\\ 1047372\\ 794175\\ 618177\\ 910444\\ 2838187\\ 1477146\\ 926299\\ \end{array}$	81.28 PPB 20.59 PPB 393.81 PPB 79.41 PPB 82.51 PPB 19.88 PPB 20.41 PPB 21.18 PPB 20.41 PPB 20.76 PPB 818.25 PPB 20.76 PPB 20.87 PPB 20.94 PPB 20.94 PPB 20.94 PPB 20.93 PPB 20.99 PPB 20.99 PPB 20.97 PPB 20.24 PPB 20.24 PPB 20.37 PPB 21.80 PPB 20.99 PPB 21.80 PPB 20.91 PPB 20.91 PPB 20.91 PPB 20.91 PPB 20.91 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.71 PPB 20.72 PPB 20.33 PPB 20.31 PPB 20.97 PPB 21.31 PPB 20.80 PPB	- 999999999999999999999999999999999999
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		1-	INT TIENTEN	veu)	
Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 3:30 p Sample : 8260 ICAL 20PPB Misc : MS Integration Params: RTEINT.P	m	1 .D	Ir	Vial: 11 Derator: HC Dist : MS04 Altiplr: 1.00	<u>1</u>)
Quant Time: Oct 10 16:04:03 2007			Quant Result	s File: 1010	07MS04-8260
Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Metho Last Update : Wed Oct 10 16:02: Response via : Initial Calibratic DataAcq Meth : 8260	00 8260. 47 0007	04-8 B/62	260.M (RTE I 4	ntegrator)	
Compound	R.T.			an a	
	17.69		n Response		
<pre>78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 89) terrene</pre>	18.17 18.18 18.47 18.57 18.65 18.90 19.00 19.03 18.95 18.98 19.18 19.18 19.19 19.29 19.58 19.58 19.62 19.81	107.0 107.0 108.0 109.0 109.0 109.1 109.1 109.1 105.10	$\begin{array}{c} 1750135\\ 2863442\\ 403497\\ 4578509\\ 479360\\ 563622\\ 1149836\\ 5478380\\ 109815\\ 157442\\ 3354482\\ 3522599\\ 3064810\\ 878383\\ 3483817\\ 4633535\\ 4064103\\ 2174540\\ 2149764 \end{array}$	21.21 PPB 21.03 PPB 21.69 PPB 87.21 PPB 20.30 PPB 20.68 PPB 21.69 PPB 20.95 PPB 20.35 PPB 21.14 PPB 21.63 PPB 21.29 PPB 21.29 PPB 21.58 PPB 21.52 PPB	100 99 97 99 98 100 99 100 96 92 100 99 99
					•• •• • • • • • • • • • • • • • • • •
(#) = qualifier out of range (m) = 1010F011.D 101007MS04-8260.M	= manua Wed O	l in oct l	tegration 0 16:19:36 2	2007	Page 3
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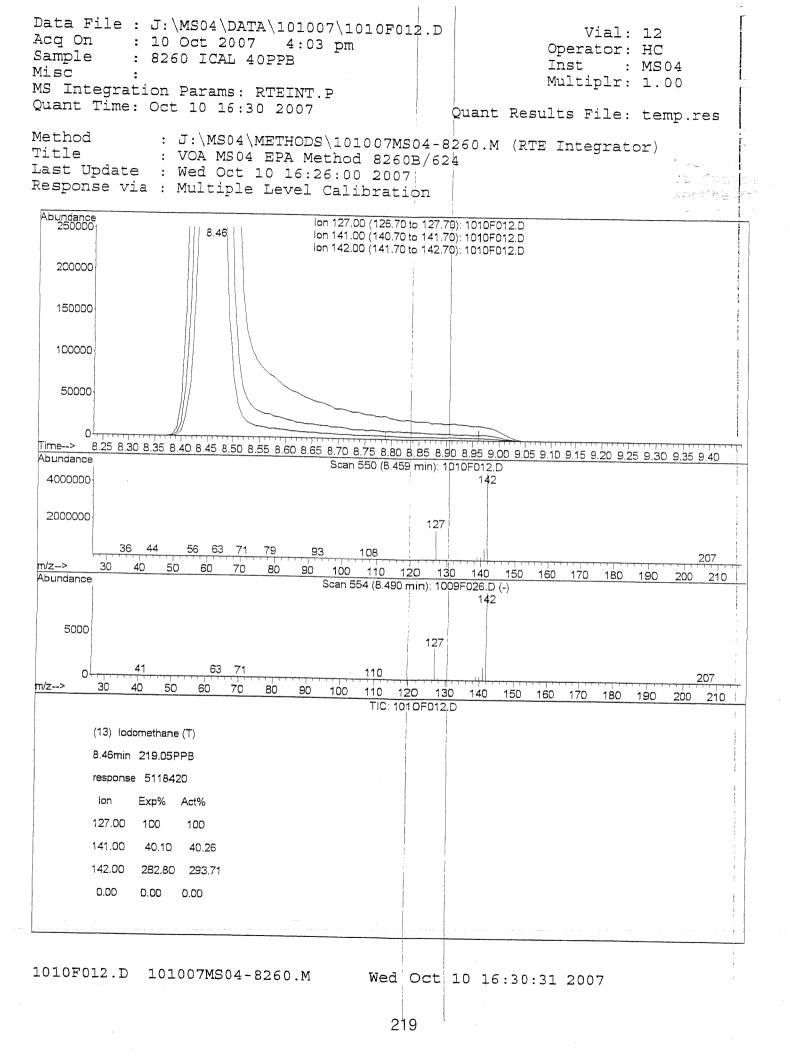


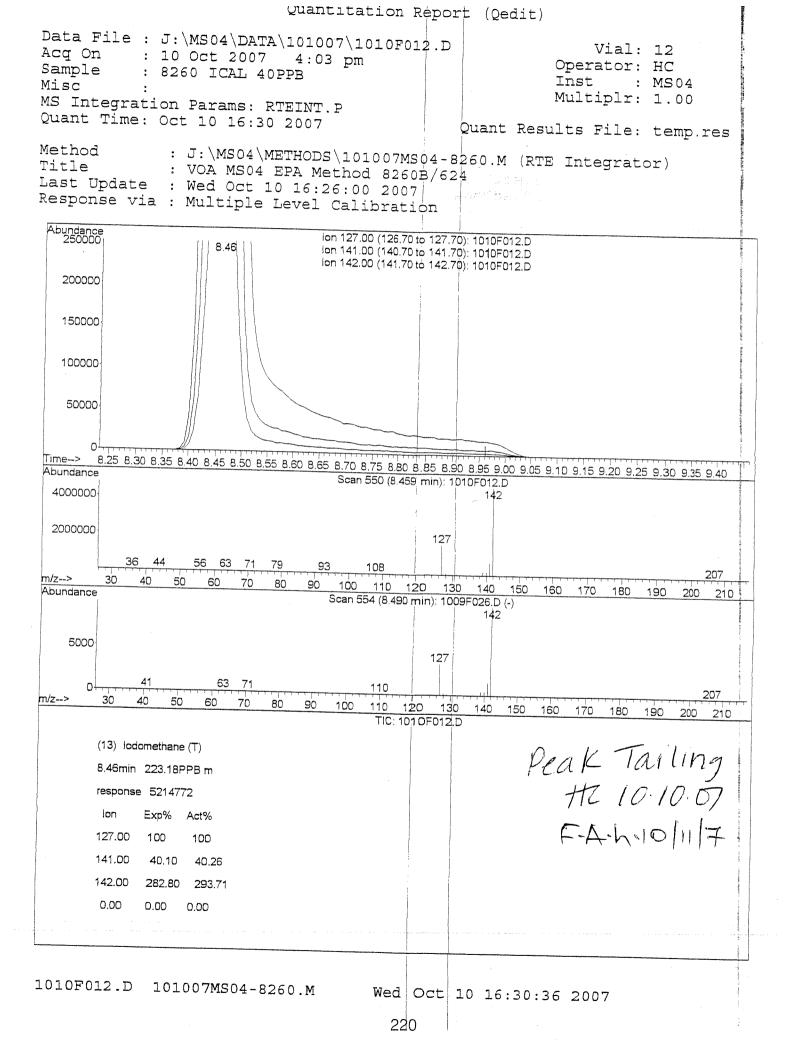
Samp Misc MS I Quan	ntegration Params: RTEINT.P t Time: Oct 10 16:04 2007	Operator: HC Inst : MS04 Multiplr: 1.00 Quant Results File: 101007MS04-1
Last Resp	od : J:\MS04\METHODS\101007MS0 e : VOA MS04 EPA Method 8260B Update : Wed Oct 10 16:02:47 2007 onse via : Initial Calibration	
Abundance 1.1e+07	TIC: 1010F011	D
1.05e+07		
1e+07		
9500000		與王 自 工 L, 私, Bidinitukub)触, Kinzene, I
9000000	7, T	4.1
8500000	ue (MIBr	मिश्रमित्रि, अन्तर्भाति, अन्तर्भाति, अन्तर्भाति, अन्तर्भाति, अन्तर्भाति, अन्तर्भाति, अन्तर्भाति, अन्तर्भाति, अ र.स.
8000000	4-Methyl-2-pentanone (MIBK), T	opane, I Bitholite Trataring or of the second secon
7500000	Methyl-2	
700000		
6500000	Chloroprene, T A-Methyl 2- ñ dthataekcMT A-Methyl 2-	T Isopropylbenzene, T Bomobenzene, T Both With the transferrene, T Both With the transferrene, T Butylbenzene, T Butylbenzene, T
6000000	Chloroprene, T i được	lsopropylbenzene, T Bebenzene, Tn-Prog Mykhbhdatet T Bildfäligt 1 enzene, T
5500000		Lisopropy Benderzere Burythenzene, T Burythenzene, T
5000000	lormethane, T មិនិងដំងសិទ្ធមាត់កូ T សិទាមិងដងសិទិម្នាតាe, T សិទាមិងដងសិទិម្នាតាe, T	2000-2001-2001-2001-2001-2001-2001-2001
4500000	lodomethane, T 	
4000000	er, T Dittation orderact	1,2-Onb/000000000000000000000000000000000000
3500000	methane, T T Consent of the second	1-Chlorp 1-Chlorp 1-Chlorp 1-2-Dichlorobenzene, 1 1,3,5-Trichlorobenzene, 1 Pzene, T
3000000-	e,T Bethreitpicket Bethreitpicket Bethreitpicket Michols, T Michols, T Michols, T Michols, T Michols, T Michols, T Michols, T Michols, T Michols, T Michols, Michols, T Michols, Michols, Michol	1,3,5-11 1,3,5-11 2,9,7 zene,
2500000	an the second se	actile (PDB) pane, T Linenkonsene, do L 1, 2 pane (DBCP), T 1, 3, 5-1 1, 3, 5-1 1, 3, 5-1 horobenzene, T horobenzene, T
2000000	Dichlorooffluoromethane, T Chloromethane, PT Chloromethane, T Chloroethane, PT TrichRolfohldBrollwennethane, T Ether, T Ether, T Accelone, H, frichbenhöllwennetherow T Ether, T Accelone, H, frichbenhöllwennetherow T Accelone, H, frichbenhöllwennetherow, T Accelone, H, frichbenhöllwennether, T Accelone, H, frichbenhöllwennetherow, T Accelone, T Accelone, H, frichbenhöllwennetherow, T Accelone, T Acce	1.2 Dit Joincethachto(PEUB)(19ne. T Bernotom. PT Bernotom. PT 1.2 Ditomo-3-chloropropane (DBCP), T 1.3.5-Tric Naphthalene, MT 1.2.3 Trichlorobenzene, T 1.2.3 Trichlorobenzene, T
1500000	Dichlorodittuoro Chloronethane I Vinyl Chloride, TrichBiothBit Ether, T Acrohol, I Attorne, J Attorne, J Attor	ib Holmoon aloum, P.1 (201, million 1, 2, 3, Trice 1, 2, 3, Trice
1000000	Dic Chlorodi Chlorodi Ether, T Ether, T Proptonitrile, T Proptonitrile, T Proptonitrile, T Proptonitrile, T Chlorodi dicedi 2:0010000000	1,2-D Iname11 Naph
500000		1,2-01
<u>Time> 4.00</u>	6.00 8.00 10.00 12.00 14.00 16.00	
1010F011	.D 101007MS04-8260.M Wed Oct 1	0 16:19:37 2007 Page 4
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Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 4:03 Sample : 8260 ICAL 40PPB Misc : MS Integration Params: RTEINT.F Quant Time: Oct 10 16:30:15 200	pm 7	Vial: 12 Operator: HC Inst : MS04 Multiplr: 1.00 Quant Results File: 101007MS04-8260
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met Last Update : Wed Oct 10 16:26 Response via : Initial Calibrat DataAcq Meth : 8260	·00 2005/02	2年 (四) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
Internal Standards	R.T. QIC	n Response Conc Units Dev(Min)
 Fluorobenzene Chlorobenzene-d5 1,4-Dichlorobenzene-d4 System Monitoring Compounds 	13.18 9	6 1893438 10.00 PPB 0.00 7 1320897 10.00 PPB 0.00 2 642144 10.00 PPB 0.00
41) Dibromofluoromethane Spiked Amount 10.000 47) 1,2-Dichloroethane-d4 Spiked Amount 10.000 61) Toluene-d8 Spiked Amount 10.000 82) 4-Bromofluorobenzene Spiked Amount 10.000	12.66 6 15.51 9	3 2064316 42.71 PPB 0 00 Recovery = 427.10% 0 00 5 1343457 39.54 PPB 0 00 Recovery = 395.40% 0 00 8 6322328 49.27 PPB 0 00 Recovery = 492.70% 0 00 5 2243069 44.56 PPB 0 00 Recovery = 445.60% 0 00
4) Vinyl Chloride	4.81 8 5.30 5 5.57 6 6.37 9 6.58 6 6.97 6 7.10 10	Qvalue 5 2359887 44.30 PPB 98 0 2970674 40.84 PPB 99 2 2665082 44 68 PPB 99
<pre>11) 1,1-Dichloroethene 12) Acetone 13) Iodomethane 14) Carbon Disulfide 15) Acrolein 17) 3-Cloro-1-propene 18) Acetonitrile 19) Methylene Chloride 20) tert-Butyl Alcohol 21) Methyl tert-Butyl Ether 22) trans-1,2-Dichloroethene 23) Hexane 24) 1,1-Dichloroethane 25) Vinyl Acetate 26) Acrylonitrile 27) Diisopropyl Ether 28) Chloroprene 29) tert-Butyl Ethyl Ether (#) = qualifier out of range (m) 1010F012.D 101007MS04-8260 M</pre>	7.62 59 8.07 151 8.12 96 8.17 43 8.46 127 8.61 76 8.61 76 8.70 41 8.70 41 8.99 84 9.04 59 9.41 73 9.47 96 9.41 73 9.47 96 9.89 57 10.22 63 10.21 86 9.40 53 10.21 45 10.38 88 10.86 59	1977121 46.33 PPB 99 1799277 39.24 PPB 99 4334418 40.20 PPB 99 2821716 41.81 PPB 100 1163077 42.00 PPB 99 1821975 42.10 PPB 98 1967970 43.96 PPB 99 3781683 775.74 PPB 99 3781683 775.74 PPB 99 3781683 775.74 PPB 99 3170742 841.54 PPB 99 3214852 39.60 PPB 99 3214852 39.60 PPB 99 3214852 39.60 PPB 96 260306 213.94 PPB 98 6100456 82.64 PPB 99 2460493 41.41 PPB 99 3837016 40.25 PPB 99 3837016 40.25 PPB 90 1352452 163.31 PPB 100 6051872<

Data File : J:\MS04\DATA\10100 Acq On : 10 Oct 2007 4:03 Sample : 8260 ICAL 40PPB Misc :	pm			Vial: 12 Dperator: HC Inst : MSO Aultiplr: 1.0	
MS Integration Params: RTEINT. Quant Time: Oct 10 16:30:15 20	P 07	Ç		ts File: 101	
Quant Method : J:\MS04\METHODS Title : VOA MS04 EPA Me Last Update : Wed Oct 10 16:20 Response via : Initial Calibra DataAcq Meth : 8260	EIIOU 8260	04-82	/	Integrator)	
Compound	R.T.		Pesponso	Cong Unit	
30) 2,2-Dichloropropane 31) Ethyl Acetate 32) cis-1 2-Dichloroethere		+ +		Conc Unit	
<pre>30) 2,2-Dichloropropane 31) Ethyl Acetate 32) cis-1,2-Dichloroethene 33) 2-Butanone 34) Propionitrile 35) Methacrylonitrile 36) Bromochloromethane 37) Chloroform 38) tert-butyl Formate 39) Tetrahydrofuran 40) 1,1,1-Trichloroethane 43) Isobutyl Alcohol 44) Carbon Tetrachloride 45) 1,1-Dichloropropene 46) tert-Amyl Methyl-ether 48) Benzene 49) 1,2-Dichloroethane 50) Trichloroethene 51) J.2-Dichloropropane 52) Methyl methacrylate 53) 1,2-Dichloropropane 54) 1,4-Dioxane 55) Dibromomethane 56) Bromodichloromethane 57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane 59) cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBH 62) Educatione 53) Educatione 54) 1,3-Dichloropropene 55) Dibromomethane 55) Cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBH 55) Dibromomethane 55) Cis-1,3-Dichloropropene 54) Cis-1,3-Dichloropropene 55) Cis-1,3-Cis-1,3</pre>	12.41 12.83 12.78 12.79 13.74 14.12 14.11 14.25 14.30 14.48 14.83 14.81	7 5 7 6 9 6 6 8 9 8 6 4 7	2983069 757884 8659149 1731016 2182769 609189 1993077 235822 987375 2281074 343009 822450 2827490	44.35 PPB 37.48 PPB 42.25 PPB 38.04 PPB 43.83 PPB 45.79 PPB 40.11 PPB 1706.99 PPB 38.94 PPB 40.31 PPB 40.69 PPB 200.49 PPB 43.54 PPB	100 # 99 9804249998 108924999840
<pre>62) Toluene 64) Ethyl methacrylate 65) n-Octane 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethene 69) 2-Hexanone 70) 1,3-Dichloropropane 71) Dibromochloromethane 72) 1,2-Dibromoethane (EDB) 73) 1-Chlorohexane 74) Chlorobenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane </pre>	15.61 15.89 15.62 15.86 16.14 16.37 16.39 16.38 16.70 16.90 17.34 17.47 17.56 17.55	1968553476975261 1031 1031 1131	5225361 1269269 1404960 2043059 1009873 1971893 1528270 2153105 1652537 1282913 1826362 5832482 3017918 1884633 	930.61 PPB 43.71 PPB 47.64 PPB 44.81 PPB 44.38 PPB 40.55 PPB 42.49 PPB 943.93 PPB 40.27 PPB 42.25 PPB 41.10 PPB 45.34 PPB 42.08 PPB 45.11 PPB 41.88 PPB	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
1010F012.D 101007MS04-8260.M	Wed C 217	Det 1	0 16:31:44		Page 2

Quantitati	on Report	(QT Reviewed)	
Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 4:03 p Sample : 8260 ICAL 40PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 16:30:15 2007	m	Operator: HC Inst : MSO Multiplr: 1.0 Quant Results File: 101	0
Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:26: Response via : Initial Calibratic DataAcq Meth : 8260	OG 8260B/62 00 2007	260.M (RTE Integrator) 4	
	R.T. QIO	n Response Conc Unit	Qvalue
<pre>77) m,p-Xylenes 78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 88) trans-1,3-Dichloro-2-Buten 89) 1,2,3-Trichloropropane 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 101) 1,2-Dichlorobenzene 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene 106) 1,2,3-Trichlorobenzene</pre>	18.17 10 18.18 10 18.47 17 18.57 10	3116480039.76PPB234390041.75PPB1134284246.95PPB22639341.95PPB32449240.17PPB681995843.33PPB681995843.33PPB5728276646.22PPB628635843.40PPB4177450845.68PPB5956183247.11PPB637112847.62PPB642859342.00PPB5437420840.10PPB437420840.10PPB5364793941.02PPB718616644.51PPB267535844.26PPB187142144.38PPB88283942.84PPB827657347.29PPB	98 98 99
(#) = gualification out of			
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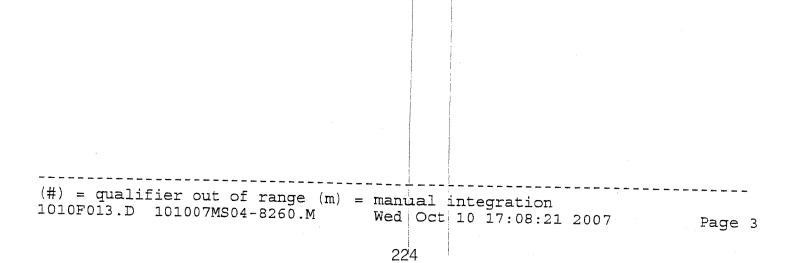


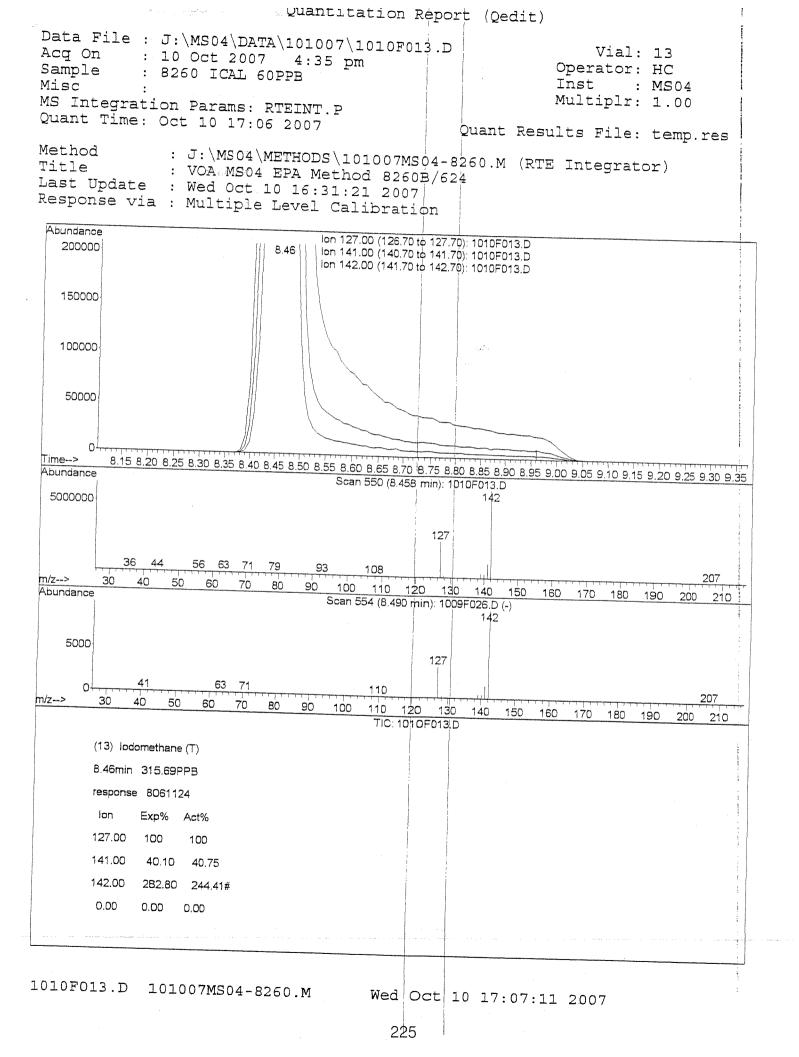
Data File ; J:\MS04\DATA\101007\1010F012 D Vial: 12 Acg OD to 2100 to 22007 4:03 pm Sample : 80260 ICAL 400 pp Misc : MS04 Misc : MS04 Misc : MS04 Misc : MS04 Misc : MS04 Misc : MS04 Multiplr: 1.00 Cuant Results File: 101007MS04-8 Multiplr: 1.00 Multiplr: 1.00 Mu
Quant Time: Oct 10 16:30 2007 Quant Results File: 101007MS04-8 Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Wed Oct 10 16:31:21 2007 Response via : Initial Calibration Title 101007052D 2:1e+07 Ise+07 1:8e+07 Ise+07 1:6e+07 Ise+07 1:8e+07 Ise+107
Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : V0A MS04 EPA Method 8260B/624 Last Update : Wed Oct 10 16:31:21 2007 Response via : Initial Calibration Abundance Tic:1010F012D 2.1e+07 1.8e+07 1.8e+07 1.8e+07 1.8e+07 1.5e+07 1.5e+07 1.1e+07 1.1e+07 1.1e+07 1.1e+07 1.1e+07 1.1e+07
Last Update : Wed Oct 10 16:31:21 2007 Response via : Initial Calibration Abundance 2:1e+07 2:e+07 1.8e+07 1.6e+07 1.6e+07 1.2e+07
1.9e+07 1.9e+07 1.9e+07
2.1e+07 2e+07 1.9e+07 1.8e+07 1.7e+07 1.6e+07 1.3e+07 1.2e+
1.7e+07 1.6e+07 1.5e+07 1.2
1.7e+07 1.6e+07 1.5e+07 1.2
1.7e+07 1.6e+07 1.5e+07 1.2
1.5e+07 1.4e+07 1.3e+07 1.2e+07 1.1e+07 1.1e+07
1.5e+07 1.4e+07 1.3e+07 1.2e+07 1.1e+07 1.1e+07
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1010F012.D 101007MS04-8260.M Wed Oct 10 16:31:45 2007 Page 4
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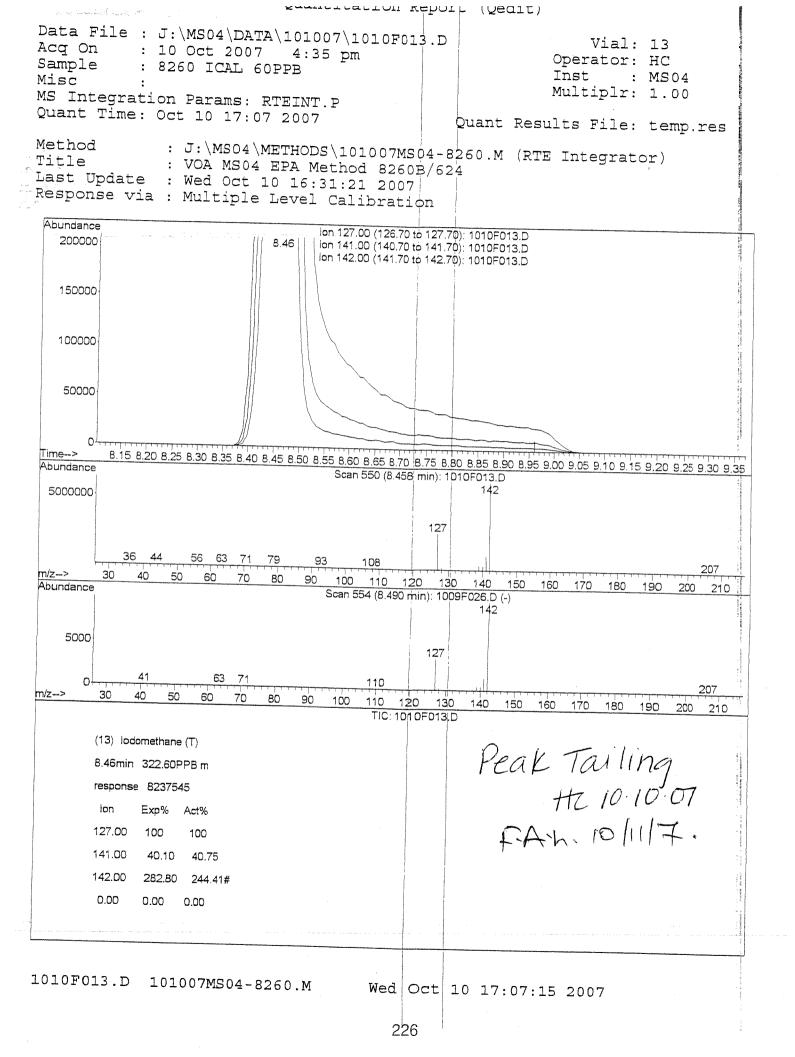
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Data File : J:\MS04\DATA\101007	1010501	2 -			Γ
ACQ OI : IU OCE 2007 A.35			. ,	Vial: 13 Operator: HC	
Sample : 8260 ICAL 60PPB Misc :	_			Inst : MS	04
			I	Multiplr: 1.	00
MS Integration Params: RTEINT.P Quant Time: Oct 10 17:06:54 200	-				
			Quant Resul	lts File: 10	1007MS04-8260
Quant Method : J:\MS04\METHODS\ Title : VOA MS04 EPA Met	101007MS	64-8	SOM (DOD		-
Title : VOA MS04 EPA Met	hod 8260;	B/624	100.M (RIE	integrator)	
mast upuale : wed or 10 16.31				L+ co	
Response via : Initial Calibrat. DataAcq Meth : 8260	ion			HZ 10,	007
				F.A.h.	
Internal Standards	R.T.	OIon	Response	Conc Unit	
1) 17					
1) Fluorobenzene 63) Chlorobenzene-d5	13.18	96	1971841	10.00 PPI	з 0.00
83) 1,4-Dichlorobenzene-d4	17.44	117	1346900	10.00 PPI 10.00 PPI 10.00 PPI	в 0,00
	20.07	152	642094	10.00 PPI	в 0,00
System Monitoring Compounds					st indexes a
41) Dibromofluoromethane	12.06	113	2586681	50.95 PPH	з 0.00
Spiked Amount 10.000 47) 1,2-Dichloroethane-d4		1	Recov	ery = 509	9.50%
Spiked Amount 10 000	12.66	65	1675430	47.42 PPE	в 0.00
61) Toluene-d8	15.51	98	Recov	$\begin{array}{rcl} & 50.95 & \text{PP} \\ & & 50.95 & \text{PP} \\ & & 50.95 & \text{PP} \\ & & 47.42 & \text{PP} \\ & & & 47.42 & \text{PP} \\ & & & & 57.42 & \text{PP} \\ & & & & 56.76 & \text{PP} \\ & & & & 56.76 & \text{PP} \\ & & & & 57.69 & \text{PP} \\ & & & & 53.69 & \text{PP} \end{array}$	1.20%
Spiked Amount 10.000			Recov	20.76 PPE erv = 567	B 0.00
82) 4-Bromofluorobenzene Spiked Amount 10.000	18.78	95	2795257	53.69 PPE	3 0.00
Spined Amount 10.000			Recov	ery = 536	5.90%
Target Compounds					
2) Dichlorodifluoromethane	4.81	85	3687921	65.69 PPE	Qvalue
3) Chloromethane	4.81 5.30 5.57 6.36 6.58	5 þ	4649276	61.22 PPP	
4) Vinyl Chloride 5) Bromomethane	5.57	62	4189727	66.58 PPE	
6) Chloroethane	6.36	94 64	3212518	70.89 PPB	100
7) Dichlorofluoromethane	6.96	0,7	2785069 6684355	58.47 PPB	
8) Trichlorofluoromethane	7.10				
9) Ether 10) Trichlorotrifluoroethane	7.62	59	1815988	62.58 PPB	
11) 1,1-Dichloroethene	8.07	151		61.77 PPB	.96
12) Acetone		96 43		64.85 PPB	
13) Iodomethane	8.46			1556.25 PPB 322.60 PPB	99
14) Carbon Disulfide	8.61	76	13011300	65.11 PPB	99
15) Acrolein 17) 3-Cloro-1-propene	7.91	56	5003725	1267.00 PPB	.98
18) Acetonitrile	8.76	41	5110969	60.53 PPB	00
18) Acetonitrile 19) Methylene Chloride	8.70 8.98	41 84	6930379	2366.18 PPB	
20) tert-Butyl Alcohol	9.05			35.14 PPB 322.86 PPB	
21) Methyl tert-Butyl Ether	0 47	7B	9580536	124.16 PPB	99
22) trans-1,2-Dichloroethene 23) Hexane	9.47	96	3823536	61.55 PPB	98
24) 1,1-Dichloroethane	9.88 10.22	57	4751712	68.82 PPB	97
25) Vinvl Acetate	10.22	63 86	2745531 814274	59.84 PPB 130.52 PPB	
26) Acrylonitrile	9.40	5B	2105458	243.50 PPB	98
27) Diisopropyl Ether 28) Chloroprene	10.20	45	9489097	61 47 DDB	00
29) tert-Butyl Ethyl Ether	10.38	88	11409201	277 31 DDD	00
	10.00	59	6897928	64.20 PPB	98
(#) = qualifier out of range (m) 1010F013.D 101007MS04-8260 M	= manua	l in	tegration		
1010F013.D 101007MS04-8260.M	Wed O	ct 1	0 17:08:20	2007	Page 1
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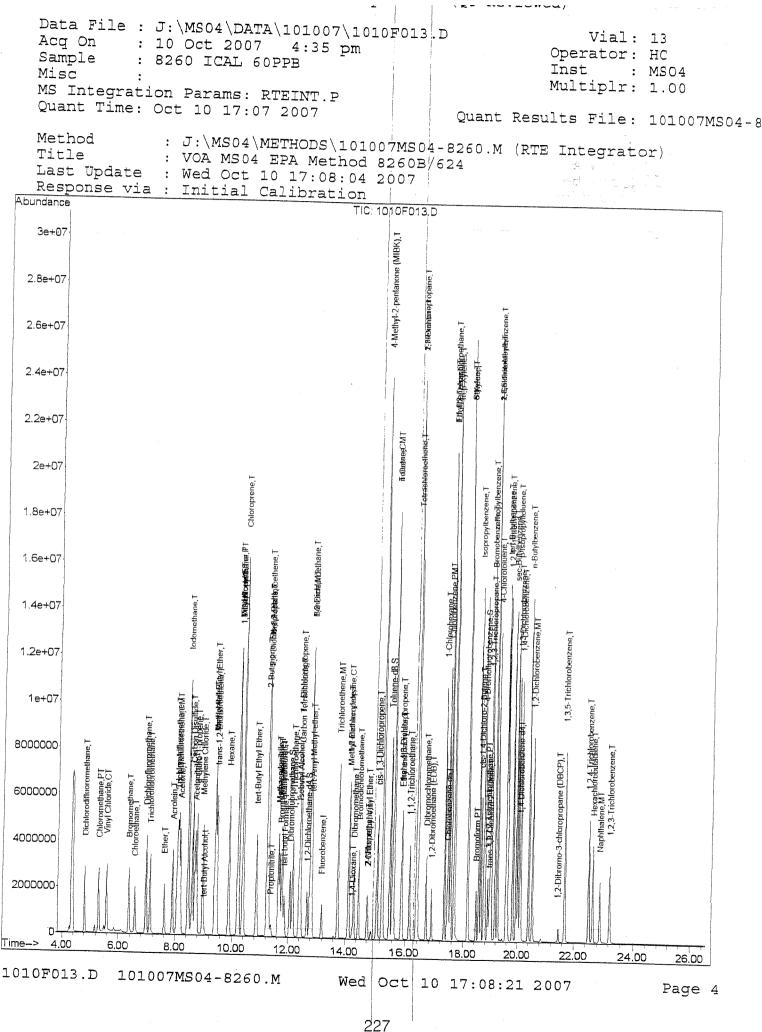
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Data File : J:\MS04\DATA\101007 Acq On : 10 Oct 2007 4:35 Sample : 8260 ICAL 60PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 17:06:54 200	pm 7		Quant Resu	Vial Operator Inst Multiplr lts File	: HC : MSO : 1.0 : 101	0	04-8260
Quant Method : J:\MS04\METHODS\; Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 16:31 Response via : Initial Calibrat; DataAcq Meth : 8260	.21 2007	04-82		Integra	tor)		
Compound	R.T.	QIon	Response	e Conc I	Init		
<pre>30) 2,2-Dichloropropane 31) Ethyl Acetate 32) cis-1,2-Dichloroethene 33) 2-Butanone 34) Propionitrile 35) Methacrylonitrile 36) Bromochloromethane 37) Chloroform 38) tert-butyl Formate 39) Tetrahydrofuran 40) 1,1,1-Trichloroethane 43) Isobutyl Alcohol 44) Carbon Tetrachloride 45) 1,1-Dichloropropene 46) tert-Amyl Methyl-ether 48) Benzene 49) 1,2-Dichloroethane 50) Trichloroethane 51) Dibromomethane 52) Methyl methacrylate 53) 1,2-Dichloropropane 54) 1,4-Dioxane 55) Dibromomethane 56) Bromodichloromethane 57) 2-Chloroethyl Vinyl Ether 58) 2-Nitropropane 59) cis-1,3-Dichloropropene 60) 4-Methyl-2-pentanone (MIBK 62) Toluene 64) Ethyl methacrylate 65) n-Octane 66) trans-1,3-Dichloropropene 67) 1,1,2-Trichloroethane 68) Tetrachloroethane 71) Dibromochloromethane 72) 1,2-Dibromoethane 73) 1-Chlorobexane 74) Chlorobenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane 71) 0 Dibromochloromethane 72) 1,1,2-Tetrachloroethane 73) 1-Chlorobenzene 74) Chlorobenzene 75) Ethylbenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane 77) 2-Dichloroethane 78) 1,1,2-Tetrachloroethane 79) 1,1,2-Tetrachloroethane 70) 1,1,2-Tetrachloroethane 71) 1,1,2-Tetrachloroethane 73) 2-Dichloroethane 74) Chlorobenzene 75) Ethylbenzene 75) Ethylbenzene 76) 1,1,1,2-Tetrachloroethane 77) 2-Dichloroethane 78) 2-Nitropropane 79) 2-Dichloroethane 70) 1,1,2-Tetrachloroethane 71) 2-Dibromoethane 72) 1,2-Dibromoethane 73) 2-Dichloroethane 74) Chlorobenzene 75) Ethylbenzene 75) Ethy</pre>	$\begin{array}{c} 11.28\\ 11.26\\ 11.27\\ 11.23\\ 11.38\\ 11.65\\ 11.71\\ 11.78\\ 11.86\\ 11.77\\ 12.16\\ 12.38\\ 12.44\\ 12.42\\ 12.83\\ 12.78\\ 12.79\\ 13.74\\ 14.13\\ 14.11\\ 14.26\\ 14.30\\ 15.11\\ 15.28\\ 15.61\\ 15.88\\ 15.61\\ 15.88\\ 15.62\\ 15.86\\ 16.14\\ 16.37\\ 16.40\\ 16.38\\ 15.62\\ 15.86\\ 16.14\\ 16.37\\ 16.40\\ 16.38\\ 16.70\\ 16.38\\ 16.70\\ 16.38\\ 16.70\\ 16.38\\ 16.70\\ 16.38\\ 16.70\\ 16.38\\ 16.70\\ 16.38\\ 16.70\\ 17.34\\ 17.47\\ 17.56\\ 17.55\\ 17$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4054323 595540 3850562 3316512 665024 2353839 1691074 5428489 1392260 280653 4198925 1291164 3635504 4626253 1150319 13553536 2628975 3354867 956885 3097129 375087 1513418 3512601 641230 1279550 4405119 4613187 8041285 1983814 2171302 3177495 1549674 3013968 3073067 3306413 2547615 1966394 2823966 8933318 4625088 2887171	59.40 241.97 60.35 1736.30 242.13 257.63 55.58 58.46 71.98 52.25 62.16 2454.56 63.16 55.12 63.16 55.12 63.11 55.78 64.01 67.67 59.84 2572.69 57.51 59.54 72.84 299.42 64.50 1791.67 63.93 71.08 66.91 66.88 60.93 63.20 1824.95 63.20 1825.59	PPB PPBB PPBB <	#	- 998079999999999999999999999999999999999
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			INT VENTE	weu)			
Data File : J:\MS04\DATA\101007\1010F013.D Acq On : 10 Oct 2007 4:35 pm Sample : 8260 ICAL 60PPB Misc : MS Integration Params: RTEINT.P Quant Time: Oct 10 17:06:54 2007 Quant Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Wed Oct 10 16:31:21 2007 Response via : Initial Calibration DataAcq Meth : 8260							
Compound	R.T.	QIon	Response	Conc Unit	Qvalue		
77 m m V_{r-1}	17.68 18.17 18.18 18.47 18.57 18.64 19.00 19.02 19.02 18.95 18.95 18.95 18.98 19.18 19.29 19.57 19.62 19.81 19.94 20.01 20.40 20.40 21.46	10007083673001514659661670005 19093001144945882 19093001144945882 1111111111111122	$\begin{array}{c} 11877313\\ 5438423\\ 9188346\\ 1294552\\ 13722775\\ 1559444\\ 1767808\\ 3569634\\ 14945911\\ 350805\\ 485746\\ 10475491\\ 11147797\\ 9665345\\ 2691402\\ 10943786\\ 13833699\\ 12520780\\ 6756319\\ 6664473\\ 11072895\\ 5544953\\ 283215\\ 4069189\\ 2841390\\ \end{array}$	135.41 PPB 67.01 PPB 64.63 PPB 64.63 PPB 66.27 PPB 292.62 PPB 60.40 PPB 63.29 PPB 60.55 PPB 64.48 PPB 60.10 PPB 65.95 PPB 65.95 PPB 65.95 PPB 66.11 PPB 66.11 PPB 66.68 PPB 66.68 PPB 63.72 PPB 63.72 PPB 61.08 PPB 61.08 PPB 62.19 PPB 66.47 PPB 66.47 PPB 66.47 PPB 66.47 PPB 66.47 PPB 66.47 PPB 66.47 PPB	# 56 97 98 98 95 95 99 99 98		









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Data F	ile : J:\MS04\DATA\:					ſ
Acq On	: 10 Oct 2007	LOTOO/(TOIOFC	17.D		Vial: 17	
sampre	: 8260 ICAL 2.01	PPB(P)		Ol	perator: HC	
Misc	:			II	nge : MS(
MS Inte	gration Params: RTH	INT.P		M	ltiplr: 1.0	0 0
Quant 1	Time: Oct 11 07:08:4	1 2007		Quant Result	s File. 10-	L007MS04-8260
Ouant M	lethod · J·\MSAA\MPT					LUU/MB04-8260
Title	Method : J:\MS04\MET : VOA MS04 EP	A Method Soc	S04-82	60.M RTE	Integrator)	
Last Up	date : Wed Oct 10	17.08.04 200	1187672			
Respons	e via : Initial Cal	ibration			1-1-117	11.07
DataAcq	Meth : 8260				HTC 10.	
Intern	al Standards	_			FA·h	TOMIT
		R.T.	QIOn	Response	Conc Units	Dev (Min)
1) F	luorobenzene	13.18	96	1790834	10 000000	
63) C	hlorobenzene-d5	מא לי ד	117	1246965	10.00 PPB 10.00 PPB	
83) l	,4-Dichlorobenzene-	14 20,07	152	594423	10.00 PPB	
Svatem	Monitoring Compound					
41) D	ibromofluoromethane			V and a	3	
Spike	ed Amount 10.000	12.06	113	355532	7.70 PPB	0.00
47) l	,2-Dichloroethane-d4	12.66	65	Recove	ry = 77	.00%
Spike	ed Amount 10.000		65	231572	7.26 PPR	
	oluene-d8	15.51	98	1060205	ry = 72	and the second
Spike	ed Amount 10.000			Recove	8.36 PPB	0.00
82) 4- Spike	Bromofluorobenzen ed Amount 10,000	18.78	95	375016	-y - 33 907 7	.60%
PDTK6	ed Amount 10,000			Recove	ry = 83 7.72 PpB ry = 77	0.00
Target	Compounds					. 200
2) Di	chlorodifluorometha	ne 4.81	0			Qvalue
3) Ch	loromethane	5.30		57204 97485	1.11 PPB	95
4) Vi	nyl Chloride	5.57		97485 69269	1.41 PPB	100
5) Br	omomethate	6.36		55995	1.20 PPB 1.33 PPB	97
0) (0 10	loroethane	6.58	64	57824	1.34 PPB	99
8) Tr	chlorofluoromethane ichlorofluoromethan			139142	1.36 PPB	98
9) Et	her		101	68586	1.07 PPB	100
10) Tr	i hlorotrifluoroeth	7.62 ane 8.07	59	50894	1.92 PPB	0.0
11) 1 _	inlorotrifluoroeth -Dichloroethene etone	8.07	TDT ar	45966	1.11 PPB	93
12) C	etone		4 B	369162	1.20 PPB 80.56 PPB	
13) IO	domethane		127	125968m	5 22 PPB	96
5 70	rbon Disulfide	8.60	76		5.23 PPB 1.24 PPB	n n
17) AC.	rolein Cloro-1-propens	7.91	56	140761	39.00 PPB	98 96
18) Ac	etonitrile	8.75	41	111476m	1.45 PPB	
19) Met	Cloro-1-propene etonitrile thylene Chloride rt-Butyl Alcohol	8.70 P 00	41	210941	79.42 PPB	99
20) te:	rt-Butyl Alcohol hyl tert-Butyl Ethe ans-1,2-Dichloroethe	9 04	54 50	113157 12515	1.33 PPB	96
21) Met	hyl tert-Butyl Ethe	9.40		المستعد المستعد	10.63 PPB 3.88 PPB	79
22) tra	ans-1,2-Dichlorcethe	ne 9.46	96	79041	3.88 PPB 1.40 PPB	
		9.88	57	82895	130 000	92
25) Vir	L-Dichloroethane	10.21	63	138854		
26) Acr	lyl Acetate Ylonitrile	10.20	86	21773	3 80 000	# 93
27) Dii	sopropyl Ether	9.40	55	63397		" 95 94
28) Ch1	Oronrono istant	10.20 10.38	45	251112		
29) ter		10.38	50 50	181564 182102	1.79 PPB 4.78 PPB	
				1021U2	1.85 PPB	97
(#) = qu	alifier out of rang		al int	egration		
TOTOFULY	.D 101007MS04-8260	.M Thu C	Dat 11	07:11:00 2	2007	Page 1
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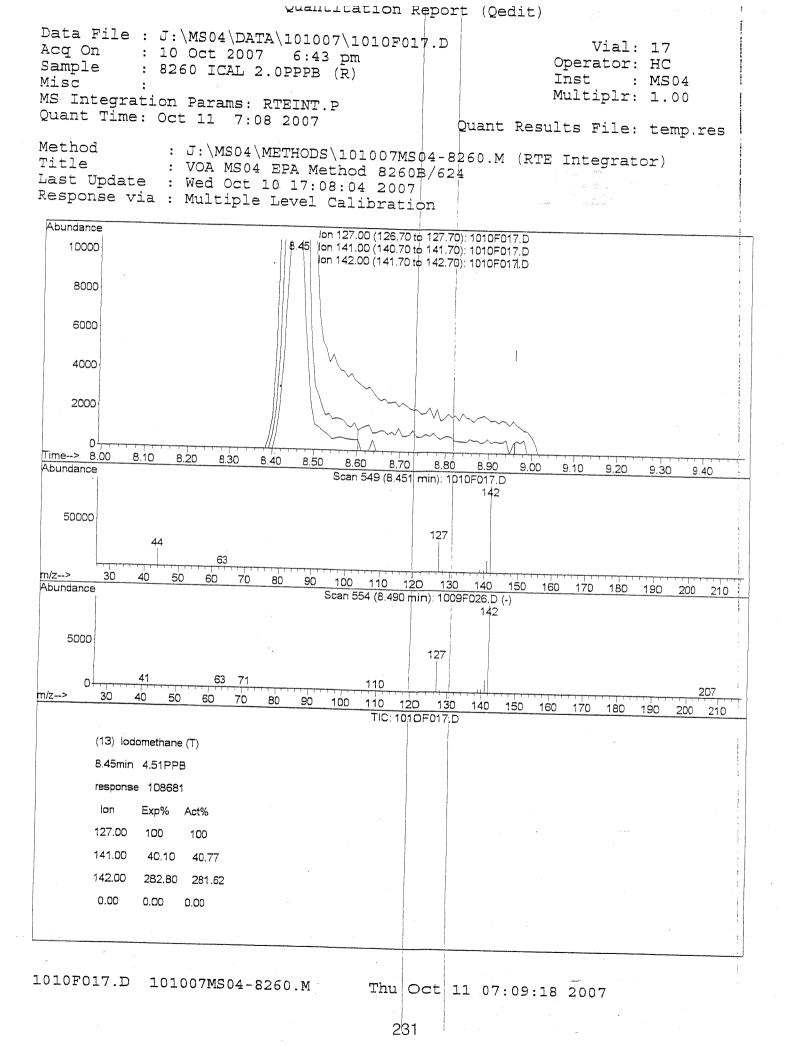
	керо	rt	(QT Review	ved)	
Data File : J:\MS04\DATA\101007\10	10701		f ,	,	
1009011; 100012007 6:43 mm	TOF.01.	7.D		Vial: 17	- 1100 - 11
Sample : 8260 ICAL 2.0PPPB (R)				perator: HC	
MISC :				nst : MS04	
MS Integration Params: RTEINT.P			141	ltiplr: 1.00	
Quant Time: Oct 11 07:08:41 2007		Q	uant Result	s File: 101007M	150-8260
Quant Method : J. MS04 METHODA 101					
Quant Method : J:\MS04\METHODS\1010 Title : VOA MS04 EPA Method	007MS	D4-820	50.M (RTE I	ntegrator)	
Last Update Wed Oct 10 17.00 of	0200	8/624			
Response via : initial Calibration	2007				
DataAcq Meth : 8260					
33** 6 ³ **			e e e		
Compound	·				
	R.T.	QIon	Response	Conc Unit Qv	alle
30) 2,2-Dichloropropane	1.28		A second s		
	1.26	70	78509 17982		93
32) cis-1,2-Dichloroethene 1	1.26	96	96012	8.04 PPB 1.66 PPB	
24 Drop i an i de t	1.23	72	145921	83.41 PPB	199 9
35) Mothermal	1.38	54	19726	7.90 PPB	92
	1.64	67	65930	7.88 PPB	94
37) Chloroform	1.70	05.5	50773	1.85-PPB-	99
38) tert-butyl Formate	1.86	50	136100 30945 12610 77572	1.62 PPB	98
39) Tetrahydrofuran	1.77	42	30945 12610	1.72 PPB	22
		J /	77573	2.64 PPB 1.26 PPB	93
	4.38	4B	39194	81.77 PPB	
45) 1,1-Dichloropropene	2.43	717	61045		94
46) tert-Amyl Methyl-ether	2.41	75	79550	1.22 PPB	25
48) Benzene	2.82	55	79550 36164 295911 78163 69392 23919	1.93 PPB	- 98
49) 1,2-Dichloroethane	2.78	62	295911 78163	1.51 PPB	8
50) Trichloroethene	3.73	95	69392	1.84 PPB 1.45 PPB	2 18
52) Methyl methacrylate 14 53) 1,2-Dichloropropane 14	1.12	69	23919	1.83 PPB	
54) 1 4 Diaman	E. 11	63	81021	1.72 PPB	
(55) (5)	.25	88	9385	A STATE OF THE OWNER	18
56) Bromodichloromethane	.30 .48	93 83	44160	1.86 PPB	5
57) 2-Chloroethyl Vinyl Ether	. 82	63 63	91646	1.71 PPB	9
58) 2-Nitropropane	.81	i	35186	1.55 PPB 9.07 PPB	2. 4.
59/ CIS-I, 3-Dichloropropene		75	111781	1.79 PPB	
62) Tolucio ponocione (MIDA 15	.27	100	200237	84.61 PPB	
(54) There is a set (56)	.61	92	178158	1.55 PPB	
65) n-Octane 11	.89 .62	69 85	48363	1.83 PPB	
00) LIANS-1,3-DICHLOROPROPENE 15	. 86		40068	-1.32 PPB	
6/) 1,1,2-Trichloroethane 16.	.14	4 1	44590		
68) 2 Herrin 16.	.3.6			1.33 PPB	
70) 1 2 Diablements		57	134218	84.90 PPB	
71) Dibromochloromethane 16.			95981	1.90 PPB	9:9
72) 1,2-Dibromoethane (EDB) 16	. 70 1 89 1	129	68246		
(3) 1-Chlorohevane			55605 52203	1.88 PPB	
74) Chlorobenzene	47 1		223605	1-69 DDD	
		_06	97769	1.50 PDR	
76) 1,1,1,2-Tetrachloroethane 17.	54 1	31		1.72 PPB	
(#) = qualifier out of range (m) = m 1010F017.D 101007MS04-8260 M					
1010F017.D $101007MS04-8260.M$		_ inte	gration		
		·	07:11:00 2	0.07	
	229				
				an a	

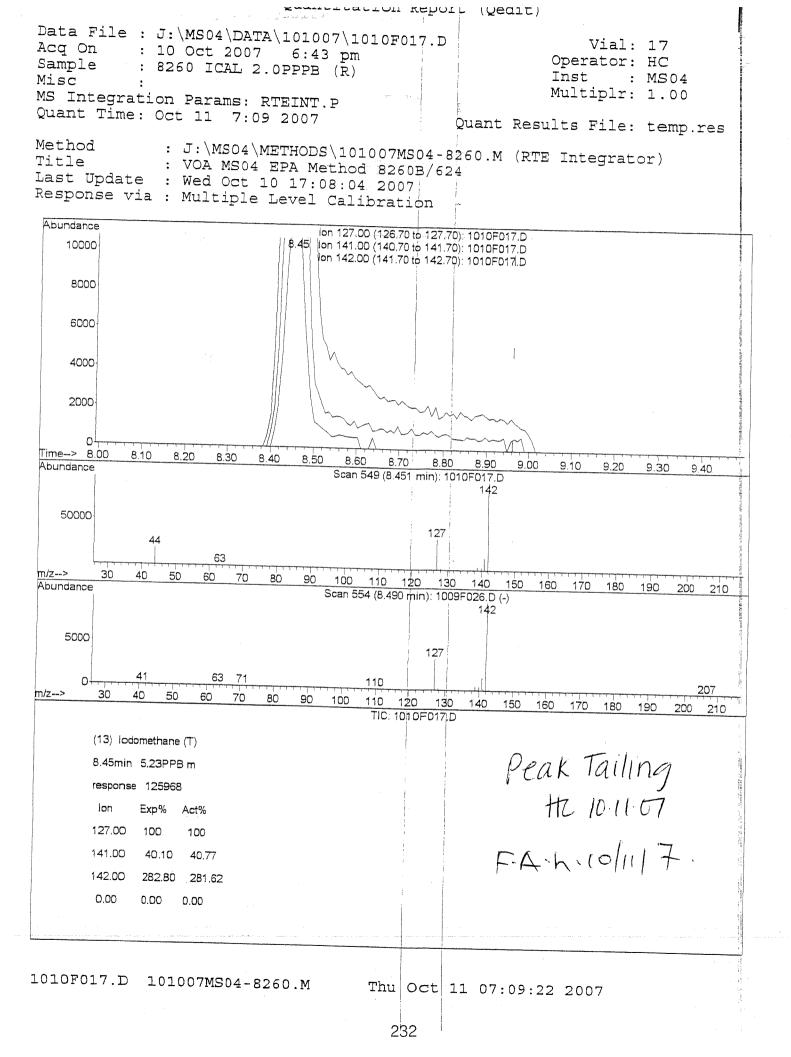
	Quantitati	on Repo	ort	(QT Revie	wed)	and the state of the state of the
	Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 6:43 p Sample : 8260 ICAL 2.0PPPB (R Misc : MS Integration Params: RTEINT.P Quant Time: Oct 11 07:08:41 2007	om _)		Li Mi	Vial: 17 perator: HC nst : MS04 ultiplr: 1.00)
	Quant Method : J.\MS04\METHODA 1	0100780		· · · · · · · · · ·	ts File: 1010	07MS04-8260
t	Title : VOA MS04 EPA Meth Last Update : Wed Oct 10 17:08: Response via : Initial Calibrati DataAcq Meth : 8260	0a 8260 04 2007		260.M (RTE . 1	Integrator)	ت المراجع المراحع المراحم المراحم المراحم المراحم المراحم المراحم المماع المراحم المراحم المراحم المراحم المراحم المراحم المراحم المراحم المراحم المراحم المماع المماع الماع
	Compound	R.T.	QIOT	Response	Conc Unit	Qvalue
	<pre>77) m,p-Xylenes 78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 88) trans-1,3-Dichloro-2-Buten 89) 1,2,3-Trichloropropane 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 101) 1,2-Dibromo-3-chloropropan 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene 106) 1,2,3-Trichlorobenzene</pre>	17.68 18.17 18.18 18.47 18.57 18.64 18.89 18.99 19.02 18.95 18.97 19.17 19.19 19.28 19.57 19.62 19.81 19.94	1004368861 1004368861 1088595015145 190935 190935 1015145 10915145	$\begin{array}{c} 253108\\ 126782\\ 206642\\ 34490\\ 280983\\ 34660\\ 53386\\ 96025\\ 335002\\ 9347\\ 14195\\ 240523\\ 230975\\ 226272\\ 54347\\ 239021\\ 268681\\ 240307\end{array}$	3.07 PPB 1.67 PPB 1.67 PPB 1.84 PPB 1.45 PPB 6.86 PPB 1.97 PPB	100 100 98 96 100 92 98 93
						an a

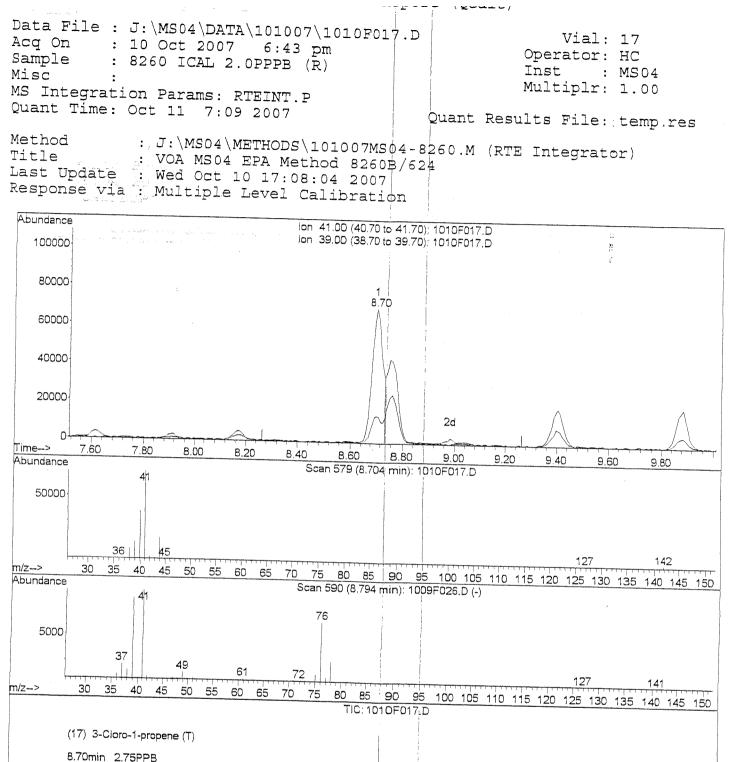
(#) = qualifier out of range (m) = manual integration 1010F017.D 101007MS04-8260.M Thu Oct 11 07:11:01 2007

Page

3







response 210941 Ion Exp% Act%

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57.90

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1010F017.D 101007MS04-8260.M

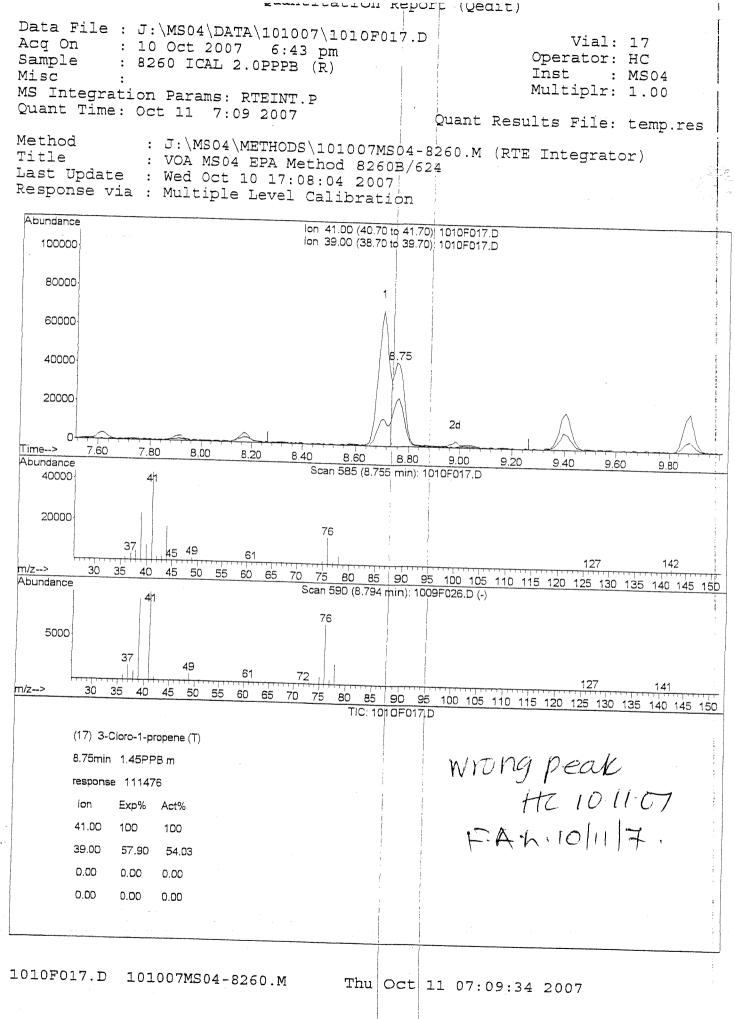
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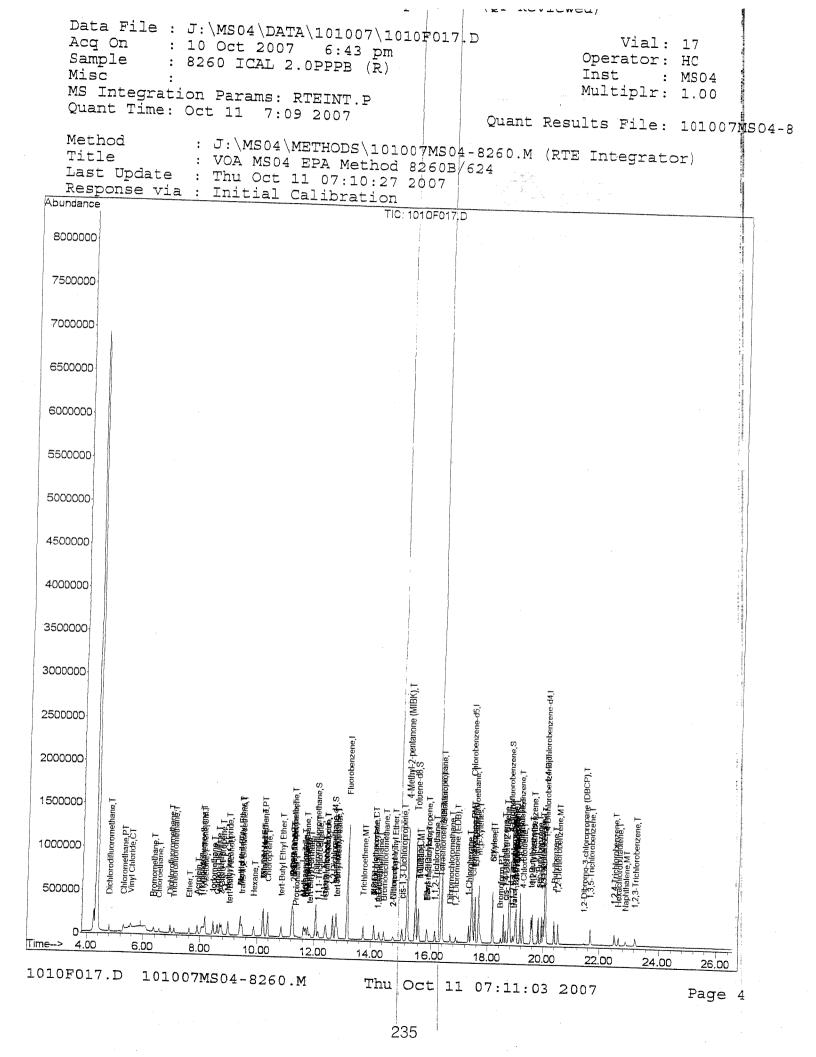
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Thu Oct 11 07:09:29 2007

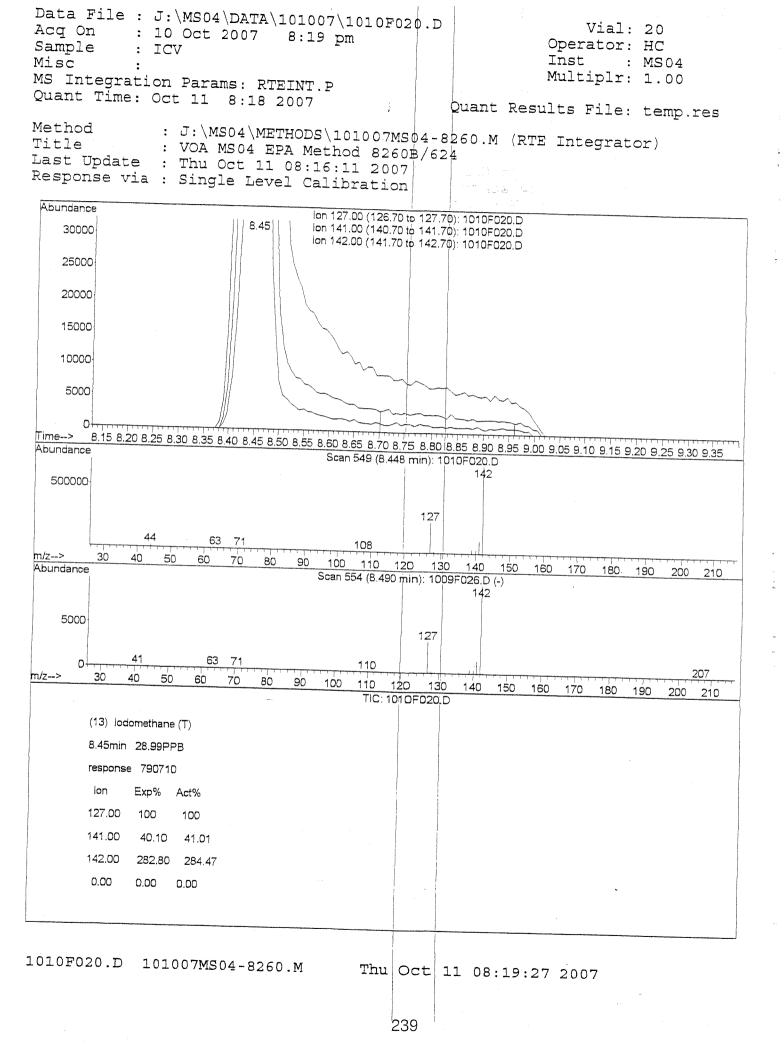


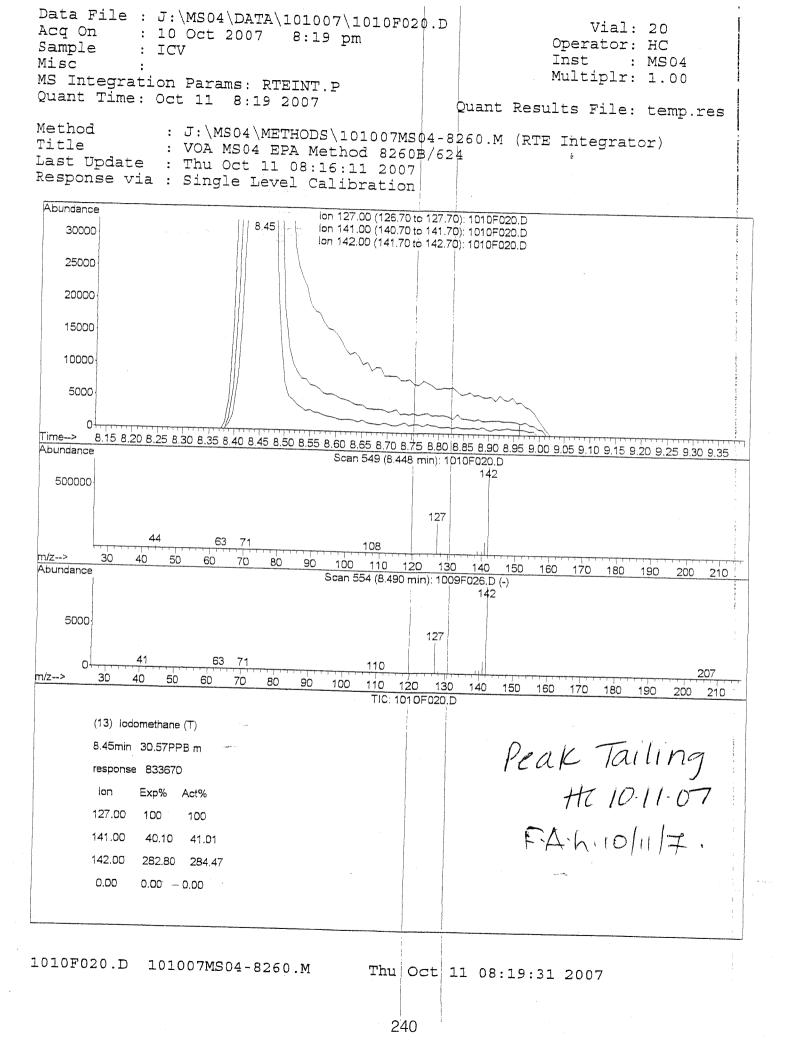


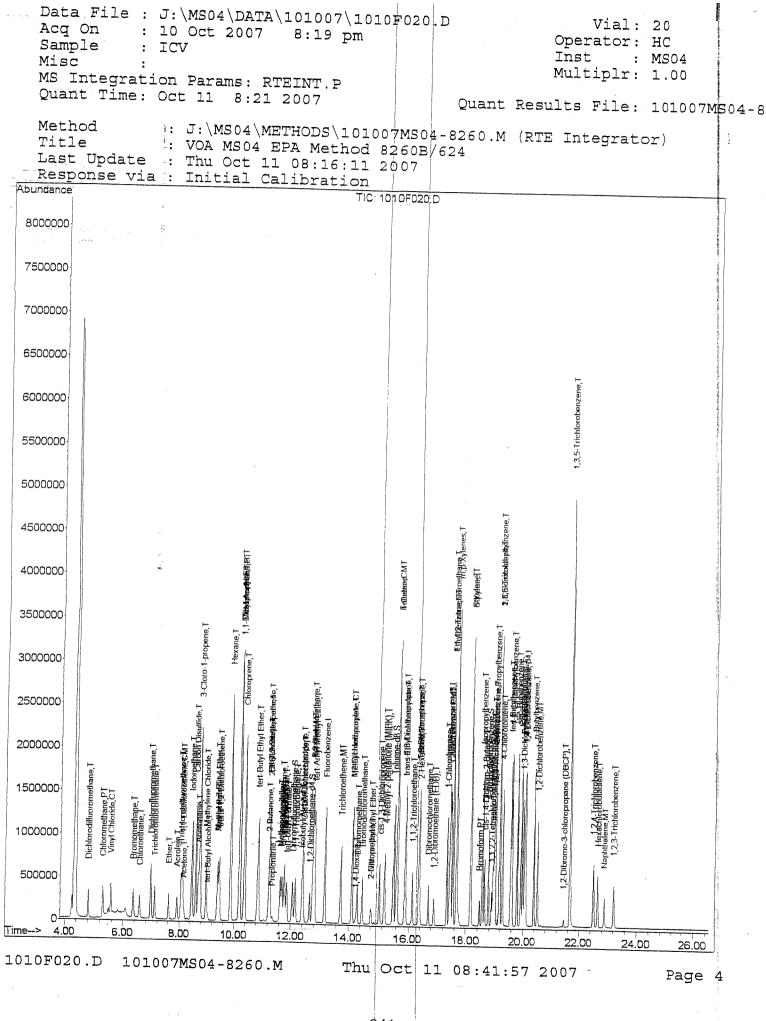
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pm			VIAL: 20	
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		- P	Multinlr. 1 /) <u>~</u>
		Quant Resul	lts File: 103	L007MS04-82
101007MS	04-82	260.M (RTE	Integrator)	
		±		
ion			the in 11.1	\sim
A.			FA LIC	
R.T.	QIon	l Response	Conc Units	Dev(Min)
	<u>+</u>			
13.17 17 AD	96	1815180	10.00 PPB	0.00
1/.43 20 07		1272548	10.00 PPB	-0.01
20.0/	15K	613044	10.00 PPB	0.00
12.05	113	432215	9.07 PPB	-0 01
10 -		Recov	erv - ao	700.
		295305	9.10 PPR	0 00
15 50		Recove	ery = 91	.00%
10.00	98	1261426	9.38 PPB	-0.01
18.78	95	Kecove	ery = 93	.80%
		Recove	J.26 PPB erv = 90	0.00 60%
			-1 - 24	. 00%
4 01	0-	40.000	_	Qvalue
7.01 5.00	85 E h	426299	7.94 PPB	98
5.57	50 62	2/2547 50/222	8.24 PPB	100
6.36	94	363485	8 01 PPB	99
6.57	64	360771	8 30 PPB	99
6.95	67	956002		55
7.10	101	473764		99 99
7.61	59	244000		
0.06	151	207050		
	46	789120		
8.17 8 AF	4 B	219769	46 69 000	
8 60	141/	833670m	תחת כם גנ	
7.91	, p 5 K	2/90951 350001	15.12 PPB	100
		2292207 2292207	96.U2 PPB	99
8.70	41	748260	277 02 PPB	
8.98	i	520314	2//.U3 PPB	
9.04	1	112020	92.49 DDD	
9.40	7B	656424	9 20 DDB	
9.46	96	460875 -	8.08 PPB	99
	57	2000074	30.79 PPB	99
	63			
9.40	00	252585	43 30 000	# 0-
		220022	37.73 PPR	07
10 201	- T D	40399403	18 21 000	00
10.20	20	1 4 0 7 7 4 4		
10.37	υu			98
10.37 10.85	59	1838218	36.27 PPB 18.46 PPB	98 98
10.37 10.85 	59 l int	1838218 	36.27 PPB 18.46 PPB	98
10.37 10.85 	59 l int	1838218	36.27 PPB 18.46 PPB	98
10.37 10.85 	59 l int ct 11	1838218 	36.27 PPB 18.46 PPB	98 98
	pm 07 101007MS hod 8260 11 2007 ion R.T. 13.17 17.43 20.07 12.05 12.66 15.50 18.78 4.81 5.29 5.57 6.36 6.57 6.95 7.10 7.61 8.06 8.11 8.17 8.45 8.60 7.91 8.76 8.70 8.98 9.04 9.40 9.21 10.20	101007MS04-82 hod 8260B/62 :11 2007 ion R.T. QIOT 13.17 96 17.43 117 20.07 152 12.05 113 12.66 65 15.50 98 18.78 95 4.81 85 5.29 50 5.57 62 6.36 94 6.57 67 7.10 101 7.61 59 8.06 151 8.11 96 8.17 43 8.60 76 7.91 56 8.76 41 8.70 41 8.98 84 9.04 59 9.40 78 9.40 78 9.40 78 9.40 78 9.40 78 9.40 96 9.40 96	pm 0 07 Quant Result 101007MS04-8260.M (RTE hod 8260B/624 :11 2007 ion R.T. QIon Response 13.17 96 1815180 17.43 117 1272548 20.07 152 613044 12.05 113 432215 Recov 12.66 65 295305 Recov 15.50 98 1261426 Recov 18.78 95 467996 Recov 195 363485 6.57 62 504322 6.36 94 363485 6.57 64 360771 6.95 67 956002 7.10 101 473764 7.61 59 244090 8.60 76 2790951 7.91 56 352381	pm Operator: HC Inst : MSG Multiplr: 1.0 07 Quant Results File: 101 101007MS04-8260.M (RTE Integrator) hod 8260B/624 :11 2007 ion 13.17 96 13.17 96 13.17 96 13.17 96 13.17 96 12.05 113 432215 9.07 98 20.07 152 613044 10.00 12.05 113 432215 9.07 12.66 65 29 12.66 65 98 1261426 9.38 95 95 95 95 95 95 101 4.81 85 95

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Data Acr	File : J:\MS04\DATA\101007	VLOIOFO	20.D	: • •	Vial: 20	
acy	On : 10 Oct 2007 8:19 le : ICV	pm			perator: HC	
Misc					inst : MSO	4
					ultiplr: 1.0	0
	ntegration Params: RTEINT.F t Time: Oct 11 08:18:08 200) 	Ľ.			ł
			ł	Quant Resul	ts File: 101	007MS04-82
Juani Fitle	t Method : J:\MS04\METHODS\ e : VOA MS04 EPA Met	101007Mg	504-82	260.M (RTE	Integrator)	
Last	Update : Thu Oct 11 AR.16	100 8260)出/624 21	<u>.</u>		4
	Processia : IIILLIAI Calibrat	ion				
Jatał	Acq Meth : 8260				-	
						2 7 7
	Compound	R.T.	QIon	Response	Conc Unit	Ovalue
30)	2,2-Dichloropropane					÷
31)	2,2-Dichloropropane Ethyl Acetate cis-1,2-Dichloroethene 2-Butanone Propionitrile Methacrylonitrile Bromochloromethane	11 .28	77	489434	7.92 PPB	.99
32)	cis-1,2-Dichloroethene	11.25	70	69115	30.36 PPB	98
33)	2-Butanone	⊥⊥.26	96	513069	8.76 PPB	100
34)	Propionitrile	11.22	72	96945	53.78 PPB	# 56
25)	Methagyrlonitmil-	11.37	54	76864	30.22 PPR	π <u>5</u> 6
201		11.64	67	270915	31.86 PPB	98 98
/		L1.70	128	242441	8 79 000	
	Chloroform	77 77	0 0		8.13 PPB	95
38)	tert-butyl Formate	11.86 11.77 12.15	54	340671	O.TR ALE	99
39)	Tetrahydrofuran	11 77	10		18.84 PPB	
40)	1,1,1-Trichloroethane	12 15	·*±4	20324 403455	21.75 PPB	,
43)	Isobutyl Alcohol	10 20	7/2	491477	7.91 PPB	99
44)	Carbon Tetrachloride	12.3/	4 B	153870	313.04 PPB	
45)	1 1-Dichloropropers	12.43	117	420299	7.92 PPB	99
46)	tert-Amyl Methyl othor	12.41	75	515672	7.83 PPB	98
48)	tert-Amyl Methyl-ether Benzene	12.02	. 55	344663		·
	1 2-Dighlorooth	12.77	78	1630376	8.24 PPB 8.65 PPB	99
サレ/ ちつ/	1,2-Dichloroethane	12.78	62	370319	8.65 PPR	99
50)		13./3	95	404410	8.14 PPB	i i
24) En 1	Methyl methacrylate	14.12	69	444534	33.54 PPB	# 97
<u>つ</u> 」)	1,2-Dichloropropane	14.10		401334	2 AE DDD	
54)	1,4-Dioxane Dibromomethane	14.25		47097	8.45 PPB 348.38 PPB	
55)	Dibromomethane	14.30	98	216296		93
56)	Bromodichloromethane		22	410490 A75074	9.00 PPB	98
57)	2-Chloroethyl Vinvl Ether	14.82	60	±/52/6	8.81 PPB	.99
58)	2-Nitropropane	74 70	40	09771	8.75 PPB	99
59)	cis-1 3-Dichloropropena		4 L	11/672	29.84 PPB	97
60)	4-Methyl-2-pentanone (MIBK		10	568485	8.75 PPB 29.84 PPB 9.00 PPB 50.96 PPB	:97
62)	Toluene	15.27	100	124130	50.96 PPB	97
		15.61	92	974146	8.20 PPB	,98
65)	n-Octane	15.88	6 P	975446	8.20 PPB 8.20 PPB 36.01 PPB	98
55)	trangel 2 Dichlesse	15.62	85	603567	19.62 PPB 8.86 PPB	90 99
507	trans-1,3-Dichloropropene	15.86	75	401888	8.86 PPR	84
07) 201	1,1,2-Trichloroethane Tetrachloroethene	16.14	88	777777		7
. ,		16.36	164	353781	7 20 FFD	98
	2-Hexanone	16.39	57	86079	52 E1 DDD	98
/0)	1,3-Dichloropropane	16.37	76	469921	9.28 PPB 7.80 PPB 52.51 PPB 9.12 PPB 9.13 PPB	96
71)	Dibromochloromethane	16.69	126	347955	2.12 PPB	99
72)	1,2-Dibromoethane (EDB)	16 89	107		9.13 PPB 9.12 PPB	100
73)	1-Chlorohexane			Z/000/	9 10 DDD	98
74)	Chlorobenzene	17 17		335015	8.33 PPB	98
75)	Ethylbenzene			1131832	8.41 PPB	99
76)	Ethylbenzene 1,1,1,2-Tetrachloroethane	17.54	106 131	553993 376219	8.41 PPB 8.35 PPB	97
 #) -	malifier out of				0.63 PPB	99
0705	qualifier out of range (m) 020.D 101007MS04-8260.M	= manua	il int	egration		- 4 2
OTOF.		TTU	7CC 11	L 08:41:56	2007	Page 2
UTOF						rage 2
UTOF.		23				rage 2

Data File : J:\MS04\DATA\101007\ Acq On : 10 Oct 2007 8:19 p Sample : ICV Misc : MS Integration Params: RTEINT.P Quant Time: Oct 11 08:18:08 2007 Quant Method : J:\MS04\METHODS\1 Title : VOA MS04 EPA Method Last Update : Thu Oct 11 08:16: Response via : Initial Calibratic DataAcq Meth : 8260	01007MS04-8	Oj In Mu Quant Result	Vial: 20 perator: HC nst : MSO ultiplr: 1.0 ts File: 101 Integrator)	0
Compound 77) m,p-Xylenes	R.T. QIC	6 1425382	Conc Unit	Qvalue
<pre>78) o-Xylene 79) Styrene 80) Bromoform 81) Isopropylbenzene 84) cis-1,4-Dichloro-2-Butene 85) 1,1,2,2-Tetrachloroethane 86) Bromobenzene 87) n-Propylbenzene 88) trans-1,3-Dichloro-2-Buten 89) 1,2,3-Trichloropropane 90) 2-Chlorotoluene 91) 1,3,5-Trimethylbenzene 92) 4-Chlorotoluene 93) tert-Butylbenzene 94) 1,2,4-Trimethylbenzene 95) sec-Butylbenzene 96) p-Isopropyltoluene 97) 1,3-Dichlorobenzene 98) 1,4-Dichlorobenzene 99) n-Butylbenzene 100) 1,2-Dichlorobenzene 101) 1,2-Dibromo-3-chloropropan 102) 1,3,5-Trichlorobenzene 103) 1,2,4-Trichlorobenzene 104) Hexachlorobutadiene 105) Naphthalene</pre>	18.17 10 18.18 10 18.47 17 18.57 10 18.63 8 18.99 15 19.01 9 18.94 5 19.17 9 19.18 10 19.28 9 19.57 13 19.61 10 19.81 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8.87 PPB 9.16 PPB 9.54 PPB 7.53 PPB 36.42 PPB 9.48 PPB 8.85 PPB 8.66 PPB 37.89 PPB 9.79 PPB 8.60 PPB 8.41 PPB 8.51 PPB	998909839480007999999999999999999999999999999999
(#) = gualifier out of more ()				
(#) = qualifier out of range (m) = 1010F020.D 101007MS04-8260.M	= manual ir Thu Oct 1 238	itegration 1 08:41:56 2	2007	Page 3







COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric

Service Request: K0802796 Date Analyzed: 04/11/2008

Continuing Calibration Verification Summary Volatile Organic Compounds

Calibration Type:
Analysis Method:

Internal Standard 8260B

Calibration Date:	10/10/2007
Calibration ID:	CAL6696
Analysis Lot:	KWG0803340
Units:	PPB

File ID: J:\MS04\DATA\041108\0411F003.D

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Dichlorodifluoromethane	10	8.1	0.01	0.296	0.241	-19	NA	± 40 %	AverageRF
[†] Chloromethane	10	8.0	0.10	0.385	0.306	-20	NA	$\pm 40\%$	AverageRF
[‡] Vinyl Chloride	10	8.3	0.01	0.321	0.266	-17	NA	$\pm 20\%$	AverageRF
Bromomethane	10	8.8	0.01	0.227	0.199	-12	NA	$\pm 40\%$	AverageRF
Chloroethane	10	8.3	0.01	0.239	0.199	-17	NA	$\pm 40\%$	AverageRF
Trichlorofluoromethane	10	11	0.01	0.357	0.387	8	NA	$\pm 30\%$	AverageRF
Acetone	200	230	0.01	0.0259	0.0298	15	NA	$\pm 30\%$	AverageRF
[‡] 1,1-Dichloroethene	10	9.2	0.01	0.245	0.226	-8	NA	$\pm 20\%$	AverageRF
Carbon Disulfide	10	8.8	0.01	1.02	0.899	-12	NA	$\pm 30\%$	AverageRF
Methylene Chloride	10	8.4	0.01	0.350	0.294	-16	NA	$\pm 30\%$	AverageRF
trans-1,2-Dichloroethene	10	9.2	0.01	0.314	0.290	-8	NA	$\pm 30\%$	AverageRF
[†] 1,1-Dichloroethane	10	9.6	0.10	0.502	0.479	-4	NA	$\pm 30\%$	AverageRF
2-Butanone (MEK)	200	210	0.01	0.00993	0.0105	6	NA	$\pm 30\%$	AverageRF
2,2-Dichloropropane	10	11	0.01	0.341	0.369	8	NA	$\pm 30\%$	AverageRF
cis-1,2-Dichloroethene	10	10	0.01	0.323	0.322	Õ	NA	$\pm 30\%$	AverageRF
[‡] Chloroform	10	11	0.01	0.467	0.493	5	NA	± 20 %	AverageRF
Bromochloromethane	10	10	0.01	0.152	0.158	4	NA	± 30 %	AverageRF
1,1,1-Trichloroethane (TCA)	10	11	0.01	0.342	0.366	7	NA	± 30 %	AverageRF
1,1-Dichloropropene	10	9,6	0.01	0.363	0.348	-4	NA	± 30 %	AverageRF
Carbon Tetrachloride	10	11	0.01	0.292	0.307	5	NA	± 30 %	AverageRF
1,2-Dichloroethane (EDC)	10	13	0.01	0.236	0.304	29	NA	± 30 %	AverageRF
Benzene	10	9.4	0.01	1.09	1.03	-6	NA	± 30 %	AverageRF
Trichloroethene (TCE)	10	9.8	0.01	0.274	0.267	-2	NA	± 30 %	AverageRF
[‡] 1,2-Dichloropropane	10	9.4	0.01	0.262	0.247	-6	NA	$\pm 20 \%$	AverageRF
Bromodichloromethane	10	12	0.01	0.297	0.343	15	NA	± 30 %	AverageRF
Dibromomethane	10	11	0.01	0.132	0.143	8	NA	± 30 %	AverageRF
2-Hexanone	200	220	0.01	0.0129	0.0142	10	NA	± 30 %	AverageRF
cis-1,3-Dichloropropene	10	11	0.01	0.348	0.391	12	NA	± 30 %	AverageRF
[‡] Toluene	10	10	0.01	0.655	0.658	0	NA	± 20 %	AverageRF
trans-1,3-Dichloropropene	10	11	0.01	0.356	0.398	12	NA	± 30 %	AverageRF
1,1,2-Trichloroethane	10	9.7	0.01	0.189	0.184	-3	NA	± 30 %	AverageRF
4-Methyl-2-pentanone (MIBK)	200	230	0.01	0.0134	0.0153	14	NA	\pm 30 %	AverageRF
1,3-Dichloropropane	10	9.8	0.01	0.405	0.395	-2	NA	\pm 30 %	AverageRF
Tetrachloroethene (PCE)	10	9.4	0.01	0.356	0.334	-6	NA	± 30 %	AverageRF
Dibromochloromethane	10	10	0.01	0.299	0.310	3	NA	\pm 30 %	AverageRF
1,2-Dibromoethane (EDB)	10	10	0.01	0.237	0.245	3	NA	$\pm 30 \%$	AverageRF
[†] Chlorobenzene	10	9.4	0.30	1.06	0.992	-6	NA	\pm 30 %	AverageRF
1,1,1,2-Tetrachloroethane	10	10	0.01	0.343	0.347	1	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

Service Request: K0802796 Date Analyzed: 04/11/2008

Continuing Calibration Verification Summary Volatile Organic Compounds

Calibration Type:	Internal Standard	Calibration Date:	10/10/2007
Analysis Method:	8260B	Calibration ID:	CAL6696
		Analysis Lot:	KWG0803340
		Units:	PPB

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
•	-								
[‡] Ethylbenzene	10	9.3	0.01	0.521	0.485	-7	NA	± 20 %	AverageRF
m,p-Xylenes	20	19	0.01	0.662	0.623	-6	NA	± 30 %	AverageRF
o-Xylene	10	10	0.01	0.611	0.613	0	NA	± 30 %	AverageRF
Styrene	10	10	0.01	0.993	1.03	3	NA	± 30 %	AverageRF
† Bromoform	10	12	0.10	0.150	0.177	18	NA	± 30 %	AverageRF
Isopropylbenzene	10	9.4	0.01	1.59	1.49	-6	NA	$\pm 30\%$	AverageRF
† 1,1,2,2-Tetrachloroethane	10	8.4	0.30	0.457	0.384	-16	NA	± 30 %	AverageRF
1,2,3-Trichloropropane	10	9.2	0.01	0.125	0.115	-8	NA	± 30 %	AverageRF
Bromobenzene	10	9.8	0.01	0.883	0.864	-2	NA	± 30 %	AverageRF
n-Propylbenzene	10	8.5	0.01	3.86	3.29	-15	NA	± 30 %	AverageRF
2-Chlorotoluene	10	8.8	0.01	2.50	2.21	-12	NA	± 30 %	AverageRF
4-Chlorotoluene	10	8.9	0.01	2.31	2.04	-11	NA	\pm 30 %	AverageRF
1,3,5-Trimethylbenzene	10	8.9	0.01	2.60	2.30	-12	NA	± 30 %	AverageRF
tert-Butylbenzene	10	8.5	0.01	0.638	0.540	-15	NA	± 30 %	AverageRF
1,2,4-Trimethylbenzene	10	9.2	0.01	2.53	2.34	-8	NA	± 30 %	AverageRF
sec-Butylbenzene	10	8.9	0.01	3.32	2.95	-11	NA	± 30 %	AverageRF
1,3-Dichlorobenzene	10	9.3	0.01	1.66	1.55	-7	NA	± 30 %	AverageRF
4-Isopropyltoluene	10	8.8	0.01	2.90	2.56	-12	NA	$\pm 30 \%$	AverageRF
1,4-Dichlorobenzene	10	9.2	0.01	1.71	1.57	-8	NA	± 30 %	AverageRF
n-Butylbenzene	10	8.7	0.01	2.48	2.15	-13	NA	± 30 %	AverageRF
1,2-Dichlorobenzene	10	9.5	0.01	1.39	1.32	-5	NA	± 30 %	AverageRF
1,2-Dibromo-3-chloropropane	10	10	0.01	0.0675	0.0695	3	NA	± 30 %	AverageRF
1,2,4-Trichlorobenzene	10	9.8	0.01	0.676	0.660	-2	NA	± 30 %	AverageRF
1,2,3-Trichlorobenzene	10	9.5	0.01	0.452	0.429	-5	NA	± 30 %	AverageRF
Naphthalene	10	9.0	0.01	0.793	0.714	-10	NA	± 30 %	AverageRF
Hexachlorobutadiene	10	8.9	0.01	0.324	0.290	-11	NA	± 30 %	AverageRF
1,3,5-Trichlorobenzene	10	10	0.01	0.961	0.981	2	NA	± 30 %	AverageRF
Dibromofluoromethane	10	11	0.01	0.262	0.287	9	NA	± 30 %	AverageRF
Toluene-d8	10	12	0.01	0.733	0.922	NA	21	$\pm 30\%$	Linear
4-Bromofluorobenzene	10	11	0.01	0.397	0.447	13	NA	± 30 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Data File:	J:\MS04\DATA\041108\0411F003.D
Lab ID:	KWG0803340-2
RunType:	CCV
Matrix:	WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: MethodJoinID: 04/11/2008 10:05 04/11/2008 10:36 KWG0803340 8260B MJ119

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Average RSD	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA		x
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Initial Calibration Minimum RF	1,4-Dioxane	0.0007	0.01	NA	NT
	tert-Butyl Alcohol	0.0067	0.01	NA	1
	Isobutyl Alcohol	0.0027	0.01	NA	
	2-Butanone (MEK)	0.0099	0.01	NA	MRLChed

4.11.08 HT.4.11.08 Primary Review: Secondary Review

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Page 1 of 1

Quantitation Report

	ottle ID: od Code:	8260B			Tier: Collect Date	:		Matri Recei	x: ve Date:	WATE 04/11/2		
Analysis Lot: KWG0803340 Analysis Method: 8260B Prep Ref:				Prep Lot: Prep Method Prep Date:	1:	ну на одна и	Repor	t Group:				
-		J:\MS04\METH	ODS\10100	7MS04-8				Calibr	ation ID:	CAL66	96	
Title: Tune Ref: J:\MS04\D. MB Ref:		J:\MS04\DATA\	041108\041	1F002.D				Metho Quan	d ID: t based on]	MJ119		
Ace Ru La	ta File: qu Date: n Type: b ID:	J:\MS04\DATA\0 04/11/2008 10:0 CCV KWG0803340-2)5	1F003.D	Quant Date:	04/11	/2008 10:36	Instru Vial: Dilutic Soln C		MS04 3 1.0 PPB		
S S	Parameter Na	rd Compounds	RT	RT		Quant	<u> </u>	Solution			Area	
	Fluorobenzen			Dev	·	Mass	Response	Conc		(Criteria	
	Chlorobenzen		13.12	-0.06		96	1919856	10.00			OK	
	1,4-Dichlorob		17.39 20.03	-0.05		117	1487735	10.00			OK	
1179	ogate Comp		20.03	-0.04		152	817586	10.00			OK	
5	oguie comp	ounus		RT	RRT							
lef	Parameter Nai		RT	Dev	Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rj
	Dibromofluor		11.99			113	551560	10.95		75-120	ΝA	
	1,2-Dichloroet	hane-d4	12.59			65	414368	12.07		62-121		
	Toluene-d8		15.45			98	1769852	12.13		80-128		
	4-Bromofluoro	obenzene	18.74			95	665549	11.26		75-117		
	et Compoun	ds		······			Fina	l Conc. Units:	ug/L			
	Parameter Nan		RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fina Cone		Q	Rŗ
	Dichlorodifluo		4.77			85	462089	8.14				
	Chloromethane		5.25			50	587610	7.95				
	Vinyl Chloride		5.52			62	510499	8.29				
	Bromomethane	2	6.31			94	382851	8.77				
	Chloroethane Dichlorofluoro	methane (CFC 21	6.52			64	380980	8.29				
			6.90			67	1021983	9.52				
	Trichlorofluoro	omethane	7.04			101	742027	10.81				
	Ethyl Ether Trichlorotriflud	moethane	7.56			59	286901	10.11				
			8.01	• · · · · · · · · · · · · · · · · · · ·		151	421205	9.52				
	1,1-Dichloroetl Acetone	iene	8.06			96	433525	9.22				
	Iodomethane		8.11 8.39			43	1142791	229.54				
		ła				127	975406 m	33.82				
	Carbon Disulfi Acrolein	le	8.54 7.85			76 56	1725927 860153	8.84 221.61				
nalyte lit abc .nalyte	ected at or above MDL, detected above MDL, we MRL also found in e concentration above in prive evidence of com	but below MRL Method Blank high point of ICAL		d: Compound	m dilution tegration performed i manually deleted not reported from th			*: Result fails accepts #: Acceptance criteria ?: Insufficient informa e: Result >= MRL, bi c: check for co-elutio	a not applicable ation to determine at MRL less than 1	acceptance low point of l	CAL	

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J:\MS04\DATA\041108\0411F003.D

Page 1 of 3

.

Run	u Date: 04/11/2008 n Type: CCV DID: KWG080334		5003.D	Quant Date:	04/1	1/2008 10:36	Instrum Vial: Dilution Soln Coi	3		
Targ	get Compounds					Final	Conc. Units:	ug/L		
IS Ref	Parameter Name	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Final Conc	Q	Rpt
1	3-Chloro-1-propene	8.69			41	601835	7.30	1. 		
1	Acetonitrile	8.64			41	1056732				
1	Methylene Chloride	8.92			84	564567	369 :91 8.41			
1	tert-Butyl Alcohol	8.98			59	59335	46.32			
1	Methyl tert-Butyl Ether	9.34			73					
1	trans-1,2-Dichloroethene	9.40			73 96	1703655 557014	22.57			
	n-Hexane	9.82			90 57	557014 572479	9.23			
1	1,1-Dichloroethane	10.15					8.33			
	Vinyl Acetate	10.13			63	919777	9.55		1	
	Acrylonitrile	9.34			86 52	119897	19.43			
	Diisopropyl Ether			·····	53	336861	39.43		100	-
	Chloroprene	10.14			45	1484065	9.83		(
	tert-Butyl Ethyl Ether	10.31			88	1785884	43.10		a de solator e solato	
		10.80			59	1193760	11.34		-	
	2,2-Dichloropropane	11.22			77	708685	10.84			
	Ethyl Acetate	11.19			70	91441	37.97		Et il tieros	
1	cis-1,2-Dichloroethene	11.19			96	618617	9.99		16.024	
	2-Butanone (MEK)	11.16			72	404182	211.98			
	Propionitrile	11.31			54	107917	40.12		Listonut.	
	Methacrylonitrile	11.57			67	376194	41.82		1. 6 ,2 0.000 0.000	
1	Bromochloromethane	11.64			128	303150				
	Chloroform	11.71			83	946173	10.38 10.55		and the set	
. 1	tert-Butyl Formate	11.80			59	194022	10.33		5	
	Tetrahydrofuran	11.71								
	1,1,1-Trichloroethane (TCA)				42 97	145074 703623	30.35		171	
	Isobutyl Alcohol	12.31			43	222207	10.71		holesiyor	
(Carbon Tetrachloride	12.37					427.42			
	1,1-Dichloropropene	12.37			117	589158	10.50		o theodor - Barro	
	tert-Amyl Methyl Ether	12.33			75	667331	9.58			
	Benzene	······			55	227838	11.35			
	l,2-Dichloroethane (EDC)	12.71			78	1970352	9.42		11 - 1 	
	Trichloroethene (TCE)	12.72			62	583117	12.87		dia rak mag	
		13.68			95	512755	9.76			
	Methyl Methacrylate	14.07			69	148230	10.57			
	1,2-Dichloropropane	14.04			63	473628	9.43		1	
	-	14.19		· · · · · · · · · · · · · · · · · · ·	88	73797	516.16		s ar fyreforðuri	
	Dibromomethane	14.24			93	273589	10.76		anel anel	
	Bromodichloromethane	14.42			83	658513	11.54		51 -9484m	
2	2-Chloroethyl Vinyl Ether	14.77			63	61283	7.26		ĩ	
	2-Nitropropane	14.74			41	280123	67.17			
	is-1,3-Dichloropropene	15.06			75	750175	11.22		Canada S	
4	-Methyl-2-pentanone (MIBK				100	588925	228.58		5	
T	oluene	15.55			92				<u> </u>	
	thyl Methacrylate	15.83			92	1262462	10.04		beatra	

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS04\DATA\041108\0411F003.D

Aco Ru Lal	qu Date: 04/ n Type: CC b ID: KW	11/2008 10:05	1108\0411F003.D		Quant Date:	04/11/2008 10:36		Instrument: Vial: Dilution: Soln Conc. Units:		MS04 3 1.0 PPB		
	get Compounds						Final	Conc. Units: ug/L				
IS Ref	Parameter Name		RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fin Cor		Q	Rpt?
2	n-Octane		15.57		.15	85	326656	9.08				
2	trans-1,3-Dichloro		15.81		ana a Salah salah sa	75	592463	11.17				
2	1,1,2-Trichloroetha		16.09		13 - 3 ^{- 5}	83	273171	9.73				
2	Tetrachloroethene	(PCE)	16.31			164	497141	9.38				
2	2-Hexanone		16.34		· · · ·	57	422356	220.39				
2	1,3-Dichloropropar		16.32			76	587800	9.76				
2	Dibromochloromet	hane	16.65			129	460902	10.34				
2	1,2-Dibromoethane	e(EDB)	16.84			107	364378	10.32				
2	1-Chlorohexane		17.29			55	428066	9.10				
2 '	Chlorobenzene		17.42			112	1475878	9.38				
2	Ethylbenzene		17.50			106	722080	9.31				
2	1,1,1,2-Tetrachloro	ethane	17.50			131	516927	10.14				
2	m,p-Xylenes		17.63			106	1853512	18.83				
2	o-Xylene		18.13			106	911684	10.04				
2	Styrene		18.14			100	1527061	10.04				
2	Bromoform		18.42			173	263473	11.78				
2	Isopropylbenzene		18.53			105	2216825	9.40				
	cis-1,4-Dichloro-2-l		18.59			88	290498	9.40 41.03				
3	1,1,2,2-Tetrachloro	ethane	18.85			83	314243	8.41				
3	Bromobenzene		18.95		······································	156	706421	9.79				
	n-Propylbenzene		18.97			91	2688919	8.53				
3	trans-1,4-Dichloro-2	2-butene	18.90			53	66555	9.58				
3	1,2,3-Trichloroprop	ane	18.93			110	93800	9.17				
	2-Chlorotoluene		19.12			91	1805809	8.83				
3	1,3,5-Trimethylbenz	zene	19.14			105	1877880	8.85				
	4-Chlorotoluene		19.23			91	1668542	8.85			· · · · · · · · · · · · · · · · · · ·	
	tert-Butylbenzene		19.53			134	441367	8.46				
3	1,2,4-Trimethylbenz	zene	19.57			105	1910840	9.24				
	sec-Butylbenzene		19.77			105	2414556	8.88				
	4-Isopropyltoluene		19.89			119	2092208	8.81				
3	1,3-Dichlorobenzene	2	19.96			146	1267368	9.34				
	1,4-Dichlorobenzene	2	20.05			146	1280591	9.15				
	n-Butylbenzene		20.36			91	1754621	8.66				
	1,2-Dichlorobenzene	;	20.50			146	1078475	9.48				
	1,2-Dibromo-3-chlor		21.41			157	56854	10.30				
	1,3,5-Trichlorobenze		21.63			180	801823	10.30				
]	1,2,4-Trichlorobenze	ne	22.45			180	539611	9.76				
	Hexachlorobutadiene	2	22.60			225	237080	8.94				
	Naphthalene		22.85			128	583500	9.00				
1	,2,3-Trichlorobenze	ne 2	23.18			180	350454	9.48				

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

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D: Result from dilution

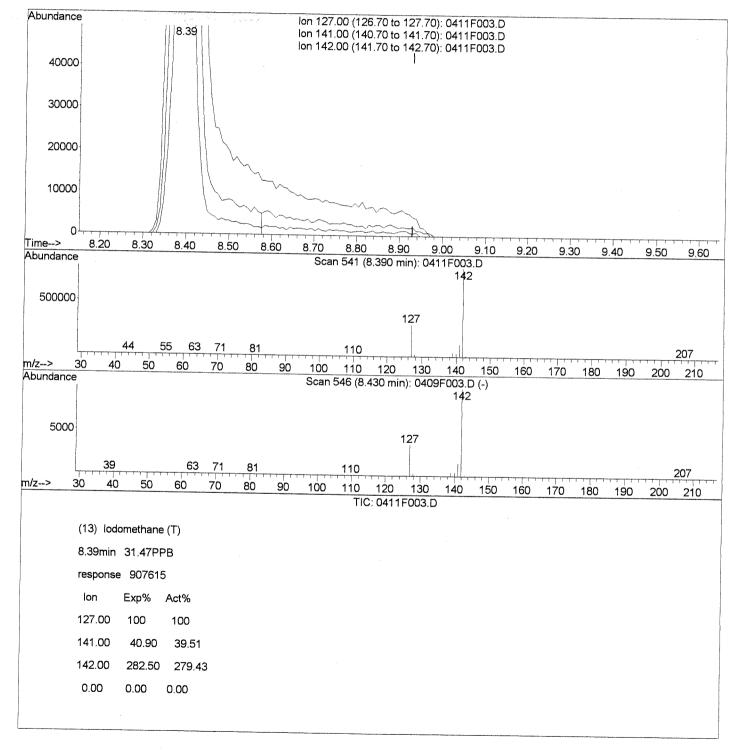
Nestan Hondon Britanni and State St

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

247

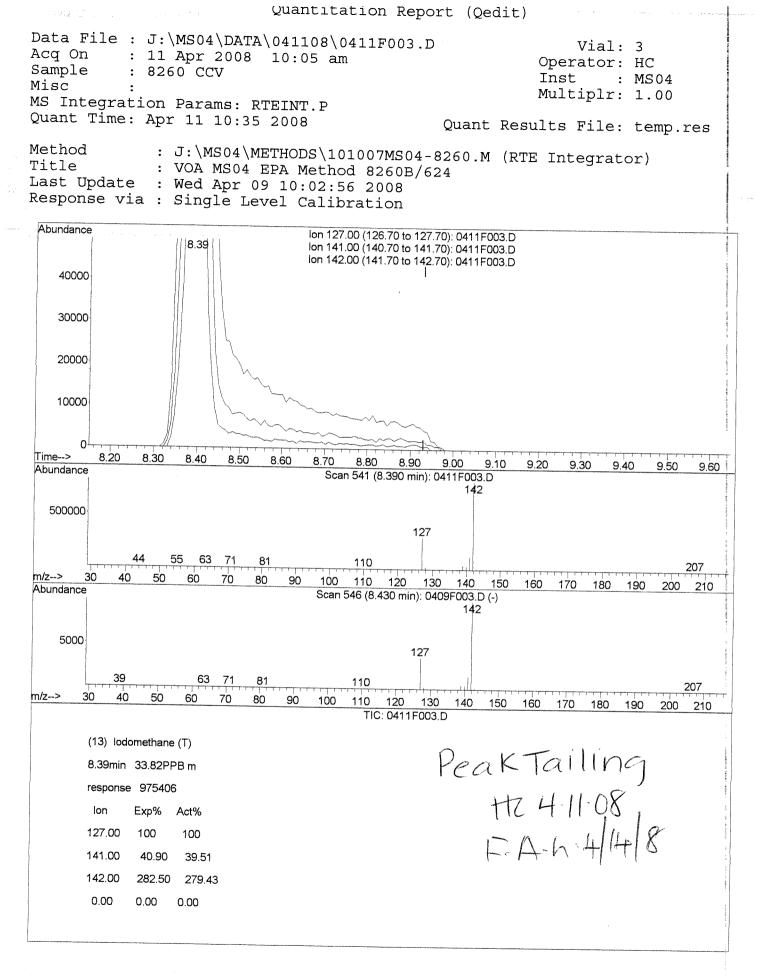
J:\MS04\DATA\041108\0411F003.D

Quantitation Report (Qedit) Data File : J:\MS04\DATA\041108\0411F003.D Vial: 3 Acq On : 11 Apr 2008 10:05 am Operator: HC Sample : 8260 CCV Inst : MS04 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 11 10:35 2008 Quant Results File: temp.res : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Method Title : VOA MS04 EPA Method 8260B/624 Last Update : Wed Apr 09 10:02:56 2008 Response via : Single Level Calibration



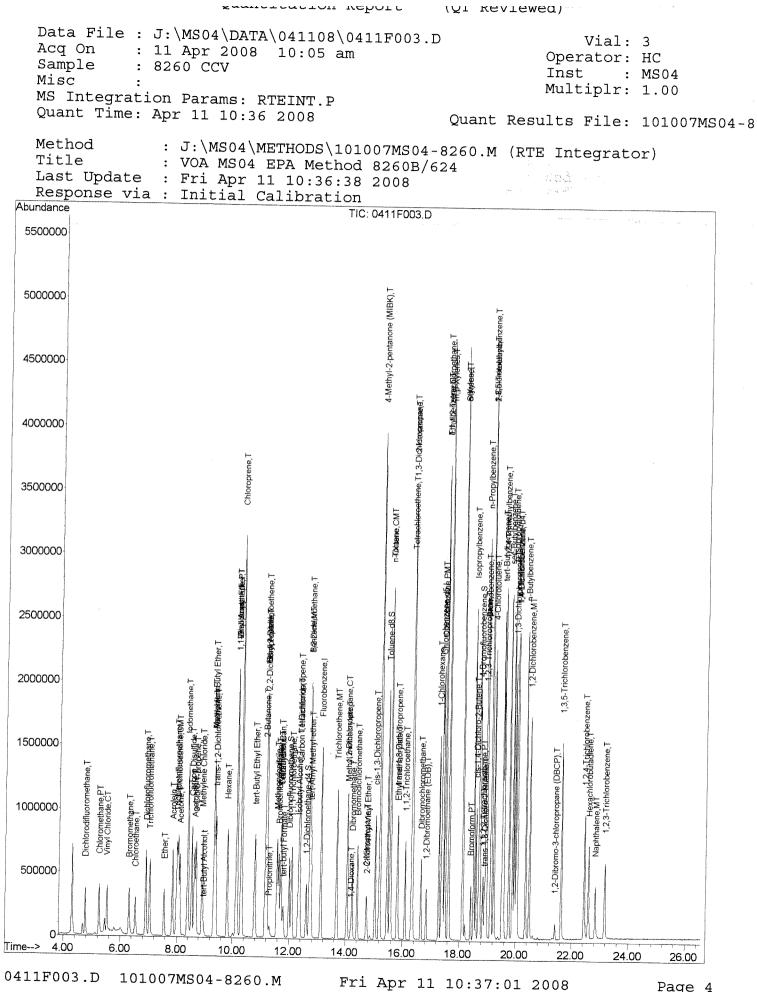
0411F003.D 101007MS04-8260.M

Fri Apr 11 10:35:42 2008



0411F003.D 101007MS04-8260.M

Fri Apr 11 10:35:46 2008



Page 4

Organic Analysis: <u>Volatile Organic Compounds</u>

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 $\label{eq:product} \hat{e}^{(1)}(r) = e^{i r} e$

Validation Package

Sample Prep and Screen Data

Dar	111826 tc: <u>4.11.08</u> PERATOR <u>HCONRA</u>	VOA DAII	ANALYTICAL S LY ANALYSIS I GCMS 5971 MS /IEW_{A-V	-04 T	AL Date: <u>10-10-07</u> AL-10696 NE FILE: <u>BFB.0</u> W TUNE? <u>N0</u>				
	ICV/LCS STD# 12D/12A/11 MISC: STD# BFB: 49V0A13B! MPL: See CCV								
R	UN SAMPLE NAME	DATA FILE	METHOD P		O STD# <u>See LCS</u> R COMMENTS				
	ME Primer	NULLEONI							
2	50ng BFB	0411F001 1 2	8260	en al anterna de					
3	8260CCV	3		4.4.4.1/44mL /					
4	LCS	4		Sult 10,4 gml					
5	2796-01MS	5	+	Sul +7511/Aml/ Bul +4441+4441+4441					
6	L OIDMS		LZ +	4.4ultblaul/44ml					
7	IB	7							
8	MRL	8		5.115.16.1					
, 9	MB	9		25ult. Sull Som	ľ				
10	2932-03	10	42	/	TR 2, 977				
11	2888-04		1	/	TB 36977 TB 37270				
12	2796-01	12		. /					
. 13	62	13							
14 .	1 03	14		/					
15	2874-06R	15	3	/	, ,				
16	2880-01	16	L2	/					
17	<u> </u>	17		/					
18	2932-01	18		1					
19	1 02	19		1					
20	2888-01	20		1					
21	02	21		/					
22	1 03	22		1	e e				
23	2957-02DL	23	20)	x ·5mL/DmL/					
24	<u> </u>	24		/					
	IB	1 25	<u>ا ا ک</u>						

LIMS WORKGROUP #_KWG0803340A/3341P

Quantitation Report (QT Reviewed) Data File : J:\MS04\DATA\041108\0411F008.D Acq On : 11 Apr 2008 12:45 pm Vial: 8 Operator: HC Sample : MRL CHECK Inst : MS04 Misc : MS Integration Params: RTEINT.P Quant Time: Apr 11 13:14:08 2008 Quant Results File: 101007MS04-826(Quant Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 13 15 16 16 Last Update : Fri Apr 11 10:36:38 2008 Internal Standards Response via: Initial Calibration Internal Standards R.T. QION Response Conc Unit's Dev(Min) -----1) Fluorobenzene13.1196202160810.00PPB63) Chlorobenzene-d517.38117153301510.00PPB83) 1,4-Dichlorobenzene-d420.0315283797710.00PPB 0.00 0.00 0.00 System Monitoring Compounds 41) Dibromofluoromethane 12.00 113 576233 10.86 PPB Spiked Amount 10.000 0.00

 47) 1,2-Dichloroethane-d4
 12.60
 65

 Spiked Amount
 10.000
 15.46
 98
 1

 Spiked Amount
 10.000
 15.46
 98
 1

 Recovery = 108.60% 431004 11.92 PPB 0.00 Recovery = 119.20% 15.46 98 1854987 12.08 PPB 0.00 82) 4-Bromofluorobenzene Spiked Amount 10.000 Recovery = 120.80% 18.73 95 678852 11.15 PPB 0.00 Recovery = 111.50%

 Target Compounds
 Qual

 2) Dichlorodifluoromethane
 4.77
 85
 29166
 0.49
 PPB

 3) Chloromethane
 5.25
 50
 40968
 0.53
 PPB

 4) Vinyl Chloride
 5.53
 62
 34451
 0.53
 PPB

 5) Bromomethane
 6.31
 94
 23314
 0.51
 PPB

 6) Chloroethane
 6.31
 94
 23314
 0.51
 PPB

 7) Dichlorofluoromethane
 6.90
 67
 60999
 0.54
 PPB

 8) Trichlorofluoromethane
 7.05
 101
 46039
 0.64
 PPB

 9) Ether
 7.56
 59
 15803
 0.53
 PPB

 10) Trichlorotrifluoroethene
 8.00
 151
 26151
 0.56
 PPB

 11) 1.1-Dichloroethene
 8.06
 96
 29827
 0.60
 PPB

 13) Iodomethane
 8.39
 127
 34959
 1.15
 PPB

 14) Carbon Disulfide
 8.54
 76
 103549
 0.50
 PPB

 15) Acrolein
 7.85
 56
 40493
 9.91
 PPB</t Target Compounds

 arget Compounds

 2) Dichlorodifluoromethane
 4.77
 85
 29166

 3) Chloromethane
 5.25
 50
 40968

 4) Vinyl Chloride
 5.53
 62
 34451

 5) Bromomethane
 6.31
 94
 23314

 Qvalue 88 97 98 97 97 98 95 89 94 °98 98 89 92 96 10.01 86 93 70 97 83 94 94 94 77 98 92 97 (#) = qualifier out of range (m) = manual integration 0411F008.D 101007MS04-8260.M Fri Apr 11 13:15:59 2008 Page 1

Quantitation Report (QT Reviewed) Data File : J:\MS04\DATA\041108\0411F008.D Acq On : 11 Apr 2008 12:45 pm Vial: 8 Operator: HC : MRL CHECK Misc Inst : MS04 : MS Integration Params: RTEINT.P Multiplr: 1.00 Quant Time: Apr 11 13:14:08 2008 Quant Results File: 101007MS04-826 Quant Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Fri Apr 11 10:36:38 2008 Response via : Initial Calibration DataAcq Meth : 8260 Compound R.T. QIon Response Conc Unit Qvalue 30)2,2-Dichloropropane11.2177441600.64PPB8731)Ethyl Acetate11.217056602.23PPB#6832)cis-1,2-Dichloroethene11.2096373080.57PPB9833)2-Butanone11.16722482412.36PPB $\top = (\bigcirc 90)$ 34)Propionitrile11.315454671.93PPB6435)Methacrylonitrile11.5867181331.91PPB8536)Bromochloromethane11.64128161700.53PPB7837)Chloroform11.7283513490.54PPB9239)Tetrahydrofuran11.704210959921.77PPB9540)1,1,1-Trichloroethane12.0997416780.60PPB9643)Isobutyl Alcohol12.32431435426.22PPB8644)Carbon Tetrachloride12.37117336180.57PPB94

 39) Tetrahydrofuran
 11.79
 59

 40) 1,1,1-Trichloroethane
 12.09
 97

 43) Isobutyl Alcohol
 12.32
 43

 44) Carbon Tetrachloride
 12.37
 117

 45) 1,1-Dichloropropene
 12.35
 75

 46) tert-Amyl Methyl-ether
 12.78
 55

 43)
 Isobutyl Alcohol
 12.32
 43
 14354
 26.22
 PPB

 44)
 Carbon Tetrachloride
 12.37
 117
 33618
 0.57
 PPB

 45)
 1.1-Dichloropropene
 12.35
 75
 38321
 0.52
 PPB
 #

 46)
 tert-Amyl Methyl-ether
 12.72
 78
 114539
 0.52
 PPB
 #

 47)
 1.2-Dichloroethane
 13.68
 95
 29425
 0.53
 PPB
 #

 50)
 Trichloroptopane
 14.07
 69
 7119
 0.48
 PPB

 53)
 1.2-Dichloroptopane
 14.07
 63
 26259
 0.50
 PPB

 54)
 1.4-Dioxane
 14.24
 93
 13706
 0.51
 PPB

 55)
 Dibromomethane
 14.24
 93
 13706
 0.51
 PPB

 57)
 2-Chloroptopane
 14.74
 41
 13688
 3.12
 PPB

 57)
 c-Chloroptopene
 15.05
 75
 37245
 0.53
 PPB

 60)
 4-Methyl-2-pentanone (MIBK
 15.21
 100
 94 96 74 99 93 92 81 99 98 97 91 65 95 94 85 92 94 94 96 86 94 90 99 97 92 97 90 81 _____ 53

(#) = qualifier out of range (m) = manual integration 0411F008.D 101007MS04-8260.M Fri Apr 11 13:15:59 2008

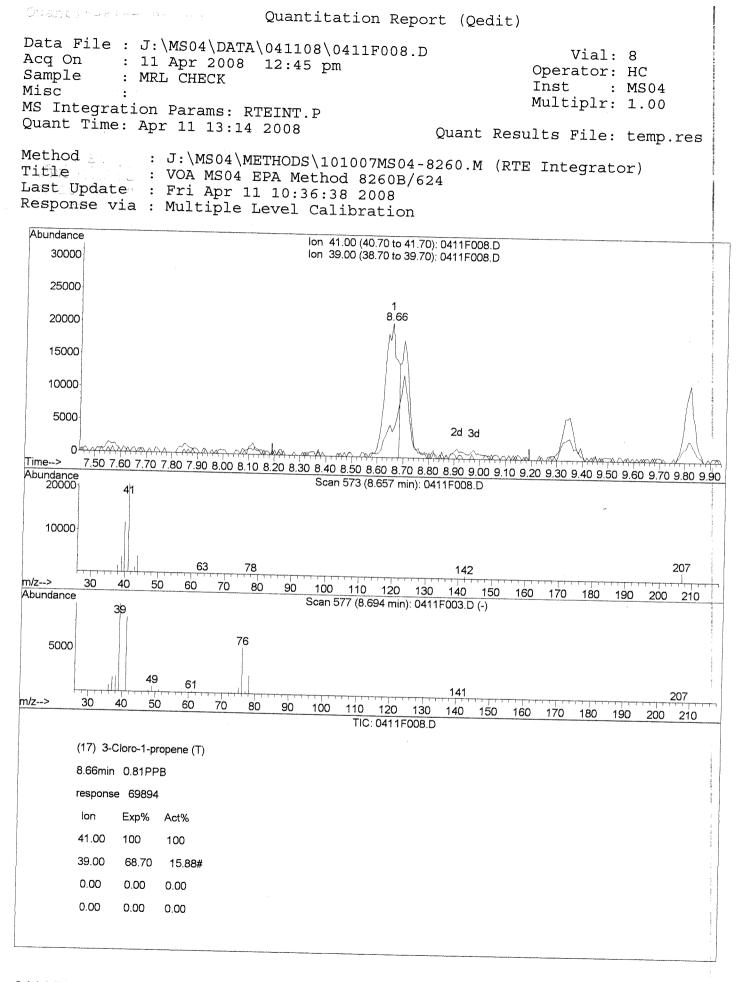
Page 2

guancication Report (QT Reviewed) Data File : J:\MS04\DATA\041108\0411F008.D Acq On : 11 Apr 2008 12:45 pm Sample : MRL CHECK Vial: 8 Operator: HC Misc Inst : MS04 : MS Integration Params: RTEINT.P Multiplr: 1.00 Quant Time: Apr 11 13:14:08 2008 Quant Results File: 101007MS04-826 Quant Method : J:\MS04\METHODS\101007MS04-8260.M (RTE Integrator) Title : VOA MS04 EPA Method 8260B/624 Last Update : Fri Apr 11 10:36:38 2008 Response via : Initial Calibration DataAcq Meth : 8260

·	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78 79 80 81 84 85 86 87 88 90 91 92 93 92 93 92 93 94 95 95 95 97 95 97 97 97 97 97 100 101 102 103 105 106)	<pre>Styrene Styrene Bromoform Isopropylbenzene 1,1,2,2-Tetrachloroethane Sromobenzene n-Propylbenzene trans-1,3-Dichloro-2-Buten 1,2,3-Trichloropropane 2-Chlorotoluene 1,3,5-Trimethylbenzene 4-Chlorotoluene tert-Butylbenzene 1,2,4-Trimethylbenzene p-Isopropyltoluene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Butylbenzene</pre>	18.13 18.14 18.41 18.52 18.60 18.85 18.95 18.98 18.94 19.13 19.14 19.24 19.53 19.57 19.76 19.90 19.97 20.06 20.35 20.50 21.41 21.63 22.46 22.61 22.85 23.19	104	$\begin{array}{c} 49094\\ 77348\\ 12927\\ 125020\\ 13757\\ 18294\\ 35703\\ 149837\\ 3439\\ 5116\\ 101985\\ 101706\\ 93362\\ 25036\\ 97954\\ 130329\\ 112355\\ 66287\\ 64222\\ 95796\\ 56467\\ 3659\\ 69305\\ 33392\\ 14995\\ 38365\\ 28236\end{array}$	0.52 PPB 0.51 PPB 0.51 PPB 0.56 PPB 0.51 PPB 1.90 PPB 0.48 PPB 0.48 PPB 0.48 PPB 0.49 PPB 0.49 PPB 0.49 PPB 0.49 PPB 0.47 PPB 0.47 PPB 0.46 PPB 0.57 PPB 0.55 PPB 0.58 PPB 0.58 PPB 0.75 PPB	94 92 94 96 90 89 94 99 82 4 96 95 95 95 95 95 95 95 95 95 95 97 93 98 97 93 98 97 93 98 97 93 98 97 95 91 91

------(#) = qualifier out of range (m) = manual integration 0411F008.D 101007MS04-8260.M Fri Apr 11 13:15:59 2008

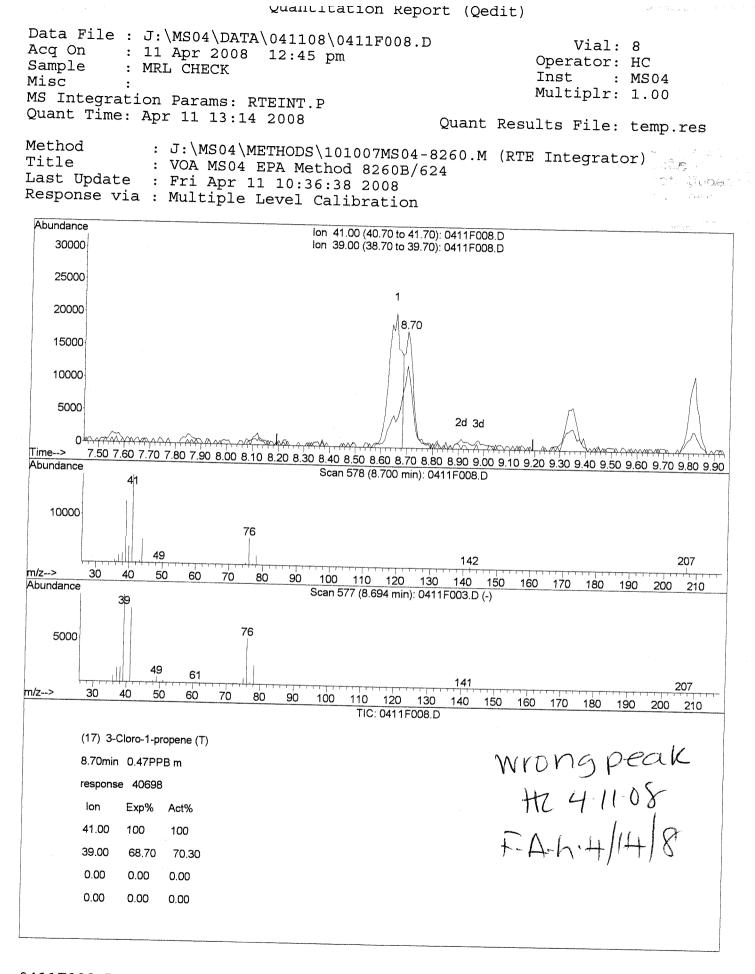
Page 3



0411F008.D 101007MS04-8260.M

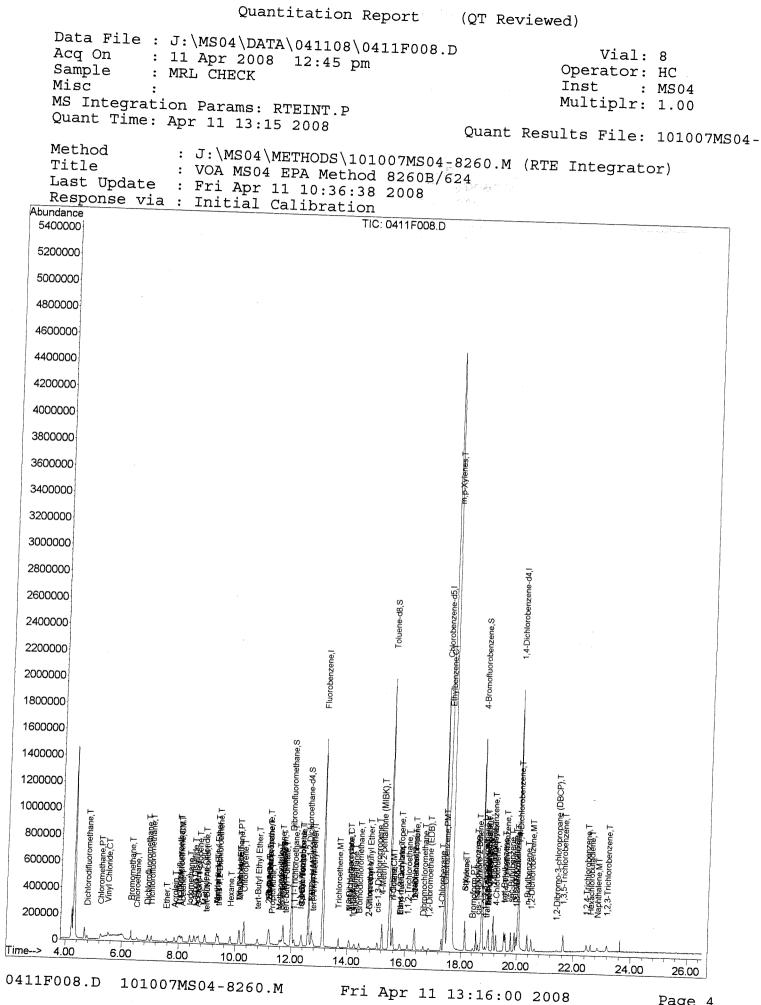
Fri Apr 11 13:14:25 2008

256



0411F008.D 101007MS04-8260.M

Fri Apr 11 13:14:29 2008



1,4-Dioxane by GC/MS

Organic Analysis: <u>1,4-Dioxane by GC/MS</u>

Summary Package

Sample and QC Results

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

Cover Page - Organic Analysis Data Package 1,4-Dioxane by GC/MS

		Date	Date
Sample Name	Lab Code	Collected	Received
KEP-GW-020A-003	K0802796-001	03/28/2008	04/01/2008
KEP-GW-020B-003	K0802796-002	03/28/2008	04/01/2008
Duplcate 2	K0802796-003	03/28/2008	04/01/2008

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Date:

Name: 1 Title:

 $u: \times the crystal.rpt \times the crystal \$

Cover Page - Organic 261

SuperSet Reference: RR86138

1

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Collected:	03/28/2008
Sample Matrix:	Water	Date Received:	04/01/2008

1,4-Dioxane by GC/MS

Sample Name: Lab Code:	KEP-GW-020A-003 K0802796-001						Units: ug/L Basis: NA	
Extraction Method: Analysis Method:	METHOD 8270C SIM]	Level: Low	
Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND U	0.50	0.260	1	04/04/08	04/09/08	KWG0803108	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	60	55-100	04/09/08	Acceptable	

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Collected:	03/28/2008
Sample Matrix:	Water	Date Received:	04/01/2008

1,4-Dioxane by GC/MS

Sample Name:	KEP-GW-020B-003	Units: ug/L
Lab Code:	K0802796-002	Basis: NA
Extraction Method: Analysis Method:	METHOD 8270C SIM	Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	0.64	0.50	0.260	1	04/04/08	04/09/08	KWG0803108	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	62	55-100	04/09/08	Acceptable	

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request: K08	02796
Project:	Kuhlman Electric	Date Collected: 03/2	8/2008
Sample Matrix:	Water	Date Received: 04/0	1/2008

1,4-Dioxane by GC/MS

Sample Name: Lab Code:	Duplcate 2 K0802796-003	,						Units: ug/L Basis: NA	
Extraction Method: Analysis Method:	METHOD 8270C SIM]	Level: Low	
Analyte Name	Resul	t Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	NI	D U	0.50	0.260	1	04/04/08	04/09/08	KWG0803108	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	60	55-100	04/09/08	Acceptable

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Collected:	NA
Sample Matrix:	Water	Date Received:	NA

1,4-Dioxane by GC/MS

Sample Name:	Method Blank	Units: ug/L
Lab Code:	KWG0803108-3	Basis: NA
Extraction Method: Analysis Method:	METHOD 8270C SIM	Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	ND U	0.50	0.260	1	04/04/08	04/09/08	KWG0803108	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	63	55-100	04/09/08	Acceptable

Comments:

Merged

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796

Surrogate Recovery Summary 1,4-Dioxane by GC/MS

Extraction Method:	METHOD
Analysis Method:	8270C SIM

Units: PERCENT Level: Low

Sample Name	Lab Code	<u>Sur1</u>
KEP-GW-020A-003	K0802796-001	60
KEP-GW-020B-003	K0802796-002	62
Duplcate 2	K0802796-003	60
Method Blank	KWG0803108-3	63
Lab Control Sample	KWG0803108-1	56
Duplicate Lab Control Sample	KWG0803108-2	63

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8

55-100

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric
 Service Request:
 K0802796

 Date Analyzed:
 04/09/2008

 Time Analyzed:
 11:48

Internal Standard Area and RT Summary 1,4-Dioxane by GC/MS

File ID:	J:\MS20\DATA\0
Instrument ID:	MS20
Analysis Method:	8270C SIM

MS20\DATA\040908\0409F002.D 520
 Lab Code:
 KWG0803281-2

 Analysis Lot:
 KWG0803281

		1,4-Dichlorobenzene-d4	
		Area	RT
	Results ==>	81,877	8.40
	Upper Limit ==>	163,754	8.90
	Lower Limit ==>	40,939	7.90
	ICAL Result ==>	85,840	8.43
Associated Analyses			
Method Blank	KWG0803108-3	87,574	8.43
Lab Control Sample	KWG0803108-1	89,704	8.39
Duplicate Lab Control Sample	KWG0803108-2	88,375	8.42
KEP-GW-020A-003	K0802796-001	85,128	8.40
KEP-GW-020B-003	K0802796-002	86,772	8.40
Duplcate 2	K0802796-003	89,528	8.43

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Extracted:
 04/04/2008

 Date Analyzed:
 04/09/2008

Lab Control Spike/Duplicate Lab Control Spike Summary 1,4-Dioxane by GC/MS

Extraction Method: Analysis Method:	METHOD 8270C SIM							B L	nits: asis: evel: Lot:	NA
		KW	Control Samp VG0803108-1 Control Spik		KV	Lab Control VG0803108-2 e Lab Control	ļ	%Rec		RPD
Analyte Name	-	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	
1,4-Dioxane		16.0	25.0	64	17.6	25.0	70	56-107	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

 Service Request:
 K0802796

 Date Extracted:
 04/04/2008

 Date Analyzed:
 04/09/2008

 Time Analyzed:
 12:08

Method Blank Summary 1,4-Dioxane by GC/MS

Sample Name:	Method Blank	File ID:	J:\MS20\DATA\040908\0409F003.D
Lab Code:	KWG0803108-3	Instrument ID:	MS20
Extraction Method:	METHOD	Level:	
Analysis Method:	8270C SIM	Extraction Lot:	

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0803108-1	J:\MS20\DATA\040908\0409F004.D	04/09/08	12:27
Duplicate Lab Control Sample	KWG0803108-2	J:\MS20\DATA\040908\0409F005.D	04/09/08	12:46
KEP-GW-020A-003	K0802796-001	J:\MS20\DATA\040908\0409F006.D	04/09/08	13:05
KEP-GW-020B-003	K0802796-002	J:\MS20\DATA\040908\0409F007.D	04/09/08	13:26
Duplcate 2	K0802796-003	J:\MS20\DATA\040908\0409F008.D	04/09/08	13:46

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796

Lab Control Sample/Duplicate Lab Control Sample Summary 1,4-Dioxane by GC/MS

Sample Name:	Lab Control Sample	Sample Name:	Duplicate Lab Control Sample
Lab Code:	KWG0803108-1	Lab Code:	KWG0803108-2
File ID:	J:\MS20\DATA\040908\0409F004.D	File ID:	J:\MS20\DATA\040908\0409F005.D
Instrument ID:	MS20	Instrument ID:	MS20
Date Extracted:	04/04/2008	Date Extracted:	04/04/2008
Date Analyzed:	04/09/2008	Date Analyzed:	04/09/2008
Time Analyzed:	12:27	Time Analyzed:	12:46

Extraction Method:METHODAnalysis Method:8270C SIM

Level: Low Extraction Lot: KWG0803108

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0803108-3	J:\MS20\DATA\040908\0409F003.D	04/09/08	12:08
KEP-GW-020A-003	K0802796-001	J:\MS20\DATA\040908\0409F006.D	04/09/08	13:05
KEP-GW-020B-003	K0802796-002	J:\MS20\DATA\040908\0409F007.D	04/09/08	13:26
Duplcate 2	K0802796-003	J:\MS20\DATA\040908\0409F008.D	04/09/08	13:46

Page

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

 Service Request:
 K0802796

 Date Analyzed:
 04/09/2008

 Time Analyzed:
 11:24

Tune Summary 1,4-Dioxane by GC/MS

File ID:	J:\MS20\DATA\040908\0409F001.D
Instrument ID:	MS20
Column:	

Analysis Method: 8270C SIM Analysis Lot: KWG0803281

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	24.9	242646	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	31.5	307150	PASS
70	69	0	2	0.5	1565	PASS
127	198	10	80	42.8	416981	PASS
197	198	0	2	0.0	0	PASS
198	442	30	100	48.6	974741	PASS
199	198	5	9	6.9	67365	PASS
275	198	10	60	31.5	307242	PASS
365	442	1	50	2.1	42482	PASS
441	443	0	100	87.1	363242	PASS
442	442	100	100	100.0	2003626	PASS
443	442	15	24	20.8	417173	PASS

			Date	Time	
Sample Name	Lab Code	File ID	Analyzed	Analyzed	Q
Continuing Calibration Verification	KWG0803281-2	J:\MS20\DATA\040908\0409F002.D	04/09/2008	11:48	
Method Blank	KWG0803108-3	J:\MS20\DATA\040908\0409F003.D	04/09/2008	12:08	
Lab Control Sample	KWG0803108-1	J:\MS20\DATA\040908\0409F004.D	04/09/2008	12:27	
Duplicate Lab Control Sample	KWG0803108-2	J:\MS20\DATA\040908\0409F005.D	04/09/2008	12:46	
KEP-GW-020A-003	K0802796-001	J:\MS20\DATA\040908\0409F006.D	04/09/2008	13:05	
KEP-GW-020B-003	K0802796-002	J:\MS20\DATA\040908\0409F007.D	04/09/2008	13:26	
Duplcate 2	K0802796-003	J:\MS20\DATA\040908\0409F008.D	04/09/2008	13:46	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

QA/QC Results

Client:	Environmental Chemistry Consulting Servi	Service R
Project:	Kuhlman Electric	Calibration

Service Request: K0802796 Calibration Date: 04/08/2008

Column: MS

Initial Calibration Summary 1,4-Dioxane by GC/MS

Calibration ID:	CAL7233	
Instrument ID:	MS20	

Level ID	File ID	Level ID	File ID
А	J:\MS20\DATA\040808\0408F003.D	Е	J:\MS20\DATA\040808\0408F007.D
В	J:\MS20\DATA\040808\0408F004.D	F	J:\MS20\DATA\040808\0408F008.D
С	J:\MS20\DATA\040808\0408F005.D	G	J:\MS20\DATA\040808\0408F009.D
D	J:\MS20\DATA\040808\0408F006.D		

Analyte Name	Level ID	Amt	RRF												
1,4-Dioxane	A	2.0	0.544	В	5.0	0.532	C	10	0.517	D	50	0.484	E	100	0.480
	F	250	0.503	G	500	0.502									
1,4-Dioxane-d8	А	2.0	0.420	В	5.0	0.439	С	10	0.431	D	50	0.401	E	100	0.393
	F	250	0.413	G	500	0.412									1

Results flagged with an asterisk (*) indicate values outside control criteria.

1 of 2

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

1,4-Dioxane-d8

Service Request: K0802796 Calibration Date: 04/08/2008

0.416

0.01

Initial Calibration Summary 1,4-Dioxane by GC/MS

% RSD

3.9

≤15

Calibration ID: Instrument ID:	CAL7233 MS20							Colum	n: N	1S
				Calibratio	on Evaluat	ion		RRF	Evalu	lation
Analyte Name		Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Q	Minimum RRF
1,4-Dioxane		MS	AverageRF	% RSD	4.6		≤15	0.509		0.01

AverageRF

SURR

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

‡ CCC Compound

QA/QC Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Calibration Date:	04/08/2008
		Date Analyzed:	04/08/2008

Second Source Calibration Verification 1,4-Dioxane by GC/MS

Calibration Type: Analysis Method:	Internal Standard 8270C SIM					Calibra		CAL7233 ng/ml
File ID:	J:\MS20\DATA\040808\	0408F010.I)					
Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
1,4-Dioxane	50	47	0.509	0.475	-7	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

QA/QC Results

Client:	Environmental Chemistry Consulting Servi	Service Request: K0802796
Project:	Kuhlman Electric	Date Analyzed: 04/09/2008

Continuing Calibration Verification Summary 1,4-Dioxane by GC/MS

Calibration Type: Analysis Method:	Internal Standard 8270C SIM	Calibration Date: 04/08/2008 Calibration ID: CAL7233
•		Analysis Lot: KWG0803281 Units: ng/ml
File ID:	J:\MS20\DATA\040908\0409F002.D	

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit	
1,4-Dioxane	50	44	0.01	0.509	0.450	-11	NA	± 20 %	AverageRF	
1,4-Dioxane-d8	50	44	0.01	0.416	0.366	-12	NA	± 20 %	AverageRF	

Results flagged with an asterisk (*) indicate values outside control criteria.

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QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796

Analysis Run Log 1,4-Dioxane by GC/MS

Analysis Method: 8270C SIM

Analysis Lot: KWG0803281 Instrument ID: MS20

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0409F001.D	GC/MS Tuning - Decafluorotripheny	KWG0803281-1	4/9/2008	11:24		4/9/2008	11:38
0409F002.D	Continuing Calibration Verification	KWG0803281-2	4/9/2008	11:48		4/9/2008	12:00
0409F003.D	Method Blank	KWG0803108-3	4/9/2008	12:08		4/9/2008	12:20
0409F004.D	Lab Control Sample	KWG0803108-1	4/9/2008	12:27		4/9/2008	12:39
0409F005.D	Duplicate Lab Control Sample	KWG0803108-2	4/9/2008	12:46		4/9/2008	12:58
0409F006.D	KEP-GW-020A-003	K0802796-001	4/9/2008	13:05		4/9/2008	13:17
0409F007.D	KEP-GW-020B-003	K0802796-002	4/9/2008	13:26		4/9/2008	13:38
0409F008.D	Duplcate 2	K0802796-003	4/9/2008	13:46	 	4/9/2008	13:58
0409F009.D	ZZZZZZ	ZZZZZZ	4/9/2008	14:05		4/9/2008	14:17
0409F010.D	ZZZZZZ	ZZZZZZ	4/9/2008	14:24	1	4/9/2008	14:36
0409F011.D	ZZZZZZ	ZZZZZZ	4/9/2008	14:43		4/9/2008	14:55
0409F012.D	ZZZZZZ	ZZZZZZ	4/9/2008	15:03		4/9/2008	15:15
0409F013.D	ZZZZZZ	ZZZZZZ	4/9/2008	15:22		4/9/2008	15:34
0409F014.D	ZZZZZZ	ZZZZZZ	4/9/2008	15:41		4/9/2008	15:53
0409F015.D	ZZZZZZ	ZZZZZZ	4/9/2008	16:00		4/9/2008	16:12
0409F016.D	ZZZZZZ	ZZZZZZ	4/9/2008	16:20		4/9/2008	16:32
0409F017.D	ZZZZZZ	ZZZZZZ	4/9/2008	16:39		4/9/2008	16:51
0409F018.D	ZZZZZZ	ZZZZZZ	4/9/2008	16:58		4/9/2008	17:10
0409F019.D	ZZZZZZ	ZZZZZZ	4/9/2008	17:18		4/9/2008	17:30
0409F020.D	ZZZZZZ	ZZZZZZ	4/9/2008	17:37		4/9/2008	17:49
0409F021.D	ZZZZZZ	ZZZZZZ	4/9/2008	17:56		4/9/2008	18:08
0409F022.D	ZZZZZZ	ZZZZZZ	4/9/2008	18:15		4/9/2008	18:27

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796 **Date Extracted:** 04/04/2008

Extraction Prep Log 1,4-Dioxane by GC/MS

Extraction Method:METHODAnalysis Method:8270C SIM

Extraction Lot: KWG0803108 Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
KEP-GW-020A-003	K0802796-001	03/28/08	04/01/08	100ml	25ml	NA	
KEP-GW-020B-003	K0802796-002	03/28/08	04/01/08	100ml	25ml	NA	
Duplcate 2	K0802796-003	03/28/08	04/01/08	100ml	25ml	NA	
Method Blank	KWG0803108-3	NA	NA	100ml	25ml	NA	
Lab Control Sample	KWG0803108-1	NA	NA	100ml	25ml	NA	
Duplicate Lab Control Sample	KWG0803108-2	NA	NA	100ml	25ml	NA	

.

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Organic Analysis: <u>1,4-Dioxane by GC/MS</u>

Validation Package

Organic Analysis: <u>1,4-Dioxane by GC/MS</u>

Validation Package

QC Reports

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796

Surrogate Recovery Summary 1,4-Dioxane by GC/MS

Extraction Method:METHODAnalysis Method:8270C SIM

Units: PERCENT **Level:** Low

Sample Name	Lab Code	<u>Sur1</u>
KEP-GW-020A-003	K0802796-001	60
KEP-GW-020B-003	K0802796-002	62
Duplcate 2	K0802796-003	60
Method Blank	KWG0803108-3	63
Lab Control Sample	KWG0803108-1	56
Duplicate Lab Control Sample	KWG0803108-2	63

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8

55-100

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: Project: Environmental Chemistry Consulting Servi Kuhlman Electric

 Service Request:
 K0802796

 Date Analyzed:
 04/09/2008

 Time Analyzed:
 11:48

Internal Standard Area and RT Summary 1,4-Dioxane by GC/MS

File ID:	J:\MS20\DATA\040908\0409F002.D
Instrument ID:	MS20
Analysis Method:	8270C SIM

Lab Code:KWG0803281-2Analysis Lot:KWG0803281

		1,4-Dichlorobenzene-d4		
		Area	<u>RT</u>	
	Results ==>	81,877	8.40	
	Upper Limit ==>	163,754	8.90	
	Lower Limit ==>	40,939	7.90	
	ICAL Result ==>	85,840	8.43	
Associated Analyses				
Method Blank	KWG0803108-3	87,574	8.43	
Lab Control Sample	KWG0803108-1	89,704	8.39	
Duplicate Lab Control Sample	KWG0803108-2	88,375	8.42	
KEP-GW-020A-003	K0802796-001	85,128	8.40	
KEP-GW-020B-003	K0802796-002	86,772	8.40	
Duplcate 2	K0802796-003	89,528	8.43	

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Report

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric
Sample Matrix:	Water

 Service Request:
 K0802796

 Date Extracted:
 04/04/2008

 Date Analyzed:
 04/09/2008

Lab Control Spike/Duplicate Lab Control Spike Summary 1,4-Dioxane by GC/MS

Extraction Method: Analysis Method:	METHOD 8270C SIM							B L	evel:	NA
	_	KW	Control Samp VG0803108-1 Control Spik	l	Duplicate Lab Control Sample KWG0803108-2 Duplicate Lab Control Spike		%Rec		RPD	
Analyte Name		Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	~~~~~
1,4-Dioxane		16.0	25.0	64	17.6	25.0	70	56-107	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Method Blank

8270C SIM

KWG0803108-3

 Service Request:
 K0802796

 Date Extracted:
 04/04/2008

 Date Analyzed:
 04/09/2008

 Time Analyzed:
 12:08

Method Blank Summary 1,4-Dioxane by GC/MS

File ID: J:\MS20\DATA\040908\0409F003.D **Instrument ID:** MS20

Level: Low Extraction Lot: KWG0803108

This Method Blank applies to the following analyses:

Extraction Method: METHOD

Sample Name:

Analysis Method:

Lab Code:

			Date	Time
Sample Name	Lab Code	File ID	Analyzed	Analyzed
Lab Control Sample	KWG0803108-1	J:\MS20\DATA\040908\0409F004.D	04/09/08	12:27
Duplicate Lab Control Sample	KWG0803108-2	J:\MS20\DATA\040908\0409F005.D	04/09/08	12:46
KEP-GW-020A-003	K0802796-001	J:\MS20\DATA\040908\0409F006.D	04/09/08	13:05
KEP-GW-020B-003	K0802796-002	J:\MS20\DATA\040908\0409F007.D	04/09/08	13:26
Duplcate 2	K0802796-003	J:\MS20\DATA\040908\0409F008.D	04/09/08	13:46

QA/QC Report

Client:Environmental Chemistry Consulting ServiProject:Kuhlman ElectricSample Matrix:Water

Service Request: K0802796

Lab Control Sample/Duplicate Lab Control Sample Summary 1,4-Dioxane by GC/MS

Sample Name:	Lab Control Sample	Sample Name:	Duplicate Lab Control Sample
Lab Code:	KWG0803108-1	Lab Code:	KWG0803108-2
File ID:	J:\MS20\DATA\040908\0409F004.D	File ID:	J:\MS20\DATA\040908\0409F005.D
Instrument ID:	MS20	Instrument ID:	MS20
Date Extracted:	04/04/2008	Date Extracted:	04/04/2008
Date Analyzed:	04/09/2008	Date Analyzed:	04/09/2008
Time Analyzed:	12:27	Time Analyzed:	12:46

Extraction Method:METHODAnalysis Method:8270C SIM

Level: Low Extraction Lot: KWG0803108

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0803108-3	J:\MS20\DATA\040908\0409F003.D	04/09/08	12:08
KEP-GW-020A-003	K0802796-001	J:\MS20\DATA\040908\0409F006.D	04/09/08	13:05
KEP-GW-020B-003	K0802796-002	J:\MS20\DATA\040908\0409F007.D	04/09/08	13:26
Duplcate 2	K0802796-003	J:\MS20\DATA\040908\0409F008.D	04/09/08	13:46

1 of 1

Organic Analysis: <u>1,4-Dioxane by GC/MS</u>

Validation Package

Raw Data

Ampletical D ...14

			Analyti	cal Results						
Client: Project: Sample Matrix:	Environmental Chemi Kuhlman Electric Water	stry Co	nsulting Servi				Service Re Date Colle Date Rec	ected:	03/28/20	008
			1,4-Dioxar	e by GC/I	MS					
Sample Name: Lab Code:	KEP-GW-020A-003 K0802796-001							Units: Basis:	-	
Extraction Method: Analysis Method:	METHOD 8270C SIM]	Level:	Low	
Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed		raction Lot	Note
1,4-Dioxane	ND	U	0.50	0.260	1	04/04/08	04/09/08	KWG	0803108	
		Ga	stual D	- 4 -						

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	60	55-100	04/09/08	Acceptable	

 Data File:
 J:\MS20\DATA\040908\0409F006.D

 Lab ID:
 K0802796-001

 RunType:
 SMPL

 Matrix:
 WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID: 04/09/2008 13:05 04/10/2008 09:23 KWG0803281 8270C SIM LJ2865

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA ·	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	<u> </u>
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	X	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	X	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: 78 Secondary Review: _____

Quantitation Report

	tle ID: d Code:	8270C SIM 14_	DI	-	ier: Collect Date:	III 03/28	/2008	Matrix: Receive		WATER 04/01/20		
	alysis Lot: alysis Method:	KWG0803281 8270C SIM		F	rep Lot: rep Method	: METI		Report	Group:	K080279	96	
Pre	p Ref:	699168		ł	rep Date:	04/04	/2008					
Qu	ant Method:	J:\MS20\METH		XNDMA.M				Calibra		CAL723	3	
Titl		1,4-Dioxane by						Report	List ID:	LJ2865		
	1e Ref:	J:\MS20\DATA						Method	ID:	MJ402		
MB	Ref:	J:\MS20\DATA'	\040908\0409	9F003.D				Quant	based on F	Report Li	st	
Dat	a File:	J:\MS20\DATA	\040908\0409	9F006.D				Instrum	nent:	MS20		
	lu Date:	04/09/2008 13:	05	(Quant Date:	04/10	/2008 09:23	Vial:		26		
Ru	п Туре:	SMPL						Dilution	ı:	1.0		
								Soln Co	nc. Units:	ng/ml		
Lal	• ID:	K0802796-001						5001 C0	arc. Omis.	116/1111		
		K0802796-001 rd Compounds	5					5011 C0	are. Onus.	116/1111		
		rd Compounds	RT	RT Dev		Quant Mass	Response	Solution Conc	arc. Omts.		Area riteria	
Inte 15	rnal Standa	rd Compounds				•	Response 85128m	Solution	nc. Onus.	c		
Inte IS Ref	<i>rnal Standa</i> Parameter Na	rd Compounds	RT	Dev		Mass	-	Solution Conc	ne. onus.	c	riteria	
Inte IS Ref Suri	rnal Standa Parameter Na 1,4-Dichlorol	rd Compounds mme benzene-d4 pounds	RT	Dev	RRT Dev	Mass	-	Solution Conc	%Rec	c	riteria	Rpt?
Inte IS Ref Suri IS Ref	rnal Standa Parameter Na 1,4-Dichlorol rogate Comp	rd Compounds nme benzene-d4 counds nme	RT 8.40	Dev 0.00? RT		Mass 152 Quant	85128 m	Solution Conc 50.00 Solution		C %Rec	riteria	Rpt?
Inte IS Ref Suri IS Ref	rnal Standa Parameter Na 1,4-Dichlorol rogate Comp Parameter Na	rd Compounds	RT 8.40 RT	Dev 0.00? RT Dev	Dev	Mass 152 Quant Mass	85128m Response 42736m	Solution Conc 50.00 Solution Conc	%Rec	C %Rec Limits	riteria OK	Rpt?
Inte IS Ref IS Ref I Tar ₂ IS	rnal Standa Parameter Na 1,4-Dichlorol rogate Comp Parameter Na 1,4-Dioxane- get Compour	rd Compounds me benzene-d4 counds me d8 nds	RT 8.40 RT 6.66	Dev 0.00? RT Dev -0.01 RT	Dev 0.00 RRT	Mass 152 Quant Mass 96 QuantM	85128m Response 42736m Final (Solution Conc 50.00 Solution Conc 60.40 Conc. Units: Solution	%Rec 60 ug/L Fina	C %Rec Limits 55-100	oK OK	
Inte IS Ref IS Ref I Tar <u>s</u> IS Ref	rnal Standa Parameter Na 1,4-Dichlorol rogate Comp Parameter Na 1,4-Dioxane- get Compour Parameter Na	rd Compounds me benzene-d4 counds me d8 nds	RT 8.40 RT 6.66 RT	Dev 0.00? RT Dev -0.01 RT Dev	Dev 0.00 RRT Dev	Mass 152 Quant Mass 96 QuantM ass	85128m Response 42736m Final (Response	Solution Conc 50.00 Solution Conc Conc. Units: Solution Conc	%Rec 60 ug/L Fina Con	C %Rec Limits 55-100	OK OK OK Q	Rpt? Rpt?
Inte IS Ref IS Ref I Tar ₂ IS	rnal Standa Parameter Na 1,4-Dichlorol rogate Comp Parameter Na 1,4-Dioxane- get Compour	rd Compounds me benzene-d4 counds me d8 nds	RT 8.40 RT 6.66	Dev 0.00? RT Dev -0.01 RT	Dev 0.00 RRT	Mass 152 Quant Mass 96 QuantM	85128m Response 42736m Final (Solution Conc 50.00 Solution Conc 60.40 Conc. Units: Solution	%Rec 60 ug/L Fina	C %Rec Limits 55-100	oK OK	
Inte IS Ref Surr IS Ref IS Ref 1 IS Ref	rnal Standa Parameter Na 1,4-Dichlorol rogate Comp Parameter Na 1,4-Dioxane- get Compour Parameter Na	rd Compounds me benzene-d4 counds me d8 nds	RT 8.40 RT 6.66 RT	Dev 0.00? RT Dev -0.01 RT Dev	Dev 0.00 RRT Dev	Mass 152 Quant Mass 96 QuantM ass	85128m Response 42736m Final (Response	Solution Conc 50.00 Solution Conc Conc. Units: Solution Conc	%Rec 60 ug/L Fina Con	C %Rec Limits 55-100	OK OK OK Q	

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/10/2008 09:55:00 $u:\Stealth\Crystal.rpt\quantl.rpt$

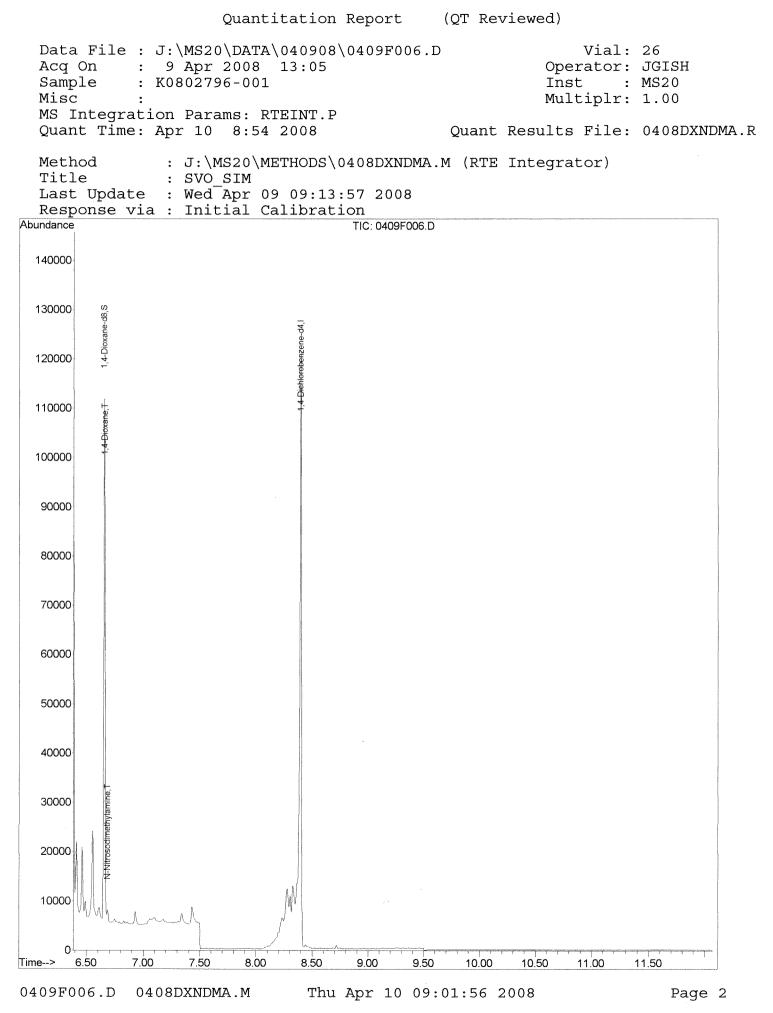
D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

- *: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

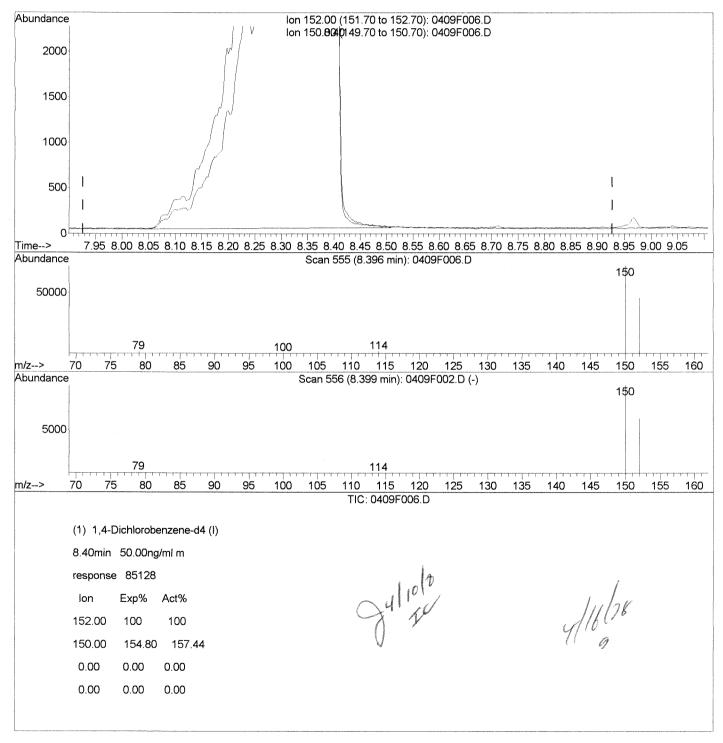
J:\MS20\DATA\040908\0409F006.D 288

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F006.D Vial: 26 Acq On : 9 Apr 2008 13:05 Operator: JGISH Sample : K0802796-001 Misc : Inst : MS20 Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 08:53:01 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QIon Response Conc Units Dev(Min) 8.40 152 85128m 50.00 ng/ml -0.03 1) 1,4-Dichlorobenzene-d4 System Monitoring Compounds 3) 1, 4-Dioxane-d8 6.66 96 42736m 60.40 ng/ml -0.03 Spiked Amount 50.000 Recovery = 120.80% 0 0.00 ng/ml 5) NDMA-d6 0.00 80 Spiked Amount 50.000 Recovery = 0.00% Target Compounds Ovalue 6.67 88 624 0.72 ng/ml $\tilde{\#}$ 65 2) 1,4-Dioxane 4) N-Nitrosodimethylamine 6.69 74 0.60 ng/ml# 752 40

(#) = qualifier out of range (m) = manual integration 0409F006.D 0408DXNDMA.M Thu Apr 10 09:01:55 2008 Page 1



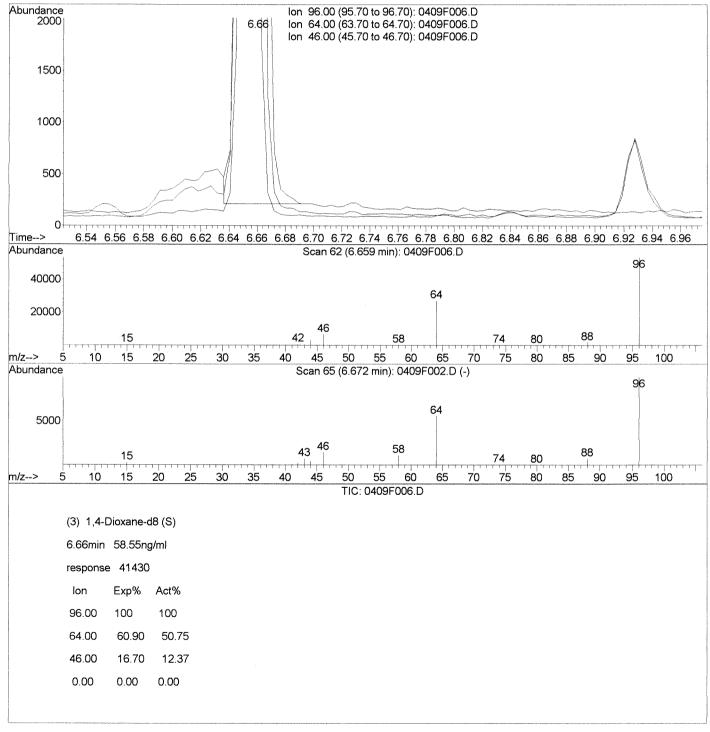
Quantitation Report (Qedit) Data File : J:\MS20\DATA\040908\0409F006.D Vial: 26 Acq On 9 Apr 2008 : 13:05 **Operator: JGISH** Sample : K0802796-001 Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 8:54 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Multiple Level Calibration



0409F006.D 0408DXNDMA.M

Thu Apr 10 08:54:31 2008

Quantitation Report (Qedit) Data File : J:\MS20\DATA\040908\0409F006.D Vial: 26 Acq On 9 Apr 2008 13:05 : **Operator: JGISH** Sample : K0802796-001 : MS20 Inst Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 8:54 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title SVO SIM : Last Update : Wed Apr 09 09:13:57 2008 Response via : Multiple Level Calibration



```
Quantitation Report (Qedit)
Data File : J:\MS20\DATA\040908\0409F006.D
                                                                            Vial: 26
                                13:05
                9 Apr 2008
Acq On
             :
                                                                       Operator: JGISH
Sample
             : K0802796-001
                                                                       Inst
                                                                                  : MS20
Misc
                                                                       Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 10 8:54 2008
                                                          Quant Results File: temp.res
Method
                  : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator)
Title
                  : SVO SIM
                 : Wed Apr 09 09:13:57 2008
Last Update
Response via : Multiple Level Calibration
 Abundance
                                        lon 96.00 (95.70 to 96.70); 0409F006.D
                                        Ion 64.00 (63.7616664 70): 0409F006.D
      500
                                        Ion 46.00 (45.70 to 46 70): 0409F006.D
      400
      300
      200
      100
       0
                                           Time--> 6.55 6.56 6.57 6.58 6.59 6.60 6.61 6.62 6.63 6.64 6.65 6.66 6.67 6.68 6.69 6.70 6.71 6.72 6.73 6.74 6.75 6.76 6.77
 Abundance
                                          Scan 62 (6.659 min): 0409F006.D
                                                                                         96
    40000
                                                            64
    20000
                                             46
                                                                                  88
                                         42
                 15
                                                       58
                                                                     74
                                                                           80
 m/z-->
                 15
                                            45
                                                         60
                                                                      75
                                                                           80
                                                                                            100
        5
            10
                     20
                          25
                                   35
                                       40
                                                50
                                                    55
                                                             65
                                                                               85
                                                                                    90
                                                                                        95
                              30
                                                                  70
 Abundance
                                          Scan 65 (6.672 min): 0409F002.D (-)
                                                                                         96
                                                            64
     5000
                                            46
                                                       58
                                          43
                                                                                  88
                 15
                                                                     74
                                                                           80
                                         -++-
 m/z-->
        5
            10
                 15
                     20
                          25
                              30
                                   35
                                       40
                                            45
                                                50
                                                    55
                                                         60
                                                                  70
                                                                      75
                                                                           80
                                                                               85
                                                                                    90
                                                             65
                                                                                        95
                                                                                            100
                                                TIC: 0409F006.D
         (3) 1,4-Dioxane-d8 (S)
         6.66min 60.40ng/ml m
         response 42736
                                                          Juliota 4/16/28
                Exp%
                      Act%
          lon
         96.00
                100
                      100
         64.00
                60.90
                      50.75
          46.00
                16.70
                      12.37
          0.00
                0.00
                      0.00
```

0409F006.D 0408DXNDMA.M

Thu Apr 10 08:55:02 2008

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Collected:	03/28/2008
Sample Matrix:	Water	Date Received:	04/01/2008

1,4-Dioxane by GC/MS

Sample Name: Lab Code:	KEP-GW-020B-003 K0802796-002							U nits: ug/L Basis: NA	
Extraction Method: Analysis Method:	METHOD 8270C SIM]	Level: Low	
Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	0.64		0.50	0.260	1	04/04/08	04/09/08	KWG0803108	
Surrogate Name	%Rec	Control Limits		ate lyzed	Note				
1,4-Dioxane-d8	62	55-100	04/0	09/08	Acceptable				

Comments:

Data File:	J:\MS20\DATA\040908\0409F007.D
Lab ID:	K0802796-002
RunType:	SMPL
Matrix:	WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID: 04/09/2008 13:26 04/10/2008 08:55 KWG0803281 8270C SIM LJ2865

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	X	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	X	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

4/10 Primary Review: Secondary Review: Y.

Quantitation Report

	ttle ID: od Code:				fier: Collect Date:	III 03/28	/2008		Matrix: Receive Date:		WATER 04/01/2008	
An	alysis Lot: alysis Method:	KWG0803281 8270C SIM		I	Prep Lot: Prep Method Prep Date:	ethod: METHOD		Report Group:		K0802796		
Pre	p Ref:	699169		-		0 // 0 //	2000					
Qu	ant Method:	J:\MS20\METH	ODS\0408D	XNDMA.M	[Calibra	tion ID:	CAL723	3	
Title: 1,4-Dioxane by GC/MS							Report	List ID:	LJ2865			
Tu	ne Ref:	J:\MS20\DATA	\040908\0409	9F001.D				Method	I ID:	MJ402		
MF	B Ref:	J:\MS20\DATA	\040908\0409	9F00 3 .D				Quant	based on	Report Li	st	
Dat	ta File:	J:\MS20\DATA	\040908\0409	9F007.D				Instrun	nent:	MS20		
Acc	Acqu Date: 04/09/2008 13:26			Juant Date:	04/10	/2008 08:55	Vial:	Vial:				
Ru	п Туре:	SMPL						Dilution	1:	1.0		
								Soln Co	onc. Units:	ng/ml		
	b ID:	K0802796-002						Som et	ли. Ошиз.	нь/шп		
La		K0802796-002 rd Compounds	3		<u></u>				лк. ошіз.			
La Inte IS	rnal Standa	rd Compounds		RT Dev		Quant	Response	Solution			Area	
La Inte		rd Compounds	RT 8.40	RT Dev 0.00?		Quant Mass 152	Response 86772m		лк. оннз.	c	Area riteria	
La Inte IS Ref	r <i>nal Standa.</i> Parameter Na	rd Compounds me penzene-d4	RT	Dev		Mass		Solution Conc		c	riteria	
Lal Inte IS Ref Suri	Parameter Na 1,4-Dichlorol	rd Compounds me penzene-d4 pounds	RT	Dev	RRT Dev	Mass		Solution Conc	%Rec	c	riteria	Rpt?
Lal Inte IS Ref Sur IS Ref	Parameter Na Parameter Na 1,4-Dichlorot rogate Comp	rd Compounds me benzene-d4 bounds me	RT 8.40	Dev 0.00? RT		Mass 152 Quant	86772 m	Solution Conc 50.00 Solution		C %Rec	riteria OK	Rpt?
La Inte IS Ref IS Ref 1	Parameter Na 1,4-Dichlorob rogate Comp Parameter Na	rd Compounds me benzene-d4 bounds me d8	RT 8.40 RT	Dev 0.00? RT Dev	Dev	Mass 152 Quant Mass	86772 m Response 44517 m	Solution Conc 50.00 Solution Conc	%Rec	C %Rec Limits	riteria OK	Rpt?
Lal Inte IS Ref IS Ref I Tarz	Parameter Na 1,4-Dichlorob rogate Comp Parameter Na 1,4-Dioxane- get Compour	rd Compounds me penzene-d4 pounds me d8 nds	RT 8.40 RT 6.66	Dev 0.00? RT Dev	Dev	Mass 152 Quant Mass	86772 m Response 44517 m	Solution Conc 50.00 Solution Conc 61.72	%Rec 62	%Rec Limits 55-100	OK OK	Rpt?
Lal Inte IS Ref IS Ref I Tar	Parameter Na 1,4-Dichlorob rogate Comp Parameter Na 1,4-Dioxane- get Compour Parameter Na	rd Compounds me penzene-d4 pounds me d8 nds	RT 8.40 RT 6.66 RT	Dev 0.00? RT Dev -0.01 RT Dev	Dev	Mass 152 Quant Mass 96 QuantM ass	86772 m Response 44517 m	Solution Conc 50.00 Solution Conc 61.72 Conc. Units: Solution Conc	%Rec 62 ug/L	C %Rec Limits 55-100	riteria OK	Rpt?
Lal Inte IS Ref IS Ref I Tarz	Parameter Na 1,4-Dichlorob rogate Comp Parameter Na 1,4-Dioxane- get Compour	rd Compounds me penzene-d4 pounds me d8 nds	RT 8.40 RT 6.66	Dev 0.00? RT Dev -0.01 RT	Dev 0.00 RRT	Mass 152 Quant Mass 96 QuantM	86772m Response 44517m Final C	Solution Conc 50.00 Solution Conc 61.72 Conc. Units: Solution	%Rec 62 ug/L Fin	C %Rec Limits 55-100 nc	OK OK	
Lal Inte IS Ref IS Ref I IS Ref IS Ref	Parameter Na 1,4-Dichlorob rogate Comp Parameter Na 1,4-Dioxane- get Compour Parameter Na	rd Compounds me penzene-d4 pounds me d8 nds	RT 8.40 RT 6.66 RT	Dev 0.00? RT Dev -0.01 RT Dev	Dev 0.00 RRT Dev	Mass 152 Quant Mass 96 QuantM ass	86772m Response 44517m Final C Response	Solution Conc 50.00 Solution Conc 61.72 Conc. Units: Solution Conc	%Rec 62 ug/L Fin Co	C %Rec Limits 55-100 nc	OK OK	

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL

B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/10/2008 09:55:06 $u: \talth\crystal.rpt\quantl.rpt$

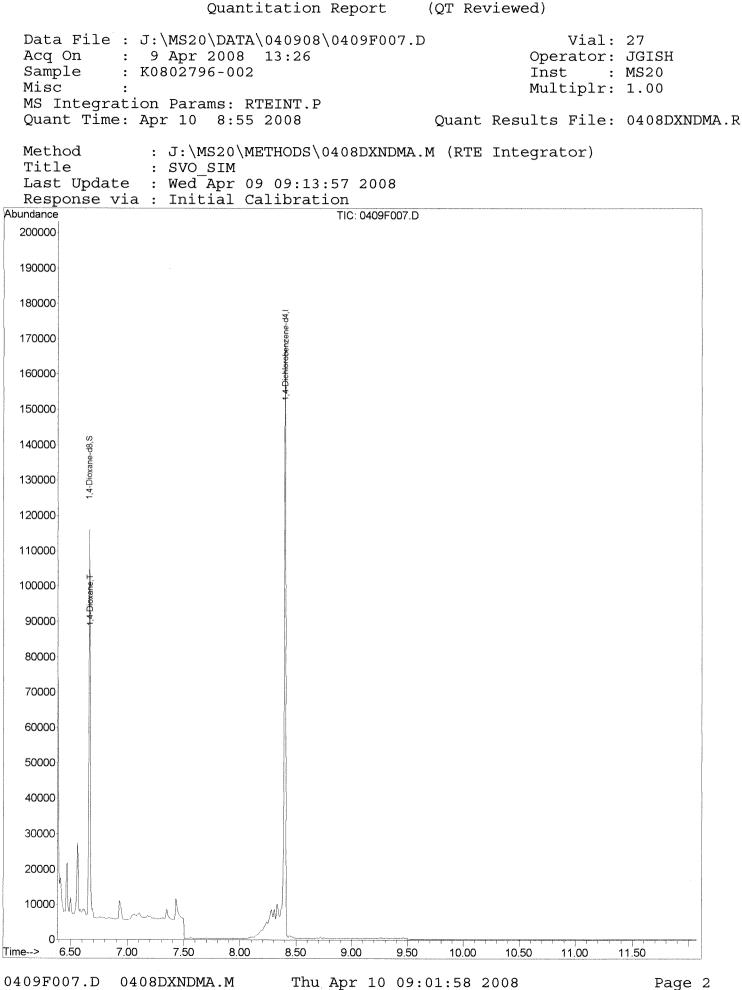
D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria

c: check for co-elution

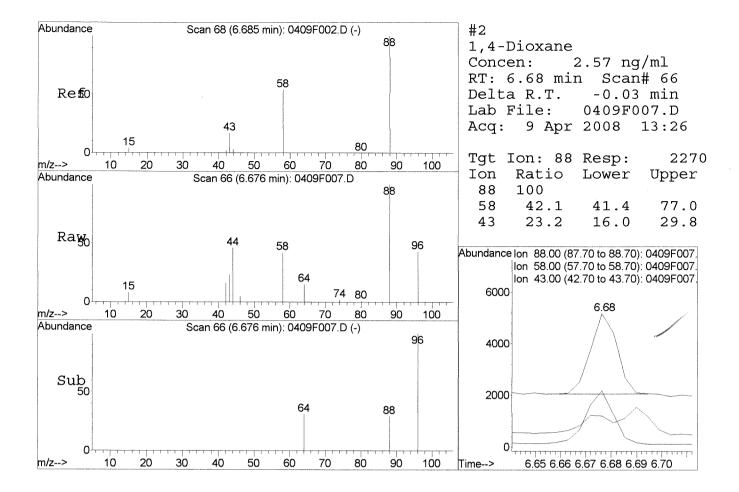
J:\MS20\DATA\040908\0409F007.D 296

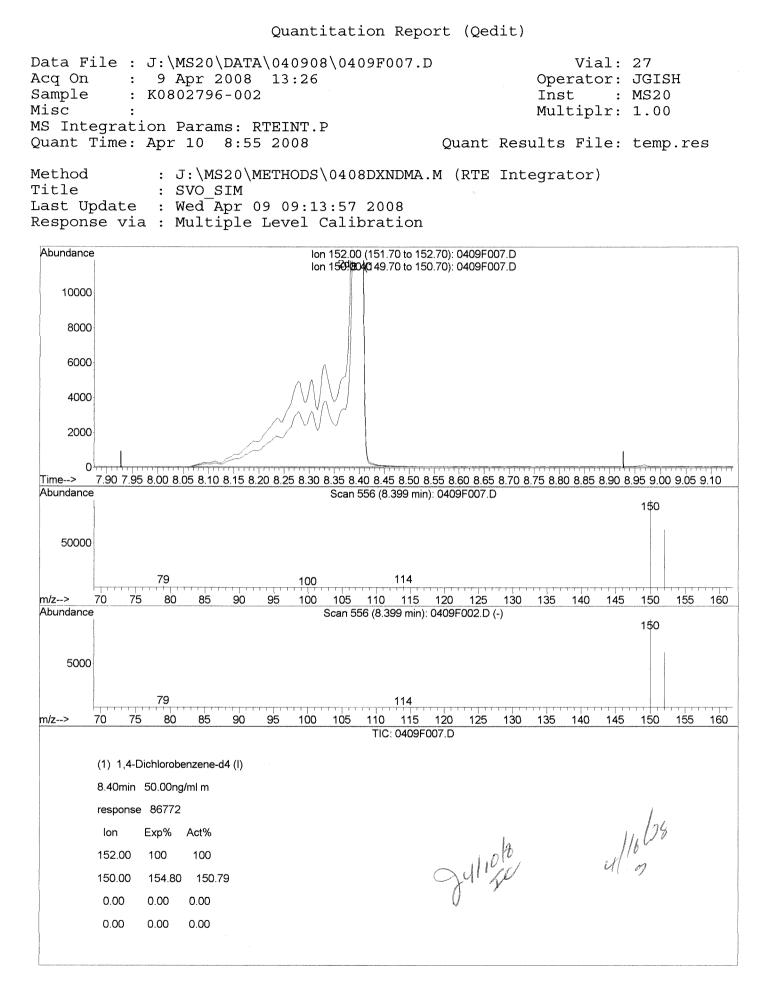
Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F007.D Vial: 27 Acq On : 9 Apr 2008 13:26 Operator: JGISH Sample : K0802796-002 Inst : MS20 Misc Multiplr: 1.00 : MS Integration Params: RTEINT.P Quant Time: Apr 10 08:53:01 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) : SVO SIM Title Last Update : Wed Apr 09 09:13:57 2008 Response via : Initial Calibration DataAcg Meth : DIOXNDMA Internal Standards R.T. QION Response Conc Units Dev(Min) 8.40 152 86772m 1) 1,4-Dichlorobenzene-d4 50.00 ng/ml -0.03 System Monitoring Compounds 3) 1,4-Dioxane-d8 6.66 96 44517m 61.72 ng/ml -0.03 Spiked Amount 50.000 Recovery = 123.44% 5) NDMA-d6 0.00 80 0 0.00 ng/ml Spiked Amount 50.000 Recovery = 0.00%Target Compounds Qvalue 2) 1, 4-Dioxane 6.68 2270 88 2.57 ng/ml 83



298

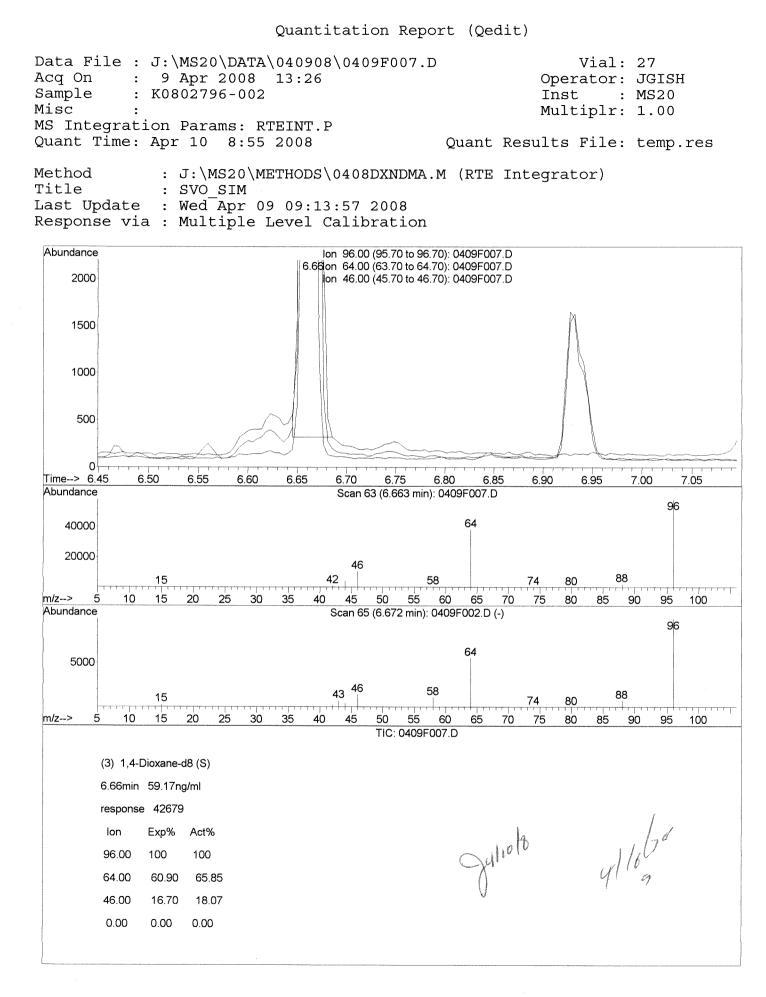
Page 2





0409F007.D 0408DXNDMA.M

Thu Apr 10 08:55:15 2008

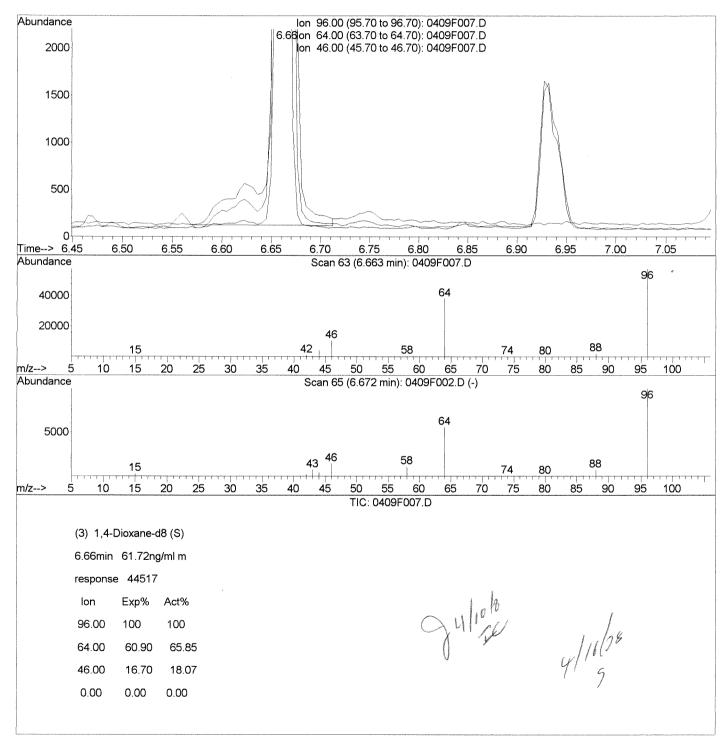


0409F007.D 0408DXNDMA.M

Thu Apr 10 08:55:30 2008

Data File : J:\MS20\DATA\040908\0409F007.D Vial: 27 Acq On 9 Apr 2008 13:26 **Operator: JGISH** : Sample : K0802796-002 Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 8:55 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Multiple Level Calibration

Quantitation Report (Qedit)



0409F007.D 0408DXNDMA.M

Thu Apr 10 08:55:39 2008

COLUMBIA ANALYTICAL SERVICES, INC.

			Analytic	al Results	5					
Client: Project: Sample Matrix:	Environmental Chemi Kuhlman Electric Water									96)08)08
		1	,4-Dioxan	e by GC	/MS			a		
Sample Name: Lab Code:	Duplcate 2 K0802796-003							Units: Basis:	-	
Extraction Method: Analysis Method:	METHOD 8270C SIM							Level:	Low	
Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed		raction Lot	Note
1,4-Dioxane	ND	U	0.50	0.260	1	04/04/08	04/09/08	KWG	0803108	
Surrogate Name	%Rec	Control Limits		ate lyzed	Note					
1,4-Dioxane-d8	60	55-100		9/08	Acceptable		<u>,</u>		<u></u>	

Comments:

Page

Data File:	J:\MS20\DATA\040908\0409F008.D
Lab ID:	K0802796-003
RunType:	SMPL
Matrix:	WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID: 04/09/2008 13:46 04/10/2008 08:56 KWG0803281 8270C SIM LJ2865

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	ш <u>. </u> ,
Duplicate Lab Control Spike	NA	NA	NA	X	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _________

Quantitation Report

	tle ID: d Code:	8270C SIM 14_			Fier: Collect Date	III : 03/28	/2008	Matrix: Receive		WATER 04/01/2008		
Ana	ılysis Lot: ılysis Method: p Ref:	KWG0803281 8270C SIM 699170]	Prep Lot: Prep Methoe Prep Date:	Method: METHOD		Report	Group:	K0802796		
Titl Tun	nnt Method: e: ne Ref: Ref:	J:\MS20\METH 1,4-Dioxane by J:\MS20\DATA J:\MS20\DATA	GC/MS \040908\0409	9F001.D	1			Report Method	tion ID: List ID: I ID: based on F	CAL723 LJ2865 MJ402 Report Li	-	
Acq Rur	a File: u Date: 1 Type:) ID:	J:\MS20\DATA 04/09/2008 13: SMPL K0802796-003			Quant Date:	04/10	/2008 08:56	Instrun Vial: Dilutior Soln Co		MS20 28 1.0 ng/ml		
Inter IS Ref	rnal Standar Parameter Na	rd Compounds	RT	RT Dev	NO. 0	Quant Mass	Response	Solution Conc			Area Friteria	
l	1,4-Dichlorot		8.43	0.03?		152	89528m	50.00			OK	
Surr	ogate Comp	ounds										
IS Ref	Parameter Na	me	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	1,4-Dioxane-	d8	6.68	0.01	0.00	96	44493 m	59.79	60	55-100	OK	
Targ	get Compour	ıds					Final C	Conc. Units:	ug/L			
IS Ref	Parameter Na	me	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fina Con		Q	Rpt?
1	1,4-Dioxane		6.70	0.01	0.00	88	873	0.9600	0.26	0	U	
-	p Amount: p Final Vol:	100 ml 25 ml		Dilution: Unit Fact	or:	1.0 1						

Final Concentration =

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL

B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

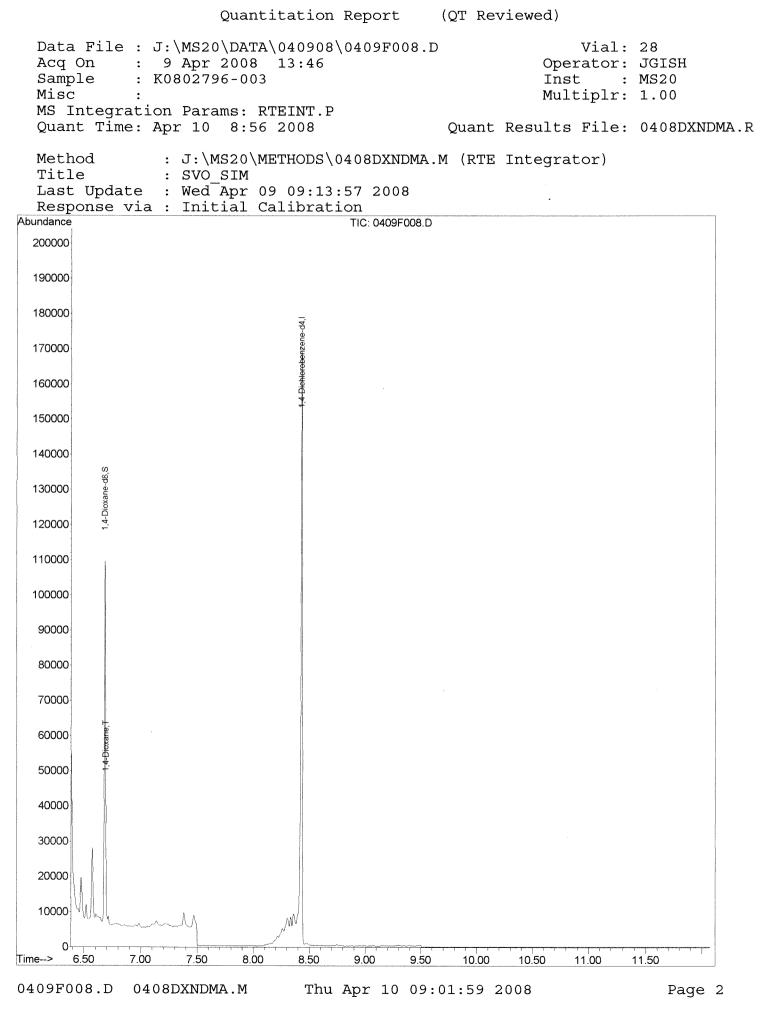
Printed: 04/10/2008 09:55:11 $u: \stealth \crystal.rpt \quant l.rpt$

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

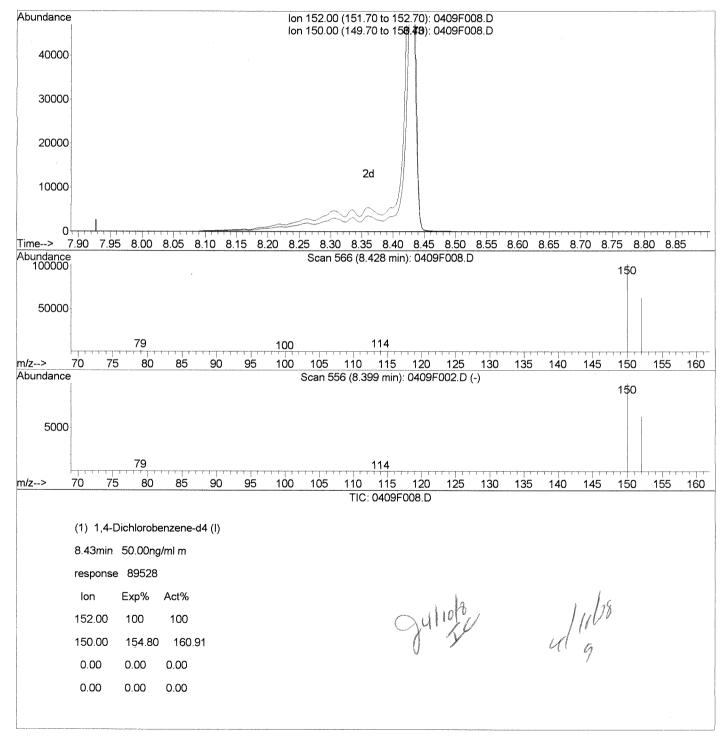
- *: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS20\DATA\040908\0409F008.D 305

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F008.D Vial: 28 Acq On : 9 Apr 2008 13:46 Sample : K0802796-003 Operator: JGISH Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 08:53:01 2008 Ouant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title: SVO_SIMLast Update: Wed Apr 09 09:13:57 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QION Response Conc Units Dev(Min) 1) 1,4-Dichlorobenzene-d4 8.43 152 89528m 50.00 ng/ml 0.00 System Monitoring Compounds 3) 1, 4-Dioxane-d8 6.68 96 44493m 59.79 ng/ml 0.00 Recovery = 119.58% Spiked Amount 50.000 5) NDMA-d6 0.00 80 0 0.00 ng/ml Spiked Amount 50.000 Recovery = 0.00% Target Compounds Qvalue 2) 1, 4-Dioxane 6.70 88 873 0.96 ng/ml# 62

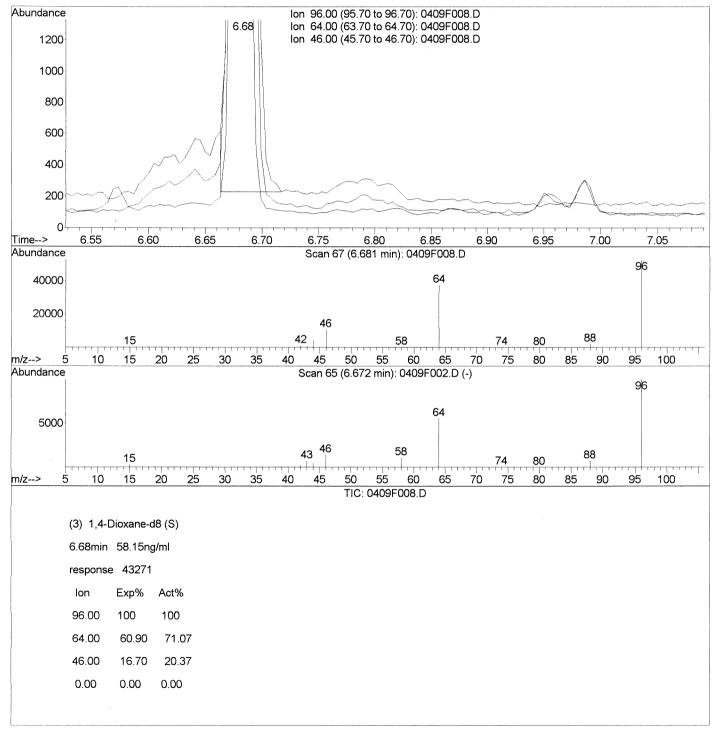


Quantitation Report (Qedit) Data File : J:\MS20\DATA\040908\0409F008.D Vial: 28 Acq On : 9 Apr 2008 Operator: JGISH 13:46 Sample : K0802796-003 Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 8:55 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Multiple Level Calibration

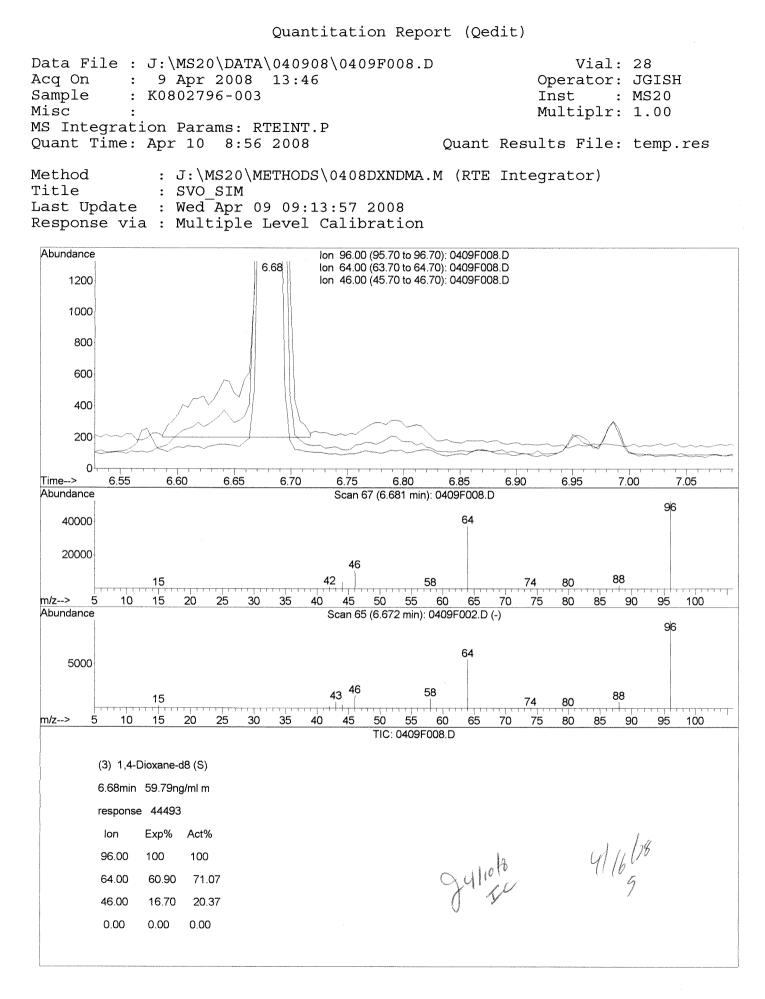


0409F008.D 0408DXNDMA.M

Quantitation Report (Qedit) Data File : J:\MS20\DATA\040908\0409F008.D Vial: 28 Acq On 9 Apr 2008 13:46 **Operator: JGISH** : Sample : K0802796-003 : MS20 Inst Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 8:55 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Multiple Level Calibration



0409F008.D 0408DXNDMA.M



0409F008.D 0408DXNDMA.M

Thu Apr 10 08:56:26 2008

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	NA
Project:	Kuhlman Electric	Date Collected:	
Sample Matrix:	Water	Date Received:	

1,4-Dioxane by GC/MS

Sample Name: Lab Code:	Method Blank KWG0803108-3							Units: ug/L Basis: NA	
Extraction Method: Analysis Method:	METHOD 8270C SIM]	Level: Low	
Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND	U	0.50	0.260	1	04/04/08	04/09/08	KWG0803108	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	63	55-100	04/09/08	Acceptable

Comments:

Merged

 Data File:
 J:\MS20\DATA\040908\0409F003.D

 Lab ID:
 KWG0803108-3

 RunType:
 MB

 Matrix:
 WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: MethodJoinID: 04/09/2008 12:08 04/09/2008 12:30 KWG0803281 8270C SIM MJ402

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	X	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	X	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	х	

k oto 2796 2830

10 Primary Review: Secondary Review: 69 49

Printed: 04/10/2008 09:57:19 u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

				~							
Bottle ID: Prod Code:	8270C SIM 14_	DI		ier: Collect Date:			Matrix Receiv		WATER 04/08/20	1	
Analysis Lot: Analysis Method: Prep Ref:	KWG0803281 8270C SIM 699175		F	rep Lot: rep Method rep Date:			Report	Group:		an - Υποιτικά του κατάλο της παριοχορισμό θη καλά άλου - ο Στορρουρισμού Το ποιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιο	
Quant Method: Title:	J:\MS20\METH	ODS\0408D	XNDMA.M				Calibra	ation ID:	CAL723	3	
Tune Ref: MB Ref:	J:\MS20\DATA	\040908\0409	9F001.D				Metho Quant	d ID: : based on 1	MJ402 Method	rin roman and r	
Data File: Acqu Date: Run Type: Lab ID:	J:\MS20\DATA 04/09/2008 12: MB KWG0803108-2	08		Quant Date:	04/09	/2008 12:30	Instrur Vial: Dilutio Soln C		MS20 23 1.0 ng/ml		
nternal Standa ef Parameter Na	<u>^</u>	RT	RT Dev		Quant Mass	Domoro	Solution Conc			Area	
1,4-Dichlorol		8.43	0.03?		152	Response 87574m	50.00			riteria OK	
urrogate Comp	oounds									I	
S lef Parameter Na	ıme	RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits	Ì	Rpt
1,4-Dioxane-		6.70	0.03	0.00	96	45697	62.78	63	55-100	OK	
arget Compour	nds					Final C	Conc. Units:	ug/L		:	
IS Ref Parameter Na	ıme	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fin: Cor		Q	Rpt
1 1,4-Dioxane					88	0d		0.26	50	U	
Prep Amount: Prep Final Vol:	100 ml 25 ml		Dilution: Unit Facto	or:	1.0					M.e	

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank

E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

D: Result from dilution m: Manual integration performed d: Compound manually deleted

NR: Analyte not reported from this analysis

*: Result fails acceptance criteria

Acceptance criteria not applicable
 Sceptance and applicable
 Result >= MRL, but MRL less than low point of ICAL

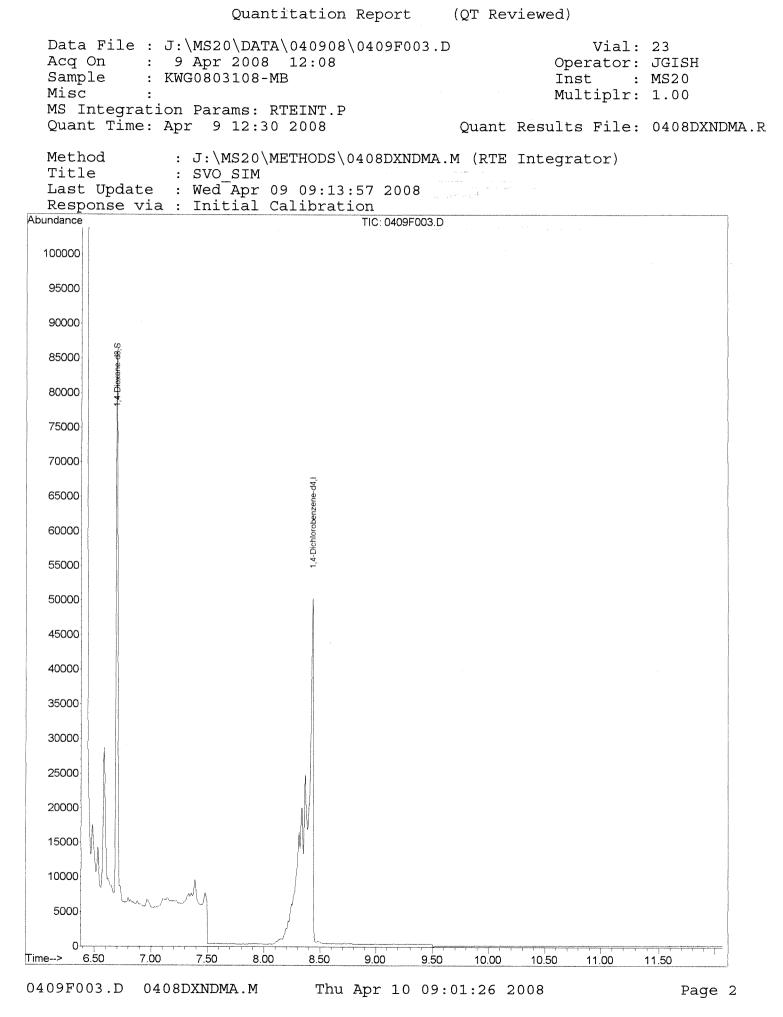
c: check for co-elution

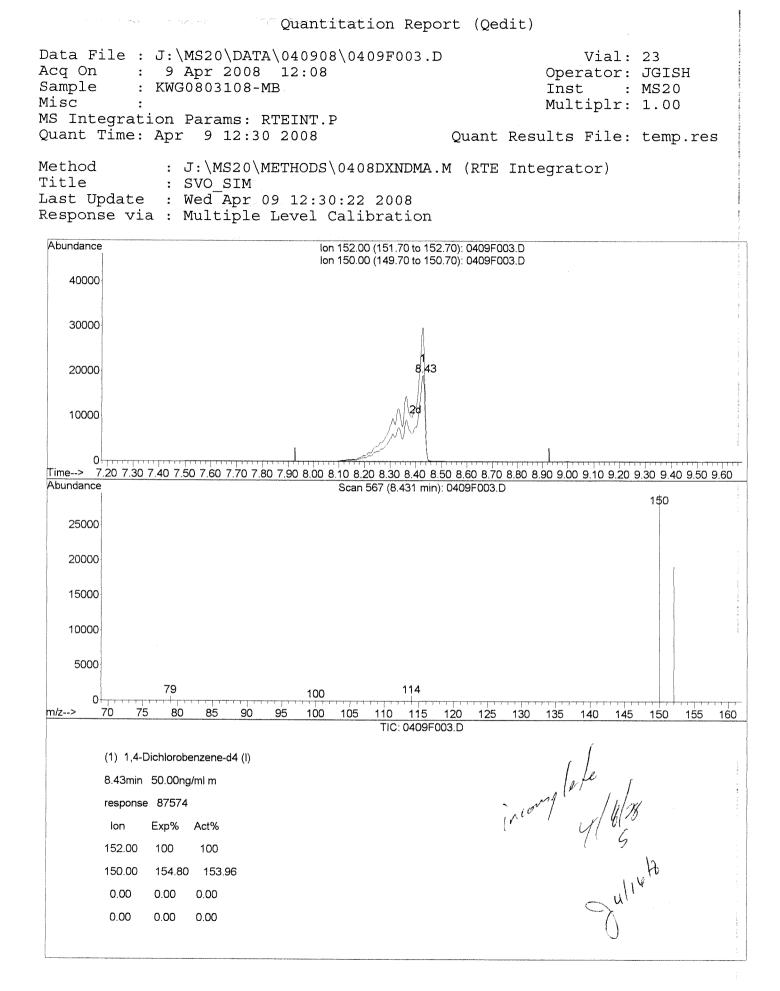
J:\MS20\DATA\040908\0409F003,D

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F003.D Vial: 23 Acq On : 9 Apr 2008 12:08 Sample : KWG0803108-MB Operator: JGISH Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 09 12:30:32 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM and a second sec Last Update : Wed Apr 09 12:30:22 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QION Response Conc Units Dev(Min) 1) 1,4-Dichlorobenzene-d4 8.43 152 87574m 50.00 ng/ml 0.00 System Monitoring Compounds 6.70 96 45697 62.78 ng/ml 0.00 3) 1,4-Dioxane-d8 Recovery = 125.56% 0 0.00 ng/ml Spiked Amount 50.000 0.00 80 5) NDMA-d6 Recovery = 0.00%Spiked Amount 50.000

Target Compounds

Qvalue





0409F003.D 0408DXNDMA.M

Wed Apr 09 12:30:43 2008

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

	1,4-Dioxane	16.0	0.50	0.260	1	04/04/08	04/09/08	KWG080	3108	
	Analyte Name	Result			Dilution Factor	Date Extracted	Date Analyzed	Extract Lot		Note
	Extraction Method: Analysis Method:	METHOD 8270C SIM					Ι	Level: Lo	ow	
	Sample Name: Lab Code:	Lab Control Sample KWG0803108-1						Units: ug Basis: N.		
,			1,4-Dio	oxane by GC/	MS					
	Client: Project: Sample Matrix:	Environmental Chemi Kuhlman Electric Water	stry Consulting Se	rvi			Service Rec Date Colle Date Rece	ected: N.		6

Surrogate Name%RecLimitsAnalyzedNote1,4-Dioxane-d85655-10004/09/08Acceptable

Comments:

Merged

الدعورية مداليتية ويورونهم لأراج الأراك

 Data File:
 J:\MS20\DATA\040908\0409F004.D

 Lab ID:
 KWG0803108-1

 RunType:
 LCS

 Matrix:
 WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: MethodJoinID: 04/09/2008 12:27 04/10/2008 08:53 KWG0803281 8270C SIM MJ402

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

K 2796 2880

Koio 2746 2220

4/10/8 Primary Review: 28 Secondary Review: Co 4/ 16

Quantitation Report

1	tle ID: d Code:	8270C SIM 14_	DI		Tier: Collect Date:			Matrix: Receive		WATER 04/08/20		
Anal	lysis Lot: lysis Method: o Ref:	KWG0803281 8270C SIM 699173			Prep Lot: Prep Method Prep Date:			Report	Group:			
Qua Title	nt Method:	J:\MS20\METH	ODS\0408D	XNDMA.N	M		Anno ann an Anna an Ann Anna an Anna an Anna an Anna an	Calibra	tion ID:	CAL723	3	
1	e Ref:	J:\MS20\DATA\ J:\MS20\DATA\						Method Quant	ID: based on N	MJ402 lethod		
Acqı	a File: u Date: Type: ID:	J:\MS20\DATA\ 04/09/2008 12:2 LCS KWG0803108-1	27	9F004.D	Quant Date:	04/10	/2008 08:53	Instrum Vial: Dilutior Soln Co		MS20 24 1.0 ng/ml		
Inter	rnal Standar	rd Compounds										
IS Ref	Parameter Na	me	RT	RT Dev		Quant Mass	Response	Solution Conc			Area riteria	
	1,4-Dichlorob		8.39	-0.01?		152	8 9704 m	50.00			OK	
IS	Parameter Na		RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1	1,4-Dioxane-o	18	6.65	-0.02	0.00	96	41872	56.16	56	55-100	OK	
Targ	et Compour	ıds					Final (Conc. Units:	ug/L			
IS Ref	Parameter Na	me	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fina Cone		Q	Rpt?
1	1,4-Dioxane		6.66	-0.03	0.00	88	58585	64.17	16.0)		
-) Amount:) Final Vol:	100 ml 25 ml		Dilution: Unit Fac		1.0 1						

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL

C: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/10/2008 09:54:35 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance

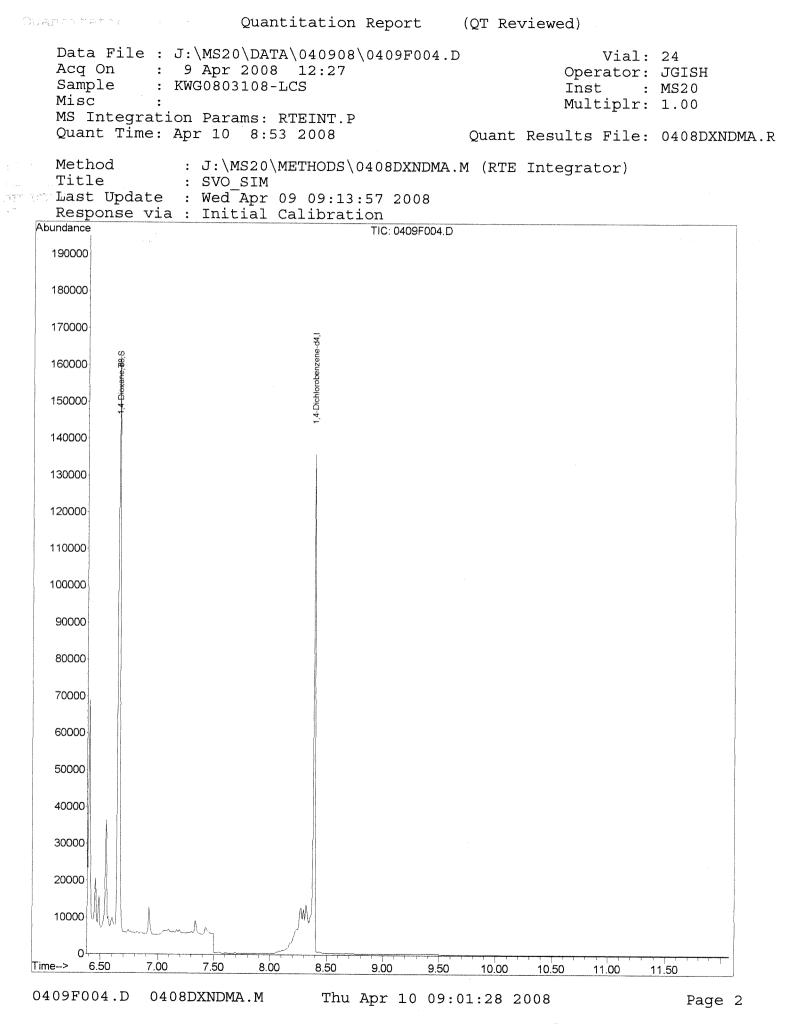
e: Result >= MRL, but MRL less than low point of ICAL

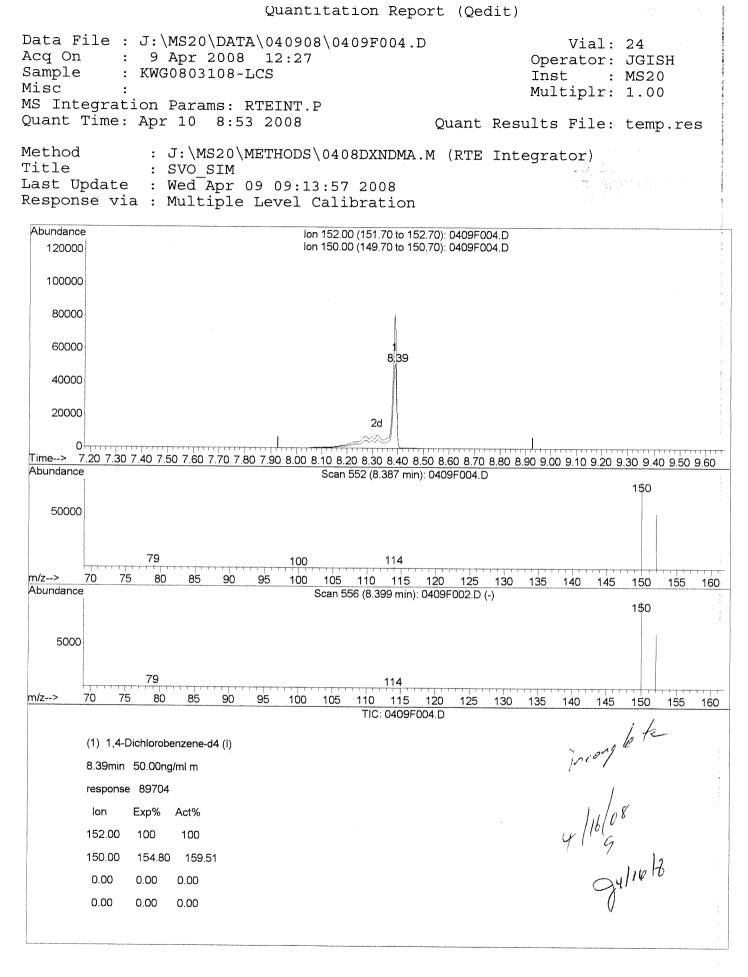
c: check for co-elution

J:\MS20\DATA\040908\0409F004.D

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F004.D Vial: 24 Acq On : 9 Apr 2008 12:27 Sample : KWG0803108-LCS Misc : Operator: JGISH Inst : MS20 Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 08:53:00 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA R.T. QION Response Conc Units Dev(Min) Internal Standards 1) 1,4-Dichlorobenzene-d4 8.39 152 89704m 50.00 ng/ml -0.04 System Monitoring Compounds 6.65 96 41872 56.16 ng/ml -0.04 3) 1,4-Dioxane-d8 Spiked Amount 50.000 Recovery = 112.32% 5) NDMA-d6 0.00 0 0.00 ng/ml 80 Spiked Amount 50.000 Recovery = 0.00% Target Compounds Ovalue 2) 1, 4-Dioxane 6.66 88 58585 64.17 ng/ml 92

______ (#) = qualifier out of range (m) = manual integration 0409F004.D 0408DXNDMA.M Thu Apr 10 09:01:27 2008





0409F004.D 0408DXNDMA.M

Thu Apr 10 08:53:35 2008

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	K0802796
Project:	Kuhlman Electric	Date Collected:	NA
Sample Matrix:	Water	Date Received:	NA

1,4-Dioxane by GC/MS

Sample Name: Lab Code:	Duplicate Lab Control Sample KWG0803108-2	Units: Basis:	0
Extraction Method: Analysis Method:	METHOD 8270C SIM	Level:	Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	17.6	0.50	0.260	1	04/04/08	04/09/08	KWG0803108	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	63	55-100	04/09/08	Acceptable	

Comments:

Merged

 Data File:
 J:\MS20\DATA\040908\0409F005.D

 Lab ID:
 KWG0803108-2

 RunType:
 DLCS

 Matrix:
 WATER

04/09/2008 12:46 04/10/2008 08:54 KWG0803281 8270C SIM MJ402

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
Analytical Holding Time	NA	NA	NA	X	
ICAL Pass/Fail	NA	NA	NA	X	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	X	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Minimum RF	NA	NA	NA	x	
Continuing Calibration SPCC/CCC	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Relative Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

K 07 0 2796 2220

Primary Review: 26 Secondary Review: 07 9

Printed: 04/10/2008 09:57:25 u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

	tle ID: d Code:	8270C SIM 14_	DI		Tier: Collect Date:			Matrix: Receive		WATER 04/08/20		
Ana	lysis Lot: lysis Method: p Ref:	KWG0803281 8270C SIM 699174			Prep Lot: Prep Method Prep Date:			Report	Group:			*.
Qua Title	nt Method:	J:\MS20\METH	ODS\0408D2	XNDMA.N	1			Calibra	tion ID:	CAL723	3	
Tun	e Ref: Ref:	"J:\MS20\DATA\ J:\MS20\DATA\						Method Quant	ID: based on	MJ402 Method		
Acq	a File: u Date: i Type: ID:	J:\MS20\DATA\ 04/09/2008 12:- DLCS KWG0803108-2	46		Quant Date:	04/10	/2008 08:54	Instrum Vial: Dilution Soln Co		MS20 25 1.0 ng/ml		
	rnal Standar	rd Compounds	· · · · · · · · · · · · · · · · · · ·									· · · · · · · · · · · · · · · · · · ·
:S Ref	Parameter Na	me	RT	RT Dev		Quant Mass	Response	Solution Conc			Area Criteria	
Surr	1,4-Dichlorob		8.42	0.02?		152	88375 m	50.00	<u> </u>		OK	
IS Ref	Parameter Na		RT	RT Dev	RRT Dev	Quant Mass	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
	1,4-Dioxane-o	18	6.68	0.01	0.00	96	45959	62.57	63	55-100	OK	
Targ	et Compour	nds					Final C	Conc. Units:	ug/L			
IS Ref	Parameter Na	me	RT	RT Dev	RRT Dev	QuantM ass	Response	Solution Conc	Fin Co		Q	Rpt?
1	1,4-Dioxane		6.69		0.00	88	63355	70.44	17	.6		
Prer) Amount:	100 ml		Dilution:		1.0						

((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor Final Concentration =

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/10/2008 09:54:50 u:\Stealth\Crystal.rpt\quant1.rpt

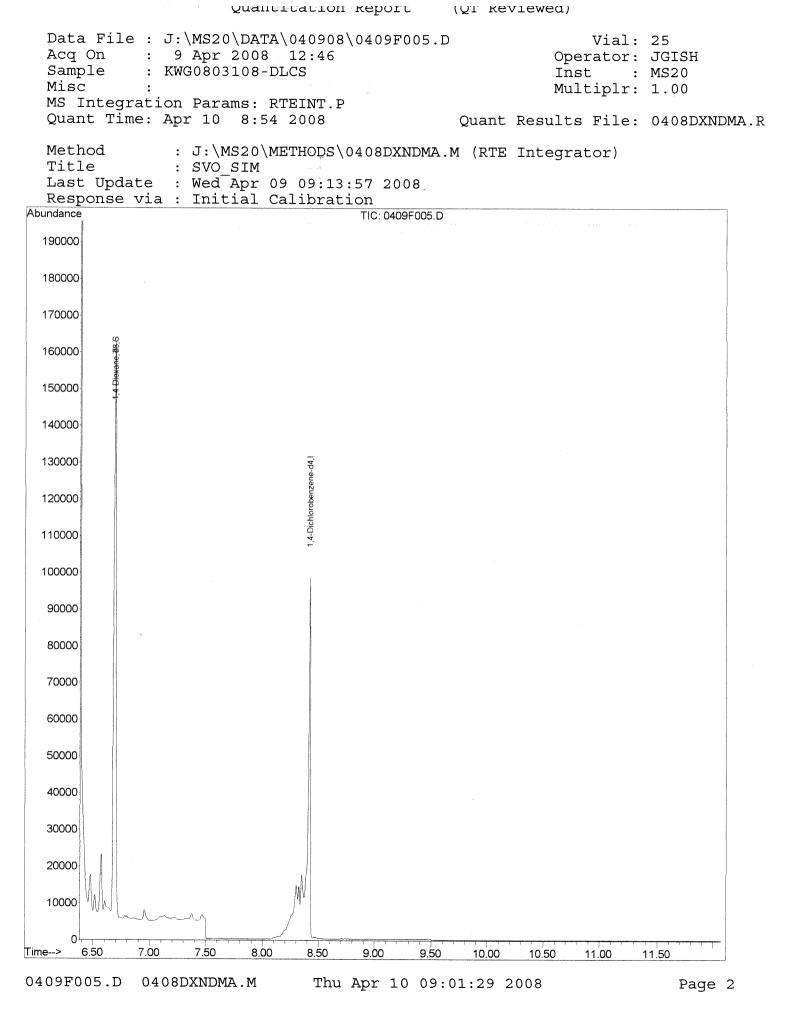
D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

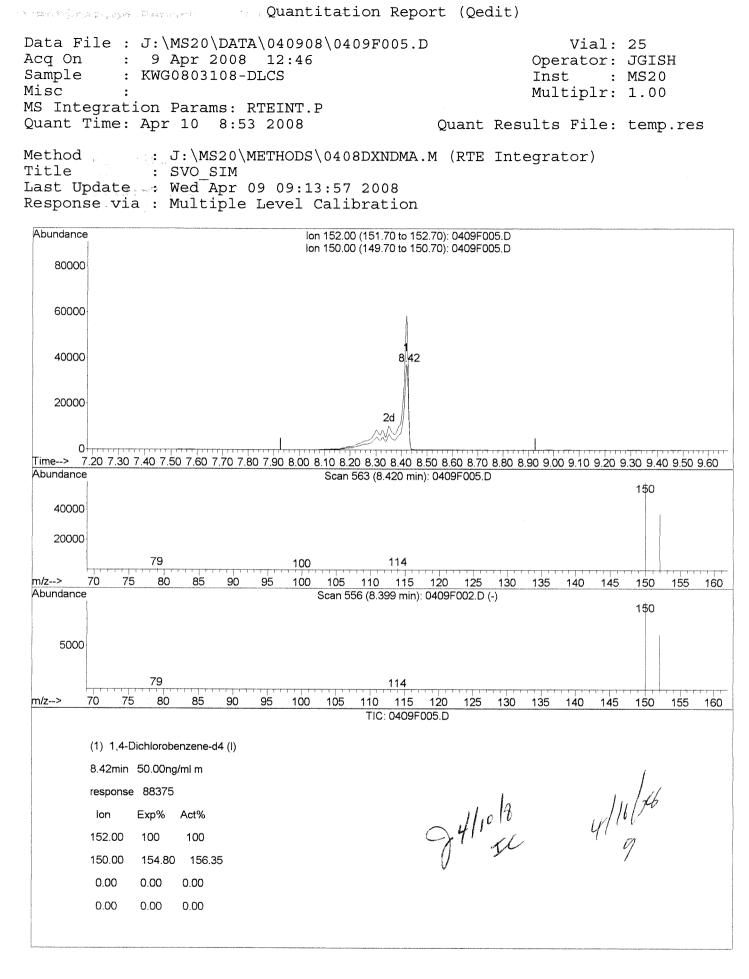
J:\MS20\DATA\040908\0409F005.D

*: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

*: Result fails acceptance criteria

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F005.D Vial: 25 Acq On : 9 Apr 2008 12:46 Sample : KWG0803108-DLCS Misc : Operator: JGISH Inst : MS20 Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 10 08:53:00 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Initial Calibration DataAcg Meth : DIOXNDMA R.T. QIon Response Conc Units Dev(Min) Internal Standards 1) 1,4-Dichlorobenzene-d4 8.42 152 88375m 50.00 ng/ml 0.00 System Monitoring Compounds 3) 1,4-Dioxane-d8 6.68 96 45959 62.57 ng/ml 0.00 Spiked Amount 50.000 Recovery = 125.14% 0.00 80 5) NDMA-d6 0 0.00 ng/ml Spiked Amount 50.000 Recovery = 0.00%Target Compounds Ovalue 6.69 88 63355 70.44 ng/ml 98 2) 1,4-Dioxane





0409F005.D 0408DXNDMA.M

Thu Apr 10 08:54:00 2008

Organic Analysis: <u>1,4-Dioxane by GC/MS</u> Validation Package

Standards Data

QA/QC Results

Client: Environmental Chemistry Consulting Servi **Project:** Kuhlman Electric

Service Request: K0802796 **Date Analyzed:** 04/09/2008 Time Analyzed: 11:24

Tune Summary 1,4-Dioxane by GC/MS

File ID:	J:\MS20\DATA\040908\0409F001.D
Instrument ID:	MS20
Column:	

Analysis Method:	8270C SIM
Analysis Lot:	KWG0803281

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	24.9	242646	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	31.5	307150	PASS
70	69	0	2	0.5	1565	PASS
127	198	10	80	42.8	416981	PASS
197	198	0	2	0.0	0	PASS
198	442	30	100	48.6	974741	PASS
199	198	5	9	6.9	67365	PASS
275	198	10	60	31.5	307242	PASS
365	442	1	50	2.1	42482	PASS
441	443	0	100	87.1	363242	PASS
442	442	100	100	100.0	2003626	PASS
443	442	15	24	20.8	417173	PASS

			Date	Time	
Sample Name	Lab Code	File ID	Analyzed	Analyzed	Q
Continuing Calibration Verification	KWG0803281-2	J:\MS20\DATA\040908\0409F002.D	04/09/2008	11:48	
Method Blank	KWG0803108-3	J:\MS20\DATA\040908\0409F003.D	04/09/2008	12:08	
Lab Control Sample	KWG0803108-1	J:\MS20\DATA\040908\0409F004.D	04/09/2008	12:27	
Duplicate Lab Control Sample	KWG0803108-2	J:\MS20\DATA\040908\0409F005.D	04/09/2008	12:46	
KEP-GW-020A-003	K0802796-001	J:\MS20\DATA\040908\0409F006.D	04/09/2008	13:05	
KEP-GW-020B-003	K0802796-002	J:\MS20\DATA\040908\0409F007.D	04/09/2008	13:26	
Duplcate 2	K0802796-003	J:\MS20\DATA\040908\0409F008.D	04/09/2008	13:46	

Results flagged with an asterisk (*) indicate the analysis performed outside specified tune window

 Data File:
 J:\MS20\DATA\040908\0409F001.D

 Lab ID:
 KWG0803281-1

 RunType:
 DFTPP

 Matrix:
 WATER

04/09/2008 11:24

Date Acquired: Date Quantitated: Batch ID: Analysis Method: ListJoinID:

KWG0803281 8270C SIM LJ2865

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Ion Ratio	NA	NA	NA	x	

Primary Review: 10 e Secondary Review: 074

Printed: 04/10/2008 09:57:13 u:\Stealth\Crystal.rpt\except2.rpt

Quantitation Report

Bottle ID: Prod Code:	8270C SIM 14_DI	Tier: Collect Date:	Matrix:WATERReceive Date:04/10/2008
Analysis Lot: Analysis Method: Prep Ref:	KWG0803281 DFTPP	Prep Lot: Prep Method: Prep Date:	Report Group:
Quant Method: Title: Tune Ref: MB Ref:	J:\MS20\METHODS\0408D		Calibration ID:CAL7233Report List ID:LJ1965Method ID:MJ190Quant based on Report List
Data File: Acqu Date: Run Type: Lab ID:	J:\MS20\DATA\040908\0409 04/09/2008 11:24 DFTPP KWG0803281-1	9F001.D Quant Date:	Instrument:MS20Vial:1Dilution:1.0Soln Conc. Units:

Tune Results

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	24.9	242646	Pass
68	69	0	2	0.0	0	Pass
69	198	0	100	31.5	307150	Pass
70	69	0	2	0.5	1565	Pass
127	198	10	80	42.8	416981	Pass
197	198	0	2	0.0	0	Pass
198	442	30	100	48.6	974741	Pass
199	198	5	9	6.9	67365	Pass
275	198	10	60	31.5	307242	Pass
365	442	1	50	2.1	42482	Pass
441	443	0.01	100	87.1	363242	Pass
442	442	100	100	100.0	2003626	Pass
443	442	15	24	20.8	417173	Pass

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

Printed: 04/10/2008 09:54:12 u:\Stealth\Crystal.rpt\quant1.rpt

D: Result from dilution m: Manual integration performed d: Compound manually deleted NR: Analyte not reported from this analysis

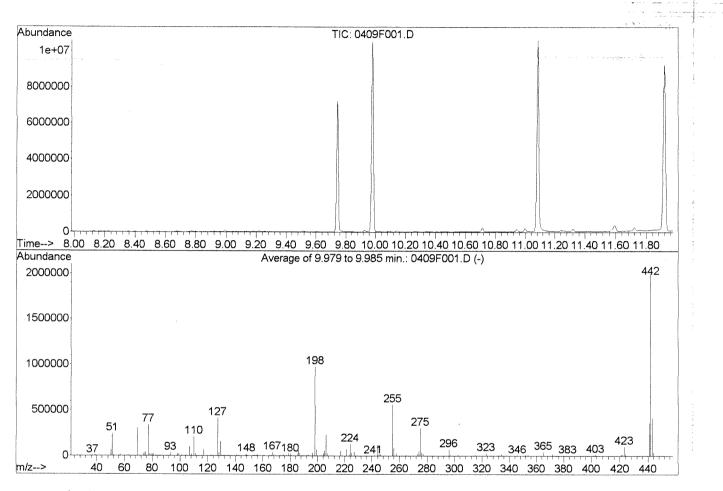
*: Result fails acceptance criteria

Result fails acceptance criteria
 #: Acceptance criteria not applicable
 ?: Insufficient information to determine acceptance
 e: Result >= MRL, but MRL less than low point of ICAL
 c: check for co-elution

J:\MS20\DATA\040908\0409F001.D

DFTPP

Data File	e : J:\MS20\DATA\040908\0409F001.D	Vial:	1
Acq On	: 9 Apr 2008 11:24	Operator:	JGISH
Sample	: DFTPP @ 2.5 ppm SVM25-88H	Inst :	MS20
Misc	:	Multiplr:	1.00
MS Integi	ration Params: RTEINT.P	*	v* 11 219
Method	: J:\MS20\METHODS\0408DXNDMA.M (RTE Integra	ator)	40.4 ° 0.4
	: SVO SIM	1	a a gancar



AutoFind: Scans 1255, 1256, 1257; Background Corrected with Scan 1247

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail	
51 68 69 70 127 197 198 199 275 365	198 69 198 69 198 198 442 198 198 198 442	10 0.00 0.00 10 0.00 30 5 10 1	80 2 100 2 80 2 100 9 60 50	$ \begin{array}{c} 24.9\\ 0.0\\ 31.5\\ 0.5\\ 42.8\\ 0.0\\ 48.6\\ 6.9\\ 31.5\\ 2.1\\ \end{array} $	$\begin{array}{c} 242646 \\ 0 \\ 307150 \\ 1565 \\ 416981 \\ 0 \\ 974741 \\ 67365 \\ 307242 \\ 42482 \end{array}$	PASS PASS PASS PASS PASS PASS PASS PASS	
441 442 443	443 442 442	0.01 30 15	100 100 24	87.1 100.0 20.8	363242 2003626 417173	PASS PASS PASS	

0409F001.D 0408DXNDMA.M

Wed Apr 09 11:42:41 2008

Average of 9 DFTPP @ 2.5	9.979 to : 00m SVM2	9.985 min.: 5-888	0409F00	1.D			
Modified:sub	prin buiz.	5 0011					
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	228	52.20	12626	64.20	1603	79.10	20688
36.10	148	53.10	593	65.20	5277	80.10	16233
37.10	963	55.15	1220	66.15	448	81.10	23925
38.15	2629	56.15	7675	69.10	307150	82.10	5756
39.20	16753	57.10	17503	70.10	1565	83.10	5838
40.10	464	58.10	806	71.05	180	84.05	392
41.15	492	59.05	230	73.15	2358	85.05	4008
43.10	92	60.10	107	74.15	28108	86.10	5628
45.10	717	61.15	3294	75.10	45192	87.05	2346
50.20	64626	62.20	3917	77.15	341547	88.10	418
51.15	242646	63.20	10199	78.20	23058	91.10	5442
Average of S	9.979 to 9	9.985 min.:	0409F00	1.D			
DFTPP @ 2.5 Modified:suk		5-88H					
modified:sur m/z	abund.	m/z	abund.		o hum d	/	- b
92.15	6171	104.10	abund. 8707	m/z 116.20	abund. 2061	m/z 128.10	abund.
93.10	34101	105.10	8025	117.10	71461	128.10	34205 159829
94.10	2796	107.10	103810	118.10	5280	130.10	12988
95.05	619	108.10	17786	119.00	551	131.10	2556
96.10	1618	110.10	213184	120.10	1429	132.10	1465
98.10	26161	111.10	30504	121.10	537	133.00	579
99.10	20642	112.10	3779	122.10	6884	134.10	4205
100.10	1996	113.10	1260	123.10	10666	135.05	11864
101.10	14391	113.90	136	124.10	4981	136.10	4805
102.15	955	114.10	171	125.10	4806	137.10	5442
103.10	4341	115.05	480	127.10	416981	138.05	1076
Average of 9	9.979 to 9	9.985 min.:	0409F00:	1.D			
DFTPP @ 2.5 Modified:sub	ppm SVM25 stracted	5-88H					
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.05	739	150.00	706	161.10	8776	172.05	3616
140.20	582	151.10	1885	162.05	3007	173.05	4735
141.10	18717	152.00	78	163.00	875	174.10	8806
142.10	6492	153.10	5883	164.15	1470	175.10	15193
143.05	4502	154.10	4646	165.00	6910	176.10	3886
144.10	1156	155.10	11076	166.10	6538	177.05	6060
145.05	1219	156.10	17161	167.05	39355	179.00	28112
146.10	3414	157.10	3875	168.10	15440	180.10	20378
147.10	9805	158.05	3897	169.10	3273	181.10	10218
148.10	19538	159.10	3017	170.05	1394	182.05	1761
149.10 Average of 9	4016	160.10	6268	171.00	1742	183.05	1307
DFTPP @ 2.5			0409F001	L.D			
Modified:sub		0-00n					
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
184.10	2878	196.10	35237	209.00	2527	225.10	33410
185.10	17031	198.00	974741	211.05	9311	227.00	45962
186.10	118093	199.00	67365	213.05	783	228.05	6687
187.10	32373	200.05	4851	214.00	109	229.00	10765
188.10	3790	201.50	6512	215.00	2234	230.05	1665
189.00	7040	203.10	6198	217.00	58720	231.05	5192
190.05	1189	204.10	31090	218.00	7190	232.05	957
191.05	3568	205.10	56914	219.15	923	233.05	1099
192.10	10067	206.10	230378	221.10	73264	234.00	3357
193.05 194.05	11081	207.10	29624	223.10	16583	235.00	3650
194.00	2332	208.05	6667	224.10	132461	236.00	2467

Average of 9.979 to 9.985 min.: 0409F001.D DFTPP @ 2.5 ppm SVM25-88H Modified:subtracted

Modified:su							
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
237.05	4261	249.00	4377	261.00	1132	273.05	21530
238.05	821	249.95	880	261.90	101	274.05	54610
239.00	2092	251.00	1169	263.10	142	275.00	307242
240.00	1688	252.10	1207	263.90	953	276.00	40960
241.05	3178	253.10	3042	265.00	11814	270.00	20648
242.05	7152	255.00					
			561536	265.95	1880	278.00	3371
244.10	122941		83946	266.95	559	279.00	973
245.10	17034	257.05		267.80	179	281.00	658
246.00	17452	258.00	28941	269.20	112	282.00	1030
247.00	3803	259.00		270.00	1036	283.00	2442
248.05	1215	259.95	826	271.00	1170	284.05	1590
Average of	9.979 to 9	9.985 min.	: 0409F00	1.D			
DFTPP @ 2.5	ppm SVM25	5-88H					
Modified:su	btracted						
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.05	4208	298.00	679	314.05	4149	328.00	3069
286.00	735	301.00	1086	315.00	8460	328.95	731
287.95	443	302.05	1623	315.00			
289.00	1107	303.00			5125	332.00	2340
			9343	317.00	997	333.05	3620
290.00	884	304.00	2503	319.95	251	334.00	19130
290.95	518	304.95	341	321.00	3436	335.05	4879
292.05	1380	308.05	1349	323.05	30008	335.95	626
293.00	5761	309.00	729	324.00	5627	338.95	566
294.00	1243	310.00	1002	325.00	561	339.95	437
296.00	71042	311.90	285	326.05	563	341.00	4067
297.00	9863	313.05	1098	327.00	5214	342.05	1082
Average of	9.979 to 9						
DFTPP @ 2.5			• • • • • • • • • • • • • • • • • • • •				
Modified:su	htracted	0011					
m/z	abund.	m/z	abund.	m/z	abund.		aburd
346.00	6378	359.90				m/z	abund.
346.95			132	383.95	1788	404.00	4939
	1250	365.00	42482	385.00	605	404.95	673
349.95	367	366.00	5658	390.00	3279	409.95	583
351.00	267	366.95	475	391.00	2042	414.95	734
352.00	10163	369.95	1166	391.95	1538	421.00	14084
353.00	7581	371.00	3336	392.90	424	422.10	13468
354.00	10402	372.00	19426	394.90	107	423.00	102360
355.00	2336	373.00	5209	396.90	240	424.00	20949
356.00	120	373.95	523	401.00	1543	424.95	1992
357.00	109	376.90	673		8836	435.80	133
358.95	970	383.00		403.00	13993	436.10	162
Average of					10000	400.10	1 (Z
DFTPP @ 2.5			. 0405100.	1.1)			
Modified:sul		0-00N					
		/	- 17			,	, ,
m/z	abund.	m/z		m/z	abund.	m/z	abund.
436.30	119	445.00	2017				
437.60	275						
437.90	427						
438.30	233						
438.60	267						
439.00	723						
439.30	343						
441.10 /	363242						
442.00 /	2003626						
443.00	417173						
444.00	39565						
	55505						

QA/QC Results

Client:	Environmental Chemistry Consulting Servi
Project:	Kuhlman Electric

Service Request: K0802796 Calibration Date: 04/08/2008

Initial Calibration Summary 1,4-Dioxane by GC/MS

Calibrati Instrume			Column: MS
Level ID	File ID	Level ID	File ID
Á	J:\MS20\DATA\040808\0408F003.D	Е	J:\MS20\DATA\040808\0408F007.D
В	J:\MS20\DATA\040808\0408F004.D	F	J:\MS20\DATA\040808\0408F008.D
C	J:\MS20\DATA\040808\0408F005.D	G	J:\MS20\DATA\040808\0408F009.D
D	J:\MS20\DATA\040808\0408F006.D		

	Level			Level			Level			Level			Level		
Analyte Name	ID	Amt	RRF	D	Amt	RRF									
1,4-Dioxane	Α	2.0	0.544	В	5.0	0.532	С	10	0.517	D	50	0.484	E	100	0.480
	F	250	0.503	G	500	0.502									
1,4-Dioxane-d8	Α	2.0	0.420	В	5.0	0.439	C	10	0.431	D	50	0.401	Е	100	0.393
	F	250	0.413	G	500	0.412									

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

QA/QC Results

Client:Environmental Chemistry Consulting ServiProject:Kuhlman Electric

Service Request: K0802796 Calibration Date: 04/08/2008

Initial Calibration Summary 1,4-Dioxane by GC/MS

Calibration ID: Instrument ID:	CAL7233 MS20							Colum	
				Calibratio	on Evaluat	ion		RRF	Evaluation
Analyte Name		Compound Type	Fit Type	Eval.	Eval. Result	Q	Control Criteria	Average RRF	Minimum Q RRF
1,4-Dioxane 1,4-Dioxane-d8	<u></u>	MS SURR	AverageRF AverageRF	% RSD % RSD	4.6 3.9		≤ 15 ≤ 15	0.509 0.416	0.01 0.01

Results flagged with an asterisk (*) indicate values outside control criteria. † SPCC Compound

‡ CCC Compound

QA/QC I	Results
---------	---------

	MS20\DATA\040808\6 Expected	0408F010.D Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
•	MS20\DATA\040808\(0408F010.D)					
Analysis Method: 82								
Calibration Type: In	ternal Standard 270C SIM		17 J			Calibra	ation ID: Units:	CAL7233 ng/ml
			rce Calibratio -Dioxane by G		1			
	uhlman Electric		Calibrati	on Date:	04/08/2008 04/08/2008			
Client: Er	nvironmental Chemistr	v Consultin		Service	Request:	K0802796		

Results flagged with an asterisk (*) indicate values outside control criteria.

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	0408F001.D 0408F002.D 0408F003.D 0408F004.D 0408F005.D 0408F006.D 0408F007.D 0408F008.D 0408F009.D	1. 1. 1. 1. 1. 1. 1. 1.	DFTPP @ 2.5 ppm SVM2 IB DXNDMA @ 2 PPB SVM DXNDMA @ 5 PPB SVM DXNDMA @ 10 PPB SVM DXNDMA @ 100 PPB SV DXNDMA @ 250 PPB SV DXNDMA @ 500 PPB SV	25-26C MJ895 25-26D 125-26E 125-26F M25-26G CAL7233 M25-26H	8 Apr 2008 17:20 8 Apr 2008 17:46 8 Apr 2008 18:05 8 Apr 2008 18:23 8 Apr 2008 18:41 8 Apr 2008 19:01 8 Apr 2008 19:19 8 Apr 2008 19:39 8 Apr 2008 19:58
10 11 12 13 14 15 16 17 18 19	10 11 12 13 14 15 16 17 18 19	0408F010.D 0408F011.D 0408F012.D 0408F013.D 0408F014.D 0408F015.D 0408F015.D 0408F016.D 0408F017.D 0408F018.D 0408F019.D	1. 1. 1. 1. 1. 1. 1. 1. 1.	DXNDMA ICV @ 50 PPB KWG0803055-MB KWG0803055-LCS KWG0803055-DLCS P0800807-001MS P0800807-001MSD P0800807-001 KWG0802930-MB KWG0802930-LCS KWG0802930-DLCS	SVM25-74K	8 Apr 2008 20:17 8 Apr 2008 20:35 8 Apr 2008 20:55 8 Apr 2008 21:14 8 Apr 2008 21:34 8 Apr 2008 21:53 8 Apr 2008 22:12 8 Apr 2008 22:31 8 Apr 2008 22:49 8 Apr 2008 23:08
20 21 2 2 2 3 2 4 25	23	0408F020.D 0408F021.D 0408F022.D 0408F023.D 0408F024.D 0408F025.D	1. 1. 1. 1. 1. 1.	K0802637-001 K0802637-002 K0802637-003	R	8 Apr 2008 23:08 8 Apr 2008 23:28 9 Apr 2008 23:46 9 Apr 2008 00:05 9 Apr 2008 00:24 9 Apr 2008 00:43

J41918 Run 111593 Quiais

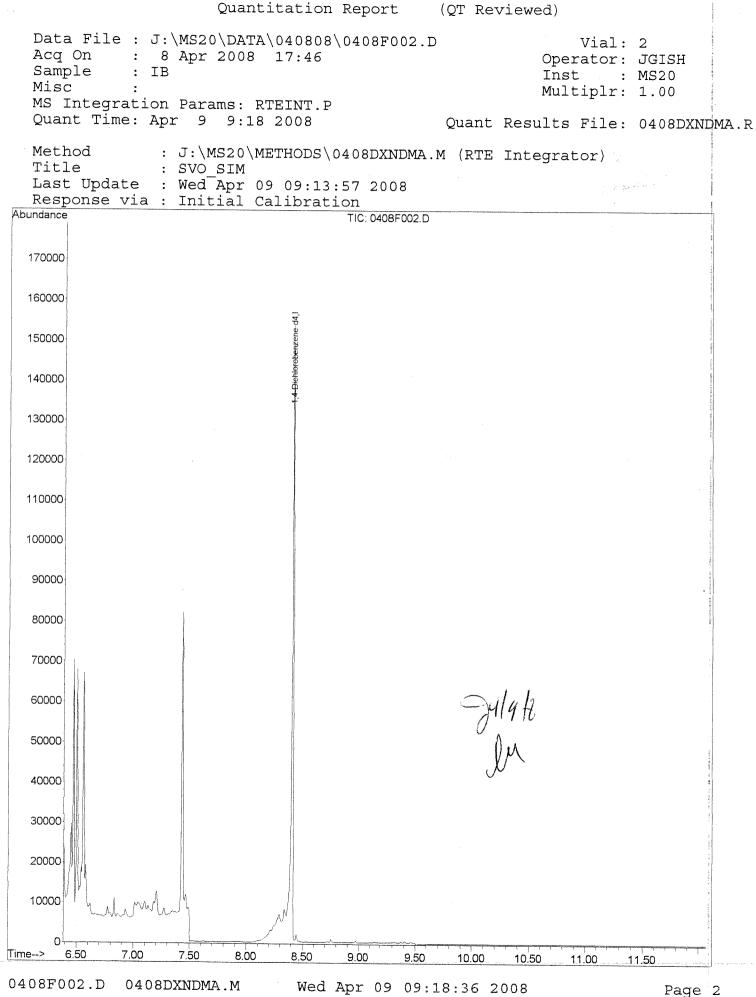
(QT Reviewed) Quantitation Report Data File : J:\MS20\DATA\040808\0408F002.D Vial: 2 Acq On : 8 Apr 2008 17:46 Sample : IB Operator: JGISH Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 09 09:18:01 2008 Quant Results File: 0408DXNDMA RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO_SIM Last Update : Wed Apr 09 09:13:57 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QION Response Conc Units Dev(Min) 1) 1,4-Dichlorobenzene-d4 8.40 152 75724m 50.00 ng/ml -0.02 System Monitoring Compounds 3) 1,4-Dioxane-d8 0.00 96 0 0.00 ng/ml Spiked Amount 50.000 Recovery = 0.00% 5) NDMA-d6 0.00 80 0 0.00 ng/ml Spiked Amount 50.000 Recovery = 0.00%

Target Compounds

Qvalue

J41978

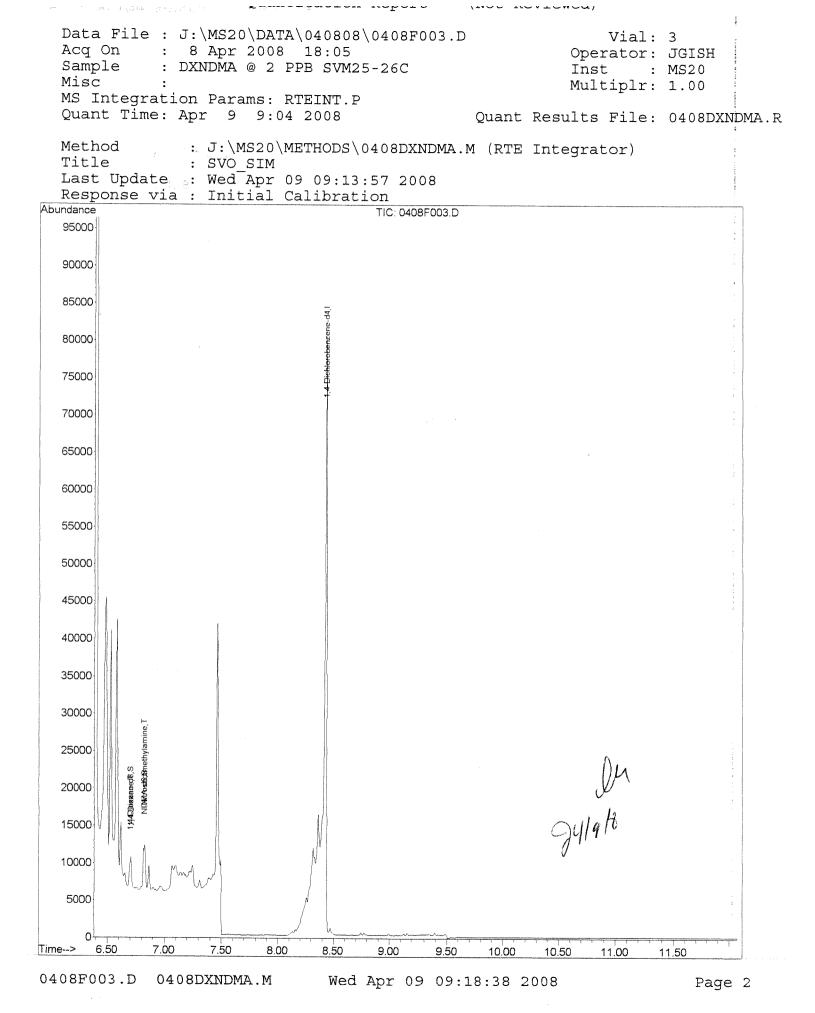
(#) = qualifier out of range (m) = manual integration 0408F002.D 0408DXNDMA.M Wed Apr 09 09:18:36 2008

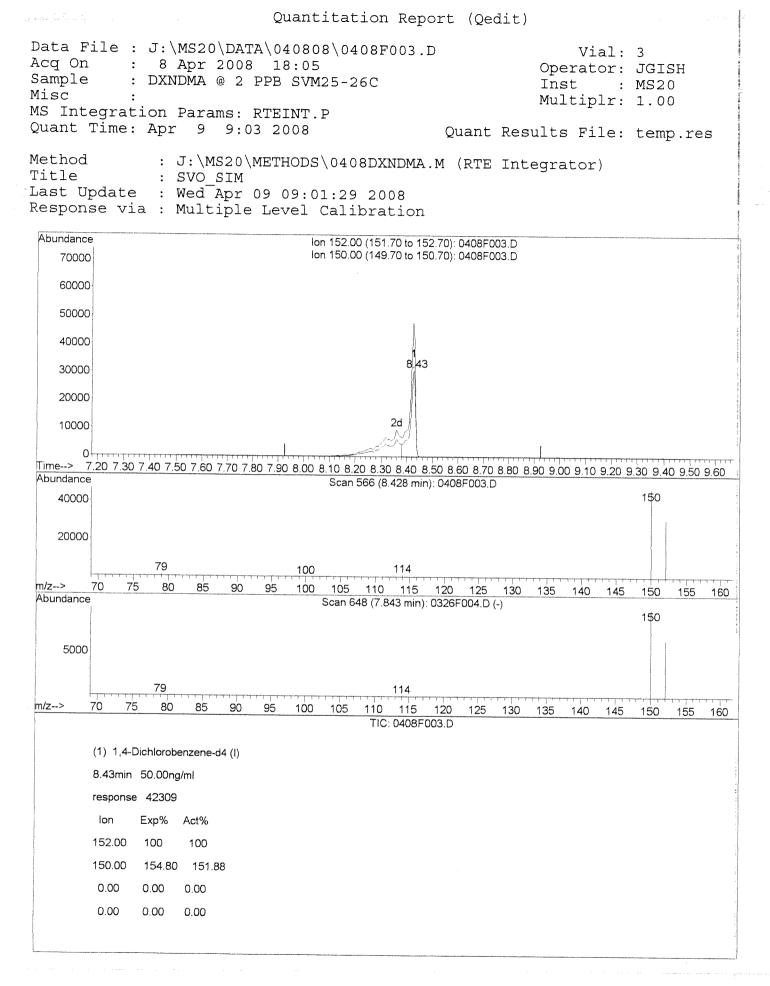


And the test of te	repor	L	(NOL KEVIEWE	a)		
Data File : J:\MS20\DATA\040808\04 Acq On : 8 Apr 2008 18:05 Sample : DXNDMA @ 2 PPB SVM25-2 Misc : MS Integration Params: RTEINT.P Quant Time: Apr 09 09:03:30 2008			Oper Inst	: iplr:	JGISH MS20 1.00	DMA.RES
Quant Method : J:\MS20\METHODS\040 Title : SVO_SIM Last Update : Wed Apr 09 09:01:29 Response via : Initial Calibration DataAcq Meth : DIOXNDMA	2008		. –	or)		
Internal Standards	R.T.	QIon	Response C	onc Ur	nits Dev	(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	74207m	50.00	ng/ml	0.00
System Monitoring Compounds 3) 1,4-Dioxane-d8 Spiked Amount 50.000 5) NDMA-d6 Spiked Amount 50.000	6.69 6.82	96 80	Recovery	= 2.01	ng/ml	
Target Compounds 2) 1,4-Dioxane 4) N-Nitrosodimethylamine	6.71 6.83	88 74	1615 2094		Qva ng/ml# ng/ml#	

gy/ato

(#) = qualifier out of range (m) = manual integration 0408F003.D 0408DXNDMA.M Wed Apr 09 09:18:37 2008 Wed Apr 09 09:18:37 2008





0408F003.D 0408DXNDMA.M

Wed Apr 09 09:04:05 2008

----- ACPULL (genere) Data File : J:\MS20\DATA\040808\0408F003.D Vial: 3 Acq On : 8 Apr 2008 18:05 Operator: JGISH Sample : DXNDMA @ 2 PPB SVM25-26C : MS20 Inst Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 9 9:04 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Multiple Level Calibration Abundance Ion 152.00 (151.70 to 152.70): 0408F003.D Ion 150.00 (149.70 to 150.70): 0408F003.D 70000 60000 50000 40000 843 30000 20000 2d 10000 0 Time--> 7.20 7.30 7.40 7.50 7.60 7.70 7.80 7.90 8.00 8.10 8.20 8.30 8.40 8.50 8.60 8.70 8.80 8.90 9.00 9.10 9.20 9.30 9.40 9.50 9.60 Abundance Scan 566 (8.428 min): 0408F003.D 40000 150 20000 79 100 114 m/z--> 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 Abundance Scan 648 (7.843 min): 0326F004.D (-) 150 5000 79 114 m/z--> 70 75 80 85 90 95 100 105 115 110 120 125 130 135 140 145 150 155 160 TIC: 0408F003.D (1) 1,4-Dichlorobenzene-d4 (I) 8.43min 50.00ng/ml m response 74207 lon Exp% Act% J HAA 152.00 100 100 150.00 154.80 151.88 0.00 0.00 0.00 0.00 0.00 0.00 0408F003.D 0408DXNDMA.M

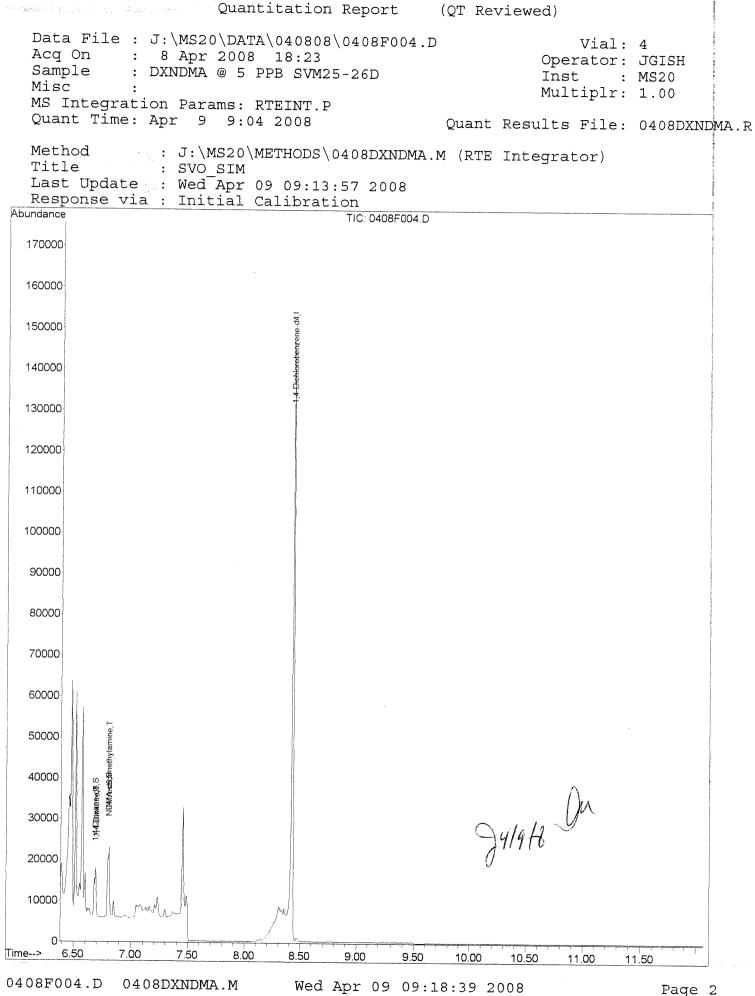
Wed Apr 09 09:04:14 2008

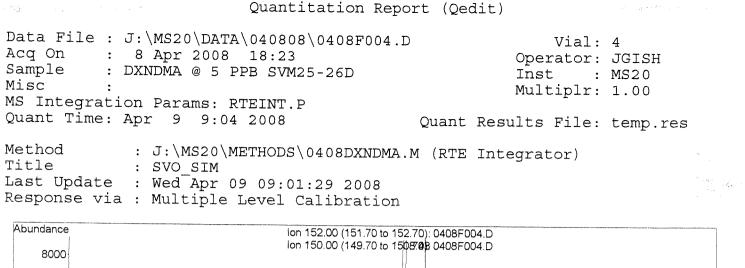
Zaanereaeron	r rebo	L L	VYI KEVIEWE	eu)		
Data File : J:\MS20\DATA\040808\04 Acq On : 8 Apr 2008 18:23 Sample : DXNDMA @ 5 PPB SVM25-2 Misc : MS Integration Params: RTEINT.P Quant Time: Apr 09 09:03:30 2008			Ins	Vial: erator: st : tiplr: s File:	JGISH MS20 1.00	IDMA RES
Quant Method : J:\MS20\METHODS\040 Title : SVO_SIM Last Update : Wed Apr 09 09:01:29 Response via : Initial Calibration DataAcq Meth : DIOXNDMA	2008	MA.M (RTE Integra	ator)		
Internal Standards	R.T.	QIon	Response	Conc U	nits Dev	(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	77583m	50.00	ng/ml	0.00
System Monitoring Compounds 3) 1,4-Dioxane-d8 Spiked Amount 50.000 5) NDMA-d6 Spiked Amount 50.000	6.68 6.80		3408 Recover 5460 Recover	Y = 5.17	ng/ml 12.30% ng/ml 10.34%	-0.01
Target Compounds 2) 1,4-Dioxane 4) N-Nitrosodimethylamine		88 74	4126 5631		Qv ng/ml ng/ml#	

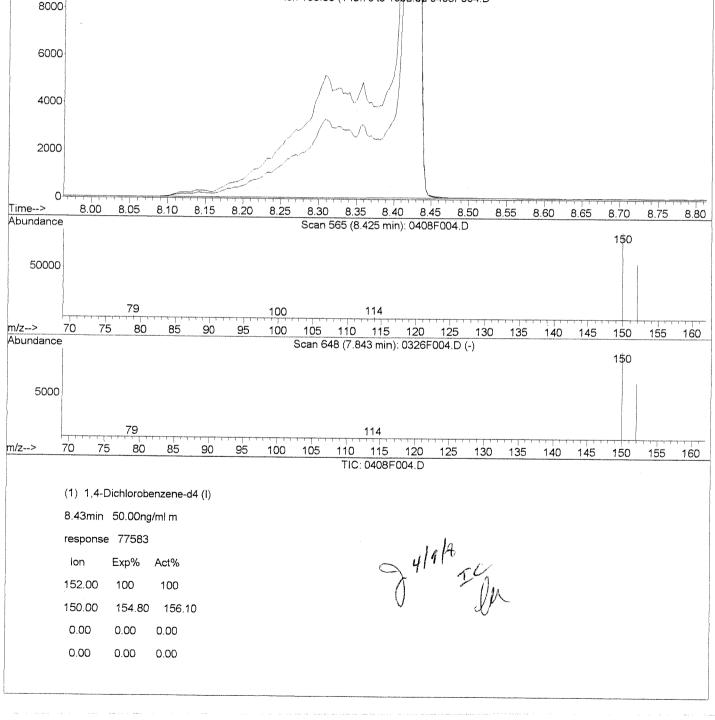
J41946 Au

(#) = qualifier out of range (m) = manual integration 0408F004.D 0408DXNDMA.M Wed Apr 09 09:18:38 2008

Page 1





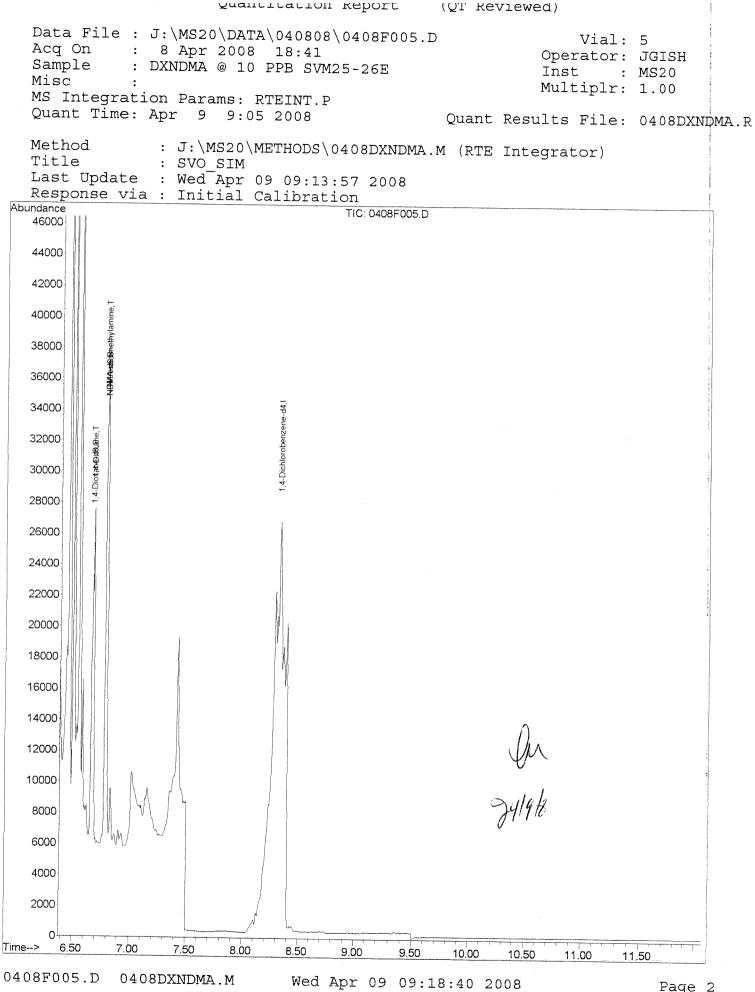


0408F004.D 0408DXNDMA.M

Wed Apr 09 09:04:45 2008

Quantitation	Repor	t (QI	'Reviewe	d)		£
Data File : J:\MS20\DATA\040808\04 Acq On : 8 Apr 2008 18:41 Sample : DXNDMA @ 10 PPB SVM25- Misc : MS Integration Params: RTEINT.P Quant Time: Apr 09 09:03:31 2008			Ins Mul	t : tiplr:	JGISH MS20	1A.RES
Quant Method : J:\MS20\METHODS\040 Title : SVO_SIM Last Update : Wed Apr 09 09:01:29 Response via : Initial Calibration DataAcq Meth : DIOXNDMA	2008	A.M (RTE	Integra			
Internal Standards	R.T.	QIon Re	sponse	Conc U	nits Dev(M	1in)
1) 1,4-Dichlorobenzene-d4	8.32	152	75000m	50.00	ng/ml -(0.11
System Monitoring Compounds 3) 1,4-Dioxane-d8 Spiked Amount 50.000 5) NDMA-d6 Spiked Amount 50.000	6.66 6.78		Recovery 10553	Y = 10.35	ng/ml -(24.14% ng/ml -(20.70%	
Target Compounds 2) 1,4-Dioxane 4) N-Nitrosodimethylamine	6.68 6.79		7750m 10754		Qval ng/ml ng/ml#	

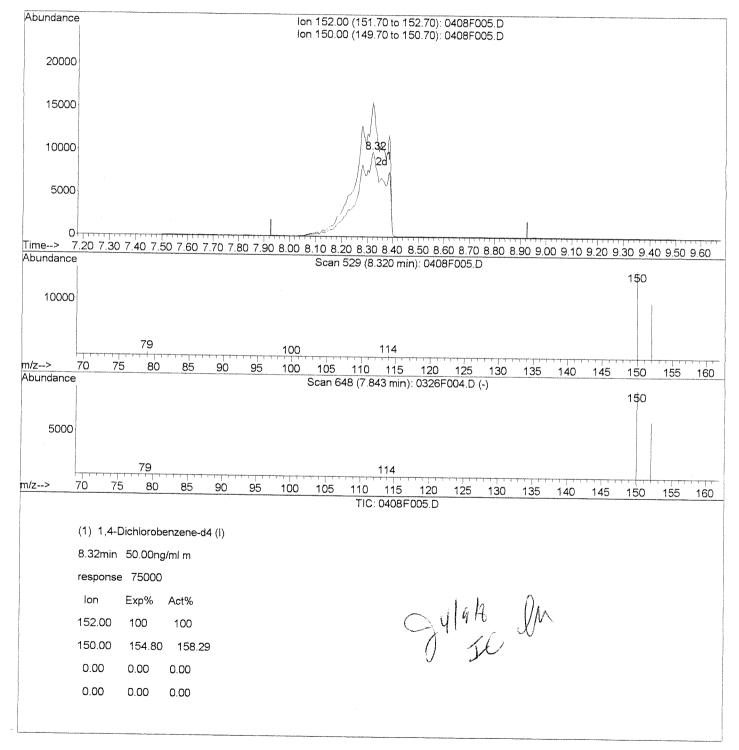
J419/6 Ju



350

Page 2

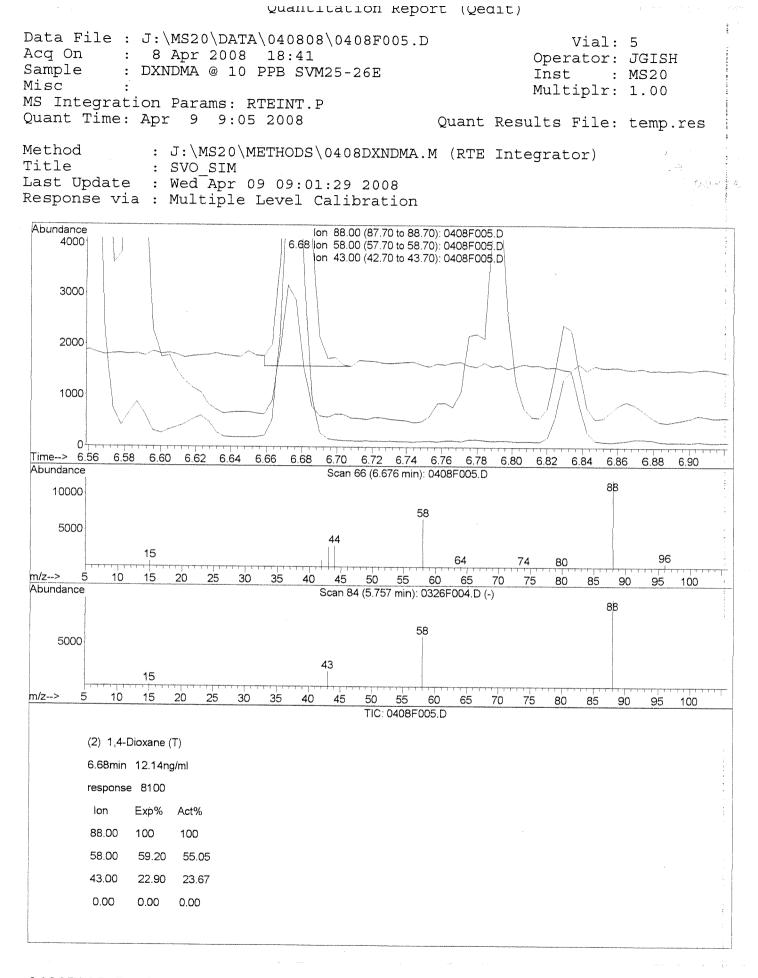
Quantitation Report (Qedit) Data File : J:\MS20\DATA\040808\0408F005.D Vial: 5 Acq On 8 Apr 2008 18:41 : Operator: JGISH Sample : DXNDMA @ 10 PPB SVM25-26E Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 9 9:05 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Multiple Level Calibration



0408F005.D 0408DXNI

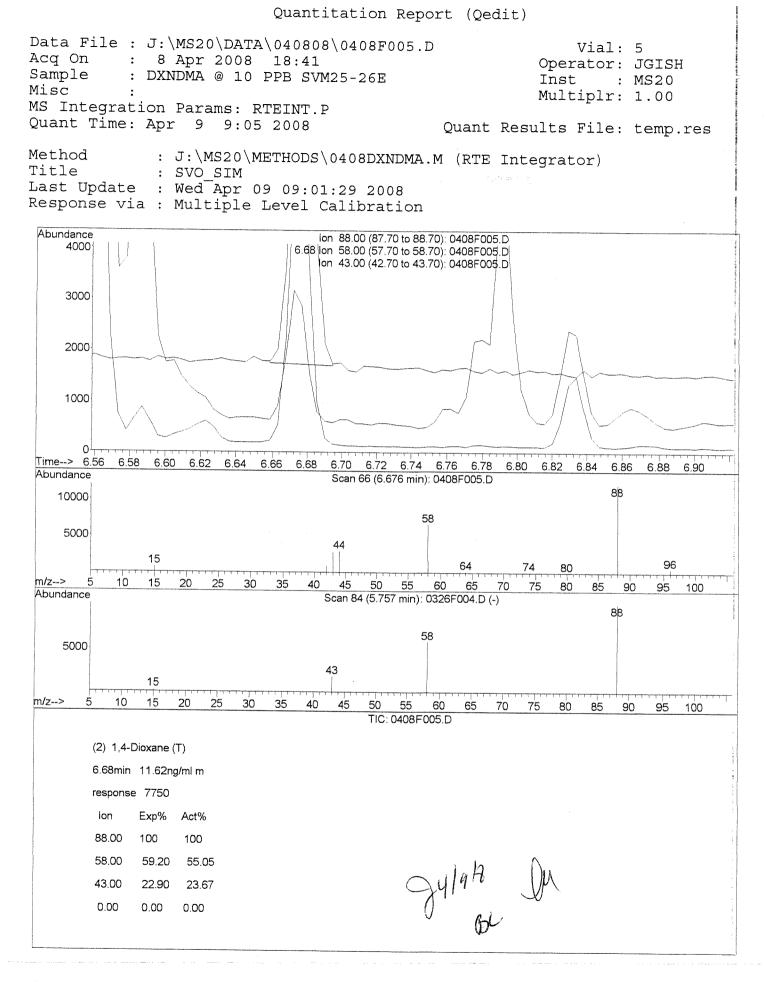
0408DXNDMA.M

Wed Apr 09 09:05:08 2008



0408F005.D 0408DXNDMA.M

Wed Apr 09 09:05:31 2008



0408F005.D 0408DXNDMA.M

Wed Apr 09 09:05:40 2008

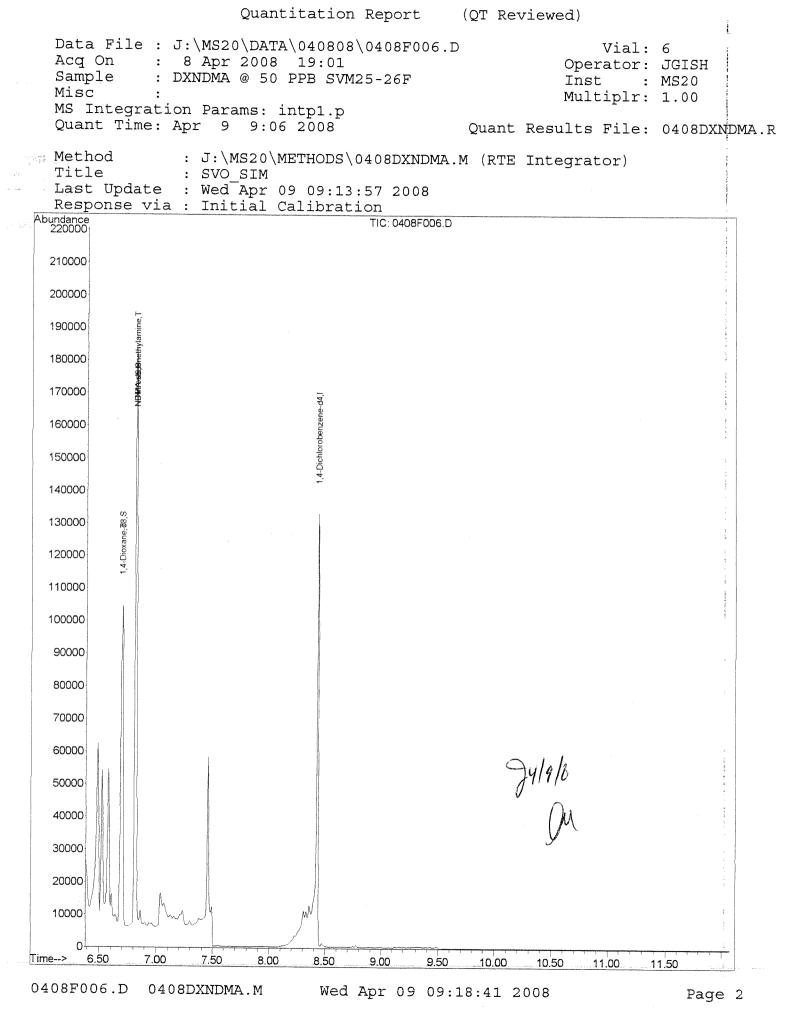
Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040808\0408F006.D Vial: 6 Acq On : 8 Apr 2008 19:01 Sample : DXNDMA @ 50 PPB SVM25-26F Operator: JGISH Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: intpl.p Quant Time: Apr 09 09:01:54 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO_SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QIon Response Conc Units Dev(Min) 1) 1,4-Dichlorobenzene-d4 8.43 152 85840m 50.00 ng/ml 0.00 System Monitoring Compounds 6.69 96 34406 56.14 ng/ml 0.00 Recovery - 112 200 3) 1,4-Dioxane-d8 6.81 80 61183 52.41 ng/ml 0.00 Recovery = 112.28% Spiked Amount 50.000 5) NDMA-d6 Spiked Amount 50.000 Recovery = 104.82% Target Compounds Qvalue

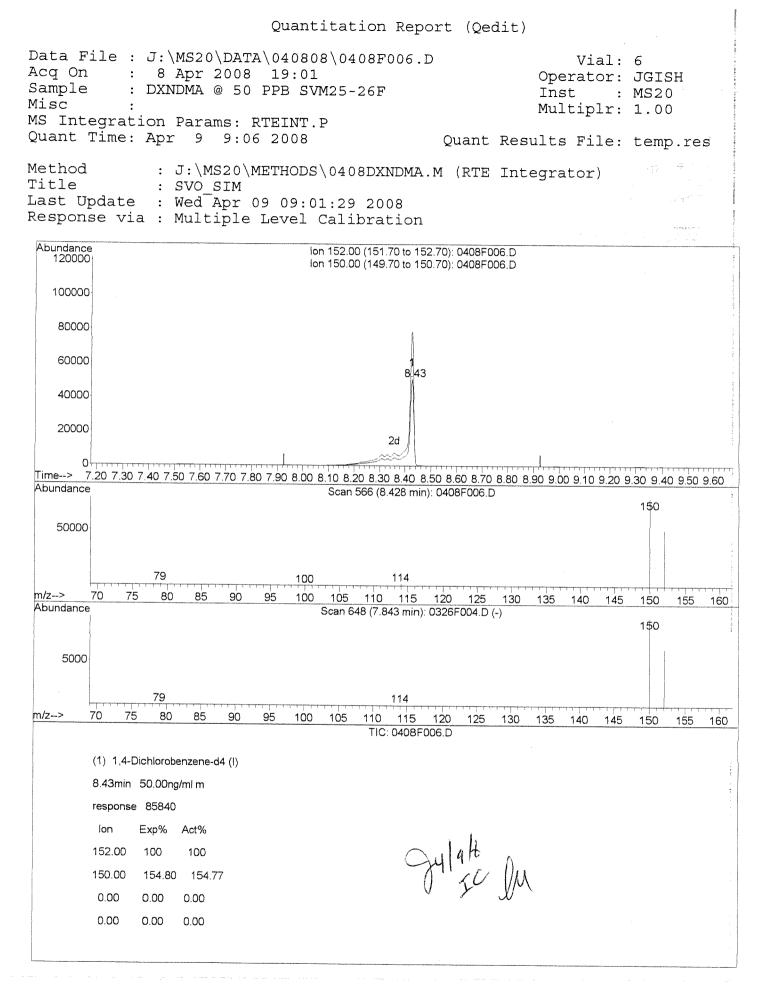
 2) 1,4-Dioxane
 6.70
 88
 41539
 54.40 ng/ml
 100

 4) N-Nitrosodimethylamine
 6.82
 74
 62179
 52.09 ng/ml
 100

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(#) = qualifier out of range (m) = manual integration 0408F006.D 0408DXNDMA.M Wed Apr 09 09:18:41 2008





0408F006.D 0408DXNDMA.M

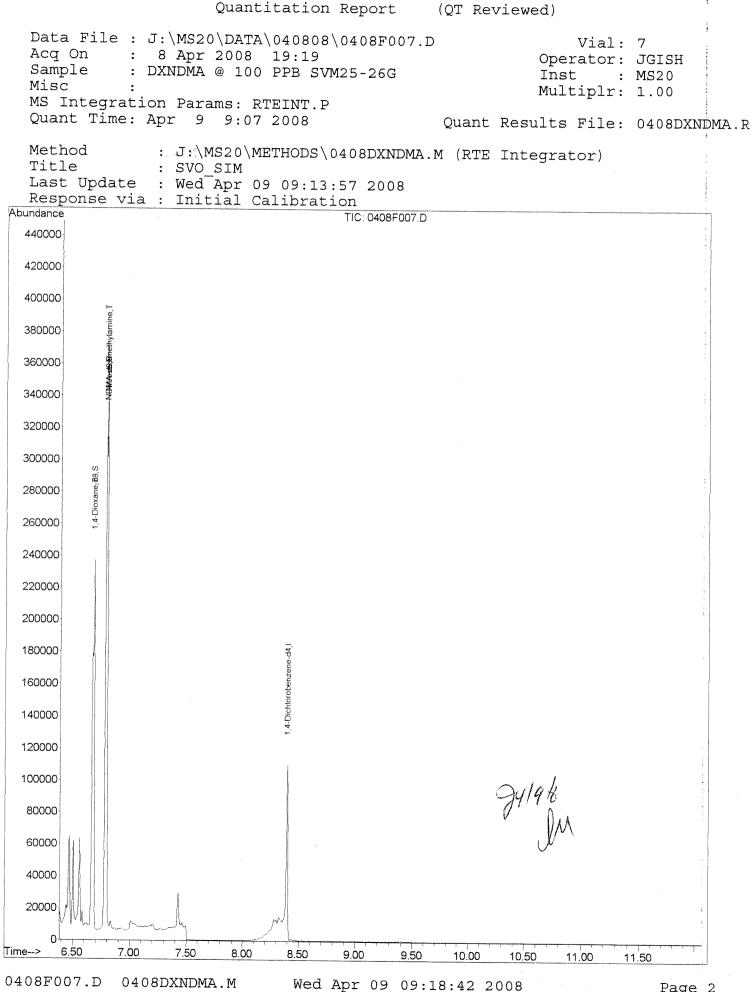
Wed Apr 09 09:06:55 2008

Quantitation	Repo:	rt	(QT Review	ved)		
Data File : J:\MS20\DATA\040808\04 Acq On : 8 Apr 2008 19:19 Sample : DXNDMA @ 100 PPB SVM25 Misc : MS Integration Params: RTEINT.P Quant Time: Apr 09 09:03:31 2008			Or II	Vial: perator: nst : ntiplr: s File:	JGISH MS20 1.00	NDMA.RES
Quant Method : J:\MS20\METHODS\040 Title : SVO_SIM Last Update : Wed Apr 09 09:01:29 Response via : Initial Calibration DataAcq Meth : DIOXNDMA	2008		RTE Integi	rator)		
Internal Standards	R.T.	QIon	Response	Conc U	nits Dev	/(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	83342m	50.00	ng/ml	-0.03
System Monitoring Compounds 3) 1,4-Dioxane-d8 Spiked Amount 50.000 5) NDMA-d6 Spiked Amount 50.000		96 80		ery =	220.449 ng/ml	-0.03
Target Compounds 2) 1,4-Dioxane 4) N-Nitrosodimethylamine			80083 120655		Qv ng/ml ng/ml	

Jylethe for

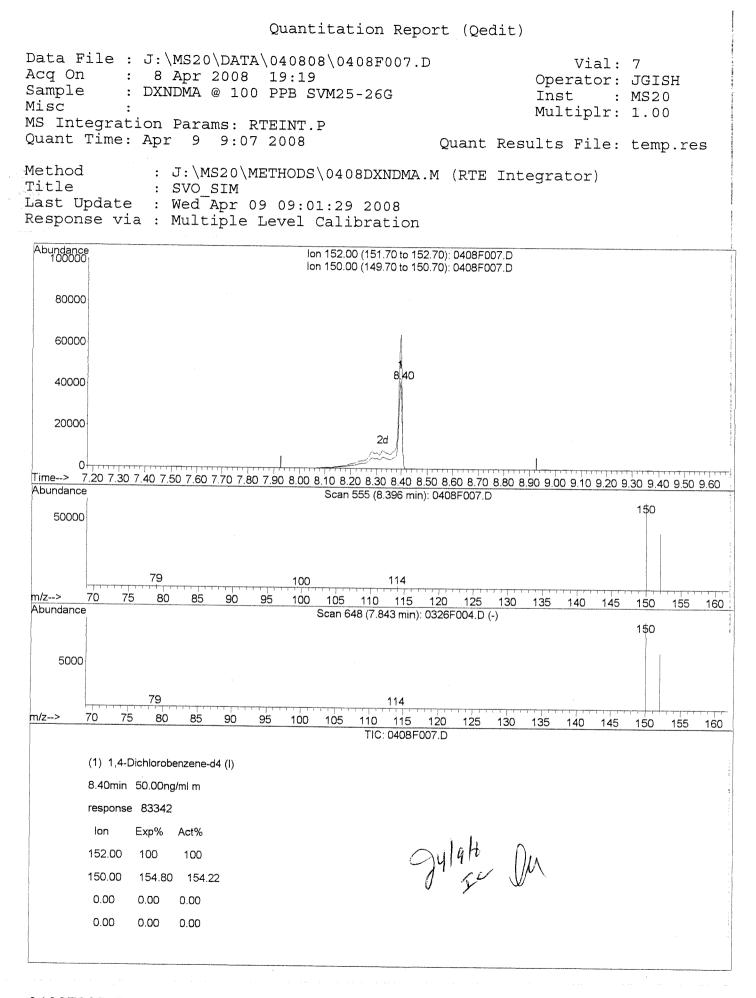
(#) = qualifier out of range (m) = manual integration 0408F007.D 0408DXNDMA.M Wed Apr 09 09:18:42 2008

- - - - -



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0408F007.D 0408DXNDMA.M

Wed Apr 09 09:07:17 2008

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040808\0408F008.D Vial: 8 Acq On : 8 Apr 2008 19:39 Sample : DXNDMA @ 250 PPB SVM25-26H Operator: JGISH Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 09 09:03:31 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO_SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Initial Calibration DataAcg Meth : DIOXNDMA Internal Standards R.T. QIon Response Conc Units Dev(Min) -----1) 1,4-Dichlorobenzene-d4 8.43 152 83374m 50.00 ng/ml 0.00 System Monitoring Compounds

 3) 1,4-Dioxane-d8
 6.69
 96
 172094
 289.11 ng/ml
 0.00

 Spiked Amount
 50.000
 Recovery
 =
 578.22%

 5) NDMA-d6
 6.81
 80
 317624
 280.12 ng/ml
 0.00

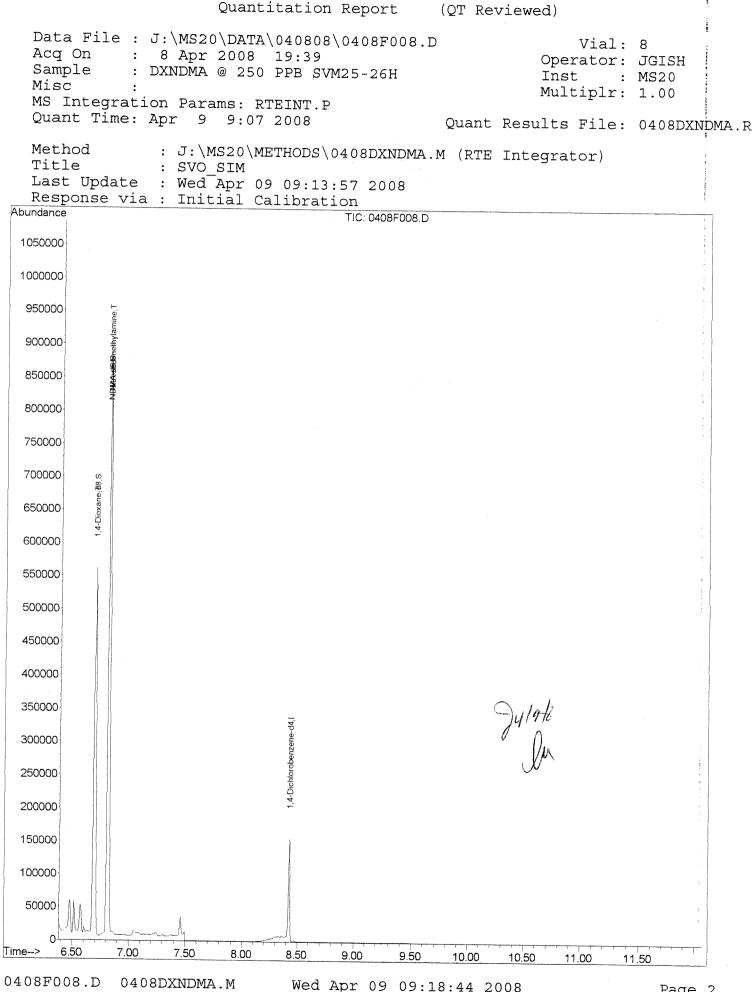
 Spiked Amount
 50.000
 Recovery
 =
 560.000

 Target Compounds Qvalue

 2) 1,4-Dioxane
 6.70
 88
 209760
 282.85 ng/ml
 96

 4) N-Nitrosodimethylamine
 6.82
 74
 317593
 273.94 ng/ml#
 95

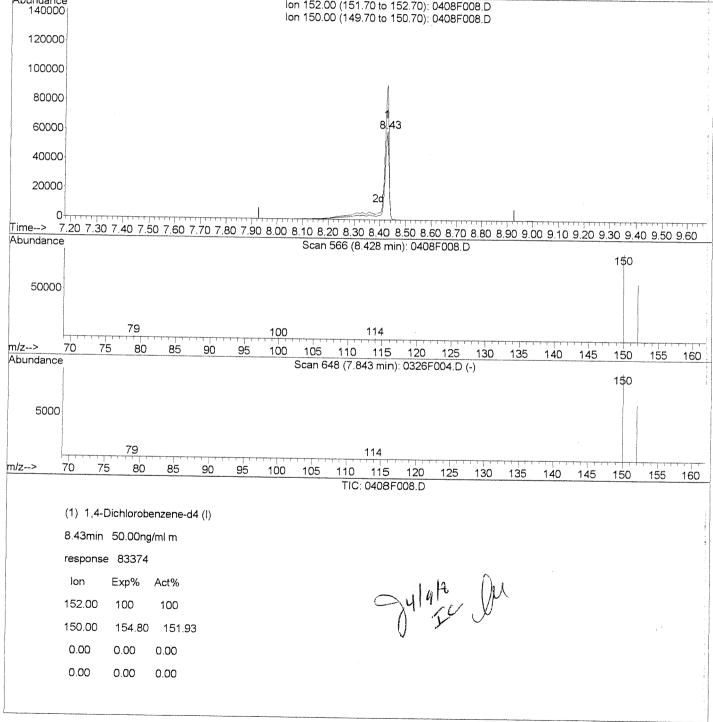
Jy/ gtb ()



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Quantitation Report (Qedit) Data File : J:\MS20\DATA\040808\0408F008.D Vial: 8 Acq On 8 Apr 2008 : 19:39 Operator: JGISH Sample : DXNDMA @ 250 PPB SVM25-26H Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 9 9:07 2008 Quant Results File: temp.res Method .: J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Multiple Level Calibration Abundance Ion 152.00 (151.70 to 152.70); 0408F008.D 140000



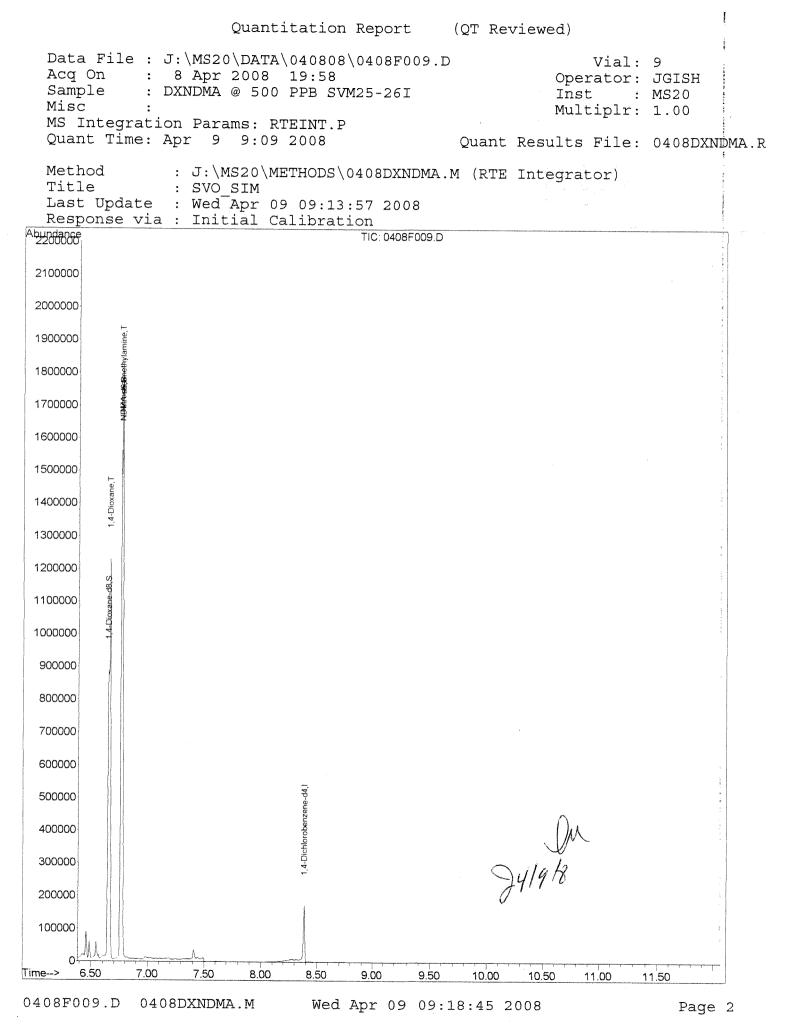
0408F008.D 0408DXNDMA.M

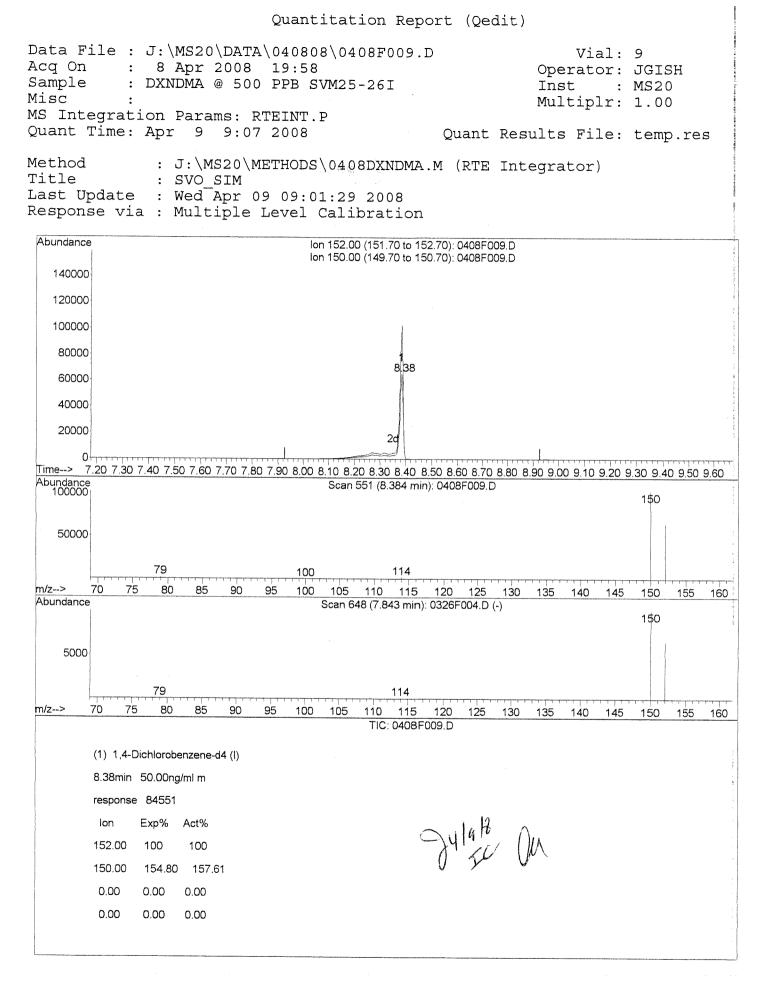
Wed Apr 09 09:07:36 2008

Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040808\0408F009.D Vial: 9 Acq On : 8 Apr 2008 19:58 Operator: JGISH Sample : DXNDMA @ 500 PPB SVM25-26I Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 09 09:03:32 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QIon Response Conc Units Dev(Min) 1) 1,4-Dichlorobenzene-d4 8.38 152 84551m 50.00 ng/ml -0.04 System Monitoring Compounds 6.65 96 348465m 577.25 ng/ml -0.04 Recovery = 1154.50% 6.76 80 637085m 554.03 ng/ml -0.05 3) 1,4-Dioxane-d8 Spiked Amount 50.000 5) NDMA-d6 Spiked Amount 50.000 Recovery = 1108.06% Target Compounds Qvalue 2) 1,4-Dioxane 6.66 88 424259m 564.13 ng/ml 4) N-Nitrosodimethylamine 6.77 74 638826 543.34 ng/ml# 95

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(#) = qualifier out of range (m) = manual integration 0408F009.D 0408DXNDMA.M Wed Apr 09 09:18:45 2008 Pa



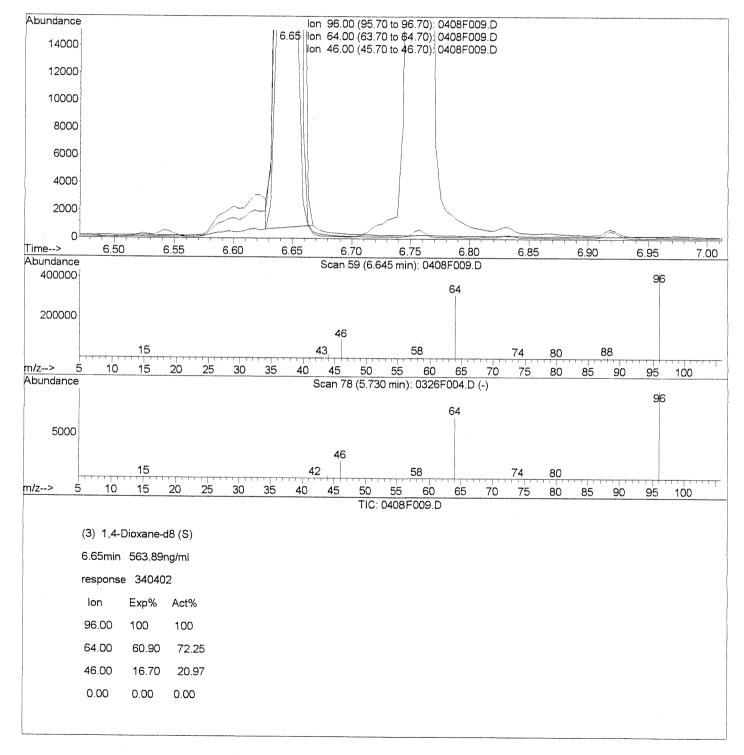


Wed Apr 09 09:08:01 2008

Quantitation Report (Qedit)

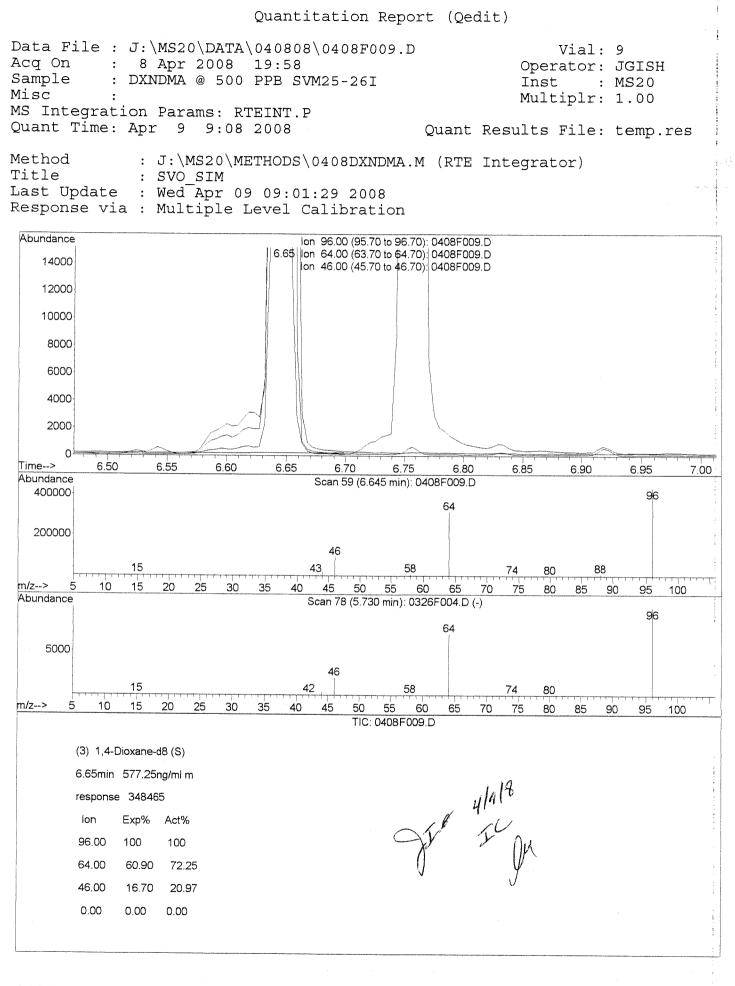
Data File : J:\MS20\DATA\040808\0408F009.D Vial: 9 Acq On 8 Apr 2008 : 19:58 **Operator: JGISH** Sample : DXNDMA @ 500 PPB SVM25-261 Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 9 9:07 2008 Quant Results File: temp.res Jele : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Method Title : SVO SIM Last Update : Wed Apr 09 09:01:29 2008

Response via : Multiple Level Calibration

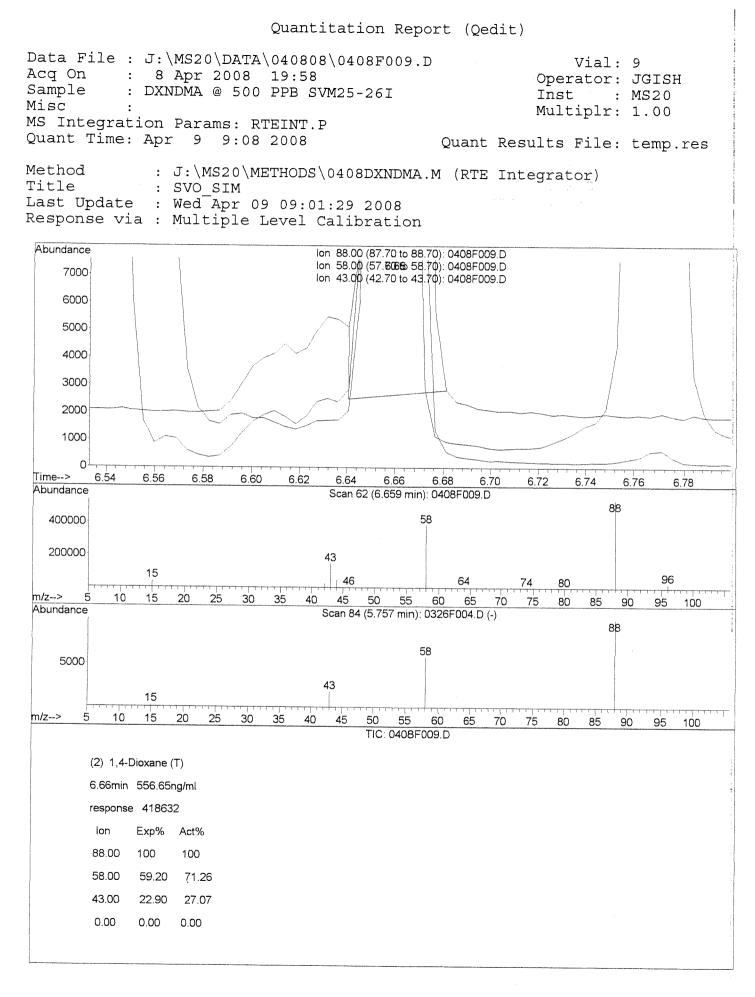


0408F009.D 0408DXNDMA.M

Wed Apr 09 09:08:45 2008

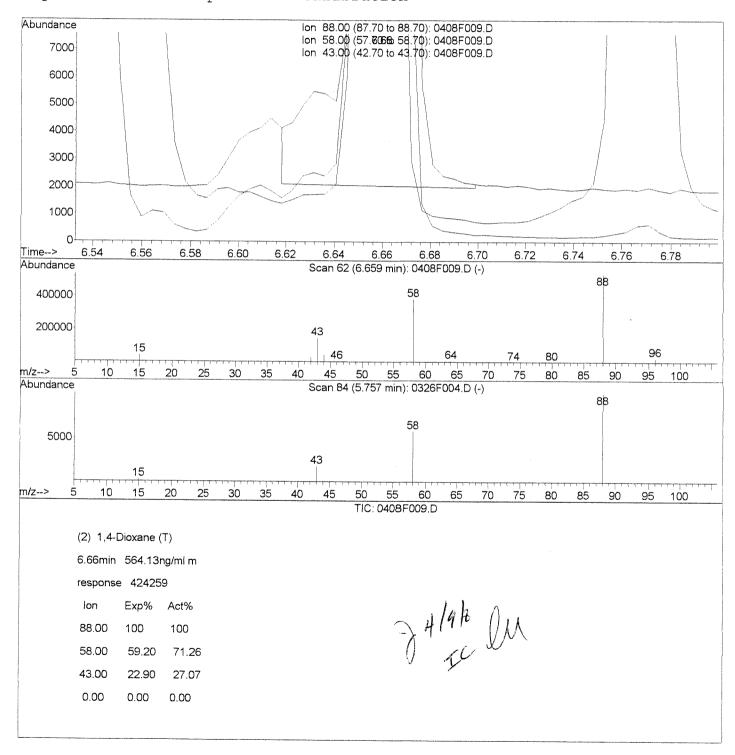


Wed Apr 09 09:08:55 2008



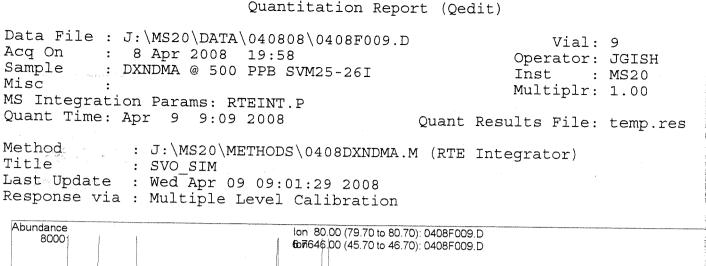
Wed Apr 09 09:09:06 2008

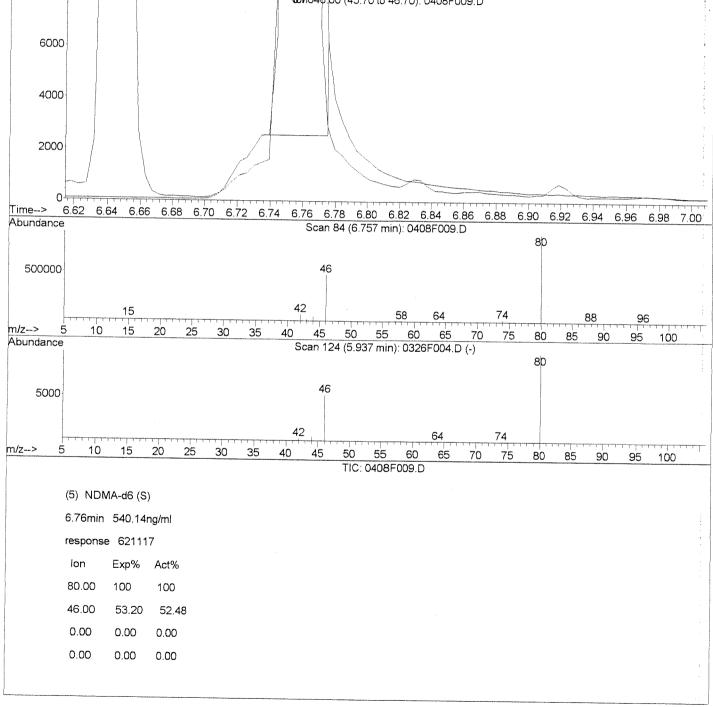
Quantitation Report (Qedit) Data File : J:\MS20\DATA\040808\0408F009.D Vial: 9 Acq On 8 Apr 2008 : 19:58 **Operator: JGISH** Sample : DXNDMA @ 500 PPB SVM25-261 Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 9 9:09 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 09:01:29 2008 Response via : Multiple Level Calibration



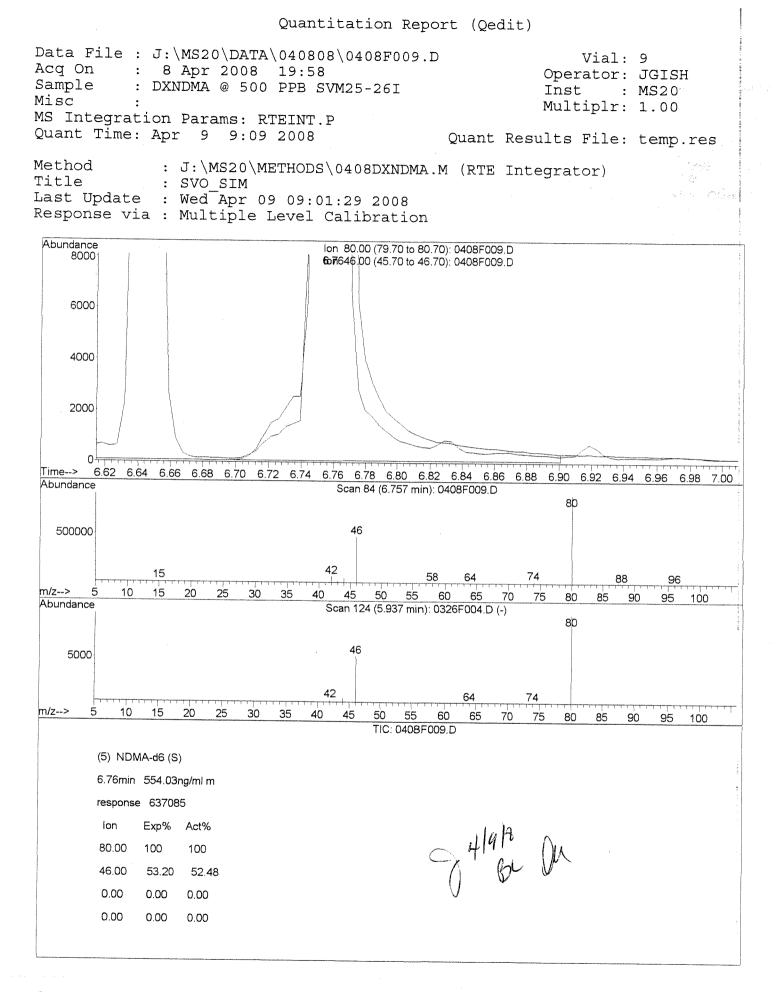
0408F009.D 0408DXNDMA.M

Wed Apr 09 09:09:26 2008





Wed Apr 09 09:09:38 2008



Wed Apr 09 09:09:56 2008

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client:	Environmental Chemistry Consulting Servi	Service Request:	
Project:	Kuhlman Electric	Date Analyzed:	

Continuing Calibration Verification Summary 1,4-Dioxane by GC/MS

Calibration Type: Analysis Method:	Internal Standard 8270C SIM	Calibration Calibration	ID: CAI	L7233
		Analysis	Lot: KW	G0803281
		τ	nits: ng/n	nl
File ID:	J:\MS20\DATA\040908\0409F002.D			

Analyte Name	Expected	Result	Min RF	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,4-Dioxane	50	44	0.01	0.509	0.450	-11	NA	± 20 %	AverageRF
1,4-Dioxane-d8	50	44	0.01	0.416	0.366	-12	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

Exception Report

Data File:	J:\MS20\DATA\040908\0409F002.D
Lab ID:	KWG0803281-2
RunType:	CCV
Matrix:	WATER

Date Acquired: Date Quantitated: Batch ID: Analysis Method: MethodJoinID: 04/09/2008 11:48 04/09/2008 12:02 KWG0803281 8270C SIM MJ402

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Tune Window	NA	NA	NA	x	
ICAL Pass/Fail	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Initial Calibration Minimum RF	NA	NA	NA	x	
Initial Calibration SPCC/CCC	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Internal Standards	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	х	

Primary Review: 4/10 Secondary Review: 4/10

Quantitation Report

WATER : 04/10/2008
p:
D: CAL7233
MJ402 d on Method
MS20 2 1.0 nits: ng/ml
Area Criteria
ОК
%Rec ec Limits Rpt
55-100 NA
g/L
Final Conc Q Rpt

U: Undetected at or above MDL J: Analyte detected above MDL, but below MRL B: Hit above MRL also found in Method Blank E: Analyte concentration above high point of ICAL N: Presumptive evidence of compound

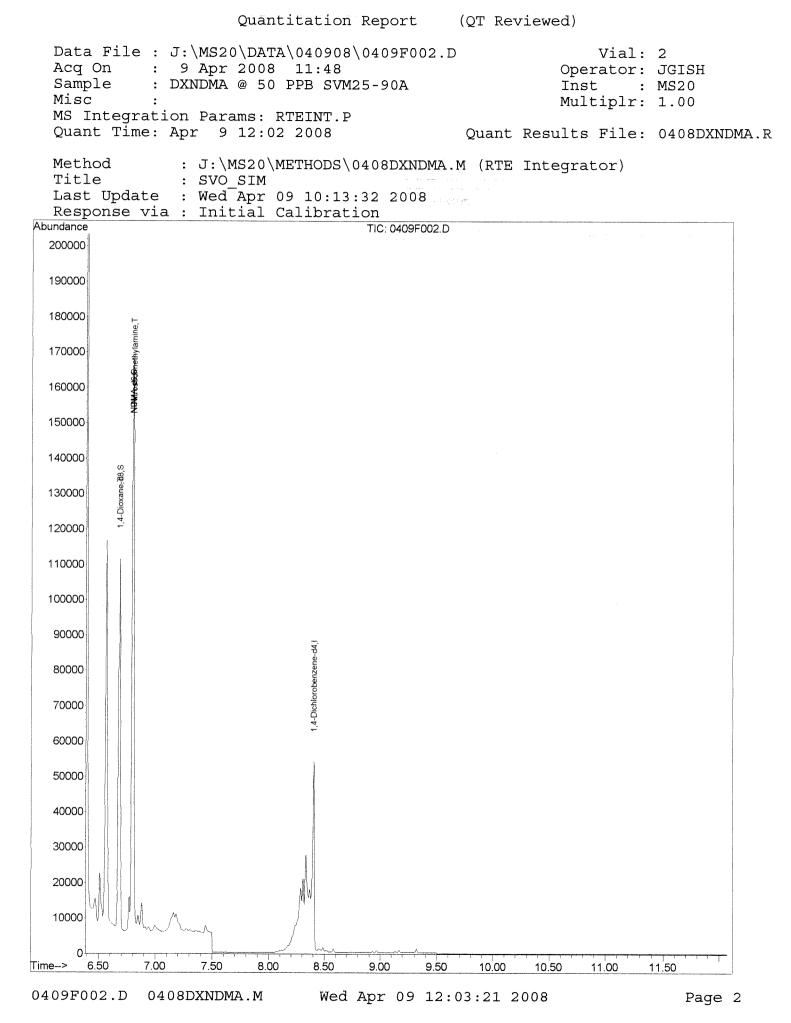
Printed: 04/10/2008 09:54:19 u:\Stealth\Crystal.rpt\quant1.rpt

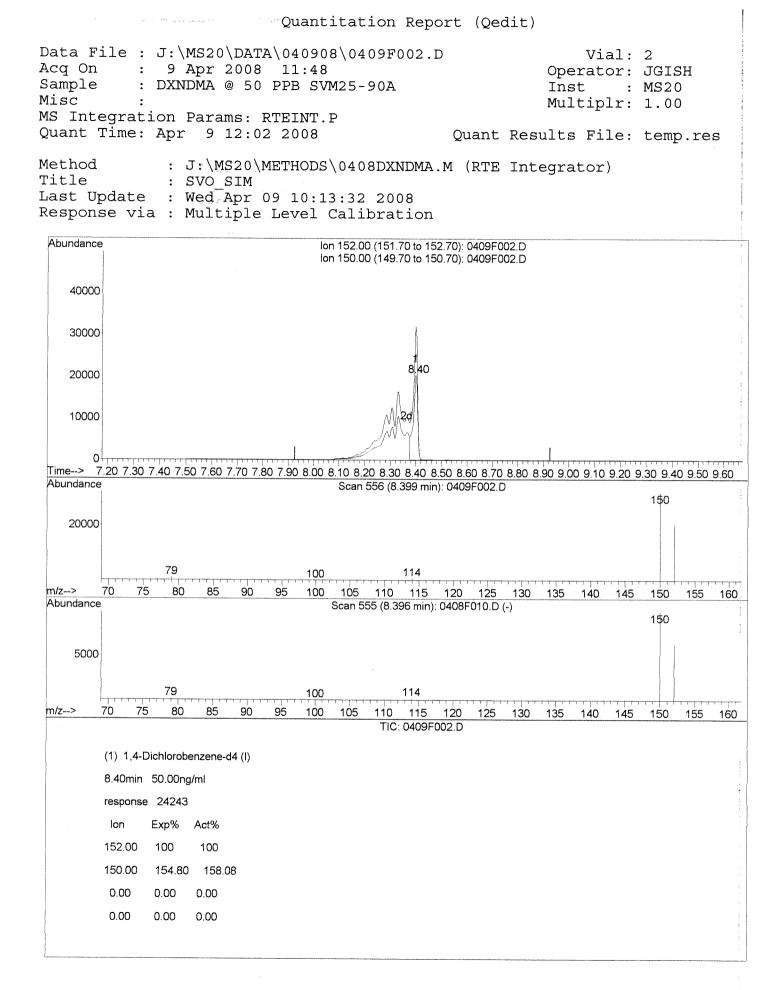
D: Result from dilution Nesati formation performed
 Compound manually deleted
 NR: Analyte not reported from this analysis

- *: Result fails acceptance criteria #: Acceptance criteria not applicable ?: Insufficient information to determine acceptance e: Result >= MRL, but MRL less than low point of ICAL c: check for co-elution

J:\MS20\DATA\040908\0409F002.D

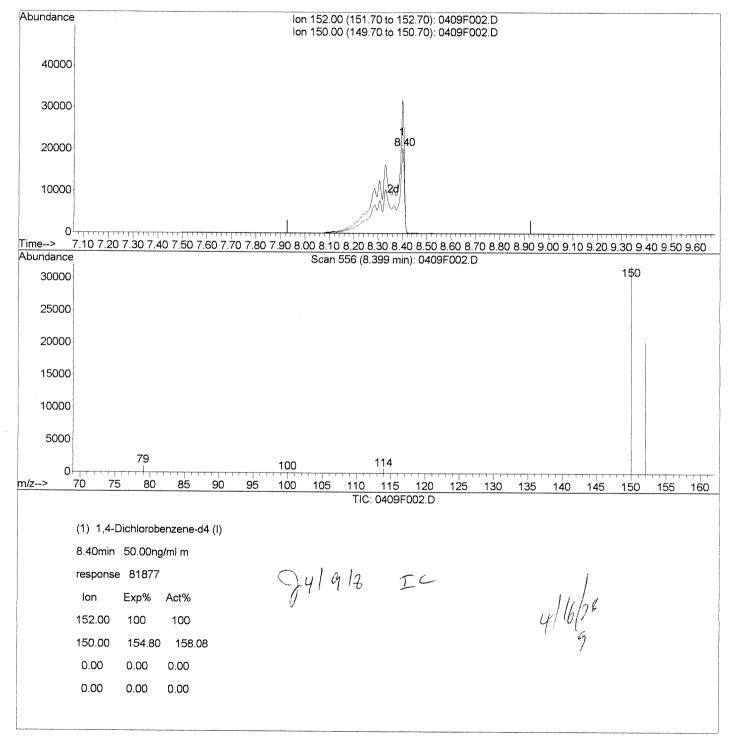
Quantitation Report (QT Reviewed) Data File : J:\MS20\DATA\040908\0409F002.D Vial: 2 Acq On : 9 Apr 2008 11:48 Operator: JGISH Sample : DXNDMA @ 50 PPB SVM25-90A Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 09 12:02:29 2008 Quant Results File: 0408DXNDMA.RES Quant Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM and the second second second second Last Update : Wed Apr 09 10:13:32 2008 $\label{eq:product} \left\{ \begin{array}{c} (1-1)^{2} \left(1-1 \right) \\ (1-1)^{2} \left(1-$ Response via : Initial Calibration DataAcq Meth : DIOXNDMA Internal Standards R.T. QIon Response Conc Units Dev(Min) -1) 1,4-Dichlorobenzene-d4 8.40 152 81877m 50.00 ng/ml -0.03 System Monitoring Compounds 6.67 96 3) 1,4-Dioxane-d8 29944 44.00 ng/ml -0.02 Spiked Amount 50.000 Recovery = 88.00% 6.79 80 5) NDMA-d6 55518 47.05 ng/ml -0.02 Spiked Amount 50.000 Recovery = 94.10% Target Compounds Qvalue 2) 1,4-Dioxane6.69883687744.26 ng/ml914) N-Nitrosodimethylamine6.80745639647.14 ng/ml91





Wed Apr 09 12:02:38 2008

Quantitation Report (Qedit) Data File : J:\MS20\DATA\040908\0409F002.D Vial: 2 Acq On 9 Apr 2008 : 11:48 **Operator: JGISH** Sample : DXNDMA @ 50 PPB SVM25-90A Inst : MS20 Misc Multiplr: 1.00 MS Integration Params: RTEINT.P Quant Time: Apr 9 12:02 2008 Quant Results File: temp.res Method : J:\MS20\METHODS\0408DXNDMA.M (RTE Integrator) Title : SVO SIM Last Update : Wed Apr 09 10:13:32 2008 Response via : Multiple Level Calibration



0409F002.D 0408DXNDMA.M

Wed Apr 09 12:06:51 2008

Organic Analysis: <u>1,4-Dioxane by GC/MS</u>

Validation Package

Sample Prep and Screen Data

Preparation Information

Group ID: Department:	KWG0803108 Semivoa GCMS	Prep Method:	METHOD		Prep Date:	04/04/08 00:00
Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	
K0802796-001	KEP-GW-020A-003	8270C SIM 14_D	WATER	100ml	25ml	
K0802796-002	KEP-GW-020B-003	8270C SIM 14_D	WATER	100ml	25ml	
K0802796-003	Duplcate 2	8270C SIM 14 D	WATER	100ml	25ml	
<0802880-001	CSW-WA1-023	8270C SIM 14 D	WATER	100ml	25ml	
K0802880-002	Duplicate	8270C SIM 14 D	WATER	100ml	25ml	
KWG0803108-1	Lab Control Sample	8270C SIM 14 D	WATER	100ml	25ml	
WG0803108-2	Duplicate Lab Control Sampl	8270C SIM 14 D	WATER	100ml	25ml	
KWG0803108-3	Method Blank	8270C SIM 14_D	WATER	100m1	25ml	

		Surrogate	Amount Added	Spike	Amount Added	
Lab Code	Prep Event ID	Solution ID		Solution ID		Witness
K0802796-001	699168	SVM25-54F	50uL			JEpps
K0802796-002	699169	SVM25-54F	50uL			JEpps
K0802796-003	699170	SVM25-54F	50uL			JEpps
K0802880-001	699171	SVM25-54F	50uL			JEpps
K0802880-002	699172	SVM25-54F	50uL			JEpps
KWG0803108-1	699173	SVM25-54F	50uL	SVM24-96C	50uL	JEpps
KWG0803108-2	699174	SVM25-54F	50uL	SVM24-96C	50uL	JEpps
KWG0803108-3	699175	SVM25-54F	50uL			JEpps

Comments: <u>TS</u> Sum 25-39D

Started By: (CSethe	Assisted By:			Training Yes No
Completed By:	CSethe	Assisted By:			Yes No
Reviewed By:		Date: 4/8/8	Storage:	M520	
Chain of Custody					
Relinquished By:	Cunt E to	f	Date:	4-8-08	Extracts Examined
Received By:	9		Date:	4-8-8	Yes No
Printed: 04/08/200	· · · · · · · · · · · · · · · · · · ·	Preparation Information			Page 1 of 1
u:\Stealth\Crystal.rpt\prep	bl.rpt	380			

Preparation Information

Group ID:	KWG0803108	Prep Method:	METHOD	Prep Date:	04/04/08 00:00
Department:	Semivoa GCMS				

#	Lab Code	Client ID	B#	V	Product	Matrix	Amt. Ext.	pН	Int. Vol.	Final Vol.	Surr. Added 중 나/나/c	Spike Added
1	K0802796-001	KEP-GW-020A-003	NA	V	8270C SIM 14_DIOXANE	WATER	100	NA	NA	25 50	50 ML	NA
2	K0802796-002	KEP-GW-020B-003			8270C SIM 14_DIOXANE	WATER			ſ			- Managaran and San
3	K0802796-003	Duplcate 2	1	~	8270C SIM 14_DIOXANE	WATER	-	1	-	a suma		
4	K0802880-001	CSW-WA1-023		v	8270C SIM 14_DIOXANE	WATER		1.	-			
5	K0802880-002	Duplicate		~	8270C SIM 14_DIOXANE	WATER						\checkmark
6	KWG0803108-1	Lab Control Sample			8270C SIM 14_DIOXANE	WATER						50 ML
7	KWG0803108-2	Duplicate Lab Control Sample		8 April	8270C SIM 14_DIOXANE	WATER			r			\downarrow
8	KWG0803108-3	Method Blank	J	4,000	8270C SIM 14_DIOXANF	WATER	J	J	J	V	V	NA

Comments:

PR++ 65027

V2 FV

Surrogate ID:	5VM25-54F	exp 2-12-09	use SONIC SOPP	Μ	
Spike ID:	5VM24-96C	exp 7-1-08	USE 50 ml @ 50P	'PM	
Witness:	JEpps 12 4/4	108			
Started By:	CSethe		Assisted By:		
Completed By:	CES 4-8-	08	Assisted By:		
Printed: 04/04	/2008 10:20:17		Preparation Information	Page	1 of 1

u:\Stealth\Crystal.rpt\prep2.rpt

Additional Prep Information For 1,4 Dioxane by EPA 3510
Service Request KOBO 2796 Workgroup KWG080 3108
Pre-Prep Information:
DCM Lot 47311
Batch Start (Time/Date/Initial): <u>8:20am 4/4/4/08/12 nd GES</u>
Batch Start (Time/Date/Initial): <u>8:20am /4/4/08/12 and CGS</u> Batch Stop (Time/Date/Initial): <u>10:00am /4/4/08/12 and CGS</u>
Sulfate Lot # <u>47116777</u> Salt Lot # <u>C46 H12</u>
Extract Storage:
Date Completed:4-8-08
Comments/Observations:
Bench Sheet Review Check List
Par Hold Times Met (if no, Reason:)
 Prep date, dept, method, product code correct in stealth Spike Information correct
 Weights/Volumes and units correct on raw and final bench sheets
Sample IDs have been checked—Bottle numbers appended if required
Provide Names present for: Started by, Completed by, relinquished by, and witnessed by,
an Training has been circled
Extract Storage recorded Additional Prep Sheet completely filled out: (NA as line out Planks)
 Additional Prep Sheet completely filled out (NA or line out Blanks) All clean-ups have been noted on additional prep sheet
\mathbf{x} Signed service request with Form V, if applicable, has been attached

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K Instrument Type Lakoratory ID Client ID Preduct Marty Dilution Aquisition Started Aq	• •		20/11/2	4	1001				ulio to	$\mathbf{\hat{v}}$
Interval Interval Interval Interval Number 1 1 Number 1 Number 1 1 1	19/2008 18:27:04	18:15:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	GM-08-13	K0802660-005	SMPL	J:\MS20\DATA\040908\0409F022.D
Intrument Type Intrument Type <t< td=""><td>9/2008 18:08:04</td><td>17:56:00 04/0</td><td>04/09/2008</td><td>1.0</td><td>WATER</td><td>8270C SIM 14_</td><td>GM-08-12</td><td>K0802660-004</td><td>SMPL</td><td>J:\MS20\DATA\040908\0409F021.D</td></t<>	9/2008 18:08:04	17:56:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	GM-08-12	K0802660-004	SMPL	J:\MS20\DATA\040908\0409F021.D
International description		17:37:00 04/0	04/09/2008	1.0	WATER		GM-08-11	K0802660-003	SMPL	J:\MS20\DATA\040908\0409F020.D
Instrument Type Instrument Type <t< td=""><td>)9/2008 17:30:04</td><td>17:18:00 04/0</td><td>04/09/2008</td><td>1.0</td><td>WATER</td><td>8270C SIM 14_</td><td>CTMW-24D-0308</td><td>K0802593-019</td><td>SMPL</td><td>J:\MS20\DATA\040908\0409F019.D</td></t<>)9/2008 17:30:04	17:18:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	CTMW-24D-0308	K0802593-019	SMPL	J:\MS20\DATA\040908\0409F019.D
Intrument Type Intrument Type Intrument Type Intrument Type Intrument Type)9/2008 17:10:04	16:58:00 04/0	04/09/2008	1.0	WATER		CTMW-9-7-0308	K0802593-010	SMPL	J:\MS20\DATA\040908\0409F018.D
MS20- Type Laboratory ID Client ID Product Marix Dilution Acquisiton Started Acquisiton Faded M9080409F001.D DFTPP KWG0803281.1 GCMSTming-Dec 8270 C SIM 14 WATER 1.0 04/09/2008 11:24:00 04/09/2008 11:24:00 04/09/2008 11:24:00 04/09/2008 11:24:00 04/09/2008 11:24:00 04/09/2008 11:24:00 04/09/2008 12:20:00 10/09/2008 12:20:00 04/09/2008 12:20:00 04/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00 10/09/2008 12:20:00)9/2008 16:51:04	16:39:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	CTMW-7-0308	K0802593-009	SMPL	J:\MS20\DATA\040908\0409F017.D
MS20)9/2008 16:32:04	16:20:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	CTMW-25D-0308	K0802593-006	SMPL	J:\MS20\DATA\040908\0409F016.D
		16:00:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	CTMW-9-0308	K0802593-004	SMPL	J:\MS20\DATA\040908\0409F015.D
MS20 Instrument Type Instrument Type Instrument Type MS Semivoa GCMS Type Laboratory ID Clent ID Product Matrix Dilution Acquisition Ended H400880409F001.D DFTPP KWG0803281.2 Continuing Calibration 8270C SIM 14 WATER 1.0 Adv9/2008 1.24:00 Adv9/2008 1.24:00 H400880409F001.D CCV KWG0803108-1 Lab Control Sample 8270C SIM 14 WATER 1.0 04/09/2008 12:27:00 H409880409F001.D KWG0803108-1 Lab Control Sample 8270C SIM 14 WATER 1.0 04/09/2008 12:27:00 H409880409F001.D SMPL KWG0803108-1 Lab Control Sample 8270C SIM 14 WATER <th< td=""><td></td><td>15:41:00 04/0</td><td>04/09/2008</td><td>1.0</td><td>WATER</td><td>8270C SIM 14_</td><td>Duplicate Matrix Spike</td><td>KWG0802999-2</td><td>DMS</td><td>J:\MS20\DATA\040908\0409F014.D</td></th<>		15:41:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	Duplicate Matrix Spike	KWG0802999-2	DMS	J:\MS20\DATA\040908\0409F014.D
MS20 Instrument Type MS Semivoa GCMS Semivoa GCMS Type Laboratory ID Client ID Product Maining -Dec R270C SIM 14 WATER 1.0 Aquisition Started Aquisition Ended HOPROR DD DFTPP KWG0803281-2 Continuing Calibration 8270C SIM 14 WATER 1.0 04/09/2008 1:2:0:04 HMG 60803281-2 Continuing Calibration 8270C SIM 14 WATER 1.0 04/09/2008 1:2:0:04 HMG 60803108-1 Lab Control Sample 8270C SIM 14 WATER 1.0 04/09/2008 1:2:0:04 HOPS 60 SMPL KWG0803108-1 Lab Control Sample 8270C SIM 14 WATER 1.0 04/09/2008 1:2::0:0 AVEG803108-1 </td <td>)9/2008 15:34:04</td> <td>15:22:00 04/0</td> <td>04/09/2008</td> <td>1.0</td> <td>WATER</td> <td>8270C SIM 14_</td> <td>Matrix Spike</td> <td>KWG0802999-1</td> <td>MS</td> <td>J:\MS20\DATA\040908\0409F013.D</td>)9/2008 15:34:04	15:22:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	Matrix Spike	KWG0802999-1	MS	J:\MS20\DATA\040908\0409F013.D
MS20 Instrument Type Instrument Type MS Semivoa GCMS Semivoa GCMS Image Colspan= Colspan= Colspan= Colspan="6">Image Colspan= Colspan= Colspan= Colspan="6">Image Colspan= Colspan= Colspan= Colspan= Colspan="6">Image Colspan= Colspan= Colspan= Colspan="6">Image Colspan= Colspa		15:03:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	Lab Control Sample	KWG0802999-3	LCS	J:\MS20\DATA\040908\0409F012.D
Instrument Type: Instrument Type: MS Semivoa GCMS Type Laboratory ID Client ID Product Martx Dilution Acquisition Started Acquisition Ended 4409080409F001.D DFTPP KWG0803281-1 GCMS Tuning - Dec $8270C SIM 14$ WATER 1.0 04/09/2008 11:24:00 04/09/2008 11:38:47 44090800409F003.D MB KWG0803108-1 GCMS Tuning Calibration $8270C SIM 14$ WATER 1.0 04/09/2008 12:27:00 04/09/2008 12:39:04 44090800409F003.D MB KWG0803108-1 Lab Control Sample $8270C SIM 14$ WATER 1.0 04/09/2008 12:27:00 04/09/2008 12:39:04 44090800409F005.D DLCS KWG0803108-2 Duplicate Lab Control Sample $8270C SIM 14$ WATER 1.0 04/09/2008 13:26:00 04/09/2008 13:36:04 44090800409F005.D SMPL K0802796-002 KEP-GW-020A-003 $8270C SIM 14$ WATER 1.0 04/09/2008 13:26:00 04/09/200)9/2008 14:55:04	14:43:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	Method Blank	KWG0802999-4	MB	J:\MS20\DATA\040908\0409F011.D
$ \begin{array}{l lllllllllllllllllllllllllllllllllll$		14:24:00 04/(04/09/2008	1.0	WATER	8270C SIM 14_	Duplicate	K0802880-002	SMPL	J:\MS20\DATA\040908\0409F010.D
MS20 Semivoa GCMS Type Laboratory ID Client ID Product Matrix Dilution 140908/0409F001.D DFTPP KWG0803281-1 GC/MS Tuning - Dec 8270C SIM 14 WATER 1.0 140908/0409F002.D CCV KWG0803281-2 Continuing Calibration 8270C SIM 14 WATER 1.0 140908/0409F003.D MB KWG0803108-1 Lab Control Sample 8270C SIM 14 WATER 1.0 140908/0409F004.D LCS KWG0803108-1 Lab Control Sample 8270C SIM 14 WATER 1.0 140908/0409F005.D DLCS KWG0803108-2 Duplicate Lab Control \$ 8270C SIM 14 WATER 1.0 140908/0409F005.D DLCS KWG0803108-2 Duplicate Lab Control \$ 8270C SIM 14 WATER 1.0 140908/0409F005.D DLCS KWG0803108-2 Duplicate Lab Control \$ 8270C SIM 14 WATER 1.0 140908/0409F005.D SMPL K0802796-001 KEP-GW-020A-003 8270C SIM 14 WATER 1.0 140908/0409F007.D SMPL <td< td=""><td>)9/2008 14:17:04</td><td>14:05:00 04/(</td><td>04/09/2008</td><td>1.0</td><td>WATER</td><td>8270C SIM 14_</td><td>CSW-WA1-023</td><td>K0802880-001</td><td>SMPL</td><td>J:\MS20\DATA\040908\0409F009.D</td></td<>)9/2008 14:17:04	14:05:00 04/(04/09/2008	1.0	WATER	8270C SIM 14_	CSW-WA1-023	K0802880-001	SMPL	J:\MS20\DATA\040908\0409F009.D
MS20Semivoa GCMSKWG0803281TypeLaboratory IDClient IDProductMatrixDilution040908/0409F001.DDFTPPKWG0803281-1GC/MS Tuning - Dec8270C SIM 14WATER1.0040908/0409F002.DCCVKWG0803281-2Continuing Calibration8270C SIM 14WATER1.0040908/0409F003.DMBKWG0803108-3Method Blank8270C SIM 14WATER1.0040908/0409F004.DLCSKWG0803108-1Lab Control Sample8270C SIM 14WATER1.0040908/0409F005.DDLCSKWG0803108-2Duplicate Lab Control \$8270C SIM 14WATER1.0040908/0409F006.DSMPLK0802796-001KEP-GW-020A-0038270C SIM 14WATER1.0040908/0409F007.DSMPLK0802796-002KEP-GW-020B-0038270C SIM 14WATER1.0)9/2008 13:58:04	13:46:00 04/0	04/09/2008	1.0	WATER	8270C SIM 14_	Duplcate 2	K0802796-003	SMPL	J:\MS20\DATA\040908\0409F008.D
MS20Semivoa GCMS KWG0803281TypeLaboratory IDClient IDProductMatrixDilution40908/0409F001.DDFTPPKWG0803281-1GC/MS Tuning - Dec8270C SIM 14WATER1.040908/0409F002.DCCVKWG0803281-2Continuing Calibration8270C SIM 14WATER1.040908/0409F003.DMBKWG0803108-3Method Blank8270C SIM 14WATER1.040908/0409F005.DLCSKWG0803108-1Lab Control Sample8270C SIM 14WATER1.040908/0409F005.DDLCSKWG0803108-2Duplicate Lab Control \$8270C SIM 14WATER1.0)9/2008 13:38:04	13:26:00 04/(04/09/2008	1.0	WATER	8270C SIM 14_	KEP-GW-020B-003	K0802796-002	SMPL	J:\MS20\DATA\040908\0409F007.D
MS20Semivoa GCMS KWG0803281TypeLaboratory IDClient IDProductMatrixDilution40908/0409F001.DDFTPPKWG0803281-1GC/MS Tuning - Dec8270C SIM 14WATER1.040908/0409F002.DCCVKWG0803281-2Continuing Calibration8270C SIM 14WATER1.040908/0409F003.DMBKWG0803108-3Method Blank8270C SIM 14WATER1.040908/0409F004.DLCSKWG0803108-1Lab Control Sample8270C SIM 14WATER1.040908/0409F005.DDLCSKWG0803108-2Duplicate Lab Control 58270C SIM 14WATER1.0		13:05:00 04/(04/09/2008	1.0	WATER	8270C SIM 14_	KEP-GW-020A-003	K0802796-001	SMPL	J:\MS20\DATA\040908\0409F006.D
MS20Semivoa GCMS KWG0803281TypeLaboratory IDClient IDProductMatrixDilution040908/0409F001.DDFTPPKWG0803281-1GC/MS Tuning - Dec8270C SIM 14WATER1.0040908/0409F002.DCCVKWG0803281-2Continuing Calibration8270C SIM 14WATER1.0040908/0409F003.DMBKWG0803108-3Method Blank8270C SIM 14WATER1.0040908/0409F004.DLCSKWG0803108-1Lab Control Sample8270C SIM 14WATER1.0)9/2008 12:58:04	12:46:00 04/(04/09/2008	1.0	WATER		Duplicate Lab Control {	KWG0803108-2	DLCS	J:\MS20\DATA\040908\0409F005.D
MS20Semivoa GCMS KWG0803281TypeLaboratory IDClient IDProductMatrixDilution40908/0409F001.DDFTPPKWG0803281-1GC/MS Tuning - Dec8270C SIM 14WATER1.040908/0409F002.DCCVKWG0803281-2Continuing Calibration8270C SIM 14WATER1.040908/0409F003.DMBKWG0803108-3Method Blank8270C SIM 14WATER1.0		12:27:00 04/(04/09/2008	1.0	WATER	8270C SIM 14_	Lab Control Sample	KWG0803108-1	LCS	J:\MS20\DATA\040908\0409F004.D
MS20Semivoa GCMS KWG0803281TypeLaboratory IDClient IDProductMatrixDilution40908/0409F001.DDFTPPKWG0803281-1GC/MS Tuning - Dec8270C SIM 14WATER40908/0409F002.DCCVKWG0803281-2Continuing Calibration8270C SIM 14WATER1.0)9/2008 12:20:04	12:08:00 04/(04/09/2008	1.0	WATER	8270C SIM 14_	Method Blank	KWG0803108-3	MB	J:\MS20\DATA\040908\0409F003.D
MS20 Instrument Type: Semivoa GCMS KWG0803281 Type Laboratory ID Client ID Product Matrix Dilution Acquisition Started 40908/0409F001.D DFTPP KWG0803281-1 GC/MS Tuning - Dec 8270C SIM 14 WATER 1.0 04/09/2008 11:24:00)9/2008 12:00:04	11:48:00 04/(04/09/2008	1.0	WATER	•	Continuing Calibration	KWG0803281-2	CCV	J:\MS20\DATA\040908\0409F002.D
MS20 Instrument Type: Semivoa GCMS KWG0803281 Type Laboratory ID Client ID Product Matrix Dilution Acquisition Started)9/2008 11:38:47		04/09/2008	1.0	WATER	8270C SIM 14_	GC/MS Tuning - Dec	KWG0803281-1	DFTPP	J:\MS20\DATA\040908\0409F001.D
MS20 Instrument Type: Semivoa GCMS KWG0803281	uisition Ended		Acquisition S	Dilution	Matrix	Product	Client ID	Laboratory ID	Туре	FileSpecification
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