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13 March 2009

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Mr. Gary Miller
Task Order Monitor
U.S. Environmental Protection Agency (EPA)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Subject: **Data Validation Report and Data Package (SDG ASA0086)**
Phase 5 Ground Water Investigation
Ground Water Split Sampling (13 January 2009)
Gulfco Marine Maintenance Site RI/FS Oversight
U.S. Environmental Protection Agency Region 6
Remedial Action Contract 2, Contract: EP-W-06-004
Task Order: 0006-RICO-06JZ

Dear Mr. Miller:

EA Engineering, Science, and Technology, Inc. (EA) is submitting one copy of the data validation report (Enclosure 2) and analytical data package (Enclosure 3) associated with the split ground water samples collected from monitoring wells NEMW32C and OCPT5 on 13 January 2009, and analyzed for volatile organic compounds (SW-846 Method 8260B). The attached table (Enclosure 1) compares the analytical results to the Preliminary Screening Values for Class 3 ground water (Table 18 of the remedial investigation/feasibility study) Work Plan, dated 16 May 2005 [Pastor, Behling & Wheeler, LLC]).

On 24 February 2009, EA transmitted the electronic version of the analytical data summary (in PDF format) via e-mail.

If you have any questions regarding this submittal, please call me at (972) 459-5040.

Sincerely,

Mark Paddack
Project Manager

Enclosures (3)

863271

cc: Michael Pheeny, EPA Contracting Officer (letter only)
Rena McClurg, EPA Project Officer (letter only)
Fritz Meyer, EA Program Manager (letter only via e-mail)
Jeff Hills, EA Financial Manager (letter only via e-mail)
File

Enclosure 1

Comparison of Ground Water Data and Preliminary Screening Values

GULFCO GROUND WATER SPLIT SAMPLE DATA - 13 JANUARY 2009
(LAB SDG ASA0086)

Sample ID	Lab Sample No.	Matrix	Collected	Volatile Organic Analyte	Result	Flag	Preliminary Screening Value[1]	Reporting Limit	Method Detection Limit	Units	Method	Dilution	Received	Analyzed
NEMW32C	1	WATER	1/13/2009	1,1,1,2-Tetrachloroethane	ND		7,860	1.00	0.332	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1,1-Trichloroethane	0.761	J	20,000	1.00	0.360	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1,2,2-Tetrachloroethane	ND		1,020	1.00	0.310	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		NA	1.00	0.382	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1,2-Trichloroethane	ND		500	1.00	0.352	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1-Dichloroethane	22.7		730,000	1.00	0.374	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1-Dichloroethene	1.46		700	1.00	0.427	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,1-Dichloropropene	ND		2,040	1.00	0.348	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2,3-Trichloropropane	5.35		29.2	1.00	0.304	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2,4-Trichlorobenzene	ND		7,000	1.00	0.484	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2,4-Trimethylbenzene	ND		365,000	1.00	0.598	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2-Dibromo-3-chloropropane (DBCP)	ND		20	5.00	0.342	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2-Dibromoethane (EDB)	ND		5	1.00	0.298	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2-Dichlorobenzene	ND		60,000	1.00	0.434	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2-Dichloroethane	0.581	J	500	1.00	0.392	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2-Dichloroethene (total)	114		NA	4.00	1.46	µg/L	8260B	2.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,2-Dichloropropane	ND		500	1.00	0.373	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,3,5-Trimethylbenzene	ND		365,000	1.00	0.488	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,3-Dichlorobenzene	ND		219,000	1.00	0.386	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,3-Dichloropropane	ND		2,040	1.00	0.292	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	1,4-Dichlorobenzene	ND		7,500	1.00	0.376	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	2,2-Dichloropropane	ND		3,010	1.00	0.390	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	2-Butanone (MEK)	ND		4,380,000	5.00	0.841	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	2-Chloroethyl vinyl ether	ND		186	5.00	0.623	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	2-Chlorotoluene	ND		146,000	1.00	0.395	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	2-Hexanone	ND		438,000	5.00	0.266	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	4-Chlorotoluene	ND		146,000	1.00	0.344	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	4-Methyl-2-pentanone (MIBK)	ND		584,000	5.00	0.416	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Acetone	0.978	J	6,570,000	5.00	0.819	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Acrolein	ND		3,650	10.0	1.29	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Acrylonitrile	ND		379	10.0	1.49	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Benzene	1.53		500	1.00	0.392	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Bromobenzene	ND		146,000	1.00	0.394	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Bromodichloromethane	ND		3,300	1.00	0.369	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Bromoform	ND		25,900	2.00	0.269	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Bromomethane	ND		10,200	2.00	0.723	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Carbon disulfide	1.14		730,000	1.00	0.383	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Carbon tetrachloride	ND		500	1.00	0.407	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Chlorobenzene	ND		10,000	1.00	0.333	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Chloroethane	ND		2,920,000	2.00	0.449	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Chloroform	ND		73,000	1.00	0.349	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Chloromethane	ND		15,700	2.00	0.482	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	cis-1,2-Dichloroethene	114		7,000	2.00	0.735	µg/L	8260B	2.00	1/14/2009	1/26/2009

GULFCO GROUND WATER SPLIT SAMPLE DATA - 13 JANUARY 2009
(LAB SDG ASA0086)

Sample ID	Lab Sample No.	Matrix	Collected	Volatile Organic Analyte	Result	Flag	Preliminary Screening Value[1]	Reporting Limit	Method Detection Limit	Units	Method	Dilution	Received	Analyzed
NEMW32C	1	WATER	1/13/2009	cis-1,3-Dichloropropene	ND		379	1.00	0.307	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Dibromochloromethane	ND		2,430	1.00	0.278	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Dibromomethane	ND		27,300	1.00	0.407	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Dichlorodifluoromethane	ND		1,460,000	2.00	0.518	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Ethylbenzene	ND		70,000	1.00	0.416	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Hexachlorobutadiene	ND		1,460	1.00	0.567	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Iodomethane	ND		NA	1.00	0.59	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Isopropylbenzene	ND		730,000	1.00	0.418	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Methyl acetate	ND		7,300,000	5.00	0.962	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Methyl tert-butyl ether (MTBE)	ND		73,000	1.00	0.336	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Methylcyclohexane	ND		36,500,000	5.00	0.723	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Methylene chloride	ND		500	1.00	0.422	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	n-Butanol	ND		NA	250	13.0	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	n-Butylbenzene	ND		292,000	1.00	0.878	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	n-Propylbenzene	ND		292,000	1.00	0.441	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	p-Isopropyltoluene	ND		NA	1.00	0.633	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	sec-Butylbenzene	ND		292,000	1.00	0.609	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Styrene	ND		10,000	1.00	0.310	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	tert-Butylbenzene	ND		292,000	1.00	0.450	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Tetrachloroethene	0.519	J	500	1.00	0.398	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Toluene	0.771	J	100,000	1.00	0.391	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	trans-1,2-Dichloroethene	0.531	J	10,000	1.00	0.372	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	trans-1,3-Dichloropropene	ND		2,040	1.00	0.209	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	trans-1,4-Dichloro-2-butene	ND		NA	5.00	0.357	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Trichloroethene	36.0		500	1.00	0.449	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Trichlorofluoromethane	ND		2,190,000	2.00	0.474	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Vinyl acetate	ND		7,300,000	2.00	0.293	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Vinyl chloride	ND		200	2.00	0.402	µg/L	8260B	1.00	1/14/2009	1/26/2009
NEMW32C	1	WATER	1/13/2009	Xylenes (total)	ND		1,000,000	3.00	1.20	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1,1,2-Tetrachloroethane	ND		7,860	1.00	0.332	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1,1-Trichloroethane	ND		20,000	1.00	0.360	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1,2,2-Tetrachloroethane	ND		1,020	1.00	0.310	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		NA	1.00	0.382	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1,2-Trichloroethane	ND		500	1.00	0.352	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1-Dichloroethane	ND		730,000	1.00	0.374	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1-Dichloroethene	ND		700	1.00	0.427	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,1-Dichloropropene	ND		2,040	1.00	0.348	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2,3-Trichloropropane	ND		29.2	1.00	0.304	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2,4-Trichlorobenzene	ND		7,000	1.00	0.484	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2,4-Trimethylbenzene	ND		365,000	1.00	0.598	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2-Dibromo-3-chloropropane (DBCP)	ND		20	5.00	0.342	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2-Dibromoethane (EDB)	ND		5	1.00	0.298	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2-Dichlorobenzene	ND		60,000	1.00	0.434	µg/L	8260B	1.00	1/14/2009	1/26/2009

GULFCO GROUND WATER SPLIT SAMPLE DATA - 13 JANUARY 2009
(LAB SDG ASA0086)

Sample ID	Lab Sample No.	Matrix	Collected	Volatile Organic Analyte	Result	Flag	Preliminary Screening Value[1]	Reporting Limit	Method Detection Limit	Units	Method	Dilution	Received	Analyzed
OCPT5	2	WATER	1/13/2009	1,2-Dichloroethane	ND		500	1.00	0.392	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2-Dichloroethene (total)	ND		NA	2.00	0.730	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,2-Dichloropropane	ND		500	1.00	0.373	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,3,5-Trimethylbenzene	ND		365,000	1.00	0.488	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,3-Dichlorobenzene	ND		219,000	1.00	0.386	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,3-Dichloropropane	ND		2,040	1.00	0.292	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	1,4-Dichlorobenzene	ND		7,500	1.00	0.376	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	2,2-Dichloropropane	ND		3,010	1.00	0.390	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	2-Butanone (MEK)	ND		4,380,000	5.00	0.841	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	2-Chloroethyl vinyl ether	ND		186	5.00	0.623	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	2-Chlorotoluene	ND		146,000	1.00	0.395	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	2-Hexanone	ND		438,000	5.00	0.266	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	4-Chlorotoluene	ND		146,000	1.00	0.344	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	4-Methyl-2-pentanone (MIBK)	ND		584,000	5.00	0.416	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Acetone	2.31	J	6,570,000	5.00	0.819	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Acrolein	ND		3,650	10.0	1.29	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Acrylonitrile	ND		379	10.0	1.49	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Benzene	ND		500	1.00	0.392	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Bromobenzene	ND		146,000	1.00	0.394	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Bromodichloromethane	ND		3,300	1.00	0.369	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Bromoform	ND		25,900	2.00	0.269	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Bromomethane	ND		10,200	2.00	0.723	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Carbon disulfide	0.614	J	730,000	1.00	0.383	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Carbon tetrachloride	ND		500	1.00	0.407	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Chlorobenzene	ND		10,000	1.00	0.333	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Chloroethane	ND		2,920,000	2.00	0.449	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Chloroform	ND		73,000	1.00	0.349	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Chloromethane	ND		15,700	2.00	0.482	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	cis-1,2-Dichloroethene	ND		7,000	1.00	0.367	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	cis-1,3-Dichloropropene	ND		379	1.00	0.307	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Dibromochloromethane	ND		2,430	1.00	0.278	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Dibromomethane	ND		27,300	1.00	0.407	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Dichlorodifluoromethane	ND		1,460,000	2.00	0.518	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Ethylbenzene	ND		70,000	1.00	0.416	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Hexachlorobutadiene	ND		1,460	1.00	0.567	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Iodomethane	ND		NA	1.00	0.590	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Isopropylbenzene	ND		730,000	1.00	0.418	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Methyl acetate	ND		7,300,000	5.00	0.962	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Methyl tert-butyl ether (MTBE)	ND		73,000	1.00	0.336	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Methylcyclohexane	ND		36,500,000	5.00	0.723	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Methylene chloride	ND		500	1.00	0.422	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	n-Butanol	ND		NA	250	13.0	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	n-Butylbenzene	ND		292,000	1.00	0.878	µg/L	8260B	1.00	1/14/2009	1/26/2009

GULFCO GROUND WATER SPLIT SAMPLE DATA - 13 JANUARY 2009
(LAB SDG ASA0086)

Sample ID	Lab Sample No.	Matrix	Collected	Volatile Organic Analyte	Result	Flag	Preliminary Screening Value[1]	Reporting Limit	Method Detection Limit	Units	Method	Dilution	Received	Analyzed
OCPT5	2	WATER	1/13/2009	n-Propylbenzene	ND		292,000	1.00	0.441	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	p-Isopropyltoluene	ND		NA	1.00	0.633	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	sec-Butylbenzene	ND		292,000	1.00	0.609	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Styrene	ND		10,000	1.00	0.310	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	tert-Butylbenzene	ND		292,000	1.00	0.450	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Tetrachloroethene	ND		500	1.00	0.398	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Toluene	ND		100,000	1.00	0.391	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	trans-1,2-Dichloroethene	ND		10,000	1.00	0.372	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	trans-1,3-Dichloropropene	ND		2,040	1.00	0.209	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	trans-1,4-Dichloro-2-butene	ND		NA	5.00	0.357	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Trichloroethene	ND		500	1.00	0.449	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Trichlorofluoromethane	ND		2,190,000	2.00	0.474	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Vinyl acetate	ND		7,300,000	2.00	0.293	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Vinyl chloride	ND		200	2.00	0.402	µg/L	8260B	1.00	1/14/2009	1/26/2009
OCPT5	2	WATER	1/13/2009	Xylenes (total)	ND		1,000,000	3.00	1.20	µg/L	8260B	1.00	1/14/2009	1/26/2009

Notes:

7,300	Indicates an exceedance of the preliminary screening value for Class 3 ground water
1	Preliminary screening values for Class 3 ground water from Table 18 (human health risk values) of the Remedial Investigation/Feasibility Study Work Plan, dated 16 May 2005 (Pastor, Behling, Wheeler, LLC)
J	Estimated value; result is less than the reporting limit.
ND	Not detected
NA	Not applicable
µg/L	Microgram per liter

Enclosure 2

Data Validation Report

DATA VALIDATION REPORT

Site Name:	Gulfco Marine Maintenance Site Freeport, Brazoria County, Texas
Laboratory:	Test America, Inc. – Austin, TX
QA Reviewer:	Kim Wallace-Wymore, EA Engineering, Science, and Technology, Inc. (EA), Dallas, TX
SDG No.:	ASA0086
Sample Nos.:	NEMW32C, OCPT5, TRIP BLANK
Matrix:	Ground Water
QC Criteria Reviewed:	Review criteria listed in Section 2.0 was performed for all above samples.
Report Date:	3 February 2009

1.0 INTRODUCTION

Data were validated according to U.S. Environmental Protection Agency (EPA) documents "National Functional Guidelines for Organic Data Review" (EPA 2008). In addition, the site-specific Sampling and Analysis Plan (EA 2006) and other specific criteria in associated EPA methods were used. Section 2.0 of this data validation report lists the criteria reviewed based on EPA documents. Section 3.0 is the glossary of qualifiers used in validating the data, and Section 4.0 provides an assessment of data by methodology.

Table 1 identifies the field sample numbers, collection dates, analyses performed, and quality control (QC) samples associated with this sample delivery group (SDG). The results of these analyses are discussed in Section 4.0, Data Assessment.

TABLE 1
SAMPLE CROSS-REFERENCE TABLE
SAMPLE DELIVERY GROUP ASA0086

Field Sample ID	Lab Sample ID	Matrix	Date Collected	Analyses Performed
NEMW32C	ASA0086-01	Water	13 Jan 2009	VOC 8260B
OCPT5	ASA0086-02	Water	13 Jan 2009	VOC 8260B
TRIP BLANK	ASA0086-03	Water	13 Jan 2009	VOC 8260B

Note:
VOC: volatile organic compounds

2.0 DATA VALIDATION REQUIREMENTS

The items listed below were evaluated for the validation review.

- Chain-of-custody/sample receipt
- Holding times
- Instrument performance
- Initial and continuing calibrations
- Blanks
- Surrogate recovery
- Spikes and laboratory duplicates
- Field QC samples
- Internal standards
- Compound quantitation and reporting limits
- Overall data assessment and data qualification.

3.0 GLOSSARY OF DATA QUALIFIERS

The following definitions provide a brief explanation for data qualifiers used during the data review process. The definitions are consistent with "National Functional Guidelines for Organic Data Review" (EPA 2008).

No Qualifier	Indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
UJ	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
R	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

4.0 DATA ASSESSMENT

Analytical results were reviewed for the criteria listed in Section 2.0. A discussion of the data (by method) is presented below.

VOC 8260B

All water samples were prepared and analyzed according to the procedures set forth and specified in EPA Method 8260B for volatile organic compounds.

I. SAMPLE CONDITION/HOLDING TIMES

The sample containers were received intact at the laboratory under chain-of-custody documentation. No qualification of sample data is necessary on the basis of sample receipt or chain-of-custody.

The samples were analyzed within the 14-day holding time specified by the method.

II. GAS CHROMATOGRAPH/MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

The analysis of the instrument performance check solution was performed at the beginning of each 12-hour period during which samples and standards were analyzed. The instrument performance check, bromofluorobenzene (BFB), met the ion abundance criteria for this SDG.

III. CALIBRATIONS

The average relative response factors met the method criteria for the system performance check compounds during the initial and continuing calibrations.

The percent relative standard deviation for the initial calibration was within the control limit of less than 15 percent for the target compounds except for iodomethane, n-butanol, and 1,2-dibromo-3-chloropropane. These compounds were not detected in the project samples, and therefore no data were qualified.

The continuing calibrations were analyzed at the proper frequency. The percent difference for the target compounds was less than the QC limit of 25 percent except for n-butanol, 1,2-dibromo-3-chloropropane, and acrolein. The following data were qualified:

- n-Butanol was qualified (UJ) in samples NEMW32C and OCPT5.
- 1,2-Dibromo-3-chloropropane was qualified (UJ) in samples NEMW32C and OCPT5.
- Acrolein was qualified (UJ) in samples NEMW32C and OCPT5.

V. BLANKS

No target compounds were detected in the method blanks. Method blanks were analyzed at the required frequency of every 12 hours, beginning with the BFB injection for each batch analyzed.

Acetone was detected in the trip blank at a concentration of 1.05 µg/L. Acetone was also detected in the project samples at a similar concentration. The following data were qualified:

- Acetone was qualified (UJ) in samples NEMW32C and OCPT5.

VI. SYSTEM MONITORING COMPOUNDS (SURROGATE RECOVERY)

The surrogates 1,2-dichloroethane-d4, toluene-d8, 4-bromofluorobenzene, and dibromofluoromthane were used as system monitoring compounds in the surrogate recovery analysis. The surrogate recoveries were within QC limits in the project samples, and no qualification was required.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The parent sample for the matrix spike/matrix spike duplicate (MS/MSD) analysis was not specific to this project. Therefore no data were qualified as a result of the MS/MSD recoveries.

VIII. LABORATORY CONTROL SAMPLE

The percent recoveries for laboratory control samples were within laboratory established control limits in this SDG. The relative percent difference for laboratory duplicate and original sample results were within laboratory-established control limits.

IX. FIELD DUPLICATE

No field duplicates were included with this SDG.

X. INTERNAL STANDARD PERFORMANCE

The internal standard areas and retention times for fluorobenzene, chlorobenzene-d5, and 1,4-dichlorobenzene-d4 were within limits for the project samples in this SDG.

XI. QUANTITATION AND REPORTED DETECTION LIMITS

The cis-1,2-dichloroethene concentration in sample NEMW32C exceeded the instrument calibration range in the initial analysis. The sample was re-analyzed for cis-1,2-dichloroethene at a dilution factor of 2. The diluted result was reported by the laboratory.

The laboratory method detection limits for 1,2-dibromo-3-chloropropane and hexachlorobutadiene were greater than the target method detection limits established for the project. However, these compounds are not identified as primary contaminants of concern. Therefore, the data in this SDG are considered useable for comparison to the potentially responsible party sample results.

XII. OVERALL ASSESSMENT OF DATA

Target compounds were qualified (UJ) by the data reviewer due to elevated percent differences in the continuing calibration as listed in Section III of this report. Acetone results were qualified (UJ) by the data reviewer due to detected acetone in the associated trip blank. Qualified data are presented in Table 2. None of the results were rejected. The data are acceptable with the qualifications noted and appended to the data by the reviewer and/or the laboratory. These qualifiers modify the usefulness of the individual values to which they are assigned.

TABLE 2
QUALIFIED TARGET ANALYTE SUMMARY
VOLATILE ORGANIC COMPOUNDS

Project: **Gulfco Marine Maintenance Site** Matrix: **Ground water**
SDG No.: **ASA0086** Units: **µg/L (micrograms per liter)**

Field ID	Lab ID	Analyte	Lab Reported Concentration		QA Reported Concentration		Quality Assurance Decision	Footnote
NEMW32C	ASA0086-001	n-Butanol	<13.0	ND	<13.0	UJ	Qualify	1
NEMW32C	ASA0086-001	1,2-Dibromo-3-chloropropane	<0.342	ND	<0.342	UJ	Qualify	1
NEMW32C	ASA0086-001	Acrolein	<1.29	ND	<1.29	UJ	Qualify	1
NEMW32C	ASA0086-001	Acetone	0.978	J	0.978	UJ	Qualify	2
OCPT5	ASA0086-002	n-Butanol	<13.0	ND	<13.0	UJ	Qualify	1
OCPT5	ASA0086-002	1,2-Dibromo-3-chloropropane	<0.342	ND	<0.342	UJ	Qualify	1
OCPT5	ASA0086-002	Acrolein	<1.29	ND	<1.29	UJ	Qualify	1
OCPT5	ASA0086-002	Acetone	2.31	J	2.31	UJ	Qualify	2

Notes:
1 - The reported value has been flagged due to elevated percent difference in the continuing calibration.
2 - Acetone was detected in the associated trip blank.
ND - not detected
J - concentrated value
UJ - elevated percent difference in the continuing calibration
QA - quality assurance
µg/L - micrograms per liter

REFERENCES

EA Engineering, Science, and Technology, Inc. (EA). 2006. "Sampling and Analysis Plan for Remedial Investigation/Feasibility Study Oversight, Gulfco Marine Maintenance Site Freeport, Brazoria County, Texas." September.

U.S. Environmental Protection Agency (EPA). 2008. "National Functional Guidelines for Organic Data Review." June.

Enclosure 3

Analytical Data Package

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RECEIVED

FEB 06 2009

EA ENG. DALLAS

Analytical Report

Work Order: ASA0086

SDG Number:

Work Order Description: Gulfco Marine EP-W-06-004

For:

Luis Vega

EA Engineering Science & Technology

405 South Highway 121, Building C, Suite 100

Lewisville, TX 75067

Neal Salcher

Project Manager

Neal.Salcher@testamericainc.com

Tuesday, February 3, 2009

The test results in this report meet all NELAP requirments for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

EA Engineering Science & Technology 405 South Highway 121, Building C, Suite 100 Lewisville, TX 75067	Work Order: Project: Project Number:	ASA0086 Gulfco Marine T/O 0006-RSBD-06JZ	Received: Reported:	01/14/09 02/03/09 11:27

Case Narrative

Gulfco Marine

This report contains results for the received under chain-of-custody by TestAmerica Laboratories, Inc. 1/14/2009 8:30:00 AM.

These samples are associated with your T/O 0006-RSBD-06JZ project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method specified acceptance criteria except where flagged on the result pages or noted in the case narrative.

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.
EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.
EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.
Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.
EPA TO-12: Samples not analyzed in duplicate.
EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

If you should have any questions, please feel free to contact me at neal.salcher@testamericainc.com or (512) 310-5215.

There are pertinent documents appended to this report, 3 pages, are included and are an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

EA Engineering Science & Technology 405 South Highway 121, Building C, Suite 100 Lewisville, TX 75067	Work Order: Project: Project Number:	ASA0086 Gulfco Marine T/O 0006-RSBD-06JZ	Received: Reported:	01/14/09 02/03/09 11:27

DATA QUALIFIERS AND DEFINITIONS

J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M13	The sample spiked had a pH of less than 2. 2-Chloroethylvinylether degrades under acidic conditions.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-01 (NEMW32C - Water)						**Sampled: 01/13/09 09:15**		**Recvd: 01/14/09 08:30**		
Volatile Organic Compounds by SW846 8260B										
1,1,1-Trichloroethane	0.761	J	1.00	0.360	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1-Dichloroethane	22.7		1.00	0.374	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1-Dichloroethene	1.46		1.00	0.427	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2,3-Trichloropropane	5.35		1.00	0.304	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dichloroethane	0.581	J	1.00	0.392	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dichloroethene, Total	114		4.00	1.46	ug/L	2.00	01/26/09 20:17	DY	9A27008	SW846 8260B
Acetone	0.978	J	5.00	0.819	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Benzene	1.53		1.00	0.392	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Carbon disulfide	1.14		1.00	0.383	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
cis-1,2-Dichloroethene	114		2.00	0.735	ug/L	2.00	01/26/09 20:17	DY	9A27008	SW846 8260B
Tetrachloroethene	0.519	J	1.00	0.398	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Toluene	0.771	J	1.00	0.391	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
trans-1,2-Dichloroethene	0.531	J	1.00	0.372	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Trichloroethene	36.0		1.00	0.449	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Sample ID: ASA0086-02 (OCPT5 - Water)						**Sampled: 01/13/09 10:00**		**Recvd: 01/14/09 08:30**		
Volatile Organic Compounds by SW846 8260B										
Acetone	2.31	J	5.00	0.819	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Carbon disulfide	0.614	J	1.00	0.383	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Sample ID: ASA0086-03 (TRIP BLANK - Water)						**Sampled: 01/13/09 00:01**		**Recvd: 01/14/09 08:30**		
Volatile Organic Compounds by SW846 8260B										
Acetone	1.05	J	5.00	0.819	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Sample Summary

SAMPLE IDENTIFICATION	LAB NUMBER	Client Matrix	Date/Time Sampled	Date/Time Received
NEMW32C	ASA0086-01	Water	01/13/09 09:15	01/14/09 08:30
OCPT5	ASA0086-02	Water	01/13/09 10:00	01/14/09 08:30
TRIP BLANK	ASA0086-03	Water	01/13/09 00:01	01/14/09 08:30

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-01 (NEMW32C - Water)						**Sampled: 01/13/09 09:15**			**Recvd: 01/14/09 08:30**	
Volatile Organic Compounds by SW846 8260B										
1,1,1,2-Tetrachloroethane	ND		1.00	0.332	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1,1-Trichloroethane	**0.761**	J	1.00	0.360	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1,2,2-Tetrachloroethane	ND		1.00	0.310	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1,2-Trichloroethane	ND		1.00	0.352	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1,2-Trichlorotrifluoroethane	ND		1.00	0.382	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1-Dichloroethane	**22.7**		1.00	0.374	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1-Dichloroethene	**1.46**		1.00	0.427	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,1-Dichloropropene	ND		1.00	0.348	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2,3-Trichloropropane	**5.35**		1.00	0.304	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2,4-Trichlorobenzene	ND		1.00	0.484	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2,4-Trimethylbenzene	ND		1.00	0.598	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dibromo-3-chloropropane	ND		5.00	0.342	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dibromoethane (EDB)	ND		1.00	0.298	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dichlorobenzene	ND		1.00	0.434	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dichloroethane	**0.581**	J	1.00	0.392	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,2-Dichloroethene, Total	**114**		4.00	1.46	ug/L	2.00	01/26/09 20:17	DY	9A27008	SW846 8260B
1,2-Dichloropropane	ND		1.00	0.373	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,3,5-Trimethylbenzene	ND		1.00	0.488	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,3-Dichlorobenzene	ND		1.00	0.386	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,3-Dichloropropane	ND		1.00	0.292	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
1,4-Dichlorobenzene	ND		1.00	0.376	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
2,2-Dichloropropane	ND		1.00	0.390	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
2-Butanone (MEK)	ND		5.00	0.841	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
2-Chloroethyl vinyl ether	ND		5.00	0.623	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
2-Chlorotoluene	ND		1.00	0.395	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
2-Hexanone	ND		5.00	0.266	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
4-Chlorotoluene	ND		1.00	0.344	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
4-Isopropyltoluene	ND		1.00	0.633	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.416	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Acetone	**0.978**	J	5.00	0.819	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Acrolein	ND		10.0	1.29	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Acrylonitrile	ND		10.0	1.49	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Benzene	**1.53**		1.00	0.392	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Bromobenzene	ND		1.00	0.394	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Bromodichloromethane	ND		1.00	0.369	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Bromoform	ND		2.00	0.269	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Bromomethane	ND		2.00	0.723	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Carbon disulfide	**1.14**		1.00	0.383	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Carbon tetrachloride	ND		1.00	0.407	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Chlorobenzene	ND		1.00	0.333	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Chlorodibromomethane	ND		1.00	0.278	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Chloroethane	ND		2.00	0.449	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Chloroform	ND		1.00	0.349	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Chloromethane	ND		2.00	0.482	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
cis-1,2-Dichloroethene	**114**		2.00	0.735	ug/L	2.00	01/26/09 20:17	DY	9A27008	SW846 8260B
cis-1,3-Dichloropropene	ND		1.00	0.307	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Dibromomethane	ND		1.00	0.407	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Dichlorodifluoromethane	ND		2.00	0.518	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Ethylbenzene	ND		1.00	0.416	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Hexachlorobutadiene	ND		1.00	0.567	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Iodomethane	ND		1.00	0.590	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-01 (NEMW32C - Water) - cont.						**Sampled: 01/13/09 09:15**		**Recvd: 01/14/09 08:30**		
Volatile Organic Compounds by SW846 8260B - cont.										
Isopropylbenzene	ND		1.00	0.418	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Methyl Acetate	ND		5.00	0.962	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Methyl tert-Butyl Ether	ND		1.00	0.336	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Methylcyclohexane	ND		5.00	0.723	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Methylene chloride	ND		1.00	0.422	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
n-Butanol	ND		250	13.0	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
n-Butylbenzene	ND		1.00	0.878	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
n-Propylbenzene	ND		1.00	0.441	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
sec-Butylbenzene	ND		1.00	0.609	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Styrene	ND		1.00	0.310	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
tert-Butylbenzene	ND		1.00	0.450	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Tetrachloroethene	**0.519**	J	1.00	0.398	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Toluene	**0.771**	J	1.00	0.391	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
trans-1,2-Dichloroethene	**0.531**	J	1.00	0.372	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
trans-1,3-Dichloropropene	ND		1.00	0.209	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
trans-1,4-Dichloro-2-butene	ND		5.00	0.357	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Trichloroethene	**36.0**		1.00	0.449	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Trichlorofluoromethane	ND		2.00	0.474	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Vinyl acetate	ND		2.00	0.293	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Vinyl chloride	ND		2.00	0.402	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Xylenes, total	ND		3.00	1.20	ug/L	1.00	01/26/09 11:32	DY	9A27008	SW846 8260B
Surr: 1,2-Dichloroethane-d4 (69-133%)	*101 %*						01/26/09 11:32	DY	9A27008	SW846 8260B
Surr: 1,2-Dichloroethane-d4 (69-133%)	*106 %*						01/26/09 20:17	DY	9A27008	SW846 8260B
Surr: 4-Bromofluorobenzene (66-124%)	*109 %*						01/26/09 11:32	DY	9A27008	SW846 8260B
Surr: 4-Bromofluorobenzene (66-124%)	*108 %*						01/26/09 20:17	DY	9A27008	SW846 8260B
Surr: Dibromofluoromethane (81-127%)	*100 %*						01/26/09 11:32	DY	9A27008	SW846 8260B
Surr: Dibromofluoromethane (81-127%)	*101 %*						01/26/09 20:17	DY	9A27008	SW846 8260B
Surr: Toluene-d8 (87-121%)	*109 %*						01/26/09 11:32	DY	9A27008	SW846 8260B
Surr: Toluene-d8 (87-121%)	*111 %*						01/26/09 20:17	DY	9A27008	SW846 8260B

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-02 (OCPT5 - Water)						**Sampled: 01/13/09 10:00**			**Recvd: 01/14/09 08:30**	
Volatile Organic Compounds by SW846 8260B										
1,1,1,2-Tetrachloroethane	ND		1.00	0.332	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1,1-Trichloroethane	ND		1.00	0.360	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1,2.2-Tetrachloroethane	ND		1.00	0.310	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1,2-Trichloroethane	ND		1.00	0.352	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1,2-Trichlorotrifluoroethane	ND		1.00	0.382	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1-Dichloroethane	ND		1.00	0.374	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1-Dichloroethene	ND		1.00	0.427	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,1-Dichloropropene	ND		1.00	0.348	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2,3-Trichloropropane	ND		1.00	0.304	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2,4-Trichlorobenzene	ND		1.00	0.484	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2,4-Trimethylbenzene	ND		1.00	0.598	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2-Dibromo-3-chloropropane	ND		5.00	0.342	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2-Dibromoethane (EDB)	ND		1.00	0.298	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2-Dichlorobenzene	ND		1.00	0.434	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2-Dichloroethane	ND		1.00	0.392	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2-Dichloroethene, Total	ND		2.00	0.730	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,2-Dichloropropane	ND		1.00	0.373	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,3,5-Trimethylbenzene	ND		1.00	0.488	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,3-Dichlorobenzene	ND		1.00	0.386	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,3-Dichloropropane	ND		1.00	0.292	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
1,4-Dichlorobenzene	ND		1.00	0.376	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
2,2-Dichloropropane	ND		1.00	0.390	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
2-Butanone (MEK)	ND		5.00	0.841	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
2-Chloroethyl vinyl ether	ND		5.00	0.623	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
2-Chlorotoluene	ND		1.00	0.395	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
2-Hexanone	ND		5.00	0.266	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
4-Chlorotoluene	ND		1.00	0.344	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
4-Isopropyltoluene	ND		1.00	0.633	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.416	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Acetone	**2.31**	J	5.00	0.819	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Acrolein	ND		10.0	1.29	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Acrylonitrile	ND		10.0	1.49	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Benzene	ND		1.00	0.392	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Bromobenzene	ND		1.00	0.394	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Bromodichloromethane	ND		1.00	0.369	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Bromoform	ND		2.00	0.269	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Bromomethane	ND		2.00	0.723	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Carbon disulfide	**0.614**	J	1.00	0.383	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Carbon tetrachloride	ND		1.00	0.407	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Chlorobenzene	ND		1.00	0.333	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Chlorodibromomethane	ND		1.00	0.278	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Chloroethane	ND		2.00	0.449	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Chloroform	ND		1.00	0.349	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Chloromethane	ND		2.00	0.482	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
cis-1,2-Dichloroethene	ND		1.00	0.367	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
cis-1,3-Dichloropropene	ND		1.00	0.307	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Dibromomethane	ND		1.00	0.407	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Dichlorodifluoromethane	ND		2.00	0.518	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Ethylbenzene	ND		1.00	0.416	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Hexachlorobutadiene	ND		1.00	0.567	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Iodomethane	ND		1.00	0.590	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-02 (OCPT5 - Water) - cont.						**Sampled: 01/13/09 10:00**			**Recvd: 01/14/09 08:30**	
Volatile Organic Compounds by SW846 8260B - cont.										
Isopropylbenzene	ND		1.00	0.418	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Methyl Acetate	ND		5.00	0.962	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Methyl tert-Butyl Ether	ND		1.00	0.336	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Methylcyclohexane	ND		5.00	0.723	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Methylene chloride	ND		1.00	0.422	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
n-Butanol	ND		250	13.0	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
n-Butylbenzene	ND		1.00	0.878	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
n-Propylbenzene	ND		1.00	0.441	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
sec-Butylbenzene	ND		1.00	0.609	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Styrene	ND		1.00	0.310	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
tert-Butylbenzene	ND		1.00	0.450	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Tetrachloroethene	ND		1.00	0.398	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Toluene	ND		1.00	0.391	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
trans-1,2-Dichloroethene	ND		1.00	0.372	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
trans-1,3-Dichloropropene	ND		1.00	0.209	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
trans-1,4-Dichloro-2-butene	ND		5.00	0.357	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Trichloroethene	ND		1.00	0.449	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Trichlorofluoromethane	ND		2.00	0.474	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Vinyl acetate	ND		2.00	0.293	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Vinyl chloride	ND		2.00	0.402	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Xylenes, total	ND		3.00	1.20	ug/L	1.00	01/26/09 11:59	DY	9A27008	SW846 8260B
Surr: 1,2-Dichloroethane-d4 (69-133%)	*103 %*						01/26/09 11:59	DY	9A27008	SW846 8260B
Surr: 4-Bromofluorobenzene (66-124%)	*107 %*						01/26/09 11:59	DY	9A27008	SW846 8260B
Surr: Dibromofluoromethane (81-127%)	*101 %*						01/26/09 11:59	DY	9A27008	SW846 8260B
Surr: Toluene-d8 (87-121%)	*110 %*						01/26/09 11:59	DY	9A27008	SW846 8260B
Sample ID: ASA0086-03 (TRIP BLANK - Water)						**Sampled: 01/13/09 00:01**			**Recvd: 01/14/09 08:30**	
Volatile Organic Compounds by SW846 8260B										
1,1,1,2-Tetrachloroethane	ND		1.00	0.332	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1,1-Trichloroethane	ND		1.00	0.360	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1,2,2-Tetrachloroethane	ND		1.00	0.310	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1,2-Trichloroethane	ND		1.00	0.352	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1,2-Trichlorotrifluoroethane	ND		1.00	0.382	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1-Dichloroethane	ND		1.00	0.374	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1-Dichloroethene	ND		1.00	0.427	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,1-Dichloropropene	ND		1.00	0.348	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2,3-Trichloropropane	ND		1.00	0.304	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2,4-Trichlorobenzene	ND		1.00	0.484	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2,4-Trimethylbenzene	ND		1.00	0.598	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2-Dibromo-3-chloropropane	ND		5.00	0.342	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2-Dibromoethane (EDB)	ND		1.00	0.298	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2-Dichlorobenzene	ND		1.00	0.434	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2-Dichloroethane	ND		1.00	0.392	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2-Dichloroethene, Total	ND		2.00	0.730	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,2-Dichloropropane	ND		1.00	0.373	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,3,5-Trimethylbenzene	ND		1.00	0.488	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,3-Dichlorobenzene	ND		1.00	0.386	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,3-Dichloropropane	ND		1.00	0.292	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
1,4-Dichlorobenzene	ND		1.00	0.376	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
2,2-Dichloropropane	ND		1.00	0.390	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
2-Butanone (MEK)	ND		5.00	0.841	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-03 (TRIP BLANK - Water) - cont.						**Sampled: 01/13/09 00:01**			**Recvd: 01/14/09 08:30**	
Volatile Organic Compounds by SW846 8260B - cont.										
2-Chloroethyl vinyl ether	ND		5.00	0.623	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
2-Chlorotoluene	ND		1.00	0.395	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
2-Hexanone	ND		5.00	0.266	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
4-Chlorotoluene	ND		1.00	0.344	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
4-Isopropyltoluene	ND		1.00	0.633	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
4-Methyl-2-pentanone (MIBK)	ND		5.00	0.416	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Acetone	**1.05**	J	5.00	0.819	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Acrolein	ND		10.0	1.29	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Acrylonitrile	ND		10.0	1.49	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Benzene	ND		1.00	0.392	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Bromobenzene	ND		1.00	0.394	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Bromodichloromethane	ND		1.00	0.369	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Bromoform	ND		2.00	0.269	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Bromomethane	ND		2.00	0.723	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Carbon disulfide	ND		1.00	0.383	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Carbon tetrachloride	ND		1.00	0.407	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Chlorobenzene	ND		1.00	0.333	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Chlorodibromomethane	ND		1.00	0.278	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Chloroethane	ND		2.00	0.449	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Chloroform	ND		1.00	0.349	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Chloromethane	ND		2.00	0.482	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
cis-1,2-Dichloroethene	ND		1.00	0.367	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
cis-1,3-Dichloropropene	ND		1.00	0.307	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Dibromomethane	ND		1.00	0.407	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Dichlorodifluoromethane	ND		2.00	0.518	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Ethylbenzene	ND		1.00	0.416	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Hexachlorobutadiene	ND		1.00	0.567	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Iodomethane	ND		1.00	0.590	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Isopropylbenzene	ND		1.00	0.418	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Methyl Acetate	ND		5.00	0.962	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Methyl tert-Butyl Ether	ND		1.00	0.336	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Methylcyclohexane	ND		5.00	0.723	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Methylene chloride	ND		1.00	0.422	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
n-Butanol	ND		250	13.0	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
n-Butylbenzene	ND		1.00	0.878	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
n-Propylbenzene	ND		1.00	0.441	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
sec-Butylbenzene	ND		1.00	0.609	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Styrene	ND		1.00	0.310	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
tert-Butylbenzene	ND		1.00	0.450	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Tetrachloroethene	ND		1.00	0.398	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Toluene	ND		1.00	0.391	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
trans-1,2-Dichloroethene	ND		1.00	0.372	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
trans-1,3-Dichloropropene	ND		1.00	0.209	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
trans-1,4-Dichloro-2-butene	ND		5.00	0.357	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Trichloroethene	ND		1.00	0.449	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Trichlorofluoromethane	ND		2.00	0.474	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Vinyl acetate	ND		2.00	0.293	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Vinyl chloride	ND		2.00	0.402	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Xylenes, total	ND		3.00	1.20	ug/L	1.00	01/26/09 12:26	DY	9A27008	SW846 8260B
Surr: 1,2-Dichloroethane-d4 (69-133%)	*98 %*						01/26/09 12:26	DY	9A27008	SW846 8260B
Surr: 4-Bromofluorobenzene (66-124%)	*105 %*						01/26/09 12:26	DY	9A27008	SW846 8260B

EA Engineering Science & Technology
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Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: ASA0086-03 (TRIP BLANK - Water) - cont.						**Sampled: 01/13/09 00:01**			**Recvd: 01/14/09 08:30**	
Volatile Organic Compounds by SW846 8260B - cont.										
Surr: Dibromofluoromethane (81-127%)	*98 %*						01/26/09 12:26	DY	9A27008	SW846 8260B
Surr: Toluene-d8 (87-121%)	*108 %*						01/26/09 12:26	DY	9A27008	SW846 8260B

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Work Order: ASA0086
Project: Gulfco Marine
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Received: 01/14/09
Reported: 02/03/09 11:27

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by SW846 8260B													
1,1,1,2-Tetrachloroethane	9A27008		1.00	0.332	ug/L	ND							
1,1,1-Trichloroethane	9A27008		1.00	0.360	ug/L	ND							
1,1,2,2-Tetrachloroethane	9A27008		1.00	0.310	ug/L	ND							
1,1,2-Trichloroethane	9A27008		1.00	0.352	ug/L	ND							
1,1,2-Trichlorotrifluoroethane	9A27008		1.00	0.382	ug/L	ND							
1,1-Dichloroethane	9A27008		1.00	0.374	ug/L	ND							
1,1-Dichloroethene	9A27008		1.00	0.427	ug/L	ND							
1,1-Dichloropropene	9A27008		1.00	0.348	ug/L	ND							
1,2,3-Trichloropropane	9A27008		1.00	0.304	ug/L	ND							
1,2,4-Trichlorobenzene	9A27008		1.00	0.484	ug/L	ND							
1,2,4-Trimethylbenzene	9A27008		1.00	0.598	ug/L	ND							
1,2-Dibromo-3-chloropropane	9A27008		5.00	0.342	ug/L	ND							
1,2-Dibromoethane (EDB)	9A27008		1.00	0.298	ug/L	ND							
1,2-Dichlorobenzene	9A27008		1.00	0.434	ug/L	ND							
1,2-Dichloroethane	9A27008		1.00	0.392	ug/L	ND							
1,2-Dichloroethene, Total	9A27008		2.00	0.730	ug/L	ND							
1,2-Dichloropropane	9A27008		1.00	0.373	ug/L	ND							
1,3,5-Trimethylbenzene	9A27008		1.00	0.488	ug/L	ND							
1,3-Dichlorobenzene	9A27008		1.00	0.386	ug/L	ND							
1,3-Dichloropropane	9A27008		1.00	0.292	ug/L	ND							
1,4-Dichlorobenzene	9A27008		1.00	0.376	ug/L	ND							
2,2-Dichloropropane	9A27008		1.00	0.390	ug/L	ND							
2-Butanone (MEK)	9A27008		5.00	0.841	ug/L	ND							
2-Chloroethyl vinyl ether	9A27008		5.00	0.623	ug/L	ND							
2-Chlorotoluene	9A27008		1.00	0.395	ug/L	ND							
2-Hexanone	9A27008		5.00	0.266	ug/L	ND							
4-Chlorotoluene	9A27008		1.00	0.344	ug/L	ND							
4-Isopropyltoluene	9A27008		1.00	0.633	ug/L	ND							
4-Methyl-2-pentanone (MIBK)	9A27008		5.00	0.416	ug/L	ND							
Acetone	9A27008		5.00	0.819	ug/L	ND							
Acrolein	9A27008		10.0	1.29	ug/L	ND							
Acrylonitrile	9A27008		10.0	1.49	ug/L	ND							
Benzene	9A27008		1.00	0.392	ug/L	ND							
Bromobenzene	9A27008		1.00	0.394	ug/L	ND							
Bromodichloromethane	9A27008		1.00	0.369	ug/L	ND							
Bromoform	9A27008		2.00	0.269	ug/L	ND							
Bromomethane	9A27008		2.00	0.723	ug/L	ND							
Carbon disulfide	9A27008		1.00	0.383	ug/L	ND							
Carbon tetrachloride	9A27008		1.00	0.407	ug/L	ND							
Chlorobenzene	9A27008		1.00	0.333	ug/L	ND							
Chlorodibromomethane	9A27008		1.00	0.278	ug/L	ND							
Chloroethane	9A27008		2.00	0.449	ug/L	ND							
Chloroform	9A27008		1.00	0.349	ug/L	ND							
Chloromethane	9A27008		2.00	0.482	ug/L	ND							
cis-1,2-Dichloroethene	9A27008		1.00	0.367	ug/L	ND							

EA Engineering Science & Technology
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Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by SW846 8260B													
cis-1,3-Dichloropropene	9A27008		1.00	0.307	ug/L	ND							
Dibromomethane	9A27008		1.00	0.407	ug/L	ND							
Dichlorodifluoromethane	9A27008		2.00	0.518	ug/L	ND							
Ethylbenzene	9A27008		1.00	0.416	ug/L	ND							
Hexachlorobutadiene	9A27008		1.00	0.567	ug/L	ND							
Iodomethane	9A27008		1.00	0.590	ug/L	ND							
Isopropylbenzene	9A27008		1.00	0.418	ug/L	ND							
Methyl Acetate	9A27008		5.00	0.962	ug/L	ND							
Methyl tert-Butyl Ether	9A27008		1.00	0.336	ug/L	ND							
Methylcyclohexane	9A27008		5.00	0.723	ug/L	ND							
Methylene chloride	9A27008		1.00	0.422	ug/L	ND							
n-Butanol	9A27008		250	13.0	ug/L	ND							
n-Butylbenzene	9A27008		1.00	0.878	ug/L	ND							
n-Propylbenzene	9A27008		1.00	0.441	ug/L	ND							
sec-Butylbenzene	9A27008		1.00	0.609	ug/L	ND							
Styrene	9A27008		1.00	0.310	ug/L	ND							
tert-Butylbenzene	9A27008		1.00	0.450	ug/L	ND							
Tetrachloroethene	9A27008		1.00	0.398	ug/L	ND							
Toluene	9A27008		1.00	0.391	ug/L	ND							
trans-1,2-Dichloroethene	9A27008		1.00	0.372	ug/L	ND							
trans-1,3-Dichloropropene	9A27008		1.00	0.209	ug/L	ND							
trans-1,4-Dichloro-2-butene	9A27008		5.00	0.357	ug/L	ND							
Trichloroethene	9A27008		1.00	0.449	ug/L	ND							
Trichlorofluoromethane	9A27008		2.00	0.474	ug/L	ND							
Vinyl acetate	9A27008		2.00	0.293	ug/L	ND							
Vinyl chloride	9A27008		2.00	0.402	ug/L	ND							
Xylenes, total	9A27008		3.00	1.20	ug/L	ND							
Surrogate: 1,2-Dichloroethane-d4	*9A27008*				ug/L			*92*		*69-133*			
Surrogate: 4-Bromofluorobenzene	*9A27008*				ug/L			*105*		*66-124*			
Surrogate: Dibromofluoromethane	*9A27008*				ug/L			*94*		*81-127*			
Surrogate: Toluene-d8	*9A27008*				ug/L			*108*		*87-121*			

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by SW846 8260B													
1,1,1,2-Tetrachloroethane	9A27008	20.00	1.00	0.332	ug/L	19.1	18.3	96	91	66-137	4	20	
1,1,1-Trichloroethane	9A27008	20.00	1.00	0.360	ug/L	21.8	20.8	109	104	69-141	5	20	
1,1,2,2-Tetrachloroethane	9A27008	20.00	1.00	0.310	ug/L	17.7	16.8	89	84	61-128	5	20	
1,1,2-Trichloroethane	9A27008	20.00	1.00	0.352	ug/L	16.6	15.9	83	79	67-142	4	20	
1,1,2-Trichlorotrifluoroethane	9A27008	20.00	1.00	0.382	ug/L	22.9	22.0	114	110	58-121	4	20	
1,1-Dichloroethane	9A27008	20.00	1.00	0.374	ug/L	22.0	20.7	110	104	65-134	6	20	
1,1-Dichloroethene	9A27008	20.00	1.00	0.427	ug/L	20.4	19.6	102	98	62-135	4	20	
1,1-Dichloropropene	9A27008	20.00	1.00	0.348	ug/L	23.5	22.5	117	112	64-132	4	20	
1,2,3-Trichloropropane	9A27008	20.00	1.00	0.304	ug/L	15.3	14.4	77	72	68-140	6	20	
1,2,4-Trichlorobenzene	9A27008	20.00	1.00	0.484	ug/L	20.5	19.9	102	99	10-141	3	20	
1,2,4-Trimethylbenzene	9A27008	20.00	1.00	0.598	ug/L	20.1	19.4	100	97	66-138	4	20	
1,2-Dibromo-3-chloropropane	9A27008	20.00	5.00	0.342	ug/L	12.5	11.9	62	59	52-109	5	20	
1,2-Dibromoethane (EDB)	9A27008	20.00	1.00	0.298	ug/L	16.8	16.2	84	81	67-141	4	20	
1,2-Dichlorobenzene	9A27008	20.00	1.00	0.434	ug/L	18.8	17.9	94	89	63-130	5	20	
1,2-Dichloroethane	9A27008	20.00	1.00	0.392	ug/L	21.5	20.4	107	102	66-137	5	20	
1,2-Dichloroethene, Total	9A27008	40.00	2.00	0.730	ug/L	40.9	39.2	102	98	64-133	4	20	
1,2-Dichloropropane	9A27008	20.00	1.00	0.373	ug/L	21.5	20.5	108	102	80-120	5	20	
1,3,5-Trimethylbenzene	9A27008	20.00	1.00	0.488	ug/L	20.2	19.4	101	97	67-140	4	20	
1,3-Dichlorobenzene	9A27008	20.00	1.00	0.386	ug/L	19.2	18.4	96	92	63-131	5	20	
1,3-Dichloropropane	9A27008	20.00	1.00	0.292	ug/L	17.5	16.8	88	84	66-136	4	20	
1,4-Dichlorobenzene	9A27008	20.00	1.00	0.376	ug/L	18.5	17.8	93	89	62-128	4	20	
2,2-Dichloropropane	9A27008	20.00	1.00	0.390	ug/L	21.3	20.2	106	101	23-176	5	20	
2-Butanone (MEK)	9A27008	20.00	5.00	0.841	ug/L	18.0	16.1	90	81	50-150	11	20	
2-Chloroethyl vinyl ether	9A27008	20.02	5.00	0.623	ug/L	18.2	17.2	91	86	10-200	6	20	
2-Chlorotoluene	9A27008	20.00	1.00	0.395	ug/L	20.0	19.6	100	98	63-147	2	20	
2-Hexanone	9A27008	20.00	5.00	0.266	ug/L	17.0	16.2	85	81	50-150	5	20	
4-Chlorotoluene	9A27008	20.00	1.00	0.344	ug/L	20.0	19.3	100	96	70-140	4	20	
4-Isopropyltoluene	9A27008	20.00	1.00	0.633	ug/L	20.5	19.8	102	99	63-131	3	20	
4-Methyl-2-pentanone (MIBK)	9A27008	20.00	5.00	0.416	ug/L	18.4	17.9	92	89	62-128	3	20	
Acetone	9A27008	20.00	5.00	0.819	ug/L	16.0	15.4	80	77	71-194	4	20	
Acrolein	9A27008	100.1	10.0	1.29	ug/L	119	116	119	116	10-200	3	20	
Acrylonitrile	9A27008	100.0	10.0	1.49	ug/L	89.1	86.4	89	86	67-138	3	20	
Benzene	9A27008	20.00	1.00	0.392	ug/L	21.7	20.8	108	104	64-133	4	20	
Bromobenzene	9A27008	20.00	1.00	0.394	ug/L	19.7	18.8	99	94	63-131	5	20	
Bromodichloromethane	9A27008	20.00	1.00	0.369	ug/L	20.2	19.1	101	95	65-135	6	20	
Bromoform	9A27008	20.00	2.00	0.269	ug/L	18.1	17.1	90	85	60-125	6	20	
Bromomethane	9A27008	20.00	2.00	0.723	ug/L	22.5	22.3	112	111	40-187	1	20	
Carbon disulfide	9A27008	20.00	1.00	0.383	ug/L	22.4	21.5	112	107	64-132	4	20	
Carbon tetrachloride	9A27008	20.00	1.00	0.407	ug/L	23.2	21.8	116	109	59-134	6	20	
Chlorobenzene	9A27008	20.00	1.00	0.333	ug/L	19.6	18.8	98	94	63-132	4	20	
Chlorodibromomethane	9A27008	20.00	1.00	0.278	ug/L	17.8	17.0	89	85	65-136	5	20	
Chloroethane	9A27008	20.00	2.00	0.449	ug/L	22.3	21.5	112	107	39-142	4	20	
Chloroform	9A27008	20.00	1.00	0.349	ug/L	20.0	18.9	100	95	80-120	6	20	
Chloromethane	9A27008	20.00	2.00	0.482	ug/L	21.0	21.1	105	106	64-134	1	20	
cis-1,2-Dichloroethene	9A27008	20.00	1.00	0.367	ug/L	19.6	18.9	98	94	67-133	4	20	

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THE LEADER IN ENVIRONMENTAL TESTING

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Spike Level	MRL	MDL	Units	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by SW846 8260B													
cis-1,3-Dichloropropene	9A27008	20.00	1.00	0.307	ug/L	21.2	20.3	106	101	84-124	5	20	
Dibromomethane	9A27008	20.00	1.00	0.407	ug/L	18.9	17.9	94	89	65-137	5	20	
Dichlorodifluoromethane	9A27008	20.00	2.00	0.518	ug/L	20.7	19.7	103	99	16-139	5	20	
Ethylbenzene	9A27008	20.00	1.00	0.416	ug/L	20.4	19.7	102	98	77-116	4	20	
Hexachlorobutadiene	9A27008	20.00	1.00	0.567	ug/L	19.2	18.8	96	94	10-154	2	20	
Iodomethane	9A27008	20.00	1.00	0.590	ug/L	19.1	17.3	95	87	71-147	10	20	
Isopropylbenzene	9A27008	20.00	1.00	0.418	ug/L	22.6	21.7	113	109	63-130	4	20	
Methyl Acetate	9A27008	50.00	5.00	0.962	ug/L	44.3	43.5	89	87	10-150	2	20	
Methyl tert-Butyl Ether	9A27008	20.00	1.00	0.336	ug/L	17.6	17.1	88	85	55-114	3	20	
Methylcyclohexane	9A27008	50.00	5.00	0.723	ug/L	61.3	59.1	123	118	47-141	4	20	
Methylene chloride	9A27008	20.00	1.00	0.422	ug/L	18.3	17.6	91	88	67-139	4	20	
n-Butanol	9A27008	1000	250	13.0	ug/L	458	421	46	42	10-200	8	20	
n-Butylbenzene	9A27008	20.00	1.00	0.878	ug/L	20.3	19.4	102	97	43-134	4	20	
n-Propylbenzene	9A27008	20.00	1.00	0.441	ug/L	20.5	19.5	102	98	60-125	5	20	
sec-Butylbenzene	9A27008	20.00	1.00	0.609	ug/L	21.8	21.0	109	105	63-131	3	20	
Styrene	9A27008	20.00	1.00	0.310	ug/L	21.6	20.4	108	102	58-127	5	20	
tert-Butylbenzene	9A27008	20.00	1.00	0.450	ug/L	21.1	20.1	105	100	68-140	5	20	
Tetrachloroethene	9A27008	20.00	1.00	0.398	ug/L	18.2	17.6	91	88	47-146	4	20	
Toluene	9A27008	20.00	1.00	0.391	ug/L	19.9	19.0	99	95	80-123	5	20	
trans-1,2-Dichloroethene	9A27008	20.00	1.00	0.372	ug/L	21.2	20.3	106	102	63-132	4	20	
trans-1,3-Dichloropropene	9A27008	20.00	1.00	0.209	ug/L	18.8	17.7	94	89	70-145	6	20	
trans-1,4-Dichloro-2-butene	9A27008	20.00	5.00	0.357	ug/L	20.9	19.7	105	98	43-130	6	20	
Trichloroethene	9A27008	20.00	1.00	0.449	ug/L	20.5	19.8	103	99	65-134	4	20	
Trichlorofluoromethane	9A27008	20.00	2.00	0.474	ug/L	23.2	22.2	116	111	44-132	5	20	
Vinyl acetate	9A27008	19.99	2.00	0.293	ug/L	22.4	21.4	112	107	73-150	4	20	
Vinyl chloride	9A27008	20.00	2.00	0.402	ug/L	23.2	22.0	116	110	53-139	5	20	
Xylenes, total	9A27008	60.00	3.00	1.20	ug/L	62.4	59.6	104	99	64-132	5	20	
Surrogate: 1,2-Dichloroethane-d4	*9A27008*				ug/L			*99*	*94*	*69-133*			
Surrogate: 4-Bromofluorobenzene	*9A27008*				ug/L			*103*	*101*	*66-124*			
Surrogate: Dibromofluoromethane	*9A27008*				ug/L			*101*	*98*	*81-127*			
Surrogate: Toluene-d8	*9A27008*				ug/L			*112*	*109*	*87-121*			

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by SW846 8260B														
QC Source Sample: ASA0148-01														
1,1,1,2-Tetrachloroethane	9A27008	ND	20.00	1.00	0.332	ug/L	18.4	19.2	92	96	66-137	4	20	
1,1,1-Trichloroethane	9A27008	ND	20.00	1.00	0.360	ug/L	22.3	22.6	111	113	69-141	2	20	
1,1,2,2-Tetrachloroethane	9A27008	ND	20.00	1.00	0.310	ug/L	16.0	17.4	80	87	61-128	9	20	
1,1,2-Trichloroethane	9A27008	ND	20.00	1.00	0.352	ug/L	15.4	16.5	77	83	67-142	7	20	
1,1,2-Trichlorotrifluoroethane	9A27008	ND	20.00	1.00	0.382	ug/L	24.3	24.5	122	123	58-121	1	20	M7
1,1-Dichloroethane	9A27008	ND	20.00	1.00	0.374	ug/L	21.9	22.2	109	111	65-134	2	20	
1,1-Dichloroethene	9A27008	ND	20.00	1.00	0.427	ug/L	21.6	22.2	108	111	62-135	3	20	
1,1-Dichloropropene	9A27008	ND	20.00	1.00	0.348	ug/L	24.4	24.5	122	123	64-132	1	20	
1,2,3-Trichloropropane	9A27008	ND	20.00	1.00	0.304	ug/L	13.8	14.7	69	73	68-140	6	20	
1,2,4-Trichlorobenzene	9A27008	ND	20.00	1.00	0.484	ug/L	20.3	21.1	101	106	10-141	4	20	
1,2,4-Trimethylbenzene	9A27008	ND	20.00	1.00	0.598	ug/L	20.2	20.0	101	100	66-138	1	20	
1,2-Dibromo-3-chloropropane	9A27008	ND	20.00	5.00	0.342	ug/L	11.5	13.2	58	66	52-109	13	20	
1,2-Dibromoethane (EDB)	9A27008	ND	20.00	1.00	0.298	ug/L	15.8	16.9	79	85	67-141	7	20	
1,2-Dichlorobenzene	9A27008	ND	20.00	1.00	0.434	ug/L	18.1	18.7	90	94	63-130	4	20	
1,2-Dichloroethane	9A27008	ND	20.00	1.00	0.392	ug/L	19.9	21.2	100	106	66-137	6	20	
1,2-Dichloroethene, Total	9A27008	ND	40.00	2.00	0.730	ug/L	41.9	42.7	105	107	64-133	2	20	
1,2-Dichloropropane	9A27008	ND	20.00	1.00	0.373	ug/L	20.8	21.7	104	108	80-120	4	20	
1,3,5-Trimethylbenzene	9A27008	ND	20.00	1.00	0.488	ug/L	20.6	20.2	103	101	67-140	2	20	
1,3-Dichlorobenzene	9A27008	ND	20.00	1.00	0.386	ug/L	19.1	19.5	95	98	63-131	2	20	
1,3-Dichloropropane	9A27008	ND	20.00	1.00	0.292	ug/L	16.2	17.3	81	86	66-136	7	20	
1,4-Dichlorobenzene	9A27008	ND	20.00	1.00	0.376	ug/L	18.2	18.7	91	94	62-128	3	20	
2,2-Dichloropropane	9A27008	ND	20.00	1.00	0.390	ug/L	21.9	22.1	110	111	23-176	1	20	
2-Butanone (MEK)	9A27008	ND	20.00	5.00	0.841	ug/L	15.4	17.9	77	89	50-150	15	20	
2-Chloroethyl vinyl ether	9A27008	ND	20.02	5.00	0.623	ug/L	ND	<0.623			10-200		20	M13
2-Chlorotoluene	9A27008	ND	20.00	1.00	0.395	ug/L	20.5	20.4	103	102	63-147	0	20	
2-Hexanone	9A27008	ND	20.00	5.00	0.266	ug/L	15.0	17.7	75	88	50-150	16	20	
4-Chlorotoluene	9A27008	ND	20.00	1.00	0.344	ug/L	20.3	20.3	101	102	70-140	0	20	
4-Isopropyltoluene	9A27008	ND	20.00	1.00	0.633	ug/L	21.2	20.9	106	105	63-131	1	20	
4-Methyl-2-pentanone (MIBK)	9A27008	ND	20.00	5.00	0.416	ug/L	16.5	19.2	83	96	62-128	15	20	
Acetone	9A27008	0.889	20.00	5.00	0.819	ug/L	15.6	16.8	73	79	71-194	7	20	
Acrolein	9A27008	ND	100.1	10.0	1.29	ug/L	114	127	114	127	10-200	11	20	
Acrylonitrile	9A27008	ND	100.0	10.0	1.49	ug/L	83.4	94.4	83	94	67-138	12	20	
Benzene	9A27008	ND	20.00	1.00	0.392	ug/L	21.7	22.2	109	111	64-133	2	20	
Bromobenzene	9A27008	ND	20.00	1.00	0.394	ug/L	19.0	19.8	95	99	63-131	4	20	
Bromodichloromethane	9A27008	0.494	20.00	1.00	0.369	ug/L	19.9	20.8	97	102	65-135	5	20	
Bromoform	9A27008	0.584	20.00	2.00	0.269	ug/L	17.4	18.5	84	90	60-125	7	20	
Bromomethane	9A27008	ND	20.00	2.00	0.723	ug/L	24.6	26.0	123	130	40-187	6	20	
Carbon disulfide	9A27008	ND	20.00	1.00	0.383	ug/L	24.2	23.9	121	120	64-132	1	20	
Carbon tetrachloride	9A27008	ND	20.00	1.00	0.407	ug/L	23.7	23.8	119	119	59-134	1	20	
Chlorobenzene	9A27008	ND	20.00	1.00	0.333	ug/L	19.4	19.8	97	99	63-132	2	20	
Chlorodibromomethane	9A27008	0.805	20.00	1.00	0.278	ug/L	17.4	18.6	83	89	65-136	7	20	
Chloroethane	9A27008	ND	20.00	2.00	0.449	ug/L	22.9	23.5	114	118	39-142	3	20	
Chloroform	9A27008	0.469	20.00	1.00	0.349	ug/L	20.0	20.6	98	101	80-120	3	20	
Chloromethane	9A27008	ND	20.00	2.00	0.482	ug/L	24.1	24.7	120	123	64-134	2	20	
cis-1,2-Dichloroethene	9A27008	ND	20.00	1.00	0.367	ug/L	19.8	20.4	99	102	67-133	3	20	

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THE LEADER IN ENVIRONMENTAL TESTING

EA Engineering Science & Technology
405 South Highway 121, Building C, Suite 100
Lewisville, TX 75067

Work Order: ASA0086
Project: Gulfco Marine
Project Number: T/O 0006-RSBD-06JZ

Received: 01/14/09
Reported: 02/03/09 11:27

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds by SW846 8260B														
QC Source Sample: ASA0148-01														
cis-1,3-Dichloropropene	9A27008	ND	20.00	1.00	0.307	ug/L	20.2	21.1	101	105	84-124	4	20	
Dibromomethane	9A27008	ND	20.00	1.00	0.407	ug/L	17.7	19.0	89	95	65-137	7	20	
Dichlorodifluoromethane	9A27008	ND	20.00	2.00	0.518	ug/L	21.8	22.3	109	112	16-139	2	20	
Ethylbenzene	9A27008	ND	20.00	1.00	0.416	ug/L	20.5	20.9	102	105	77-116	2	20	
Hexachlorobutadiene	9A27008	ND	20.00	1.00	0.567	ug/L	21.2	20.3	106	101	10-154	4	20	
Iodomethane	9A27008	ND	20.00	1.00	0.590	ug/L	18.3	17.8	91	89	71-147	2	20	
Isopropylbenzene	9A27008	ND	20.00	1.00	0.418	ug/L	22.9	23.1	115	115	63-130	1	20	
Methyl Acetate	9A27008	ND	50.00	5.00	0.962	ug/L	42.7	48.4	85	97	10-150	13	20	
Methyl tert-Butyl Ether	9A27008	ND	20.00	1.00	0.336	ug/L	16.5	18.5	83	92	55-114	11	20	
Methylcyclohexane	9A27008	ND	50.00	5.00	0.723	ug/L	64.9	65.1	130	130	47-141	0	20	
Methylene chloride	9A27008	ND	20.00	1.00	0.422	ug/L	18.0	18.7	90	93	67-139	4	20	
n-Butanol	9A27008	ND	1000	250	13.0	ug/L	375	554	37	55	10-200	39	20	R
n-Butylbenzene	9A27008	ND	20.00	1.00	0.878	ug/L	21.2	20.9	106	104	43-134	2	20	
n-Propylbenzene	9A27008	ND	20.00	1.00	0.441	ug/L	20.6	20.9	103	105	60-125	1	20	
sec-Butylbenzene	9A27008	ND	20.00	1.00	0.609	ug/L	22.7	22.2	114	111	63-131	2	20	
Styrene	9A27008	ND	20.00	1.00	0.310	ug/L	21.1	21.6	105	108	58-127	3	20	
tert-Butylbenzene	9A27008	ND	20.00	1.00	0.450	ug/L	21.2	21.3	106	106	68-140	0	20	
Tetrachloroethene	9A27008	ND	20.00	1.00	0.398	ug/L	19.3	19.3	97	96	47-146	0	20	
Toluene	9A27008	ND	20.00	1.00	0.391	ug/L	19.9	20.1	99	100	80-123	1	20	
trans-1,2-Dichloroethene	9A27008	ND	20.00	1.00	0.372	ug/L	22.1	22.3	110	112	63-132	1	20	
trans-1,3-Dichloropropene	9A27008	ND	20.00	1.00	0.209	ug/L	17.4	18.6	87	93	70-145	7	20	
trans-1,4-Dichloro-2-butene	9A27008	ND	20.00	5.00	0.357	ug/L	18.5	19.1	93	95	43-130	3	20	
Trichloroethene	9A27008	ND	20.00	1.00	0.449	ug/L	21.1	21.5	106	107	65-134	2	20	
Trichlorofluoromethane	9A27008	ND	20.00	2.00	0.474	ug/L	24.1	24.3	120	121	44-132	1	20	
Vinyl acetate	9A27008	ND	19.99	2.00	0.293	ug/L	20.7	22.6	104	113	73-150	9	20	
Vinyl chloride	9A27008	ND	20.00	2.00	0.402	ug/L	24.4	24.6	122	123	53-139	1	20	
Xylenes, total	9A27008	ND	60.00	3.00	1.20	ug/L	62.4	62.7	104	105	64-132	1	20	
Surrogate: 1,2-Dichloroethane-d4	*9A27008*					ug/L			*91*	*98*	*69-133*			
Surrogate: 4-Bromofluorobenzene	*9A27008*					ug/L			*101*	*102*	*66-124*			
Surrogate: Dibromofluoromethane	*9A27008*					ug/L			*97*	*100*	*81-127*			
Surrogate: Toluene-d8	*9A27008*					ug/L			*108*	*110*	*87-121*			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN–OF–CUSTODY ADDENDUM

Lot No: ASA0086

CHECKED/RECEIVED BY: [signature]

COC NUMBER: _____

DATE/TIME RECEIVED: 1/14/09 0830

QUOTE/PROFILE: _____

UNPACKED DATE/TIME: 1/14/09 09:50

CLIENT/PROJECT: EA Engineering

SAMPLES LOGGED IN: CC

LOG-IN REVIEWED: JNS

Number of Shipping Containers Received with Chain of Custody _____

VOC AIR / FILTER SAMPLES ☐ YES **SEE SECTIONS 1.0, 2.0, & 6.0**

1.0 CONTAINERS EXAMINED UPON RECEIPT: CC

Container Sealed: ☑ YES ☐ NO

Custody Seal Signed/Dated: ☑ YES ☐ NO

Custody Seal Present: ☑ YES ☐ NO

If seal not intact list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT: _____

Canister Valves Closed: ☐ YES ☐ NO

Samples Received Match Chain: ☐ YES ☐ NO

Canister Valves Capped: ☐ YES ☐ NO

Other Equipment Received: ☐ YES ☐ NO

Valve Cap Tightened Properly: ☐ YES ☐ NO

See Additional Comments (Section 5.0 and / or 7.0) ☐ YES ☐ NO

Packing Material Used: (circle)

Chain-of-Custody form properly maintained: ☐ YES ☐ NO

None / Absorbent / Paper / Bubble Wrap

Can Size: ☐ 6L ☐ 15L Other _____

3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: CC **IR THERMOMETER #:** ☐ P4 ☑ P5

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container CF = Correction Factor *[acceptable tolerance 4°C ± 2°]*

(TB) SC Initial 2.6 CF -.2	TB SC Initial CF	TB SC Initial CF	TB SC Initial CF	TB SC Initial CF	TB SC Initial CF	TB SC Initial CF	TB SC Initial CF
Final 2.4°C	Final	Final	Final	Final	Final	Final	Final

If temperature is outside acceptable tolerance, Project Manager was notified (_____PM). Date: _____ Time: _____

Samples received do not require cooling _____

OK to analyze samples: ☑ YES ☐ NO

PRESERVATION OF SAMPLES REQUIRED: ☐ NA ☐ YES ☑ VOA Samples **VERIFIED BY:** C

NOTE: pH CHECK OF SAMPLES FOR 1664A ANALYSIS CHECK AT TIME OF ANALYSIS BY BENCH ANALYST pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Base samples are>pH 12: ☐ YES ☐ NO

Acid preserved are<pH 2: ☐ YES ☐ NO

Cyanide samples checked for sulfides: ☐ YES

Sulfide samples appear to be preserved with zinc acetate: ☐ YES ☐ NO

Samples checked for chlorine per specification (N.C.) ☐ YES

Free chlorine present: ☐ YES ☐ NO

If sample preservation is outside acceptable tolerance, Project Manager was notified (_____PM)

Date: _____ Time: _____ ☐ see pH adjustment form

VOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN–OF–CUSTODY ADDENDUM

Lot No: ASA0086

4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: CC

Samples received match COC: ☑ YES ☐ NO
Bottles received intact: ☑ YES ☐ NO
See additional discrepancies/comments section: ☐ YES ☑ NO
Samples received from USDA restricted area: ☐ YES ☑ NO
Chain-of-Custody form properly maintained: ☑ YES ☐ NO
VOA trip blanks included: 2 ☑ YES ☐ NO ☐ N/A

5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC: ☑ YES ☐ NO Air bill #: _____

Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

CORRECTIVE ACTION:

Client's Name: _____ Informed verbally on: _____ By: _____

Client's Name: _____ Informed verbally on: _____ By: _____

Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____

REVIEW:

Project Management: [signature] Date: 1/16/09

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

27200

Chain of Custody Record

AS A0086

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4149 (1007)

Client: EA Engineering	Project Manager: Luis Vega	Date: 01/13/09	Page 1 of 1
Address: 6650 W. SAM HOUSTON PKWY N #400	Telephone Number (Area Code)/Fax Number: 972-459-5042	Lab Location	Analysis
City: Houston, State: TX, Zip Code: 77041	Site Contact		
Project Number/Name: 14342006 A 3.	Carrier/Waybill Number		
Contract/Purchase Order/Quote Number			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	VOC'S
NEMW32C	01/13/09	0915	GRAB	40mL	VOA	4	HCL	2.4 1-14-09 CC	X
OCPTS	01/13/09	1000	GRAB	40mL	VOA	4	HCL		X
TRIP BLANK									X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ Normal ☐ Rush ☐ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	01/13/09	13:00	1. Received By	1-14-09	0830
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

27200

Chain of Custody Record

ASA0086

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4149 (1007)

Client: EA Engineering	Project Manager: Luis Vega	Date: 01/13/09
Address: 6650 W. SAM HOUSTON Pkwy N #420	Telephone Number (Area Code)/Fax Number: 972-459-5042	Lab Location:
City: Houston, State: TX Zip Code: 77041	Site Contact:	Page 1 of 1
Project Number/Name: 14342006 A 3	Carrier/Waybill Number:	Analysis
Contract/Purchase Order/Quote Number:		

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	VOC 3
NEMW32C	01/13/09	0915	GRAB	40mL	VOA	4	HCL	2.4 1-14-09 CC	X
OCPT5	01/13/09	1000	GRAB	40mL	VOA	4	HCL		X
TRIP BLANK									X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	01/13/09	13:00	1. Received By	1-14-09	0830
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Supporting Documentation

Lot Number ASA0086

(Note: A one-page "Description of Supporting Documentation" is provided at the beginning of each section.)

	Check below when supporting documentation is present.
GC/MS Volatile	✓
GC/MS Semivolatile	
GC Volatile	
GC Semivolatile	
Metals	
General Chemistry	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EA Engineering Science & Technology 405 South Highway 121, Building C, Suite 100 Lewisville, TX 75067	Work Order: Project: Project Number:	ASA0086 Gulfco Marine T/O 0006-RSBD-06JZ	Received: Reported:	01/14/09 02/03/09 11:27

Sample Summary

SAMPLE IDENTIFICATION	LAB NUMBER	Client Matrix	Date/Time Sampled	Date/Time Received
NEMW32C	ASA0086-01	Water	01/13/09 09:15	01/14/09 08:30
OCPT5	ASA0086-02	Water	01/13/09 10:00	01/14/09 08:30
TRIP BLANK	ASA0086-03	Water	01/13/09 00:01	01/14/09 08:30

Metals by Method SW-846 6020 Terminology

INSTRUMENT	
QC Std #1	ICV (Initial Calibration Verification)
QC Std #2	ICB (initial Calibration Blank)
QC Std #3	LLCk Std (Low-level Check Standard for TRRP only)
QC Std #4	ICSA (Interference Check Standard – Interfering Elements)
QC Std #5	ICSAB (Interference Check Standard – Analytes and Interferants)
QC Std #6	CCV (Continuing Calibration Verification)
QC Std #7	CCB (Continuing Calibration Blank)
SD5X	Serial Dilution
AS1.04X	Analytical Spike

GC/MS VOLATILES

SUPPORTING DOCUMENTATION DESCRIPTION PAGE

QC & Sample Data

Calibration Data

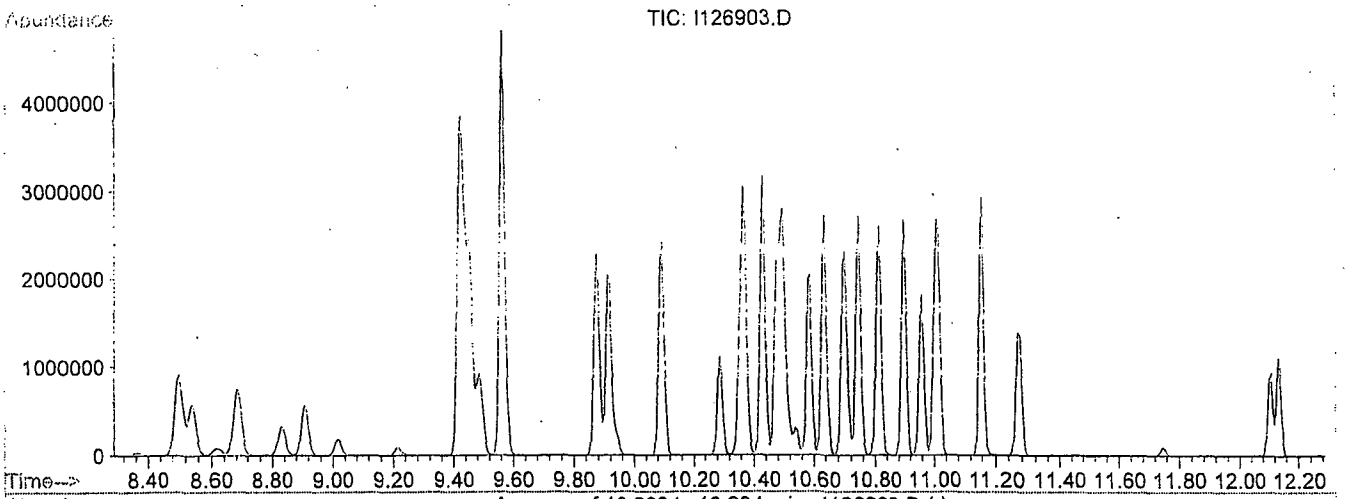
Method: 8260 B

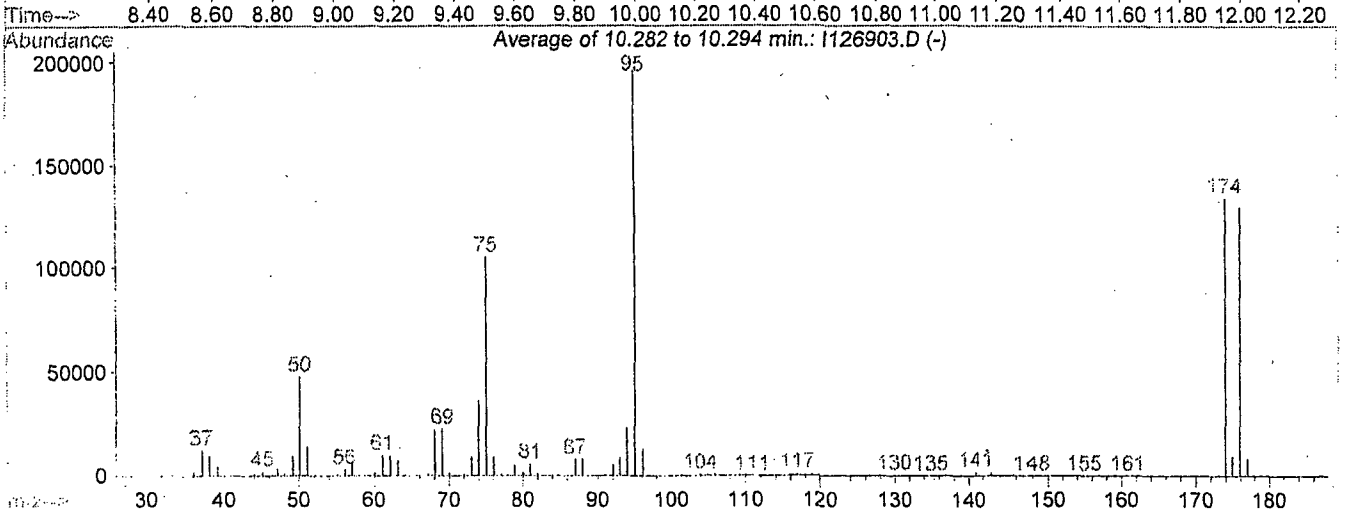
Associated Samples: 1-3

Batch Number: 9A27008

BFB

Data File : C:\HPCHEM\1\DATA\I012609.B\I126903.D Vial: 3
Acq On : 26 Jan 2009 6:26 am Operator: DY
Sample : CCV,REG Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water





AutoFind: Scans 1511, 1512, 1513; Background Corrected with Scan 1505

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.5	47832	PASS
75	95	30	60	53.8	105237	PASS
95	95	100	100	100.0	195627	PASS
96	95	5	9	6.8	13301	PASS
173	174	0.00	2	0.4	591	PASS
174	95	50	100	68.8	134555	PASS
175	174	5	9	7.1	9592	PASS
176	174	95	101	96.6	130029	PASS
177	176	5	9	6.5	8430	PASS

WMR 1/30/09

Injection Log

Directory: h:\msi.i\i012609.b

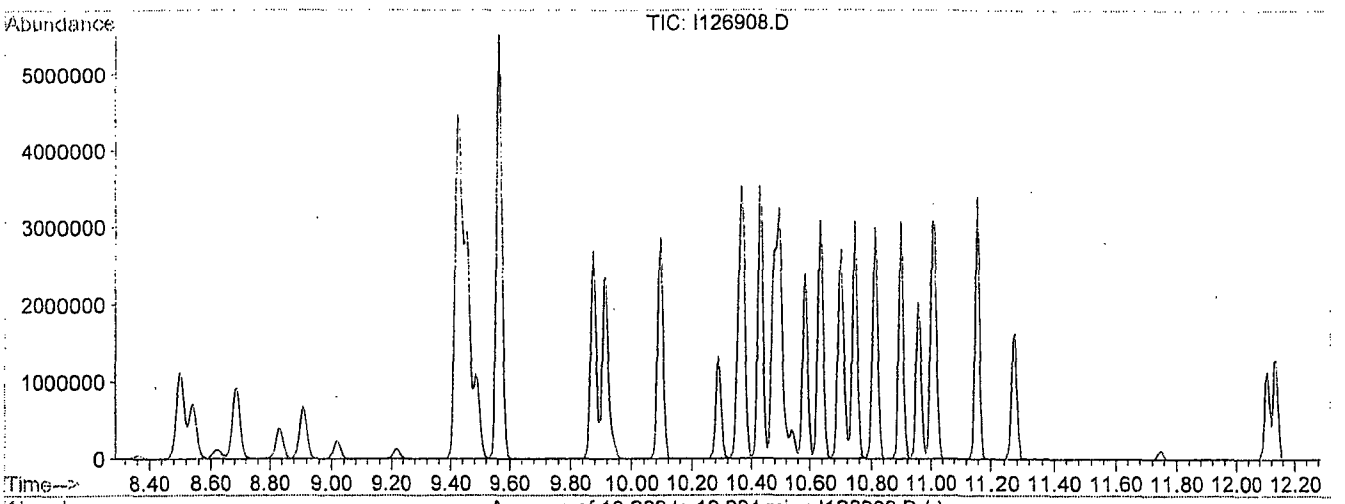
JAN 27 2009

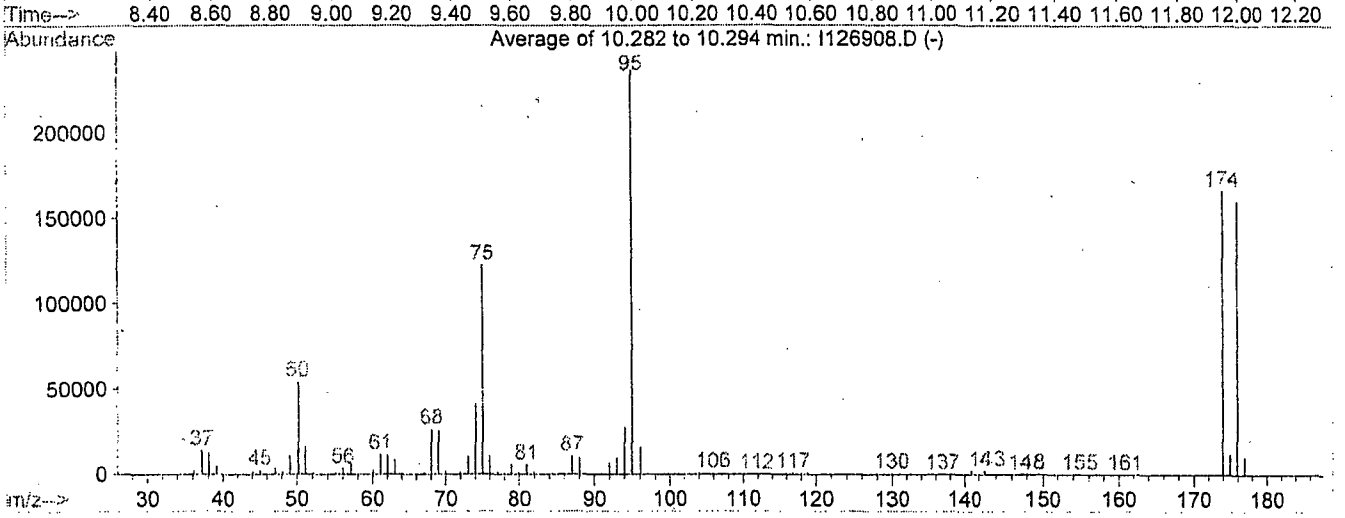
Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	i126901.d	1.	BLANK	1,1, 9010001 5uL/50mL	26 Jan 09 05:31
2	2	i126902.d	1.	BLANK	1,1, 9010225 5uL/50mL	26 Jan 09 05:59
3	3	i126903.d	1.	CCV,REGC	9010191 5uL/50mL	26 Jan 09 06:26
4	4	i126904.d	1.	BATCH-BS1@1,REGC	9010191 5uL/50mL	26 Jan 09 06:53
5	5	i126905.d	1.	BATCH-BSD1@1,REGC	9010191 5uL/50mL	26 Jan 09 07:20
6	6	i126906.d	1.	BATCH-MS1@1X MS,REGC	9010191 4.2uL/42mL; VIALS 1-J,M,Q;G	26 Jan 09 08:21
7	7	i126907.d	1.	BATCH-MSD1@1X MSD,REGC	9010191 4.2uL/42mL; VIALS 1-J,M,Q;G	26 Jan 09 08:48
8	8	i126908.d	1.	CCV,REG	9010191 5uL/50mL	26 Jan 09 09:15
9	9	i126909.d	1.	BLANK	1,1, 9010225 5uL/50mL	26 Jan 09 09:43
10	10	i126910.d	1.	BLANK	1,1, 9010225 5uL/50mL	26 Jan 09 10:10
11	11	i126911.d	1.	BATCH-BLK1@1,REGC	1,1, 9010225 5uL/50mL	26 Jan 09 10:37
12	12	i126912.d	1.	ASA0148-01 0@1X ,REGC	VIALS 1-J,M,Q;G	26 Jan 09 11:04
13	13	i126913.d	1.	ASA0086-01 @1X A,REGC		26 Jan 09 11:32
14	14	i126914.d	1.	ASA0086-02 @1X A,REGC		26 Jan 09 11:59
15	15	i126915.d	1.	ASA0086-03 @1X A,REGC		26 Jan 09 12:26
16	16	i126916.d	1.	ASA0122-12 @1X C,53765		26 Jan 09 12:53
17	17	i126917.d	1.	ASA0156-02 @1X A,BTEX		26 Jan 09 13:21
18	18	i126918.d	1.	ASA0156-01 @100X A,BTEX		26 Jan 09 13:48
19	19	i126919.d	1.	ASA0122-13 @1X C,53765		26 Jan 09 14:15
20	20	i126920.d	1.	ASA0122-14 @1X C,53765		26 Jan 09 14:43
21	21	i126921.d	1.	ASA0122-15 @1X C,53765		26 Jan 09 15:10
22	22	i126922.d	1.	ASA0122-16 @1X E,53765		26 Jan 09 15:38
23	23	i126923.d	1.	ASA0122-17 @1X C,53765		26 Jan 09 16:05
24	24	i126924.d	1.	ASA0122-18 @1X D,53765		26 Jan 09 16:37
25	25	i126925.d	1.	ASA0122-19 @1X B,53765		26 Jan 09 17:05
26	26	i126926.d	1.	ASA0131-07 @1X A,57989		26 Jan 09 17:33
27	27	i126927.d	1.	ASA0131-08 @1X A,57989		26 Jan 09 18:00
28	28	i126928.d	1.	ASA0131-09 @1X A,57989		26 Jan 09 18:28
29	29	i126929.d	1.	ASA0131-10 @1X A,57989		26 Jan 09 18:55
30	30	i126930.d	1.	ASA0131-11 @1X A,57989		26 Jan 09 19:23
31	31	i126931.d	1.	ASA0131-12 @1X A,57989		26 Jan 09 19:50
32	32	i126932.d	1.	ASA0086-01RE1 @2X A,CIS	CIS-D	26 Jan 09 20:17

BFB

Data File : H:\MSI.I\I012609.B\I126908.D
Acq On : 26 Jan 2009 9:15 am
Sample : CCV,REG
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water

Vial: 8
Operator: DY
Inst : MSI
Multiplr: 1.00





AutoFind: Scans 1511, 1512, 1513; Background Corrected with Scan 1505

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	54027	PASS
75	95	30	60	51.8	122221	PASS
95	95	100	100	100.0	235819	PASS
96	95	5	9	6.8	15953	PASS
173	174	0.00	2	0.2	360	PASS
174	95	50	100	70.5	166221	PASS
175	174	5	9	7.0	11654	PASS
176	174	95	101	96.4	160245	PASS
177	176	5	9	6.4	10335	PASS

I126908.D I81104W.M Mon Jan 26 09:37:09 2009 MSI

CMS 1.26.09

11/7/08

Calibration Table Report
Method: I81104W.M
Title: EPA Method 8260B/624 Calibration Curve 15mL Water
Last Calibration: Fri Nov 07 15:27:57 2008

Calibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
Compound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
Fluorobenzene (IS)	ISTD											
Dichlorodifluoromethane	0.441	0.388	0.347	0.374	0.368	0.362	0.353	0.320	0.369	9.558		
Chloromethane (SPCC)	0.392	0.363	0.333	0.369	0.347	0.358	0.366	0.367	0.362	4.768		
Vinyl chloride (CCC)	0.446	0.408	0.355	0.386	0.384	0.388	0.391	0.372	0.391	6.805		
Bromomethane	✓	0.252	0.207	0.192	0.174	0.180	0.201	0.222	0.204	13.025		
Ethylene oxide	✓	0.034	0.030	0.030	0.028	0.027			0.030	9.288		
Chloroethane	0.309	0.292	0.262	0.264	0.264	0.263	0.255	0.205	0.264	11.403		
Trichlorofluoromethane	0.494	0.430	0.384	0.405	0.397	0.392	0.387	0.354	0.405	10.221		
Ethyl ether	0.227	0.211	0.202	0.203	0.206	0.208	0.205	0.199	0.208	4.205		
Ethanol	✓	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	6.316		
1,1-Dichloroethene (CCC)	0.286	0.256	0.226	0.241	0.242	0.248	0.253	0.250	0.250	6.897		
Carbon disulfide	0.964	0.846	0.797	0.843	0.871	0.896	0.924	0.906	0.881	5.986		
1,1,2-Trichlorotrifluoroethane	0.289	0.261	0.224	0.237	0.233	0.234	0.234	0.219	0.242	9.442		
Propylene oxide	0.029	0.029	0.027	0.029	0.031	0.031	0.031	0.029	0.030	4.312		
Iodomethane	✓	0.139	0.173	0.261	0.338	0.375	0.388	0.387	0.294	35.546	1.000	
Bromoethane	0.222	0.205	0.197	0.194	0.200	0.202	0.202	0.205	0.203	4.101		
Acrolein	0.013	0.013	0.013	0.014	0.015	0.015	0.016	0.016	0.014	8.790		
3-Chloropropene	0.535	0.489	0.483	0.503	0.516	0.523	0.517	0.496	0.508	3.539		
Methylene chloride	0.329	0.301	0.275	0.276	0.279	0.278	0.277	0.273	0.286	6.845		
Acetone	✓	0.011	0.012	0.011	0.013	0.013	0.013	0.013	0.012	6.517		
trans-1,2-Dichloroethene	0.320	0.277	0.264	0.272	0.275	0.278	0.280	0.283	0.281	5.905		
Methyl acetate	0.021	0.021	0.020	0.022	0.022	0.022	0.022	0.022	0.021	4.343		
Hexane	0.107	0.094	0.086	0.092	0.093	0.094	0.095	0.088	0.094	6.806		
Methyl tert-butyl ether (MTBE)	0.606	0.596	0.558	0.572	0.590	0.590	0.589	0.569	0.584	2.743		
tert-Butyl alcohol	0.010	0.011	0.011	0.010	0.012	0.012	0.013	0.012	0.011	8.127		
Acetonitrile	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.010	6.460		
Isopropyl ether	1.085	1.034	0.993	1.021	1.051	1.059	1.034	0.979	1.032	3.333		
2-Chloro-1,3-butadiene	0.214	0.194	0.185	0.209	0.222	0.233	0.238	0.237	0.217	9.134		

Calibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
Compound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
1,1-Dichloroethane (SPCC)	0.616	0.567	0.534	0.536	0.546	0.546	0.536	0.523	0.551	5.316		
Acrylonitrile	0.054	0.053	0.050	0.052	0.054	0.053	0.053	0.052	0.053	2.661		
Vinyl acetate	0.302	0.291	0.304	0.326	0.355	0.365	0.368	0.354	0.333	9.333		
cis-1,2-Dichloroethene	0.323	0.291	0.283	0.284	0.293	0.295	0.300	0.301	0.296	4.186		
2,2-Dichloropropane	0.443	0.423	0.386	0.406	0.413	0.419	0.413	0.401	0.413	4.074		
Cyclohexane	0.594	0.521	0.472	0.515	0.513	0.509	0.509	0.470	0.513	7.458		
Bromochloromethane	0.147	0.140	0.130	0.131	0.136	0.140	0.141	0.144	0.139	4.251		
2-Methylhexane (NC)												
Chloroform (CCC)	0.524	0.488	0.461	0.467	0.469	0.468	0.466	0.460	0.475	4.498		
Carbon tetrachloride	0.353	0.322	0.290	0.319	0.326	0.326	0.323	0.314	0.322	5.390		
3-Methylhexane (NC)												
Ethyl acetate	0.134	0.130	0.127	0.131	0.139	0.138	0.136	0.128	0.133	3.447		
Tetrahydrofuran	✓	✓	0.017	0.017	0.020	0.020	0.021	0.020	0.019	8.500		
Dibromofluoromethane (Surr)	0.253	0.242	0.228	0.234	0.244	0.246	0.249	0.251	0.244	3.584		
1,1,1-Trichloroethane	0.438	0.401	0.369	0.395	0.396	0.396	0.399	0.388	0.398	4.782		
1,1-Dichloropropene	0.413	0.376	0.351	0.377	0.387	0.387	0.388	0.378	0.382	4.573		
2-Butanone (MEK)	0.071	0.070	0.052	0.054	0.058	0.060	0.061	0.059	0.060	11.154		
Benzene	1.323	1.211	1.149	1.168	1.194	1.208	1.201	1.180	1.204	4.360		
Heptane (NC)												
Propanenitrile	0.018	0.019	0.019	0.020	0.020	0.020	0.021	0.020	0.020	4.419		
Methacrylonitrile	0.061	0.058	0.058	0.063	0.067	0.067	0.068	0.066	0.063	6.629		
1,2-Dichloroethane-d4 (Surr)	0.167	0.156	0.140	0.133	0.133	0.132	0.127	0.124	0.139	10.694		
1,2-Dichloroethane	0.334	0.306	0.291	0.281	0.291	0.282	0.275	0.265	0.291	7.306		
Isobutyl alcohol	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.005	17.006	0.999	
Methylcyclohexane	0.412	0.372	0.331	0.356	0.358	0.358	0.366	0.343	0.362	6.641		
Trichloroethene	0.317	0.276	0.264	0.264	0.269	0.274	0.281	0.288	0.279	6.240		
Dibromomethane	0.112	0.102	0.098	0.100	0.106	0.107	0.107	0.107	0.105	4.344		
n-Butanol	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.003	29.253	0.999	
1,2-Dichloropropane (CCC)	0.311	0.280	0.267	0.271	0.282	0.282	0.281	0.279	0.282	4.609		
Bromodichloromethane	0.334	0.306	0.297	0.313	0.331	0.331	0.335	0.338	0.323	4.821		
1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.800		
Methyl methacrylate	0.079	0.072	0.080	0.089	0.102	0.109	0.116	0.116	0.095	18.534	1.000	
1-Bromo-2-chloroethane	0.320	0.304	0.283	0.281	0.297	0.299	0.300	0.297	0.298	4.061		
cis-1,3-Dichloropropene	0.373	0.359	0.362	0.381	0.418	0.428	0.434	0.431	0.398	8.196		

alibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
ompound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
-Chloroethyl vinyl ether	✓	✓	0.070	0.076	0.087	0.090	0.092	0.088	0.084	10.583		
oluene-d8 (Surr)	0.985	0.936	0.892	0.920	0.964	0.983	0.997	0.993	0.959	4.022		
hlorobenzene-d5 (IS)	ISTD											
oluene (CCC)	6.128	5.837	5.563	5.599	5.668	5.672	5.395	5.240	5.638	4.769		
pichlorohydrin	0.056	0.051	0.054	0.057	0.061	0.062	0.061	0.057	0.057	6.453		
-Nitropropane	✓	✓	✓	0.114	0.130	0.146	0.157	0.161	0.142	13.697		
etrachloroethene	1.107	0.964	0.865	0.909	0.916	0.907	0.900	0.896	0.933	8.078		
-Methyl-2-pentanone (MIBK)	0.496	0.501	0.529	0.559	0.612	0.639	0.626	0.586	0.569	9.857		
rans-1,3-Dichloropropene	1.335	1.306	1.365	1.449	1.575	1.594	1.518	1.478	1.452	7.483		
1,1,2-Trichloroethane	0.789	0.787	0.775	0.774	0.787	0.771	0.738	0.728	0.769	2.982		
-Methyl-2-pentanol (MIBC)	✓	0.066	0.073	0.080	0.098	0.110	0.133	0.132	0.099	27.716	0.999	
thyl methacrylate	✓	0.683	0.770	0.862	1.024	1.087	1.096	1.070	0.942	17.932	1.000	
Dibromochloromethane	0.790	0.763	0.755	0.810	0.867	0.898	0.875	0.874	0.829	6.777		
1,3-Dichloropropane	1.792	1.628	1.559	1.544	1.575	1.540	1.448	1.406	1.562	7.501		
1,2-Dibromoethane (EDB)	0.717	0.675	0.652	0.670	0.699	0.688	0.677	0.658	0.680	3.154		
2-Hexanone	✓	0.294	0.341	0.373	0.379	0.398	0.384	0.658	0.349	13.380		
Chlorobenzene (SPCC)	4.063	3.634	3.357	3.337	3.351	3.370	3.354	3.328	3.474	7.432		
1-Chlorohexane	2.543	1.872	1.475	1.414	1.341	1.307	1.207	1.102	1.533	30.526		1.000
Ethylbenzene (CCC)	2.240	1.980	1.834	1.895	1.960	1.971	1.938	1.943	1.970	6.034		
1,1,1,2-Tetrachloroethane	1.089	1.069	1.005	1.036	1.083	1.086	1.068	1.071	1.063	2.699		
m&p-Xylene	2.617	2.431	2.299	2.369	2.462	2.468	2.475	2.408	2.441	3.794		
o-Xylene	2.318	2.207	2.099	2.196	2.328	2.333	2.311	2.303	2.262	3.753		
Bromoform (SPCC)	0.328	0.320	0.325	0.350	0.393	0.405	0.419	0.425	0.371	12.053		
Styrene	2.870	2.782	2.894	3.347	3.660	3.759	3.756	3.734	3.350	13.043		
Isopropylbenzene	5.543	5.274	5.038	5.347	5.450	5.485	5.328	5.180	5.331	3.132		
Bromobenzene	1.178	1.092	1.083	1.100	1.143	1.139	1.153	1.185	1.134	3.412		
n-Propylbenzene	1.477	1.421	1.412	1.500	1.554	1.552	1.578	1.593	1.511	4.607		
1,1,2,2-Tetrachloroethane (SPCC)	0.835	0.823	0.781	0.780	0.801	0.795	0.788	0.773	0.797	2.739		
1,4-Bromofluorobenzene (Surr)	1.702	1.601	1.511	1.523	1.563	1.576	1.516	1.497	1.561	4.314		
1,4-Dichlorobenzene-d4 (IS)	ISTD											
2-Chlorotoluene	1.043	0.978	0.910	0.941	0.965	0.968	0.983	0.973	0.970	3.922		
Cyclohexanone	✓	✓	0.009	0.009	0.010	0.009	0.011	0.010	0.010	7.259		
1,2,3-Trichloropropane	0.222	0.211	0.202	0.197	0.198	0.194	0.193	0.185	0.200	5.817		
trans-1,4-Dichloro-2-butene	✓	0.116	0.125	0.137	0.157	0.163	0.173	0.165	0.148	14.834		

alibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
ompound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
-Ethyltoluene	4.196	4.007	3.905	4.103	4.262	4.254	4.264	4.038	4.129	3.304		
-Chlorotoluene	1.027	0.945	0.911	0.931	0.965	0.977	0.975	0.962	0.962	3.610		
,3,5-Trimethylbenzene	3.600	3.445	3.300	3.467	3.562	3.592	3.539	3.390	3.487	3.041		
-Ethyltoluene	4.365	4.202	4.032	4.131	4.289	4.270	4.199	3.991	4.185	3.060		
ert-Butylbenzene	2.107	1.974	1.854	1.910	1.926	1.914	1.859	1.765	1.914	5.217		
entachloroethane	0.428	0.413	0.442	0.459	0.503	0.534	0.551	0.567	0.487	12.216		
,2,4-Trimethylbenzene	3.486	3.476	3.340	3.441	3.594	3.616	3.575	3.406	3.492	2.783		
ec-Butylbenzene	4.697	4.321	4.041	4.179	4.281	4.286	4.264	4.005	4.259	4.985		
-Isopropyltoluene	3.688	3.555	3.407	3.595	3.740	3.763	3.772	3.599	3.640	3.449		
,3-Dichlorobenzene	1.938	1.757	1.656	1.636	1.690	1.710	1.724	1.712	1.728	5.396		
,4-Dichlorobenzene	2.125	1.908	1.769	1.726	1.775	1.761	1.799	1.770	1.829	7.153		
enzyl chloride	✓	✓	0.102	0.139	0.169	0.204	0.242	0.261	0.186	32.922	0.999	
-Butylbenzene	0.862	0.784	0.734	0.818	0.871	0.893	0.917	0.917	0.850	7.745		
1,2-Dichlorobenzene	1.568	1.459	1.355	1.371	1.434	1.445	1.436	1.428	1.437	4.459		
1,3,5-Trichlorobenzene (NC)												
1,2-Dibromo-3-chloropropane (DBCP)	✓	0.049	0.052	0.059	0.066	0.073	0.086	0.084	0.067	21.793	0.999	
Hexachlorobutadiene	0.486	0.467	0.411	0.413	0.417	0.421	0.438	0.435	0.436	6.217		
1,2,4-Trichlorobenzene	0.763	0.758	0.694	0.732	0.780	0.801	0.812	0.799	0.767	5.190		
Naphthalene	0.898	0.954	0.984	1.070	1.208	1.273	1.305	1.237	1.116	14.253		
1,2,3-Trichlorobenzene	0.552	0.551	0.526	0.522	0.552	0.554	0.559	0.544	0.545	2.483		

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8260 WATER CALCHECK (FORM VII)-- SOP LIMITS

JAN 27 2009

I126903.D					SPCC								
	SPIKE	AVG RF	AC	CCV RF	RF TOL		%DIFFERENCE			CC REC	CCC REC TOL		
COMPOUND	(ug/L)				> OR =	P/F	RESULT	TOL (%	P/F	%	LOW	HIGH	P/F
Fluorobenzene (IS)	16.7	44192.403	735048	1.000						0			
Dichlorodifluoromethane	20	0.369	342764	0.389			5.51			106	50	150	
Chloromethane (SPCC)	20	0.362	314569	0.357	0.10		-1.25			99	50	150	
Vinyl chloride (CCC)	20	0.391	387036	0.440			12.38	20		112			
Bromomethane	20	0.204	191262	0.217			6.50			106	50	150	
Ethylene oxide	250	0.030	319165	0.029			-2.65			97	10	200	
Chloroethane	20	0.264	260439	0.296			11.94			112	50	150	
Trichlorofluoromethane	20	0.405	421060	0.478			17.97			118	50	150	
Ethyl ether	20	0.208	164036	0.186			-10.25			90	50	150	
Ethanol	500	0.001	0	0.000			-100.00			0			
1,1-Dichloroethene (CCC)	20	0.250	218354	0.248			-0.96	20		99			
Carbon disulfide	20	0.881	850581	0.966			9.68			110	50	150	
1,1,2-Trichlorotrifluoroethane	20	0.242	241798	0.275			13.74			114	50	150	
Propylene oxide	100	0.030	108710	0.025			-16.44			84	10	200	
Iodomethane	20	0.392	286430	0.325			-16.99			83	65	135	
Bromoethane	20	0.203	172766	0.196			-3.47			97	65	135	
Acrolein	100	0.014	73560	0.017			16.48			116	10	200	
3-Chloropropene	20	0.508	548080	0.623			22.63			123	65	135	
Methylene chloride	20	0.286	225172	0.256			-10.59			89	65	135	
Acetone	20	0.012	8191	0.009			-24.68			75	50	150	
trans-1,2-Dichloroethene	20	0.281	252376	0.287			2.02			102	65	135	
Methyl acetate	50	0.021	39984	0.018			-15.20			85	50	150	
Hexane	20	0.094	94487	0.107			14.53			115	65	135	
Methyl tert-butyl ether (MTBE)	20	0.584	435267	0.494			-15.31			85	65	135	
tert-Butyl alcohol	500	0.011	148349	0.007			-40.58			59	10	200	
Acetonitrile	100	0.010	37755	0.009			-15.04			85	50	150	
Isopropyl ether	20	1.032	1000289	1.136			10.09			110	65	135	
2-Chloro-1,3-butadiene	20	0.217	210291	0.239			10.30			110	65	135	
1,1-Dichloroethane (SPCC)	20	0.551	528534	0.600	0.10		9.04			109	65	135	
Acrylonitrile	100	0.053	202976	0.046			-12.16			88	50	150	
Vinyl acetate	20	0.333	314631	0.357			7.31			107	10	200	
cis-1,2-Dichloroethene	20	0.296	248121	0.282			-4.84			95	65	135	
2,2-Dichloropropane	20	0.413	379875	0.432			4.51			105	65	135	
Cyclohexane	20	0.513	582817	0.662			29.11			129	65	135	
Bromochloromethane	20	0.139	106434	0.121			-12.84			87	65	135	
2-Methylhexane (NC)	20	0.000	0	0.000			NC				50	150	
Chloroform (CCC)	20	0.475	408618	0.464			-2.37	20		98			
Carbon tetrachloride	20	0.322	325905	0.370			15.12			115	65	135	
3-Methylhexane (NC)	20	0.000	0	0.000			NC				50	150	
Ethyl acetate	100	0.133	0	0.000			-100.00			0	50	150	Q
Tetrahydrofuran	20	0.019	15291	0.017			-9.67			90	50	150	
1,1,1-Trichloroethane	20	0.398	381066	0.433			8.88			109	65	135	
1,1-Dichloropropene	20	0.382	392776	0.446			16.75			117	65	135	
2-Butanone (MEK)	20	0.060	44822	0.051			-15.77			84	50	150	
Benzene	20	1.204	1127348	1.281			6.35			106	65	135	
Heptane (NC)	20	0.000	0	0.000			NC				50	150	
Propanenitrile	100	0.020	76498	0.017			-11.92			88	50	150	
Methacrylonitrile	100	0.063	253591	0.058			-9.17			91	50	150	
1,2-Dichloroethane	20	0.291	280129	0.318			9.53			110	65	135	
Isobutyl alcohol	500	0.006	71610	0.003			-47.40			53	50	150	
Methylcyclohexane	50	0.362	979301	0.445			22.97			123	50	150	

8260 WATER CALCHECK (FORM VII)-- SOP LIMITS

I126903.D					SPCC								
	SPIKE	AVG RF	AC	CCV RF	RF TOL		%DIFFERENCE			CC REC	CCC REC TOL		
COMPOUND	(ug/L)				> OR =	P/F	RESULT	TOL (%	P/F	%	LOW	HIGH	P/F
Trichloroethene	20	0.279	248108	0.282			0.99			101	65	135	
Dibromomethane	20	0.105	87423	0.099			-5.24			95	65	135	
n-Butanol	1000	0.004	75775	0.002			-58.10			42	10	200	
1,2-Dichloropropane (CCC)	20	0.282	265264	0.301			6.96	20		107			
Bromodichloromethane	20	0.323	291297	0.331			2.39			102	65	135	
1,4-Dioxane	500	0.001	17214	0.001			-37.79			62	10	200	
Methyl methacrylate	20	0.117	73145	0.083			-28.91			71	50	150	
1-Bromo-2-chloroethane	20	0.298	252379	0.287			-3.67			96	65	135	
cis-1,3-Dichloropropene	20	0.398	368092	0.418			5.02			105	65	135	
2-Chloroethyl vinyl ether	20	0.084	67143	0.076			-9.07			91	10	200	
Chlorobenzene-d5 (IS)	16.7	1.000	173796	1.000						100			
Toluene (CCC)	20	5.638	1141941	5.486			-2.68	20		97			
Epichlorohydrin	100	0.057	46452	0.045			-22.32			78	50	150	
2-Nitropropane	20	0.142	24327	0.117			-17.45			83	10	200	
Tetrachloroethene	20	0.933	171622	0.825			-11.62			88	65	135	
4-Methyl-2-pentanone (MIBK)	20	0.569	108058	0.519			-8.68			91	50	150	
trans-1,3-Dichloropropene	20	1.452	279003	1.340			-7.71			92	65	135	
1,1,2-Trichloroethane	20	0.769	132309	0.636			-17.30			83	65	135	
4-Methyl-2-pentanol (MIBC)	100	0.135	56670	0.054			-59.53			40	50	150	Q
Ethyl methacrylate	20	1.081	172381	0.828			-23.36			77	50	150	
Dibromochloromethane	20	0.829	150933	0.725			-12.53			87	65	135	
1,3-Dichloropropane	20	1.562	281224	1.351			-13.47			87	65	135	
1,2-Dibromoethane (EDB)	20	0.680	116646	0.560			-17.53			82	65	135	
2-Hexanone	20	0.349	58796	0.282			-19.16			81	50	150	
Chlorobenzene (SPCC)	20	3.474	707342	3.398	0.30		-2.18			98	65	135	
1-Chlorohexane	20	1.303	341612	1.641			25.96			126	65	135	
Ethylbenzene (CCC)	20	1.970	412996	1.984			0.72	20		101			
1,1,1,2-Tetrachloroethane	20	1.063	209565	1.007			-5.31			95	65	135	
m&p-Xylene	40	2.441	1053312	2.530			3.65			104	65	135	
o-Xylene	20	2.262	483716	2.324			2.75			103	65	135	
Bromoform (SPCC)	20	0.371	70531	0.339	0.10		-8.57			91	50	150	
Styrene	20	3.350	752607	3.616			7.93			108	65	135	
Isopropylbenzene	20	5.331	1257770	6.043			13.36			113	65	135	
Bromobenzene	20	1.134	231316	1.111			-2.00			98	65	135	
n-Propylbenzene	20	1.511	318423	1.530			1.27			101	65	135	
1,1,2,2-Tetrachloroethane (SPCC)	20	0.797	153311	0.737	0.30		-7.58			92	65	135	
1,4-Dichlorobenzene-d4 (IS)	16.7	1.000	244344	1.000						100			
2-Chlorotoluene	20	0.970	287170	0.981			1.17			101	65	135	
Cyclohexanone	100	0.010	0	0.000			-100.00			0			
1,2,3-Trichloropropane	20	0.200	45226	0.155			-22.79			77	65	135	
trans-1,4-Dichloro-2-butene	20	0.148	46665	0.159			7.58			108	50	150	
3-Ethyltoluene	20	4.129	1257078	4.296			4.05			104	65	135	
4-Chlorotoluene	20	0.962	281280	0.961			-0.05			100	65	135	
1,3,5-Trimethylbenzene	20	3.487	1029437	3.518			0.89			101	65	135	
2-Ethyltoluene	20	4.185	1242385	4.246			1.45			101	65	135	

8260 WATER CALCHECK (FORM VII)-- SOP LIMITS

I126903.D					SPCC								
	SPIKE	AVG RF	AC	CCV RF	RF TOL		%DIFFERENCE			CC REC	CCC REC.TOL		
COMPOUND	(ug/L)				> OR =	P/F	RESULT	TOL (%	P/F	%	LOW	HIGH	P/F
tert-Butylbenzene	20	1.914	589290	2.014			5.23			105	65	135	
Pentachloroethane	50	0.487	0	0.000			100.00			0	50	150	Q
1,2,4-Trimethylbenzene	20	3.492	1032432	3.528			1.04			101	65	135	
sec-Butylbenzene	20	4.259	1357879	4.640			8.95			109	65	135	
p-Isopropyltoluene	20	3.640	1087220	3.715			2.07			102	65	135	
1,3-Dichlorobenzene	20	1.728	486992	1.664			-3.69			96	65	135	
1,4-Dichlorobenzene	20	1.829	498042	1.702			-6.96			93	65	135	
Benzyl chloride	20	0.267	42836	0.146			-45.11			55	10	200	
n-Butylbenzene	20	0.850	248596	0.850			-0.02			100	65	135	
1,2-Dichlorobenzene	20	1.437	391594	1.338			-6.88			93	65	135	
1,3,5-Trichlorobenzene (NC)	50	0.000	0	0.000			NC				65	135	
1,2-Dibromo-3-chloropropane (DBC	20	0.086	13474	0.046			-46.22			54	50	150	
Hexachlorobutadiene	20	0.436	117805	0.403			-7.67			92	50	150	
1,2,4-Trichlorobenzene	20	0.767	223244	0.763			-0.60			99	50	150	
Naphthalene	20	1.116	316662	1.082			-3.03			97	50	150	
1,2,3-Trichlorobenzene	20	0.545	145859	0.498			-8.54			91	50	150	
Dibromofluoromethane (Surr)	16.7	0.244	179787	0.245			0.42			100	84	116	
1,2-Dichloroethane-d4 (Surr)	16.7	0.139	103893	0.141			1.71			102	73	126	
Toluene-d8 (Surr)	16.7	0.959	797148	1.084			13.10			113	89	119	
1,4-Bromofluorobenzene (Surr)	16.7	1.561	285176	1.641			5.12			105	80	116	

NT

Q - Failed criteria
NC-Not Calibrated

8260 WATER CALCHECK (FORM VII)-- SOP LIMITS

JAN 27 2009

I126908.D					SPCC								
	SPIKE	AVG RF	AC	CCV RF	RF TOL		%DIFFERENCE			CC REC	CCC REC TOL		
COMPOUND	(ug/L)				> OR =	P/F	RESULT	TOL (%	P/F	%	LOW	HIGH	P/F
Fluorobenzene (IS)	16.7	44192.403	924953	1.000						0			
Dichlorodifluoromethane	20	0.369	402734	0.364			-1.49			99	50	150	
Chloromethane (SPCC)	20	0.362	443172	0.400	0.10		10.56			111	50	150	
Vinyl chloride (CCC)	20	0.391	482697	0.436			11.38	20		111			
Bromomethane	20	0.204	267810	0.242			18.50			119	50	150	
Ethylene oxide	250	0.030	395624	0.029			-4.10			96	10	200	
Chloroethane	20	0.264	319861	0.289			9.26			109	50	150	
Trichlorofluoromethane	20	0.405	499976	0.451			11.32			111	50	150	
Ethyl ether	20	0.208	220867	0.199			-3.96			96	50	150	
Ethanol	500	0.001	0	0.000			-100.00			0			
1,1-Dichloroethene (CCC)	20	0.250	282209	0.255			1.72	20		102			
Carbon disulfide	20	0.881	1076929	0.972			10.36			110	50	150	
1,1,2-Trichlorotrifluoroethane	20	0.242	299960	0.271			12.13			112	50	150	
Propylene oxide	100	0.030	148211	0.027			-9.47			91	10	200	
Iodomethane	20	0.392	352611	0.318			-18.79			81	65	135	
Bromoethane	20	0.203	222853	0.201			-1.05			99	65	135	
Acrolein	100	0.014	104251	0.019			31.19			131	10	200	
3-Chloropropene	20	0.508	670219	0.605			19.17			119	65	135	
Methylene chloride	20	0.286	290454	0.262			-8.35			92	65	135	
Acetone	20	0.012	12258	0.011			-10.42			90	50	150	
trans-1,2-Dichloroethene	20	0.281	327479	0.296			5.20			105	65	135	
Methyl acetate	50	0.021	59108	0.021			-0.37			100	50	150	
Hexane	20	0.094	118222	0.107			13.88			114	65	135	
Methyl tert-butyl ether (MTBE)	20	0.584	603998	0.545			-6.61			93	65	135	
tert-Butyl alcohol	500	0.011	249372	0.009			-20.63			79	10	200	
Acetonitrile	100	0.010	49870	0.009			-10.82			89	50	150	
Isopropyl ether	20	1.032	1272913	1.149			11.33			111	65	135	
2-Chloro-1,3-butadiene	20	0.217	269091	0.243			12.16			112	65	135	
1,1-Dichloroethane (SPCC)	20	0.551	643479	0.581	0.10		5.50			105	65	135	
Acrylonitrile	100	0.053	276908	0.050			-4.77			95	50	150	
Vinyl acetate	20	0.333	431725	0.390			17.02			117	10	200	
cis-1,2-Dichloroethene	20	0.296	322236	0.291			-1.79			98	65	135	
2,2-Dichloropropane	20	0.413	472690	0.427			3.35			103	65	135	
Cyclohexane	20	0.513	700689	0.633			23.35			123	65	135	
Bromochloromethane	20	0.139	142190	0.128			-7.47			93	65	135	
2-Methylhexane (NC)	20	0.000	0	0.000			NC				50	150	
Chloroform (CCC)	20	0.475	510946	0.461			-2.98	20		97			
Carbon tetrachloride	20	0.322	397911	0.359			11.69			112	65	135	
3-Methylhexane (NC)	20	0.000	0	0.000			NC				50	150	
Ethyl acetate	100	0.133	0	0.000			-100.00			0	50	150	Q
Tetrahydrofuran	20	0.019	20822	0.019			-2.25			98	50	150	
1,1,1-Trichloroethane	20	0.398	466055	0.421			5.82			106	65	135	
1,1-Dichloropropene	20	0.382	482618	0.436			14.00			114	65	135	
2-Butanone (MEK)	20	0.060	64735	0.058			-3.33			97	50	150	
Benzene	20	1.204	1412955	1.276			5.93			106	65	135	
Heptane (NC)	20	0.000	0	0.000			NC				50	150	
Propanenitrile	100	0.020	104091	0.019			-4.76			95	50	150	
Methacrylonitrile	100	0.063	337678	0.061			-3.89			96	50	150	
1,2-Dichloroethane	20	0.291	339242	0.306			5.41			105	65	135	
Isobutyl alcohol	500	0.006	114690	0.004			-33.05			67	50	150	
Methylcyclohexane	50	0.362	1196221	0.432			19.37			119	50	150	

8260 WATER CALCHECK (FORM VII)-- SOP LIMITS

I126908.D					SPCC								
	SPIKE	AVG RF	AC	CCV RF	RF TOL		%DIFFERENCE			CC REC	CCC REC TOL		
COMPOUND	(ug/L)				> OR =	P/F	RESULT	TOL (%	P/F	%	LOW	HIGH	P/F
Trichloroethene	20	0.279	315745	0.285			2.13			102	65	135	
Dibromomethane	20	0.105	111286	0.100			-4.14			96	65	135	
n-Butanol	1000	0.004	135497	0.002			-40.45			60	10	200	
1,2-Dichloropropane (CCC)	20	0.282	330064	0.298			5.77	20		106			
Bromodichloromethane	20	0.323	355164	0.321			-0.79			99	65	135	
1,4-Dioxane	500	0.001	29713	0.001			-14.67			85	10	200	
Methyl methacrylate	20	0.117	103538	0.093			-20.04			80	50	150	
1-Bromo-2-chloroethane	20	0.298	319145	0.288			-3.20			97	65	135	
cis-1,3-Dichloropropene	20	0.398	469591	0.424			6.47			106	65	135	
2-Chloroethyl vinyl ether	20	0.084	91065	0.082			-2.00			98	10	200	
Chlorobenzene-d5 (IS)	16.7	1.000	216076	1.000						100			
Toluene (CCC)	20	5.638	1402109	5.418			-3.89	20		96			
Epichlorohydrin	100	0.057	62086	0.048			-16.50			84	50	150	
2-Nitropropane	20	0.142	33800	0.131			-7.75			92	10	200	
Tetrachloroethene	20	0.933	221453	0.856			-8.28			92	65	135	
4-Methyl-2-pentanone (MIBK)	20	0.569	144597	0.559			-1.72			98	50	150	
trans-1,3-Dichloropropene	20	1.452	348409	1.346			-7.30			93	65	135	
1,1,2-Trichloroethane	20	0.769	166145	0.642			-16.47			84	65	135	
4-Methyl-2-pentanol (MIBC)	100	0.135	83984	0.065			51.76			48	50	150	Q
Ethyl methacrylate	20	1.081	227803	0.880			-18.53			81	50	150	
Dibromochloromethane	20	0.829	193779	0.749			-9.67			90	65	135	
1,3-Dichloropropane	20	1.562	352024	1.360			-12.88			87	65	135	
1,2-Dibromoethane (EDB)	20	0.680	150105	0.580			-14.64			85	65	135	
2-Hexanone	20	0.349	83332	0.322			-7.84			92	50	150	
Chlorobenzene (SPCC)	20	3.474	864765	3.342	0.30		-3.81			96	65	135	
1-Chlorohexane	20	1.303	389354	1.505			15.48			115	65	135	
Ethylbenzene (CCC)	20	1.970	507995	1.963			-0.35	20		100			
1,1,1,2-Tetrachloroethane	20	1.063	260871	1.008			-5.20			95	65	135	
m&p-Xylene	40	2.441	1274208	2.462			0.85			101	65	135	
o-Xylene	20	2.262	590640	2.282			0.91			101	65	135	
Bromoform (SPCC)	20	0.371	87666	0.339	0.10		-8.59			91	50	150	
Styrene	20	3.350	918205	3.548			5.91			106	65	135	
Isopropylbenzene	20	5.331	1519721	5.873			10.17			110	65	135	
Bromobenzene	20	1.134	288953	1.117			-1.54			98	65	135	
n-Propylbenzene	20	1.511	390038	1.507			-0.23			100	65	135	
1,1,2,2-Tetrachloroethane (SPCC)	20	0.797	183615	0.710	0.30		-10.97			89	65	135	
1,4-Dichlorobenzene-d4 (IS)	16.7	1.000	300940	1.000						100			
2-Chlorotoluene	20	0.970	341166	0.947			-2.42			98	65	135	
Cyclohexanone	100	0.010	0	0.000			-100.00			0			
1,2,3-Trichloropropane	20	0.200	54611	0.152			-24.30			76	65	135	
trans-1,4-Dichloro-2-butene	20	0.148	54770	0.152			2.52			103	50	150	
3-Ethyltoluene	20	4.129	1484463	4.119			-0.24			100	65	135	
4-Chlorotoluene	20	0.962	338777	0.940			-2.26			98	65	135	
1,3,5-Trimethylbenzene	20	3.487	1204781	3.343			-4.13			96	65	135	
2-Ethyltoluene	20	4.185	1465372	4.066			-2.85			97	65	135	

8260 WATER CALCHECK (FORM VII)-- SOP LIMITS

I126908.D					SPCC								
	SPIKE	AVG RF	AC	CCV RF	RF TOL		%DIFFERENCE			CC REC	CCC REC TOL		
COMPOUND	(ug/L)				> OR =	P/F	RESULT	TOL (%	P/F	%	LOW	HIGH	P/F
tert-Butylbenzene	20	1.914	685957	1.903			-0.55			99	65	135	
Pentachloroethane	50	0.487	0	0.000			100.00			0	50	150	Q
1,2,4-Trimethylbenzene	20	3.492	1210290	3.358			-3.83			96	65	135	
sec-Butylbenzene	20	4.259	1582697	4.391			3.11			103	65	135	
p-Isopropyltoluene	20	3.640	1288641	3.576			-1.77			98	65	135	
1,3-Dichlorobenzene	20	1.728	586946	1.629			-5.75			94	65	135	
1,4-Dichlorobenzene	20	1.829	597806	1.659			-9.33			91	65	135	
Benzyl chloride	20	0.267	55300	0.153			-42.47			58	10	200	
n-Butylbenzene	20	0.850	300190	0.833			-1.98			98	65	135	
1,2-Dichlorobenzene	20	1.437	475901	1.320			-8.12			92	65	135	
1,3,5-Trichlorobenzene (NC)	50	0.000	0	0.000			NC				65	135	
1,2-Dibromo-3-chloropropane (DBC	20	0.086	17858	0.050			-42.13			58	50	150	
Hexachlorobutadiene	20	0.436	149069	0.414			-5.14			95	50	150	
1,2,4-Trichlorobenzene	20	0.767	288083	0.799			4.15			104	50	150	
Naphthalene	20	1.116	431962	1.199			7.40			107	50	150	
1,2,3-Trichlorobenzene	20	0.545	194628	0.540			-0.91			99	50	150	
Dibromofluoromethane (Surr)	16.7	0.244	224719	0.243			-0.26			100	84	116	
1,2-Dichloroethane-d4 (Surr)	16.7	0.139	125694	0.136			-2.21			98	73	126	
Toluene-d8 (Surr)	16.7	0.959	973973	1.053			9.82			110	89	119	
1,4-Bromofluorobenzene (Surr)	16.7	1.561	348975	1.615			3.46			103	80	116	

NT

Q - Failed criteria
NC-Not Calibrated

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY (Form VIII)

JAN 27 2009

File ID														BFB TIME IF NOT IN CCAL
Calcheck	Sample Name	FB Area	%		RT	CBD5 Area	%		RT	14DCBD4 Area	%		RT	Date/Time
I126903.D	CCV,REGC	735048			6.298	173796			9.4245	244344			11.006	26 Jan 2009 6:26 am
Upper Limit		1470096	200			347592	200			488688	200			
Lower Limit		367524	50			86898	50			122172	50			

Sample	Sample Name	FB Area	%		RT	CBD5 Area	%		RT	14DCBD4 Area	%		RT	Date/Time
I126904.D	BATCH-BS1@1,REGC	813822	111		6.295	188251	108		9.4217	259159	106		11.003	26 Jan 2009 6:53 am
I126905.D	BATCH-BSD1@1,REGC	863283	117		6.294	199370	115		9.4213	272774	112		11.003	26 Jan 2009 7:20 am
I126906.D	BATCH-MS1@1X MS,REGC	896609	122		6.295	207524	119		9.4219	283186	116		11.004	26 Jan 2009 8:21 am
I126907.D	BATCH-MSD1@1X MSD,REGC	911243	124		6.298	212928	123		9.4252	293390	120		11.007	26 Jan 2009 8:48 am
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY (Form VIII)

JAN 2 7 2009

File ID														BFB TIME IF NOT IN CCAL
Calcheck	Sample Name	FB Area	%		RT	CBD5 Area	%		RT	14DCBD4 Area	%		RT	Date/Time
I126908.D	CCV,REGC	924953			6.297	216076			9.4239	300940			11.006	26 Jan 2009 9:15 am
Upper Limit		1849906	200			432152	200			601880	200			
Lower Limit		462476.5	50			108038	50			150470	50			

Sample	Sample Name	FB Area	%		RT	CBD5 Area	%		RT	14DCBD4 Area	%		RT	Date/Time
I126911.D	BATCH-BLK1@1,REGC	864731	93		6.295	186995	87		9.4222	252378	84		11.004	26 Jan 2009 10:37 am
I126912.D	ASA0148-01 0@1X ,REGC	830237	90		6.295	174391	81		9.4223	229035	76		11.004	26 Jan 2009 11:04 am
I126913.D	ASA0086-01 @1X A,REGC	786284	85		6.296	171658	79		9.4227	233481	78		11.004	26 Jan 2009 11:32 am
I126914.D	ASA0086-02 @1X A,REGC	771905	83		6.301	171111	79		9.4215	231332	77		11.003	26 Jan 2009 11:59 am
I126915.D	ASA0086-03 @1X A,REGC	754020	82		6.295	162460	75		9.422	216689	72		11.004	26 Jan 2009 12:26 pm
I126916.D	ASA0122-12 @1X C,53765	737396	80		6.301	162096	75		9.4215	213996	71		11.003	26 Jan 2009 12:53 pm
I126917.D	ASA0156-02 @1X A,BTEX	736388	80		6.295	159562	74		9.4222	209418	70		11.004	26 Jan 2009 1:21 pm
I126918.D	ASA0156-01 @100X A,BTEX	749510	81		6.301	170994	79		9.4217	234304	78		11.003	26 Jan 2009 1:48 pm
I126919.D	ASA0122-13 @1X C,53765	778234	84		6.298	171725	79		9.4254	230934	77		11.007	26 Jan 2009 2:15 pm
I126920.D	ASA0122-14 @1X C,53765	744116	80		6.296	161310	75		9.4225	215743	72		11.004	26 Jan 2009 2:43 pm
I126921.D	ASA0122-15 @1X C,53765	729419	79		6.298	158307	73		9.4247	211805	70		11.006	26 Jan 2009 3:10 pm
I126922.D	ASA0122-16 @1X E,53765	708062	77		6.3	155799	72		9.4212	207498	69		11.003	26 Jan 2009 3:38 pm
I126923.D	ASA0122-17 @1X C,53765	691317	75		6.295	151064	70		9.4219	202614	67		11.004	26 Jan 2009 4:05 pm
I126924.D	ASA0122-18 @1X D,53765	550	0	Q	6.304	701	0	Q	9.4304	2176	1	Q	11.006	26 Jan 2009 4:37 pm
I126925.D	ASA0122-19 @1X B,53765	653263	71		6.297	140485	65		9.4241	186693	62		11.006	26 Jan 2009 5:05 pm
I126926.D	ASA0131-07 @1X A,57989	635042	69		6.297	141976	66		9.4242	189971	63		11.006	26 Jan 2009 5:33 pm
I126927.D	ASA0131-08 @1X A,57989	632727	68		6.302	140566	65		9.4224	189443	63		11.004	26 Jan 2009 6:00 pm
I126928.D	ASA0131-09 @1X A,57989	664429	72		6.301	145135	67		9.4218	192541	64		11.003	26 Jan 2009 6:28 pm
I126929.D	ASA0131-10 @1X A,57989	665136	72		6.298	148326	69		9.4251	197222	66		11.007	26 Jan 2009 6:55 pm
I126930.D	ASA0131-11 @1X A,57989	641618	69		6.298	140720	65		9.4247	181333	60		11.006	26 Jan 2009 7:23 pm
I126931.D	ASA0131-12 @1X A,57989	629141	68		6.295	136198	63		9.4221	179078	60		11.004	26 Jan 2009 7:50 pm
I126932.D	ASA0086-01RE1 @2X A,REGC	637190	69		6.298	140199	65		9.4247	185347	62		11.006	26 Jan 2009 8:17 pm
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		
			0	Q			0	Q			0	Q		

RR@1x

QC & Sample Data

TestAmerica
Austin Laboratory

MSVOA DATA REVIEW CHECK LIST

Lot Numbers / Lab Sample Numbers / Batch Numbers

9A27008	

Method / Queue: 8260B

Instrument ID: MS7

Analysis Date: 1-26-9

ICAL Date: 11-4-8

Review Item	Bench Analyst YES	Bench Analyst NO	1st Review YES	1st Review NO	2nd Review
Tuning					
BFB tuning criteria met	✓				✓
Mass list, RIC, and mass spectrum included	✓				✓
Correct BFB included with analytical runs	✓				✓
12 hour (8260) / 24 hour (624) clock requirements met	✓				✓
Initial Calibration					
Correct ICAL date on checklist	✓				✓
Correct ICAL referenced in sample header	✓				✓
Failing ICVs checked against target analyste list	✓				✓
Continuing Calibration					
RRF and % Difference within acceptance criteria	✓				✓
Sample Analysis					
Sample holding times met	✓				✓
Sample name and header information correct	✓				✓
RRT of identified cmpds. w/i +/-0.06 RRT units of RRT of std.comp.	✓				✓
Surrogate recoveries within limits	✓				✓
Quantified against appropriate standard	✓				✓
Ions present in standard spectra with abundance of >10% of base ion present in sample spectra			✓		✓
Runs(s) within linear range				✓	✓
Target analyte list match			✓		✓
Quality Control Samples					
Method blanks analyzed at required frequency	✓		✓		✓
Method blanks less than reporting limits	✓		✓		✓
LCS (LCSD) spike % recoveries and RPDs within limits			✓		✓
MS/MSD spike % recoveries within limits				✓	✓
MS/MSD/DUPs RPD within limits				✓	✓
Other					
Required forms completed (CCV and IS macro forms)	✓		✓		✓
Correct methodology used	✓		✓		✓
Transcriptions checked for accuracy	✓		✓		✓
All nonconformances written				NA	✓
All unused analyses noted on the sequence with the reason			✓		✓
All calculations checked at minimum frequency					
Data checked for potential false positive and false negative results			✓		✓
Manual integration checked by 2nd reviewer					✓
Units checked			✓		✓

Comment on any "NO" response:

over-cal, dilutions

Bench Analyst: 1-27-9M Date:

1st Review: SS Date: JAN 27 2009

2nd Review: 1-29-9M Date: 1/30/09

Austin Laboratory

INSTRUMENT GCMS-I1
SHIFT (Circle): 1 2 3
COMPUTER CLOCK DATE / TIME:

ANALYST / DATE: 1-26-9 PM
METHOD / TEST: 82603
SOP #: AU-MS-004, current revision

DAILY CHECK Y	COLUMN CHANGED N	P&T MAINT. (Describe) N	
M. PUMP OIL N	TURBO OIL N	FILAMENT CHANGE N	OTHER NA

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, etc. Column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:

Tune File: Atune.u
Elect Mult. 1224 volts
Tuning Performance: BFB
Sampling Rate 2^^ 4
Scan Range 35-300 amu
Interface: Open-Split

GC PROGRAM: I81104W

GC Meth. ~~7~~
Inj. Temp 150 C
Carrier Gas: Helium
Flow/Pressure 1.3
Initial Temp. 35 C
Init.Hold 2 min
Ramp 9 C/min
Final Temp. 85 C
Final Hold 0 min
2nd Ramp 30 C/min
2nd Temp 210 C
2nd Hold 4 min
3rd Ramp C/min
3rd Temp C
3rd Hold min

GC COLUMN:

Column ID#: MSVOAID 010
Phases/Loadings: RTXVMS
Capillary i.d. 0.25 mm Length 30 m
Injection Type (Circle & Describe): Purge & Trap Tekmar Velocity/Solatek
Split 120:1 Splitless

INSTRUMENT SEQUENCE:

Sample Name, Sample Number, Dilution, etc. Autosampler #

I126901	I81104W	BLANK
I126902	I81104W	BLANK
I126903	I81104W	CCV,REG 626am
I126904	I81104W	LCS,REG
I126905	I81104W	LCSD,REG
I126906	I81104W	ASA0148-01 @1X Q MS,REGC
I126907	I81104W	ASA0148-01 @1X M MSD,REGC
I126908	I81104W	CCV,REG 915am
I126909	I81104W	BLANK
I126910	I81104W	BLANK
I126911	I81104W	BLANK,REG
I126912	I81104W	ASA0148-01 0@1X ,REGC
I126913	I81104W	ASA0086-01 @1X A,REGC
I126914	I81104W	ASA0086-02 @1X A,REGC
I126915	I81104W	ASA0086-03 @1X A,REGC
I126916	I81104W	ASA0122-12 @1X C,53765
I126917	I81104W	ASA0156-02 @1X A,BTEX
I126918	I81104W	ASA0156-01 @100X A,BTEX
I126919	I81104W	ASA0122-13 @1X C,53765
I126920	I81104W	ASA0122-14 @1X C,53765
I126921	I81104W	ASA0122-15 @1X C,53765
I126922	I81104W	ASA0122-16 @1X E,53765
I126923	I81104W	ASA0122-17 @1X C,53765
I126924	I81104W	~~ASA0122-18 @1X D,53765~~ no ISD
I126925	I81104W	ASA0122-19 @1X B,53765
I126926	I81104W	ASA0131-07 @1X A,57989
I126927	I81104W	ASA0131-08 @1X A,57989
I126928	I81104W	ASA0131-09 @1X A,57989
I126929	I81104W	ASA0131-10 @1X A,57989
I126930	I81104W	ASA0131-11 @1X A,57989
I126931	I81104W	ASA0131-12 @1X A,57989
I126932	I81104W	ASA0086-01RE @2X A,CIS 0817pm

1-27-99

Sequence Name: C:\HPCHEM\1\SEQUENCE\I012609.S
Comment:
Operator: DY
Data Path: C:\HPCHEM\1\DATA\I012609.B\
Pre-Seq Cmd:
Post-Seq Cmd:

9427008

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

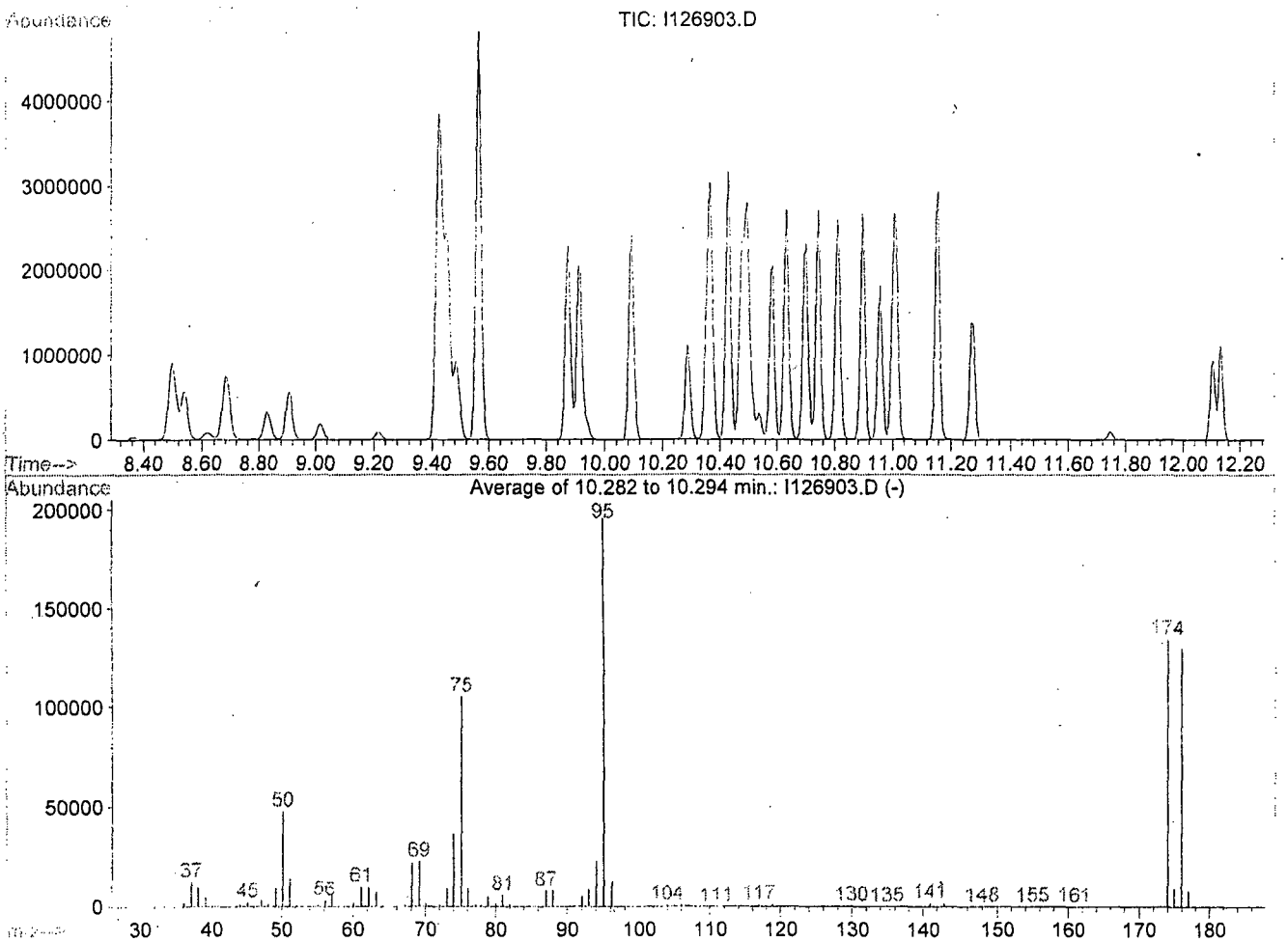
On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	1	I126901	I81104W	~~BLANK~~ dampy blanks
2	Blank	2	I126902	I81104W	~~BLANK~~
3	Blank	3	I126903	I81104W	CCV,REG 0626am
4	Blank	4	I126904	I81104W	LCS,REG
5	Blank	5	I126905	I81104W	LCSD,REG
6	Blank	6	I126906	I81104W	ASA0148-01 @1X Q MS,REGC
7	Blank	7	I126907	I81104W	ASA0148-01 @1X M MSD,REGC
8	Blank	8	I126908	I81104W	CCV,REG 0915am
9	Blank	9	I126909	I81104W	~~BLANK~~ dampy blanks
10	Blank	10	I126910	I81104W	~~BLANK~~
11	Blank	11	I126911	I81104W	BLANK,REG
12	Blank	12	I126912	I81104W	ASA0148-01 0@1X ,REGC parent
13	Blank	13	I126913	I81104W	ASA0086-01 @1X A,REGC
14	Blank	14	I126914	I81104W	ASA0086-02 @1X A,REGC
15	Blank	15	I126915	I81104W	ASA0086-03 @1X A,REGC
16	Blank	16	I126916	I81104W	ASA0122-12 @1X C,53765
17	Blank	17	I126917	I81104W	ASA0156-02 @1X A,BTEX
18	Blank	18	I126918	I81104W	ASA0156-01 @100X A,BTEX
19	Blank	19	I126919	I81104W	ASA0122-13 @1X C,53765
20	Blank	20	I126920	I81104W	ASA0122-14 @1X C,53765
21	Blank	21	I126921	I81104W	ASA0122-15 @1X C,53765
22	Blank	22	I126922	I81104W	ASA0122-16 @1X E,53765
23	Blank	23	I126923	I81104W	ASA0122-17 @1X C,53765
24	Blank	24	I126924	I81104W	~~ASA0122-18 @1X D,53765~~ no ISD
25	Blank	25	I126925	I81104W	ASA0122-19 @1X B,53765
26	Blank	26	I126926	I81104W	ASA0131-07 @1X A,57989
27	Blank	27	I126927	I81104W	ASA0131-08 @1X A,57989
28	Blank	28	I126928	I81104W	ASA0131-09 @1X A,57989
29	Blank	29	I126929	I81104W	ASA0131-10 @1X A,57989
30	Blank	30	I126930	I81104W	ASA0131-11 @1X A,57989
31	Blank	31	I126931	I81104W	ASA0131-12 @1X A,57989
32	Blank	32	I126932	I81104W	ASA0086-01RE @2X A,CIS 0817pm

156- RUSH

BFB

Data File : C:\HPCHEM\1\DATA\I012609.B\I126903.D Vial: 3
Acq On : 26 Jan 2009 6:26 am Operator: DY
Sample : CCV,REG Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water



AutoFind: Scans 1511, 1512, 1513; Background Corrected with Scan 1505

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.5	47832	PASS
75	95	30	60	53.8	105237	PASS
95	95	100	100	100.0	195627	PASS
96	95	5	9	6.8	13301	PASS
173	174	0.00	2	0.4	591	PASS
174	95	50	100	68.8	134555	PASS
175	174	5	9	7.1	9592	PASS
176	174	95	101	96.6	130029	PASS
177	176	5	9	6.5	8430	PASS

I126903.D I81104W.M Mon Jan 26 07:36:37 2009 MSI

1/30/09

Injection Log

Directory: h:\msi.i\i012609.b

JAN 27 2009

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	i126901.d	1.	BLANK	1,1, 9010001 5uL/50mL	26 Jan 09 05:31
2	2	i126902.d	1.	BLANK	1,1, 9010225 5uL/50mL	26 Jan 09 05:59
3	3	i126903.d	1.	CCV,REGC	9010191 5uL/50mL	26 Jan 09 06:26
4	4	i126904.d	1.	BATCH-BS1@1,REGC	9010191 5uL/50mL	26 Jan 09 06:53
5	5	i126905.d	1.	BATCH-BSD1@1,REGC	9010191 5uL/50mL	26 Jan 09 07:20
6	6	i126906.d	1.	BATCH-MS1@1X MS,REGC	9010191 4.2uL/42mL; VIALS 1-J,M,Q;G	26 Jan 09 08:21
7	7	i126907.d	1.	BATCH-MSD1@1X MSD,REGC	9010191 4.2uL/42mL; VIALS 1-J,M,Q;G	26 Jan 09 08:48
8	8	i126908.d	1.	CCV,REG	9010191 5uL/50mL	26 Jan 09 09:15
9	9	i126909.d	1.	BLANK	1,1, 9010225 5uL/50mL	26 Jan 09 09:43
10	10	i126910.d	1.	BLANK	1,1, 9010225 5uL/50mL	26 Jan 09 10:10
11	11	i126911.d	1.	BATCH-BLK1@1,REGC	1,1, 9010225 5uL/50mL	26 Jan 09 10:37
12	12	i126912.d	1.	ASA0148-01 0@1X ,REGC	VIALS 1-J,M,Q;G	26 Jan 09 11:04
13	13	i126913.d	1.	ASA0086-01 @1X A,REGC		26 Jan 09 11:32
14	14	i126914.d	1.	ASA0086-02 @1X A,REGC		26 Jan 09 11:59
15	15	i126915.d	1.	ASA0086-03 @1X A,REGC		26 Jan 09 12:26
16	16	i126916.d	1.	ASA0122-12 @1X C,53765		26 Jan 09 12:53
17	17	i126917.d	1.	ASA0156-02 @1X A,BTEX		26 Jan 09 13:21
18	18	i126918.d	1.	ASA0156-01 @100X A,BTEX		26 Jan 09 13:48
19	19	i126919.d	1.	ASA0122-13 @1X C,53765		26 Jan 09 14:15
20	20	i126920.d	1.	ASA0122-14 @1X C,53765		26 Jan 09 14:43
21	21	i126921.d	1.	ASA0122-15 @1X C,53765		26 Jan 09 15:10
22	22	i126922.d	1.	ASA0122-16 @1X E,53765		26 Jan 09 15:38
23	23	i126923.d	1.	ASA0122-17 @1X C,53765		26 Jan 09 16:05
24	24	i126924.d	1.	ASA0122-18 @1X D,53765		26 Jan 09 16:37
25	25	i126925.d	1.	ASA0122-19 @1X B,53765		26 Jan 09 17:05
26	26	i126926.d	1.	ASA0131-07 @1X A,57989		26 Jan 09 17:33
27	27	i126927.d	1.	ASA0131-08 @1X A,57989		26 Jan 09 18:00
28	28	i126928.d	1.	ASA0131-09 @1X A,57989		26 Jan 09 18:28
29	29	i126929.d	1.	ASA0131-10 @1X A,57989		26 Jan 09 18:55
30	30	i126930.d	1.	ASA0131-11 @1X A,57989		26 Jan 09 19:23
31	31	i126931.d	1.	ASA0131-12 @1X A,57989		26 Jan 09 19:50
32	32	i126932.d	1.	ASA0086-01RE1 @2X A,CIS	CIS-D	26 Jan 09 20:17

Quantitation Report (QT Reviewed)

1-29-09

Data File : H:\MSI.I\I012609.B\I126903.D
Acq On : 26 Jan 2009 6:26 am
Sample : CCV,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:04 19109

Vial: 3
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

JAN 2 7 2009

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	735048	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	173796	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	244344	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	179787	16.7696 PPB	0.00
Spiked Amount 16.700			Recovery	= 100.42%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	103893	16.9850 PPB	0.00
Spiked Amount 16.700			Recovery	= 101.68%	
64) Toluene-d8 (Surr)	8.08	98	797148	18.8884 PPB	0.00
Spiked Amount 16.700			Recovery	= 113.11%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	285176	17.5542 PPB	0.00
Spiked Amount 16.700			Recovery	= 105.09%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	342764	21.1011 PPB	S	98
3) Chloromethane (SPCC)	1.77	50	314569	19.7497 PPB	S	99
4) Vinyl chloride (CCC)	1.86	62	387036	22.4761 PPB	S	99
5) Bromomethane	2.19	94	191262	21.2993 PPB	S	99
6) Ethylene oxide	2.28	44	319165	243.3740 PPB		99
7) Chloroethane	2.32	64	260439	22.3888 PPB		96
8) Trichlorofluoromethane	2.47	101	421060	23.5946 PPB		98
9) Ethyl ether	2.79	59	164036	17.9507 PPB		90
11) 1,1-Dichloroethene (CCC)	2.99	96	218354	19.8077 PPB		85
12) Carbon disulfide	3.01	76	850581	21.9361 PPB		93
13) 1,1,2-Trichlorotrifluoroet	3.04	101	241798	22.7475 PPB		94
14) Propylene oxide	3.12	58	108710	83.5614 PPB		87
15) Iodomethane	3.13	142	286430	17.6771 PPB		89
16) Bromoethane	3.25	108	172766	19.3066 PPB		99
17) Acrolein	3.33	56	73560	116.4827 PPB		98
18) 3-Chloropropene	3.47	41	548080	24.5268 PPB		89
19) Methylene chloride	3.58	84	225172	17.8812 PPB		84
20) Acetone	3.64	58	8191	15.0643 PPB	#	82
21) trans-1,2-Dichloroethene	3.75	96	252376	20.4035 PPB		89
22) Methyl acetate	3.77	74	39984	42.4022 PPB	#	63
23) Hexane	3.83	86	94487	22.9067 PPB	#	63
24) Methyl tert-butyl ether (M	3.86	73	435267	16.9375 PPB	#	69
25) tert-Butyl alcohol	3.98	59	148349	297.0840 PPB		81
26) Acetonitrile	4.11	40	37755	84.9625 PPB		89
27) Isopropyl ether	4.25	45	1000289	22.0176 PPB		93
28) 2-Chloro-1,3-butadiene	4.36	88	210291	22.0593 PPB	#	68
29) 1,1-Dichloroethane (SPCC)	4.38	63	528534	21.8084 PPB		99
30) Acrylonitrile	4.43	53	202976	87.8386 PPB		98
31) Vinyl acetate	4.65	43	314631	21.4621 PPB		93
32) cis-1,2-Dichloroethene	4.94	96	248121	19.0327 PPB		89
33) 2,2-Dichloropropane	5.04	77	379875	20.9027 PPB		79
34) Cyclohexane	5.14	56	582817	25.8224 PPB		87
35) Bromochloromethane	5.15	130	106434	17.4319 PPB	#	75
37) Chloroform (CCC)	5.24	83	408618	19.5265 PPB		96
38) Carbon tetrachloride	5.36	117	325905	23.0232 PPB		100
41) Tetrahydrofuran	5.40	72	15291	18.0657 PPB	#	77
43) 1,1,1-Trichloroethane	5.43	97	381066	21.7752 PPB		94
44) 1,1-Dichloropropene	5.57	75	392776	23.3495 PPB		81
45) 2-Butanone (MEK)	5.56	43	44822	16.8450 PPB		99
46) Benzene	5.84	78	1127348	21.2700 PPB		95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126903.D Vial: 3
Acq On : 26 Jan 2009 6:26 am Operator: DY
Sample : CCV,REGC Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:04 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	Propanenitrile	5.87	54	76498	88.0787 PPB		99
49)	Methacrylonitrile	5.89	67	253591	90.8283 PPB	#	74
51)	1,2-Dichloroethane	6.06	62	280129	21.9065 PPB		98
52)	Isobutyl alcohol	6.13	43	71610	282.8969 PPB		91
53)	Methylcyclohexane	6.47	83	979301	61.4867 PPB		90
54)	Trichloroethene	6.49	130	248108	20.1977 PPB		94
55)	Dibromomethane	6.96	93	87423	18.9527 PPB		91
56)	n-Butanol	6.92	56	75775	479.2275 PPB	#	78
57)	1,2-Dichloropropane (CCC)	7.08	63	265264	21.3926 PPB		89
58)	Bromodichloromethane	7.17	83	291297	20.4786 PPB		97
59)	1,4-Dioxane	7.40	88	17214	311.0425 PPB		98
60)	Methyl methacrylate	7.37	69	73145	14.9755 PPB	#	70
61)	1-Bromo-2-chloroethane	7.71	63	252379	19.2657 PPB		98
62)	cis-1,3-Dichloropropene	7.89	75	368092	21.0045 PPB		84
63)	2-Chloroethyl vinyl ether	7.84	63	67143	18.1856 PPB		90
66)	Toluene (CCC)	8.13	91	1141941	19.4631 PPB		97
67)	Epichlorohydrin	8.16	57	46452	77.6753 PPB		86
68)	2-Nitropropane	8.36	43	24327	16.5093 PPB		84
69)	Tetrachloroethene	8.50	164	171622	17.6752 PPB		95
70)	4-Methyl-2-pentanone (MIBK	8.51	43	108058	18.2633 PPB		92
71)	trans-1,3-Dichloropropene	8.54	75	279003	18.4585 PPB		84
72)	1,1,2-Trichloroethane	8.68	97	132309	16.5398 PPB		95
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	56670	49.2628 PPB		81
74)	Ethyl methacrylate	8.69	69	172381	15.7018 PPB		76
75)	Dibromochloromethane	8.83	129	150933	17.4938 PPB		99
76)	1,3-Dichloropropane	8.91	76	281224	17.3055 PPB		83
77)	1,2-Dibromoethane (EDB)	9.02	107	116646	16.4936 PPB		100
78)	2-Hexanone	9.22	43	58796	16.1681 PPB		91
79)	Chlorobenzene (SPCC)	9.44	112	707342	19.5635 PPB		93
80)	1-Chlorohexane	9.42	55	341612	25.8048 PPB		91
81)	Ethylbenzene (CCC)	9.45	106	412996	20.1448 PPB		91
82)	1,1,1,2-Tetrachloroethane	9.49	131	209565	18.9370 PPB		98
83)	m&p-Xylene	9.56	106	1053312	41.4608 PPB		93
84)	o-Xylene	9.87	106	483716	20.5492 PPB		94
85)	Bromoform (SPCC)	9.94	173	70531	18.2865 PPB		99
86)	Styrene	9.91	104	752607	21.5857 PPB		95
87)	Isopropylbenzene	10.09	105	1257770	22.6729 PPB		97
88)	Bromobenzene	10.36	156	231316	19.5994 PPB	#	83
89)	n-Propylbenzene	10.37	120	318423	20.2533 PPB	#	82
90)	1,1,2,2-Tetrachloroethane	10.43	83	153311	18.4843 PPB		99
93)	2-Chlorotoluene	10.48	126	287170	20.2331 PPB		87
95)	1,2,3-Trichloropropane	10.51	110	45226	15.4424 PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	46665	21.5163 PPB		78
97)	3-Ethyltoluene	10.43	105	1257078	20.8091 PPB		97
98)	4-Chlorotoluene	10.59	126	281280	19.9895 PPB		87
99)	1,3,5-Trimethylbenzene	10.50	105	1029437	20.1784 PPB		69
100)	2-Ethyltoluene	10.64	105	1242385	20.2893 PPB		75
101)	tert-Butylbenzene	10.70	91	589290	21.0452 PPB		87
103)	1,2,4-Trimethylbenzene	10.74	105	1032432	20.2089 PPB		96
104)	sec-Butylbenzene	10.81	105	1357879	21.7899 PPB		97
105)	p-Isopropyltoluene	10.90	119	1087220	20.4140 PPB		96
106)	1,3-Dichlorobenzene	10.96	146	486992	19.2622 PPB		98
107)	1,4-Dichlorobenzene	11.01	146	498042	18.6079 PPB		98
108)	Benzyl chloride	11.16	126	42836	14.1066 PPB	#	22
109)	n-Butylbenzene	11.16	134	248596	19.9953 PPB	#	81

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126903.D Vial: 3
Acq On : 26 Jan 2009 6:26 am Operator: DY
Sample : CCV,REGC Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:04 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
110) 1,2-Dichlorobenzene	11.27	146	391594	18.6231 PPB	98
112) 1,2-Dibromo-3-chloropropan	11.75	157	13474	12.1272 PPB	87
113) Hexachlorobutadiene	12.11	225	117805	18.4652 PPB	99
114) 1,2,4-Trichlorobenzene	12.14	180	223244	19.8808 PPB	99
115) Naphthalene	12.33	128	316662	19.3931 PPB	100
116) 1,2,3-Trichlorobenzene	12.43	180	145859	18.2922 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

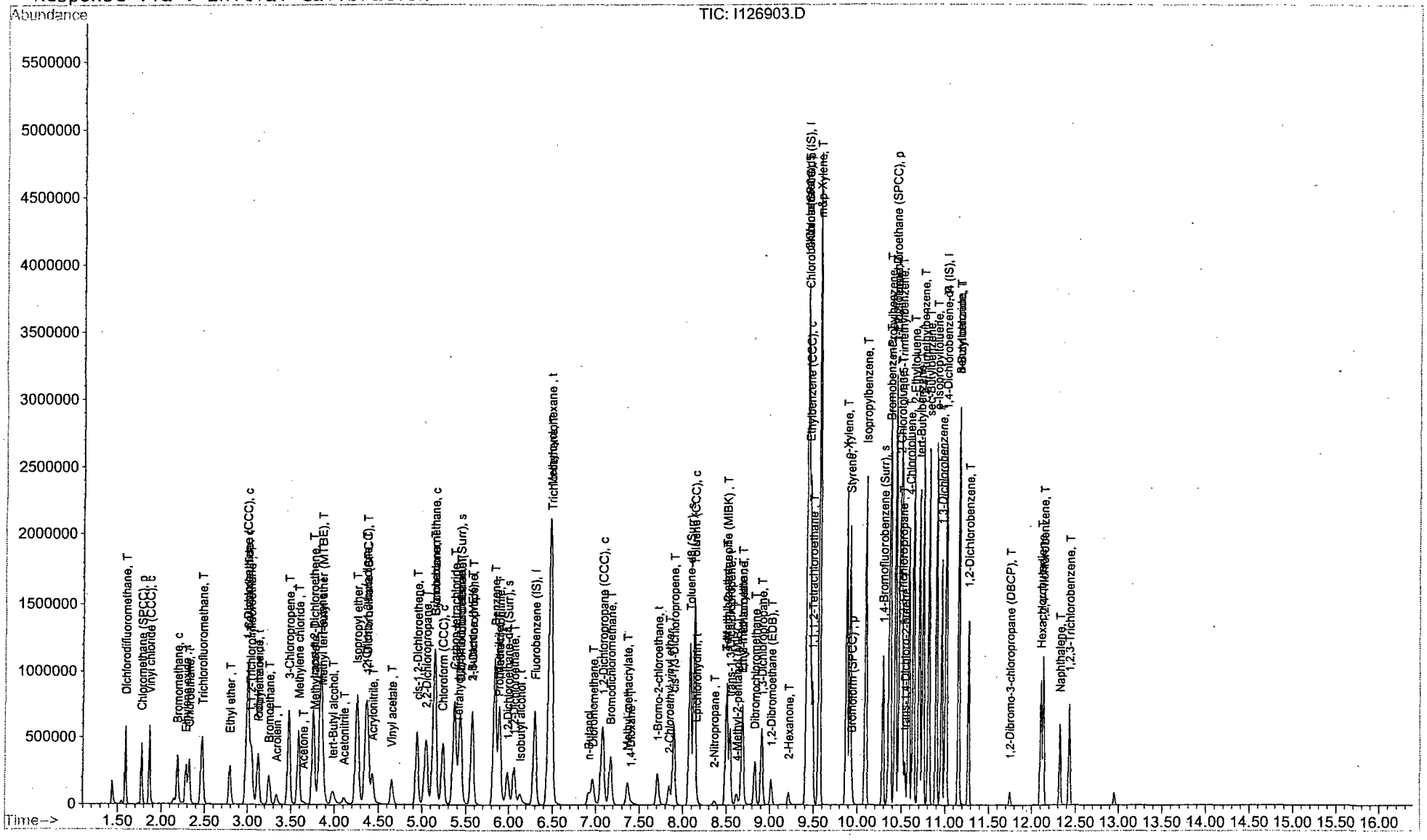
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126903.D
Acq On : 26 Jan 2009 6:26 am
Sample : CCV,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:04 19109

Vial: 3
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1-29-9 M 31/132

Data File : H:\MSI.I\I012609.B\I126904.D
Acq On : 26 Jan 2009 6:53 am
Sample : BATCH-BS1@1,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:12 19109

Vial: 4
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Only worked up: Target Analytes

JAN 27 2009

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.29	96	813822	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	188251	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	259159	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.42	113	199233	16.7846 PPB	0.00
Spiked Amount 16.700			Recovery	= 100.48%	
50) 1,2-Dichloroethane-d4 (Sur	5.98	67	112288	16.5805 PPB	0.00
Spiked Amount 16.700			Recovery	= 99.28%	
64) Toluene-d8 (Surr)	8.08	98	872820	18.6795 PPB	0.00
Spiked Amount 16.700			Recovery	= 111.86%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	304043	17.2785 PPB	0.00
Spiked Amount 16.700			Recovery	= 103.47%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	371866	20.6768 PPB		S 98
3) Chloromethane (SPCC)	1.77	50	369754	20.9673 PPB		S 100
4) Vinyl chloride (CCC)	1.86	62	441893	23.1778 PPB		S 99
5) Bromomethane	2.19	94	223660	22.4964 PPB		S 99
6) Ethylene oxide	2.29	44	339851	234.0636 PPB		98
7) Chloroethane	2.32	64	287816	22.3474 PPB		96
8) Trichlorofluoromethane	2.47	101	459189	23.2406 PPB		99
9) Ethyl ether	2.79	59	190018	18.7812 PPB		91
11) 1,1-Dichloroethene (CCC)	2.99	96	248428	20.3544 PPB		86
12) Carbon disulfide	3.00	76	963169	22.4354 PPB		94
13) 1,1,2-Trichlorotrifluoroet	3.04	101	269438	22.8942 PPB		95
14) Propylene oxide	3.12	58	123958	86.0591 PPB		87
15) Iodomethane	3.13	142	344279	19.0986 PPB		91
16) Bromoethane	3.25	108	196584	19.8419 PPB		99
17) Acrolein	3.33	56	83453	119.3570 PPB		97
18) 3-Chloropropene	3.47	41	620462	25.0783 PPB		90
19) Methylene chloride	3.59	84	254815	18.2765 PPB		86
20) Acetone	3.64	58	9657	16.0413 PPB		88
21) trans-1,2-Dichloroethene	3.75	96	290413	21.2060 PPB		91
22) Methyl acetate	3.77	74	46253	44.3025 PPB	#	61
23) Hexane	3.84	86	105329	23.0634 PPB	#	66
24) Methyl tert-butyl ether (M	3.86	73	499863	17.5684 PPB	#	75
25) tert-Butyl alcohol	3.98	59	161968	292.9612 PPB		83
26) Acetonitrile	4.10	40	40639	82.6004 PPB		86
27) Isopropyl ether	4.26	45	1131416	22.4933 PPB		94
28) 2-Chloro-1,3-butadiene	4.35	88	239789	22.7188 PPB	#	72
29) 1,1-Dichloroethane (SPCC)	4.38	63	589852	21.9827 PPB		99
30) Acrylonitrile	4.43	53	227937	89.0927 PPB		96
31) Vinyl acetate	4.65	43	363187	22.3762 PPB		94
32) cis-1,2-Dichloroethene	4.94	96	283540	19.6443 PPB		91
33) 2,2-Dichloropropane	5.04	77	428460	21.2941 PPB		83
34) Cyclohexane	5.14	56	637516	25.5118 PPB		88
35) Bromochloromethane	5.15	130	120062	17.7605 PPB	#	78
37) Chloroform (CCC)	5.24	83	463613	20.0101 PPB		96
38) Carbon tetrachloride	5.36	117	363867	23.2168 PPB		99
41) Tetrahydrofuran	5.40	72	17095	18.2421 PPB	#	80
43) 1,1,1-Trichloroethane	5.44	97	422239	21.7925 PPB		96
44) 1,1-Dichloropropene	5.57	75	437408	23.4858 PPB		83
45) 2-Butanone (MEK)	5.56	43	53003	17.9915 PPB		96
46) Benzene	5.83	78	1272010	21.6763 PPB		96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126904.D Vial: 4
Acq On : 26 Jan 2009 6:53 am Operator: DY
Sample : BATCH-BS1@1,REGC Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:12 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	Propanenitrile	5.88	54	84252	87.6168 PPB		100
49)	Methacrylonitrile	5.89	67	283947	91.8567 PPB	#	76
51)	1,2-Dichloroethane	6.06	62	304295	21.4930 PPB		99
52)	Isobutyl alcohol	6.13	43	77662	277.5153 PPB		95
53)	Methylcyclohexane	6.47	83	1081611	61.3370 PPB		91
54)	Trichloroethene	6.49	130	279133	20.5238 PPB		95
55)	Dibromomethane	6.96	93	96338	18.8638 PPB		91
56)	n-Butanol	6.92	56	79579	457.6670 PPB		81
57)	1,2-Dichloropropane (CCC)	7.07	63	295468	21.5219 PPB		90
58)	Bromodichloromethane	7.17	83	318187	20.2038 PPB		97
59)	1,4-Dioxane	7.41	88	18119	295.7048 PPB		97
60)	Methyl methacrylate	7.37	69	83825	15.4743 PPB		75
61)	1-Bromo-2-chloroethane	7.71	63	278597	19.2085 PPB		98
62)	cis-1,3-Dichloropropene	7.89	75	411471	21.2071 PPB		85
63)	2-Chloroethyl vinyl ether	7.84	63	74456	18.2143 PPB		92
66)	Toluene (CCC)	8.13	91	1263907	19.8878 PPB		97
67)	Epichlorohydrin	8.16	57	51180	79.0099 PPB		90
68)	2-Nitropropane	8.36	43	27343	17.1312 PPB		88
69)	Tetrachloroethene	8.50	164	191840	18.2404 PPB		97
70)	4-Methyl-2-pentanone (MIBK	8.51	43	117748	18.3729 PPB		94
71)	trans-1,3-Dichloropropene	8.54	75	307073	18.7556 PPB		87
72)	1,1,2-Trichloroethane	8.68	97	143407	16.5506 PPB		95
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	61761	49.5117 PPB		84
74)	Ethyl methacrylate	8.69	69	191027	16.0556 PPB		80
75)	Dibromochloromethane	8.83	129	166375	17.8029 PPB		99
76)	1,3-Dichloropropane	8.91	76	308814	17.5441 PPB		86
77)	1,2-Dibromoethane (EDB)	9.01	107	128930	16.8307 PPB		99
78)	2-Hexanone	9.21	43	67062	17.0251 PPB		92
79)	Chlorobenzene (SPCC)	9.43	112	767392	19.5946 PPB		94
80)	1-Chlorohexane	9.42	55	368541	25.6948 PPB		91
81)	Ethylbenzene (CCC)	9.45	106	452744	20.3879 PPB		87
82)	1,1,1,2-Tetrachloroethane	9.49	131	229416	19.1390 PPB		100
83)	m&p-Xylene	9.56	106	1150420	41.8061 PPB		95
84)	o-Xylene	9.88	106	526193	20.6372 PPB		94
85)	Bromoform (SPCC)	9.94	173	75496	18.0708 PPB		100
86)	Styrene	9.91	104	814037	21.5549 PPB		95
87)	Isopropylbenzene	10.09	105	1359944	22.6323 PPB		97
88)	Bromobenzene	10.36	156	252088	19.7193 PPB	#	85
89)	n-Propylbenzene	10.37	120	349036	20.4958 PPB	#	85
90)	1,1,2,2-Tetrachloroethane	10.43	83	159130	17.7127 PPB		99
93)	2-Chlorotoluene	10.47	126	301801	20.0484 PPB	#	85
95)	1,2,3-Trichloropropane	10.52	110	47528	15.3007 PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	48077	20.9001 PPB		80
97)	3-Ethyltoluene	10.43	105	1346960	21.0224 PPB		98
98)	4-Chlorotoluene	10.58	126	298853	20.0243 PPB		89
99)	1,3,5-Trimethylbenzene	10.49	105	1095184	20.2399 PPB		69
100)	2-Ethyltoluene	10.63	105	1326045	20.4176 PPB		75
101)	tert-Butylbenzene	10.70	91	625495	21.0612 PPB		89
103)	1,2,4-Trimethylbenzene	10.74	105	1089020	20.0979 PPB		97
104)	sec-Butylbenzene	10.81	105	1440481	21.7940 PPB		97
105)	p-Isopropyltoluene	10.90	119	1157513	20.4914 PPB		96
106)	1,3-Dichlorobenzene	10.96	146	515758	19.2338 PPB		99
107)	1,4-Dichlorobenzene	11.02	146	525999	18.5290 PPB		99
108)	Benzyl chloride	11.16	126	46610	14.3910 PPB	#	31
109)	n-Butylbenzene	11.16	134	267853	20.3126 PPB	#	86

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126904.D Vial: 4
Acq On : 26 Jan 2009 6:53 am Operator: DY
Sample : BATCH-BS1@1,REGC Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:12 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
110) 1,2-Dichlorobenzene	11.27	146	418801	18.7784 PPB	98
112) 1,2-Dibromo-3-chloropropan	11.75	157	14735	12.4614 PPB	91
113) Hexachlorobutadiene	12.10	225	129994	19.2110 PPB	100
114) 1,2,4-Trichlorobenzene	12.13	180	243928	20.4810 PPB	100
115) Naphthalene	12.32	128	349566	20.1845 PPB	100
116) 1,2,3-Trichlorobenzene	12.43	180	160054	18.9249 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

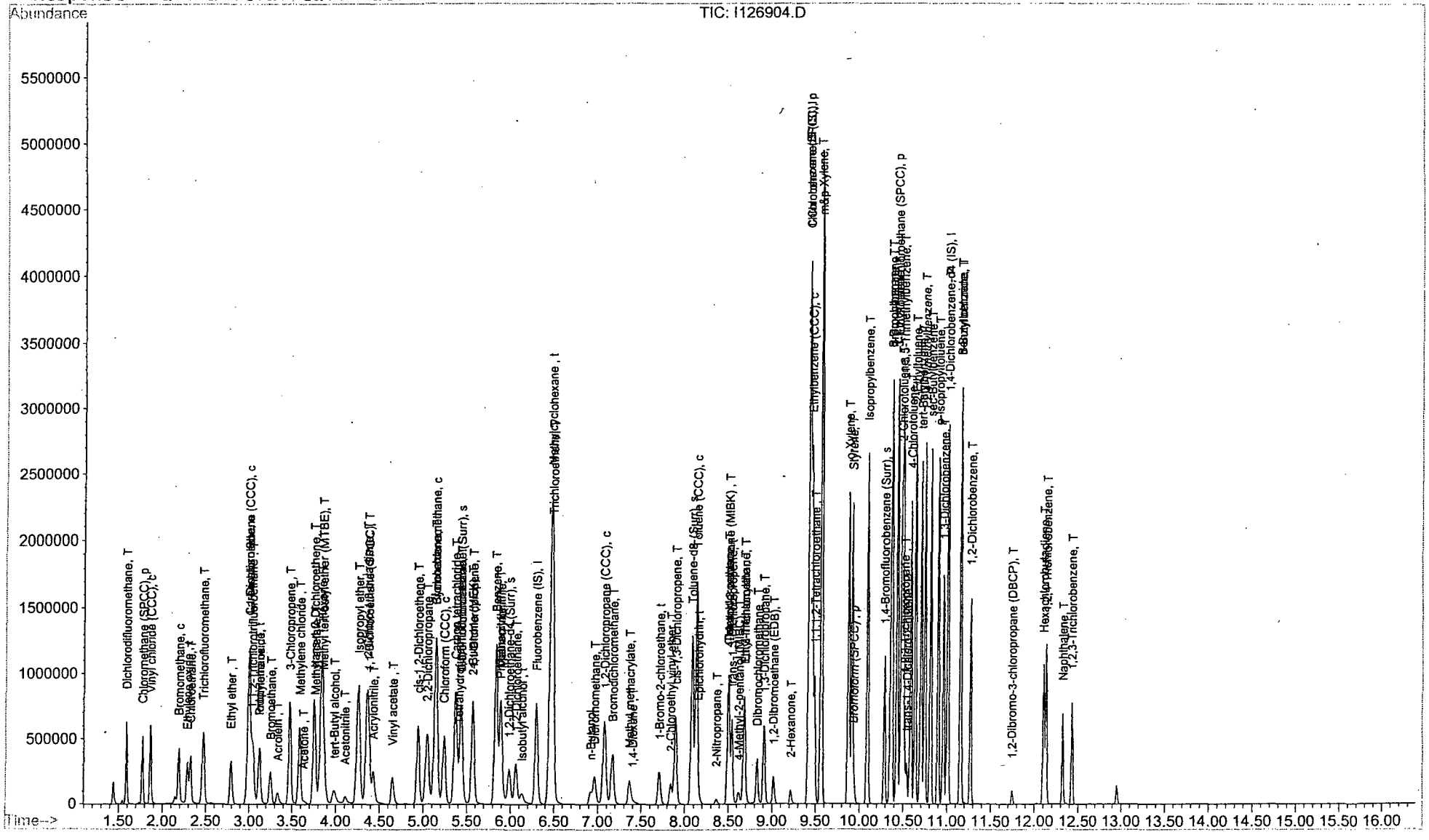
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126904.D
Acq On : 26 Jan 2009 6:53 am
Sample : BATCH-BS1@1,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:12 19109

Vial: 4
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) 1-29-09 35/132

Data File : H:\MSI.I\I012609.B\I126905.D
Acq On : 26 Jan 2009 7:20 am
Sample : BATCH-BSD1@1,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:13 19109

Vial: 5
Operator: DY
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Only worked up: Target Analytes

JAN 27 2009

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.29	96	863283	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	199370	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	272774	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	205385	16.3115 PPB	0.00
Spiked Amount 16.700			Recovery = 97.66%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	112630	15.6782 PPB	0.00
Spiked Amount 16.700			Recovery = 93.89%		
64) Toluene-d8 (Surr)	8.08	98	900530	18.1684 PPB	0.00
Spiked Amount 16.700			Recovery = 108.80%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	314442	16.8729 PPB	0.00
Spiked Amount 16.700			Recovery = 101.02%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	375928	19.7050 PPB	S	98
3) Chloromethane (SPCC)	1.77	50	394783	21.1040 PPB	S	99
4) Vinyl chloride (CCC)	1.87	62	444553	21.9814 PPB	S	99
5) Bromomethane	2.19	94	234991	22.2818 PPB	S	99
6) Ethylene oxide	2.29	44	343219	222.8398 PPB		99
7) Chloroethane	2.32	64	293321	21.4700 PPB		97
8) Trichlorofluoromethane	2.47	101	464399	22.1576 PPB		99
9) Ethyl ether	2.79	59	192607	17.9464 PPB		92
11) 1,1-Dichloroethene (CCC)	2.99	96	254082	19.6249 PPB		88
12) Carbon disulfide	3.00	76	977925	21.4740 PPB		95
13) 1,1,2-Trichlorotrifluoroet	3.04	101	274883	22.0186 PPB		95
14) Propylene oxide	3.12	58	125622	82.2175 PPB		89
15) Iodomethane	3.12	142	328908	17.3074 PPB		92
16) Bromoethane	3.25	108	200625	19.0896 PPB		100
17) Acrolein	3.34	56	86221	116.2507 PPB		99
18) 3-Chloropropene	3.48	41	619348	23.5990 PPB		91
19) Methylene chloride	3.59	84	260216	17.5945 PPB		88
20) Acetone	3.64	58	9858	15.4370 PPB		85
21) trans-1,2-Dichloroethene	3.75	96	295248	20.3239 PPB		91
22) Methyl acetate	3.77	74	48164	43.4897 PPB	#	70
23) Hexane	3.84	86	108404	22.3768 PPB	#	69
24) Methyl tert-butyl ether (M	3.86	73	515364	17.0754 PPB		78
25) tert-Butyl alcohol	3.98	59	160961	274.4592 PPB		85
26) Acetonitrile	4.11	40	40454	77.5134 PPB		88
27) Isopropyl ether	4.26	45	1145025	21.4596 PPB		94
28) 2-Chloro-1,3-butadiene	4.35	88	242664	21.6740 PPB	#	74
29) 1,1-Dichloroethane (SPCC)	4.38	63	590357	20.7409 PPB		100
30) Acrylonitrile	4.43	53	234523	86.4149 PPB		100
31) Vinyl acetate	4.65	43	369281	21.4482 PPB		94
32) cis-1,2-Dichloroethene	4.94	96	288617	18.8504 PPB		92
33) 2,2-Dichloropropane	5.05	77	432134	20.2462 PPB		84
34) Cyclohexane	5.14	56	649034	24.4847 PPB		89
35) Bromochloromethane	5.14	130	124969	17.4273 PPB	#	81
37) Chloroform (CCC)	5.24	83	465051	18.9222 PPB		97
38) Carbon tetrachloride	5.36	117	362590	21.8098 PPB		100
41) Tetrahydrofuran	5.39	72	16672	16.7714 PPB	#	78
43) 1,1,1-Trichloroethane	5.44	97	427873	20.8180 PPB		95
44) 1,1-Dichloropropene	5.57	75	443972	22.4725 PPB		85
45) 2-Butanone (MEK)	5.56	43	50456	16.1457 PPB		100
46) Benzene	5.84	78	1295493	20.8116 PPB		95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I012609.B\I126905.D
Acq On : 26 Jan 2009 7:20 am
Sample : BATCH-BSD1@1,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:13 19109

Vial: 5
Operator: DY
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	Propanenitrile	5.87	54	85653	83.9704 PPB		99
49)	Methacrylonitrile	5.89	67	287362	87.6353 PPB	#	78
51)	1,2-Dichloroethane	6.06	62	306817	20.4295 PPB		98
52)	Isobutyl alcohol	6.13	43	75509	256.0223 PPB		95
53)	Methylcyclohexane	6.46	83	1105102	59.0785 PPB		92
54)	Trichloroethene	6.49	130	285164	19.7659 PPB		95
55)	Dibromomethane	6.96	93	96783	17.8652 PPB		92
56)	n-Butanol	6.91	56	76532	420.5475 PPB		83
57)	1,2-Dichloropropane (CCC)	7.08	63	298445	20.4933 PPB		91
58)	Bromodichloromethane	7.16	83	318898	19.0888 PPB		98
59)	1,4-Dioxane	7.41	88	17559	270.1470 PPB		89
60)	Methyl methacrylate	7.37	69	85351	14.8837 PPB		75
61)	1-Bromo-2-chloroethane	7.71	63	281744	18.3125 PPB		98
62)	cis-1,3-Dichloropropene	7.89	75	417143	20.2676 PPB		86
63)	2-Chloroethyl vinyl ether	7.84	63	74368	17.1505 PPB		89
66)	Toluene (CCC)	8.13	91	1276748	18.9694 PPB		97
67)	Epichlorohydrin	8.16	57	52216	76.1136 PPB		92
68)	2-Nitropropane	8.36	43	27928	16.5219 PPB		89
69)	Tetrachloroethene	8.50	164	196142	17.6093 PPB		97
70)	4-Methyl-2-pentanone (MIBK	8.51	43	121380	17.8834 PPB		94
71)	trans-1,3-Dichloropropene	8.54	75	307354	17.7258 PPB		86
72)	1,1,2-Trichloroethane	8.68	97	145465	15.8518 PPB		95
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	61538	47.1019 PPB		85
74)	Ethyl methacrylate	8.69	69	191894	15.2481 PPB		81
75)	Dibromochloromethane	8.83	129	168129	16.9873 PPB		100
76)	1,3-Dichloropropane	8.91	76	313190	16.8004 PPB		86
77)	1,2-Dibromoethane (EDB)	9.02	107	131480	16.2064 PPB		99
78)	2-Hexanone	9.21	43	67386	16.1533 PPB		92
79)	Chlorobenzene (SPCC)	9.43	112	778888	18.7790 PPB		94
80)	1-Chlorohexane	9.42	55	371362	24.3715 PPB		91
81)	Ethylbenzene (CCC)	9.46	106	462471	19.6644 PPB		88
82)	1,1,1,2-Tetrachloroethane	9.49	131	232292	18.2981 PPB		99
83)	m&p-Xylene	9.57	106	1163172	39.9121 PPB		95
84)	o-Xylene	9.88	106	530816	19.6575 PPB		95
85)	Bromoform (SPCC)	9.94	173	75507	17.0655 PPB		99
86)	Styrene	9.91	104	817650	20.4431 PPB		95
87)	Isopropylbenzene	10.09	105	1382757	21.7286 PPB		97
88)	Bromobenzene	10.36	156	255055	18.8387 PPB	#	86
89)	n-Propylbenzene	10.37	120	351733	19.5023 PPB	#	87
90)	1,1,2,2-Tetrachloroethane	10.43	83	159793	16.7945 PPB		98
93)	2-Chlorotoluene	10.48	126	310221	19.5791 PPB		88
95)	1,2,3-Trichloropropane	10.52	110	47184	14.4318 PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	47577	19.6504 PPB		80
97)	3-Ethyltoluene	10.43	105	1357877	20.1349 PPB		98
98)	4-Chlorotoluene	10.58	126	303147	19.2982 PPB		90
99)	1,3,5-Trimethylbenzene	10.50	105	1105197	19.4055 PPB		68
100)	2-Ethyltoluene	10.64	105	1333974	19.5145 PPB		76
101)	tert-Butylbenzene	10.70	91	628101	20.0934 PPB		90
103)	1,2,4-Trimethylbenzene	10.75	105	1104420	19.3648 PPB		97
104)	sec-Butylbenzene	10.81	105	1464127	21.0461 PPB		97
105)	p-Isopropyltoluene	10.90	119	1176445	19.7870 PPB		96
106)	1,3-Dichlorobenzene	10.96	146	518419	18.3681 PPB		99
107)	1,4-Dichlorobenzene	11.02	146	531428	17.7859 PPB		98
108)	Benzyl chloride	11.16	126	44708	13.3922 PPB	#	21
109)	n-Butylbenzene	11.16	134	269714	19.4329 PPB	#	86

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I012609.B\I126905.D
Acq On : 26 Jan 2009 7:20 am
Sample : BATCH-BSD1@1,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:13 19109

Vial: 5
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,2-Dichlorobenzene	11.27	146	419415	17.8673	PPB	99
112) 1,2-Dibromo-3-chloropropan	11.75	157	14705	11.8864	PPB	90
113) Hexachlorobutadiene	12.10	225	134032	18.8190	PPB	99
114) 1,2,4-Trichlorobenzene	12.13	180	248917	19.8567	PPB	100
115) Naphthalene	12.32	128	356869	19.5776	PPB	100
116) 1,2,3-Trichlorobenzene	12.43	180	165480	18.5899	PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

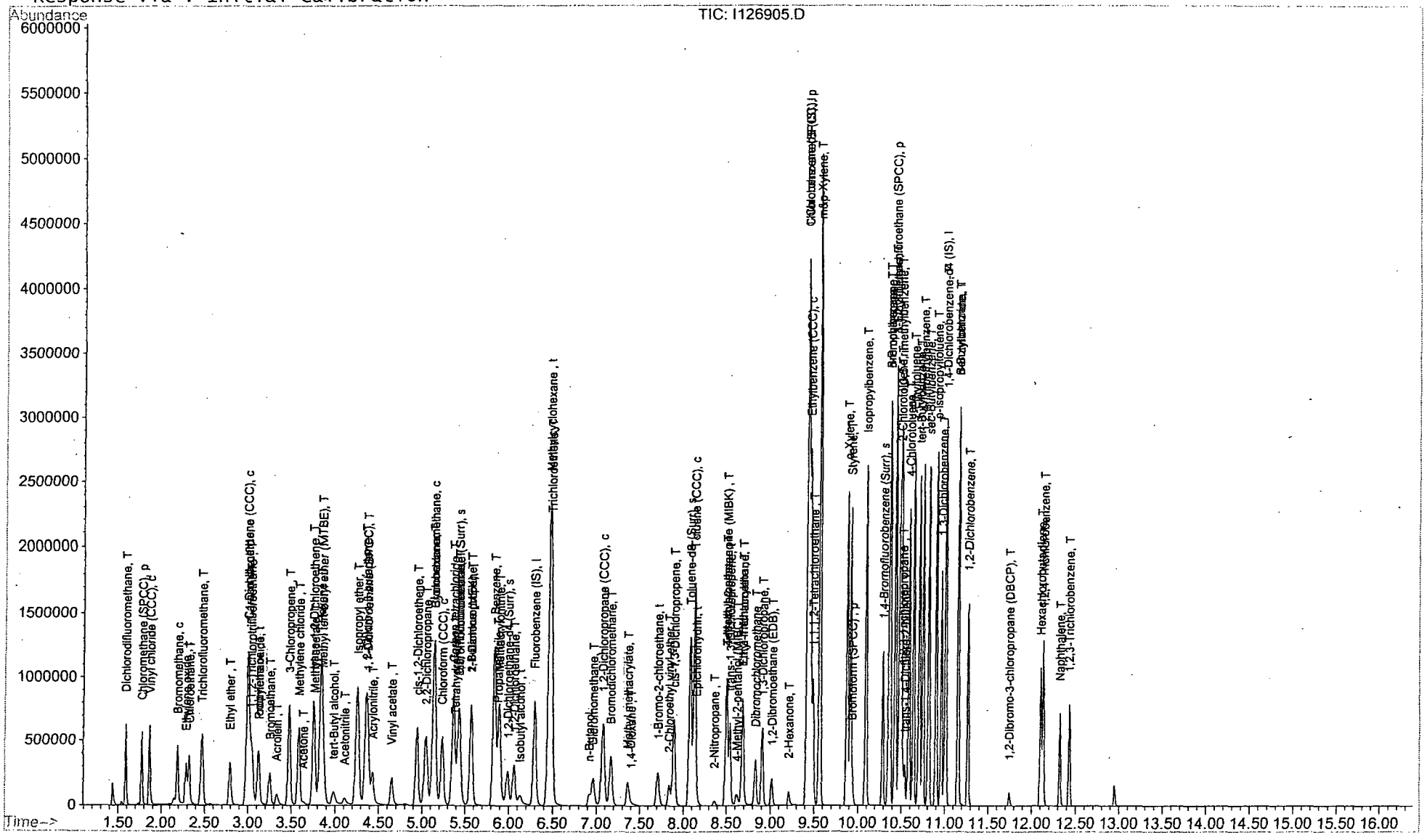
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126905.D
Acq On : 26 Jan 2009 7:20 am
Sample : BATCH-BSD1@1,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:13 19109

Vial: 5
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1-29-9

Data File : H:\MSI.I\I012609.B\I126906.D Vial: 6
Acq On : 26 Jan 2009 8:21 am Operator: DY
Sample : BATCH-MS1@1X MS,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:18 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Only worked up: Target Analytes

JAN 2 7 2009

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.29	96	896609	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	207524	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	283186	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	211705	16.1885 PPB	0.00
Spiked Amount 16.700			Recovery = 96.95%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	113632	15.2297 PPB	0.00
Spiked Amount 16.700			Recovery = 91.20%		
64) Toluene-d8 (Surr)	8.08	98	932173	18.1077 PPB	0.00
Spiked Amount 16.700			Recovery = 108.44%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	327516	16.8839 PPB	0.00
Spiked Amount 16.700			Recovery = 101.08%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	432833	21.8445 PPB	S 98
3) Chloromethane (SPCC)	1.77	50	468161	24.0964 PPB	S 99
4) Vinyl chloride (CCC)	1.86	62	512242	24.3869 PPB	S 100
5) Bromomethane	2.19	94	269792	24.6308 PPB	S 100
6) Ethylene oxide	2.29	44	269951	168.7550 PPB	99
7) Chloroethane	2.32	64	324818	22.8917 PPB	97
8) Trichlorofluoromethane	2.47	101	523825	24.0640 PPB	99
9) Ethyl ether	2.79	59	196678	17.6446 PPB	92
11) 1,1-Dichloroethene (CCC)	2.99	96	290058	21.5710 PPB	89
12) Carbon disulfide	3.00	76	1146701	24.2442 PPB	95
13) 1,1,2-Trichlorotrifluoroet	3.04	101	315086	24.3009 PPB	95
14) Propylene oxide	3.12	58	34633	21.8242 PPB	88
15) Iodomethane	3.13	142	362084	18.2805 PPB	92
16) Bromoethane	3.25	108	221593	20.3010 PPB	99
17) Acrolein	3.33	56	87760	113.9276 PPB	100
18) 3-Chloropropene	3.48	41	681626	25.0067 PPB	91
19) Methylene chloride	3.59	84	276554	18.0042 PPB	89
20) Acetone	3.64	58	10339	15.5885 PPB #	83
21) trans-1,2-Dichloroethene	3.75	96	332856	22.0610 PPB	92
22) Methyl acetate	3.77	74	49129	42.7122 PPB #	67
23) Hexane	3.84	86	125202	24.8836 PPB #	74
24) Methyl tert-butyl ether (M	3.86	73	518414	16.5380 PPB #	63
25) tert-Butyl alcohol	3.98	59	159761	262.2877 PPB	89
26) Acetonitrile	4.10	40	42164	77.7870 PPB	91
27) Isopropyl ether	4.26	45	1183946	21.3643 PPB	95
28) 2-Chloro-1,3-butadiene	4.35	88	274933	23.6434 PPB #	75
29) 1,1-Dichloroethane (SPCC)	4.38	63	646122	21.8564 PPB	99
30) Acrylonitrile	4.43	53	234959	83.3577 PPB	97
31) Vinyl acetate	4.65	43	370924	20.7428 PPB	95
32) cis-1,2-Dichloroethene	4.94	96	314950	19.8057 PPB	92
33) 2,2-Dichloropropane	5.05	77	486502	21.9462 PPB	85
34) Cyclohexane	5.14	56	734700	26.6862 PPB	89
35) Bromochloromethane	5.15	130	130150	17.4752 PPB #	83
37) Chloroform (CCC)	5.24	83	511592	20.0421 PPB	97
38) Carbon tetrachloride	5.36	117	409392	23.7097 PPB	99
41) Tetrahydrofuran	5.40	72	17685	17.1292 PPB #	87
43) 1,1,1-Trichloroethane	5.44	97	475667	22.2832 PPB	96
44) 1,1-Dichloropropene	5.57	75	499645	24.3505 PPB	86
45) 2-Butanone (MEK)	5.56	43	49890	15.3712 PPB	93
46) Benzene	5.84	78	1406104	21.7490 PPB	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126906.D Vial: 6
Acq On : 26 Jan 2009 8:21 am Operator: DY
Sample : BATCH-MS1@1X MS,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:18 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Propanenitrile	5.87	54	85162	80.3858	PPB		98
49)	Methacrylonitrile	5.89	67	286138	84.0186	PPB	#	78
51)	1,2-Dichloroethane	6.06	62	311093	19.9443	PPB		99
52)	Isobutyl alcohol	6.13	43	71324	234.6448	PPB		95
53)	Methylcyclohexane	6.47	83	1260942	64.9042	PPB		92
54)	Trichloroethene	6.49	130	316792	21.1421	PPB		95
55)	Dibromomethane	6.96	93	99773	17.7326	PPB		93
56)	n-Butanol	6.92	56	69416	374.8932	PPB		82
57)	1,2-Dichloropropane (CCC)	7.07	63	314934	20.8217	PPB		92
58)	Bromodichloromethane	7.17	83	344674	19.8649	PPB		98
59)	1,4-Dioxane	7.40	88	15529	230.0350	PPB		97
60)	Methyl methacrylate	7.37	69	84954	14.2954	PPB		77
61)	1-Bromo-2-chloroethane	7.71	63	286740	17.9445	PPB		99
62)	cis-1,3-Dichloropropene	7.89	75	430981	20.1617	PPB		87
63)	2-Chloroethyl vinyl ether	7.84	63	1384	0.3073	PPB	#	1
66)	Toluene (CCC)	8.13	91	1392313	19.8736	PPB		97
67)	Epichlorohydrin	8.16	57	48188	67.4822	PPB		78
68)	2-Nitropropane	8.36	43	26822	15.2441	PPB		92
69)	Tetrachloroethene	8.50	164	223981	19.3186	PPB		97
70)	4-Methyl-2-pentanone (MIBK	8.51	43	116756	16.5262	PPB		94
71)	trans-1,3-Dichloropropene	8.54	75	313454	17.3673	PPB		87
72)	1,1,2-Trichloroethane	8.68	97	147261	15.4170	PPB		96
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	48833	37.9981	PPB		83
74)	Ethyl methacrylate	8.69	69	191146	14.6080	PPB		81
75)	Dibromochloromethane	8.83	129	178915	17.3668	PPB		100
76)	1,3-Dichloropropane	8.91	76	313647	16.1638	PPB		87
77)	1,2-Dibromoethane (EDB)	9.02	107	133195	15.7727	PPB		99
78)	2-Hexanone	9.22	43	65329	15.0449	PPB		92
79)	Chlorobenzene (SPCC)	9.43	112	838037	19.4112	PPB		94
80)	1-Chlorohexane	9.42	55	409249	25.8950	PPB		91
81)	Ethylbenzene (CCC)	9.46	106	501386	20.4814	PPB		88
82)	1,1,1,2-Tetrachloroethane	9.49	131	243625	18.4368	PPB		99
83)	m&p-Xylene	9.57	106	1267504	41.7831	PPB		95
84)	o-Xylene	9.88	106	579560	20.6193	PPB		95
85)	Bromoform (SPCC)	9.94	173	79982	17.3666	PPB		99
86)	Styrene	9.91	104	876716	21.0586	PPB		96
87)	Isopropylbenzene	10.09	105	1518644	22.9263	PPB		98
88)	Bromobenzene	10.36	156	267627	18.9906	PPB	#	86
89)	n-Propylbenzene	10.37	120	386662	20.5966	PPB	#	86
90)	1,1,2,2-Tetrachloroethane	10.43	83	158119	15.9656	PPB		98
93)	2-Chlorotoluene	10.47	126	337370	20.5097	PPB		89
95)	1,2,3-Trichloropropane	10.52	110	46961	13.8354	PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	46519	18.5070	PPB		82
97)	3-Ethyltoluene	10.43	105	1487691	21.2488	PPB		98
98)	4-Chlorotoluene	10.58	126	330697	20.2779	PPB		90
99)	1,3,5-Trimethylbenzene	10.50	105	1215330	20.5547	PPB		69
100)	2-Ethyltoluene	10.63	105	1446647	20.3846	PPB		76
101)	tert-Butylbenzene	10.70	91	688604	21.2190	PPB		91
103)	1,2,4-Trimethylbenzene	10.74	105	1193126	20.1510	PPB		98
104)	sec-Butylbenzene	10.81	105	1642177	22.7375	PPB		97
105)	p-Isopropyltoluene	10.90	119	1308991	21.2069	PPB		97
106)	1,3-Dichlorobenzene	10.96	146	559024	19.0785	PPB		99
107)	1,4-Dichlorobenzene	11.02	146	565247	18.2222	PPB		98
108)	Benzyl chloride	11.16	126	48335	13.8168	PPB	#	16
109)	n-Butylbenzene	11.16	134	306108	21.2441	PPB		89

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126906.D Vial: 6
Acq On : 26 Jan 2009 8:21 am Operator: DY
Sample : BATCH-MS1@1X MS,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:18 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

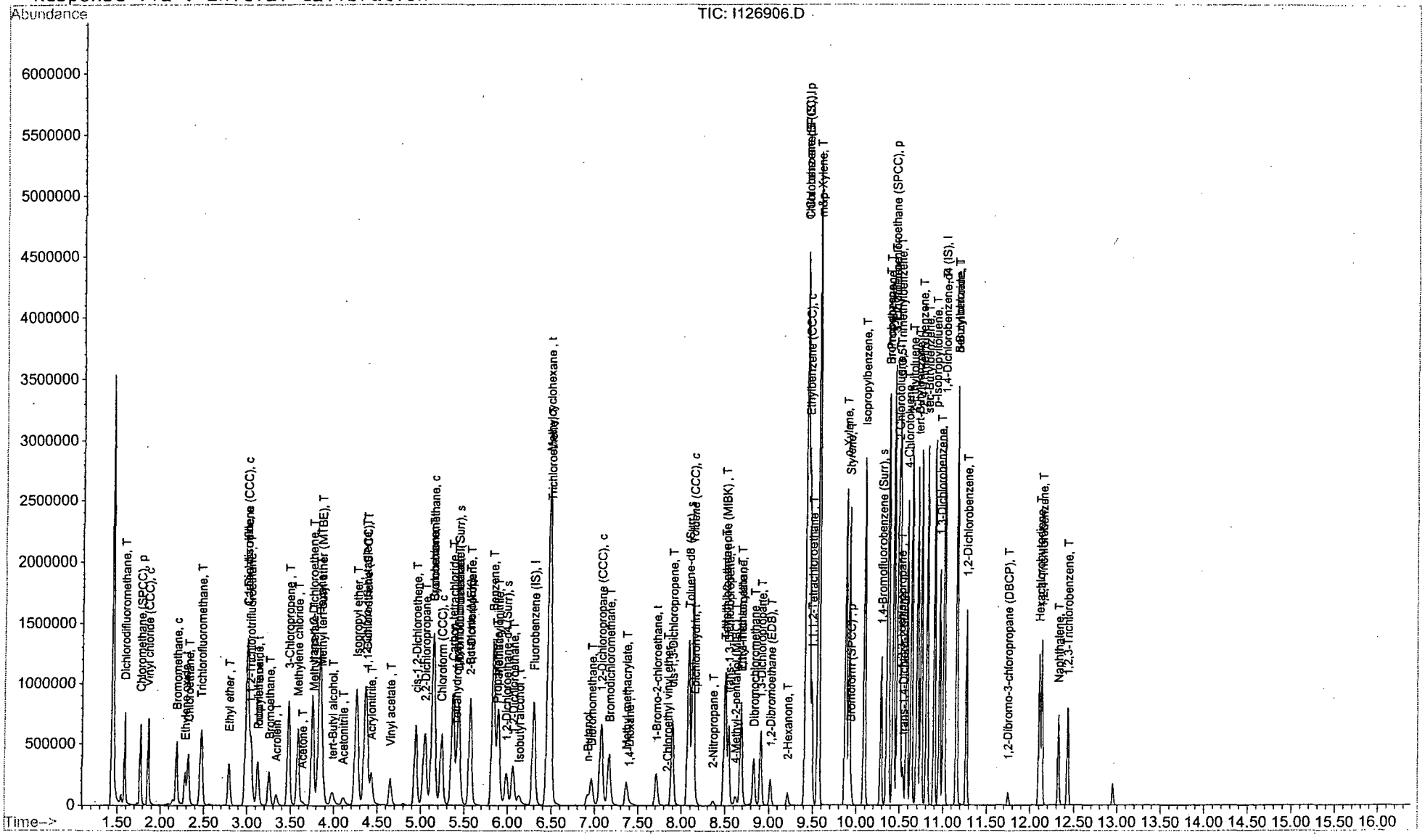
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
110) 1,2-Dichlorobenzene	11.27	146	440004	18.0552	PPB	99
112) 1,2-Dibromo-3-chloropropan	11.75	157	14710	11.5033	PPB	89
113) Hexachlorobutadiene	12.10	225	156588	21.1777	PPB	100
114) 1,2,4-Trichlorobenzene	12.14	180	264141	20.2965	PPB	100
115) Naphthalene	12.32	128	367468	19.4179	PPB	100
116) 1,2,3-Trichlorobenzene	12.43	180	171818	18.5922	PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : H:\MSI.I\I012609.B\I126906.D Vial: 6
Acq On : 26 Jan 2009 8:21 am Operator: DY
Sample : BATCH-MS1@1X MS,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:18 19109 Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1-29-9

Data File : H:\MSI.I\I012609.B\I126907.D Vial: 7
Acq On : 26 Jan 2009 8:48 am Operator: DY
Sample : BATCH-MSD1@1X MSD,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:48 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

JAN 2 7 2009

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	911243	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	212928	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	293390	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	222446	16.7367 PPB	0.00
Spiked Amount 16.700			Recovery	= 100.24%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	123535	16.2911 PPB	0.00
Spiked Amount 16.700			Recovery	= 97.54%	
64) Toluene-d8 (Surr)	8.08	98	961838	18.3839 PPB	0.00
Spiked Amount 16.700			Recovery	= 110.06%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	337797	16.9719 PPB	0.00
Spiked Amount 16.700			Recovery	= 101.62%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	449626	22.3276 PPB	S	98
3) Chloromethane (SPCC)	1.77	50	487157	24.6714 PPB	S	99
4) Vinyl chloride (CCC)	1.86	62	525035	24.5946 PPB	S	99
5) Bromomethane	2.19	94	289799	26.0325 PPB	S	99
6) Ethylene oxide	2.28	44	164493	101.1784 PPB		98
7) Chloroethane	2.32	64	339573	23.5473 PPB		97
8) Trichlorofluoromethane	2.47	101	536962	24.2713 PPB		99
9) Ethyl ether	2.79	59	219468	19.3729 PPB		93
11) 1,1-Dichloroethene (CCC)	2.99	96	302769	22.1546 PPB		90
12) Carbon disulfide	3.01	76	1149497	23.9130 PPB		95
13) 1,1,2-Trichlorotrifluoroet	3.04	101	323396	24.5412 PPB		96
14) Propylene oxide	3.12	58	1922	1.1917 PPB	#	13
15) Iodomethane	3.13	142	358397	17.8318 PPB		93
16) Bromoethane	3.25	108	224334	20.2220 PPB		100
17) Acrolein	3.34	56	99705	127.3557 PPB		99
18) 3-Chloropropene	3.48	41	694663	25.0757 PPB		92
19) Methylene chloride	3.59	84	291476	18.6709 PPB		88
20) Acetone	3.65	58	11301	16.7653 PPB	#	75
21) trans-1,2-Dichloroethene	3.75	96	342388	22.3284 PPB		93
22) Methyl acetate	3.77	74	56602	48.4189 PPB	#	76
23) Hexane	3.83	86	128785	25.1847 PPB	#	73
24) Methyl tert-butyl ether (M	3.86	73	588143	18.4611 PPB	#	75
25) tert-Butyl alcohol	3.98	59	219607	354.7499 PPB		90
26) Acetonitrile	4.11	40	50154	91.0416 PPB		92
27) Isopropyl ether	4.25	45	1275894	22.6538 PPB		95
28) 2-Chloro-1,3-butadiene	4.36	88	284166	24.0450 PPB	#	76
29) 1,1-Dichloroethane (SPCC)	4.38	63	667498	22.2169 PPB		99
30) Acrylonitrile	4.43	53	270452	94.4088 PPB		99
31) Vinyl acetate	4.65	43	411117	22.6213 PPB		95
32) cis-1,2-Dichloroethene	4.94	96	329507	20.3884 PPB		93
33) 2,2-Dichloropropane	5.05	77	498928	22.1453 PPB		85
34) Cyclohexane	5.14	56	760178	27.1682 PPB		90
35) Bromochloromethane	5.15	130	139602	18.4432 PPB	#	84
37) Chloroform (CCC)	5.24	83	533845	20.5780 PPB		97
38) Carbon tetrachloride	5.37	117	418198	23.8307 PPB		99
41) Tetrahydrofuran	5.39	72	20605	19.6369 PPB		90
43) 1,1,1-Trichloroethane	5.43	97	491254	22.6438 PPB		96
44) 1,1-Dichloropropene	5.57	75	511778	24.5412 PPB		86
45) 2-Butanone (MEK)	5.56	43	58917	17.8609 PPB		98
46) Benzene	5.84	78	1458611	22.1988 PPB		96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126907.D Vial: 7
Acq On : 26 Jan 2009 8:48 am Operator: DY
Sample : BATCH-MSD1@1X MSD,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:48 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Propanenitrile	5.87	54	102174	94.8949	PPB		98
49)	Methacrylonitrile	5.89	67	325400	94.0127	PPB	#	80
51)	1,2-Dichloroethane	6.06	62	336245	21.2106	PPB		99
52)	Isobutyl alcohol	6.13	43	101438	320.4111	PPB		97
53)	Methylcyclohexane	6.47	83	1285562	65.1088	PPB		93
54)	Trichloroethene	6.49	130	327079	21.4780	PPB		95
55)	Dibromomethane	6.96	93	108676	19.0047	PPB		93
56)	n-Butanol	6.92	56	110648	553.7626	PPB		85
57)	1,2-Dichloropropane (CCC)	7.08	63	333116	21.6701	PPB		92
58)	Bromodichloromethane	7.17	83	367397	20.8344	PPB		97
59)	1,4-Dioxane	7.41	88	25137	366.3809	PPB		92
60)	Methyl methacrylate	7.36	69	99661	16.3839	PPB		80
61)	1-Bromo-2-chloroethane	7.71	63	313975	19.3334	PPB		99
62)	cis-1,3-Dichloropropene	7.90	75	457852	21.0747	PPB		88
66)	Toluene (CCC)	8.13	91	1442176	20.0629	PPB		97
67)	Epichlorohydrin	8.16	57	52306	71.3900	PPB		82
68)	2-Nitropropane	8.37	43	31464	17.4285	PPB		95
69)	Tetrachloroethene	8.50	164	229228	19.2693	PPB		98
70)	4-Methyl-2-pentanone (MIBK	8.51	43	139210	19.2043	PPB		95
71)	trans-1,3-Dichloropropene	8.54	75	343582	18.5534	PPB		88
72)	1,1,2-Trichloroethane	8.68	97	162178	16.5478	PPB		96
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	67443	48.1046	PPB		87
74)	Ethyl methacrylate	8.69	69	218335	16.2201	PPB		82
75)	Dibromochloromethane	8.83	129	196487	18.5884	PPB		99
76)	1,3-Dichloropropane	8.91	76	343775	17.2669	PPB		87
77)	1,2-Dibromoethane (EDB)	9.02	107	146857	16.9492	PPB		98
78)	2-Hexanone	9.21	43	78813	17.6895	PPB		92
79)	Chlorobenzene (SPCC)	9.44	112	874983	19.7526	PPB		94
80)	1-Chlorohexane	9.43	55	420256	25.9180	PPB		92
81)	Ethylbenzene (CCC)	9.46	106	526175	20.9485	PPB		96
82)	1,1,1,2-Tetrachloroethane	9.49	131	260256	19.1955	PPB		99
83)	m&p-Xylene	9.57	106	1304010	41.8956	PPB		96
84)	o-Xylene	9.88	106	600454	20.8205	PPB		96
85)	Bromoform (SPCC)	9.94	173	87628	18.5439	PPB		100
86)	Styrene	9.91	104	922521	21.5964	PPB		97
87)	Isopropylbenzene	10.09	105	1567552	23.0640	PPB		98
88)	Bromobenzene	10.36	156	286286	19.7991	PPB	#	87
89)	n-Propylbenzene	10.37	120	402594	20.9010	PPB	#	88
90)	1,1,2,2-Tetrachloroethane	10.43	83	176952	17.4137	PPB		99
93)	2-Chlorotoluene	10.48	126	348325	20.4392	PPB		89
95)	1,2,3-Trichloropropane	10.51	110	51636	14.6837	PPB		98
96)	trans-1,4-Dichloro-2-buten	10.54	53	49693	19.0821	PPB		82
97)	3-Ethyltoluene	10.43	105	1526530	21.0452	PPB		98
98)	4-Chlorotoluene	10.59	126	343021	20.3021	PPB		91
99)	1,3,5-Trimethylbenzene	10.50	105	1235717	20.1726	PPB		68
100)	2-Ethyltoluene	10.64	105	1498376	20.3792	PPB		76
101)	tert-Butylbenzene	10.70	91	714488	21.2508	PPB		90
103)	1,2,4-Trimethylbenzene	10.75	105	1227268	20.0067	PPB		98
104)	sec-Butylbenzene	10.81	105	1661709	22.2078	PPB		97
105)	p-Isopropyltoluene	10.90	119	1337501	20.9151	PPB		97
106)	1,3-Dichlorobenzene	10.96	146	593166	19.5396	PPB		99
107)	1,4-Dichlorobenzene	11.01	146	602031	18.7330	PPB		99
108)	Benzyl chloride	11.16	126	51472	14.1147	PPB	#	27
109)	n-Butylbenzene	11.16	134	311417	20.8609	PPB		90
110)	1,2-Dichlorobenzene	11.27	146	472426	18.7114	PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126907.D Vial: 7
Acq On : 26 Jan 2009 8:48 am Operator: DY
Sample : BATCH-MSD1@1X MSD,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:48 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

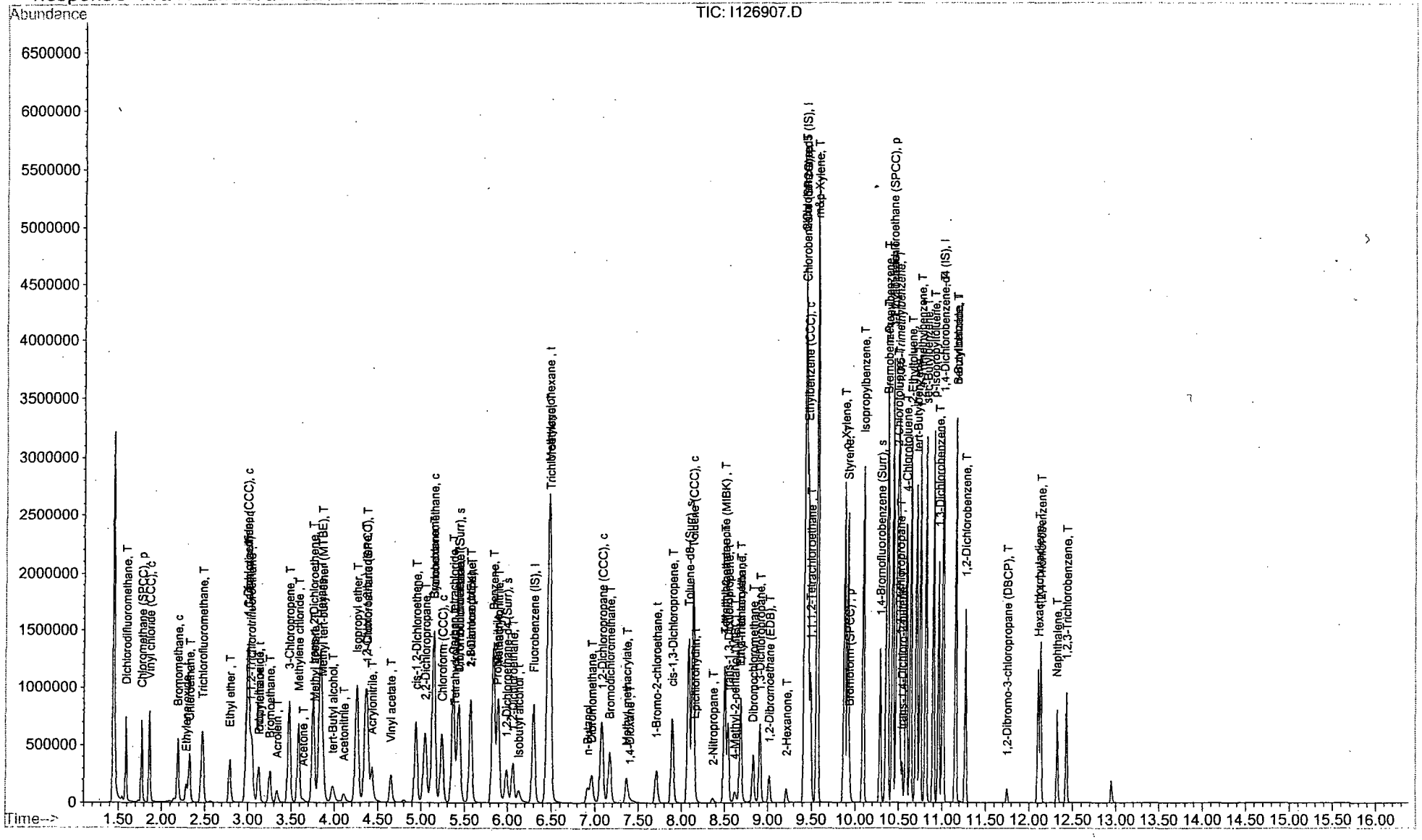
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
112) 1,2-Dibromo-3-chloropropan	11.75	157	17735	13.1620	PPB	91
113) Hexachlorobutadiene	12.11	225	155288	20.2714	PPB	99
114) 1,2,4-Trichlorobenzene	12.13	180	284596	21.1077	PPB	100
115) Naphthalene	12.32	128	416706	21.2539	PPB	100
116) 1,2,3-Trichlorobenzene	12.43	180	191011	19.9502	PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : H:\MSI.I\I012609.B\I126907.D Vial: 7
Acq On : 26 Jan 2009 8:48 am Operator: DY
Sample : BATCH-MSD1@1X MSD,REGC Inst : MSI
Misc : 9010191 4.2uL/42mL; VIALS 1-J,M,Q;G Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:48 19109 Quant Results File: I81104W.RES

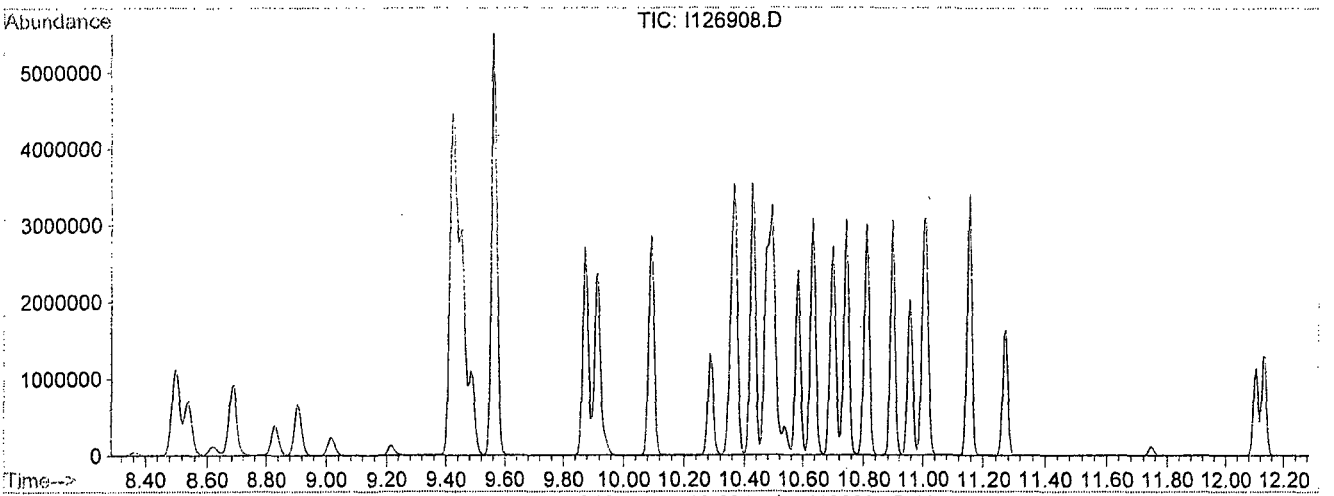
Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration

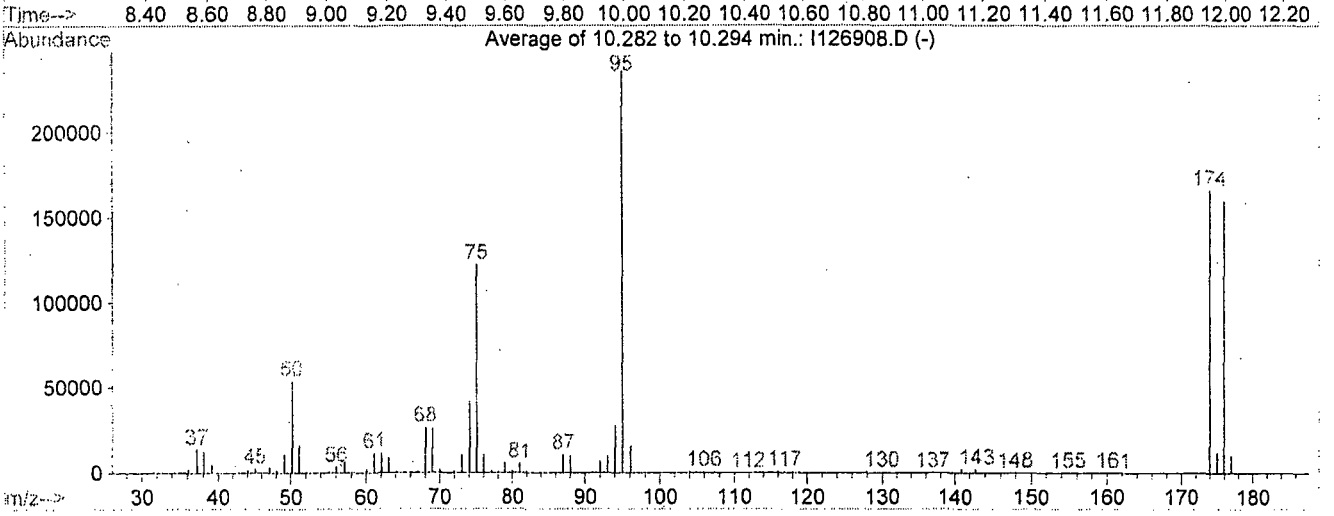


BFB

Data File : H:\MSI.I\I012609.B\I126908.D
Acq On : 26 Jan 2009 9:15 am
Sample : CCV,REG
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water

Vial: 8
Operator: DY
Inst : MSI
Multiplr: 1.00





AutoFind: Scans 1511, 1512, 1513; Background Corrected with Scan 1505

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	54027	PASS
75	95	30	60	51.8	122221	PASS
95	95	100	100	100.0	235819	PASS
96	95	5	9	6.8	15953	PASS
173	174	0.00	2	0.2	360	PASS
174	95	50	100	70.5	166221	PASS
175	174	5	9	7.0	11654	PASS
176	174	95	101	96.4	160245	PASS
177	176	5	9	6.4	10335	PASS

I126908.D I81104W.M Mon Jan 26 09:37:09 2009 MSI

CMB 1/30/09

Quantitation Report (QT Reviewed)

1-29-09 48/132

Data File : H:\MSI.I\I012609.B\I126908.D
Acq On : 26 Jan 2009 9:15 am
Sample : CCV,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:59 19109

Vial: 8
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

JAN 27 2009

Only worked up Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	924953	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	216076	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	300940	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	224719	16.6571 PPB	0.00
Spiked Amount 16.700			Recovery = 99.76%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	125694	16.3301 PPB	0.00
Spiked Amount 16.700			Recovery = 97.78%		
64) Toluene-d8 (Surr)	8.08	98	973973	18.3399 PPB	0.00
Spiked Amount 16.700			Recovery = 109.82%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	348975	17.2781 PPB	0.00
Spiked Amount 16.700			Recovery = 103.47%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	402734	19.7026 PPB	S	98
3) Chloromethane (SPCC)	1.77	50	443172	22.1112 PPB	S	99
4) Vinyl chloride (CCC)	1.86	62	482697	22.2761 PPB	S	100
5) Bromomethane	2.18	94	267810	23.7007 PPB	S	99
6) Ethylene oxide	2.28	44	395624	239.7384 PPB		99
7) Chloroethane	2.32	64	319861	21.8516 PPB		97
8) Trichlorofluoromethane	2.47	101	499976	22.2645 PPB		99
9) Ethyl ether	2.79	59	220867	19.2074 PPB		92
11) 1,1-Dichloroethene (CCC)	2.99	96	282209	20.3441 PPB		90
12) Carbon disulfide	3.01	76	1076929	22.0713 PPB		96
13) 1,1,2-Trichlorotrifluoroet	3.04	101	299960	22.4254 PPB		96
14) Propylene oxide	3.12	58	148211	90.5342 PPB		91
15) Iodomethane	3.13	142	352611	17.3169 PPB		93
16) Bromoethane	3.25	108	222853	19.7908 PPB		100
17) Acrolein	3.33	56	104251	131.1886 PPB		100
18) 3-Chloropropene	3.47	41	670219	23.8347 PPB		92
19) Methylene chloride	3.58	84	290454	18.3297 PPB		89
20) Acetone	3.64	58	12258	17.9154 PPB	#	81
21) trans-1,2-Dichloroethene	3.75	96	327479	21.0395 PPB		93
22) Methyl acetate	3.77	74	59108	49.8132 PPB	#	68
23) Hexane	3.83	86	118222	22.7764 PPB	#	71
24) Methyl tert-butyl ether (M	3.86	73	603998	18.6778 PPB		87
25) tert-Butyl alcohol	3.99	59	249372	396.8609 PPB		90
26) Acetonitrile	4.11	40	49870	89.1842 PPB		92
27) Isopropyl ether	4.26	45	1272913	22.2658 PPB		95
28) 2-Chloro-1,3-butadiene	4.36	88	269091	22.4319 PPB	#	78
29) 1,1-Dichloroethane (SPCC)	4.38	63	643479	21.1000 PPB		100
30) Acrylonitrile	4.43	53	276908	95.2297 PPB		98
31) Vinyl acetate	4.65	43	431725	23.4031 PPB		95
32) cis-1,2-Dichloroethene	4.94	96	322236	19.6430 PPB		93
33) 2,2-Dichloropropane	5.04	77	472690	20.6697 PPB		86
34) Cyclohexane	5.14	56	700689	24.6709 PPB		90
35) Bromochloromethane	5.15	130	142190	18.5067 PPB		84
37) Chloroform (CCC)	5.24	83	510946	19.4034 PPB		98
38) Carbon tetrachloride	5.37	117	397911	22.3386 PPB		100
41) Tetrahydrofuran	5.40	72	20822	19.5496 PPB	#	85
43) 1,1,1-Trichloroethane	5.44	97	466055	21.1638 PPB		97
44) 1,1-Dichloropropene	5.57	75	482618	22.7999 PPB		87
45) 2-Butanone (MEK)	5.56	43	64735	19.3338 PPB		88
46) Benzene	5.83	78	1412955	21.1852 PPB		96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126908.D Vial: 8
Acq On : 26 Jan 2009 9:15 am Operator: DY
Sample : CCV,REGC Inst : MSI
Misc : 9010191 5uL/50mL Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Jan 27 12:59 19109 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Propanenitrile	5.87	54	104091	95.2424	PPB		87
49)	Methacrylonitrile	5.89	67	337678	96.1139	PPB		82
51)	1,2-Dichloroethane	6.07	62	339242	21.0825	PPB		99
52)	Isobutyl alcohol	6.13	43	114690	354.6349	PPB		96
53)	Methylcyclohexane	6.47	83	1196221	59.6860	PPB		93
54)	Trichloroethene	6.49	130	315745	20.4264	PPB		96
55)	Dibromomethane	6.97	93	111286	19.1727	PPB		93
56)	n-Butanol	6.92	56	135497	655.6476	PPB		88
57)	1,2-Dichloropropane (CCC)	7.08	63	330064	21.1533	PPB		92
58)	Bromodichloromethane	7.17	83	355164	19.8422	PPB		98
59)	1,4-Dioxane	7.40	88	29713	426.6585	PPB		92
60)	Methyl methacrylate	7.37	69	103538	16.7511	PPB		79
61)	1-Bromo-2-chloroethane	7.71	63	319145	19.3604	PPB		98
62)	cis-1,3-Dichloropropene	7.90	75	469591	21.2947	PPB		88
63)	2-Chloroethyl vinyl ether	7.84	63	91065	19.6008	PPB		94
66)	Toluene (CCC)	8.13	91	1402109	19.2214	PPB		98
67)	Epichlorohydrin	8.16	57	62086	83.5037	PPB		96
68)	2-Nitropropane	8.37	43	33800	18.4497	PPB		95
69)	Tetrachloroethene	8.50	164	221453	18.3446	PPB		98
70)	4-Methyl-2-pentanone (MIBK	8.51	43	144597	19.6569	PPB		94
71)	trans-1,3-Dichloropropene	8.54	75	348409	18.5400	PPB		88
72)	1,1,2-Trichloroethane	8.68	97	166145	16.7056	PPB		96
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	83984	57.0332	PPB		89
74)	Ethyl methacrylate	8.69	69	227803	16.6664	PPB		83
75)	Dibromochloromethane	8.83	129	193779	18.0651	PPB		99
76)	1,3-Dichloropropane	8.91	76	352024	17.4236	PPB		88
77)	1,2-Dibromoethane (EDB)	9.02	107	150105	17.0716	PPB		100
78)	2-Hexanone	9.22	43	83332	18.4313	PPB		94
79)	Chlorobenzene (SPCC)	9.44	112	864765	19.2375	PPB		96
80)	1-Chlorohexane	9.42	55	389354	23.5288	PPB		91
81)	Ethylbenzene (CCC)	9.45	106	507995	19.9301	PPB		93
82)	1,1,1,2-Tetrachloroethane	9.48	131	260871	18.9606	PPB		99
83)	m&p-Xylene	9.56	106	1274208	40.3417	PPB		96
84)	o-Xylene	9.87	106	590640	20.1818	PPB		96
85)	Bromoform (SPCC)	9.94	173	87666	18.2817	PPB		100
86)	Styrene	9.92	104	918205	21.1822	PPB		96
87)	Isopropylbenzene	10.09	105	1519721	22.0345	PPB		98
88)	Bromobenzene	10.36	156	288953	19.6924	PPB	#	88
89)	n-Propylbenzene	10.37	120	390038	19.9541	PPB		89
90)	1,1,2,2-Tetrachloroethane	10.43	83	183615	17.8062	PPB		98
93)	2-Chlorotoluene	10.48	126	341166	19.5169	PPB		90
95)	1,2,3-Trichloropropane	10.51	110	54611	15.1401	PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	54770	20.5041	PPB		83
97)	3-Ethyltoluene	10.43	105	1484463	19.9518	PPB		98
98)	4-Chlorotoluene	10.59	126	338777	19.5479	PPB		94
99)	1,3,5-Trimethylbenzene	10.49	105	1204781	19.1742	PPB		68
100)	2-Ethyltoluene	10.63	105	1465372	19.4303	PPB		76
101)	tert-Butylbenzene	10.70	91	685957	19.8904	PPB		90
103)	1,2,4-Trimethylbenzene	10.74	105	1210290	19.2350	PPB		98
104)	sec-Butylbenzene	10.81	105	1582697	20.6212	PPB		98
105)	p-Isopropyltoluene	10.90	119	1288641	19.6455	PPB		97
106)	1,3-Dichlorobenzene	10.96	146	586946	18.8497	PPB		99
107)	1,4-Dichlorobenzene	11.01	146	597806	18.1349	PPB		99
108)	Benzyl chloride	11.16	126	55300	14.6356	PPB	#	46
109)	n-Butylbenzene	11.16	134	300190	19.6044	PPB		89

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Data File : H:\MSI.I\I012609.B\I126908.D
Acq On : 26 Jan 2009 9:15 am
Sample : CCV,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:59 19109

Vial: 8
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
110) 1,2-Dichlorobenzene	11.27	146	475901	18.3761 PPB	99
112) 1,2-Dibromo-3-chloropropan	11.75	157	17858	12.9459 PPB	91
113) Hexachlorobutadiene	12.11	225	149069	18.9714 PPB	100
114) 1,2,4-Trichlorobenzene	12.14	180	288083	20.8302 PPB	100
115) Naphthalene	12.33	128	431962	21.4793 PPB	100
116) 1,2,3-Trichlorobenzene	12.43	180	194628	19.8180 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

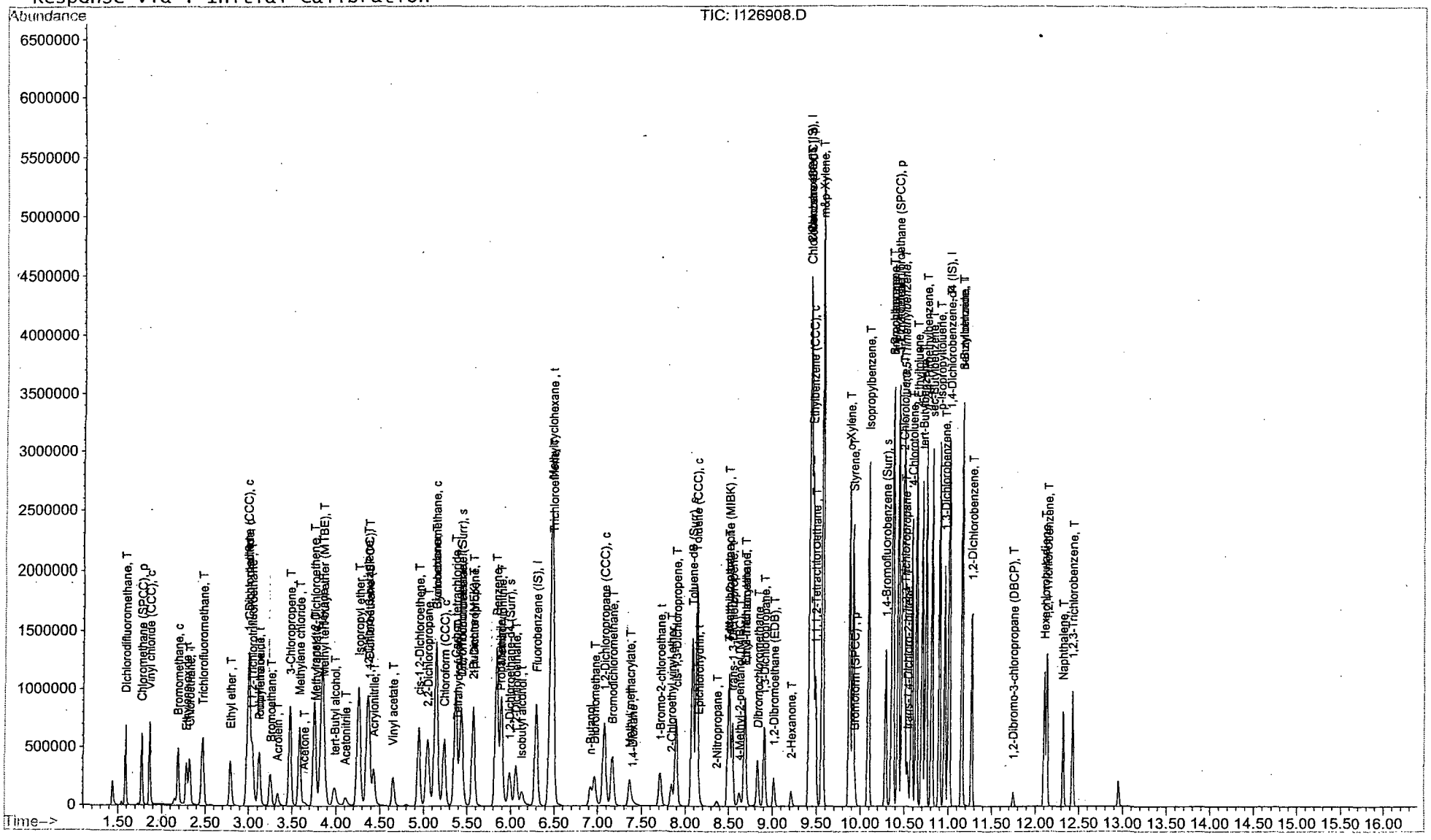
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126908.D
Acq On : 26 Jan 2009 9:15 am
Sample : CCV,REGC
Misc : 9010191 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 12:59 19109

Vial: 8
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

1-29-09

Data File : H:\MSI.I\I012609.B\I126911.D
Acq On : 26 Jan 2009 10:37 am
Sample : BATCH-BLK1@1,REGC
Misc : 1,1, 9010225 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 13:09 19109

Vial: 11
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:49:50 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

JAN 27 2009

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	864731	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	186995	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	252378	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	198093	15.7061 PPB	0.00
Spiked Amount 16.700			Recovery	= 94.07%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	110828	15.4015 PPB	0.00
Spiked Amount 16.700			Recovery	= 92.22%	
64) Toluene-d8 (Surr)	8.08	98	892663	17.9795 PPB	0.00
Spiked Amount 16.700			Recovery	= 107.66%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	305942	17.5032 PPB	0.00
Spiked Amount 16.700			Recovery	= 104.79%	

Target Compounds						Qvalue
5) Bromomethane	2.19	94	2670	0.2527 PPB	S	97
6) Ethylene oxide	2.25	44	4407	2.8565 PPB		83
10) Ethanol	2.88	45	419	5.6776 PPB	#	19

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

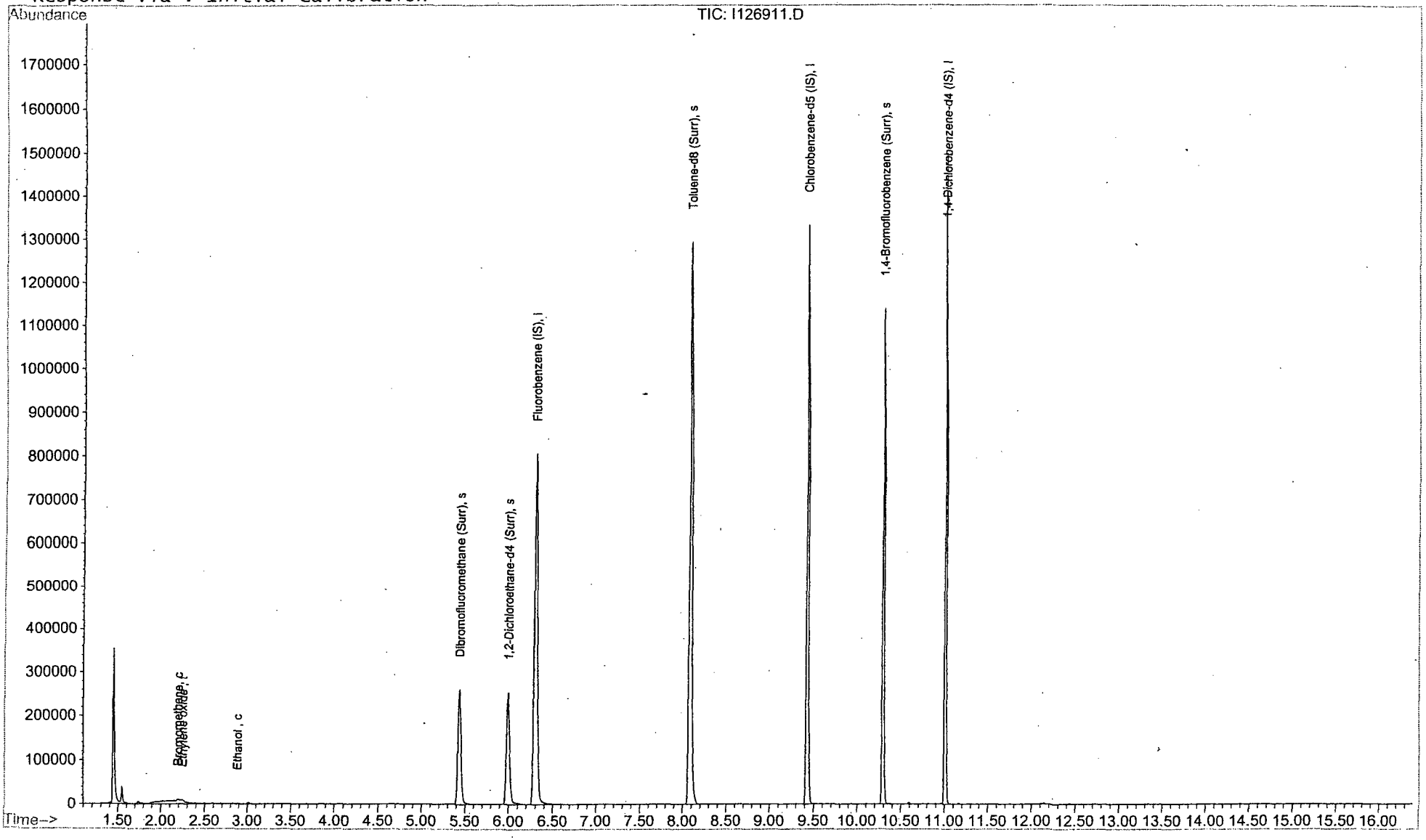
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126911.D
Acq On : 26 Jan 2009 10:37 am
Sample : BATCH-BLK1@1,REGC
Misc : 1,1, 9010225 5uL/50mL
MS Integration Params: VOA.P
Quant Time: Jan 27 13:09 19109

Vial: 11
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1-29-09 54/132

Data File : H:\MSI.I\I012609.B\I126912.D
Acq On : 26 Jan 2009 11:04 am
Sample : ASA0148-01 0@1X ,REGC
Misc : VIALS 1-J,M,Q;G
MS Integration Params: VOA.P
Quant Time: Jan 27 13:10 19109

Vial: 12
Operator: DY
Inst : MSI
Multiplr: 1.00

Parent

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:49:50 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

JAN 2 7 2009

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	830237	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	174391	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	229035	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	207593	17.1431 PPB	0.00
Spiked Amount 16.700			Recovery	= 102.63%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	110623	16.0117 PPB	0.00
Spiked Amount 16.700			Recovery	= 95.87%	
64) Toluene-d8 (Surr)	8.08	98	853383	17.9025 PPB	0.00
Spiked Amount 16.700			Recovery	= 107.19%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	288027	17.6692 PPB	0.00
Spiked Amount 16.700			Recovery	= 105.81%	

Target Compounds						Qvalue
5) Bromomethane	2.20	94	2358	0.2325 PPB	S	91
6) Ethylene oxide	2.26	44	4185	2.8253 PPB		74
20) Acetone	3.65	58	546	0.8890 PPB	#	11
37) Chloroform (CCC)	5.24	83	11091	0.4692 PPB		96
58) Bromodichloromethane	7.17	83	7938	0.4941 PPB		93
75) Dibromochloromethane	8.83	129	6968	0.8049 PPB		98
85) Bromoform (SPCC)	9.94	173	2260	0.5839 PPB		98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

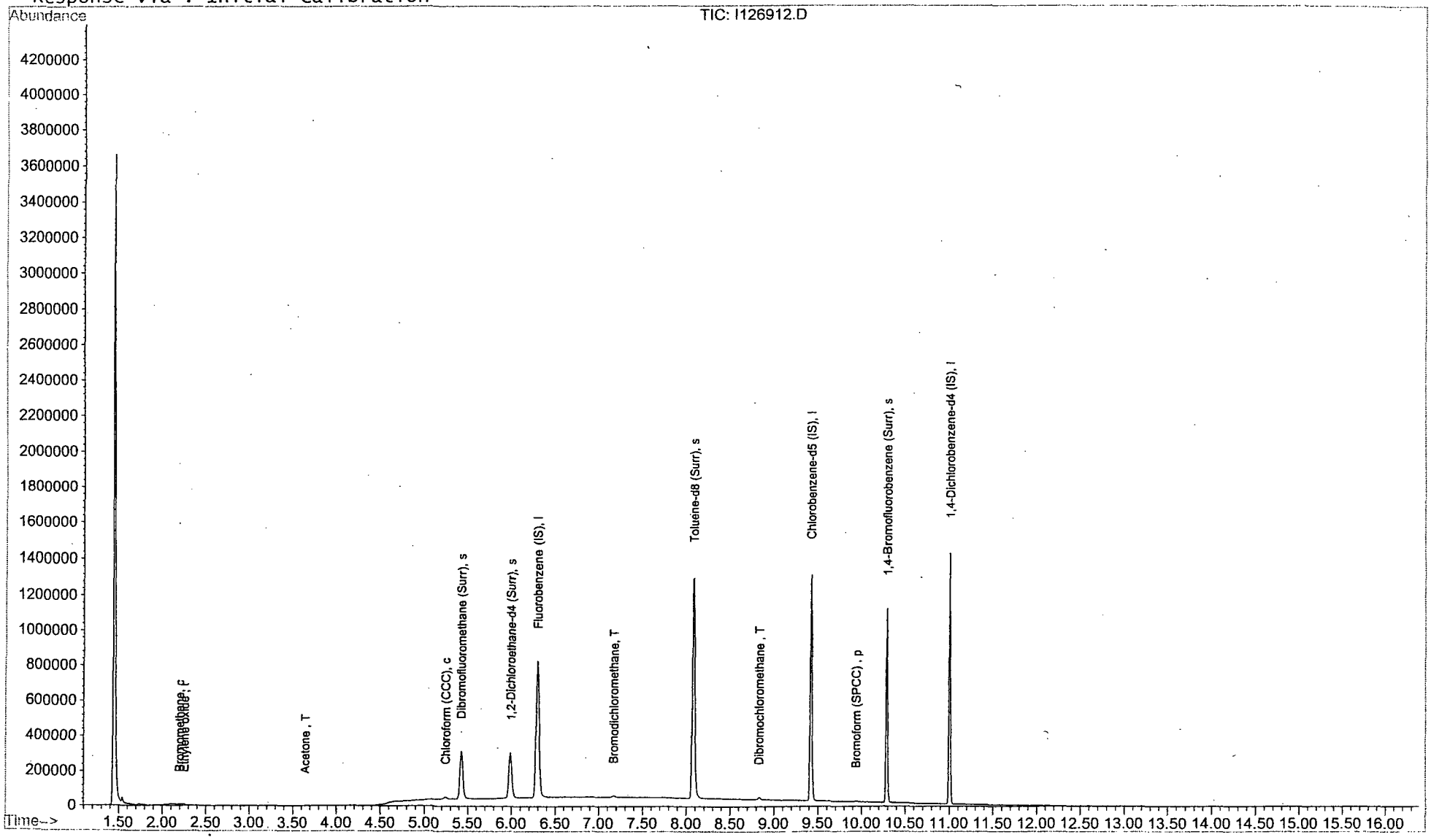
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126912.D
Acq On : 26 Jan 2009 11:04 am
Sample : ASA0148-01 0@1X ,REGC
Misc : VIALS 1-J,M,Q;G
MS Integration Params: VOA.P
Quant Time: Jan 27 13:10 19109

Vial: 12
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) 1-2:56/132

Data File : H:\MSI.I\I012609.B\I126913.D
Acq On : 26 Jan 2009 11:32 am
Sample : ASA0086-01 @1X A,REGC
Misc :
MS Integration Params: VOA.P
Quant Time: Jan 29 13:56 19109

Vial: 13
Operator: DY
Inst : MSI
Multiplr: 1.00

Only worked up: Target Analytes

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:49:50 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Cis ↑ RR data file 32

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	786284	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	171658	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	233481	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	191791	16.7235 PPB	0.00
Spiked Amount 16.700			Recovery	= 100.12%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	110444	16.8794 PPB	0.00
Spiked Amount 16.700			Recovery	= 101.08%	
64) Toluene-d8 (Surr)	8.08	98	819113	18.1441 PPB	0.00
Spiked Amount 16.700			Recovery	= 108.62%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	291544	18.1697 PPB	0.00
Spiked Amount 16.700			Recovery	= 108.80%	

Target Compounds					Qvalue
4) Vinyl chloride (CCC)	1.86	62	5839	0.3170 PPB # S	1
5) Bromomethane	2.19	94	2934	0.3054 PPB S	98
11) 1,1-Dichloroethene (CCC)	2.99	96	17221	1.4604 PPB	88
12) Carbon disulfide	3.00	76	47447m	1.1439 PPB	
20) Acetone	3.65	58	569	0.9783 PPB #	23
21) trans-1,2-Dichloroethene	3.75	96	7024	0.5309 PPB	92
29) 1,1-Dichloroethane (SPCC)	4.38	63	588627	22.7053 PPB	100
32) cis-1,2-Dichloroethene	4.94	96	1741037	124.8479 PPB	93
43) 1,1,1-Trichloroethane	5.44	97	14253	0.7614 PPB	94
46) Benzene	5.83	78	86547	1.5265 PPB	96
51) 1,2-Dichloroethane	6.07	62	7945	0.5808 PPB	97
54) Trichloroethene	6.49	130	473074	36.0019 PPB	95
57) 1,2-Dichloropropane (CCC)	7.08	63	3820	0.2880 PPB	79
66) Toluene (CCC)	8.13	91	44668	0.7708 PPB	98
69) Tetrachloroethene	8.50	164	4980	0.5193 PPB	96
87) Isopropylbenzene	10.10	105	14251	0.2601 PPB	97
95) 1,2,3-Trichloropropane	10.51	110	14960	5.3457 PPB	99

Only worked up: Target Analytes

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

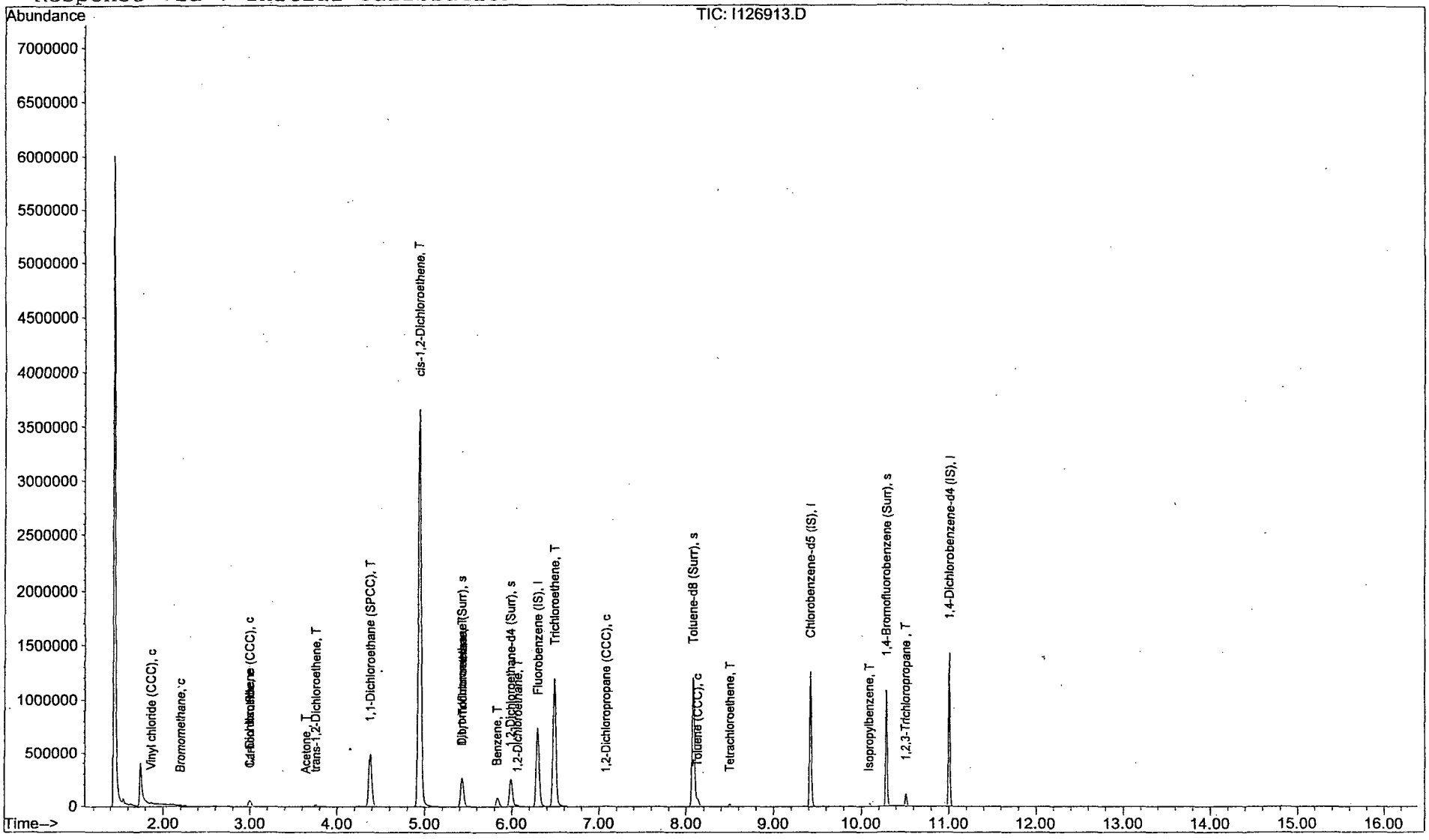
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126913.D
Acq On : 26 Jan 2009 11:32 am
Sample : ASA0086-01 @1X A,REGC
Misc :
MS Integration Params: VOA.P
Quant Time: Jan 29 13:56 19109

Vial: 13
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



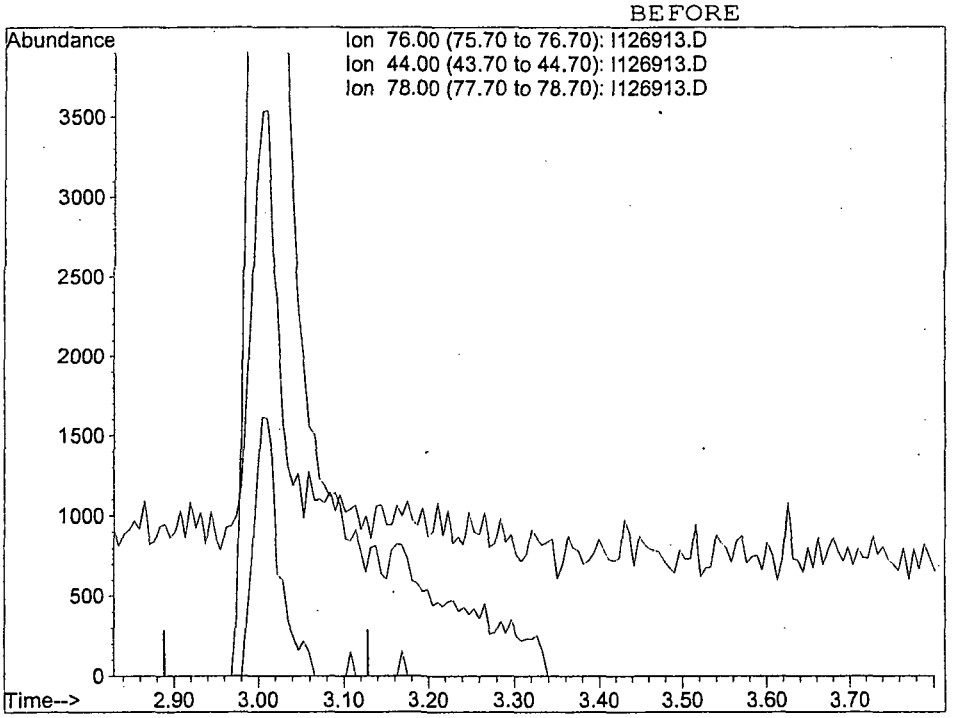
Carbon disulfide 1-29-09 I126913.D

REASON FOR MANUAL INTEGRATION:

TAILING WRONG PEAK TWO PEAKS POOR INTEGRATION MISSED OTHER

ANALYST: DY Thu Jan 29 13:56:22 2009

BEFORE



TIC: I126913.D

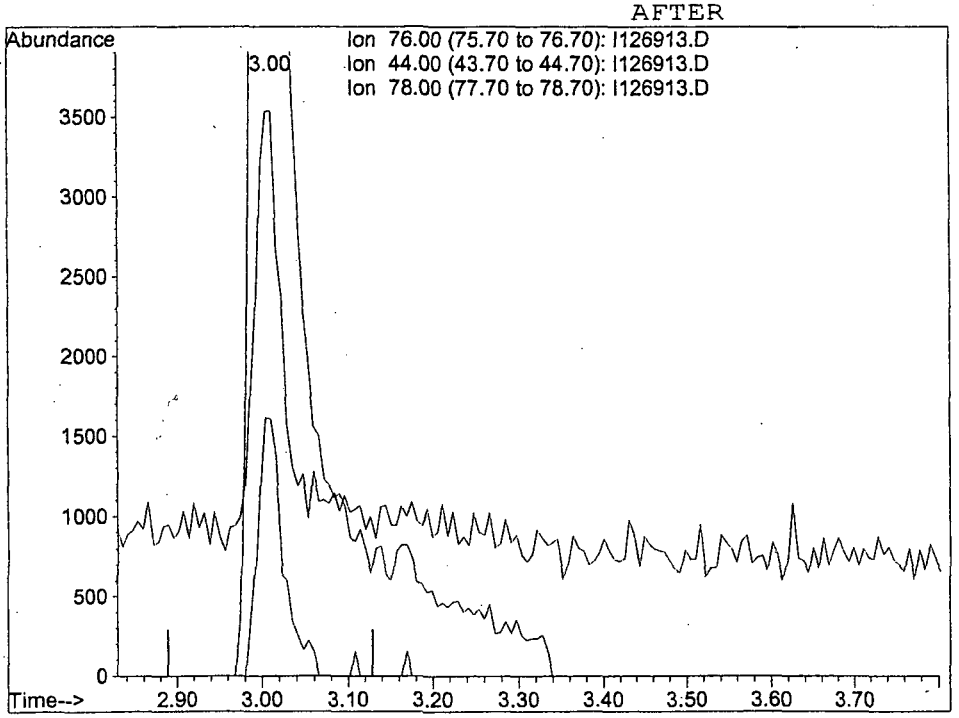
(12) Carbon disulfide (c)

3.01min 0.00PPB d

response 0

Ion	Exp%	Act%
76.00	100	0.00
44.00	12.50	0.00
78.00	9.70	0.00
0.00	0.00	0.00

AFTER



TIC: I126913.D

(12) Carbon disulfide (c)

3.00min 1.14PPB m

response 47447

Ion	Exp%	Act%
76.00	100	100
44.00	12.50	13.24
78.00	9.70	7.09
0.00	0.00	0.00

1/30/09

Quantitation Report (QT Reviewed)

1-29-9 [illegible]

Data File : H:\MSI.I\I012609.B\I126914.D
Acq On : 26 Jan 2009 11:59 am
Sample : ASA0086-02 @1X A,REGC
Misc :
MS Integration Params: VOA.P
Quant Time: Jan 27 13:39 19109

Vial: 14
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:49:50 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

JAN 2 7 2009

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	771905	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	171111	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	231332	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	189055	16.7920 PPB	0.00
Spiked Amount 16.700			Recovery	= 100.54%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	110807	17.2504 PPB	0.00
Spiked Amount 16.700			Recovery	= 103.29%	
64) Toluene-d8 (Surr)	8.08	98	812478	18.3324 PPB	0.00
Spiked Amount 16.700			Recovery	= 109.76%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	284785	17.8052 PPB	0.00
Spiked Amount 16.700			Recovery	= 106.65%	
Target Compounds					Qvalue
12) Carbon disulfide	3.01	76	25008	0.6142 PPB	91
20) Acetone	3.64	58	1319	2.3100 PPB #	8

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

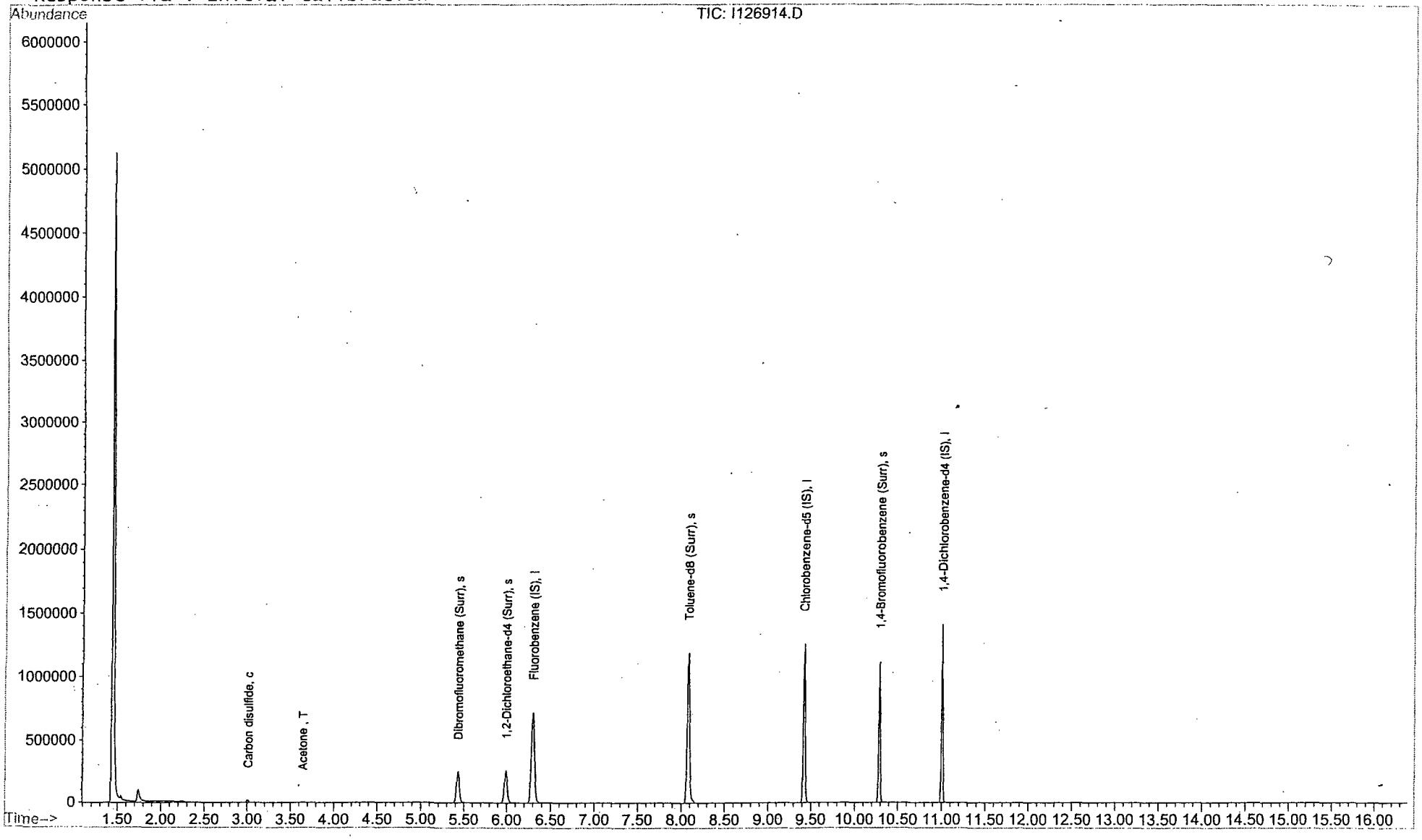
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126914.D
Acq On : 26 Jan 2009 11:59 am
Sample : ASA0086-02 @1X A,REGC
Misc :
MS Integration Params: VOA.P
Quant Time: Jan 27 13:39 19109

Vial: 14
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

1-29-9 DY

Data File : H:\MSI.I\I012609.B\I126915.D
Acq On : 26 Jan 2009 12:26 pm
Sample : ASA0086-03 @1X A,REGC
Misc :
MS Integration Params: VOA.P
Quant Time: Jan 27 13:40 19109

Vial: 15
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:49:50 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Only worked up: Target Analytes

JAN 27 2009

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	754020	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	162460	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	216689	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	179221	16.2962 PPB	0.00
Spiked Amount 16.700			Recovery = 97.60%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	102397	16.3192 PPB	0.00
Spiked Amount 16.700			Recovery = 97.72%		
64) Toluene-d8 (Surr)	8.08	98	783265	18.0924 PPB	0.00
Spiked Amount 16.700			Recovery = 108.32%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	267128	17.5906 PPB	0.00
Spiked Amount 16.700			Recovery = 105.33%		
Target Compounds					Qvalue
6) Ethylene oxide	2.26	44	5213	3.8751 PPB	70
20) Acetone	3.65	58	584	1.0470 PPB #	21

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

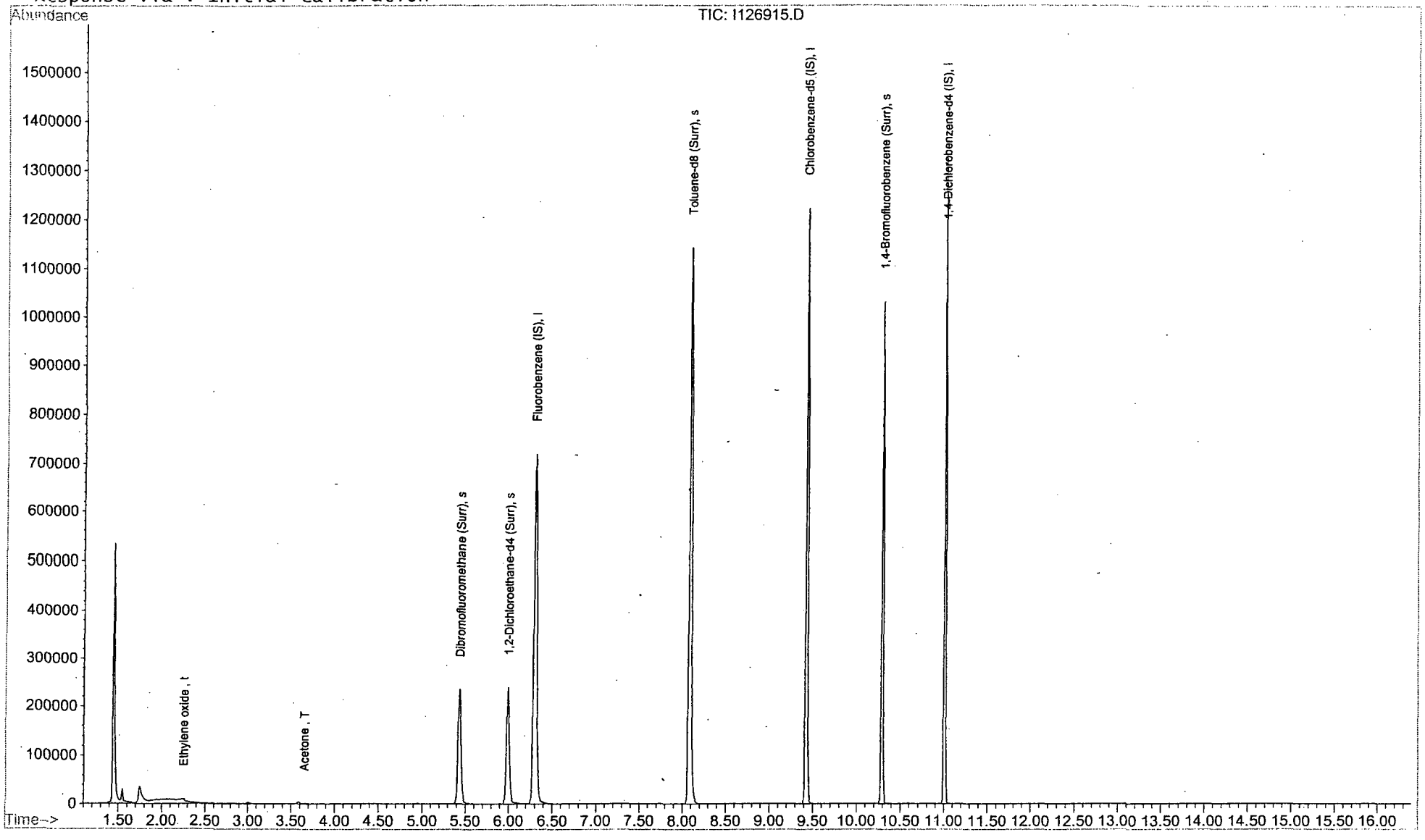
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126915.D
Acq On : 26 Jan 2009 12:26 pm
Sample : ASA0086-03 @1X A,REGC
Misc :
MS Integration Params: VOA.P
Quant Time: Jan 27 13:40 19109

Vial: 15
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) 1-2663/132

Data File : H:\MSI.I\I012609.B\I126932.D
Acq On : 26 Jan 2009 8:17 pm
Sample : ASA0086-01RE1 @2X A,REGC
Misc : CIS-D
MS Integration Params: VOA.P
Quant Time: Jan 29 14:08 19109

Vial: 32
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:49:50 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Cis only - D

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	637190	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	140199	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	185347	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	157062	16.8998 PPB	0.00
Spiked Amount 16.700			Recovery	= 101.20%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	94008	17.7293 PPB	0.00
Spiked Amount 16.700			Recovery	= 106.17%	
64) Toluene-d8 (Surr)	8.08	98	678121	18.5357 PPB	0.00
Spiked Amount 16.700			Recovery	= 111.02%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	236973	18.0827 PPB	0.00
Spiked Amount 16.700			Recovery	= 108.26%	
Target Compounds					Qvalue
32) cis-1,2-Dichloroethene	4.94	96	644137 D	56.9983 PPB	89 ✓

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

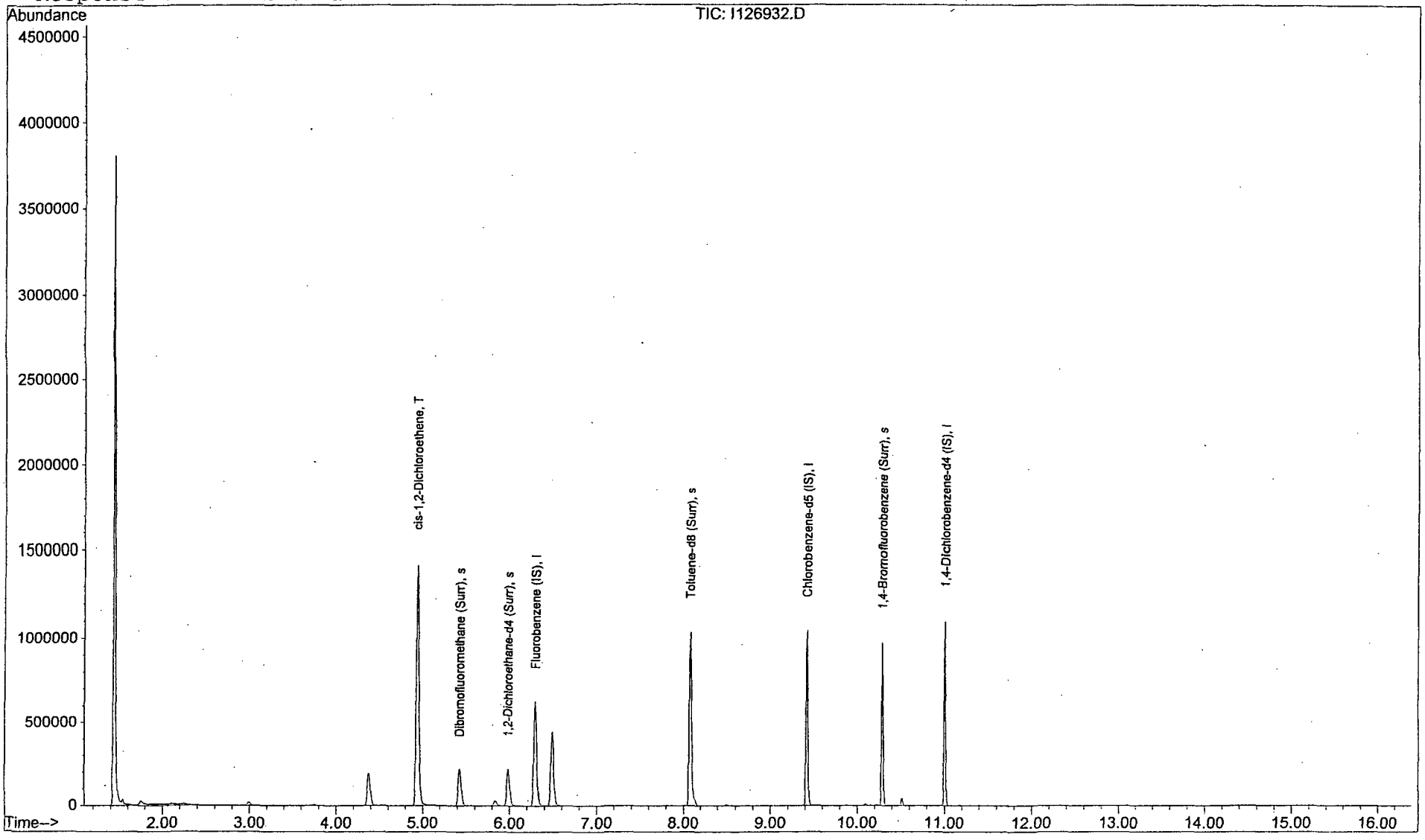
Quantitation Report

Data File : H:\MSI.I\I012609.B\I126932.D
Acq On : 26 Jan 2009 8:17 pm
Sample : ASA0086-01RE1 @2X A,REGC
Misc : CIS-D
MS Integration Params: VOA.P
Quant Time: Jan 29 14:08 19109

Vial: 32
Operator: DY
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Tue Nov 11 14:35:13 2008
Response via : Initial Calibration



CALIBRATION DATA

TestAmerica Austin

INITIAL CALIBRATION REVIEW FORM

Instrument	MS I
Date Analyzed	11/4/08
Matrix	W

	Analyst check	Peer Reviewer check
Checked to be sure all CCC and SPCC compounds pass criteria.	✓	✓
Checked to be sure all other compounds pass one of the following criteria: RSD<15 for Avg RF, r^2>=0.990 for linear, r^2 >=0.990 for quadratic(minimum 6 points)	~~NA~~ ✓	✓
Checked to be sure correct levels were used (i.e. none inappropriately skipped).	✓	✓
Checked to be sure that there are at least 5 points for each compound.	✓	✓
Checked to be sure the internal standard concentration is correct (i.e. 16.7 for waters, 50.0 for soils).	✓	✓
Checked to be sure that lowest point matches SOP PQL.	✓	✓
Checked INITIAL CALIBRATION CHECK FORM to be sure all analytes were picked up (i.e. there were no RT values of 0).	✓	✓
Checked INITIAL CALIBRATION CHECK FORM to be sure all isomers have unique RTs (i.e. no analytes at same RT with same primary ion).	✓	✓
Checked that the quant reports for manually-integrated compounds are in the folder and the area counts match those in the method.	NA	N/A
If additional compound(s) calibrated for separately, be sure they use appropriate additional levels (e.g. 1a,2a,3a,4a,5a).	NA	N/A
Included a tune file and sequence file in the ICAL folder.	✓	✓
Included a list of compounds form (shows fit) and plots for those analytes using linear regression (if applicable).	✓	✓
Print ICV form for data folder and instrument. Write NCM for failing ICVs and print NCM for data folder. NCM# 09-0025349	✓	✓
Ran CALEXCEL and saved .xls file in data subdirectory.	✓	✓
Copy Data for Curve Date to Appropriate "DataForCurrentCurve" folder	✓	✓
Verify that (CCV and LCS) macro forms are picking up all analytes	✓	✓
Initial/Date	KA 11/6/08	BM 11/10/08

****If new analyst or reviewing a new analyst, please take extra time and care.****

Notes:

Clouseau Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **09-0025349**
NCM Initiated By: Brian Peterson
Date Opened: 11/10/2008
Date Closed:

Classification: **Deficiency**
Status: **QAREVIEW**
Production Area: MS VOA
Tests: None
Lot #'s (Sample #'s): ,
QC Batches: None.,

Nonconformance: QC data exceeded criteria
Subcategory: Invalid instrument calibration or calibration verification

Problem Description / Root Cause

Name	Date	Description
Brian Peterson	11/10/2008	Curve: MSI 11/4/08 The following analytes were not spiked in this curve: 2-Methylhexane, 3-Methylhexane, Heptane and 1,3,5-Trichlorobenzene. Samples with these target analytes will not be analyzed on this instrument. The following analyte utilizes quadratic regression fit and will not be reported for South Carolina samples: 1-Chlorohexane.

Corrective Action

Name	Date	Corrective Action
Brian Peterson	11/10/2008	NCM filed, comment "NC" added after appropriate compound name in Enviroquant, and note attached to instrument's monitor.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position
11/10/2008	Brian Peterson	Group Leader

BM 11/7/08

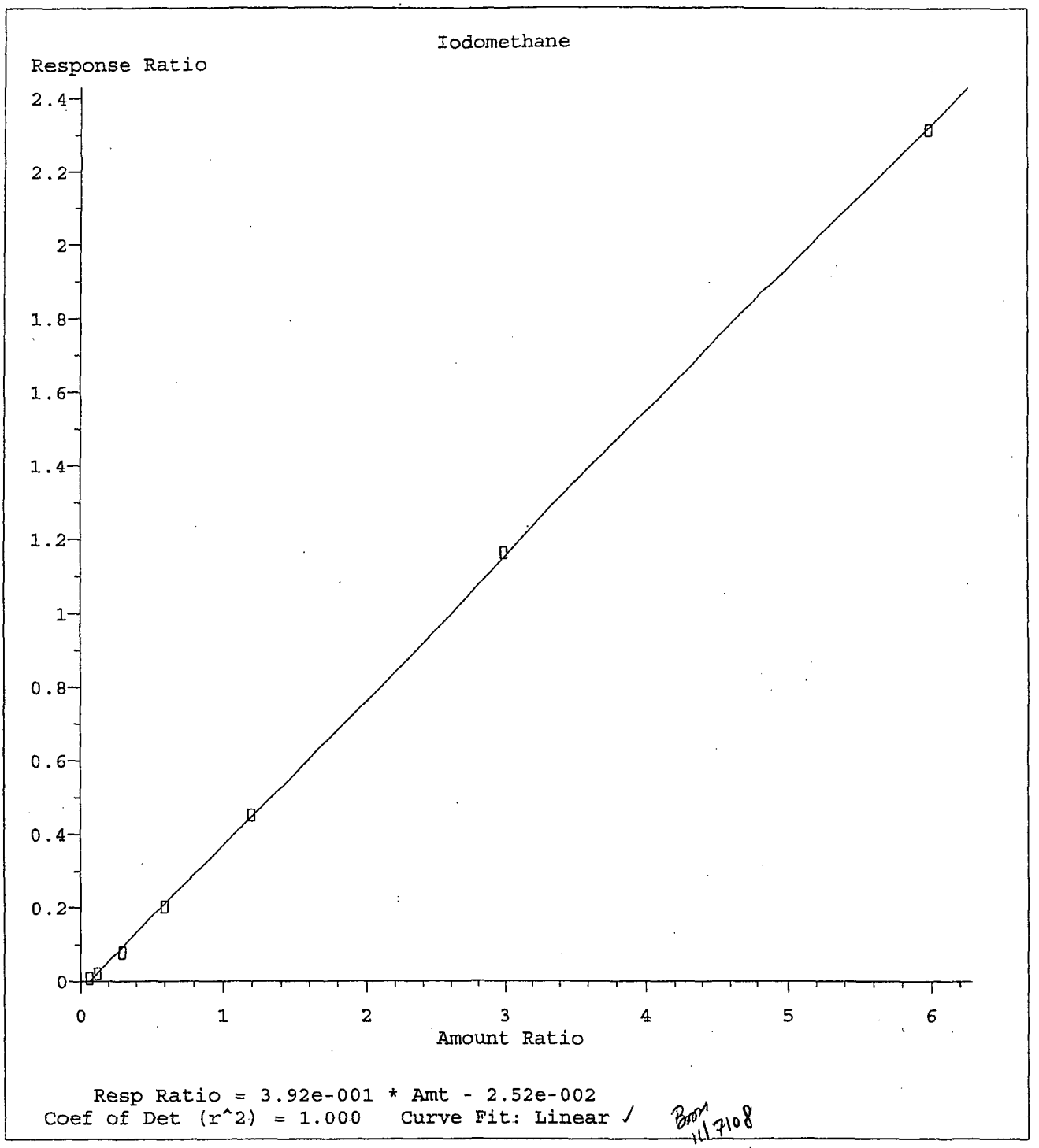
Calibration Table Report												
Method: I81104W.M												
Title: EPA Method 8260B/624 Calibration Curve 15mL Water												
Last Calibration: Fri Nov 07 15:27:57 2008												
Calibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
Compound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
Fluorobenzene (IS)	ISTD											
Dichlorodifluoromethane	0.441	0.388	0.347	0.374	0.368	0.362	0.353	0.320	0.369	9.558		
Chloromethane (SPCC)	0.392	0.363	0.333	0.369	0.347	0.358	0.366	0.367	0.362	4.768		
Vinyl chloride (CCC)	0.446	0.408	0.355	0.386	0.384	0.388	0.391	0.372	0.391	6.805		
Bromomethane	✓	0.252	0.207	0.192	0.174	0.180	0.201	0.222	0.204	13.025		
Ethylene oxide	✓	0.034	0.030	0.030	0.028	0.027			0.030	9.288		
Chloroethane	0.309	0.292	0.262	0.264	0.264	0.263	0.255	0.205	0.264	11.403		
Trichlorofluoromethane	0.494	0.430	0.384	0.405	0.397	0.392	0.387	0.354	0.405	10.221		
Ethyl ether	0.227	0.211	0.202	0.203	0.206	0.208	0.205	0.199	0.208	4.205		
Ethanol	✓	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	6.316		
1,1-Dichloroethene (CCC)	0.286	0.256	0.226	0.241	0.242	0.248	0.253	0.250	0.250	6.897		
Carbon disulfide	0.964	0.846	0.797	0.843	0.871	0.896	0.924	0.906	0.881	5.986		
1,1,2-Trichlorotrifluoroethane	0.289	0.261	0.224	0.237	0.233	0.234	0.234	0.219	0.242	9.442		
Propylene oxide	0.029	0.029	0.027	0.029	0.031	0.031	0.031	0.029	0.030	4.312		
Iodomethane	✓	0.139	0.173	0.261	0.338	0.375	0.388	0.387	0.294	35.546	1.000	
Bromoethane	0.222	0.205	0.197	0.194	0.200	0.202	0.202	0.205	0.203	4.101		
Acrolein	0.013	0.013	0.013	0.014	0.015	0.015	0.016	0.016	0.014	8.790		
3-Chloropropene	0.535	0.489	0.483	0.503	0.516	0.523	0.517	0.496	0.508	3.539		
Methylene chloride	0.329	0.301	0.275	0.276	0.279	0.278	0.277	0.273	0.286	6.845		
Acetone	✓	0.011	0.012	0.011	0.013	0.013	0.013	0.013	0.012	6.517		
trans-1,2-Dichloroethene	0.320	0.277	0.264	0.272	0.275	0.278	0.280	0.283	0.281	5.905		
Methyl acetate	0.021	0.021	0.020	0.022	0.022	0.022	0.022	0.022	0.021	4.343		
Hexane	0.107	0.094	0.086	0.092	0.093	0.094	0.095	0.088	0.094	6.806		
Methyl tert-butyl ether (MTBE)	0.606	0.596	0.558	0.572	0.590	0.590	0.589	0.569	0.584	2.743		
tert-Butyl alcohol	0.010	0.011	0.011	0.010	0.012	0.012	0.013	0.012	0.011	8.127		
Acetonitrile	0.012	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.010	6.460		
Isopropyl ether	1.085	1.034	0.993	1.021	1.051	1.059	1.034	0.979	1.032	3.333		
2-Chloro-1,3-butadiene	0.214	0.194	0.185	0.209	0.222	0.233	0.238	0.237	0.217	9.134		

Calibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
Compound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
1,1-Dichloroethane (SPCC)	0.616	0.567	0.534	0.536	0.546	0.546	0.536	0.523	0.551	5.316		
Acrylonitrile	0.054	0.053	0.050	0.052	0.054	0.053	0.053	0.052	0.053	2.661		
Vinyl acetate	0.302	0.291	0.304	0.326	0.355	0.365	0.368	0.354	0.333	9.333		
cis-1,2-Dichloroethene	0.323	0.291	0.283	0.284	0.293	0.295	0.300	0.301	0.296	4.186		
2,2-Dichloropropane	0.443	0.423	0.386	0.406	0.413	0.419	0.413	0.401	0.413	4.074		
Cyclohexane	0.594	0.521	0.472	0.515	0.513	0.509	0.509	0.470	0.513	7.458		
Bromochloromethane	0.147	0.140	0.130	0.131	0.136	0.140	0.141	0.144	0.139	4.251		
2-Methylhexane (NC)												
Chloroform (CCC)	0.524	0.488	0.461	0.467	0.469	0.468	0.466	0.460	0.475	4.498		
Carbon tetrachloride	0.353	0.322	0.290	0.319	0.326	0.326	0.323	0.314	0.322	5.390		
3-Methylhexane (NC)												
Ethyl acetate	0.134	0.130	0.127	0.131	0.139	0.138	0.136	0.128	0.133	3.447		
Tetrahydrofuran	✓	✓	0.017	0.017	0.020	0.020	0.021	0.020	0.019	8.500		
Dibromofluoromethane (Surr)	0.253	0.242	0.228	0.234	0.244	0.246	0.249	0.251	0.244	3.584		
1,1,1-Trichloroethane	0.438	0.401	0.369	0.395	0.396	0.396	0.399	0.388	0.398	4.782		
1,1-Dichloropropene	0.413	0.376	0.351	0.377	0.387	0.387	0.388	0.378	0.382	4.573		
2-Butanone (MEK)	0.071	0.070	0.052	0.054	0.058	0.060	0.061	0.059	0.060	11.154		
Benzene	1.323	1.211	1.149	1.168	1.194	1.208	1.201	1.180	1.204	4.360		
Heptane (NC)												
Propanenitrile	0.018	0.019	0.019	0.020	0.020	0.020	0.021	0.020	0.020	4.419		
Methacrylonitrile	0.061	0.058	0.058	0.063	0.067	0.067	0.068	0.066	0.063	6.629		
1,2-Dichloroethane-d4 (Surr)	0.167	0.156	0.140	0.133	0.133	0.132	0.127	0.124	0.139	10.694		
1,2-Dichloroethane	0.334	0.306	0.291	0.281	0.291	0.282	0.275	0.265	0.291	7.306		
Isobutyl alcohol	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.005	17.006	0.999	
Methylcyclohexane	0.412	0.372	0.331	0.356	0.358	0.358	0.366	0.343	0.362	6.641		
Trichloroethene	0.317	0.276	0.264	0.264	0.269	0.274	0.281	0.288	0.279	6.240		
Dibromomethane	0.112	0.102	0.098	0.100	0.106	0.107	0.107	0.107	0.105	4.344		
n-Butanol	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.003	29.253	0.999	
1,2-Dichloropropane (CCC)	0.311	0.280	0.267	0.271	0.282	0.282	0.281	0.279	0.282	4.609		
Bromodichloromethane	0.334	0.306	0.297	0.313	0.331	0.331	0.335	0.338	0.323	4.821		
1,4-Dioxane	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.800		
Methyl methacrylate	0.079	0.072	0.080	0.089	0.102	0.109	0.116	0.116	0.095	18.534	1.000	
1-Bromo-2-chloroethane	0.320	0.304	0.283	0.281	0.297	0.299	0.300	0.297	0.298	4.061		
cis-1,3-Dichloropropene	0.373	0.359	0.362	0.381	0.418	0.428	0.434	0.431	0.398	8.196		

Calibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
Compound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
2-Chloroethyl vinyl ether	✓	✓	0.070	0.076	0.087	0.090	0.092	0.088	0.084	10.583		
Toluene-d8 (Surr)	0.985	0.936	0.892	0.920	0.964	0.983	0.997	0.993	0.959	4.022		
Chlorobenzene-d5 (IS)	ISTD											
Toluene (CCC)	6.128	5.837	5.563	5.599	5.668	5.672	5.395	5.240	5.638	4.769		
Epichlorohydrin	0.056	0.051	0.054	0.057	0.061	0.062	0.061	0.057	0.057	6.453		
2-Nitropropane	✓	✓	✓	0.114	0.130	0.146	0.157	0.161	0.142	13.697		
Tetrachloroethene	1.107	0.964	0.865	0.909	0.916	0.907	0.900	0.896	0.933	8.078		
4-Methyl-2-pentanone (MIBK)	0.496	0.501	0.529	0.559	0.612	0.639	0.626	0.586	0.569	9.857		
trans-1,3-Dichloropropene	1.335	1.306	1.365	1.449	1.575	1.594	1.518	1.478	1.452	7.483		
1,1,2-Trichloroethane	0.789	0.787	0.775	0.774	0.787	0.771	0.738	0.728	0.769	2.982		
4-Methyl-2-pentanol (MIBC)	✓	0.066	0.073	0.080	0.098	0.110	0.133	0.132	0.099	27.716	0.999	
Ethyl methacrylate	✓	0.683	0.770	0.862	1.024	1.087	1.096	1.070	0.942	17.932	1.000	
Dibromochloromethane	0.790	0.763	0.755	0.810	0.867	0.898	0.875	0.874	0.829	6.777		
1,3-Dichloropropane	1.792	1.628	1.559	1.544	1.575	1.540	1.448	1.406	1.562	7.501		
1,2-Dibromoethane (EDB)	0.717	0.675	0.652	0.670	0.699	0.688	0.677	0.658	0.680	3.154		
2-Hexanone	✓	0.294	0.341	0.373	0.379	0.398	0.384	0.658	0.349	13.380		
Chlorobenzene (SPCC)	4.063	3.634	3.357	3.337	3.351	3.370	3.354	3.328	3.474	7.432		
1-Chlorohexane	2.543	1.872	1.475	1.414	1.341	1.307	1.207	1.102	1.533	30.526		1.000
Ethylbenzene (CCC)	2.240	1.980	1.834	1.895	1.960	1.971	1.938	1.943	1.970	6.034		
1,1,1,2-Tetrachloroethane	1.089	1.069	1.005	1.036	1.083	1.086	1.068	1.071	1.063	2.699		
m&p-Xylene	2.617	2.431	2.299	2.369	2.462	2.468	2.475	2.408	2.441	3.794		
o-Xylene	2.318	2.207	2.099	2.196	2.328	2.333	2.311	2.303	2.262	3.753		
Bromoform (SPCC)	0.328	0.320	0.325	0.350	0.393	0.405	0.419	0.425	0.371	12.053		
Styrene	2.870	2.782	2.894	3.347	3.660	3.759	3.756	3.734	3.350	13.043		
Isopropylbenzene	5.543	5.274	5.038	5.347	5.450	5.485	5.328	5.180	5.331	3.132		
Bromobenzene	1.178	1.092	1.083	1.100	1.143	1.139	1.153	1.185	1.134	3.412		
n-Propylbenzene	1.477	1.421	1.412	1.500	1.554	1.552	1.578	1.593	1.511	4.607		
1,1,2,2-Tetrachloroethane (SPCC)	0.835	0.823	0.781	0.780	0.801	0.795	0.788	0.773	0.797	2.739		
1,4-Bromofluorobenzene (Surr)	1.702	1.601	1.511	1.523	1.563	1.576	1.516	1.497	1.561	4.314		
1,4-Dichlorobenzene-d4 (IS)	ISTD											
2-Chlorotoluene	1.043	0.978	0.910	0.941	0.965	0.968	0.983	0.973	0.970	3.922		
Cyclohexanone	✓	✓	0.009	0.009	0.010	0.009	0.011	0.010	0.010	7.259		
1,2,3-Trichloropropane	0.222	0.211	0.202	0.197	0.198	0.194	0.193	0.185	0.200	5.817		
trans-1,4-Dichloro-2-butene	✓	0.116	0.125	0.137	0.157	0.163	0.173	0.165	0.148	14.834		

Calibration Files	0.5	1	2	5	10	20	50	100				
	IB04805.D	IB04806.D	IB04807.D	IB04808.D	IB04809.D	IB04810.D	IB04811.D	IB04812.D				
Compound									Avg	%RSD	LR	QR
										≤15%	≥0.990	≥0.990
3-Ethyltoluene	4.196	4.007	3.905	4.103	4.262	4.254	4.264	4.038	4.129	3.304		
4-Chlorotoluene	1.027	0.945	0.911	0.931	0.965	0.977	0.975	0.962	0.962	3.610		
1,3,5-Trimethylbenzene	3.600	3.445	3.300	3.467	3.562	3.592	3.539	3.390	3.487	3.041		
2-Ethyltoluene	4.365	4.202	4.032	4.131	4.289	4.270	4.199	3.991	4.185	3.060		
tert-Butylbenzene	2.107	1.974	1.854	1.910	1.926	1.914	1.859	1.765	1.914	5.217		
Pentachloroethane	0.428	0.413	0.442	0.459	0.503	0.534	0.551	0.567	0.487	12.216		
1,2,4-Trimethylbenzene	3.486	3.476	3.340	3.441	3.594	3.616	3.575	3.406	3.492	2.783		
sec-Butylbenzene	4.697	4.321	4.041	4.179	4.281	4.286	4.264	4.005	4.259	4.985		
p-Isopropyltoluene	3.688	3.555	3.407	3.595	3.740	3.763	3.772	3.599	3.640	3.449		
1,3-Dichlorobenzene	1.938	1.757	1.656	1.636	1.690	1.710	1.724	1.712	1.728	5.396		
1,4-Dichlorobenzene	2.125	1.908	1.769	1.726	1.775	1.761	1.799	1.770	1.829	7.153		
Benzyl chloride	✓	✓	0.102	0.139	0.169	0.204	0.242	0.261	0.186	32.922	0.999	
n-Butylbenzene	0.862	0.784	0.734	0.818	0.871	0.893	0.917	0.917	0.850	7.745		
1,2-Dichlorobenzene	1.568	1.459	1.355	1.371	1.434	1.445	1.436	1.428	1.437	4.459		
1,3,5-Trichlorobenzene (NC)												
1,2-Dibromo-3-chloropropane (DBCP)	✓	0.049	0.052	0.059	0.066	0.073	0.086	0.084	0.067	21.793	0.999	
Hexachlorobutadiene	0.486	0.467	0.411	0.413	0.417	0.421	0.438	0.435	0.436	6.217		
1,2,4-Trichlorobenzene	0.763	0.758	0.694	0.732	0.780	0.801	0.812	0.799	0.767	5.190		
Naphthalene	0.898	0.954	0.984	1.070	1.208	1.273	1.305	1.237	1.116	14.253		
1,2,3-Trichlorobenzene	0.552	0.551	0.526	0.522	0.552	0.554	0.559	0.544	0.545	2.483		

Fri Nov 07 15:34:57 2008



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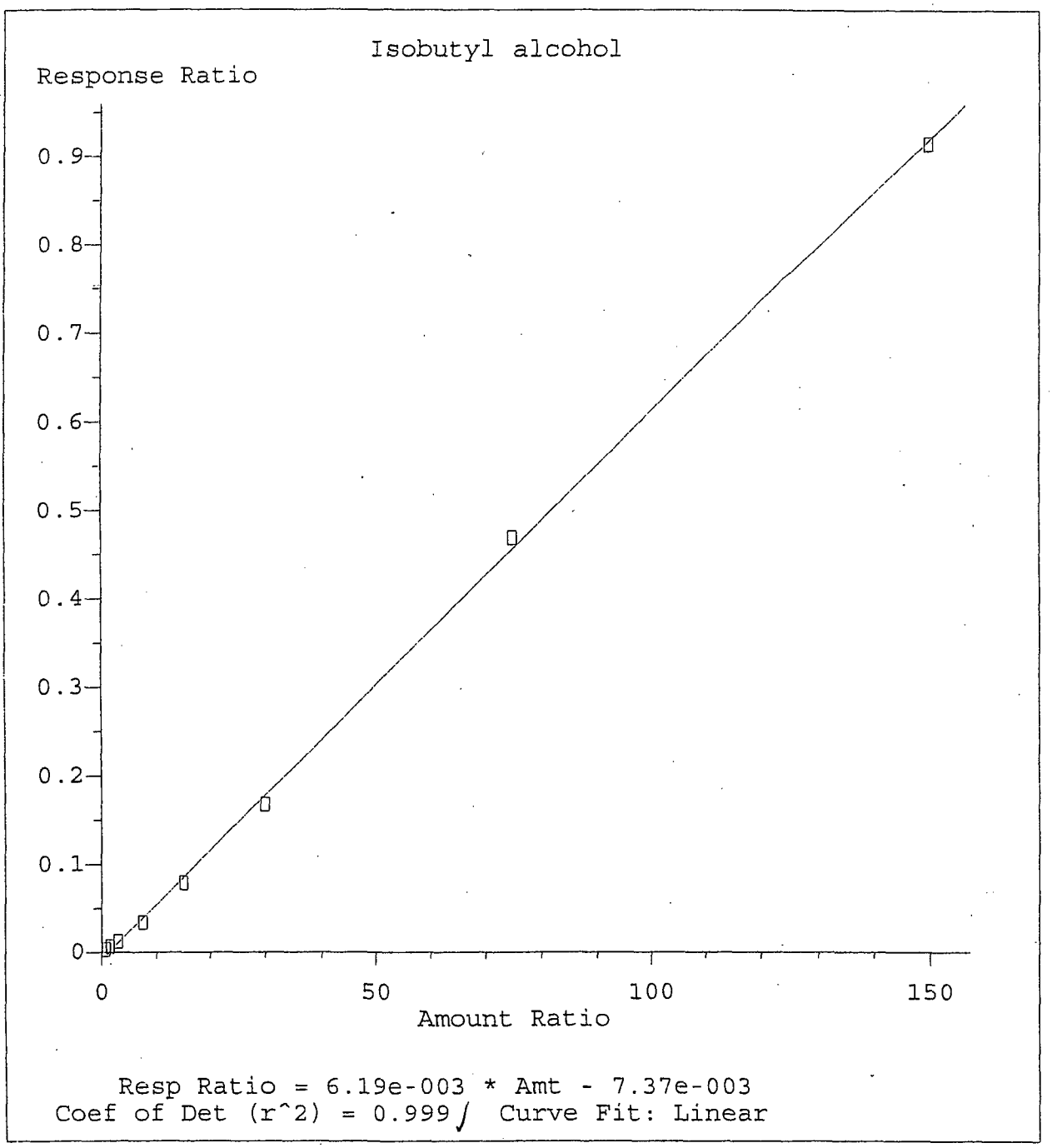
Calibration Table Last Updated: Fri Nov 07 15:04:06 2008

rA 11/5/08



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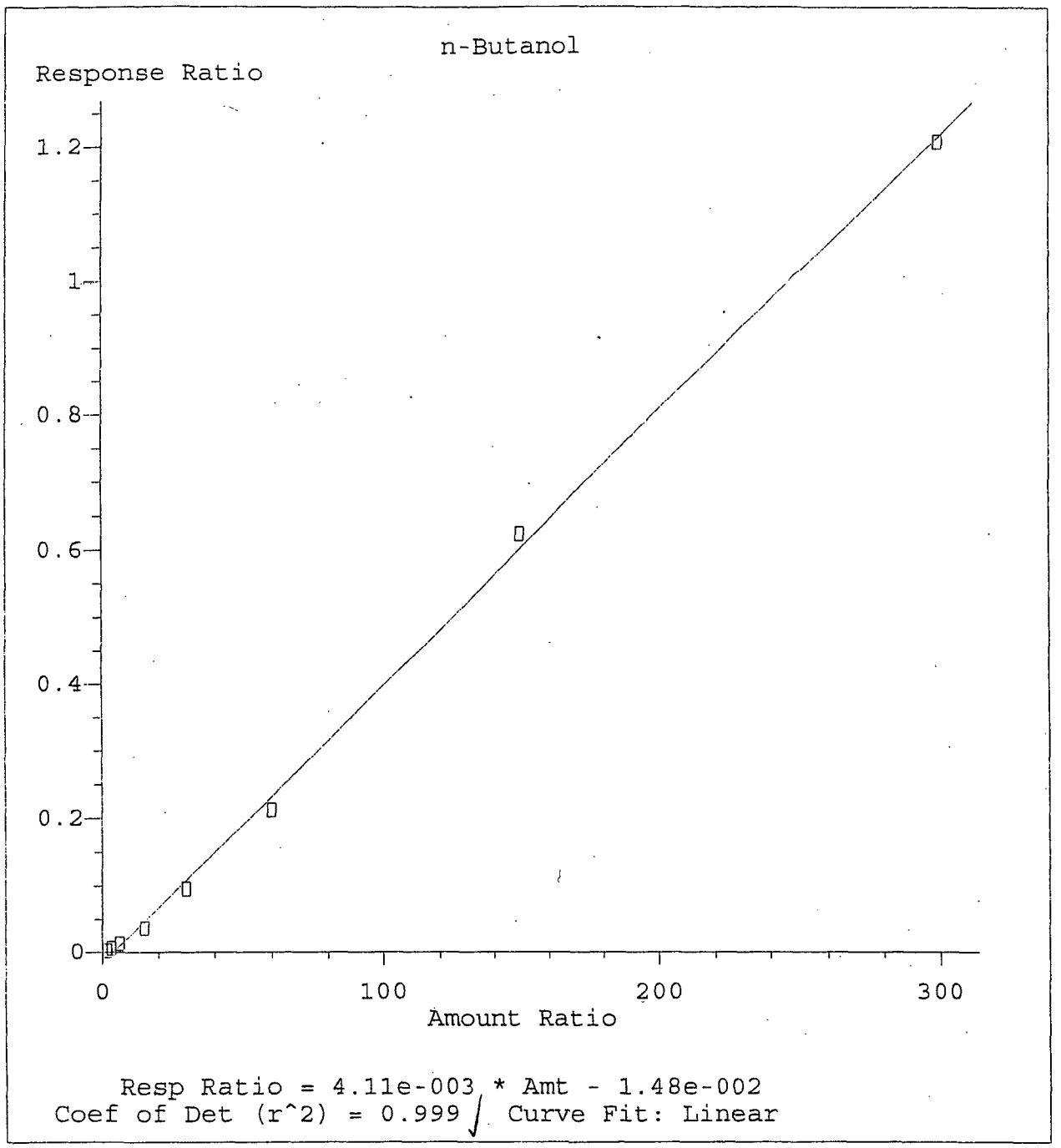
Calibration Table Last Updated: Wed Nov 05 10:33:32 2008

PA 11/5/08



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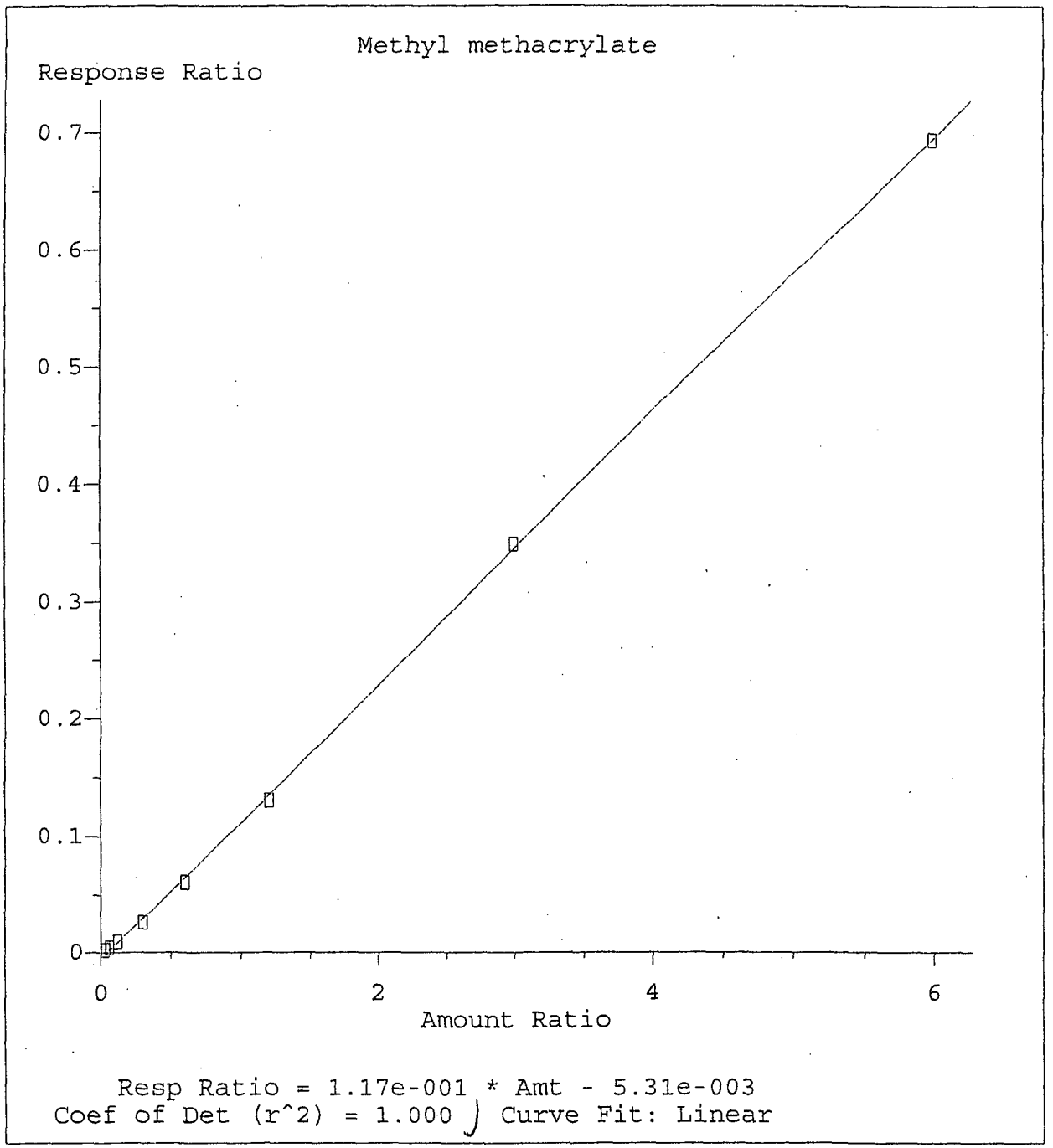
KA 11/5/08



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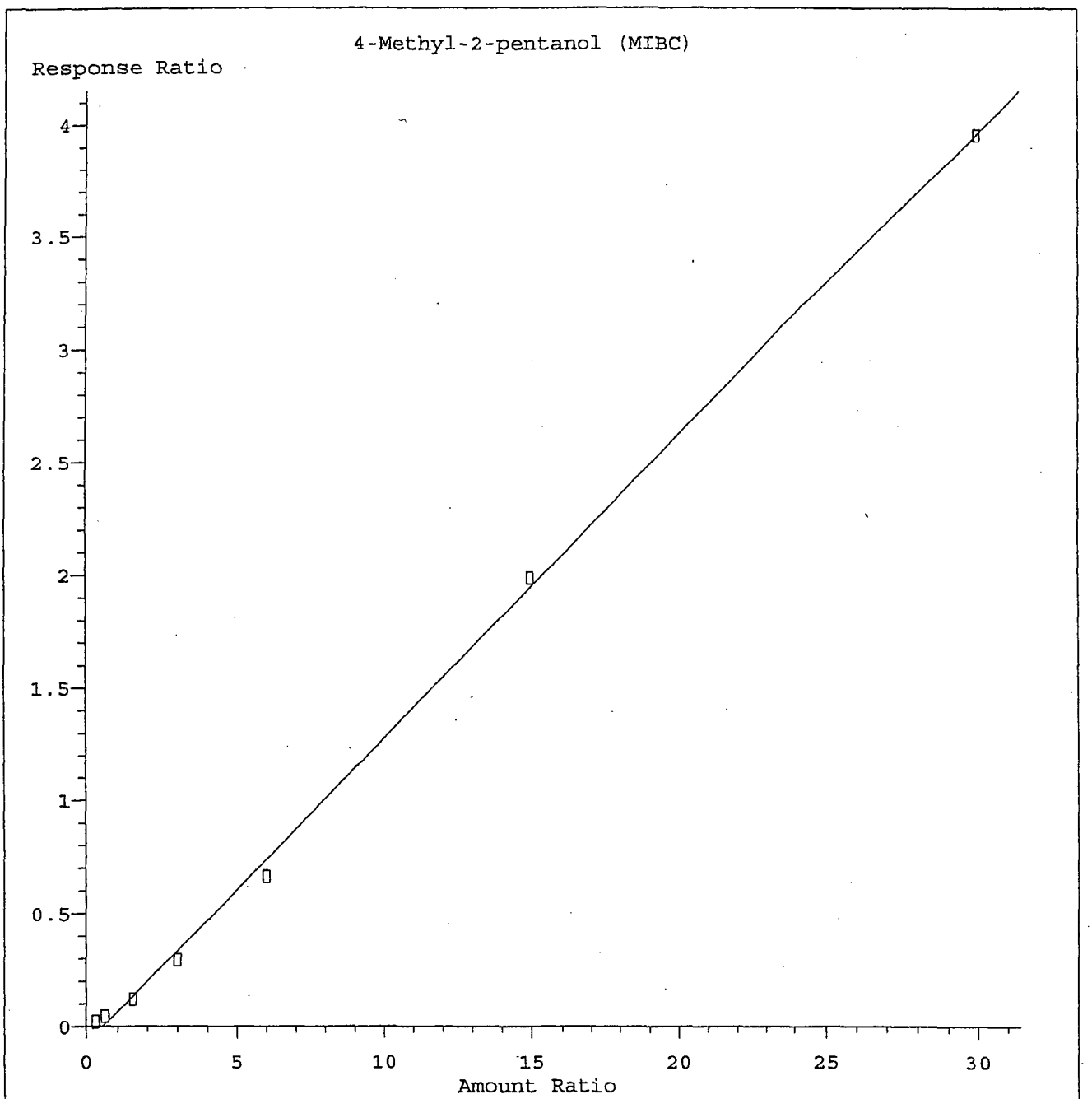
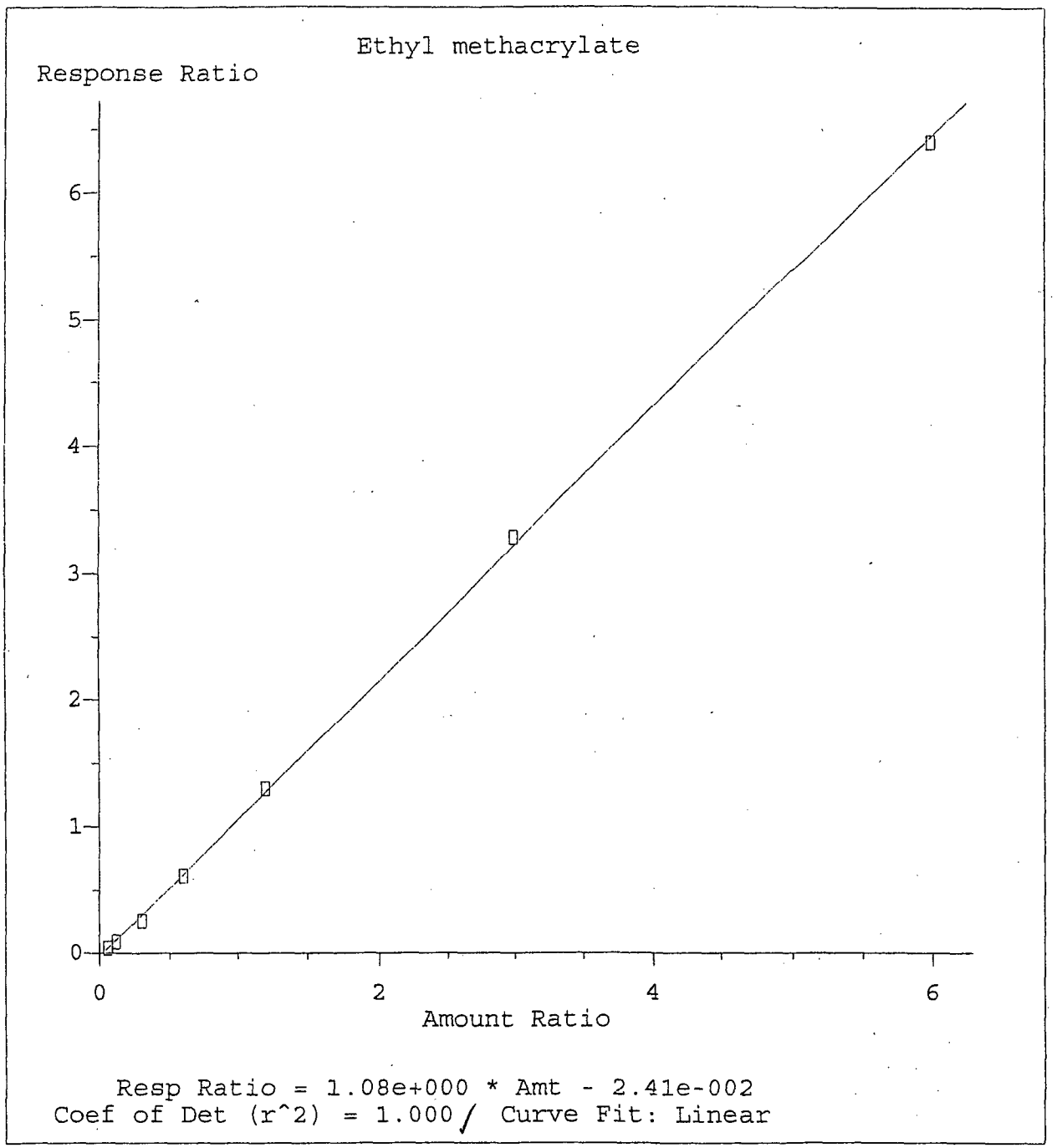


Resp Ratio = 1.35e-001 * Amt - 7.08e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: H:\MSI.I\METHODS\I81104W.M
Calibration Table Last Updated: Fri Nov 07 14:54:09 2008

KA 11/5/08



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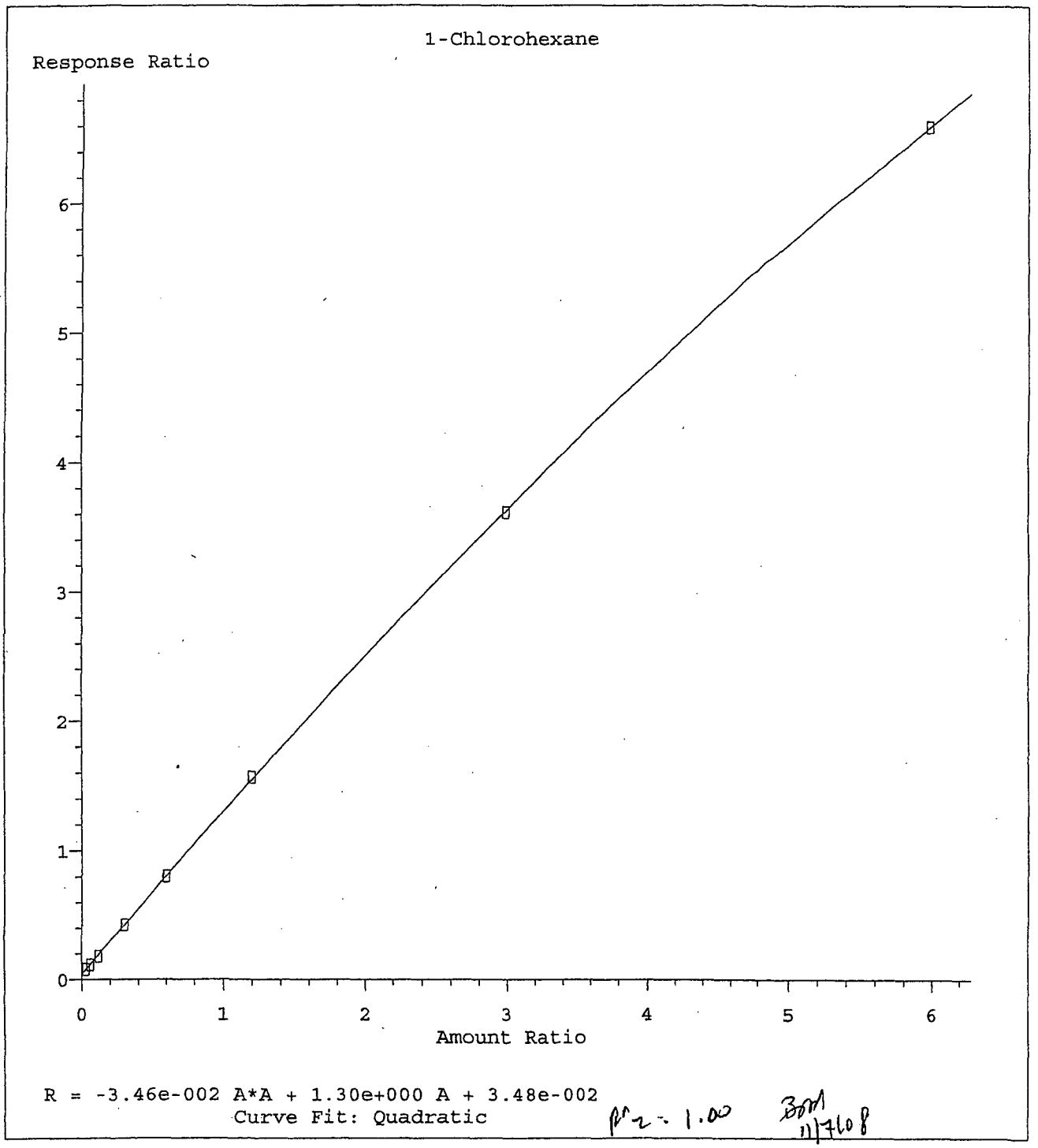

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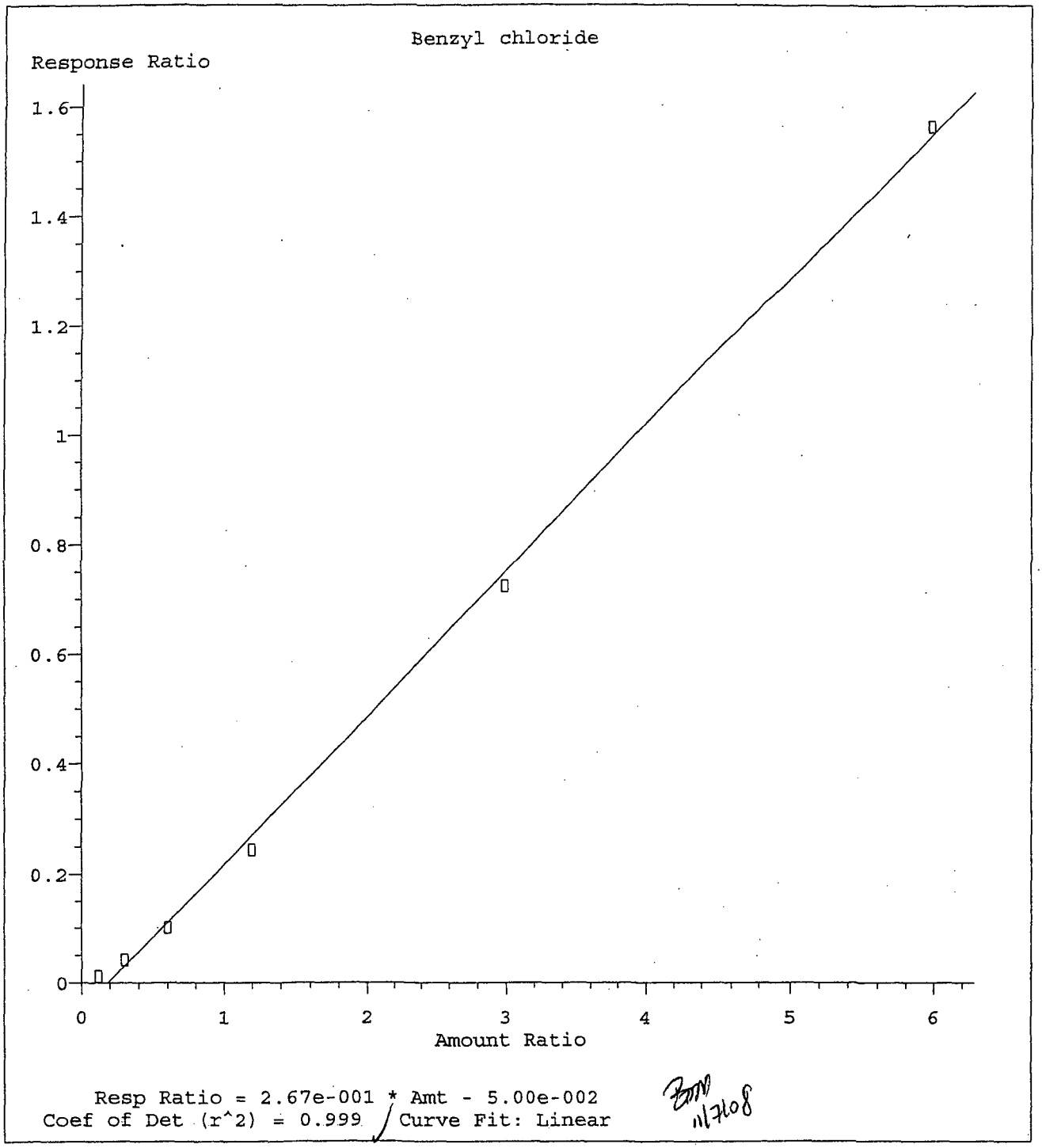

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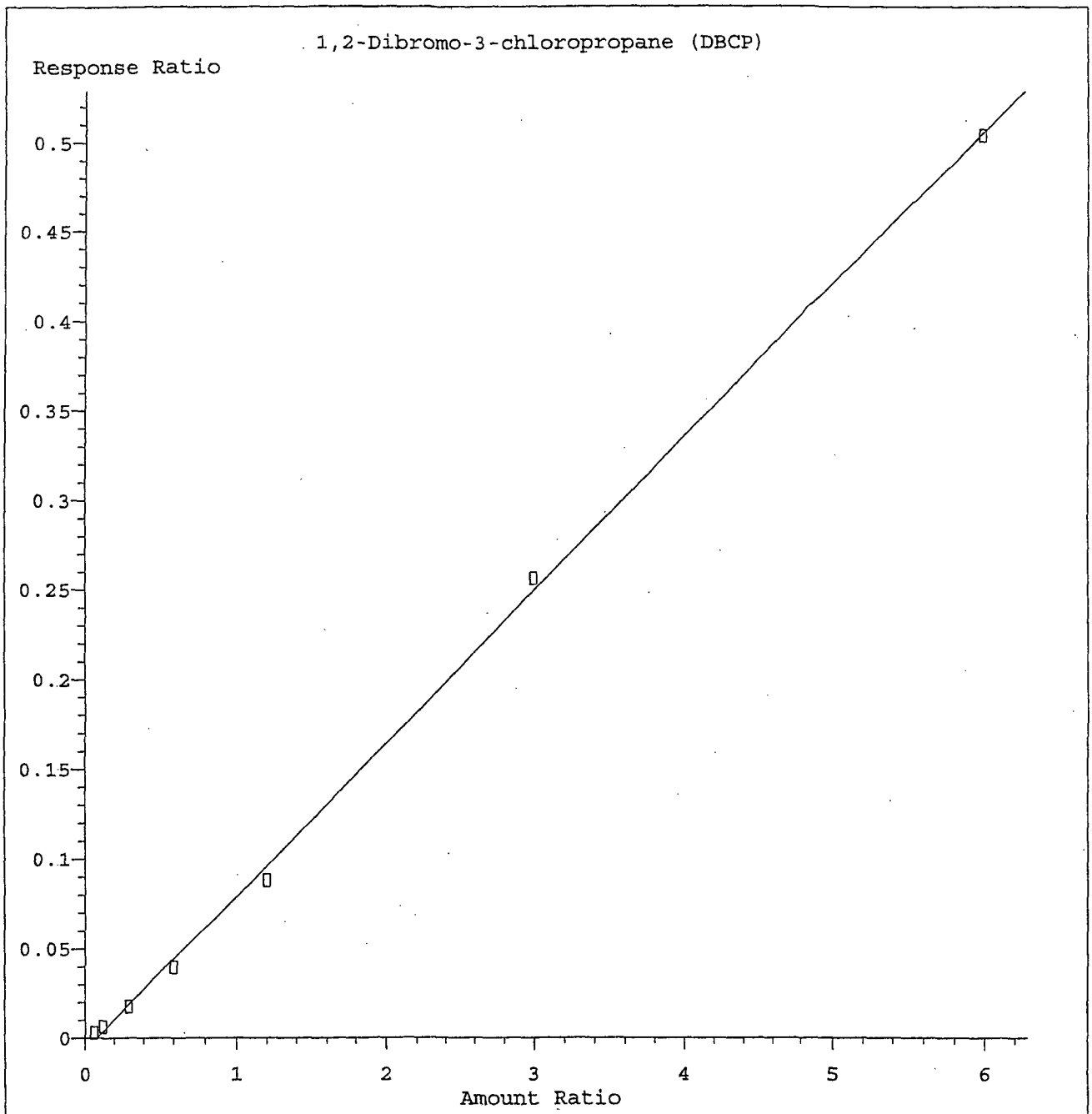
Calibration Table Last Updated: Fri Nov 07 14:59:59 2008



Resp Ratio = 8.56e-002 * Amt - 7.03e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: H:\MSI.I\METHODS\I81104W.M
Calibration Table Last Updated: Fri Nov 07 15:01:14 2008

8260 ICV SUMMARY FORM (15 mL WATER)

BDM 11/10/08

IB04819.D								
	SPIKE	Result	ICV REC	ICV REC TOLERANCE				
COMPOUND	(ug/L)		%	LOW	HIGH	P/F	Analysis Date	File
Dichlorodifluoromethane	50	43.66	87.32	65	135		11/5/2008	IB04819.D
Chloromethane (SPCC)	50	36.90	73.80	65	135		11/5/2008	IB04819.D
Vinyl chloride (CCC)	50	44.62	89.24	65	135		11/5/2008	IB04819.D
Bromomethane	50	49.36	98.71	65	135		11/5/2008	IB04819.D
Ethylene oxide	625	497.71	79.63	65	135		11/6/2008	IB04826.D
Chloroethane	50	45.01	90.02	65	135		11/5/2008	IB04819.D
Trichlorofluoromethane	50	46.97	93.93	65	135		11/5/2008	IB04819.D
Ethyl ether	50	48.17	96.34	65	135		11/5/2008	IB04819.D
Ethanol	1250	1381.21	110.50	65	135		11/5/2008	IB04819.D
1,1-Dichloroethene (CCC)	50	48.28	96.55	65	135		11/5/2008	IB04819.D
Carbon disulfide	50	49.27	98.54	65	135		11/5/2008	IB04819.D
1,1,2-Trichlorotrifluoroethane	50	43.55	87.10	65	135		11/5/2008	IB04819.D
Propylene oxide	250	235.64	94.26	65	135		11/6/2008	IB04826.D
Iodomethane	50	50.66	101.31	65	135		11/5/2008	IB04819.D
Bromoethane	50	46.62	93.24	65	135		11/5/2008	IB04819.D
Acrolein	250	186.49	74.59	65	135		11/7/2008	IB04827.D
3-Chloropropene	50	45.58	91.15	65	135		11/5/2008	IB04819.D
Methylene chloride	50	48.44	96.87	65	135		11/5/2008	IB04819.D
Acetone	50	56.24	112.48	65	135		11/5/2008	IB04819.D
trans-1,2-Dichloroethene	50	50.15	100.30	65	135		11/5/2008	IB04819.D
Methyl acetate	125	119.88	95.90	65	135		11/6/2008	IB04826.D
Hexane	50	48.33	96.67	65	135		11/5/2008	IB04819.D
Methyl tert-butyl ether (MTBE)	50	50.71	101.41	65	135		11/5/2008	IB04819.D
tert-Butyl alcohol	1000	1155.75	115.58	65	135		11/5/2008	IB04819.D
Acetonitrile	250	251.62	100.65	65	135		11/5/2008	IB04819.D
Isopropyl ether	50	48.12	96.25	65	135		11/5/2008	IB04819.D
2-Chloro-1,3-butadiene	12.5	12.13	97.05	65	135		11/5/2008	IB04819.D
1,1-Dichloroethane (SPCC)	50	47.94	95.88	65	135		11/5/2008	IB04819.D
Acrylonitrile	250	263.36	105.35	65	135		11/5/2008	IB04819.D
Vinyl acetate	50	54.38	108.76	65	135		11/8/2008	IB08807.D
cis-1,2-Dichloroethene	50	51.22	102.44	65	135		11/5/2008	IB04819.D
2,2-Dichloropropane	50	49.53	99.05	65	135		11/5/2008	IB04819.D
Cyclohexane	50	48.15	96.31	65	135		11/5/2008	IB04819.D
Bromochloromethane	50	53.25	106.50	65	135		11/5/2008	IB04819.D
2-Methylhexane	50	NC	NC	65	135	NC	NC	NC
Chloroform (CCC)	50	50.24	100.48	65	135		11/5/2008	IB04819.D
Carbon tetrachloride	50	49.41	98.81	65	135		11/5/2008	IB04819.D
3-Methylhexane	50	NC	NC	65	135	NC	NC	NC
Ethyl acetate	250	270.18	108.07	65	135		11/5/2008	IB04819.D
Tetrahydrofuran	50	55.12	110.24	65	135		11/5/2008	IB04819.D
1,1,1-Trichloroethane	50	49.62	99.24	65	135		11/5/2008	IB04819.D
1,1-Dichloropropene	50	49.04	98.07	65	135		11/5/2008	IB04819.D
2-Butanone (MEK)	50	53.09	106.19	65	135		11/5/2008	IB04819.D
Benzene	50	49.41	98.82	65	135		11/5/2008	IB04819.D
Heptane	50	NC	NC	65	135	NC	NC	NC
Propionitrile	250	268.89	107.55	65	135		11/5/2008	IB04819.D
Methacrylonitrile	50	47.92	95.85	65	135		11/5/2008	IB04819.D
1,2-Dichloroethane	50	47.06	94.13	65	135		11/5/2008	IB04819.D
Isobutyl alcohol	1000	1031.46	103.15	65	135		11/5/2008	IB04819.D
Methylcyclohexane	125	115.56	92.45	65	135		11/6/2008	IB04826.D
Trichloroethene	50	48.83	97.67	65	135		11/5/2008	IB04819.D
Dibromomethane	50	52.82	105.64	65	135		11/5/2008	IB04819.D

8260 ICV SUMMARY FORM (15 mL WATER)

IB04819.D								
	SPIKE	Result	ICV REC	ICV REC TOLERANCE				
COMPOUND	(ug/L)		%	LOW	HIGH	P/F	Analysis Date	File
n-Butanol	2500	2582.29	103.29	65	135		11/5/2008	IB04819.D
1,2-Dichloropropane (CCC)	50	50.52	101.03	65	135		11/5/2008	IB04819.D
Bromodichloromethane	50	50.05	100.11	65	135		11/5/2008	IB04819.D
1,4-Dioxane	1000	1188.17	118.82	65	135		11/5/2008	IB04819.D
Methyl methacrylate	50	47.42	94.84	65	135		11/5/2008	IB04819.D
1-Bromo-2-chloroethane	50	50.04	100.08	65	135		11/5/2008	IB04819.D
cis-1,3-Dichloropropene	50	53.10	106.21	65	135		11/5/2008	IB04819.D
2-Chloroethyl vinyl ether	50	59.07	118.15	65	135		11/6/2008	IB04822.D
Toluene (CCC)	50	46.58	93.17	65	135		11/5/2008	IB04819.D
Epichlorohydrin	250	235.04	94.01	65	135		11/5/2008	IB04819.D
2-Nitropropane	100	109.39	109.39	65	135		11/6/2008	IB04825.D
Tetrachloroethene	50	49.07	98.14	65	135		11/5/2008	IB04819.D
4-Methyl-2-pentanone (MIBK)	50	54.94	109.88	65	135		11/5/2008	IB04819.D
trans-1,3-Dichloropropene	50	52.81	105.62	65	135		11/5/2008	IB04819.D
1,1,2-Trichloroethane	50	49.59	99.17	65	135		11/5/2008	IB04819.D
4-Methyl-2-pentanol (MIBC)	50	50.14	100.27	65	135		11/5/2008	IB04819.D
Ethyl methacrylate	50	47.54	95.08	65	135		11/5/2008	IB04819.D
Dibromochloromethane	50	54.81	109.61	65	135		11/5/2008	IB04819.D
1,3-Dichloropropane	50	49.46	98.91	65	135		11/5/2008	IB04819.D
1,2-Dibromoethane (EDB)	50	52.25	104.51	65	135		11/5/2008	IB04819.D
2-Hexanone	50	59.49	118.98	65	135		11/5/2008	IB04819.D
Chlorobenzene (SPCC)	50	48.66	97.32	65	135		11/5/2008	IB04819.D
1-Chlorohexane	50	48.19	96.38	65	135		11/5/2008	IB04819.D
Ethylbenzene (CCC)	50	48.01	96.01	65	135		11/5/2008	IB04819.D
1,1,1,2-Tetrachloroethane	50	51.39	102.77	65	135		11/5/2008	IB04819.D
m&p-Xylene	100	97.80	97.80	65	135		11/5/2008	IB04819.D
o-Xylene	50	49.68	99.37	65	135		11/5/2008	IB04819.D
Bromoform (SPCC)	50	60.58	121.15	65	135		11/5/2008	IB04819.D
Styrene	50	51.44	102.88	65	135		11/5/2008	IB04819.D
Isopropylbenzene	50	51.47	102.94	65	135		11/5/2008	IB04819.D
Bromobenzene	50	52.32	104.63	65	135		11/5/2008	IB04819.D
n-Propylbenzene	50	50.90	101.80	65	135		11/5/2008	IB04819.D
1,1,2,2-Tetrachloroethane (SPCC)	50	49.86	99.73	65	135		11/5/2008	IB04819.D
2-Chlorotoluene	50	49.15	98.31	65	135		11/5/2008	IB04819.D
Cyclohexanone	250	273.03	109.21	65	135		11/6/2008	IB04826.D
1,2,3-Trichloropropane	50	48.05	96.11	65	135		11/5/2008	IB04819.D
trans-1,4-Dichloro-2-butene	50	45.93	91.86	65	135		11/5/2008	IB04819.D
3-Ethyltoluene	50	47.96	95.92	65	135		11/5/2008	IB04819.D
4-Chlorotoluene	50	50.93	101.86	65	135		11/5/2008	IB04819.D
1,3,5-Trimethylbenzene	50	47.63	95.25	65	135		11/5/2008	IB04819.D
2-Ethyltoluene	50	47.69	95.37	65	135		11/5/2008	IB04819.D
tert-Butylbenzene	50	47.06	94.12	65	135		11/5/2008	IB04819.D
Pentachloroethane	50	54.02	108.03	65	135		11/5/2008	IB04819.D
1,2,4-Trimethylbenzene	50	47.68	95.36	65	135		11/5/2008	IB04819.D
sec-Butylbenzene	50	49.33	98.66	65	135		11/5/2008	IB04819.D
p-Isopropyltoluene	50	49.72	99.44	65	135		11/5/2008	IB04819.D
1,3-Dichlorobenzene	50	49.38	98.76	65	135		11/5/2008	IB04819.D

8260 ICV SUMMARY FORM (15 mL WATER)

IB04819.D								
	SPIKE	Result	ICV REC	ICV REC TOLERANCE				
COMPOUND	(ug/L)		%	LOW	HIGH	P/F	Analysis Date	File
1,4-Dichlorobenzene	50	46.88	93.76	65	135		11/5/2008	IB04819.D
Benzyl chloride	50	44.03	88.06	65	135		11/5/2008	IB04819.D
n-Butylbenzene	50	51.93	103.86	65	135		11/5/2008	IB04819.D
1,2-Dichlorobenzene	50	50.11	100.23	65	135		11/5/2008	IB04819.D
1,3,5-Trichlorobenzene	125	NC	NC	65	135	NC	NC	NC
1,2-Dibromo-3-chloropropane (DBCP)	50	54.24	108.48	65	135		11/5/2008	IB04819.D
Hexachlorobutadiene	50	45.09	90.18	65	135		11/5/2008	IB04819.D
1,2,4-Trichlorobenzene	50	53.58	107.16	65	135		11/5/2008	IB04819.D
Naphthalene	50	55.95	111.90	65	135		11/5/2008	IB04819.D
1,2,3-Trichlorobenzene	50	50.21	100.42	65	135		11/5/2008	IB04819.D
Dibromofluoromethane (Surr)	16.7	17.24	103.22	81	110		11/5/2008	IB04819.D
1,2-Dichloroethane-d4 (Surr)	16.7	15.19	90.94	75	115		11/5/2008	IB04819.D
Toluene-d8 (Surr)	16.7	17.28	103.49	90	114		11/5/2008	IB04819.D
1,4-Bromofluorobenzene (Surr)	16.7	15.66	93.79	86	117		11/5/2008	IB04819.D

Q = Failed criteria
NC = Not calibrated

Sequence Name: C:\HPCHEM\1\SEQUENCE\I110408.S
Comment:
Operator: dy
Data Path: C:\HPCHEM\1\DATA\I110408.B\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Blank	1	IB04801	I81104W	BLANK;BLANK BFB 14:06 11/4/08
2	Blank	~~2~~	~~IB04802~~	~~I81104W~~	~~BLANK;BLANK~~
3	Blank	~~3~~	~~IB04803~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- stabilizing blanks
4	Blank	~~4~~	~~IB04804~~	~~I81104W~~	~~BLANK;BLANK~~
5	Blank	5	IB04805	I81104W	STD 0.5ppb
6	Blank	6	IB04806	I81104W	STD 1ppb
7	Blank	7	IB04807	I81104W	STD 2ppb
8	Blank	8	IB04808	I81104W	STD 5ppb
9	Blank	9	IB04809	I81104W	STD 10ppb
10	Blank	10	IB04810	I81104W	STD 20ppb
11	Blank	11	IB04811	I81104W	STD 50ppb
12	Blank	12	IB04812	I81104W	STD 100ppb
13	Blank	~~13~~	~~IB04813~~	~~I81104W~~	~~BLANK;BLANK~~
14	Blank	~~14~~	~~IB04814~~	~~I81104W~~	~~BLANK;BLANK~~
15	Blank	~~15~~	~~IB04815~~	~~I81104W~~	~~BLANK;BLANK~~ Not used cleanup/ system blanks Stop 11/7/08
16	Blank	~~16~~	~~IB04816~~	~~I81104W~~	~~BLANK;BLANK~~
17	Blank	~~17~~	~~IB04817~~	~~I81104W~~	~~NOT USED;special analyte mix~~ - wrong recipe
18	Blank	~~18~~	~~IB04818~~	~~I81104W~~	~~NOT USED;reactives mix~~
19	Blank	19	IB04819	I81104W	50ppb ICV;composite mix 17:26 11/5/08
20	Blank	~~20~~	~~IB04820~~	~~I81104W~~	~~BLANK;BLANK~~
21	Blank	~~21~~	~~IB04821~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- system blks
22	Blank	22	IB04822	I81104W	50ppb ICV;reactives mix Acrolein out
23	Blank	23	IB04823	I81104W	50ppb ICV;special analytes mi -no cust
24	Blank	~~24~~	~~IB04824~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- system blks
25	Blank	25	IB04825	I81104W	50ppb ICV;MIX 5 10X ICV
26	Blank	26	IB04826	I81104W	50ppb ICV;special analytes mix
27	Blank	27	IB04827	I81104W	50ppb ICV;acrolein ICV 10x

Austin Laboratory

INSTRUMENT GCMS-I1
SHIFT (Circle): 1 2 3
COMPUTER CLOCK DATE / TIME: 14:06

ANALYST / DATE: KA 11/4/08
METHOD / TEST: 8260 - ICAL
SOP #: AU-MS-004, current revision

DAILY CHECK ✓	COLUMN CHANGED ✓	P&T MAINT. (Describe) ✓	
M. PUMP OIL ✓	TURBO OIL ✓	FILAMENT CHANGE ✓	OTHER N/A

DAILY CHECK includes sufficient carrier and detector gases, correct column flow/pressure, etc. Column and gases changed as needed. Source cleaned as needed. Mechanical pump oil and turbomolecular pump oil changed semiannually (usually on service contract). OTHER is for minor maintenance performed or for reference to Repair Log for major repairs.

MASS SPECTROMETER CONDITIONS:

Tune File: Atune.u
Elect Mult. 1224 volts
Tuning Performance: BFB
Sampling Rate 2^^ 4
Scan Range 35-300 amu
Interface: Open-Split

GC PROGRAM:

GC Meth. I81104.m
Inj. Temp 150 C
Carrier Gas: Helium
Flow/Pressure 1.3
Initial Temp. 35 C
Init.Hold 2 min
Ramp 9 C/min
Final Temp. 85 C
Final Hold 0 min
2nd Ramp 30 C/min
2nd Temp 210 C
2nd Hold 4 min
3rd Ramp C/min
3rd Temp C
3rd Hold min

GC COLUMN:

Column ID#: MSVOAID 010
Phases/Loadings: RTXVMS
Capillary i.d. 0.25 mm Length 30 m
Injection Type (Circle & Describe): Purge & Trap Tekmar Velocity/Solatek
Split 120:1
Splitless

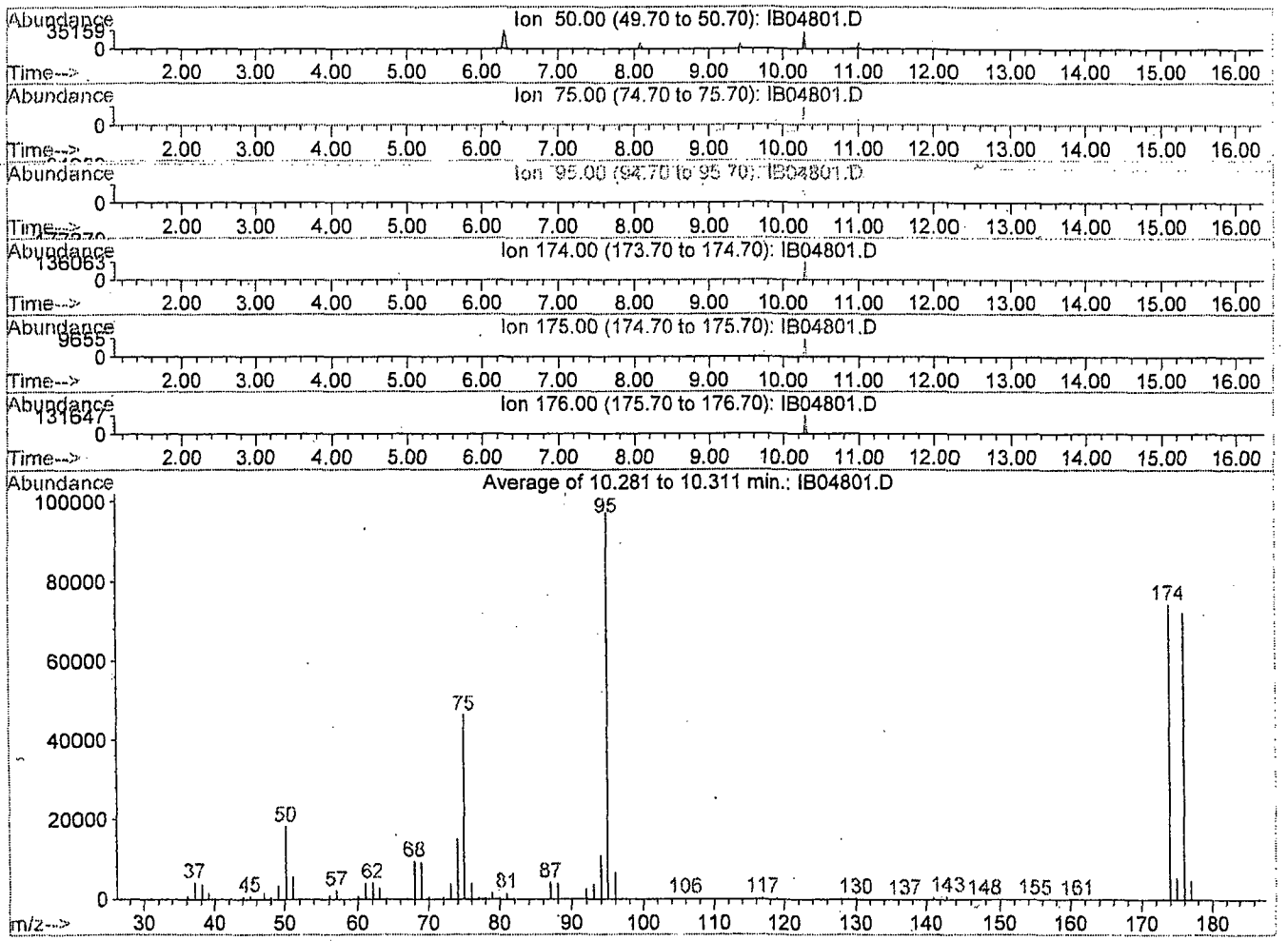
INSTRUMENT SEQUENCE:

KA 11/12/08

1	Blank	1	IB04801	I81104W	BLANK;BLANK BFB 14:06 11/4/08
2	Blank	~~2~~	~~IB04802~~	~~I81104W~~	~~BLANK;BLANK~~
3	Blank	~~3~~	~~IB04803~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- stabilizing blanks
4	Blank	~~4~~	~~IB04804~~	~~I81104W~~	~~BLANK;BLANK~~
5	Blank	5	IB04805	I81104W	STD 0.5ppb
6	Blank	6	IB04806	I81104W	STD 1ppb
7	Blank	7	IB04807	I81104W	STD 2ppb
8	Blank	8	IB04808	I81104W	STD 5ppb
9	Blank	9	IB04809	I81104W	STD 10ppb
10	Blank	10	IB04810	I81104W	STD 20ppb
11	Blank	11	IB04811	I81104W	STD 50ppb
12	Blank	12	IB04812	I81104W	STD 100ppb
13	Blank	~~13~~	~~IB04813~~	~~I81104W~~	~~BLANK;BLANK~~
14	Blank	~~14~~	~~IB04814~~	~~I81104W~~	~~BLANK;BLANK~~
15	Blank	~~15~~	~~IB04815~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- cleanup/ system blanks 11/7/08
16	Blank	~~16~~	~~IB04816~~	~~I81104W~~	~~BLANK;BLANK~~
17	Blank	~~17~~	~~IB04817~~	~~I81104W~~	~~NOT USED;special analyte mix~~ - wrong recipe
18	Blank	~~18~~	~~IB04818~~	~~I81104W~~	~~NOT USED;reactives mix~~
19	Blank	19	IB04819	I81104W	50ppb ICV;composite mix 17:26 11/5/08
20	Blank	~~20~~	~~IB04820~~	~~I81104W~~	~~BLANK;BLANK~~
21	Blank	~~21~~	~~IB04821~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- system blks
22	Blank	22	IB04822	I81104W	50ppb ICV;reactives mix Acrolein out
23	Blank	23	IB04823	I81104W	50ppb ICV;special analytes mi - wrong
24	Blank	~~24~~	~~IB04824~~	~~I81104W~~	~~BLANK;BLANK~~ Not used- system blks
25	Blank	25	IB04825	I81104W	50ppb ICV;MIX 5 10X ICV
26	Blank	26	IB04826	I81104W	50ppb ICV;special analytes mix
27	Blank	27	IB04827	I81104W	50ppb ICV;acrolein ICV 10x

BFB

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04801.D Vial: 1
Acq On : 4 Nov 2008 2:06 pm Operator: kma
Sample : BLANK;BLANK Inst : MSI
Misc : 1,1, 08MSV0798 IS 08MSV0682 SUR Multiplr: 1.00
MS Integration Params: VOA.P
Method : C:\HPCHEM\1\METHODS\I80916W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water



Spectrum Information: Average of 10.281 to 10.311 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	18377	PASS
75	95	30	60	47.8	46417	PASS
95	95	100	100	100.0	97040	PASS
96	95	5	9	6.9	6674	PASS
173	174	0.00	2	0.5	378	PASS
174	95	50	100	76.8	74575	PASS
175	174	5	9	7.2	5394	PASS
176	174	95	101	97.0	72327	PASS
177	176	5	9	6.5	4686	PASS

Injection Log

Directory: h:\msi.i\i110408.b

KA 11/10/08

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	ib04801.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS 08MSV0682 SUR	4 Nov 08 14:06
2	2	ib04802.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS	4 Nov 08 14:33
3	3	ib04803.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS	4 Nov 08 14:57
4	4	ib04804.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS	4 Nov 08 15:24
5	5	ib04805.d	1.	STD 0.5ppb	1,1, 0.5uL/50mL 08MSV0802	4 Nov 08 15:51
6	6	ib04806.d	1.	STD 1ppb	1,1, 1uL/50mL 08MSV0802	4 Nov 08 16:20
7	7	ib04807.d	1.	STD 2ppb	1,1, 2uL/50mL 08MSV0802	4 Nov 08 16:47
8	8	ib04808.d	1.	STD 5ppb	1,1, 5uL/50mL 08MSV0802	4 Nov 08 17:14
9	9	ib04809.d	1.	STD 10ppb	1,1, 10uL/50mL 08MSV0802	4 Nov 08 17:41
10	10	ib04810.d	1.	STD 20ppb	1,1, 20uL/50mL 08MSV0802	4 Nov 08 18:08
11	11	ib04811.d	1.	STD 50ppb	1,1, 50uL/50mL 08MSV0802	4 Nov 08 18:35
12	12	ib04812.d	1.	STD 100ppb	1,1, 100uL/50mL 08MSV0802	4 Nov 08 19:02
13	13	ib04813.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS	4 Nov 08 19:28
14	14	ib04814.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS	4 Nov 08 19:56
15	15	ib04815.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS 08MSV0682 SUR	5 Nov 08 14:16
16	16	ib04816.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS 08MSV0682 SUR	5 Nov 08 14:43
17	17	ib04817.d	1.	NOT USED;special analyte mix	1,1, 12.5uL/50mL 08MSV0818	5 Nov 08 16:31
18	18	ib04818.d	1.	50 PPB ICV;reactives mix,RC	1,1, 12.5uL/50mL 08MSV0817	5 Nov 08 16:58
19	19	ib04819.d	1.	50ppb ICV;composite mix,COMP	1,1, 12.5uL/50mL 08MSV0816	5 Nov 08 17:26
20	20	ib04820.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS 08MSV0682 SUR	6 Nov 08 10:49
21	21	ib04821.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS 08MSV0682 SUR	6 Nov 08 11:16
22	22	ib04822.d	1.	50ppb ICV;reactives mix,RC	1,1, 12.5/50 08MSV0819/810 25/50 08MSV0	6 Nov 08 11:43
23	23	ib04823.d	1.	50ppb ICV;special analytes mix,SPECIAL	1,1, 12.5/50 08MSV0820	6 Nov 08 12:10
24	24	ib04824.d	1.	BLANK;BLANK	1,1, 08MSV0798 IS 08MSV0682 SUR	6 Nov 08 15:12
25	25	ib04825.d	1.	50ppb ICV;MIX 5 10X ICV,MIX5	1,1, 12.5uL/50mL 08MSV0822	6 Nov 08 15:39
26	26	ib04826.d	1.	50ppb ICV;special analytes mix,SPECIAL	1,1, 12.5uL/50mL 08MSV0821	6 Nov 08 16:07
27	27	ib04827.d	1.	50ppb ICV;acrolein ICV 10x,RC	1,1, 12.5uL/50mL 08MSV0824	7 Nov 08 07:54

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04805.D
Acq On : 4 Nov 2008 3:51 pm
Sample : STD 0.5ppb
Misc : 1,1, 0.5uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 7 13:59 19108

Vial: 5
Operator: kma
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	712521	16.7000	PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	142601	16.7000	PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	186238	16.7000	PPB	0.00
System Monitoring Compounds						
42) Dibromofluoromethane (Surr	5.43	113	5406	0.5759	PPB	0.00
Spiked Amount 16.700			Recovery	=	3.47%	
50) 1,2-Dichloroethane-d4 (Sur	6.00	67	3561	0.7360	PPB	0.00
Spiked Amount 16.700			Recovery	=	4.43%	
64) Toluene-d8 (Surr)	8.09	98	21017	0.5178	PPB	0.00
Spiked Amount 16.700			Recovery	=	3.11%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	7266	0.5714	PPB	0.00
Spiked Amount 16.700			Recovery	=	3.41%	

Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	9406	0.6403	PPB		100
3) Chloromethane (SPCC)	1.78	50	8355	0.4340	PPB		97
4) Vinyl chloride (CCC)	1.87	62	9505	0.5487	PPB		98
5) Bromomethane	2.19	94	6207	0.7316	PPB		98
6) Ethylene oxide	2.29	44	11755	10.2730	PPB		96
7) Chloroethane	2.32	64	6593	0.5852	PPB		97
8) Trichlorofluoromethane	2.48	101	10532	0.6550	PPB		98
9) Ethyl ether	2.80	59	4845	0.6754	PPB		95
11) 1,1-Dichloroethene (CCC)	2.99	96	6111	0.6010	PPB		97
12) Carbon disulfide	3.01	76	20562	0.5532	PPB		94
13) 1,1,2-Trichlorotrifluoroet	3.05	101	6170	0.6169	PPB		98
14) Propylene oxide	3.13	58	3146	3.1194	PPB		98
16) Bromoethane	3.25	108	4730	0.5562	PPB		95
17) Acrolein	3.35	56	1371	2.1608	PPB		95
18) 3-Chloropropene	3.48	41	11404	0.5433	PPB		96
19) Methylene chloride	3.59	84	7026	0.6543	PPB		94
20) Acetone	3.67	58	204	0.5384	PPB	#	1
21) trans-1,2-Dichloroethene	3.75	96	6816	0.6007	PPB		98
22) Methyl acetate	3.79	74	1100	1.3582	PPB	#	59
23) Hexane	3.84	86	2287	0.5491	PPB	#	82
24) Methyl tert-butyl ether (M	3.87	73	12936	0.6419	PPB		94
25) tert-Butyl alcohol	3.99	59	5558	30.1905	PPB		75
26) Acetonitrile	4.12	40	1228	5.3091	PPB		84
27) Isopropyl ether	4.27	45	23137	0.6098	PPB		95
28) 2-Chloro-1,3-butadiene	4.36	88	4564	0.4740	PPB		91
29) 1,1-Dichloroethane (SPCC)	4.39	63	13135	0.6020	PPB		100
30) Acrylonitrile	4.45	53	5767	3.6554	PPB		97
31) Vinyl acetate	4.67	43	6443	0.5394	PPB		94
32) cis-1,2-Dichloroethene	4.95	96	6881	0.5800	PPB		94
33) 2,2-Dichloropropane	5.05	77	9456	0.5533	PPB		90
34) Cyclohexane	5.15	56	12678	0.5898	PPB		94
35) Bromochloromethane	5.16	130	3145	0.6000	PPB		87
37) Chloroform (CCC)	5.25	83	11181	0.6228	PPB		96
38) Carbon tetrachloride	5.38	117	7525	0.5834	PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04805.D
Acq On : 4 Nov 2008 3:51 pm
Sample : STD 0.5ppb
Misc : 1,1, 0.5uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 7 13:59 19108

Vial: 5
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
40)	Ethyl acetate	5.38	43	14307	3.4076 PPB		96
43)	1,1,1-Trichloroethane	5.44	97	9337	0.6015 PPB		96
44)	1,1-Dichloropropene	5.58	75	8819	0.5638 PPB		97
45)	2-Butanone (MEK)	5.58	43	1508	0.9319 PPB		67
46)	Benzene	5.85	78	28224	0.5734 PPB		98
48)	Propanenitrile	5.89	54	1950	3.6107 PPB		83
49)	Methacrylonitrile	5.90	67	6455	3.0002 PPB		92
51)	1,2-Dichloroethane	6.06	62	7122	0.7129 PPB		98
52)	Isobutyl alcohol	6.14	43	2285	25.9375 PPB		87
53)	Methylcyclohexane	6.47	83	21967	1.0772 PPB		96
54)	Trichloroethene	6.50	130	6759	0.5805 PPB		97
55)	Dibromomethane	6.97	93	2392	0.6472 PPB		94
56)	n-Butanol	6.94	56	2151	88.1889 PPB		87
57)	1,2-Dichloropropane (CCC)	7.09	63	6633	0.6088 PPB		84
58)	Bromodichloromethane	7.17	83	7128	0.5970 PPB		90
59)	1,4-Dioxane	7.43	88	557	34.2332 PPB	#	52
60)	Methyl methacrylate	7.37	69	1689	0.4704 PPB		97
61)	1-Bromo-2-chloroethane	7.73	63	6820	0.6473 PPB	#	96
62)	cis-1,3-Dichloropropene	7.90	75	7953	0.5070 PPB		99
63)	2-Chloroethyl vinyl ether	7.85	63	1150	0.3610 PPB		80
66)	Toluene (CCC)	8.14	91	26162	0.5711 PPB		98
67)	Epichlorohydrin	8.17	57	1204	3.7268 PPB		72
68)	2-Nitropropane	8.36	43	453	0.3936 PPB	#	86
69)	Tetrachloroethene	8.50	164	4725	0.5897 PPB		99
70)	4-Methyl-2-pentanone (MIBK	8.52	43	2118	0.5849 PPB		89
71)	trans-1,3-Dichloropropene	8.55	75	5700	0.5365 PPB		92
72)	1,1,2-Trichloroethane	8.69	97	3368	0.6394 PPB		86
73)	4-Methyl-2-pentanol (MIBC)	8.63	45	1353	3.3218 PPB		82
74)	Ethyl methacrylate	8.70	69	2914	0.4240 PPB		91
75)	Dibromochloromethane	8.84	129	3373	0.5882 PPB		98
76)	1,3-Dichloropropane	8.92	76	7653	0.7259 PPB		95
77)	1,2-Dibromoethane (EDB)	9.02	107	3062	0.6650 PPB		96
79)	Chlorobenzene (SPCC)	9.44	112	17347	0.6260 PPB		81
80)	1-Chlorohexane	9.43	55	10857	1.0041 PPB		71
81)	Ethylbenzene (CCC)	9.46	106	9562	0.5817 PPB	#	84
82)	1,1,1,2-Tetrachloroethane	9.49	131	4650	0.5655 PPB		92
83)	m&p-Xylene	9.57	106	22350	1.0903 PPB		95
84)	o-Xylene	9.88	106	9898	0.5153 PPB		95
85)	Bromoform (SPCC)	9.94	173	1400	0.5016 PPB		88
86)	Styrene	9.92	104	12255	0.4298 PPB		99
87)	Isopropylbenzene	10.10	105	23665	0.5238 PPB		99
88)	Bromobenzene	10.36	156	5028	0.5444 PPB	#	86
89)	n-Propylbenzene	10.38	120	6305	0.4709 PPB	#	81
90)	1,1,2,2-Tetrachloroethane	10.43	83	3566	0.6938 PPB		97
93)	2-Chlorotoluene	10.48	126	5818	0.5376 PPB		90
95)	1,2,3-Trichloropropane	10.52	110	1237	0.7789 PPB		91
96)	trans-1,4-Dichloro-2-buten	10.54	53	640	0.4544 PPB	#	52
97)	3-Ethyltoluene	10.43	105	23399	0.5107 PPB		97
98)	4-Chlorotoluene	10.59	126	5725	0.5321 PPB		86

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04805.D
Acq On : 4 Nov 2008 3:51 pm
Sample : STD 0.5ppb
Misc : 1,1, 0.5uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 7 13:59 19108

Vial: 5
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

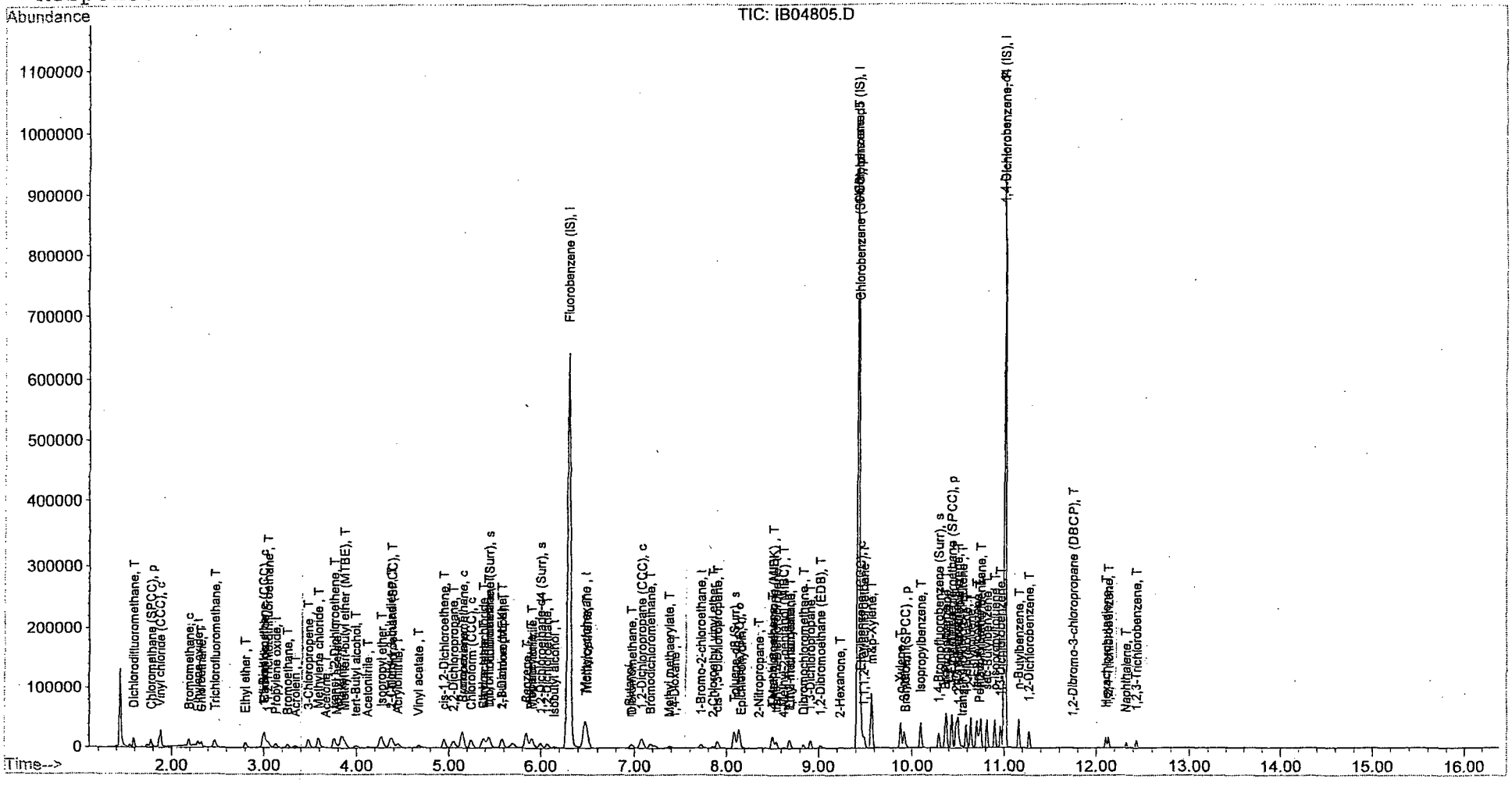
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
99)	1,3,5-Trimethylbenzene	10.50	105	20071	0.5202 PPB		68
100)	2-Ethyltoluene	10.64	105	24341	0.5319 PPB		75
101)	tert-Butylbenzene	10.71	91	11750	0.5589 PPB		81
102)	Pentachloroethane	10.73	167	2385	0.4629 PPB		86
103)	1,2,4-Trimethylbenzene	10.75	105	19437	0.5049 PPB		98
104)	sec-Butylbenzene	10.82	105	26193	0.5479 PPB		97
105)	p-Isopropyltoluene	10.90	119	20566	0.4934 PPB		98
106)	1,3-Dichlorobenzene	10.96	146	10809	0.5846 PPB		99
107)	1,4-Dichlorobenzene	11.02	146	11850	0.6157 PPB		82
109)	n-Butylbenzene	11.16	134	4807	0.4552 PPB		96
110)	1,2-Dichlorobenzene	11.28	146	8742	0.5943 PPB		98
112)	1,2-Dibromo-3-chloropropan	11.75	157	278	2.5565 PPB	#	76
113)	Hexachlorobutadiene	12.11	225	2708	0.4792 PPB		98
114)	1,2,4-Trichlorobenzene	12.14	180	4257	0.4836 PPB		98
115)	Naphthalene	12.32	128	5006	0.4189 PPB		99
116)	1,2,3-Trichlorobenzene	12.43	180	3077	0.5169 PPB		97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04805.D Vial: 5
Acq On : 4 Nov 2008 3:51 pm Operator: kma
Sample : STD 0.5ppb Inst : MSI
Misc : 1,1, 0.5uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 16:07 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) KA

NOV 0 6 2008

Data File : H:\MSI.I\I110408.B\IB04806.D
Acq On : 4 Nov 2008 4:20 pm
Sample : STD 1ppb
Misc : 1,1, 1uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 5 11:34 19108

Vial: 6
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	712992	16.7000	PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	142545	16.7000	PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	187862	16.7000	PPB	0.00
System Monitoring Compounds						
42) Dibromofluoromethane (Surr	5.43	113	10353	1.1022	PPB	0.00
Spiked Amount 16.700			Recovery	=	6.59%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	6645	1.3725	PPB	0.00
Spiked Amount 16.700			Recovery	=	8.20%	
64) Toluene-d8 (Surr)	8.09	98	39966	0.9840	PPB	0.00
Spiked Amount 16.700			Recovery	=	5.87%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	13665	1.0750	PPB	0.00
Spiked Amount 16.700			Recovery	=	6.41%	

Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	16545	1.1255	PPB		98
3) Chloromethane (SPCC)	1.77	50	15488	0.8040	PPB		96
4) Vinyl chloride (CCC)	1.86	62	17403	1.0039	PPB		93
5) Bromomethane	2.19	94	10758	1.2671	PPB		99
6) Ethylene oxide	2.29	44	18165	15.8643	PPB		92
7) Chloroethane	2.32	64	12462	1.1054	PPB		98
8) Trichlorofluoromethane	2.47	101	18339	1.1398	PPB		99
9) Ethyl ether	2.80	59	9006	1.2546	PPB		95
10) Ethanol	2.98	45	1401	63.2878	PPB	#	70
11) 1,1-Dichloroethene (CCC)	2.99	96	10947	1.0759	PPB		96
12) Carbon disulfide	3.01	76	36120	0.9712	PPB		96
13) 1,1,2-Trichlorotrifluoroet	3.04	101	11138	1.1129	PPB		98
14) Propylene oxide	3.12	58	6185	6.1286	PPB		98
15) Iodomethane	3.12	142	5937	0.3661	PPB		97
16) Bromoethane	3.25	108	8771	1.0307	PPB		100
17) Acrolein	3.35	56	2819	4.4401	PPB		97
18) 3-Chloropropene	3.48	41	20897	0.9949	PPB		97
19) Methylene chloride	3.59	84	12853	1.1962	PPB		98
20) Acetone	3.65	58	484	1.2766	PPB	#	1
21) trans-1,2-Dichloroethene	3.76	96	11841	1.0429	PPB		94
22) Methyl acetate	3.79	74	2226	2.7466	PPB	#	79
23) Hexane	3.83	86	4034	0.9680	PPB	#	80
24) Methyl tert-butyl ether (M	3.87	73	25459	1.2624	PPB		88
25) tert-Butyl alcohol	3.99	59	11659	63.2886	PPB		80
26) Acetonitrile	4.12	40	2164	9.3496	PPB	#	79
27) Isopropyl ether	4.27	45	44164	1.1632	PPB		98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04806.D
Acq On : 4 Nov 2008 4:20 pm
Sample : STD 1ppb
Misc : 1,1, 1uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 5 11:34 19108

Vial: 6
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) 2-Chloro-1,3-butadiene	4.36	88	8278	0.8592 PPB		87
29) 1,1-Dichloroethane (SPCC)	4.38	63	24221	1.1094 PPB		99
30) Acrylonitrile	4.44	53	11261	7.1330 PPB		100
31) Vinyl acetate	4.66	43	12414	1.0385 PPB		95
32) cis-1,2-Dichloroethene	4.95	96	12431	1.0471 PPB		97
33) 2,2-Dichloropropane	5.05	77	18049	1.0554 PPB		94
34) Cyclohexane	5.15	56	22230	1.0335 PPB		94
35) Bromochloromethane	5.15	130	5981	1.1404 PPB		90
37) Chloroform (CCC)	5.25	83	20820	1.1589 PPB		98
38) Carbon tetrachloride	5.37	117	13751	1.0655 PPB		99
40) Ethyl acetate	5.39	43	27807	6.6186 PPB		97
41) Tetrahydrofuran	5.42	72	559	0.8866 PPB	#	29
43) 1,1,1-Trichloroethane	5.44	97	17099	1.1009 PPB		98
44) 1,1-Dichloropropene	5.57	75	16057	1.0259 PPB		96
45) 2-Butanone (MEK)	5.58	43	2984	1.8428 PPB		63
46) Benzene	5.84	78	51710	1.0498 PPB		99
48) Propanenitrile	5.88	54	4045	7.4850 PPB		96
49) Methacrylonitrile	5.90	67	12310	5.7177 PPB		88
51) 1,2-Dichloroethane	6.07	62	13056	1.3059 PPB		100
52) Isobutyl alcohol	6.14	43	4547	51.5799 PPB		87
53) Methylcyclohexane	6.47	83	39700	1.9456 PPB		96
54) Trichloroethene	6.50	130	11803	1.0130 PPB		93
55) Dibromomethane	6.97	93	4339	1.1731 PPB		95
56) n-Butanol	6.94	56	4679	134.4027 PPB		88
57) 1,2-Dichloropropane (CCC)	7.08	63	11945	1.0956 PPB		89
58) Bromodichloromethane	7.17	83	13050	1.0924 PPB		95
59) 1,4-Dioxane	7.42	88	1151	70.6936 PPB		93
60) Methyl methacrylate	7.38	69	3070	0.8544 PPB		80
61) 1-Bromo-2-chloroethane	7.72	63	12999	1.2329 PPB		97
62) cis-1,3-Dichloropropene	7.90	75	15318	0.9759 PPB		96
63) 2-Chloroethyl vinyl ether	7.86	63	2535	0.7952 PPB		90
66) Toluene (CCC)	8.14	91	49824	1.0880 PPB		98
67) Epichlorohydrin	8.16	57	2187	6.7722 PPB	#	18
68) 2-Nitropropane	8.37	43	949	0.8248 PPB		88
69) Tetrachloroethene	8.51	164	8229	1.0275 PPB		95
70) 4-Methyl-2-pentanone (MIBK	8.51	43	4276	1.1812 PPB		93
71) trans-1,3-Dichloropropene	8.54	75	11148	1.0497 PPB		98
72) 1,1,2-Trichloroethane	8.69	97	6715	1.2753 PPB		93
73) 4-Methyl-2-pentanol (MIBC)	8.62	45	2814	6.9114 PPB		73
74) Ethyl methacrylate	8.70	69	5826	0.8480 PPB		92
75) Dibromochloromethane	8.84	129	6510	1.1356 PPB		95

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04806.D
Acq On : 4 Nov 2008 4:20 pm
Sample : STD 1ppb
Misc : 1,1, 1uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 5 11:34 19108

Vial: 6
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

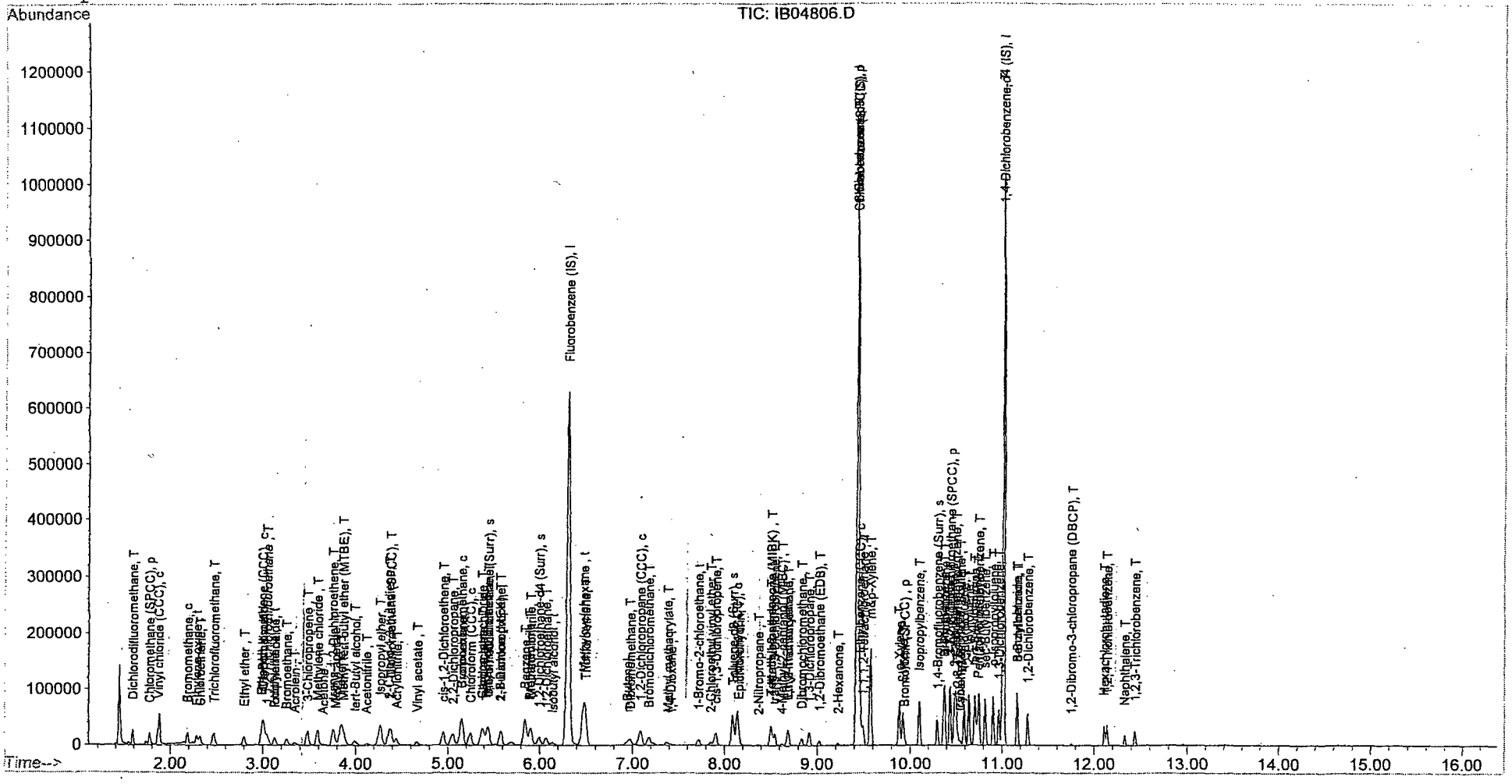
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	13900	1.3189 PPB		94
77)	1,2-Dibromoethane (EDB)	9.02	107	5764	1.2523 PPB		97
78)	2-Hexanone	9.22	43	2376	1.1299 PPB		89
79)	Chlorobenzene (SPCC)	9.44	112	31018	1.1199 PPB		88
80)	1-Chlorohexane	9.43	55	15982	1.4322 PPB		82
81)	Ethylbenzene (CCC)	9.46	106	16903	1.0286 PPB	#	83
82)	1,1,1,2-Tetrachloroethane	9.49	131	9127	1.1104 PPB		94
83)	m&p-Xylene	9.57	106	41504	2.0254 PPB		94
84)	o-Xylene	9.88	106	18837	0.9810 PPB		94
85)	Bromoform (SPCC)	9.94	173	2730	0.9784 PPB		94
86)	Styrene	9.92	104	23747	0.8331 PPB		96
87)	Isopropylbenzene	10.09	105	45015	0.9968 PPB		98
88)	Bromobenzene	10.36	156	9320	1.0095 PPB	#	87
89)	n-Propylbenzene	10.37	120	12129	0.9061 PPB	#	82
90)	1,1,2,2-Tetrachloroethane	10.43	83	7023	1.3669 PPB		97
93)	2-Chlorotoluene	10.48	126	11002	1.0078 PPB		88
94)	Cyclohexanone	10.54	42	341	8.5726 PPB	#	65
95)	1,2,3-Trichloropropane	10.52	110	2376	1.4832 PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	1305	0.9186 PPB		72
97)	3-Ethyltoluene	10.43	105	45075	0.9754 PPB		98
98)	4-Chlorotoluene	10.59	126	10636	0.9801 PPB		88
99)	1,3,5-Trimethylbenzene	10.50	105	38749	0.9956 PPB		69
100)	2-Ethyltoluene	10.64	105	47269	1.0241 PPB		75
101)	tert-Butylbenzene	10.70	91	22202	1.0469 PPB		82
102)	Pentachloroethane	10.73	167	4644	0.8936 PPB		85
103)	1,2,4-Trimethylbenzene	10.75	105	39102	1.0070 PPB		97
104)	sec-Butylbenzene	10.82	105	48605	1.0079 PPB		97
105)	p-Isopropyltoluene	10.90	119	39995	0.9512 PPB		98
106)	1,3-Dichlorobenzene	10.96	146	19770	1.0600 PPB		98
107)	1,4-Dichlorobenzene	11.01	146	21459	1.1054 PPB		88
108)	Benzyl chloride	11.16	126	1023	0.4190 PPB	#	1
109)	n-Butylbenzene	11.16	134	8825	0.8285 PPB		91
110)	1,2-Dichlorobenzene	11.27	146	16413	1.1062 PPB		98
112)	1,2-Dibromo-3-chloropropan	11.76	157	551	2.8898 PPB	#	68
113)	Hexachlorobutadiene	12.11	225	5254	0.9218 PPB		97
114)	1,2,4-Trichlorobenzene	12.14	180	8525	0.9602 PPB		95
115)	Naphthalene	12.33	128	10727	0.8898 PPB		99
116)	1,2,3-Trichlorobenzene	12.44	180	6195	1.0316 PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04806.D Vial: 6
Acq On : 4 Nov 2008 4:20 pm Operator: kma
Sample : STD 1ppb Inst : MSI
Misc : 1,1, 1uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 16:36 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



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Quantitation Report (QT Reviewed) KA

NOV 06 2008

Data File : H:\MSI.I\I110408.B\IB04807.D
Acq On : 4 Nov 2008 4:47 pm
Sample : STD 2ppb
Misc : 1,1, 2uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 5 11:34 19108

Vial: 7
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	706883	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	141692	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	189195	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.44	113	19298	2.0722 PPB	0.00
Spiked Amount 16.700			Recovery	= 12.40%	
50) 1,2-Dichloroethane-d4 (Sur	6.00	67	11854	2.4695 PPB	0.00
Spiked Amount 16.700			Recovery	= 14.79%	
64) Toluene-d8 (Surr)	8.09	98	75512	1.8752 PPB	0.00
Spiked Amount 16.700			Recovery	= 11.26%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	25644	2.0294 PPB	0.00
Spiked Amount 16.700			Recovery	= 12.16%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	29370	2.0152 PPB	99
3) Chloromethane (SPCC)	1.77	50	28164	1.4747 PPB	100
4) Vinyl chloride (CCC)	1.87	62	30065	1.7493 PPB	95
5) Bromomethane	2.19	94	17501	2.0792 PPB	98
6) Ethylene oxide	2.29	44	32010	28.1974 PPB	96
7) Chloroethane	2.32	64	22190	1.9853 PPB	100
8) Trichlorofluoromethane	2.47	101	32539	2.0398 PPB	100
9) Ethyl ether	2.80	59	17087	2.4008 PPB	97
10) Ethanol	2.98	45	2917	132.9094 PPB	74
11) 1,1-Dichloroethene (CCC)	2.99	96	19171	1.9005 PPB	96
12) Carbon disulfide	3.01	76	67454	1.8294 PPB	98
13) 1,1,2-Trichlorotrifluoroet	3.05	101	18992	1.9140 PPB	97
14) Propylene oxide	3.12	58	11554	11.5475 PPB	91
15) Iodomethane	3.12	142	14634	0.9103 PPB	94
16) Bromoethane	3.25	108	16655	1.9742 PPB	100
17) Acrolein	3.35	56	5583	8.8696 PPB	97
18) 3-Chloropropene	3.48	41	40856	1.9619 PPB	98
19) Methylene chloride	3.59	84	23298	2.1870 PPB	96
20) Acetone	3.65	58	993	2.6418 PPB #	42
21) trans-1,2-Dichloroethene	3.76	96	22350	1.9855 PPB	96
22) Methyl acetate	3.78	74	4181	5.2035 PPB	90
23) Hexane	3.84	86	7258	1.7567 PPB #	76
24) Methyl tert-butyl ether (M	3.87	73	47230	2.3622 PPB	86
25) tert-Butyl alcohol	3.99	59	22279	121.9824 PPB	81
26) Acetonitrile	4.12	40	4221	18.3945 PPB	91
27) Isopropyl ether	4.27	45	84052	2.2330 PPB	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

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Sample : STD 2ppb
Misc : 1,1, 2uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 5 11:34 19108

Vial: 7
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
28) 2-Chloro-1,3-butadiene	4.36	88	15701	1.6437 PPB		88
29) 1,1-Dichloroethane (SPCC)	4.38	63	45206	2.0884 PPB		100
30) Acrylonitrile	4.44	53	21021	13.4303 PPB		96
31) Vinyl acetate	4.66	43	25754	2.1731 PPB		97
32) cis-1,2-Dichloroethene	4.95	96	23980	2.0373 PPB		96
33) 2,2-Dichloropropane	5.05	77	32672	1.9270 PPB		95
34) Cyclohexane	5.15	56	39984	1.8749 PPB		96
35) Bromochloromethane	5.15	130	11011	2.1176 PPB		87
37) Chloroform (CCC)	5.25	83	39062	2.1930 PPB		99
38) Carbon tetrachloride	5.37	117	24514	1.9158 PPB		98
40) Ethyl acetate	5.38	43	53698	12.8915 PPB		98
41) Tetrahydrofuran	5.41	72	1457	2.3308 PPB	#	81
43) 1,1,1-Trichloroethane	5.44	97	31266	2.0303 PPB		98
44) 1,1-Dichloropropene	5.58	75	29687	1.9132 PPB		98
45) 2-Butanone (MEK)	5.58	43	4421	2.7538 PPB		85
46) Benzene	5.84	78	97242	1.9912 PPB		99
48) Propanenitrile	5.88	54	8136	15.1853 PPB		95
49) Methacrylonitrile	5.90	67	24705	11.5741 PPB		89
51) 1,2-Dichloroethane	6.07	62	24593	2.4812 PPB		97
52) Isobutyl alcohol	6.14	43	8817	100.8819 PPB		85
53) Methylcyclohexane	6.48	83	69959	3.4581 PPB		96
54) Trichloroethene	6.50	130	22367	1.9363 PPB		96
55) Dibromomethane	6.97	93	8303	2.2643 PPB		96
56) n-Butanol	6.93	56	9345	222.1908 PPB		88
57) 1,2-Dichloropropane (CCC)	7.08	63	22635	2.0941 PPB		90
58) Bromodichloromethane	7.18	83	25163	2.1245 PPB		98
59) 1,4-Dioxane	7.42	88	2421	149.9812 PPB		97
60) Methyl methacrylate	7.38	69	6762	1.8982 PPB		91
61) 1-Bromo-2-chloroethane	7.72	63	23973	2.2934 PPB		99
62) cis-1,3-Dichloropropene	7.90	75	30634	1.9685 PPB		97
63) 2-Chloroethyl vinyl ether	7.85	63	5885	1.8620 PPB		98
66) Toluene (CCC)	8.14	91	94402	2.0739 PPB		98
67) Epichlorohydrin	8.17	57	4596	14.3175 PPB		89
68) 2-Nitropropane	8.37	43	1856	1.6229 PPB		88
69) Tetrachloroethene	8.51	164	14672	1.8430 PPB		96
70) 4-Methyl-2-pentanone (MIBK	8.51	43	8976	2.4946 PPB		94
71) trans-1,3-Dichloropropene	8.55	75	23168	2.1946 PPB		97
72) 1,1,2-Trichloroethane	8.69	97	13151	2.5126 PPB		94
73) 4-Methyl-2-pentanol (MIBC)	8.62	45	6190	15.2947 PPB		75
74) Ethyl methacrylate	8.70	69	13071	1.9139 PPB		90
75) Dibromochloromethane	8.84	129	12818	2.2495 PPB		98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

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Sample : STD 2ppb
Misc : 1,1, 2uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 5 11:34 19108

Vial: 7
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	26459	2.5256 PPB		94
77)	1,2-Dibromoethane (EDB)	9.02	107	11060	2.4174 PPB		97
78)	2-Hexanone	9.23	43	4987	2.3858 PPB		93
79)	Chlorobenzene (SPCC)	9.44	112	56966	2.0691 PPB		92
80)	1-Chlorohexane	9.43	55	25033	2.2024 PPB		92
81)	Ethylbenzene (CCC)	9.46	106	31113	1.9047 PPB		86
82)	1,1,1,2-Tetrachloroethane	9.49	131	17059	2.0880 PPB		98
83)	m&p-Xylene	9.57	106	78015	3.8301 PPB		93
84)	o-Xylene	9.88	106	35621	1.8663 PPB		93
85)	Bromoform (SPCC)	9.94	173	5512	1.9874 PPB		98
86)	Styrene	9.92	104	49102	1.7330 PPB		96
87)	Isopropylbenzene	10.10	105	85488	1.9044 PPB		97
88)	Bromobenzene	10.36	156	18384	2.0033 PPB	#	88
89)	n-Propylbenzene	10.38	120	23953	1.8003 PPB		89
90)	1,1,2,2-Tetrachloroethane	10.43	83	13256	2.5956 PPB		97
93)	2-Chlorotoluene	10.48	126	20612	1.8749 PPB	#	86
94)	Cyclohexanone	10.55	42	1005	25.0873 PPB		86
95)	1,2,3-Trichloropropane	10.52	110	4582	2.8402 PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	2835	1.9816 PPB		75
97)	3-Ethyltoluene	10.43	105	88481	1.9011 PPB		99
98)	4-Chlorotoluene	10.59	126	20634	1.8880 PPB		89
99)	1,3,5-Trimethylbenzene	10.50	105	74766	1.9075 PPB		68
100)	2-Ethyltoluene	10.64	105	91366	1.9654 PPB		75
101)	tert-Butylbenzene	10.70	91	42018	1.9674 PPB	#	81
102)	Pentachloroethane	10.73	167	10018	1.9141 PPB		92
103)	1,2,4-Trimethylbenzene	10.75	105	75670	1.9350 PPB		98
104)	sec-Butylbenzene	10.81	105	91562	1.8853 PPB		98
105)	p-Isopropyltoluene	10.90	119	77191	1.8228 PPB		97
106)	1,3-Dichlorobenzene	10.96	146	37514	1.9972 PPB		99
107)	1,4-Dichlorobenzene	11.01	146	40084	2.0502 PPB		94
108)	Benzyl chloride	11.17	126	2300	0.9353 PPB	#	1
109)	n-Butylbenzene	11.16	134	16626	1.5499 PPB	#	83
110)	1,2-Dichlorobenzene	11.28	146	30711	2.0553 PPB		97
112)	1,2-Dibromo-3-chloropropan	11.75	157	1189	3.6653 PPB		80
113)	Hexachlorobutadiene	12.11	225	9320	1.6236 PPB		97
114)	1,2,4-Trichlorobenzene	12.14	180	15721	1.7582 PPB		98
115)	Naphthalene	12.33	128	22287	1.8356 PPB		99
116)	1,2,3-Trichlorobenzene	12.43	180	11925	1.9719 PPB		98

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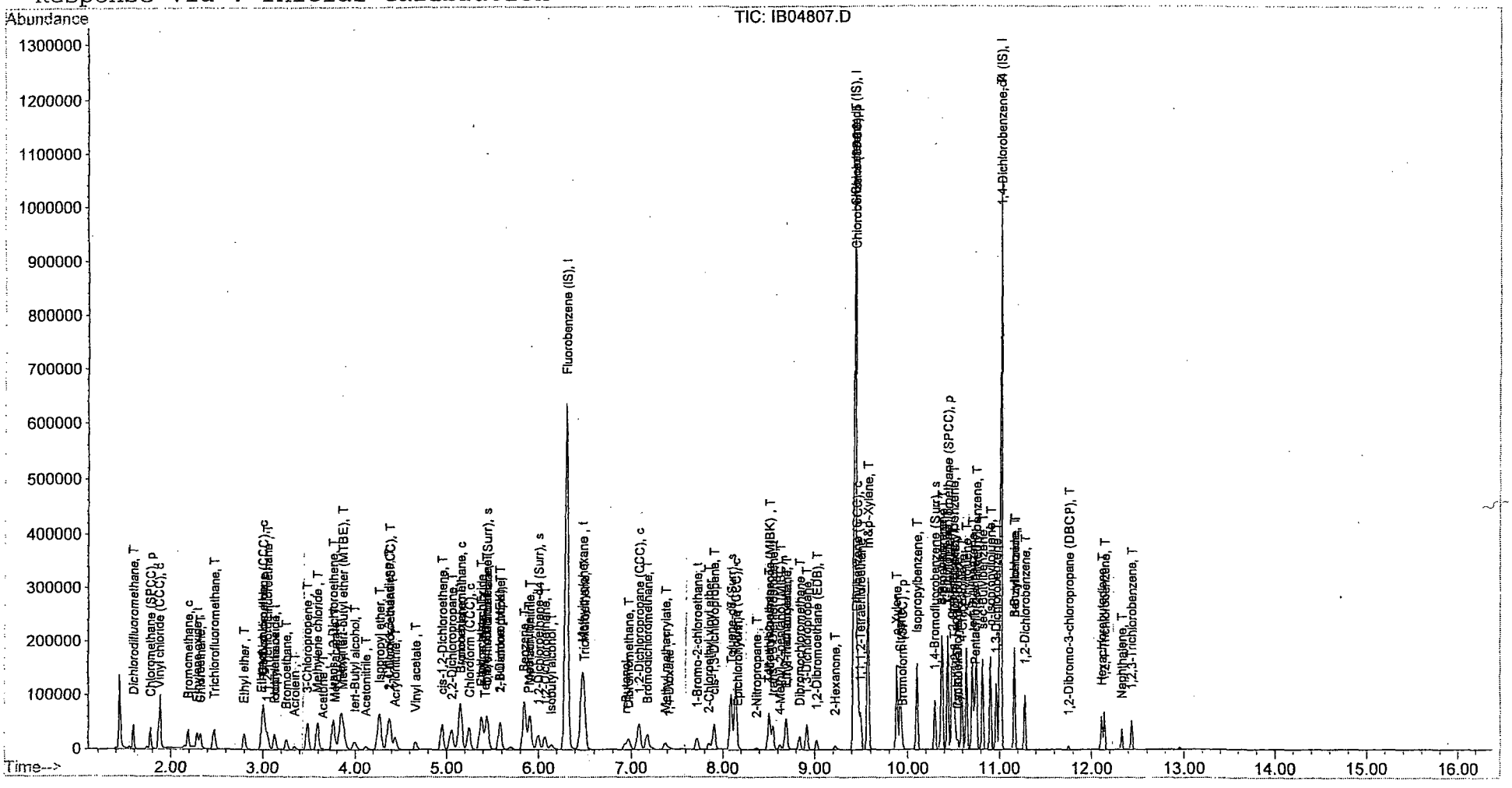
Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04807.D Vial: 7
Acq On : 4 Nov 2008 4:47 pm Operator: kma
Sample : STD 2ppb Inst : MSI
Misc : 1,1, 2uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 17:03 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) YA

NOV 0 6 20

Data File : H:\MSI.I\I110408.B\IB04808.D Vial: 8
Acq On : 4 Nov 2008 5:14 pm Operator: kma
Sample : STD 5ppb Inst : MSI
Misc : 1,1, 5uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 17:30 19108 Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	697195	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	142180	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	191180	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	48817	5.3147 PPB	0.00
Spiked Amount 16.700			Recovery	= 31.80%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	27745	5.8603 PPB	0.00
Spiked Amount 16.700			Recovery	= 35.09%	
64) Toluene-d8 (Surr)	8.08	98	192128	4.8375 PPB	0.00
Spiked Amount 16.700			Recovery	= 28.98%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	64831	5.1131 PPB	0.00
Spiked Amount 16.700			Recovery	= 30.60%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	77969	5.4242 PPB	100
3) Chloromethane (SPCC)	1.78	50	77076	4.0919 PPB	99
4) Vinyl chloride (CCC)	1.87	62	80591	4.7544 PPB	100
5) Bromomethane	2.19	94	40152	4.8364 PPB	99
6) Ethylene oxide	2.29	44	78132	69.7824 PPB	98
7) Chloroethane	2.32	64	55068	4.9953 PPB	99
8) Trichlorofluoromethane	2.47	101	84590	5.3763 PPB	99
9) Ethyl ether	2.80	59	42378	6.0371 PPB	96
10) Ethanol	2.97	45	7036	325.0411 PPB	74
11) 1,1-Dichloroethene (CCC)	2.99	96	50233	5.0490 PPB	95
12) Carbon disulfide	3.01	76	175937	4.8378 PPB	99
13) 1,1,2-Trichlorotrifluoroet	3.05	101	49466	5.0545 PPB	98
14) Propylene oxide	3.12	58	29918	30.3167 PPB	96
15) Iodomethane	3.13	142	54509	3.4377 PPB	96
16) Bromoethane	3.25	108	40562	4.8748 PPB	100
17) Acrolein	3.35	56	14232	22.9242 PPB	97
18) 3-Chloropropene	3.48	41	104961	5.1103 PPB	97
19) Methylene chloride	3.59	84	57692	5.4909 PPB	97
20) Acetone	3.65	58	2394	6.4575 PPB #	66
21) trans-1,2-Dichloroethene	3.76	96	56683	5.1055 PPB	98
22) Methyl acetate	3.78	74	11346	14.3169 PPB	97
23) Hexane	3.84	86	19147	4.6986 PPB #	76
24) Methyl tert-butyl ether (M	3.87	73	119432	6.0564 PPB	89
25) tert-Butyl alcohol	3.99	59	54166	300.6919 PPB	91
26) Acetonitrile	4.12	40	10714	47.3389 PPB	85
27) Isopropyl ether	4.26	45	213198	5.7427 PPB	97

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Acq On : 4 Nov 2008 5:14 pm
Sample : STD 5ppb
Misc : 1,1, 5uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 17:30 19108

Vial: 8
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
28)	2-Chloro-1,3-butadiene	4.36	88	43577	4.6253	PPB		88
29)	1,1-Dichloroethane (SPCC)	4.39	63	111783	5.2358	PPB		99
30)	Acrylonitrile	4.44	53	53850	34.8827	PPB		94
31)	Vinyl acetate	4.66	43	68046	5.8216	PPB		98
32)	cis-1,2-Dichloroethene	4.95	96	59367	5.1139	PPB		98
33)	2,2-Dichloropropane	5.05	77	84713	5.0658	PPB		97
34)	Cyclohexane	5.15	56	107408	5.1064	PPB		96
35)	Bromochloromethane	5.15	130	27416	5.3458	PPB		90
37)	Chloroform (CCC)	5.24	83	97435	5.5462	PPB		99
38)	Carbon tetrachloride	5.37	117	66499	5.2692	PPB		99
40)	Ethyl acetate	5.38	43	136549	33.2375	PPB		99
41)	Tetrahydrofuran	5.41	72	3582	5.8098	PPB	#	43
43)	1,1,1-Trichloroethane	5.44	97	82367	5.4230	PPB		99
44)	1,1-Dichloropropene	5.58	75	78649	5.1390	PPB		98
45)	2-Butanone (MEK)	5.57	43	11185	7.0638	PPB		90
46)	Benzene	5.84	78	243771	5.0611	PPB		99
48)	Propanenitrile	5.88	54	20437	38.6744	PPB		95
49)	Methacrylonitrile	5.90	67	65290	31.0130	PPB		94
51)	1,2-Dichloroethane	6.07	62	58722	6.0069	PPB		99
52)	Isobutyl alcohol	6.14	43	23763	275.6683	PPB		94
53)	Methylcyclohexane	6.47	83	185573	9.3004	PPB		96
54)	Trichloroethene	6.50	130	55020	4.8291	PPB		96
55)	Dibromomethane	6.97	93	20906	5.7804	PPB		95
56)	n-Butanol	6.93	56	25631	543.5405	PPB		91
57)	1,2-Dichloropropane (CCC)	7.08	63	56636	5.3125	PPB		97
58)	Bromodichloromethane	7.17	83	65325	5.5920	PPB		100
59)	1,4-Dioxane	7.42	88	6349	398.7865	PPB		92
60)	Methyl methacrylate	7.37	69	18555	5.2811	PPB		93
61)	1-Bromo-2-chloroethane	7.72	63	58672	5.6908	PPB		99
62)	cis-1,3-Dichloropropene	7.90	75	79522	5.1810	PPB		98
63)	2-Chloroethyl vinyl ether	7.85	63	15944	5.1146	PPB		97
66)	Toluene (CCC)	8.14	91	238337	5.2180	PPB		98
67)	Epichlorohydrin	8.16	57	12213	37.9155	PPB		83
68)	2-Nitropropane	8.36	43	4872	4.2454	PPB		87
69)	Tetrachloroethene	8.50	164	38690	4.8432	PPB		98
70)	4-Methyl-2-pentanone (MIBK	8.51	43	23778	6.5855	PPB		96
71)	trans-1,3-Dichloropropene	8.55	75	61672	5.8218	PPB		97
72)	1,1,2-Trichloroethane	8.69	97	32936	6.2710	PPB		95
73)	4-Methyl-2-pentanol (MIBC)	8.63	45	16967	41.7794	PPB		90
74)	Ethyl methacrylate	8.69	69	36681	5.3525	PPB		91
75)	Dibromochloromethane	8.83	129	34472	6.0289	PPB		99

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Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04808.D
Acq On : 4 Nov 2008 5:14 pm
Sample : STD 5ppb
Misc : 1,1, 5uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 17:30 19108

Vial: 8
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

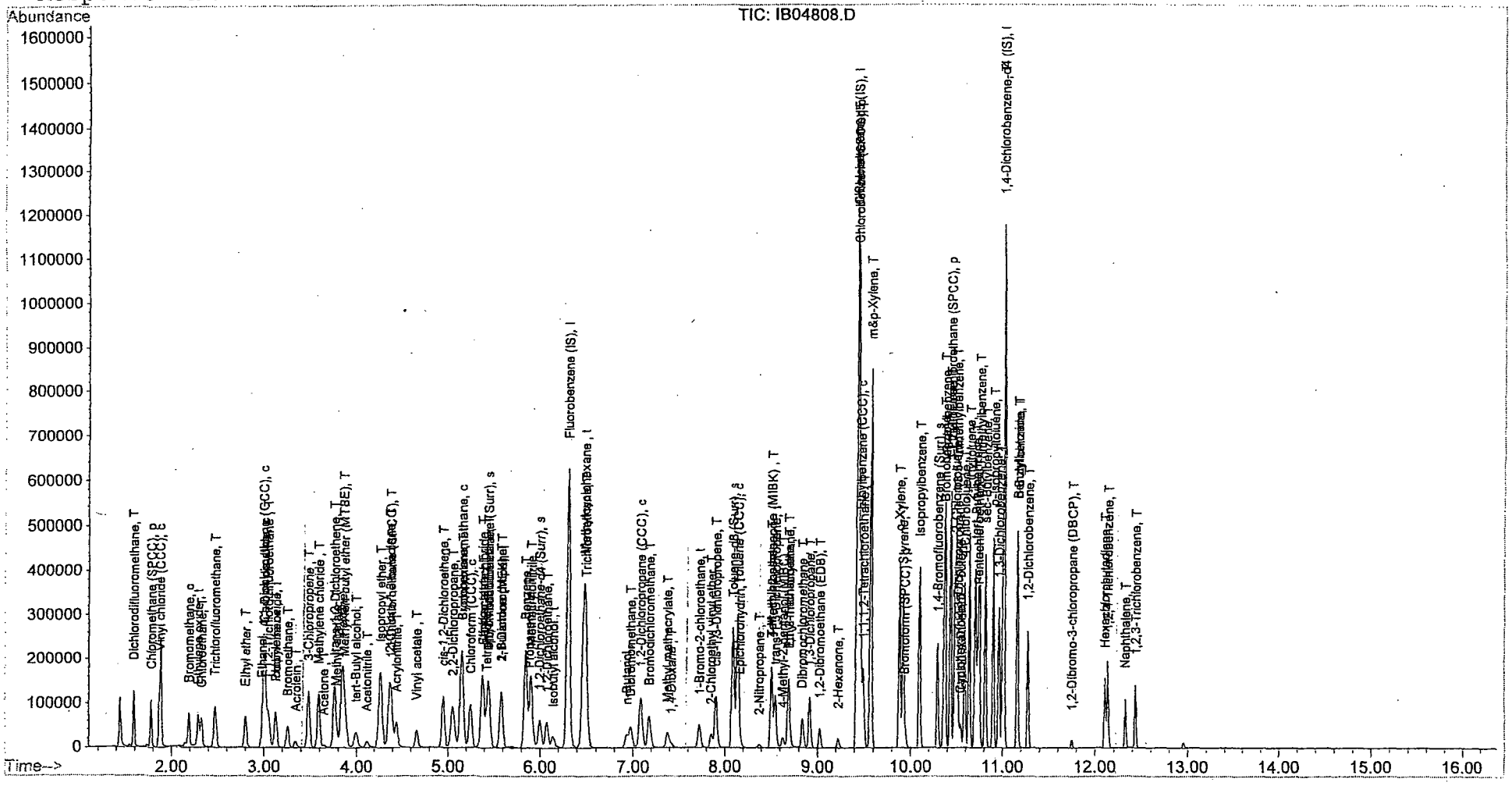
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	65706	6.2504	PPB		96
77)	1,2-Dibromoethane (EDB)	9.02	107	28505	6.2091	PPB		99
78)	2-Hexanone	9.22	43	14508	6.9168	PPB		94
79)	Chlorobenzene (SPCC)	9.44	112	142035	5.1411	PPB		96
80)	1-Chlorohexane	9.42	55	60203	5.1732	PPB		98
81)	Ethylbenzene (CCC)	9.46	106	80673	4.9219	PPB		91
82)	1,1,1,2-Tetrachloroethane	9.49	131	44109	5.3803	PPB		98
83)	m&p-Xylene	9.57	106	201702	9.8684	PPB		94
84)	o-Xylene	9.88	106	93498	4.8818	PPB		93
85)	Bromoform (SPCC)	9.94	173	14881	5.3470	PPB		100
86)	Styrene	9.92	104	142468	5.0111	PPB		98
87)	Isopropylbenzene	10.10	105	227628	5.0534	PPB		98
88)	Bromobenzene	10.36	156	46808	5.0831	PPB	#	90
89)	n-Propylbenzene	10.37	120	63867	4.7837	PPB	#	88
90)	1,1,2,2-Tetrachloroethane	10.43	83	33195	6.4776	PPB		99
93)	2-Chlorotoluene	10.48	126	53868	4.8490	PPB		89
94)	Cyclohexanone	10.55	42	2634	65.0684	PPB		84
95)	1,2,3-Trichloropropane	10.52	110	11285	6.9225	PPB		96
96)	trans-1,4-Dichloro-2-buten	10.54	53	7868	5.4424	PPB		80
97)	3-Ethyltoluene	10.43	105	234852	4.9936	PPB		98
98)	4-Chlorotoluene	10.58	126	53317	4.8278	PPB		90
99)	1,3,5-Trimethylbenzene	10.50	105	198444	5.0102	PPB		69
100)	2-Ethyltoluene	10.64	105	236466	5.0340	PPB		75
101)	tert-Butylbenzene	10.70	91	109335	5.0663	PPB	#	79
102)	Pentachloroethane	10.73	167	26268	4.9667	PPB		94
103)	1,2,4-Trimethylbenzene	10.75	105	196961	4.9843	PPB		97
104)	sec-Butylbenzene	10.82	105	239180	4.8736	PPB		98
105)	p-Isopropyltoluene	10.90	119	205784	4.8090	PPB		97
106)	1,3-Dichlorobenzene	10.96	146	93665	4.9349	PPB		99
107)	1,4-Dichlorobenzene	11.02	146	98804	5.0012	PPB		97
108)	Benzyl chloride	11.17	126	7949	3.1989	PPB	#	42
109)	n-Butylbenzene	11.16	134	46848	4.3218	PPB	#	87
110)	1,2-Dichlorobenzene	11.27	146	78477	5.1975	PPB		99
112)	1,2-Dibromo-3-chloropropan	11.75	157	3374	6.2950	PPB		95
113)	Hexachlorobutadiene	12.11	225	23638	4.0751	PPB		97
114)	1,2,4-Trichlorobenzene	12.14	180	41887	4.6358	PPB		100
115)	Naphthalene	12.32	128	61249	4.9923	PPB		99
116)	1,2,3-Trichlorobenzene	12.43	180	29887	4.8906	PPB		97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04808.D Vial: 8
Acq On : 4 Nov 2008 5:14 pm Operator: kma
Sample : STD 5ppb Inst : MSI
Misc : 1,1, 5uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 17:30 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) NOV 06 2008

Data File : H:\MSI.I\I110408.B\IB04809.D
Acq On : 4 Nov 2008 5:41 pm
Sample : STD 10ppb
Misc : 1,1, 10uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 17:57 19108

Vial: 9
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	721459	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	150362	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	200217	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	105428	11.0920 PPB	0.00
Spiked Amount 16.700			Recovery = 66.41%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	57645	11.7664 PPB	0.00
Spiked Amount 16.700			Recovery = 70.48%		
64) Toluene-d8 (Surr)	8.09	98	416393	10.1317 PPB	0.00
Spiked Amount 16.700			Recovery = 60.66%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	140714	10.4939 PPB	0.00
Spiked Amount 16.700			Recovery = 62.81%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	159159	10.7001 PPB	100
3) Chloromethane (SPCC)	1.77	50	149780	7.6842 PPB	100
4) Vinyl chloride (CCC)	1.86	62	165997	9.4634 PPB	100
5) Bromomethane	2.19	94	75227	8.7566 PPB	100
6) Ethylene oxide	2.29	44	150925	130.2629 PPB	98
7) Chloroethane	2.32	64	114210	10.0117 PPB	100
8) Trichlorofluoromethane	2.47	101	171700	10.5458 PPB	99
9) Ethyl ether	2.79	59	88968	12.2480 PPB	97
10) Ethanol	2.98	45	15499	691.9246 PPB	75
11) 1,1-Dichloroethene (CCC)	2.99	96	104567	10.1568 PPB	94
12) Carbon disulfide	3.01	76	376486	10.0043 PPB	99
13) 1,1,2-Trichlorotrifluoroet	3.04	101	100786	9.9521 PPB	98
14) Propylene oxide	3.12	58	66492	65.1120 PPB	100
15) Iodomethane	3.13	142	145943	8.8946 PPB	96
16) Bromoethane	3.26	108	86243	10.0161 PPB	100
17) Acrolein	3.34	56	32147	50.0394 PPB	99
18) 3-Chloropropene	3.48	41	223077	10.4958 PPB	98
19) Methylene chloride	3.59	84	120654	11.0972 PPB	98
20) Acetone	3.65	58	5644	14.7120 PPB	92
21) trans-1,2-Dichloroethene	3.76	96	118621	10.3250 PPB	98
22) Methyl acetate	3.78	74	23395	28.5280 PPB	92
23) Hexane	3.84	86	40061	9.5001 PPB #	78
24) Methyl tert-butyl ether (M	3.87	73	254856	12.4891 PPB	87
25) tert-Butyl alcohol	3.99	59	124762	669.2985 PPB	91
26) Acetonitrile	4.11	40	21998	93.9274 PPB	91
27) Isopropyl ether	4.26	45	454156	11.8218 PPB	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04809.D
Acq On : 4 Nov 2008 5:41 pm
Sample : STD 10ppb
Misc : 1,1, 10uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 17:57 19108

Vial: 9
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
28)	2-Chloro-1,3-butadiene	4.36	88	96122	9.8593	PPB	92
29)	1,1-Dichloroethane (SPCC)	4.38	63	235951	10.6800	PPB	100
30)	Acrylonitrile	4.44	53	115684	72.4169	PPB	98
31)	Vinyl acetate	4.66	43	153233	12.6687	PPB	99
32)	cis-1,2-Dichloroethene	4.95	96	126385	10.5207	PPB	98
33)	2,2-Dichloropropane	5.05	77	178245	10.3004	PPB	98
34)	Cyclohexane	5.14	56	221420	10.1728	PPB	96
35)	Bromochloromethane	5.15	130	58914	11.1012	PPB	92
37)	Chloroform (CCC)	5.24	83	202531	11.1408	PPB	99
38)	Carbon tetrachloride	5.37	117	140768	10.7790	PPB	99
40)	Ethyl acetate	5.37	43	299769	70.5130	PPB	99
41)	Tetrahydrofuran	5.40	72	8466	13.2696	PPB	92
43)	1,1,1-Trichloroethane	5.44	97	171146	10.8893	PPB	99
44)	1,1-Dichloropropene	5.58	75	167075	10.5497	PPB	98
45)	2-Butanone (MEK)	5.57	43	24974	15.2417	PPB	86
46)	Benzene	5.84	78	515826	10.3493	PPB	99
48)	Propanenitrile	5.88	54	44256	80.9321	PPB	89
49)	Methacrylonitrile	5.90	67	143917	66.0620	PPB	97
51)	1,2-Dichloroethane	6.07	62	125554	12.4114	PPB	99
52)	Isobutyl alcohol	6.13	43	57100	640.1242	PPB	98
53)	Methylcyclohexane	6.47	83	386384	18.7132	PPB	97
54)	Trichloroethene	6.49	130	115997	9.8387	PPB	96
55)	Dibromomethane	6.97	93	45616	12.1884	PPB	96
56)	n-Butanol	6.93	56	69194	1445.5853	PPB	94
57)	1,2-Dichloropropane (CCC)	7.08	63	121883	11.0481	PPB	98
58)	Bromodichloromethane	7.17	83	142891	11.8204	PPB	99
59)	1,4-Dioxane	7.41	88	14392	873.5724	PPB	89
60)	Methyl methacrylate	7.37	69	43963	12.0920	PPB	95
61)	1-Bromo-2-chloroethane	7.72	63	128295	12.0253	PPB	100
62)	cis-1,3-Dichloropropene	7.90	75	180434	11.3603	PPB	99
63)	2-Chloroethyl vinyl ether	7.85	63	37700	11.6869	PPB	98
66)	Toluene (CCC)	8.14	91	510330	10.5648	PPB	99
67)	Epichlorohydrin	8.17	57	27237	79.9566	PPB	82
68)	2-Nitropropane	8.37	43	11686	9.6290	PPB	91
69)	Tetrachloroethene	8.51	164	82469	9.7618	PPB	99
70)	4-Methyl-2-pentanone (MIBK	8.51	43	55126	14.4369	PPB	97
71)	trans-1,3-Dichloropropene	8.54	75	141804	12.6578	PPB	99
72)	1,1,2-Trichloroethane	8.68	97	70879	12.7609	PPB	97
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	44134	102.7616	PPB	93
74)	Ethyl methacrylate	8.70	69	92203	12.7223	PPB	97
75)	Dibromochloromethane	8.84	129	78097	12.9155	PPB	98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04809.D
Acq On : 4 Nov 2008 5:41 pm
Sample : STD 10ppb
Misc : 1,1, 10uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 17:57 19108

Vial: 9
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

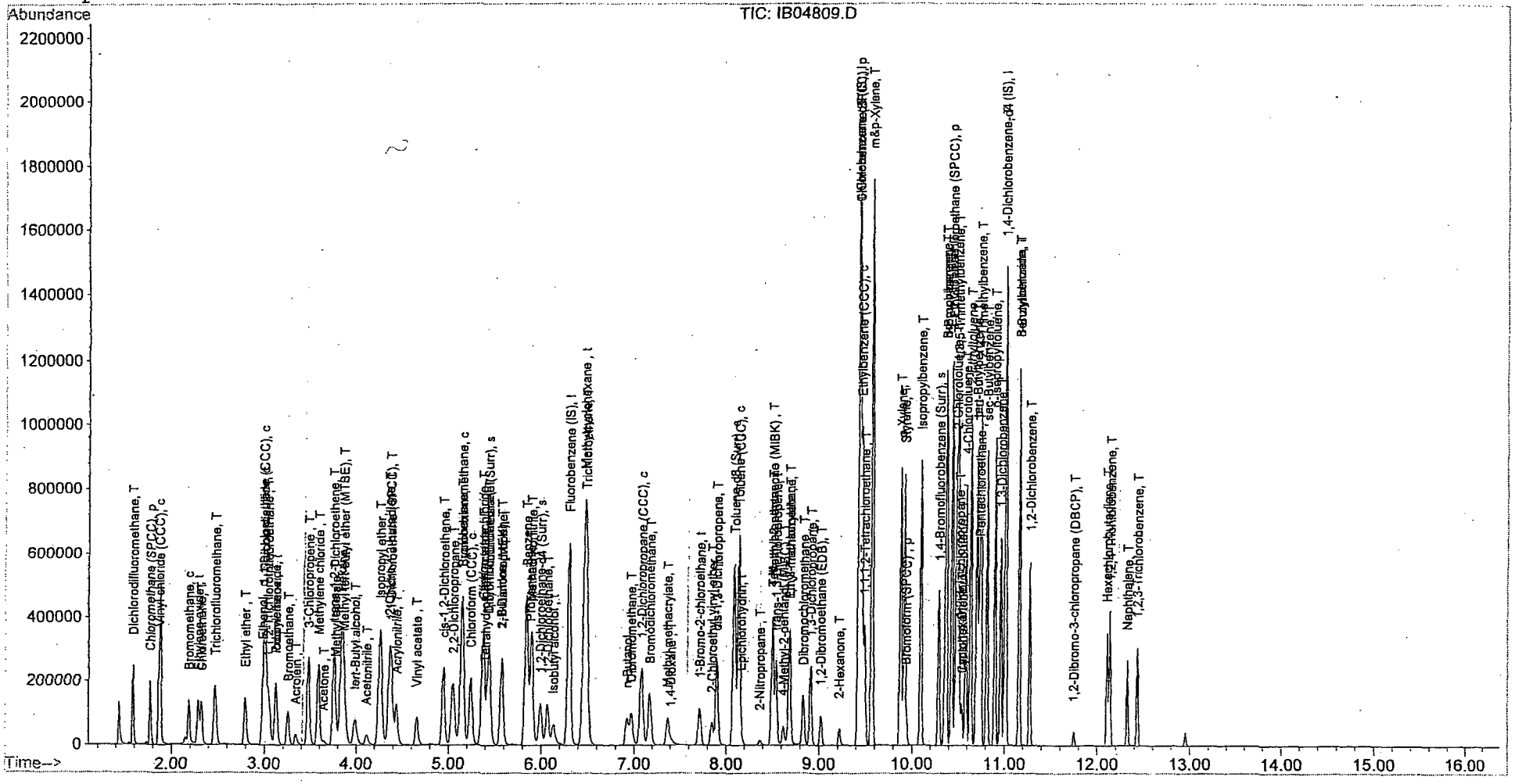
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	141794	12.7544	PPB		97
77)	1,2-Dibromoethane (EDB)	9.02	107	62973	12.9707	PPB		99
78)	2-Hexanone	9.22	43	33575	15.1360	PPB		96
79)	Chlorobenzene (SPCC)	9.44	112	301718	10.3268	PPB		97
80)	1-Chlorohexane	9.43	55	120728	9.8279	PPB		99
81)	Ethylbenzene (CCC)	9.46	106	176433	10.1785	PPB		90
82)	1,1,1,2-Tetrachloroethane	9.49	131	97467	11.2419	PPB		99
83)	m&p-Xylene	9.57	106	443384	20.5125	PPB		96
84)	o-Xylene	9.88	106	209583	10.3474	PPB		97
85)	Bromoform (SPCC)	9.94	173	35428	12.0372	PPB		99
86)	Styrene	9.92	104	329554	10.9608	PPB		98
87)	Isopropylbenzene	10.09	105	490685	10.3005	PPB		98
88)	Bromobenzene	10.36	156	102919	10.5683	PPB		93
89)	n-Propylbenzene	10.37	120	139876	9.9067	PPB		91
90)	1,1,2,2-Tetrachloroethane	10.43	83	72098	13.3034	PPB		99
93)	2-Chlorotoluene	10.48	126	115663	9.9416	PPB		90
94)	Cyclohexanone	10.54	42	5979	141.0342	PPB		86
95)	1,2,3-Trichloropropane	10.52	110	23716	13.8913	PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	18880	12.4701	PPB		85
97)	3-Ethyltoluene	10.44	105	511029	10.3755	PPB		98
98)	4-Chlorotoluene	10.59	126	115693	10.0030	PPB		92
99)	1,3,5-Trimethylbenzene	10.50	105	427089	10.2962	PPB		68
100)	2-Ethyltoluene	10.64	105	514215	10.4528	PPB		76
101)	tert-Butylbenzene	10.70	91	230934	10.2178	PPB	#	77
102)	Pentachloroethane	10.73	167	60253	10.8784	PPB		96
103)	1,2,4-Trimethylbenzene	10.75	105	430850	10.4110	PPB		98
104)	sec-Butylbenzene	10.81	105	513195	9.9851	PPB		98
105)	p-Isopropyltoluene	10.90	119	448420	10.0063	PPB		98
106)	1,3-Dichlorobenzene	10.96	146	202595	10.1922	PPB		99
107)	1,4-Dichlorobenzene	11.01	146	212827	10.2865	PPB		99
108)	Benzyl chloride	11.17	126	20213	7.7670	PPB	#	68
109)	n-Butylbenzene	11.16	134	104425	9.1985	PPB	#	88
110)	1,2-Dichlorobenzene	11.27	146	171981	10.8760	PPB		99
112)	1,2-Dibromo-3-chloropropan	11.75	157	7920	11.3650	PPB		95
113)	Hexachlorobutadiene	12.11	225	50025	8.2349	PPB		99
114)	1,2,4-Trichlorobenzene	12.14	180	93541	9.8853	PPB		100
115)	Naphthalene	12.33	128	144804	11.2700	PPB		100
116)	1,2,3-Trichlorobenzene	12.43	180	66236	10.3495	PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04809.D Vial: 9
Acq On : 4 Nov 2008 5:41 pm Operator: kma
Sample : STD 10ppb Inst : MSI
Misc : 1,1, 10uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 17:57 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) YA NOV 06 2008

Data File : H:\MSI.I\I110408.B\IB04810.D
Acq On : 4 Nov 2008 6:08 pm
Sample : STD 20ppb
Misc : 1,1, 20uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 18:24 19108

Vial: 10
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	751704	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	159464	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	210863	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	221876	22.4041 PPB	0.00
Spiked Amount 16.700			Recovery	= 134.13%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	118682	23.2504 PPB	0.00
Spiked Amount 16.700			Recovery	= 139.22%	
64) Toluene-d8 (Surr)	8.08	98	884775	20.6621 PPB	0.00
Spiked Amount 16.700			Recovery	= 123.71%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	300944	21.1621 PPB	0.00
Spiked Amount 16.700			Recovery	= 126.71%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	325900	21.0284 PPB	99
3) Chloromethane (SPCC)	1.77	50	322672	15.8880 PPB	99
4) Vinyl chloride (CCC)	1.87	62	349002	19.0959 PPB	99
5) Bromomethane	2.19	94	162169	18.1173 PPB	99
6) Ethylene oxide	2.29	44	301529	249.7775 PPB	99
7) Chloroethane	2.32	64	237065	19.9450 PPB	99
8) Trichlorofluoromethane	2.47	101	353309	20.8271 PPB	99
9) Ethyl ether	2.80	59	187333	24.7521 PPB	97
10) Ethanol	2.97	45	32489	1392.0545 PPB	76
11) 1,1-Dichloroethene (CCC)	2.99	96	223281	20.8151 PPB	98
12) Carbon disulfide	3.01	76	806742	20.5749 PPB	100
13) 1,1,2-Trichlorotrifluoroet	3.04	101	210924	19.9897 PPB	97
14) Propylene oxide	3.12	58	139482	131.0916 PPB	99
15) Iodomethane	3.13	142	337908	19.7654 PPB	96
16) Bromoethane	3.25	108	181558	20.2375 PPB	99
17) Acrolein	3.34	56	68869	102.8869 PPB	99
18) 3-Chloropropene	3.48	41	471114	21.2741 PPB	98
19) Methylene chloride	3.59	84	250304	22.0956 PPB	98
20) Acetone	3.65	58	11469	28.6930 PPB	98
21) trans-1,2-Dichloroethene	3.76	96	250454	20.9229 PPB	99
22) Methyl acetate	3.78	74	50189	58.7384 PPB	95
23) Hexane	3.84	86	84773	19.2943 PPB #	84
24) Methyl tert-butyl ether (M	3.87	73	530950	24.9721 PPB	86
25) tert-Butyl alcohol	3.98	59	267687	1378.2550 PPB	94
26) Acetonitrile	4.11	40	43370	177.7311 PPB	96
27) Isopropyl ether	4.26	45	953484	23.8207 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04810.D
Acq On : 4 Nov 2008 6:08 pm
Sample : STD 20ppb
Misc : 1,1, 20uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 18:24 19108

Vial: 10
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
28)	2-Chloro-1,3-butadiene	4.36	88	209481	20.6220	PPB	94
29)	1,1-Dichloroethane (SPCC)	4.38	63	491809	21.3655	PPB	100
30)	Acrylonitrile	4.43	53	238897	143.5299	PPB	98
31)	Vinyl acetate	4.66	43	328475	26.0644	PPB	99
32)	cis-1,2-Dichloroethene	4.94	96	265421	21.2056	PPB	98
33)	2,2-Dichloropropane	5.05	77	377467	20.9354	PPB	100
34)	Cyclohexane	5.14	56	458202	20.2044	PPB	97
35)	Bromochloromethane	5.15	130	125657	22.7249	PPB	96
37)	Chloroform (CCC)	5.24	83	421695	22.2631	PPB	99
38)	Carbon tetrachloride	5.37	117	293809	21.5925	PPB	100
40)	Ethyl acetate	5.38	43	622307	140.4921	PPB	99
41)	Tetrahydrofuran	5.40	72	18154	27.3097	PPB	96
43)	1,1,1-Trichloroethane	5.44	97	356710	21.7828	PPB	99
44)	1,1-Dichloropropene	5.58	75	348770	21.1364	PPB	99
45)	2-Butanone (MEK)	5.56	43	53710	31.4604	PPB	87
46)	Benzene	5.84	78	1087419	20.9396	PPB	99
48)	Propanenitrile	5.87	54	92074	161.6034	PPB	89
49)	Methacrylonitrile	5.90	67	301582	132.8647	PPB	96
51)	1,2-Dichloroethane	6.07	62	253654	24.0655	PPB	99
52)	Isobutyl alcohol	6.13	43	125945	1355.1079	PPB	98
53)	Methylcyclohexane	6.47	83	806544	37.4905	PPB	98
54)	Trichloroethene	6.50	130	246425	20.0604	PPB	97
55)	Dibromomethane	6.97	93	96144	24.6557	PPB	96
56)	n-Butanol	6.92	56	159793	4176.7689	PPB	97
57)	1,2-Dichloropropane (CCC)	7.08	63	254061	22.1029	PPB	99
58)	Bromodichloromethane	7.17	83	298094	23.6671	PPB	100
59)	1,4-Dioxane	7.41	88	30477	1775.4759	PPB	91
60)	Methyl methacrylate	7.37	69	98115	25.9006	PPB	98
61)	1-Bromo-2-chloroethane	7.72	63	269059	24.2046	PPB	99
62)	cis-1,3-Dichloropropene	7.90	75	384886	23.2578	PPB	100
63)	2-Chloroethyl vinyl ether	7.85	63	81346	24.2025	PPB	99
66)	Toluene (CCC)	8.14	91	1083275	21.1458	PPB	99
67)	Epichlorohydrin	8.16	57	59591	164.9497	PPB	79
68)	2-Nitropropane	8.37	43	27845	21.6341	PPB	98
69)	Tetrachloroethene	8.50	164	173296	19.3420	PPB	99
70)	4-Methyl-2-pentanone (MIBK	8.51	43	122050	30.1391	PPB	98
71)	trans-1,3-Dichloropropene	8.55	75	304336	25.6152	PPB	100
72)	1,1,2-Trichloroethane	8.69	97	147224	24.9930	PPB	98
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	105420	231.4495	PPB	95
74)	Ethyl methacrylate	8.69	69	207496	26.9963	PPB	97
75)	Dibromochloromethane	8.84	129	171533	26.7484	PPB	100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04810.D
Acq On : 4 Nov 2008 6:08 pm
Sample : STD 20ppb
Misc : 1,1, 20uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 18:24 19108

Vial: 10
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

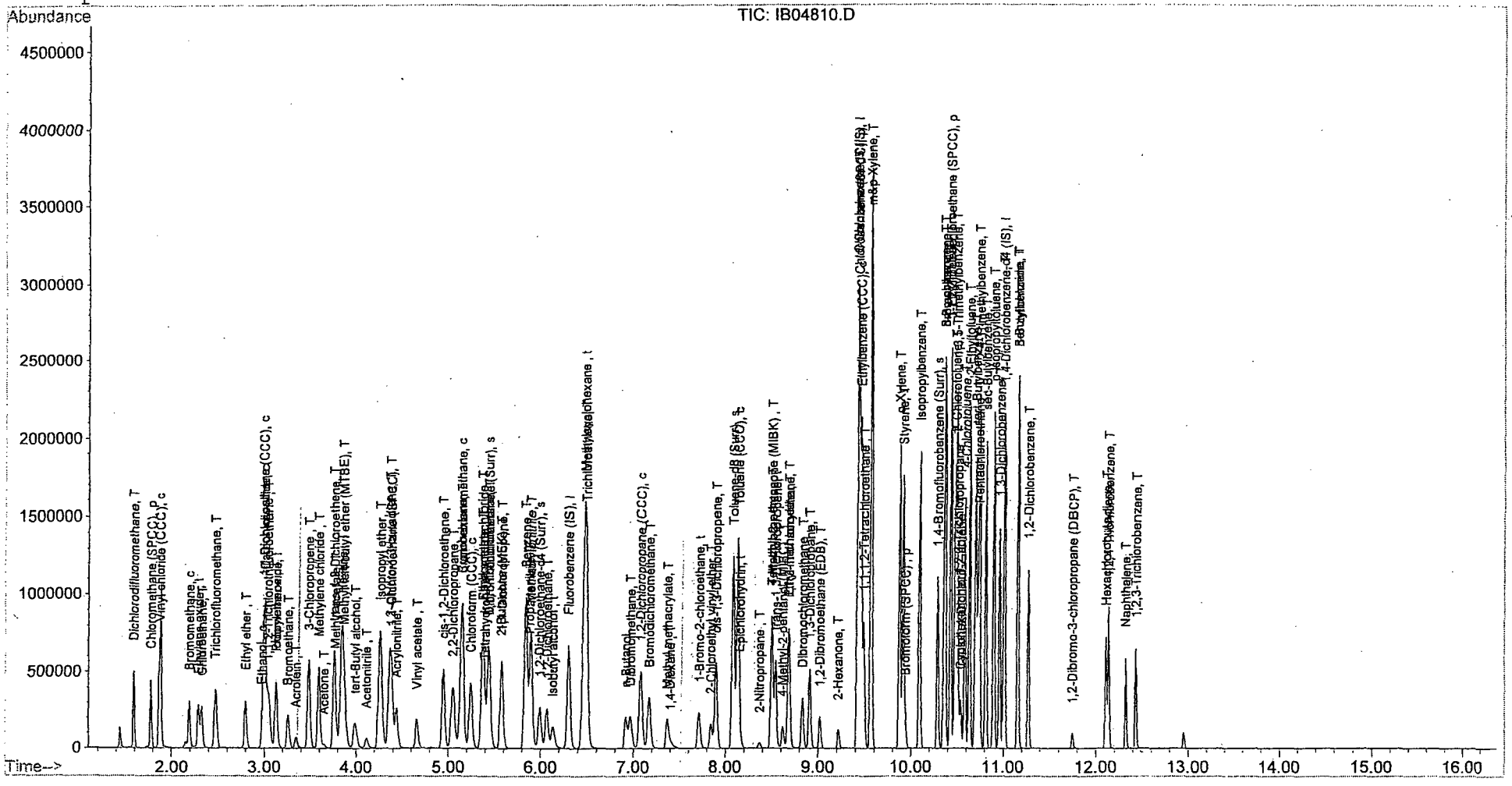
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	294121	24.9461	PPB		99
77)	1,2-Dibromoethane (EDB)	9.02	107	131318	25.5040	PPB		99
78)	2-Hexanone	9.21	43	72324	30.7435	PPB		100
79)	Chlorobenzene (SPCC)	9.44	112	643571	20.7699	PPB		98
80)	1-Chlorohexane	9.43	55	249565	19.5176	PPB		99
81)	Ethylbenzene (CCC)	9.46	106	376393	20.4748	PPB		94
82)	1,1,1,2-Tetrachloroethane	9.49	131	207414	22.5577	PPB		99
83)	m&p-Xylene	9.57	106	942627	41.1200	PPB		97
84)	o-Xylene	9.88	106	445546	20.7417	PPB		97
85)	Bromoform (SPCC)	9.94	173	77372	24.7879	PPB		99
86)	Styrene	9.91	104	717918	22.5147	PPB		99
87)	Isopropylbenzene	10.10	105	1047503	20.7342	PPB		99
88)	Bromobenzene	10.36	156	217590	21.0681	PPB		94
89)	n-Propylbenzene	10.38	120	296398	19.7942	PPB		91
90)	1,1,2,2-Tetrachloroethane	10.43	83	151779	26.4074	PPB		100
93)	2-Chlorotoluene	10.48	126	244401	19.9465	PPB		92
94)	Cyclohexanone	10.55	42	11910	266.7523	PPB		94
95)	1,2,3-Trichloropropane	10.52	110	48884	27.1875	PPB		99
96)	trans-1,4-Dichloro-2-buten	10.54	53	41281	25.8891	PPB		92
97)	3-Ethyltoluene	10.43	105	1074329	20.7111	PPB		98
98)	4-Chlorotoluene	10.59	126	246731	20.2556	PPB		96
99)	1,3,5-Trimethylbenzene	10.50	105	907102	20.7642	PPB		68
100)	2-Ethyltoluene	10.64	105	1078345	20.8135	PPB		76
101)	tert-Butylbenzene	10.71	91	483359	20.3067	PPB	#	75
102)	Pentachloroethane	10.73	167	134961	23.1363	PPB		97
103)	1,2,4-Trimethylbenzene	10.75	105	913077	20.9495	PPB		98
104)	sec-Butylbenzene	10.81	105	1082241	19.9937	PPB		98
105)	p-Isopropyltoluene	10.90	119	950279	20.1345	PPB		98
106)	1,3-Dichlorobenzene	10.96	146	431739	20.6235	PPB		99
107)	1,4-Dichlorobenzene	11.02	146	444790	20.4124	PPB		99
108)	Benzyl chloride	11.17	126	51451	18.7724	PPB		92
109)	n-Butylbenzene	11.16	134	225621	18.8709	PPB	#	87
110)	1,2-Dichlorobenzene	11.28	146	364803	21.9053	PPB		100
112)	1,2-Dibromo-3-chloropropan	11.75	157	18524	22.5401	PPB		99
113)	Hexachlorobutadiene	12.11	225	106385	16.6285	PPB		99
114)	1,2,4-Trichlorobenzene	12.13	180	202339	20.3033	PPB		99
115)	Naphthalene	12.32	128	321481	23.7574	PPB		100
116)	1,2,3-Trichlorobenzene	12.43	180	139818	20.7438	PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04810.D Vial: 10
Acq On : 4 Nov 2008 6:08 pm Operator: kma
Sample : STD 20ppb Inst : MSI
Misc : 1,1, 20uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 18:24 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed) NA

NOV 0 6 2008

Data File : H:\MSI.I\I110408.B\IB04811.D
Acq On : 4 Nov 2008 6:35 pm
Sample : STD 50ppb
Misc : 1,1, 50uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 18:52 19108

Vial: 11
Operator: kma
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	778154	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.43	119	175275	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	228642	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	581119	56.6845 PPB	0.00
Spiked Amount 16.700			Recovery	= 339.40%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	295705	55.9610 PPB	0.00
Spiked Amount 16.700			Recovery	= 335.09%	
64) Toluene-d8 (Surr)	8.08	98	2323636	52.4193 PPB	0.00
Spiked Amount 16.700			Recovery	= 313.89%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	795364	50.8841 PPB	0.00
Spiked Amount 16.700			Recovery	= 304.67%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	822185	51.2474 PPB	99
3) Chloromethane (SPCC)	1.77	50	853299	40.5874 PPB	100
4) Vinyl chloride (CCC)	1.87	62	911010	48.1524 PPB	100
5) Bromomethane	2.19	94	467991	50.5061 PPB	99
6) Ethylene oxide	2.29	44	525581	420.5767 PPB	98
7) Chloroethane	2.32	64	592958	48.1917 PPB	99
8) Trichlorofluoromethane	2.47	101	900504	51.2792 PPB	100
9) Ethyl ether	2.80	59	478189	61.0349 PPB	99
10) Ethanol	2.97	45	92180	3815.3809 PPB	76
11) 1,1-Dichloroethene (CCC)	2.99	96	590239	53.1541 PPB	100
12) Carbon disulfide	3.01	76	2153249	53.0491 PPB	99
13) 1,1,2-Trichlorotrifluoroet	3.04	101	544428	49.8427 PPB	98
14) Propylene oxide	3.12	58	358861	325.8098 PPB	100
15) Iodomethane	3.12	142	903623	51.0595 PPB	98
16) Bromoethane	3.25	108	471358	50.7543 PPB	99
17) Acrolein	3.34	56	184651	266.4828 PPB	99
18) 3-Chloropropene	3.48	41	1204278	52.5331 PPB	97
19) Methylene chloride	3.59	84	644807	54.9855 PPB	99
20) Acetone	3.64	58	30292	73.2082 PPB	93
21) trans-1,2-Dichloroethene	3.75	96	652644	52.6687 PPB	99
22) Methyl acetate	3.78	74	130771	147.8449 PPB	93
23) Hexane	3.84	86	222411	48.9000 PPB #	89
24) Methyl tert-butyl ether (M	3.87	73	1373079	62.3847 PPB	84
25) tert-Butyl alcohol	3.98	59	746267	3711.7426 PPB	95
26) Acetonitrile	4.11	40	113124	447.8267 PPB	99
27) Isopropyl ether	4.26	45	2409892	58.1595 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04811.D
Acq On : 4 Nov 2008 6:35 pm
Sample : STD 50ppb
Misc : 1,1, 50uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 18:52 19108

Vial: 11
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) 2-Chloro-1,3-butadiene	4.36	88	554565	52.7377 PPB	97
29) 1,1-Dichloroethane (SPCC)	4.38	63	1249885	52.4527 PPB	100
30) Acrylonitrile	4.43	53	620586	360.1762 PPB	98
31) Vinyl acetate	4.65	43	856686	65.6672 PPB	100
32) cis-1,2-Dichloroethene	4.94	96	699311	53.9717 PPB	99
33) 2,2-Dichloropropane	5.05	77	961228	51.5002 PPB	98
34) Cyclohexane	5.14	56	1186636	50.5460 PPB	99
35) Bromochloromethane	5.15	130	329254	57.5211 PPB	98
37) Chloroform (CCC)	5.24	83	1085607	55.3658 PPB	99
38) Carbon tetrachloride	5.37	117	753617	53.5021 PPB	100
40) Ethyl acetate	5.37	43	1585991	345.8831 PPB	100
41) Tetrahydrofuran	5.40	72	48572	70.5849 PPB	96
43) 1,1,1-Trichloroethane	5.44	97	928979	54.8005 PPB	99
44) 1,1-Dichloropropene	5.58	75	904889	52.9748 PPB	98
45) 2-Butanone (MEK)	5.56	43	141321	79.9645 PPB	86
46) Benzene	5.84	78	2797839	52.0445 PPB	99
48) Propanenitrile	5.87	54	241989	410.2895 PPB	90
49) Methacrylonitrile	5.90	67	795472	338.5404 PPB	99
51) 1,2-Dichloroethane	6.07	62	641507	58.7945 PPB	100
52) Isobutyl alcohol	6.13	43	364961	3793.3308 PPB	99
53) Methylcyclohexane	6.47	83	2132511	95.7560 PPB	100
54) Trichloroethene	6.49	130	654851	51.4967 PPB	98
55) Dibromomethane	6.97	93	250063	61.9478 PPB	98
56) n-Butanol	6.91	56	484883	-16.7000 PPB	98
57) 1,2-Dichloropropane (CCC)	7.08	63	655307	55.0728 PPB	99
58) Bromodichloromethane	7.17	83	781032	59.9020 PPB	99
59) 1,4-Dioxane	7.41	88	86850	4887.5780 PPB	93
60) Methyl methacrylate	7.37	69	271336	69.1932 PPB	99
61) 1-Bromo-2-chloroethane	7.72	63	697942	60.6528 PPB	99
62) cis-1,3-Dichloropropene	7.90	75	1012242	59.0883 PPB	99
63) 2-Chloroethyl vinyl ether	7.85	63	213420	61.3394 PPB	98
66) Toluene (CCC)	8.14	91	2831134	50.2792 PPB	99
67) Epichlorohydrin	8.16	57	159650	402.0521 PPB	77
68) 2-Nitropropane	8.37	43	82377	58.2291 PPB	99
69) Tetrachloroethene	8.50	164	472477	47.9773 PPB	99
70) 4-Methyl-2-pentanone (MIBK	8.51	43	328469	73.7954 PPB	98
71) trans-1,3-Dichloropropene	8.54	75	796600	60.9996 PPB	99
72) 1,1,2-Trichloroethane	8.68	97	387508	59.8499 PPB	99
73) 4-Methyl-2-pentanol (MIBC)	8.62	45	348093	695.2982 PPB	99
74) Ethyl methacrylate	8.69	69	575290	68.0964 PPB	99
75) Dibromochloromethane	8.84	129	459154	65.1406 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04811.D
Acq On : 4 Nov 2008 6:35 pm
Sample : STD 50ppb
Misc : 1,1, 50uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 18:52 19108

Vial: 11
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

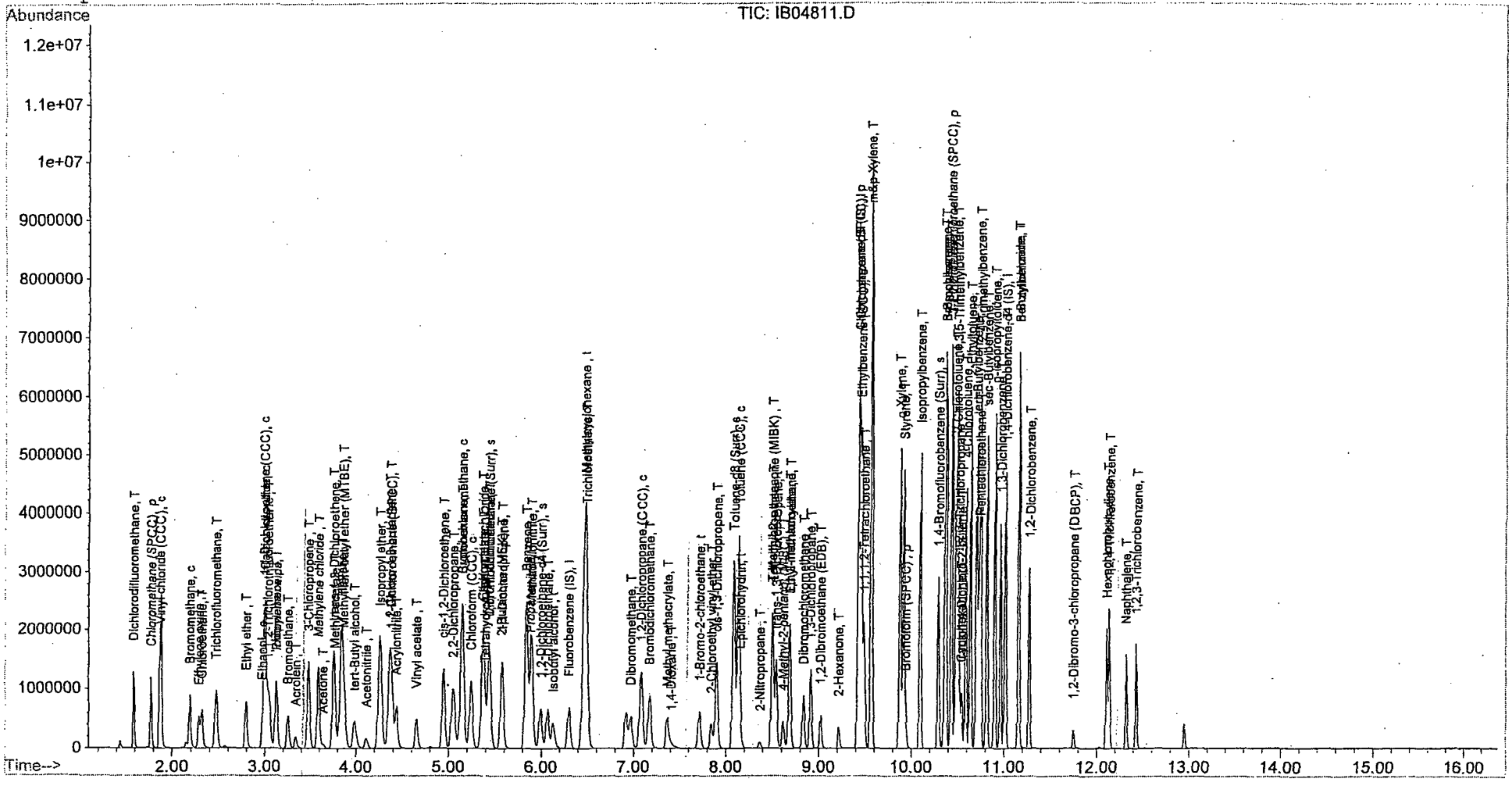
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	759730	58.6244	PPB		100
77)	1,2-Dibromoethane (EDB)	9.02	107	355370	62.7925	PPB		99
78)	2-Hexanone	9.21	43	208635	80.6866	PPB		99
79)	Chlorobenzene (SPCC)	9.44	112	1760107	51.6797	PPB		99
80)	1-Chlorohexane	9.43	55	633495	48.4188	PPB		99
81)	Ethylbenzene (CCC)	9.46	106	1017058	50.3347	PPB		96
82)	1,1,1,2-Tetrachloroethane	9.49	131	560420	55.4514	PPB		100
83)	m&p-Xylene	9.57	106	2597490	103.0884	PPB		98
84)	o-Xylene	9.88	106	1212725	51.3639	PPB		99
85)	Bromoform (SPCC)	9.94	173	220127	64.1611	PPB		99
86)	Styrene	9.92	104	1970865	56.2329	PPB		99
87)	Isopropylbenzene	10.10	105	2796034	50.3519	PPB		100
88)	Bromobenzene	10.36	156	604861	53.2826	PPB		98
89)	n-Propylbenzene	10.38	120	828097	50.3138	PPB		99
90)	1,1,2,2-Tetrachloroethane	10.43	83	413567	65.4641	PPB		100
93)	2-Chlorotoluene	10.48	126	672974	50.6530	PPB		98
94)	Cyclohexanone	10.55	42	37110	766.5346	PPB	#	84
95)	1,2,3-Trichloropropane	10.52	110	132038	67.7245	PPB		100
96)	trans-1,4-Dichloro-2-buten	10.54	53	118310	68.4279	PPB		96
97)	3-Ethyltoluene	10.43	105	2919070	51.8984	PPB		100
98)	4-Chlorotoluene	10.59	126	667544	50.5413	PPB		99
99)	1,3,5-Trimethylbenzene	10.50	105	2422645	51.1439	PPB		66
100)	2-Ethyltoluene	10.64	105	2874655	51.1701	PPB		77
101)	tert-Butylbenzene	10.70	91	1272830	49.3157	PPB	#	72
102)	Pentachloroethane	10.73	167	377156	59.6282	PPB		99
103)	1,2,4-Trimethylbenzene	10.75	105	2447612	51.7909	PPB		100
104)	sec-Butylbenzene	10.81	105	2918819	49.7303	PPB		99
105)	p-Isopropyltoluene	10.90	119	2582466	50.4624	PPB		100
106)	1,3-Dichlorobenzene	10.96	146	1180005	51.9839	PPB		100
107)	1,4-Dichlorobenzene	11.01	146	1231750	52.1323	PPB		99
108)	Benzyl chloride	11.17	126	165445	55.6703	PPB		89
109)	n-Butylbenzene	11.16	134	627989	48.4406	PPB	#	89
110)	1,2-Dichlorobenzene	11.28	146	983263	54.4508	PPB		100
112)	1,2-Dibromo-3-chloropropan	11.75	157	58584	61.5043	PPB		98
113)	Hexachlorobutadiene	12.11	225	300014	43.2474	PPB		100
114)	1,2,4-Trichlorobenzene	12.14	180	555790	51.4330	PPB		100
115)	Naphthalene	12.32	128	893299	60.8814	PPB		100
116)	1,2,3-Trichlorobenzene	12.43	180	382719	52.3661	PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04811.D Vial: 11
Acq On : 4 Nov 2008 6:35 pm Operator: kma
Sample : STD 50ppb Inst : MSI
Misc : 1,1, 50uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 18:52 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

KA NOV 06 2008

Data File : H:\MSI.I\I110408.B\IB04812.D
Acq On : 4 Nov 2008 7:02 pm
Sample : STD 100ppb
Misc : 1,1, 100uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 19:19 19108

Vial: 12
Operator: kma
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	823197	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	189191	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	251636	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	1237095	114.0680 PPB	0.00
Spiked Amount 16.700			Recovery	= 683.05%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	611553	109.4013 PPB	0.00
Spiked Amount 16.700			Recovery	= 655.09%	
64) Toluene-d8 (Surr)	8.09	98	4894875	104.3822 PPB	0.00
Spiked Amount 16.700			Recovery	= 625.03%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	1695791	100.5097 PPB	0.00
Spiked Amount 16.700			Recovery	= 601.86%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.59	85	1578481	93.0044 PPB	99
3) Chloromethane (SPCC)	1.77	50	1810359	81.3986 PPB	99
4) Vinyl chloride (CCC)	1.86	62	1836157	91.7415 PPB	100
5) Bromomethane	2.19	94	1093845	111.5897 PPB	99
6) Ethylene oxide	2.28	44	577077	436.5170 PPB	97
7) Chloroethane	2.31	64	1011546	77.7134 PPB	98
8) Trichlorofluoromethane	2.46	101	1746461	94.0104 PPB	100
9) Ethyl ether	2.79	59	979589	118.1910 PPB	100
10) Ethanol	2.97	45	181924	7117.9179 PPB	77
11) 1,1-Dichloroethene (CCC)	2.99	96	1233598	105.0132 PPB	96
12) Carbon disulfide	3.01	76	4467581	104.0442 PPB	98
13) 1,1,2-Trichlorotrifluoroet	3.04	101	1081134	93.5627 PPB	99
14) Propylene oxide	3.12	58	725917	622.9979 PPB	97
15) Iodomethane	3.13	142	1906322	101.8233 PPB	99
16) Bromoethane	3.26	108	1008628	102.6631 PPB	100
17) Acrolein	3.33	56	390964	533.3545 PPB	99
18) 3-Chloropropene	3.47	41	2442551	100.7190 PPB	98
19) Methylene chloride	3.59	84	1344405	108.3703 PPB	97
20) Acetone	3.64	58	64737	147.8925 PPB	98
21) trans-1,2-Dichloroethene	3.75	96	1394386	106.3704 PPB	97
22) Methyl acetate	3.77	74	271117	289.7434 PPB	99
23) Hexane	3.84	86	434815	90.3689 PPB #	92
24) Methyl tert-butyl ether (M	3.86	73	2804971	120.4683 PPB	79
25) tert-Butyl alcohol	3.99	59	1509739	7098.1842 PPB	96
26) Acetonitrile	4.11	40	230452	862.3776 PPB	98
27) Isopropyl ether	4.26	45	4828208	110.1466 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04812.D
Acq On : 4 Nov 2008 7:02 pm
Sample : STD 100ppb
Misc : 1,1, 100uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 19:19 19108

Vial: 12
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
28) 2-Chloro-1,3-butadiene	4.36	88	1170247	105.1980 PPB	98
29) 1,1-Dichloroethane (SPCC)	4.38	63	2580267	102.3585 PPB	99
30) Acrylonitrile	4.44	53	1282158	703.4226 PPB	99
31) Vinyl acetate	4.65	43	1746274	126.5322 PPB	99
32) cis-1,2-Dichloroethene	4.95	96	1481554	108.0874 PPB	97
33) 2,2-Dichloropropane	5.05	77	1976216	100.0873 PPB	97
34) Cyclohexane	5.14	56	2314919	93.2110 PPB	99
35) Bromochloromethane	5.15	130	707645	116.8621 PPB	96
37) Chloroform (CCC)	5.25	83	2269146	109.3940 PPB	99
38) Carbon tetrachloride	5.37	117	1548898	103.9452 PPB	100
40) Ethyl acetate	5.37	43	3154887	650.3905 PPB	99
41) Tetrahydrofuran	5.40	72	100555	138.1310 PPB	91
43) 1,1,1-Trichloroethane	5.44	97	1910198	106.5170 PPB	98
44) 1,1-Dichloropropene	5.57	75	1862996	103.0974 PPB	97
45) 2-Butanone (MEK)	5.56	43	291377	155.8503 PPB	86
46) Benzene	5.84	78	5816419	102.2750 PPB	99
48) Propanenitrile	5.87	54	495630	794.3541 PPB	90
49) Methacrylonitrile	5.90	67	1637640	658.8186 PPB	97
51) 1,2-Dichloroethane	6.07	62	1306281	113.1705 PPB	99
52) Isobutyl alcohol	6.13	43	753076	7399.0308 PPB	99
53) Methylcyclohexane	6.47	83	4222040	179.2086 PPB	98
54) Trichloroethene	6.49	130	1421182	105.6449 PPB	99
55) Dibromomethane	6.97	93	525857	123.1418 PPB	98
56) n-Butanol	6.92	56	995296	-16.7000 PPB	98
57) 1,2-Dichloropropane (CCC)	7.08	63	1373978	109.1525 PPB	98
58) Bromodichloromethane	7.17	83	1667565	120.8975 PPB	99
59) 1,4-Dioxane	7.40	88	172257	9163.5242 PPB	93
60) Methyl methacrylate	7.37	69	571218	137.6954 PPB	98
61) 1-Bromo-2-chloroethane	7.71	63	1464845	120.3331 PPB	99
62) cis-1,3-Dichloropropene	7.90	75	2125076	117.2610 PPB	97
63) 2-Chloroethyl vinyl ether	7.85	63	434615	118.0785 PPB	97
66) Toluene (CCC)	8.13	91	5936320	97.6709 PPB	100
67) Epichlorohydrin	8.16	57	321552	750.2122 PPB	77
68) 2-Nitropropane	8.37	43	182321	119.3962 PPB	98
69) Tetrachloroethene	8.51	164	1015125	95.4980 PPB	99
70) 4-Methyl-2-pentanone (MIBK	8.51	43	664329	138.2731 PPB	98
71) trans-1,3-Dichloropropene	8.54	75	1673949	118.7541 PPB	98
72) 1,1,2-Trichloroethane	8.68	97	825284	118.0880 PPB	99
73) 4-Methyl-2-pentanol (MIBC)	8.62	45	748129	1384.4326 PPB	99
74) Ethyl methacrylate	8.69	69	1212330	132.9468 PPB	98
75) Dibromochloromethane	8.83	129	990043	130.1268 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04812.D
Acq On : 4 Nov 2008 7:02 pm
Sample : STD 100ppb
Misc : 1,1, 100uL/50mL 08MSV0802
MS Integration Params: VOA.P
Quant Time: Nov 4 19:19 19108

Vial: 12
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

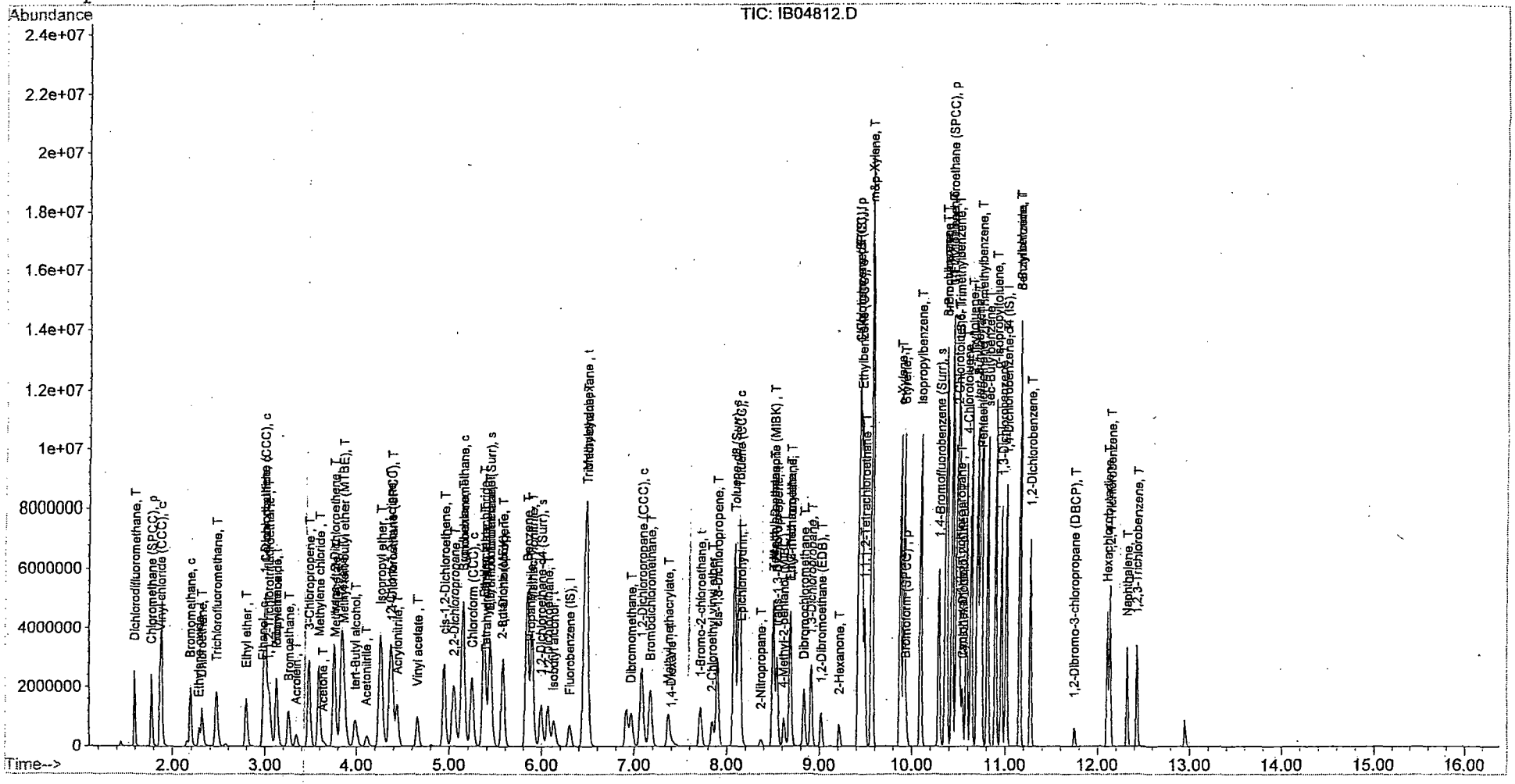
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
76)	1,3-Dichloropropane	8.91	76	1592477	113.8443 PPB		98
77)	1,2-Dibromoethane (EDB)	9.02	107	745925	122.1073 PPB		100
78)	2-Hexanone	9.22	43	434795	155.7823 PPB		98
79)	Chlorobenzene (SPCC)	9.44	112	3770588	102.5675 PPB		97
80)	1-Chlorohexane	9.42	55	1248670	103.6983 PPB		98
81)	Ethylbenzene (CCC)	9.46	106	2200868	100.9101 PPB		98
82)	1,1,1,2-Tetrachloroethane	9.49	131	1212805	111.1755 PPB		99
83)	m&p-Xylene	9.57	106	5455438	200.5881 PPB		92
84)	o-Xylene	9.88	106	2608743	102.3637 PPB		97
85)	Bromoform (SPCC)	9.94	173	481135	129.9227 PPB		99
86)	Styrene	9.92	104	4230347	111.8224 PPB		98
87)	Isopropylbenzene	10.09	105	5867905	97.8986 PPB		99
88)	Bromobenzene	10.36	156	1342437	109.5578 PPB		97
89)	n-Propylbenzene	10.37	120	1804211	101.5576 PPB		91
90)	1,1,2,2-Tetrachloroethane	10.43	83	875987	128.4619 PPB		100
93)	2-Chlorotoluene	10.48	126	1465371	100.2162 PPB		98
94)	Cyclohexanone	10.54	42	75597	1418.8244 PPB	#	84
95)	1,2,3-Trichloropropane	10.52	110	278179	129.6447 PPB		100
96)	trans-1,4-Dichloro-2-buten	10.54	53	249010	130.8615 PPB		97
97)	3-Ethyltoluene	10.43	105	6084671	98.2947 PPB		98
98)	4-Chlorotoluene	10.59	126	1449962	99.7484 PPB		95
99)	1,3,5-Trimethylbenzene	10.50	105	5108557	97.9908 PPB		63
100)	2-Ethyltoluene	10.64	105	6014152	97.2721 PPB		78
101)	tert-Butylbenzene	10.70	91	2659646	93.6314 PPB	#	68
102)	Pentachloroethane	10.73	167	854212	122.7099 PPB		99
103)	1,2,4-Trimethylbenzene	10.75	105	5132327	98.6753 PPB		98
104)	sec-Butylbenzene	10.82	105	6035226	93.4310 PPB		99
105)	p-Isopropyltoluene	10.90	119	5422845	96.2817 PPB		99
106)	1,3-Dichlorobenzene	10.96	146	2580243	103.2830 PPB		99
107)	1,4-Dichlorobenzene	11.02	146	2667718	102.5905 PPB		99
108)	Benzyl chloride	11.16	126	393605	120.3410 PPB	#	76
109)	n-Butylbenzene	11.16	134	1382034	96.8633 PPB		97
110)	1,2-Dichlorobenzene	11.27	146	2152363	108.3013 PPB		99
112)	1,2-Dibromo-3-chloropropan	11.75	157	126855	118.8698 PPB		97
113)	Hexachlorobutadiene	12.11	225	654713	85.7536 PPB		100
114)	1,2,4-Trichlorobenzene	12.14	180	1204649	101.2920 PPB		99
115)	Naphthalene	12.33	128	1864167	115.4398 PPB		100
116)	1,2,3-Trichlorobenzene	12.44	180	819206	101.8465 PPB		100

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04812.D Vial: 12
Acq On : 4 Nov 2008 7:02 pm Operator: kma
Sample : STD 100ppb Inst : MSI
Misc : 1,1, 100uL/50mL 08MSV0802 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 4 19:19 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Sep 24 14:27:06 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04819.D
Acq On : 5 Nov 2008 5:26 pm
Sample : 50ppb ICV;composite mix,COMP
Misc : 1,1, 12.5uL/50mL 08MSV0816
MS Integration Params: VOA.P
Quant Time: Nov 7 16:00 19108

Vial: 19
Operator: kma
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

BOM 11/7/08

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Only worked up: Target Analytes

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	806466	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	179195	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.01	152	239439	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	202756	17.2372 PPB	0.00
Spiked Amount 16.700			Recovery	= 103.23%	
50) 1,2-Dichloroethane-d4 (Sur	6.00	67	101919	15.1867 PPB	0.00
Spiked Amount 16.700			Recovery	= 90.96%	
64) Toluene-d8 (Surr)	8.09	98	800223	17.2821 PPB	0.00
Spiked Amount 16.700			Recovery	= 103.47%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	262347	15.6624 PPB	0.00
Spiked Amount 16.700			Recovery	= 93.77%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	778134	43.6610 PPB	S	99
3) Chloromethane (SPCC)	1.78	50	644832	36.8995 PPB	S	100
4) Vinyl chloride (CCC)	1.86	62	843039	44.6218 PPB	S	100
5) Bromomethane	2.19	94	486268	49.3563 PPB	S	99
7) Chloroethane	2.32	64	574446	45.0095 PPB	S	100
8) Trichlorofluoromethane	2.47	101	919597	46.9673 PPB	S	99
9) Ethyl ether	2.79	59	482951	48.1699 PPB		99
10) Ethanol	2.97	45	95064	1381.2115 PPB		76
11) 1,1-Dichloroethene (CCC)	2.99	96	583888	48.2760 PPB		98
12) Carbon disulfide	3.01	76	2096117	49.2708 PPB		99
13) 1,1,2-Trichlorotrifluoroet	3.04	101	507919	43.5516 PPB		98
15) Iodomethane	3.13	142	938525	50.6563 PPB		99
16) Bromoethane	3.26	108	457696	46.6182 PPB		99
18) 3-Chloropropene	3.48	41	1117385	45.5753 PPB		98
19) Methylene chloride	3.59	84	669194	48.4354 PPB		98
20) Acetone	3.64	58	33552	56.2419 PPB		91
21) trans-1,2-Dichloroethene	3.75	96	680602	50.1510 PPB		98
23) Hexane	3.84	86	218738	48.3330 PPB	#	86
24) Methyl tert-butyl ether (M	3.86	73	1429654	50.7055 PPB		80
25) tert-Butyl alcohol	3.99	59	633199	1155.7514 PPB		94
26) Acetonitrile	4.11	40	122676	251.6181 PPB		99
27) Isopropyl ether	4.26	45	2398705	48.1228 PPB		99
28) 2-Chloro-1,3-butadiene	4.36	88	126878	12.1307 PPB		99
29) 1,1-Dichloroethane (SPCC)	4.38	63	1274715	47.9396 PPB		100
30) Acrylonitrile	4.44	53	667707	263.3640 PPB		99
32) cis-1,2-Dichloroethene	4.95	96	732575	51.2175 PPB		98
33) 2,2-Dichloropropane	5.05	77	987537	49.5274 PPB		97
34) Cyclohexane	5.14	56	1192446	48.1540 PPB		100
35) Bromochloromethane	5.15	130	356717	53.2498 PPB		98
37) Chloroform (CCC)	5.24	83	1153469	50.2392 PPB		99
38) Carbon tetrachloride	5.37	117	767334	49.4070 PPB		99
40) Ethyl acetate	5.37	43	1734137	270.1849 PPB		99
41) Tetrahydrofuran	5.40	72	51189	55.1221 PPB		98
43) 1,1,1-Trichloroethane	5.44	97	952738	49.6209 PPB		98

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04819.D Vial: 19
Acq On : 5 Nov 2008 5:26 pm Operator: kma
Sample : 50ppb ICV;composite mix,COMP Inst : MSI
Misc : 1,1, 12.5uL/50mL 08MSV0816 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 7 16:00 19108 Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,1-Dichloropropene	5.58	75	905004	49.0358 PPB		97
45)	2-Butanone (MEK)	5.56	43	154997	53.0926 PPB		84
46)	Benzene	5.84	78	2873143	49.4078 PPB		96
48)	Propanenitrile	5.88	54	256223	268.8863 PPB		93
49)	Methacrylonitrile	5.90	67	146802	47.9236 PPB	#	88
51)	1,2-Dichloroethane	6.07	62	660290	47.0630 PPB		99
52)	Isobutyl alcohol	6.13	43	302188	1031.4614 PPB		100
54)	Trichloroethene	6.50	130	658158	48.8338 PPB		98
55)	Dibromomethane	6.97	93	267322	52.8215 PPB		99
56)	n-Butanol	6.92	56	500393	2582.2918 PPB		98
57)	1,2-Dichloropropane (CCC)	7.08	63	687267	50.5172 PPB		99
58)	Bromodichloromethane	7.17	83	781174	50.0544 PPB		99
59)	1,4-Dioxane	7.41	88	72146	1188.1733 PPB		93
60)	Methyl methacrylate	7.37	69	263380	47.4179 PPB		98
61)	1-Bromo-2-chloroethane	7.71	63	719235	50.0416 PPB		99
62)	cis-1,3-Dichloropropene	7.90	75	1021055	53.1049 PPB		97
66)	Toluene (CCC)	8.13	91	2818030	46.5831 PPB		99
67)	Epichlorohydrin	8.16	57	144924	235.0352 PPB		81
68)	2-Nitropropane	8.37	43	312766	205.8607 PPB	#	66
69)	Tetrachloroethene	8.51	164	491265	49.0707 PPB		99
70)	4-Methyl-2-pentanone (MIBK	8.51	43	335172	54.9419 PPB		98
71)	trans-1,3-Dichloropropene	8.55	75	823011	52.8088 PPB		98
72)	1,1,2-Trichloroethane	8.69	97	408980	49.5858 PPB		98
73)	4-Methyl-2-pentanol (MIBC)	8.62	45	59692	50.1365 PPB		96
74)	Ethyl methacrylate	8.69	69	546917	47.5416 PPB		98
75)	Dibromochloromethane	8.83	129	487557	54.8075 PPB		100
76)	1,3-Dichloropropane	8.91	76	828677	49.4574 PPB		99
77)	1,2-Dibromoethane (EDB)	9.02	107	381032	52.2543 PPB		99
78)	2-Hexanone	9.22	43	223066	59.4920 PPB		99
79)	Chlorobenzene (SPCC)	9.44	112	1814028	48.6603 PPB		98
80)	1-Chlorohexane	9.42	55	628431	48.1911 PPB		99
81)	Ethylbenzene (CCC)	9.46	106	1014767	48.0061 PPB		92
82)	1,1,1,2-Tetrachloroethane	9.49	131	586339	51.3872 PPB		100
83)	m&p-Xylene	9.57	106	2561829	97.8012 PPB		98
84)	o-Xylene	9.88	106	1205863	49.6839 PPB		99
85)	Bromoform (SPCC)	9.94	173	240900	60.5762 PPB		100
86)	Styrene	9.92	104	1849201	51.4395 PPB		99
87)	Isopropylbenzene	10.09	105	2944035	51.4710 PPB		100
88)	Bromobenzene	10.36	156	636613	52.3151 PPB		99
89)	n-Propylbenzene	10.37	120	825148	50.9023 PPB		99
90)	1,1,2,2-Tetrachloroethane	10.43	83	426419	49.8632 PPB		99
93)	2-Chlorotoluene	10.48	126	683627	49.1529 PPB		98
94)	Cyclohexanone	10.54	42	518090	3715.2111 PPB		94
95)	1,2,3-Trichloropropane	10.52	110	137911	48.0542 PPB		90
96)	trans-1,4-Dichloro-2-buten	10.54	53	97619	45.9322 PPB		79
97)	3-Ethyltoluene	10.43	105	2839061	47.9593 PPB		100
98)	4-Chlorotoluene	10.59	126	702236	50.9277 PPB		99
99)	1,3,5-Trimethylbenzene	10.50	105	2380964	47.6262 PPB		65
100)	2-Ethyltoluene	10.64	105	2861430	47.6871 PPB		77

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04819.D
Acq On : 5 Nov 2008 5:26 pm
Sample : 50ppb ICV;composite mix,COMP
Misc : 1,1, 12.5uL/50mL 08MSV0816
MS Integration Params: VOA.P
Quant Time: Nov 7 16:00 19108

Vial: 19
Operator: kma
Inst : MSI
Multiplr: 1.00
Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

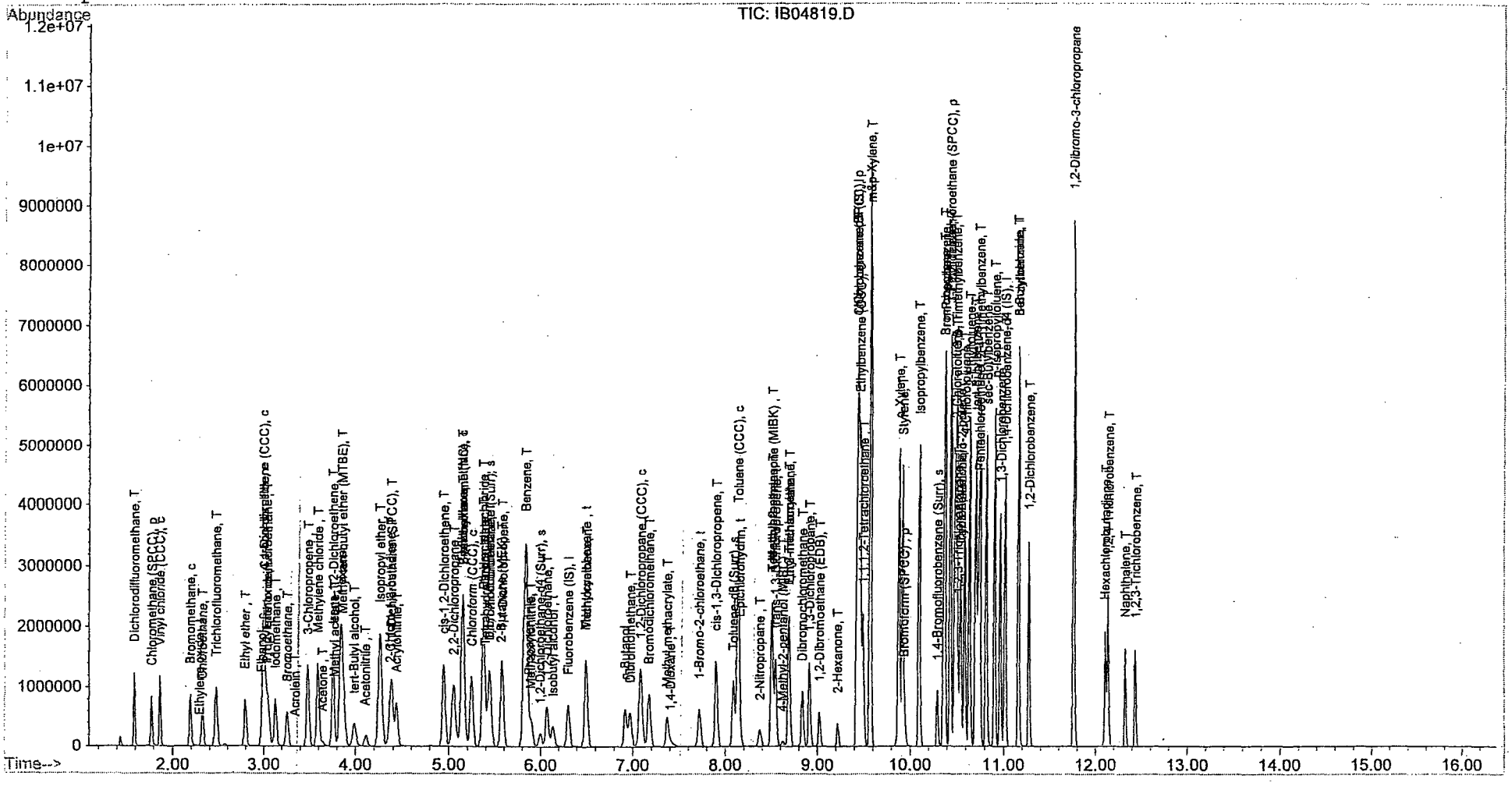
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
101)	tert-Butylbenzene	10.70	91	1291260	47.0593	PPB	#	73
102)	Pentachloroethane	10.73	167	377205	54.0155	PPB		99
103)	1,2,4-Trimethylbenzene	10.75	105	2386955	47.6795	PPB		99
104)	sec-Butylbenzene	10.82	105	3012398	49.3302	PPB		99
105)	p-Isopropyltoluene	10.90	119	2594816	49.7191	PPB		99
106)	1,3-Dichlorobenzene	10.96	146	1223421	49.3817	PPB		100
107)	1,4-Dichlorobenzene	11.02	146	1229594	46.8814	PPB		99
108)	Benzyl chloride	11.16	126	156394	44.0303	PPB		91
109)	n-Butylbenzene	11.16	134	632698	51.9323	PPB		93
110)	1,2-Dichlorobenzene	11.27	146	1032592	50.1131	PPB		100
112)	1,2-Dibromo-3-chloropropan	11.75	157	64899	54.2404	PPB	#	1
113)	Hexachlorobutadiene	12.11	225	281880	45.0881	PPB		99
114)	1,2,4-Trichlorobenzene	12.14	180	589552	53.5776	PPB		99
115)	Naphthalene	12.33	128	895267	55.9515	PPB		100
116)	1,2,3-Trichlorobenzene	12.44	180	392316	50.2082	PPB		99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04819.D Vial: 19
Acq On : 5 Nov 2008 5:26 pm Operator: kma
Sample : 50ppb ICV;composite mix Inst : MSI
Misc : 1,1, 12.5uL/50mL 08MSV0816 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 5 17:42 19108 Quant Results File: I81104W.RES

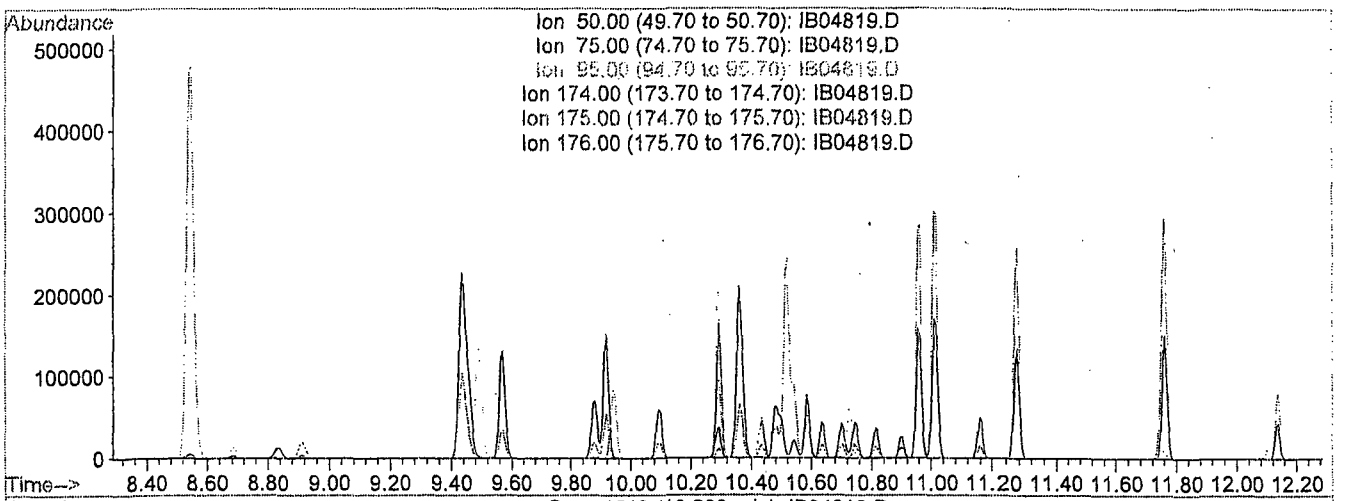
Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Nov 05 13:16:55 2008
Response via : Initial Calibration

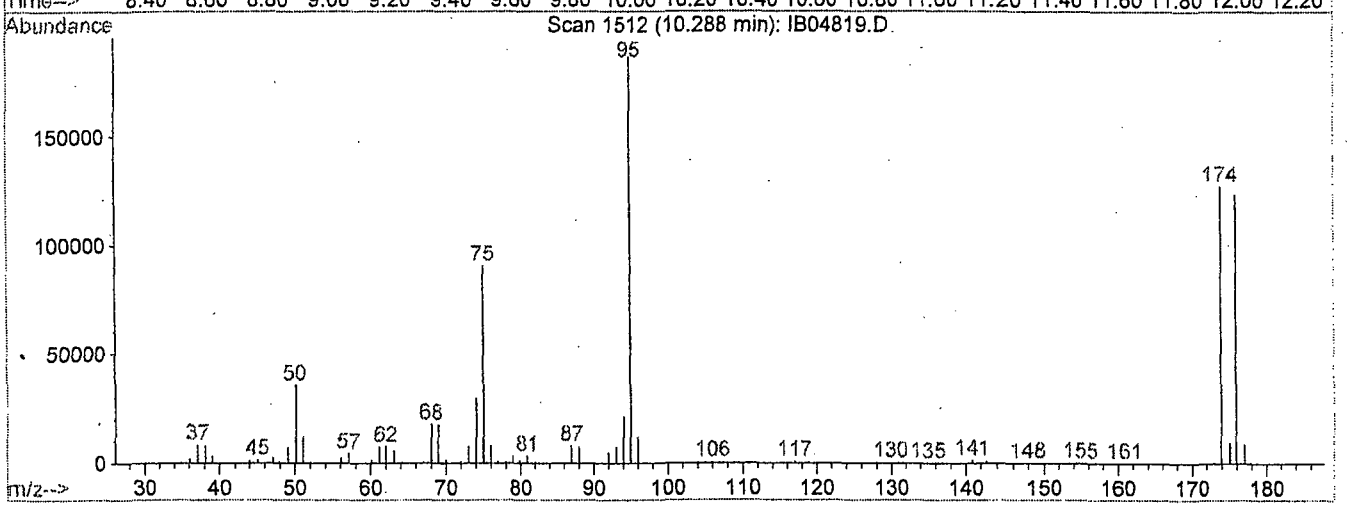


BFB

Data File : H:\MSI.I\I110408.B\IB04819.D
Acq On : 5 Nov 2008 5:26 pm
Sample : 50ppb ICV;composite mix,COMP
Misc : 1,1, 12.5uL/50mL 08MSV0816
MS Integration Params: VOA.P
Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water

Vial: 19
Operator: kma
Inst : MSI
Multiplr: 1.00





Spectrum Information: Scan 1512

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	35792	PASS
75	95	30	60	48.7	90568	PASS
95	95	100	100	100.0	186112	PASS
96	95	5	9	6.4	11993	PASS
173	174	0.00	2	0.6	706	PASS
174	95	50	100	68.4	127384	PASS
175	174	5	9	7.2	9214	PASS
176	174	95	101	97.1	123672	PASS
177	176	5	9	7.2	8847	PASS

Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04822.D Vial: 22
Acq On : 6 Nov 2008 11:43 am Operator: kma
Sample : 50ppb ICV;reactives mix,RC Inst : MSI
Misc : 1,1, 12.5/50 08MSV0819/810 25/50 08MSV08 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 7 16:02 19108 Quant Results File: I81104W.RES

BOD 11/7/08

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Only worked up: Target Analytes

2-cent only
Rerun Acrolein VA due to incorrect prep.

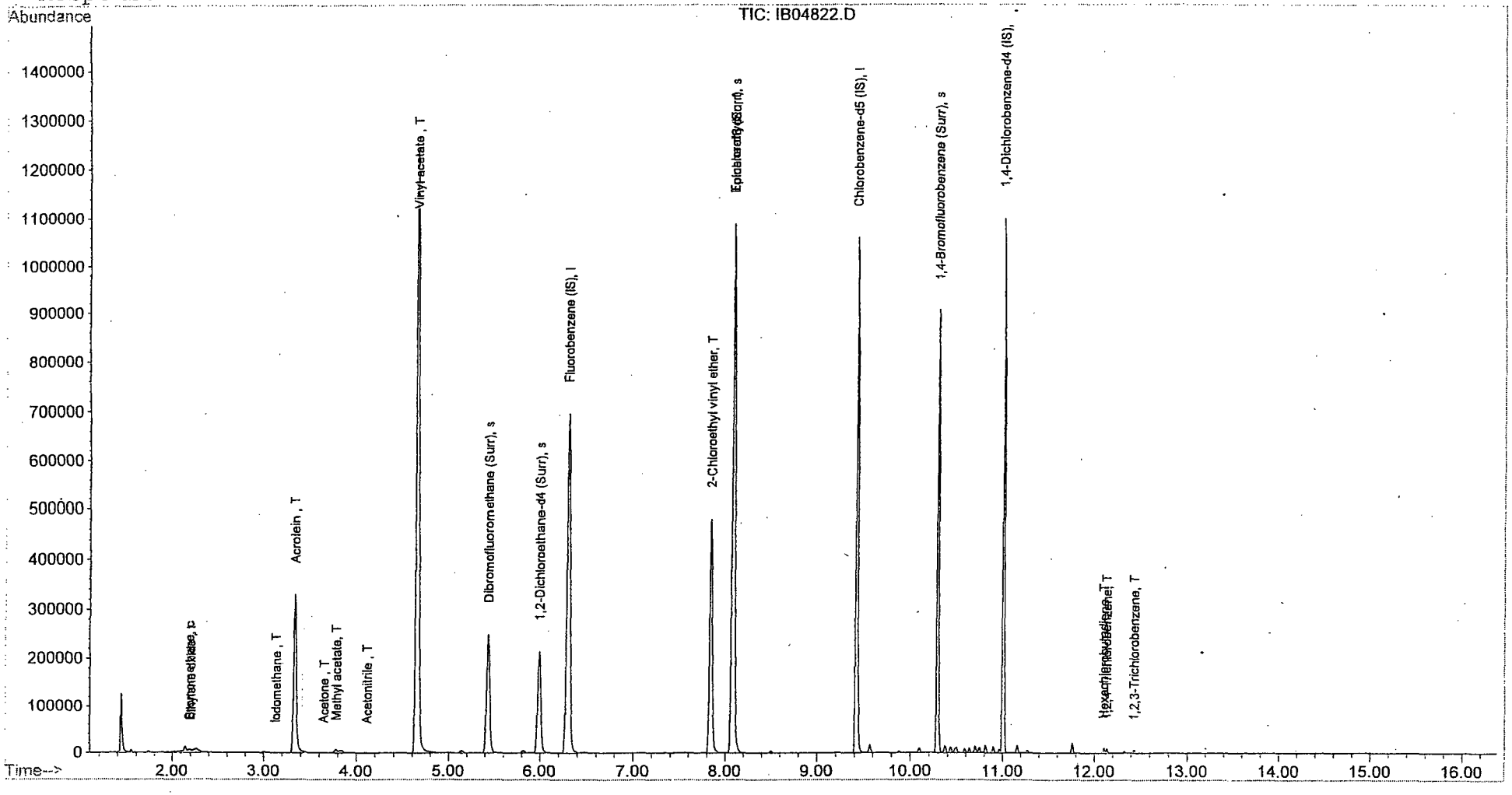
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	814251	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	164213	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	212949	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	192185	16.1823 PPB	0.00
Spiked Amount 16.700			Recovery = 96.89%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	94826	13.9947 PPB	0.00
Spiked Amount 16.700			Recovery = 83.77%		
64) Toluene-d8 (Surr)	8.08	98	793474	16.9725 PPB	0.00
Spiked Amount 16.700			Recovery = 101.62%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	251537	16.3871 PPB	0.00
Spiked Amount 16.700			Recovery = 98.14%		
Target Compounds					Qvalue
17) Acrolein	3.33	56	326245	466.3598 PPB	100
31) Vinyl acetate	4.65	43	2141674	131.8808 PPB	99
63) 2-Chloroethyl vinyl ether	7.84	63	241611	59.0747 PPB	97

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04822.D Vial: 22
Acq On : 6 Nov 2008 11:43 am Operator: kma
Sample : 50ppb ICV;reactives mix Inst : MSI
Misc : 1,1, 12.5/50 08MSV0819/810 25/50 08MSV08 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 6 12:00 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Nov 05 13:16:55 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04825.D
Acq On : 6 Nov 2008 3:39 pm
Sample : 50ppb ICV;MIX 5 10X ICV,MIX5
Misc : 1,1, 12.5uL/50mL 08MSV0822
MS Integration Params: VOA.P
Quant Time: Nov 7 16:04 19108

Vial: 25
Operator: kma
Inst : MSI
Multiplr: 1.00

Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	817572	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	165279	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	217260	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	191906	16.0932 PPB	0.00
Spiked Amount 16.700			Recovery = 96.35%		
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	97008	14.2586 PPB	0.00
Spiked Amount 16.700			Recovery = 85.39%		
64) Toluene-d8 (Surr)	8.08	98	769893	16.4012 PPB	0.00
Spiked Amount 16.700			Recovery = 98.20%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	247119	15.9955 PPB	0.00
Spiked Amount 16.700			Recovery = 95.81%		

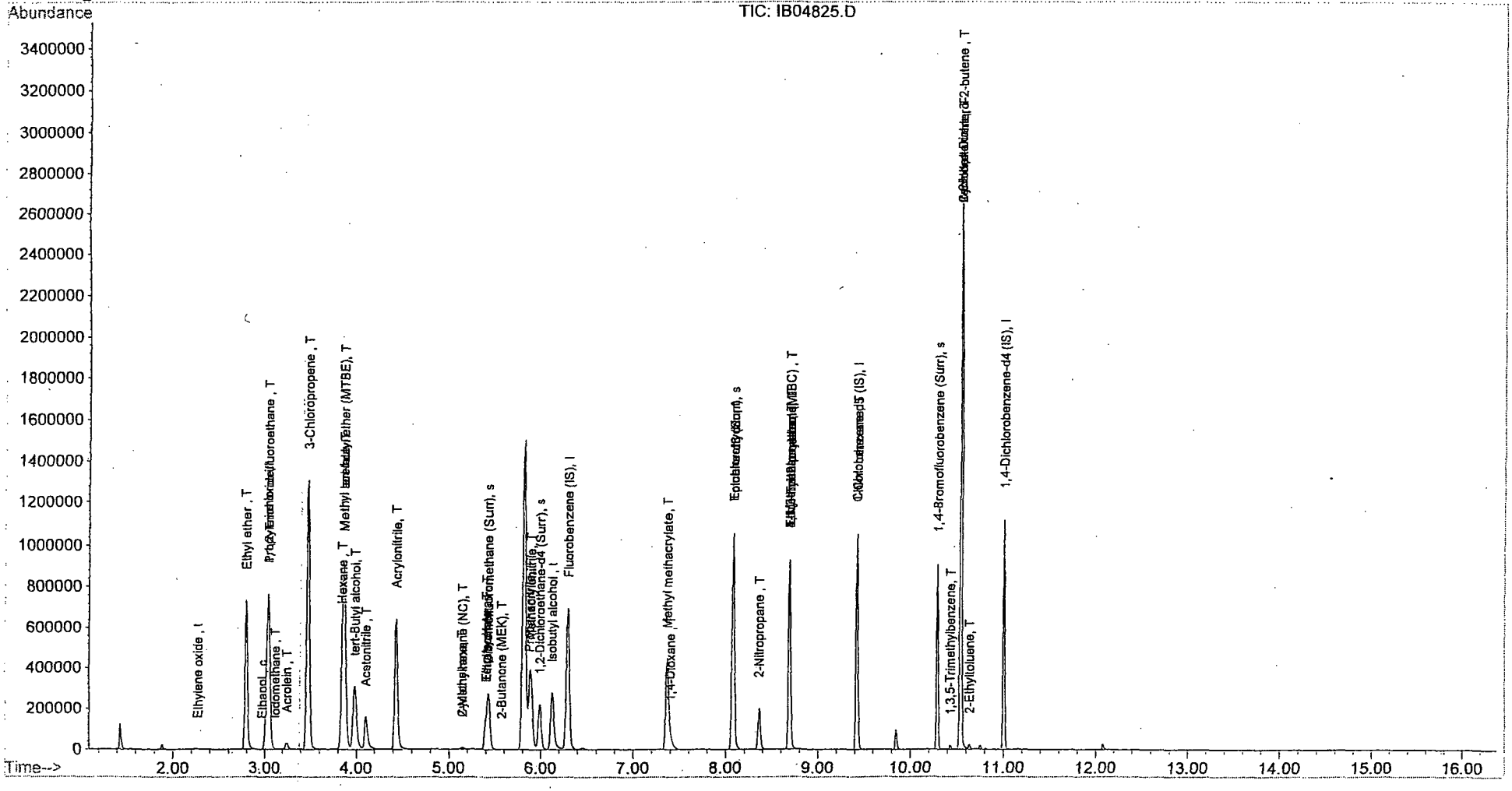
Target Compounds						Qvalue
9) Ethyl ether	2.79	59	449248	44.1996 PPB		99
13) 1,1,2-Trichlorotrifluoroet	3.04	101	468844	39.6550 PPB		99
18) 3-Chloropropene	3.48	41	1066793	42.9207 PPB		98
24) Methyl tert-butyl ether (M	3.86	73	1307188	45.7322 PPB	#	22
25) tert-Butyl alcohol	3.98	59	518285	933.1531 PPB		93
26) Acetonitrile	4.10	40	110033	222.6206 PPB		96
30) Acrylonitrile	4.43	53	607749	236.4585 PPB		99
41) Tetrahydrofuran	5.40	72	36574	38.8492 PPB	#	43
48) Propanenitrile	5.87	54	225370	233.2957 PPB		92
49) Methacrylonitrile	5.89	67	132242	42.5840 PPB		90
52) Isobutyl alcohol	6.12	43	244026	825.6688 PPB		99
59) 1,4-Dioxane	7.41	88	57781	938.6694 PPB		92
60) Methyl methacrylate	7.37	69	229119	40.7970 PPB		97
68) 2-Nitropropane	8.36	43	153292	109.3910 PPB		100
74) Ethyl methacrylate	8.69	69	473519	44.6499 PPB		99
94) Cyclohexanone	10.54	42	562577	4446.0605 PPB		95
96) trans-1,4-Dichloro-2-buten	10.54	53	86988	45.1083 PPB		73

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04825.D Vial: 25
Acq On : 6 Nov 2008 3:39 pm Operator: kma
Sample : 50ppb ICV;MIX 5 10X ICV Inst : MSI
Misc : 1,1, 12.5uL/50mL 08MSV0822 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 6 15:56 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Nov 05 13:16:55 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04826.D Vial: 26
Acq On : 6 Nov 2008 4:07 pm Operator: kma
Sample : 50ppb ICV;special analytes mix,SPECIAL Inst : MSI
Misc : 1,1, 12.5uL/50mL 08MSV0821 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 7 16:06 19108 Quant Results File: I81104W.RES

Zoom 11/7/08

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

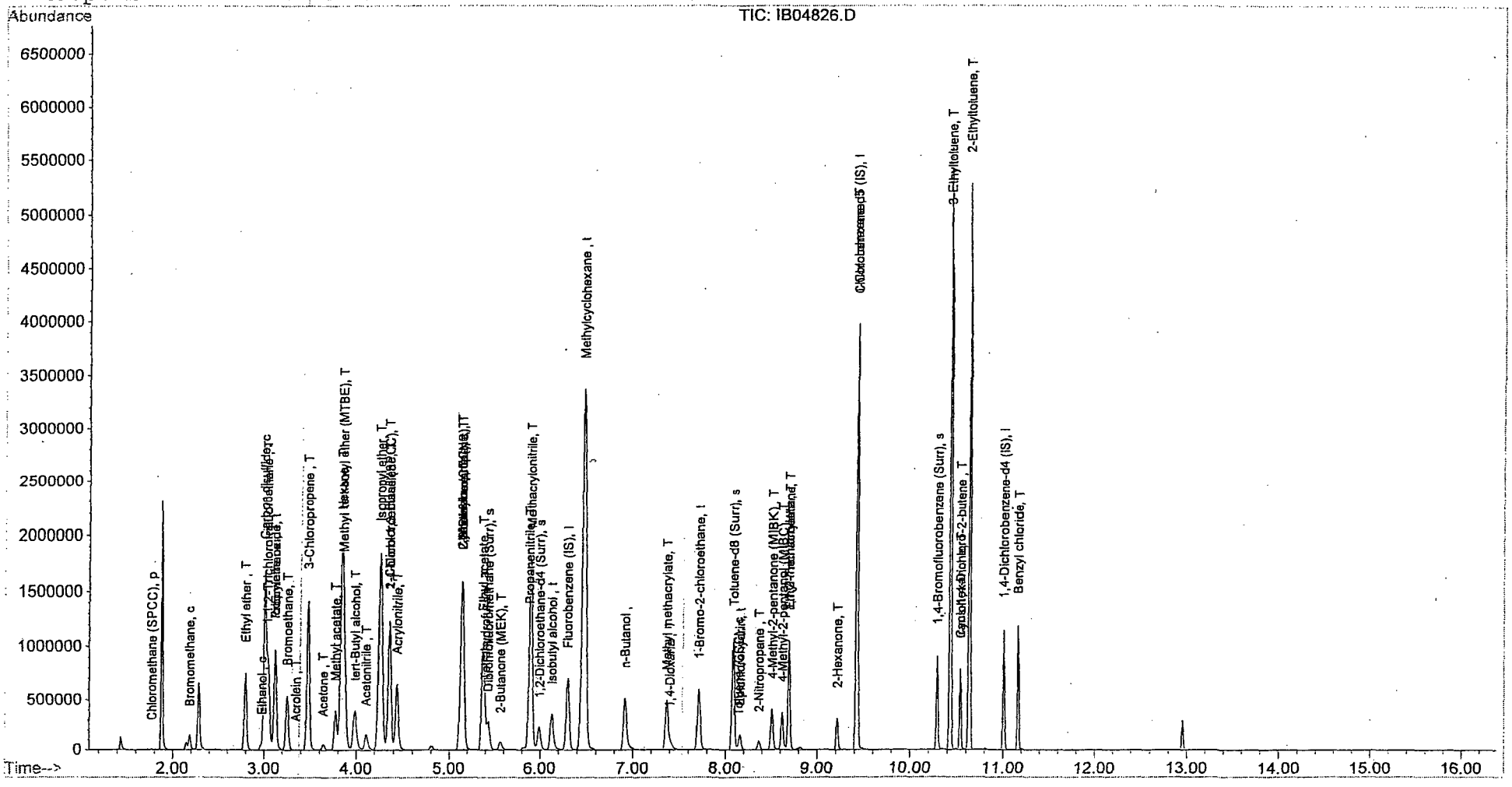
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.30	96	820088	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	175578	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	221747	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.43	113	196439	16.4228 PPB	0.00
Spiked Amount 16.700			Recovery =	98.32%	
50) 1,2-Dichloroethane-d4 (Sur	5.99	67	104041	15.2454 PPB	0.00
Spiked Amount 16.700			Recovery =	91.32%	
64) Toluene-d8 (Surr)	8.08	98	783743	16.6450 PPB	0.00
Spiked Amount 16.700			Recovery =	99.70%	
91) 1,4-Bromofluorobenzene (Su	10.29	95	248969	15.1699 PPB	0.00
Spiked Amount 16.700			Recovery =	90.84%	
Target Compounds					Qvalue
6) Ethylene oxide	2.29	44	728220	497.7105 PPB	99
14) Propylene oxide	3.12	58	342026	235.6408 PPB	98
22) Methyl acetate	3.77	74	126118	119.8765 PPB	98
53) Methylcyclohexane	6.47	83	2053547	115.5646 PPB	99
68) 2-Nitropropane	8.36	43	71808	48.2372 PPB	99
94) Cyclohexanone	10.54	42	35261	273.0298 PPB	96

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04826.D Vial: 26
Acq On : 6 Nov 2008 4:07 pm Operator: kma
Sample : 50ppb ICV;special analytes mix Inst : MSI
Misc : 1,1, 12.5uL/50mL 08MSV0821 Multiplr: 1.00
MS Integration Params: VOA.P
Quant Time: Nov 6 16:24 19108 Quant Results File: I81104W.RES

Method : C:\HPCHEM\1\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Wed Nov 05 13:16:55 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : H:\MSI.I\I110408.B\IB04827.D
Acq On : 7 Nov 2008 7:54 am
Sample : 50ppb ICV;acrolein ICV 10x,RC
Misc : 1,1, 12.5uL/50mL 08MSV0824
MS Integration Params: VOA.P
Quant Time: Nov 7 16:07 19108

Vial: 27
Operator: dy
Inst : MSI
Multiplr: 1.00

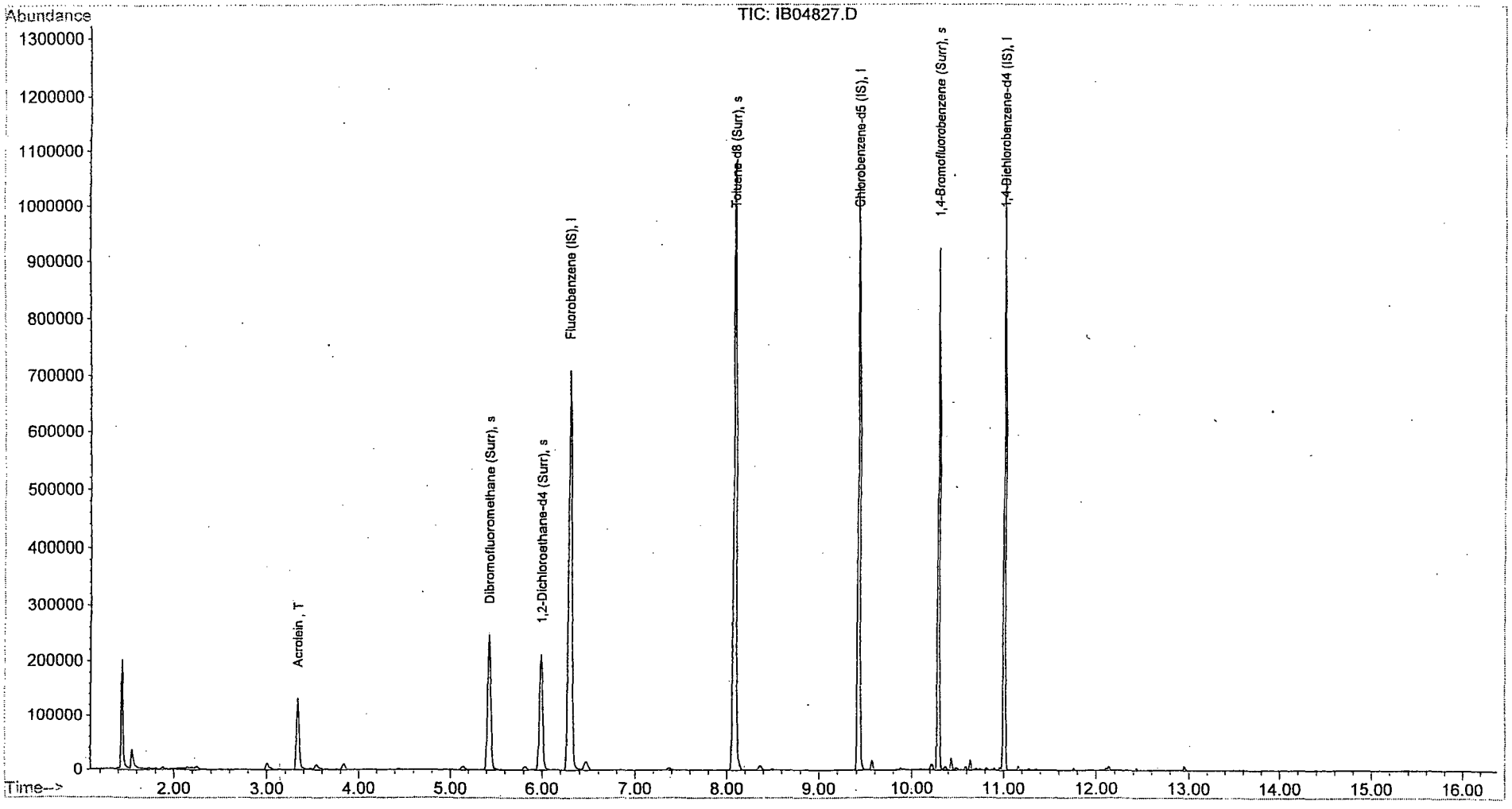
Quant Results File: I81104W.RES

Quant Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Fri Nov 07 15:06:06 2008
Response via : Initial Calibration
DataAcq Meth : I81104W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.29	96	813861	16.7000 PPB	0.00
65) Chlorobenzene-d5 (IS)	9.42	119	164262	16.7000 PPB	0.00
92) 1,4-Dichlorobenzene-d4 (IS	11.00	152	210069	16.7000 PPB	0.00
System Monitoring Compounds					
42) Dibromofluoromethane (Surr	5.42	113	191667	16.1464 PPB	0.00
Spiked Amount 16.700			Recovery = 96.71%		
50) 1,2-Dichloroethane-d4 (Sur	5.98	67	93803	13.8504 PPB	0.00
Spiked Amount 16.700			Recovery = 82.93%		
64) Toluene-d8 (Surr)	8.08	98	792589	16.9617 PPB	0.00
Spiked Amount 16.700			Recovery = 101.56%		
91) 1,4-Bromofluorobenzene (Su	10.29	95	252065	16.4166 PPB	0.00
Spiked Amount 16.700			Recovery = 98.32%		
Target Compounds					Qvalue
17) Acrolein	3.33	56	130396	186.4874 PPB	99

(#)=qualifier out of range (m)=manual integration (S)=analyte in sublist

Quantitation Report

Data File : C:\HPCHEM\1\DATA\I110408.B\IB04827.D Vial: 27
Acq On : 7 Nov 2008 7:54 am Operator: dy
Sample : 50ppb ICV;acrolein ICV 10x Inst : MSI
Misc : 1,1, 12.5uL/50mL 08MSV0824 Multiplr: 1.00
Quant Time: Nov 7 8:23 19108 Quant Results File: I81104W.RES

Method : H:\MSI.I\METHODS\I81104W.M (RTE Integrator)
Title : EPA Method 8260B/624 Calibration Curve 15mL Water
Last Update : Thu Nov 06 14:17:10 2008
Response via : Initial Calibration