US EPA RECORDS CENTER REGION 5
396643

QUARTERLY PROGRESS REPORT

SEPTEMBER 1, 2000
THROUGH
NOVEMBER 30, 2000

WAUKEGAN HARBOR REMEDIAL ACTION

QUARTERLY PROGRESS REPORT

September 1, 2000 Through November 30, 2000

WAUKEGAN HARBOR REMEDIAL ACTION

This report presents a quarterly report for the period September 1 - November 30, 2000 for the Waukegan Harbor Superfund Site pursuant to the Consent Decree for remedial action.

WORK COMPLETED: NEW DATA AND TEST RESULTS

The Category 5 water treatment systems were started on October 5, 2000 and operated during the remainder of the quarter. Sampling and operational data for the Category 5 water treatment systems are presented in Tables 1a-c (Category 5 Water Treatment PCB Analytical Results) and Tables 2a-c (Category 5 Water Treatment Plant Operational Data). Due to maintenance on three of the six recovery wells (discussed below), the November Category 5 treatment system sampling was not performed in November; however, the treatment systems were sampled on December 4, 2000. The December data will be included in the next quarterly report.

Bi-weekly water level measurements were taken throughout the quarter to insure an inward hydraulic gradient at each of the containment cells. Tables 3, 4, and 5 present water level measurements collected during the quarter for the Slip 3, East and West Containment Cells, respectively. An inward hydraulic gradient was maintained at the containment cells throughout the quarter. Table 6 presents water level measurements for the Temporary Designated Soil Stockpile. Water level measurements and stockpile inspection were not performed in November 2000 at the Temporary Designated Soil Stockpile.

Attachment 1 contains copies of Discharge Monitoring Reports (DMR) for NPDES Permit Number IL0002267 for August, September, and October 2000 (the November DMR will be included in the next quarterly report).

OTHER SIGNIFICANT ACTIVITIES

During this reporting period, maintenance repairs were performed on recovery wells R-1 and R-2 located in the Slip 3 Containment Cell and at R-5 located in the West Containment Cell. These repairs were performed in order to improve yields from the recovery wells. Fox Exploration Inc. was contracted to perform the work, which consisted of well screen cleaning, checking/cleaning submersible pumps, repairing one pitless adapter, and replacement of one discharge pipe. These activities took place during the weeks of October 30th and November 6th, 2000.

At the time of startup of the Category 5 treatment systems the groundwater flow rates from recovery wells R-1, R-2, and R-5 were found to be below historical flow rates for these wells. It was determined that the reduction in flow rate was the result of well screen fouling and Fox Exploration was contracted to clean the screens. The screens were acid washed and redeveloped, with all groundwater generated during this process being neutralized and passed through the Category 5 treatment system.

As part of the well screen cleaning activities, each pump was inspected and cleaned. The pump in R-1 had extensive mineralization that was removed prior to placing it back into the well. The two remaining pumps appeared to be in good condition. A new pitless adapter was installed at R-1 because of difficulties in reseating the existing adapter. Upon pulling the pump at R-5 it was discovered that the discharge pipe near the point where it threaded into the pump had four pea-size holes. The morphology of the holes indicates they were the result of cathodic action. Consequently the discharge pipe was replaced.

As a result of these repairs, the groundwater flow rates from the repaired wells have increased back to historic levels.

LEGAL ISSUES

An agreement in principal has been reached between OMC, the U.S. Environmental Protection Agency and the U.S. Department of Justice regarding past costs and other related claims. An Administrative Consent Order is pending.

PLANS FOR THE NEXT QUARTER

The water treatment systems will be winterized and secured for the season.

TABLES

TABLE 1a

FOURTH QUARTER 2000
CATEGORY 5 WATER TREATMENT
PCB ANALYTICAL RESULTS
SLIP 3 CONTAINMENT CELL
WAUKEGAN HARBOR REMEDIAL ACTION

Sample I.D.	Sample Results: PCB (ug/l) 10/17/00
T5-E	ND
T5-I	.59
T5-ID	--
T5-LC	ND

Legend:

T5	Category 5 Water Treatment System
E	System Effluent
LC	Lead Carbon Effluent
I	Influent
D	Duplicate
B	Blank
--	Not Collected
ND	Not detected/below laboratory detection limit
R	Recovery well and number (Influent samples for the treatment systems may be collected either from a combined influent port or for individual recovery wells.)

TABLE 1b

FOURTH QUARTER 2000
CATEGORY 5 WATER TREATMENT
PCB ANALYTICAL RESULTS
EAST CONTAINMENT CELL
WAUKEGAN HARBOR REMEDIAL ACTION

Sample I.D.	Sample Results: PCB (ug/l) 10/17/00
T5-E	ND
T5-I	ND
T5-ID	--
T5-LC	ND

Legend:

T5	Category 5 Water Treatment System
E	System Effluent
LC	Lead Carbon Effluent
I	Influent
D	Duplicate
B	Blank
--	Not Collected
ND	Not detected/below laboratory detection limit
R	Recovery well and number (Influent samples for the treatment systems may be collected either from a combined influent port or for individual recovery wells.)

TABLE 1c

FOURTH QUARTER 2000
CATEGORY 5 WATER TREATMENT
PCB ANALYTICAL RESULTS
WEST CONTAINMENT CELL
WAUKEGAN HARBOR REMEDIAL ACTION

Sample I.D.	Sample Results: PCB (ug/l) 10/17/00
T5-E	ND
T5-I	ND
T5-ID	--
T5-LC	ND
T5-ED	--

Legend:

T5	Category 5 Water Treatment System
E	System Effluent
LC	Lead Carbon Effluent
I	Influent
D	Duplicate
B	Blank
--	Not Collected
ND	Not detected/below laboratory detection limit
R	Recovery well and number (Influent samples for the treatment systems may be collected either from a combined influent port or for individual recovery wells.)

Michael W. Rehor

Discharge Monitoring Data Certified by
Michael W. Rehor
OMC Project Manager

Table 2a
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
SLIP 3 CONTAINMENT CELL

DATE	TIME	TOTALIZER R-1 (W)	TOTALIZER R-2 (E)	GALLONS PER PERIOD	GALLONS TOTAL	COMMENTS
11/17/99	11:00 AM	369,855	485,108	610	87,623	System Shut Down for Winter; Heater is On "high"
10/5/00	13:30 PM	369,855	485,493	385	88,008	Flow Meter for R-1 not working
10/18/00	13:30 PM	369,855	490,857	5,364	93,372	Flow Meter for R-1 not working
10/23/00	11:30 AM	369,855	491,822	965	94,337	Flow Meter for R-1 not working
10/30/00	11:00 AM	369,855	494,204	2,382	96,719	Flow Meter for R-1 not working
11/10/00	10:00 AM	369,855	500,266	6,062	102,781	Flow Meter for R-1 not working
11/21/00	9:45 AM	369,855	501,344	1,078	103,859	Flow Meter for R-1 not working
11/30/00	13:45 PM	369,855	501,442	98	103,957	Flow Meter for R-1 not working

Table 2b
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
EAST CONTAINMENT CELL

DATE	TIME	TOTALIZER R-3	TOTALIZER R-4	GALLONS PER PERIOD	GALLONS TOTAL	COMMENTS
11/17/99	10:30 AM	2,056,994	2,235,030	19,550	1,128,956	System is shut down for winter; heater is on "high."
10/5/00	1:00 PM	2,077,141	2,261,917	47,034	1,175,990	
10/18/00	2:15 PM	2,114,108	2,322,577	97,627	1,273,617	
10/31/00	11:15 AM	2,141,628	2,377,607	82,550	1,356,167	
11/17/00	9:45 AM	2,150,614	2,396,071	27,450	1,383,617	
11/15/00	1:30 PM	2,159,600	2,414,353	27,268	1,410,885	
11/21/00	8:30 AM	2,168,588	2,541,465	136,100	1,546,985	
11/28/00	12:00 PM	2,201,796	2,541,689	33,432	1,580,417	

Table 2c
CATEGORY 5 WATER TREATMENT PLANT
OPERATIONAL DATA
WEST CONTAINMENT CELL

DATE	TIME	TOTALIZER R-5	TOTALIZER R-6	GALLONS PER PERIOD	GALLONS TOTAL	COMMENTS
11/17/99	9:45 AM	2,102,321	3,089,477	6,903	1,305,106	System shut down for winter; heater on "high."
10/5/00	12:45 PM	2,102,355	3,184,635	95,192	1,400,298	
10/18/00	10:00 AM	2,102,355	3,245,601	60,966	1,461,264	
10/23/00	9:30 AM	2,102,355	3,307,141	61,540	1,522,804	
10/31/00	11:00 AM	2,102,355	3,363,969	56,828	1,579,632	
11/9/00	10:45 AM	2,239,355	3,510,063	283,094	1,862,726	
11/15/00	10:30 AM	2,272,735	3,510,063	33,380	1,896,106	Flow Meter for R-6 not working
11/21/00	9:45 AM	2,306,135	3,510,063	33,400	1,929,506	Flow Meter for R-6 not working
11/29/00	10:30 AM	2,339,535	3,510,063	33,400	1,962,906	Flow Meter for R-6 not working

TABLE 3

Slip 3 Containment Ground Water Data
Waukegan Harbor Remedial Action

DATE	T.O.R.	W-1 586.49 (ft)	P-1 587.59 (ft)	W-2 587.52 (ft)	P-2 587.94 (ft)	W-3 585.97 (ft)	P-3 588.61 (ft)	W-4 582.3 (ft)	P-4 587.54 (ft)	R-1 590.6 (ft)	R-2 591.17 (ft)
September 7, 2000	DEPTH	5.05	14.08	5.35	14.8	3.93	15.53	2.4	15.1	17.84	18.78
10:12 AM	ELEV.	581.44	573.51	582.12	573.14	582.04	573.08	579.9	575.92	572.76	572.39
	DIFF.	7.93		8.98		8.96		3.98			
September 12, 2000	DEPTH	4.5	14.12	4.87	14.89	3.44	15.62	2.14	15.16	17.96	18.86
12:16 PM	ELEV.	581.99	573.47	582.6	573.05	582.53	572.99	580.16	575.86	572.64	572.31
	DIFF.	8.52		9.55		9.54		4.3			
September 19, 2000	DEPTH	4.64	14	5.23	14.62	3.85	15.41	2.3	14.88	17.68	18.54
12:40 PM	ELEV.	581.85	573.59	582.24	573.32	582.12	573.2	580	576.14	572.92	572.63
	DIFF.	8.26		8.92		8.92		3.86			
September 26, 2000	DEPTH	4.71	13.99	5.16	14.72	3.81	15.45	2.21	14.97	17.74	18.66
10:30 AM	ELEV.	581.78	573.6	582.31	573.22	582.16	573.16	580.09	576.05	572.86	572.51
	DIFF.	8.18		9.09		9		4.04			

TABLE 3

Slip 3 Containment Ground Water Data
Waukegan Harbor Remedial Action

DATE	T.O.R.	W-1 586.49 (ft)	P-1 587.59 (ft)	W-2 587.52 (ft)	P-2 587.94 (ft)	W-3 585.97 (ft)	P-3 588.61 (ft)	W-4 582.3 (ft)	P-4 587.54 (ft)	R-1 590.6 (ft)	R-2 591.17 (ft)
October 3, 2000	DEPTH	4.74	13.93	5.33	14.65	3.89	15.44	2.43	14.95	17.65	18.6
13:00 PM	ELEV.	581.75	573.66	582.14	573.29	582.08	573.17	579.87	576.07	572.95	572.57
	DIFF.	8.09		8.85		8.91		3.8			
October 9, 2000	DEPTH	4.61	13.81	5.24	14.59	3.81	15.3	2.34	15.43	17.78	22.19
13:00 PM	ELEV.	581.88	573.78	582.23	573.35	582.16	573.31	579.96	575.59	572.82	568.98
	DIFF.	8.1		8.88		8.85		4.37			
October 13, 2000	DEPTH	4.75	13.78	5.38	14.57	3.99	15.24	2.48	15.59	17.79	21.98
14:30 PM	ELEV.	581.74	573.81	582.09	573.37	581.98	573.37	579.82	575.43	572.81	569.19
	DIFF.	7.93		8.72		8.61		4.39			
October 18, 2000	DEPTH	4.88	13.5	5.47	14.7	4.1	15.36	2.53	15.68	17.85	21.27
13:20 PM	ELEV.	581.61	574.09	582	573.24	581.87	573.25	579.77	575.34	572.75	569.9
	DIFF.	7.52		8.76		8.62		4.43			
October 23, 2000	DEPTH	4.99	13.85	5.52	14.75	4.1	15.46	2.54	15.73	17.99	20.36
13:00 PM	ELEV.	581.5	573.74	581.95	573.19	581.87	573.15	579.76	575.29	572.61	570.81
	DIFF.	7.76		8.76		8.72		4.47			
October 30, 2000	DEPTH	5.05	13.95	5.61	14.7	4.21	15.38	2.62	15.5	17.88	19.86
11:40 AM	ELEV.	581.44	573.64	581.86	573.24	581.76	573.23	579.68	575.52	572.72	571.31
	DIFF.	7.8		8.62		8.53		4.16			

TABLE 3

Slip 3 Containment Ground Water Data
Waukegan Harbor Remedial Action

DATE	T.O.R.	W-1 586.49 (ft)	P-1 587.59 (ft)	W-2 587.52 (ft)	P-2 587.94 (ft)	W-3 585.97 (ft)	P-3 588.61 (ft)	W-4 582.3 (ft)	P-4 587.54 (ft)	R-1 590.6 (ft)	R-2 591.17 (ft)
November 6, 2000	DEPTH	5.13	13.77	5.65	14.55	4.21	15.26	2.71	15.27	17.59	18.83
11:40 AM	ELEV.	581.36	573.82	581.82	573.39	581.76	573.35	579.59	575.75	573.01	572.34
	DIFF.	7.54		8.43		8.41		3.84			
November 13, 2000	DEPTH	4.67	13.94	5.25	15.08	3.85	15.83	2.47	16.4	20.33	24.11
10:30 AM	ELEV.	581.82	573.65	582.22	572.86	582.12	572.78	579.83	574.62	570.27	567.06
	DIFF.	8.17		9.36		9.34		5.21			
November 21, 2000	DEPTH	4.95	14.27	5.6	15.62	4.15	16.25	2.18	16.55	22.2	24.95
10:30 AM	ELEV.	581.54	573.32	581.87	572.32	581.82	572.36	580.12	574.47	568.4	566.22
	DIFF.	8.22		9.55		9.46		5.65			
November 27, 2000	DEPTH	4.85	14.34	5.37	15.94	3.96	16.51	2.59	16.88	23.39	24.16
12:00 PM	ELEV.	581.64	573.25	582.1	572	582.01	572.1	579.71	574.14	567.21	567.01
	DIFF.	8.39		10.1		9.91		5.57			

TABLE 4

East Containment Ground Water Data
Waukegan Harbor Remedial Action

DATE	T.O.R.	W-5 588.8 (ft)	P-5 587.9 (ft)	W-6 588.31 (ft)	P-6 587.96 (ft)	W-7 586.71 (ft)	P-7 587.08 (ft)	W-8 586.67 (ft)	P-8 587.86 (ft)	R-3 591.93 (ft)	R-4 591.98 (ft)
September 7, 2000	DEPTH	8.2	13.71	7.15	13.67	5.42	12.46	5.97	13.61	17.65	17.77
10:35 AM	ELEV.	580.6	574.19	581.16	574.29	581.29	574.62	580.7	574.25	574.28	574.21
	DIFF.	6.41		6.87		6.67		6.45			
September 12, 2000	DEPTH	7.64	13.97	6.85	13.9	5.43	12.71	6.7	13.85	17.89	18
12:45 PM	ELEV.	581.16	573.93	581.46	574.06	581.28	574.37	579.97	574.01	574.04	573.98
	DIFF.	7.23		7.4		6.91		5.96			
September 19, 2000	DEPTH	7.9	13.49	6.95	13.49	5.57	12.26	6.22	13.45	17.5	18.45
13:45 PM	ELEV.	580.9	574.41	581.36	574.47	581.14	574.82	580.45	574.41	574.43	573.53
	DIFF.	6.49		6.89		6.32		6.04			
September 26, 2000	DEPTH	7.3	13.87	6.65	13.84	5.44	12.64	6.69	13.81	17.81	18.94
11:30 AM	ELEV.	581.5	574.03	581.66	574.12	581.27	574.44	579.98	574.05	574.12	573.04
	DIFF.	7.47		7.54		6.83		5.93			

TABLE 4

East Containment Ground Water Data
Waukegan Harbor Remedial Action

DATE		W-5	P-5	W-6	P-6	W-7	P-7	W-8	P-8	R-3	R-4
	T.O.R.	588.8	587.9	588.31	587.96	586.71	587.08	586.67	587.86	591.93	591.98
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
October 3, 2000	DEPTH	7.76	13.9	6.85	13.87	5.6	12.7	6.92	13.81	17.91	17.98
14:00 PM	ELEV.	581.04	574	581.46	574.09	581.11	574.38	579.75	574.05	574.02	574
	DIFF.	7.04		7.37		6.73		5.7			
October 9, 2000	DEPTH	7.75	14.11	6.8	14.02	5.55	12.81	6.78	13.99	25.31	19.54
14:00 PM	ELEV.	581.05	573.79	581.51	573.94	581.16	574.27	579.89	573.87	566.62	572.44
	DIFF.	7.26		7.57		6.89		6.02			
October 18, 2000	DEPTH	8	14.62	7.08	14.2	5.58	13	6.88	14.5	24.3	21.61
14:00 PM	ELEV.	580.8	573.28	581.23	573.76	581.13	574.08	579.79	573.36	567.63	570.37
	DIFF.	7.52		7.47		7.05		6.43			
October 23, 2000	DEPTH	8.15	14.85	7.21	14.37	5.68	13.13	6.8	14.7	23.87	21.41
13:50 PM	ELEV.	580.65	573.05	581.1	573.59	581.03	573.95	579.87	573.16	568.06	570.57
	DIFF.	7.6		7.51		7.08		6.71			
October 30, 2000	DEPTH	8.2	14.84	7.12	14.35	5.53	13.08	6.45	14.74	23.92	21.1
11:20 AM	ELEV.	580.6	573.06	581.19	573.61	581.18	574	580.22	573.12	568.01	570.88
	DIFF.	7.54		7.58		7.18		7.1			

TABLE 4

East Containment Ground Water Data
Waukegan Harbor Remedial Action

DATE	T.O.R.	W-5 588.8 (ft)	P-5 587.9 (ft)	W-6 588.31 (ft)	P-6 587.96 (ft)	W-7 586.71 (ft)	P-7 587.08 (ft)	W-8 586.67 (ft)	P-8 587.86 (ft)	R-3 591.93 (ft)	R-4 591.98 (ft)
November 6, 2000	DEPTH	8.17	14.9	7.18	14.22	5.61	13.1	6.3	14.77	30.8	22.25
11:20 AM	ELEV.	580.63	573	581.13	573.74	581.1	573.98	580.37	573.09	561.13	569.73
	DIFF.	7.63		7.39		7.12		7.28			
November 13, 2000	DEPTH	7.65	14.96	6.94	14.4	5.54	13.15	6.75	14.85	21.95	20.73
9:00 AM	ELEV.	581.15	572.94	581.37	573.56	581.17	573.93	579.92	573.01	569.98	571.25
	DIFF.	8.21		7.81		7.24		6.91			
November 21, 2000	DEPTH	8.05	15.5	6.8	14.95	5.61	13.55	6.83	15.84	21.58	22.88
11:30 AM	ELEV.	580.75	572.4	581.51	573.01	581.1	573.53	579.84	572.02	570.35	569.1
	DIFF.	8.35		8.5		7.57		7.82			
November 27, 2000	DEPTH	8.06	15.32	7.06	14.72	5.53	13.49	6.87	15.19	30.25	23.05
13:00 PM	ELEV.	580.74	572.58	581.25	573.24	581.18	573.59	579.8	572.67	561.68	568.93
	DIFF.	8.16		8.01		7.59		7.13			

TABLE 5

West Containment Ground Water Data

Waukegan Harbor Remedial Action

DATE	T.O.R.	W-9 587.81 (ft)	P-9 588.01 (ft)	W-10 587.51 (ft)	P-10 587.52 (ft)	W-11 589.26 (ft)	P-11 588.12 (ft)	W-12 587.13 (ft)	P-12 587.8 (ft)	R-5 603.83 (ft)	R-6 601.56 (ft)
September 7, 2000	DEPTH	5.93	9.72	5.08	10.43	6.85	10	5.95	8.74	25.77	23.29
1102 AM	ELEV.	581.88	578.29	582.43	577.09	582.41	578.12	581.18	579.06	578.06	578.27
	DIFF.	3.59		5.34		4.29		2.12			
September 12, 2000	DEPTH	5.61	9.84	4.77	9.62	6.65	10.21	5.97	8.8	25.92	23.42
1330 PM	ELEV.	582.2	578.17	582.74	577.9	582.61	577.91	581.16	579	577.91	578.14
	DIFF.	4.03		4.84		4.7		2.16			
September 19, 2000	DEPTH	5.72	9.5	4.87	9.21	6.67	9.82	5.87	8.6	25.57	23.1
1300 PM	ELEV.	582.09	578.51	582.64	578.31	582.59	578.3	581.26	579.2	578.26	578.46
	DIFF.	3.58		4.33		4.29		2.06			
September 26, 2000	DEPTH	5.6	9.59	4.65	9.35	6.14	9.95	5.7	8.6	25.67	23.18
1100 AM	ELEV.	582.21	578.42	582.86	578.17	583.12	578.17	581.43	579.2	578.16	578.38
	DIFF.	3.79		4.69		4.95		2.23			

TABLE 5

West Containment Ground Water Data

Waukegan Harbor Remedial Action

DATE	T.O.R.	W-9 587.81 (ft)	P-9 588.01 (ft)	W-10 587.51 (ft)	P-10 587.52 (ft)	W-11 589.26 (ft)	P-11 588.12 (ft)	W-12 587.13 (ft)	P-12 587.8 (ft)	R-5 603.83 (ft)	R-6 601.56 (ft)
October 3, 2000	DEPTH	5.74	9.56	4.88	9.31	6.44	9.91	5.84	8.67	25.65	23.16
1330 PM	ELEV.	582.07	578.45	582.63	578.21	582.82	578.21	581.29	579.13	578.18	578.4
	DIFF.	3.62		4.42		4.61		2.16			
October 9, 2000	DEPTH	5.65	9.91	4.76	9.29	6.32	9.89	5.78	8.8	26.85	29
1430 PM	ELEV.	582.16	578.1	582.75	578.23	582.94	578.23	581.35	579	576.98	572.56
	DIFF.	4.06		4.52		4.71		2.35			
October 13, 2000	DEPTH	5.76	10.01	4.83	9.36	6.41	9.98	5.84	8.94	25.7	29.21
1450 PM	ELEV.	582.05	578	582.68	578.16	582.85	578.14	581.29	578.86	578.13	572.35
	DIFF.	4.05		4.52		4.71		2.43			
October 18, 2000	DEPTH	5.4	10.23	4.88	9.62	6.3	10.2	5.97	9.15	25.91	29.85
1343 PM	ELEV.	582.41	577.78	582.63	577.9	582.96	577.92	581.16	578.65	577.92	571.71
	DIFF.	4.63		4.73		5.04		2.51			
October 23, 2000	DEPTH	5.95	10.39	4.99	9.73	6.32	10.34	6	9.25	26.05	28.06
1400 PM	ELEV.	581.86	577.62	582.52	577.79	582.94	577.78	581.13	578.55	577.78	573.5
	DIFF.	4.24		4.73		5.16		2.58			
October 30, 2000	DEPTH	6	10.68	5	9.93	6.72	10.49	6.05	9.43	23.29	32.7
1100 AM	ELEV.	581.81	577.33	582.51	577.59	582.54	577.63	581.08	578.37	580.54	568.86
	DIFF.	4.48		4.92		4.91		2.71			

TABLE 5

West Containment Ground Water Data

Waukegan Harbor Remedial Action

DATE	T.O.R.	W-9 587.81 (ft)	P-9 588.01 (ft)	W-10 587.51 (ft)	P-10 587.52 (ft)	W-11 589.26 (ft)	P-11 588.12 (ft)	W-12 587.13 (ft)	P-12 587.8 (ft)	R-5 603.83 (ft)	R-6 601.56 (ft)
November 6, 2000	DEPTH	5.91	10.69	5.04	10	6.81	10.61	6.08	9.48	28.47	28.03
1045 AM	ELEV.	581.9	577.32	582.47	577.52	582.45	577.51	581.05	578.32	575.36	573.53
	DIFF.	4.58		4.95		4.94		2.73			
November 13, 2000	DEPTH	5.7	11.13	4.61	10.4	6.37	11.7	5.8	9.69	30.66	32.52
930 AM	ELEV.	582.11	576.88	582.9	577.12	582.89	576.42	581.33	578.11	573.17	569.04
	DIFF.	5.23		5.78		6.47		3.22			
November 21, 2000	DEPTH	5.98	11.8	4.7	11.18	6.58	12.62	6	10.2	31.55	32.65
940 AM	ELEV.	581.83	576.21	582.81	576.34	582.68	575.5	581.13	577.6	572.28	568.91
	DIFF.	5.62		6.47		7.18		3.53			
November 27, 2000	DEPTH	5.84	11.91	4.86	11.74	6.59	12.87	5.98	10.3	31.65	32.64
1230 PM	ELEV.	581.97	576.1	582.65	575.78	582.67	575.25	581.15	577.5	572.18	568.92
	DIFF.	5.87		6.87		7.42		3.65			

TABLE 6

Temporary DesignatedSoil Stockpile (PNA Cell)
Water Level Readings
Waukegan Harbor Remedial Action

READING DATE	READING ABOVE SUMP (in inches)	ELEVATION (feet MSL)	ACTION LEVEL (feet MSL)	DIFFERENCE (in inches)	COMMENTS/ INSPECTION NOTES
8/29/00	33.10	585.57	586.14	-6.86	Cover OK.
9/20/00	32.80	585.54	586.14	-7.16	Cover OK.
10/19/00	32.50	585.52	586.14	-7.46	Cover OK.

ATTACHMENT 1

DISCHARGE MONITORING REPORTS

OMC

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847 689-6200

November 21, 2000

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, IL 62702

Re: Discharge Monitoring Report - October 2000
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the October 2000 Discharge Monitoring Report for the OMC Waukegan facility.

If you have any questions regarding these matters, I can be contacted at 847 / 689-5363.

Sincerely,

Anthony M. Montemurro, CHMM
Environmental Specialist
Outboard Marine Corporation

encl.

cc: J. R. Crawford
J. Moran

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

U.S.E.P.A. Region II

COMMENTS

FACILITY NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

(2-3) ST	(4-10) PERMIT NUMBER	(11-13) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	001	3519	42° 21' 48"	87° 49' 18"

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 1 0 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 1 0 (30-31) DAY 3 1

(32-37) PARAMETER		QUANTITY (28-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
	REPORTED	0.567	0.695	0.943	10^6	0						5/30	24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH	REPORTED						6.55	6.55	6.55		0	1/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						61.8	61.8	61.8		0	1/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	<0.00056	0.00066		0	1/7	24 HOUR
BIPHENYLS	PERMIT CONDITION									Mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 1	2 1
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

Terry D. Schneider
SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL 532 0092
NPDES 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1973 Chapter 111 ½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management

044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. Region II

PERMITTEE NAME	OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION
ADDRESS	100 SEA HORSE DRIVE WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO
PHONE	(847)689-5363

COMMENTS

** DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.*

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	005	3519	42° 21' 51"	87° 49' 17"

REPORTING PERIOD FROM 0 0 (YEAR) 1 0 (MO) 0 1 (DAY) TO 0 0 (YEAR) 1 0 (MO) 3 1 (DAY)

PARAMETER		QUANTITY MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	UNITS	NO EX	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	UNITS	NO EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	REPORTED	•	•	•	10^6		•	•	•				24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH	REPORTED						•	•	•				GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						•	•	•				GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
OIL & GREASE	REPORTED						•	•	•				GRAB
(00550)	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED	REPORTED						•	•	•				24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D. (LAST, FIRST, MI)	PLANT MANAGER (TITLE)	0 0 (YEAR) 1 1 (MO) 2 1 (DAY)

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL 532 0092
WPC 242 11/79

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044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: CMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN. ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	007	3519	42°22'6"	87°48'54"

REPORTING PERIOD FROM 0 0 (YEAR) 1 0 (MO) 0 1 (DAY) TO 0 0 (YEAR) 1 0 (MO) 3 1 (DAY)

PARAMETER		QUANTITY MINIMUM	QUANTITY AVERAGE	QUANTITY MAXIMUM	QUANTITY UNITS	NO EX	CONCENTRATION MINIMUM	CONCENTRATION AVERAGE	CONCENTRATION MAXIMUM	CONCENTRATION UNITS	NO EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
FLOW	REPORTED	0.114	0.147	0.159	10^6	0						2/7	24 HOUR
	PERMIT CONDITION				Gallons							2/7	24 HOUR
PH (00440)	REPORTED						6.58	6.61	6.64		0	2/30	GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						62.0	62.2	62.4		0	2/30	GRAB
	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<.0.0005	<0.0005		0	2/7	24 HOUR
	PERMIT CONDITION							0.001	0.005	Mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D. (LAST FIRST MI)	PLANT MANAGER (TITLE)	0 0 (YEAR) 1 1 (MO) 2 1 (DAY)

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL 532 0002
WPC 242 11/79

This agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Officer.

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.A. Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEAHORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2)	(4-10)	(11-15)			
IL	0002267	015	3519	42° 22' 19"	87° 48' 59"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (22-23) 0 0 (22-23) 1 0 (24-25) 0 1 (YEAR MO DAY) TO (26-27) 0 0 (28-29) 1 0 (30-31) 3 1 (YEAR MO DAY)

(32-37) PARAMETER		QUANTITY (38-44) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER	TITLE OF THE OFFICER	DATE
SCHNEIDER, TERRY D. (LAST FIRST MI)	PLANT MANAGER (TITLE)	0 0 1 1 2 1 (YEAR MO DAY)

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL 532 0092
WPC 242 11/79

This agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Officer.

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. Region II

PERMITTEE NAME: CMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEAHORSE DRIVE
WAUKEGAN IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-10)	(11-13)				
IL	0002267	016	3519	42°22'19"	87°49'15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25): 0 0 YEAR, 1 0 MO, 0 1 DAY TO (26-27) (28-29) (30-31): 0 0 YEAR, 1 0 MO, 3 1 DAY

(32-37) PARAMETER		QUANTITY (38-44) MINIMUM	(45-52) AVERAGE	(53-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(69-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 1	2 1
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Officer.

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD. No flow exceeding 0.3" in 24 hour period during this repostring period.

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC, N.D. ILL. 87 C 4648

(2-3)	(4-15)	(17-19)			
IL	0002267	017	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) 0 0 YEAR (22-23) 1 0 MO (24-25) 0 1 DAY TO (26-27) 0 0 YEAR (28-29) 1 0 MO (30-31) 3 1 DAY

(32-37) PARAMETER		QUANTITY (3 card only) (38-34) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-67) NO EX.	CONCENTRATION (4 card only) (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.092	0.104	0.116	10^6	0						2/30	Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED						7.37	7.41	7.45		0	2/30	Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED						5	5.25	5.5		0	2/30	Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION									mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED						<0.0005	<0.0005	<0.0005		0	2/30	Storm Composite
BIPHENYLS	PERMIT CONDITION									mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 1	2 1
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center

044-020

OMC

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847/689-6200

October 25, 2000

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, IL 62702

Re: Discharge Monitoring Report - September 2000
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the September 2000 Discharge Monitoring Report for the OMC Waukegan facility.

If you have any questions regarding these matters, I can be contacted at 847 / 689-5363.

Sincerely,

Anthony M. Montemurro, CHMM
Environmental Specialist
Outboard Marine Corporation

encl.

cc: J. R. Crawford
J. Moran

S:\EHS\OMC Johnson-Evinrude\WKGN\ENVIR\WATER\NPDES\2000 DMR's\DMR Cover Letters\DRAY 299 2000.doc

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. Region V

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

(2-3) ST	(4-15) PERMIT NUMBER	(16-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	001	3519	42° 21' 48"	87° 49' 18"

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 9 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 9 (30-31) DAY 3 0

(32-37) PARAMETER		QUANTITY (1 card only) (38-44) MINIMUM	(45-52) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (1 card only) (38-45) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.773	1.183	1.188	10^6	0						4/30	24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/30	24 HOUR
pH	REPORTED						6.86	6.86	6.86		0	1/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						68.7	68.7	68.7		0	1/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	<0.00064	0.0008		0	1/7	24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	Mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprison-

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED.

(2-3)	(4-15)	(17-19)			
IL	0002267	006	3519	42°21'51"	87°49'17"
ST	PERMIT NUMBER	OIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25) 0 0 YEAR 0 9 MO 0 1 DAY TO (26-27) (28-29) (30-31) 0 0 YEAR 0 9 MO 3 0 DAY

(32-37) PARAMETER		QUANTITY (38-44) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (38-45) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	*	*	*	10^6		*	*	*				24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH	REPORTED						*	*	*				GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						*	*	*				GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
OIL & GREASE	REPORTED						*	*	*				GRAB
(00550)	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED	REPORTED						*	*	*				24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL 532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. Region II

COMMENTS

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

(2-3)	(4-15)	(16-19)				
IL	0002267	007	3519	42° 22' 6"	87° 48' 54"
ST	PERMIT NUMBER	OUT	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25): 0 0 | 0 9 | 0 1 (YEAR MO DAY) TO (26-27) (28-29) (30-31): 0 0 | 0 9 | 3 0 (YEAR MO DAY)

(32-37) PARAMETER		4 card only (38-34) QUANTITY MINIMUM	(45-52) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only (38-45) CONCENTRATION MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.030	0.132	0.629	10^6	0						2/7	24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED						7.03	7.055	7.08		0	2/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						70.4	71.25	72.1		0	2/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	<0.00055	<0.00091		0	2/7	24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL 532-0092
WPC 242 11/79

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044-026

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. - Region II

FACILITY NAME	OMC WAUKEGAN – FACILITY OF OUTBOARD MARINE CORPORATION
ADDRESS	100 SEA-HORSE DRIVE WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO
PHONE	(847)689-5363

COMMENTS

* *This discharge conveys overflow from outfall 007 only.*

(2-3)	(4-10)	(11-13)			
IL	0002267	008	3519	42° 22' 4"	87° 49' 14"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 09 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 09 (30-31) DAY 30

(32-37) PARAMETER		QUANTITY (1 card only) (38-44) MINIMUM	(45-52) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (1 card only) (38-45) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
FLOW	REPORTED	0	0.146	0.116	10^6	0						2/7	24 HOUR
	PERMIT CONDITION				Gallons							2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	10	25
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes 1979, Chapter 111 ½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Manager.

044-02

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

U.S.E.P.A. - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)683-5363

COMMENTS

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED TO OUTFALL 017.

(1-2)	(3-7)	(10-13)			
IL	0002267	014	3519	42° 22' 15"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 09 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 09 (30-31) DAY 30

(32-37) PARAMETER		QUANTITY (35-34) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (35-45) MINIMUM	(45-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED												GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED												GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED												24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0022
WPC 242 11/79

This agency is authorized to require this information under Illinois Revised Statutes 19 9 Chapter 111 ½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Officer

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)683-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-7)	(17-9)			
IL	0002267	015	3519	42°22'19"	87°48'59"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) 0 0 YEAR (22-23) 0 9 MO (24-25) 0 1 DAY TO (26-27) 0 0 YEAR (28-29) 0 9 MO (30-31) 3 0 DAY

(32-37) PARAMETER		QUANTITY (1 card only) MINIMUM (38-34)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-62)	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (68-70)
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 1179

This Agency is authorized to require this information under Illinois Revised Statutes 1979, Chapter 111½, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Officer

044 020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-15)	(17-5)			
IL	0002267	016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) 0 0 YEAR (22-23) 0 9 MO (24-25) 0 1 DAY TO (26-27) 0 0 YEAR (28-29) 0 9 MO (30-31) 3 0 DAY

(32-37) PARAMETER		QUANTITY (35-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	CONCENTRATION (35-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-66) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons	■					■	*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION					■	6		9		■	*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION					■			30	mg/l	■	*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION					■			0.005	mg/l	■	*/30	Storm Composite
						■					■		
	REPORTED												
	PERMIT CONDITION					■					■		
	REPORTED												
	PERMIT CONDITION					■					■		

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and Belief such information is true, complete, and accurate.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center

044-020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC, N.D. ILL. 87 C 4648

(2-3)	(4-15)	(17-19)			
IL	0002267	017	3519	42°22' 19"	87°49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 9 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 9 (30-31) DAY 3 0

(32-37) PARAMETER		3 card only QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX.	4 card only CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX.	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
FLOW	REPORTED	0.048	0.179	0.436	10^6 Gallons	0						4/30	Calculation
	PERMIT CONDITION											*/30	Calculation
pH (00440)	REPORTED						6.34	7.25	8.31		0	4/30	Grab
	PERMIT CONDITION						6		9			*/30	Grab
TOTAL SUSPENDED SOLIDS	REPORTED						9	12.7	16	mg/l	0	4/30	Storm Composite
	PERMIT CONDITION											*/30	Storm Composite
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005	mg/l	0	4/30	Storm Composite
	PERMIT CONDITION											*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	1 0	2 5
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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044-020

OMC

OUTBOARD MARINE CORPORATION

100 Sea Horse Drive
Waukegan, Illinois 60085-2195
Phone 847 689-6200

September 26, 2000

Mr. Dan Ray
Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, IL 62702

Re: Discharge Monitoring Report - August 2000
NPDES Permit No. IL 0002267

Dear Mr. Ray:

Enclosed is the August 2000 Discharge Monitoring Report for the OMC Waukegan facility.

If you have any questions regarding these matters, I can be contacted at 847 / 689-5363.

Sincerely,

Anthony M. Montemurro, CHMM
Environmental Specialist
Outboard Marine Corporation

encl.

cc: J. R. Crawford
J. Morar

\\S_CORP_01\VOL1\SHARED\EHS\0mc-naco\WKGN\ENVIR\WATER\NPDES\DRAY 270 2000.doc

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

(2-3) ST	(4-16) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	001	3519	42° 21' 48"	87° 49' 18"

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 08 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 08 (30-31) DAY 31

(32-37) PARAMETER		QUANTITY (38-44) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-65) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-65) NO EX	(64-65) FREQUENCY OF ANALYSIS	(66-70) SAMPLE TYPE
FLOW	REPORTED	1.009	1.091	1.188	10^6 Gallons	0						4/30	24 HOUR
	PERMIT CONDITION											1/30	24 HOUR
pH (00440)	REPORTED						7.78	7.78	7.78		0	1/30	GRAB
	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE (00010)	REPORTED						71.4	71.4	71.4		0	1/30	GRAB
	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	1/7	24 HOUR
	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE YEAR	MO	DAY
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	03	26
LAST	FIRST	MI	TITLE			

Terry D. Schneider
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0002
Wed 24, 11/ 9

This Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111 1/2 Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

* DUE TO THE INSTALLATION OF A CLOSED LOOP COOLING SYSTEM IN DECEMBER 1993, DISCHARGE FROM THIS OUTFALL HAS BEEN ELIMINATED

(2-3)	(4-16)	(17-19)			
IL	0002267	006	3519	42° 21' 51"	87° 49' 17"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) (22-23) (24-25) 0 0 | 0 8 | 0 1 (YEAR | MO | DAY) TO (26-27) (28-29) (30-31) 0 0 | 0 8 | 3 1 (YEAR | MO | DAY)

(32-37) PARAMETER		QUANTITY (Pounds only) (30-34) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-65) NO EX	CONCENTRATION (Mg/L only) (35-39) MINIMUM	(40-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-65) NO EX	(66-69) FREQUENCY OF ANALYSIS	(70-76) SAMPLE TYPE
	REPORTED	*	*	*	10^6		*	*	*				24 HOUR
FLOW	PERMIT CONDITION				Gallons							1/7	24 HOUR
pH	REPORTED						*	*	*				GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						*	*	*				GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
OIL & GREASE	REPORTED						*	*	*				GRAB
(00550)	PERMIT CONDITION							15	30	mg/l		1/30	GRAB
POLYCHLORINATED	REPORTED						*	*	*				24 HOUR
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		1/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 9	2 6
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that the information contained in this report is true, complete, and accurate.

Terry D. Schneider
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 11/79

This Agency is authorized to require this information under Illinois Revised Statutes 1979 Chapter 111½ Section 1042. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 per day of violation or a fine up to $25,000.00 per day of violation and imprisonment up to one year. This form has been approved by the Forms Management Center.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE (847)689-5363

COMMENTS

(2-3) ST	(4-6) PERMIT NUMBER	(17-19) DIS	SIC	LATITUDE	LONGITUDE
IL	0002267	007	3519	42° 22' 6"	87° 48' 54"

REPORTING PERIOD FROM (20-21) YEAR 00 (22-23) MO 08 (24-25) DAY 01 TO (26-27) YEAR 00 (28-29) MO 08 (30-31) DAY 31

(12-37) PARAMETER		QUANTITY (38-44) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-69) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	0.033	0.069	0.087	10^6	0						2/7	24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED						6.8	6.87	6.94		0	3/30	GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED						69	70.13	71.7		0	3/30	GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED						<0.0005	<0.0005	<0.0005		0	2/7	24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	00	03	20
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete, and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

* *This discharge conveys overflow from outfall 007 only.*

(2-3)	(4-16)	(17-19)			
IL	*0002267*	*008*	*3519*	*42° 22' 4"*	*87° 49' 14"*
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM	(20-21) YEAR	(22-23) MO	(24-25) DAY	TO	(26-27) YEAR	(28-29) MO	(30-31) DAY
	0 0	*0 8*	*0 1*		*0 0*	*0 8*	*3 1*

(32-37) PARAMETER		QUANTITY (38-44) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-65) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-65) NO EX	(66-69) FREQUENCY OF ANALYSIS	(70-71) SAMPLE TYPE
FLOW	REPORTED	*No Flow **	*No Flow **	*No Flow**	*10^6*	*0*						*2/7*	*24 HOUR*
	PERMIT CONDITION				*Gallons*							*2/7*	*24 HOUR*
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	*TERRY*	*D*	*PLANT MANAGER*	*0 0*	*0 9*	*2 6*
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that to the best of my knowledge and belief, the information contained herein is true, complete and accurate.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION

ADDRESS: 100 SEA-HORSE DRIVE
WAUKEGAN, IL 60085 ATTN: ANTHONY MONTEMURRO

PHONE: (847)689-5363

COMMENTS

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED TO OUTFALL 017.

(2-3)	(4-15)	(17-19)			
IL	0002267	014	3519	42° 22' 15"	87° 49' 18"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM

(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)
0 0	0 8	0 1	TO	0 0	0 8	3 1
YEAR	MO	DAY		YEAR	MO	DAY

(32-37) PARAMETER		QUANTITY (3 card only) MINIMUM (38-41)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-62)	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (66-70)
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								24 HOUR
FLOW	PERMIT CONDITION				Gallons							2/7	24 HOUR
pH	REPORTED												GRAB
(00440)	PERMIT CONDITION						6		9			1/30	GRAB
TEMPERATURE	REPORTED												GRAB
(00010)	PERMIT CONDITION									°F		1/30	GRAB
POLYCHLORINATED	REPORTED												24 HOUR
BIPHENYLS	PERMIT CONDITION							0.001	0.005	mg/l		2/7	24 HOUR
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D	PLANT MANAGER	0 0	0 9	2 6
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I have knowledge of the information contained in this report and that to the best of my knowledge and belief such information is true, complete and accurate.

Terry D. Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 11/79

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-6)	(17-19)			
IL	0002267	015	3519	42° 22' 19"	87° 48' 59"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 8 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 8 (30-31) DAY 3 1

(32-37) PARAMETER		QUANTITY (38-44) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-65) FREQUENCY OF ANALYSIS	(66-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D.	PLANT MANAGER	0 0	0 9	2 6
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true, complete and accurate.

Terry D. Schneider
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0093
WPC 242 11/79

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

STORM WATER DISCHARGES FROM THIS OUTFALL HAVE BEEN DIRECTED TO THE STORM WATER RETENTION POND. THE POND DISCHARGE HAS BEEN DESIGNATED OUTFALL 017.

(2-3)	(4-15)	(17-19)			
IL	0002267	016	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) 00 YEAR (22-23) 08 MO (24-25) 01 DAY TO (26-27) 00 YEAR (28-29) 08 MO (30-31) 31 DAY

(32-37) PARAMETER		QUANTITY (38-34) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-62) NO EX	CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(62-63) NO EX	(64-68) FREQUENCY OF ANALYSIS	(68-70) SAMPLE TYPE
	REPORTED	NO FLOW AT THIS OUTFALL.			10^6								Calculation
FLOW	PERMIT CONDITION				Gallons							*/30	Calculation
pH	REPORTED												Grab
(00440)	PERMIT CONDITION						6		9			*/30	Grab
TOTAL	REPORTED												Storm Composite
SUSPENDED SOLIDS	PERMIT CONDITION								30	mg/l		*/30	Storm Composite
POLYCHLORINATED	REPORTED												Storm Composite
BIPHENYLS	PERMIT CONDITION								0.005	mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE		
SCHNEIDER,	TERRY	D	PLANT MANAGER	00	09	26
LAST	FIRST	MI	TITLE	YEAR	MO	DAY

I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true complete and accurate

Terry D Schneider

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532-0092
WPC 242 11/79

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

IEPA - Region II

PERMITTEE NAME: *OMC WAUKEGAN - FACILITY OF OUTBOARD MARINE CORPORATION*

ADDRESS: *100 SEA-HORSE DRIVE*
WAUKEGAN, IL 60085 *ATTN: ANTHONY MONTEMURRO*

PHONE: *(847)689-5363*

COMMENTS

** SAMPLES REQUIRED FOR EACH PRECIPITATION EVENT GREATER THAN 0.3 INCHES IN A 24 HOUR PERIOD*

THIS DISCHARGE IS FROM THE STORM RETENTION POND, CONSTRUCTED AS AGREED TO IN THE CONSENT DECREE ENTERED IN NRDC V. OMC, N.D. ILL. 87 C 4648

(2-3)	(4-16)	(17-19)			
IL	0002267	017	3519	42° 22' 19"	87° 49' 15"
ST	PERMIT NUMBER	DIS	SIC	LATITUDE	LONGITUDE

REPORTING PERIOD FROM (20-21) YEAR 0 0 (22-23) MO 0 8 (24-25) DAY 0 1 TO (26-27) YEAR 0 0 (28-29) MO 0 8 (30-31) DAY 3 1

PARAMETER (32-37)		QUANTITY (5 card only) MINIMUM (38-44)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-63)	CONCENTRATION (4 card only) MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	REPORTED	0.127	0.127	0.127	10^6	0						1/30	Calculation
	PERMIT CONDITION				Gallons							*/30	Calculation
pH (00440)	REPORTED						6.7	6.7	6.7		0	1/30	Grab
	PERMIT CONDITION						6		9			*/30	Grab
TOTAL SUSPENDED SOLIDS	REPORTED						11	11	11		0	1/30	Storm Composite
	PERMIT CONDITION									mg/l		*/30	Storm Composite
POLYCHLORINATED BIPHENYLS	REPORTED						<0.0005	<0.0005	<0.0005		0	1/30	Storm Composite
	PERMIT CONDITION									mg/l		*/30	Storm Composite
	REPORTED												
	PERMIT CONDITION												
	REPORTED												
	PERMIT CONDITION												

NAME OF PRINCIPAL EXECUTIVE OFFICER			TITLE OF THE OFFICER	DATE			
SCHNEIDER,	TERRY	D	PLANT MANAGER	0 0	0 9	2 6	I certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief such information is true complete and accurate
LAST	FIRST	MI	TITLE	YEAR	MO	DAY	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

IL532 0092
WPC 242 11/79

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ATTACHMENT 2

CATEGORY 5 TREATMENT PLANT ANALYTICAL RESULTS

1.0 Summary Report

1.1 Laboratory Report

Cover Page
Laboratory Narrative
Laboratory Results

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

Outboard Marine Corporation
90 Sea Horse Drive
Waukegan, IL 60085

Attention: Tony Montemurro

PO Number:
Account Number: OMC-314

Login #: L0010410
Report Date: 10/25/00
Work ID: EFFLUENT
Date Received: 10/18/00

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0010410-01	S3T5I	L0010410-02	S3T5LC
L0010410-03	S3T5E	L0010410-04	WT5I
L0010410-05	WT5LC	L0010410-06	WT5E
L0010410-07	ET5I	L0010410-08	ET5LC
L0010410-09	ET5E	L0010410-10	S3T5I/DUP

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0010410

CHAIN OF CUSTODY:

The chain of custody number was 03010.

SHIPMENT CONDITIONS:

The chain of custody was received sealed in a cooler. The temperatures of the coolers were 4 and 2 ° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Stephanie L Lepe DATE: 10/31/00

REPORT NARRATIVE
GC PCB

KEMRON Report No.: L0010410

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: Sample fraction 02 was chosen internally for MS/MSD analyses. All acceptance criteria were met.

SAMPLES

Surrogates: Sample fractions 01 and 10 yielded % recoveries for tetrachloro-m-xylene that were above acceptable limits. The recoveries of decachlorobiphenyl were within limits. All other acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie Stepe DATE: 10/31/00

Rev. 7/14/00

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-01
Client Sample ID: S3T5I
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 14:27

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11207

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L	0.59		0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	193	*	(13 - 154%)
Decachlorobiphenyl	96.1		(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0010410-02
Client Sample ID: S3T5LC
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 14:35

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11208

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-02
Client Sample ID: S3T5LC
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 14:35

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11208

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	36.7		(13 - 154%)		
	Decachlorobiphenyl.....	30.5		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0010410-03
Client Sample ID: S3T5E
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 14:59

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11211

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	38.6		(13 - 154%)		
	Decachlorobiphenyl.....	32.9		(25 - 140%)		

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-04
Client Sample ID: WT5I
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:06

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11212

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	40.9	(13 - 154%)
Decachlorobiphenyl	29.1	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0010410-05
Client Sample ID: WT5LC
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:14

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11213

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-05
Client Sample ID: WT5LC
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:14

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11213

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		59.3	(13 - 154%)		
	Decachlorobiphenyl.....		108	(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0010410-06
Client Sample ID: WT5E
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:22

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11214

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		47.0	(13 - 154%)		
	Decachlorobiphenyl.....		104	(25 - 140%)		

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-07
Client Sample ID: ET5I
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:38

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11216

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	39.7	(13 - 154%)
Decachlorobiphenyl	26.8	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0010410-08
Client Sample ID: ET5LC
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:46

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11217

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-08
Client Sample ID: ET5LC
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:46

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11217

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		46.1	(13 - 154%)		
	Decachlorobiphenyl.....		118	(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0010410-09
Client Sample ID: ET5E
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 15:53

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11218

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		41.6	(13 - 154%)		
	Decachlorobiphenyl.....		85.2	(25 - 140%)		

RL = Reporting Limit

Login #L0010410
October 25, 2000 12:25 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0010410-10
Client Sample ID: S3T5I/DUP
Site/Work ID: EFFLUENT
Matrix: Water

Dil. Type: N/A
COC Info: 03010/
Date Collected: 10/17/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 10/19/00
Analysis Date: 10/20/00 Time: 16:01

Instrument: HP10
Analyst: SMW
Lab File ID: 10G11219

Method: 8082\3510C
Run ID: R104739
Batch : WG86090

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	174	*	(13 - 154%)
Decachlorobiphenyl	112		(25 - 140%)

RL = Reporting Limit

Order #: 00-10-410
October 25, 2000 12:25 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG86036	R104739	L0010410-01		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-02		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-03		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-04		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-05		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-06		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-07		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-08		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-09		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86036	R104739	L0010410-10		Water	PCB	8082\3510C	17-OCT-2000	Extraction
WG86090	R104739	L0010410-01		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-02		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-03		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-04		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-05		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-06		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-07		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-08		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-09		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC
WG86090	R104739	L0010410-10		Water	PCB	8082\3510C	17-OCT-2000	Semivolatile - GC

1.2 Attachments

KEMRON ANALYST LIST

Ohio Valley Laboratory

10/06/2000

ABW - ANGELA B. WIGAL
ADK - ALISHA D. KINDLER
AJN - AMANDA J. NOLAND
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BRG - BRENDA R. GREGORY
CAG - CHERYL A. GRAHAM
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIB - DALIA I. BROWN
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUNGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DMD - DAVID M. DYE
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JDN - JAMIE D. NEWELL
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LKN - LINDA K. NEDEFF
LLB - LORI L. BRADLEY
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MDG - MELISSA D. GRIMES
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
MLS - MICHAEL L. SCHIMMEL
MMB - MAREN M. BEERY
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RWC - ROD W. CAMPBELL
SJK - SINDY J. KINNEY
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TAY - TODD A. YOAK
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS
September 7, 2000

Qualifier	Description
A	See the report narrative
NA	Not applicable
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 40% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
Z	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

OMC

OUTBOARD MARINE CORPORATION

CHAIN OF CUSTODY

OMC FACILITY: OMC WAUKEGAN

PHONE NO.: 847/684-5363

ADDRESS:

SAMPLE COLLECTED BY: (Please Print): DAVE WEBNER

(SIGNATURE): [signature]

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	PCB TOTAL								COMMENTS
	10/17/00		S3 TS I	4	X								
	10/17/00		S3 TS LC	2	X								
	10/17/00		S3 TS E	2	X								
	10/17/00		W TS I	2	X								
	10/17/00		W TS LC	2	X								
	10/17/00		W TS E	2	X								
	10/17/00		E TS I	2	X								
	10/17/00		E TS LC	2	X								
	10/17/00		E TS E	2	X								C/C Sealed
	per bottles [illegible] 10-18-00												Sys intact Cooler Temps 4/2

TRANSFER NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1	[signature]	Bruce Gregory	10/17/00	0930
2				
3				

DISTRIBUTION:

WHITE- ACCOMPANIES SHIPMENT (LAB COPY)

CANARY- ACCOMPANIES SHIPMENT (COURIER COPY)

PINK- OMC FILE

No. 03010

9933-13111

CRF #3

KEMRON Environmental Services — SAMPLES RECEIPT FORM #1 — Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
OMC BRC Other _____	10-18-00	( ) FED-EX ( ) AIRBORNE (✓) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

	COOLER ID: KL650	COOLER ID: Coleman	COOLER ID:
INDEX # :	IZ605897014726423 5	IZ605897014810004/3	INDEX # :
SEALED	(✓) YES ( ) NO	(✓) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY	(✓) YES ( ) NO	(✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP :	(A) (B) 4 °C	(A) (B) 2 °C	(A) (B) °C
TEMP IN RANGE (4°C ± 2°)	(✓) YES ( ) NO	(✓) YES ( ) NO	( ) YES ( ) NO
WET ICE ( )	BLUE ICE (✓)	BLUE ICE (✓)	BLUE ICE ( )
ICE	FROZEN (✓) MELTED ( )	FROZEN (✓) MELTED ( )	FROZEN ( ) MELTED ( )
RADIATION CHECKED	(✓) YES ( ) NO	(✓) YES ( ) NO	( ) YES ( ) NO
SAMPLE INTACT	(✓) YES ( ) NO	(✓) YES ( ) NO	( ) YES ( ) NO
SALVAGEBLE	( ) YES ( ) NO	( ) YES ( ) NO	( ) YES ( ) NO
SAMPLE TYPE:	WATER (✓) SOIL ( ) OTHER ( )	WATER (✓) SOIL ( ) OTHER ( )	WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT	(✓) YES ( ) NO	(✓) YES ( ) NO	( ) YES ( ) NO
LEGIBLE	(✓) YES ( ) NO	(✓) YES ( ) NO	( ) YES ( ) NO
MATCH COC	(✓) YES ( ) NO	(✓) YES ( ) NO	( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) AS APPROPRIATE	( ) YES ( ) NO	( ) YES ( ) NO	( ) YES ( ) NO
LOG-IN COMMENTS		E - 15E E TSLC W TSLC E-TS-1 W-TSI	

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 09/06/00

18

2.0 Full Sample Data Package

2.2 Semivolatiles Data

2.2.3 PCB GC Data (8082)

REPORT NARRATIVE
GC PCB

KEMRON Report No.: L0010410

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: Sample fraction 02 was chosen internally for MS/MSD analyses. All acceptance criteria were met.

SAMPLES

Surrogates: Sample fractions 01 and 10 yielded % recoveries for tetrachloro-m-xylene that were above acceptable limits. The recoveries of decachlorobiphenyl were within limits. All other acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie Stepp DATE: 10/31/00

Rev. 7/14/00

PCB-GC DATA (8082)

Login Number: 1601041D

A. **QC Summary**

✓ Batch QC Summary Form

B. **Sample Data**

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. **Standards Data**

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

_____ Retention time window summary (if applicable)

D. **Raw QC Data**

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

✓ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: SMW Date: 11-27-08

2.2.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATERS , FRONT

	INSTRUMENT : HP10		SMPL ID : L0010410-02
EXT'N DATE : 10/19/2000	ANALYST : SMW	BLK FLNM : 10G11205	SMPL FLNM : 10G11208
EXT'N BENCH SHT : V149P139	RUN DATE : 10/20/2000	LCS FLNM : 10G11206	MS FLNM : 10G11209
EXT'N WORK GRP : WG86036	ANAL WORK GRP : WG86090		MSD FLNM : 10G11210

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY									PERCENT						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MSD RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	0.5	ND	NA	ND	NA	NA	NA	NA	39	113	NA	NA	NA	39	113	NA	0-46					
AROCLOR 1221	0.5	ND	NA	ND	NA	NA	NA	NA	15	175	NA	NA	NA	15	175	NA	0-38					
AROCLOR 1232	0.5	ND	NA	ND	NA	NA	NA	NA	15	210	NA	NA	NA	15	210	NA	0-35					
AROCLOR 1242	0.5	ND	NA	ND	NA	NA	NA	NA	35	154	NA	NA	NA	35	154	NA	0-35					
AROCLOR 1248	0.5	ND	1.93	ND	4.14	4.42	NA	77.2	34	116	NA	82.8	88.4	34	116	6.5	0-31					
AROCLOR 1254	0.5	ND	NA	ND	NA	NA	NA	NA	25	135	NA	NA	NA	25	135	NA	0-36					
AROCLOR 1260	0.5	ND	NA	ND	NA	NA	NA	NA	44	129	NA	NA	NA	44	129	NA	0-41					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		12.2	9.96	7.34	10.5	11.2	61.0	49.8	13	154	36.7	52.5	56.0	13	154							
DECACHLOROBIPHENYL		11.2	14.6	6.09	14.4	11.9	55.9	73.0	25	140	30.5	71.8	59.6	25	140							

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 2.5 ug/L — LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 20 ug/L — MS=MATRIX SPIKE
NA = NOT APPLICABLE — MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

2.2.3.2 Sample Data

Data File : C:\HPCHEM\2\DATA\102000\10G11207.D Vial: 4
Acq On : 20 Oct 2000 14:27 Operator: SMW
Sample : L0010410-01 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 24 8:31 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.68	513548	38.592 UG/L m
Spiked Amount 20.000 Range 13 - 154		Recovery =	192.96%#
12) S DECACHLOROBIPHENYL	4.52	51192	19.215 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	96.08%
Target Compounds			
2) L1 PCB1016{1}	2.21	250381	5.787 UG/L
3) L1 PCB1016{2}	2.32	90098	3.532 UG/L
4) L1 PCB1016{3}	2.45	9191	0.110 UG/L
5) L1 PCB1016{4}	2.69	70404	1.431 UG/L
6) L1 PCB1016{5}	2.88	1826	0.086 UG/L
Sum PCB1016		421900	10.946 UG/L
Average PCB1016			2.189 UG/L
7) L2 PCB1260{1}	2.94	4417	0.226 UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		4417	0.226 UG/L
Average PCB1260			0.226 UG/L

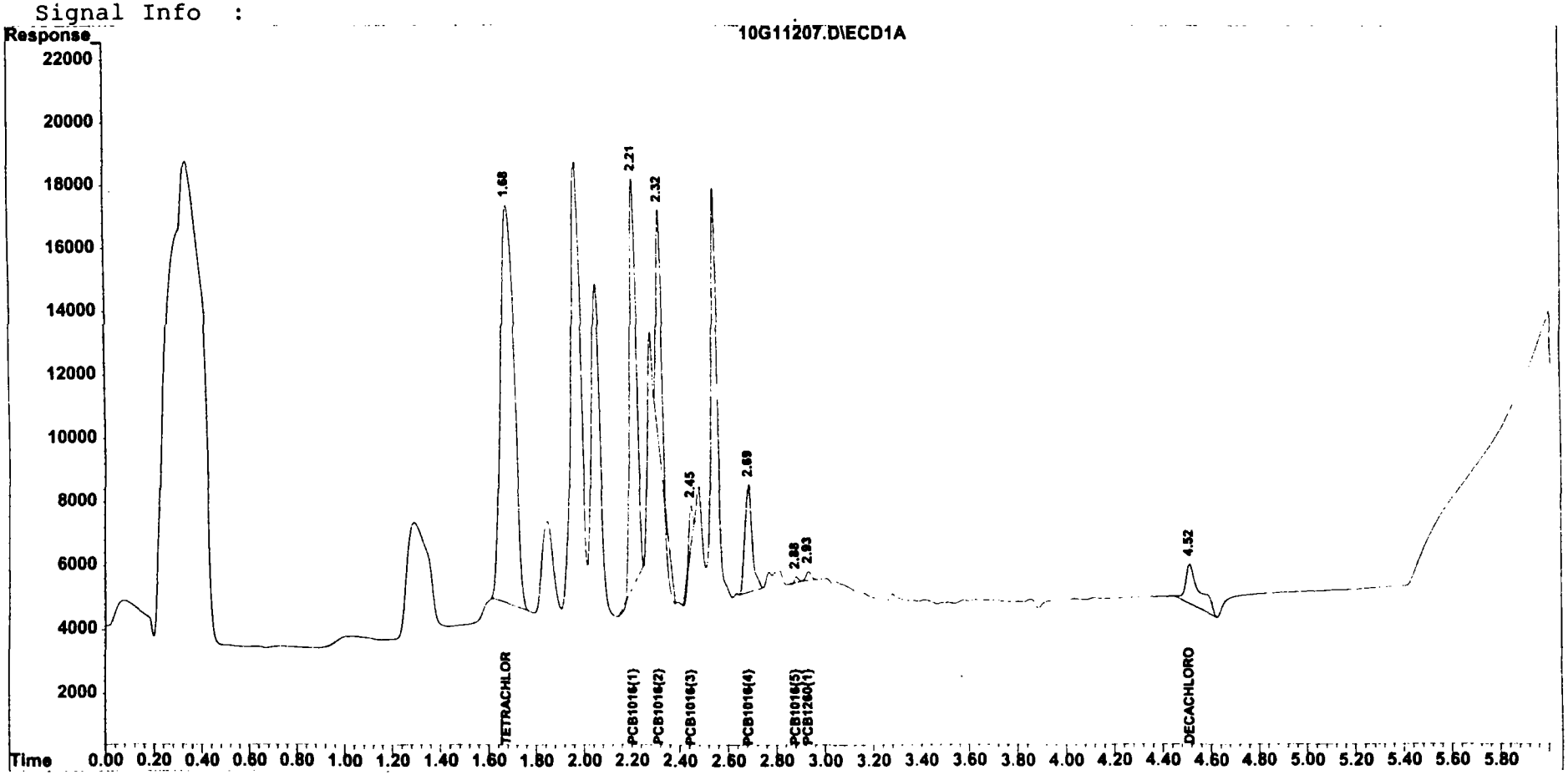
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11207.D Vial: 4
Acq On : 20 Oct 2000 14:27 Operator: SMW
Sample : L0010410-01 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 24 8:31 2000 Quant Results File: 8082EZ.RES

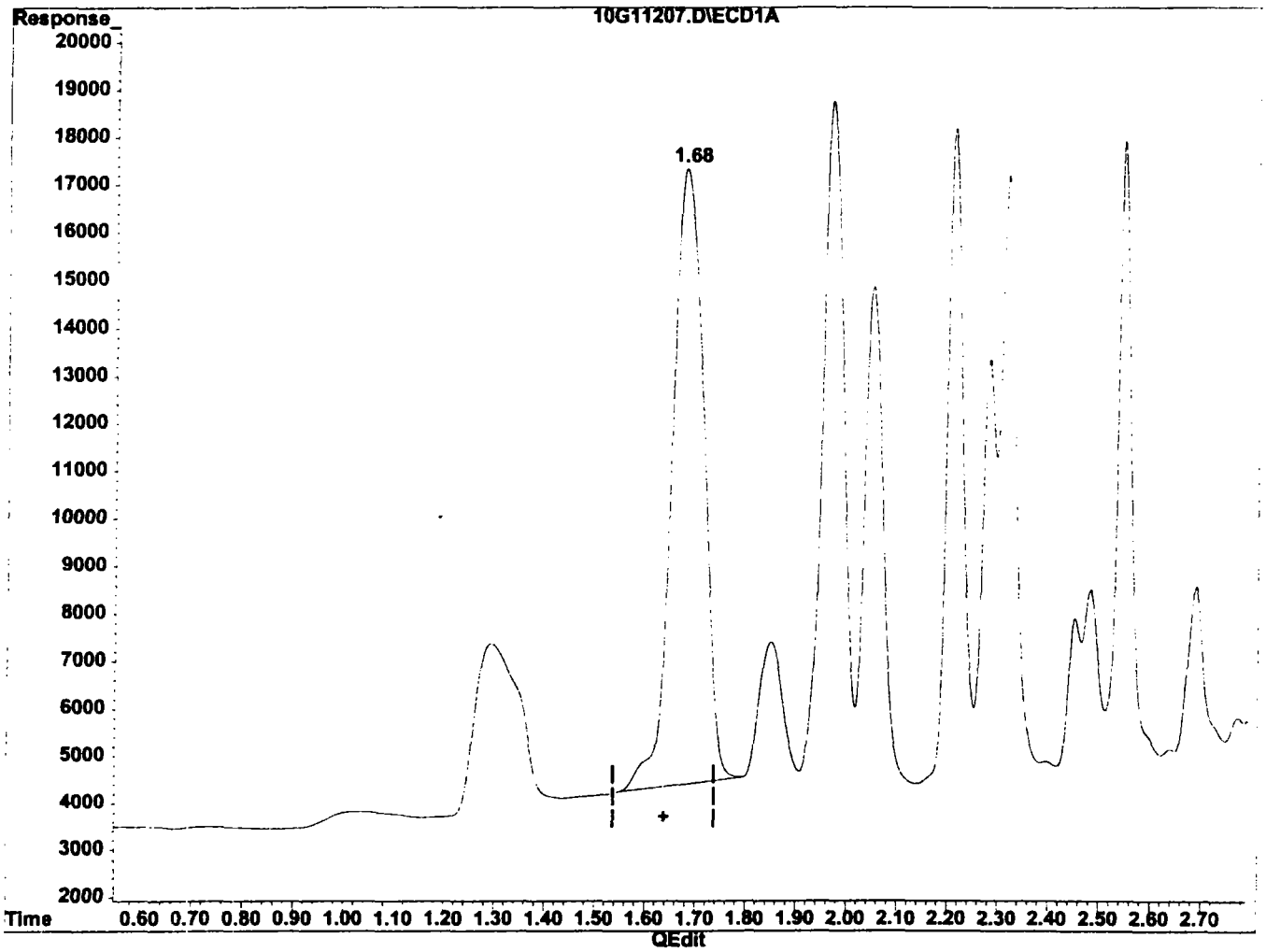
Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11207.D Vial: 4
Acq On : 20 Oct 2000 14:27 Operator: SMW
Sample : L0010410-01 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration



(1) TETRACHLORO-M-XYL (S)

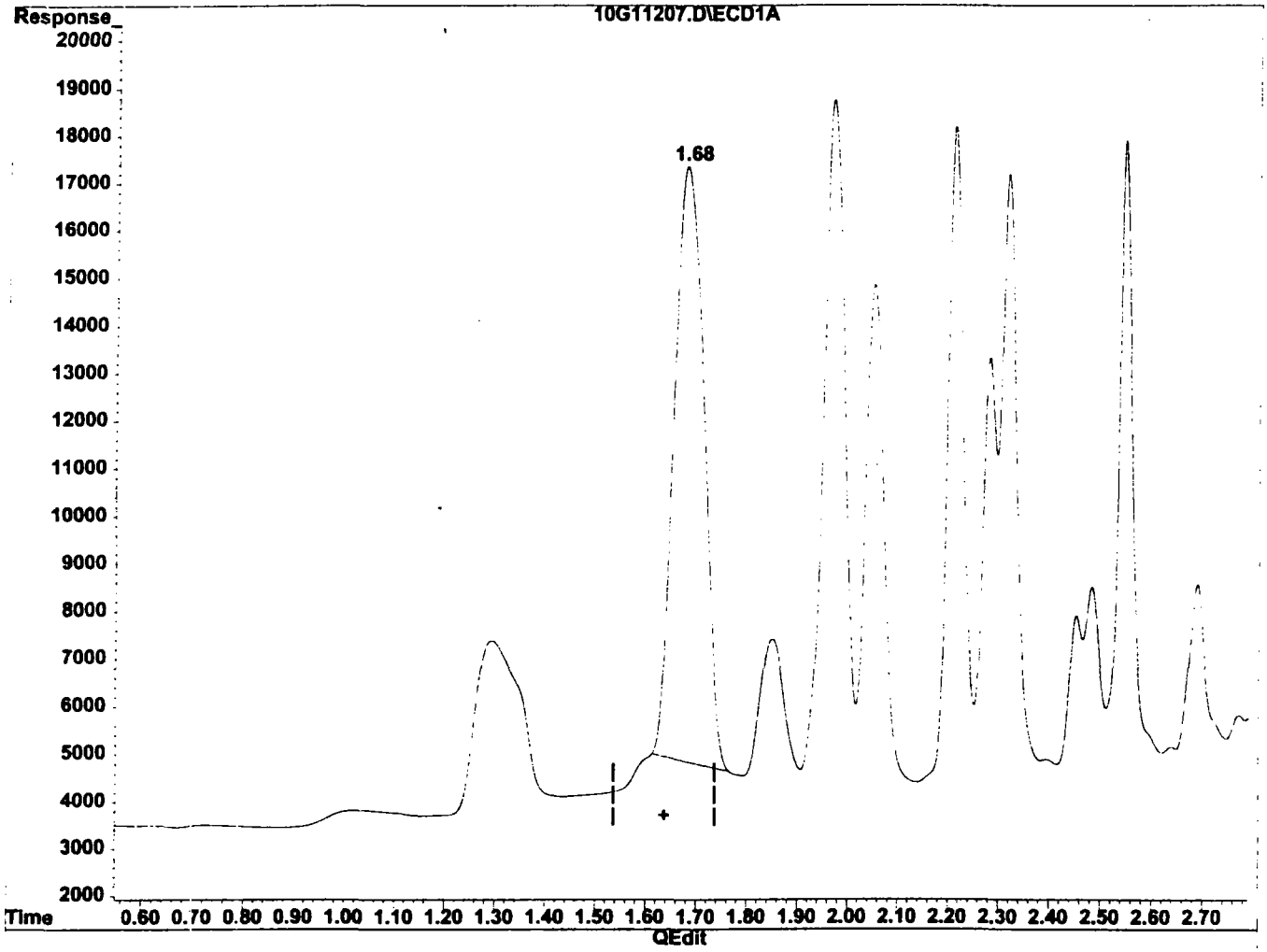
1.68min 42.292UG/L

response 562778

(+) = Expected Retention Time
10G11207.D 8082EZ.M Tue Oct 24 08:31:49 2000

Data File : C:\HPCHEM\2\DATA\102000\10G11207.D Vial: 4
Acq On : 20 Oct 2000 14:27 Operator: SMW
Sample : L0010410-01 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration



(1) TETRACHLORO-M-XYL (S)

1.68min 38.592UG/L m

response 513548

SMW 10-24-00

MV 10/24/00

(+) = Expected Retention Time
10G11207.D 8082EZ.M Tue Oct 24 08:31:57 2000

```
Data File : C:\HPCHEM\2\DATA\102000\10G11207.D          Vial: 4
Acq On    : 20 Oct 2000  14:27                       Operator: SMW
Sample    : L0010410-01                              Inst    : HP10
Misc      : WATER                                    Multiplr: 0.01
IntFile   : AUTOINT1.E
Quant Time: Oct 24  8:33 2000  Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title        : PCB
Last Update  : Mon Oct 23 13:35:02 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj.  :
Signal Phase :
Signal Info  :
```

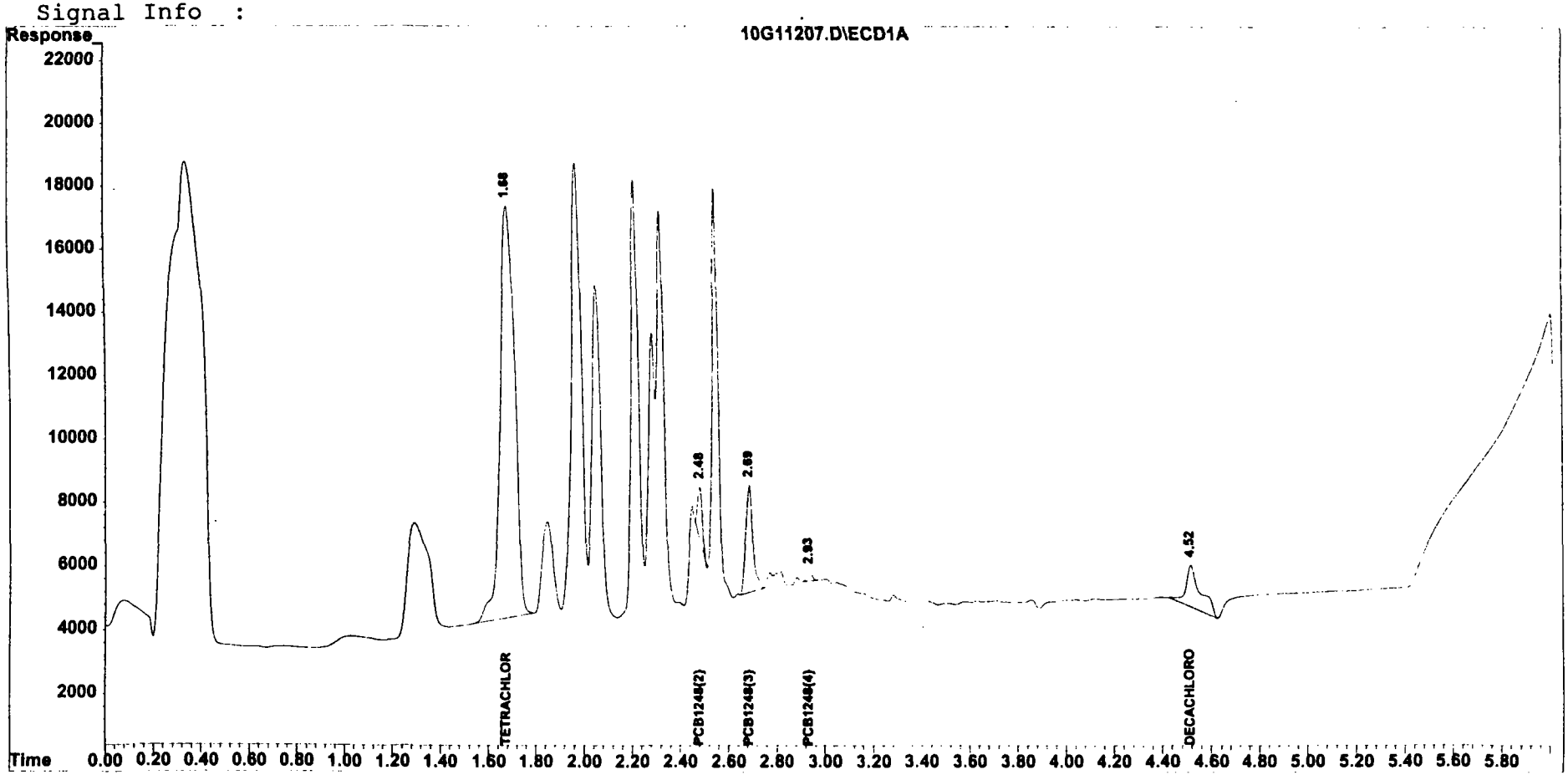
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.68	563704	45.685 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	228.43%#
7) S DECACHLOROBIPHENYL	4.52	56033	24.683 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	123.42%
Target Compounds			
2) L1 PCB1248{1}	0.00	0	N.D. UG/L d
3) L1 PCB1248{2}	2.48	21354	0.447 UG/L
4) L1 PCB1248{3}	2.69f	70404	1.226 UG/L
5) L1 PCB1248{4}	2.94	4452	0.096 UG/L
6) L1 PCB1248{5}	0.00	0	N.D. UG/L
Sum PCB1248		96210	1.769 UG/L
Average PCB1248			0.590 UG/L

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11207.D Vial: 4
Acq On : 20 Oct 2000 14:27 Operator: SMW
Sample : L0010410-01 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 24 8:33 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



32

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102400\7G9329.D Vial: 2
Acq On : 24 Oct 2000 13:01 Operator: SMW
Sample : L0010410-01 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Oct 25 6:11 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.23	108636	12.565 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.83%
12) S DECACHLOROBIPHENYL	10.97	386062	34.244 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	171.22%#
Target Compounds			
2) L1 PCB1016{1}	4.44	372862	16.793 UG/L
3) L1 PCB1016{2}	5.23f	205737	4.905 UG/L
L1 PCB1016{3}	5.92	68200	0.737 UG/L
L1 PCB1016{4}	6.12	12479	0.331 UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		659278	22.766 UG/L
Average PCB1016			5.691 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	10.37	426143	13.268 UG/L
Sum PCB1260		426143	13.268 UG/L
Average PCB1260			13.268 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

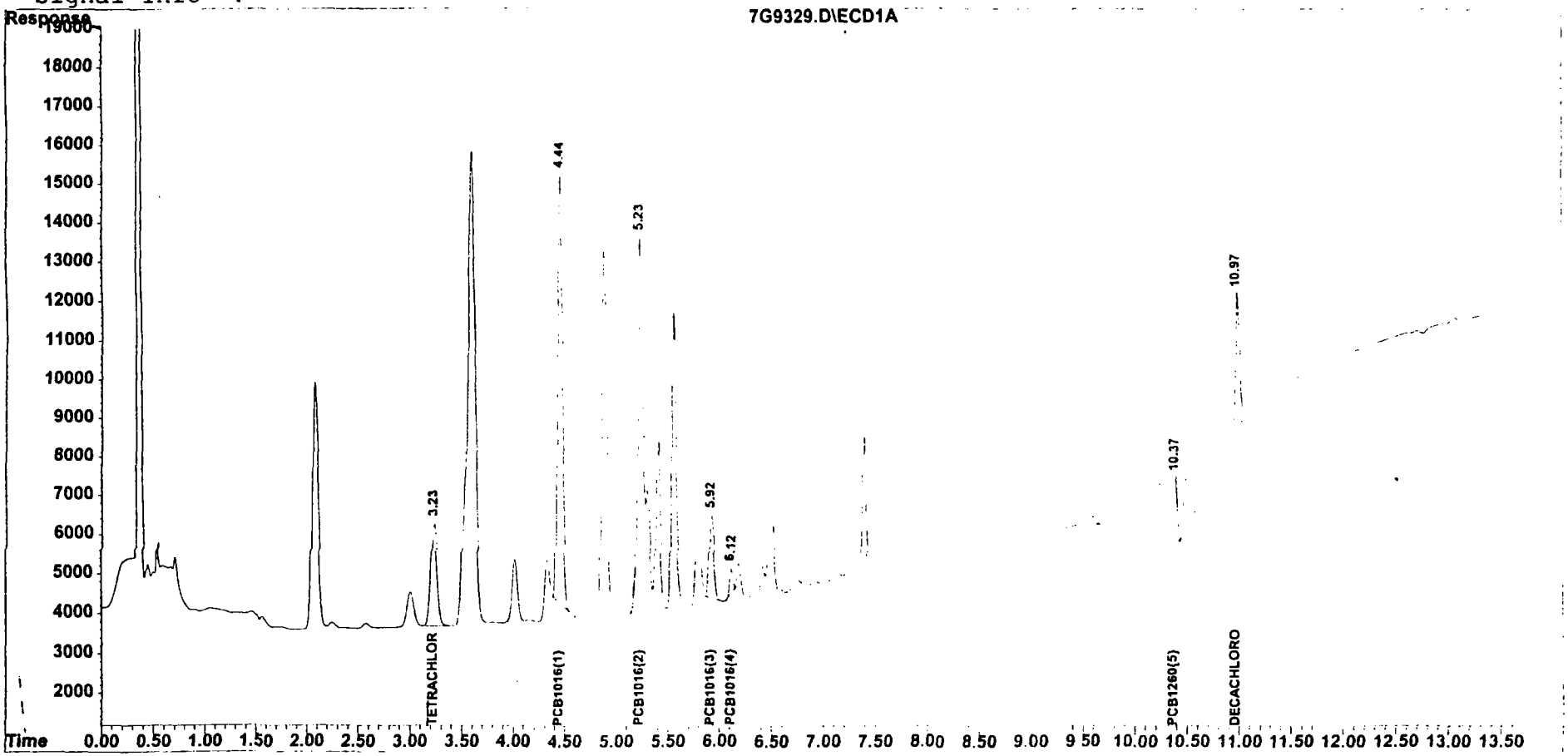
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102400\7G9329.D
Acq On : 24 Oct 2000 13:01
Sample : L0010410-01
Misc : WATER
IntFile : EVENTS.E
Quant Time: Oct 25 6:11 2000 Quant Results File: 8082F.RES

Vial: 2
Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\102400\7G9329.D Vial: 2
Acq On : 24 Oct 2000 13:01 Operator: SMW
Sample : L0010410-01 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 25 6:22 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 25 06:22:26 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.23f	108636	13.120 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	65.60%
7) S DECACHLOROBIPHENYL	10.97	386062	40.522 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	202.61%#
Target Compounds			
2) L1 PCB1248{1}	5.92	68200	1.197 UG/L
3) L1 PCB1248{2}	6.19	16796	0.538 UG/L
L1 PCB1248{3}	0.00	0	N.D. UG/L
L1 PCB1248{4}	7.38	88748	1.455 UG/L
6) L1 PCB1248{5}	0.00	0	N.D. UG/L
Sum PCB1248		173744	3.190 UG/L
Average PCB1248			1.063 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

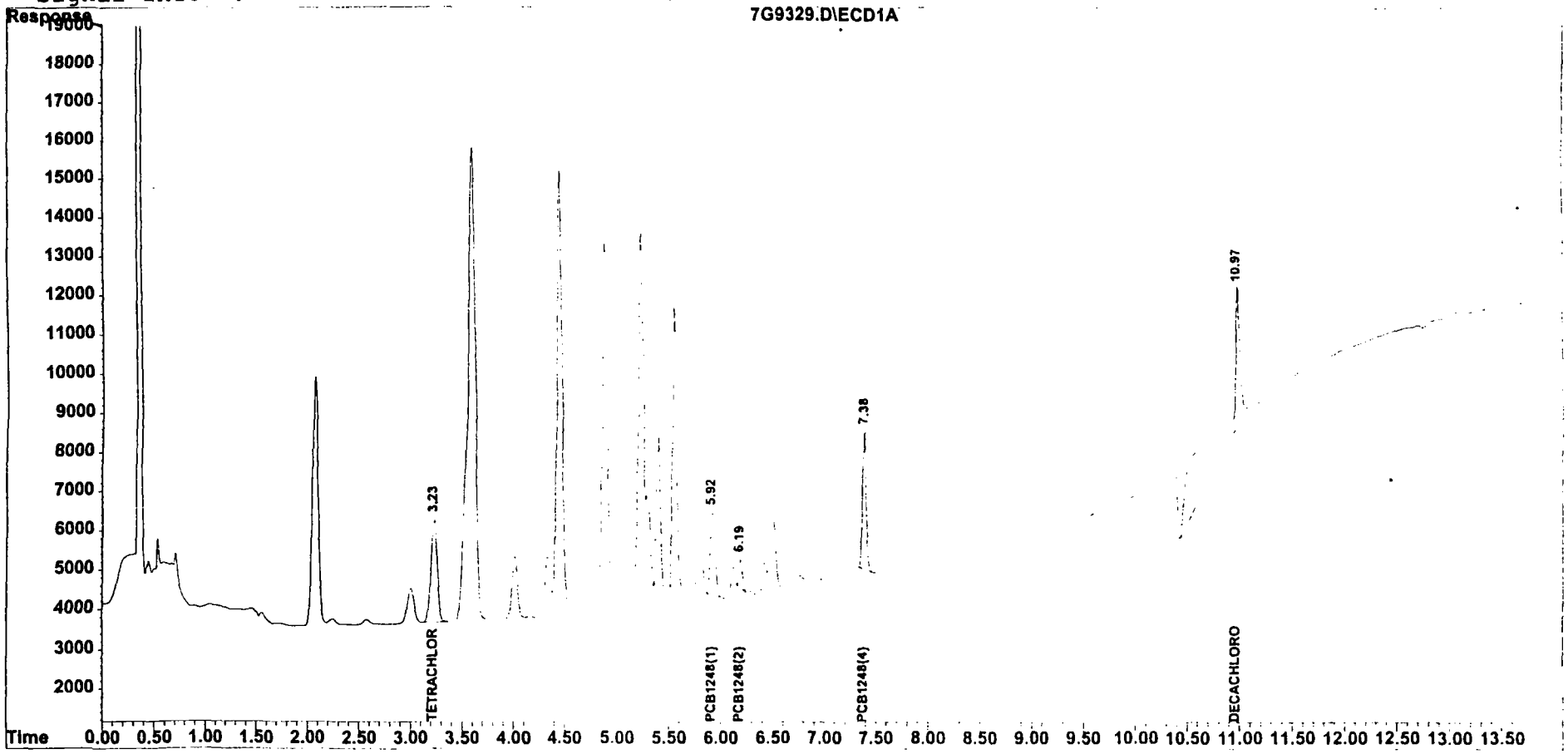
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102400\7G9329.D
Acq On : 24 Oct 2000 13:01
Sample : L0010410-01
Misc : WATER
IntFile : AUTOINT1.E
Quant Time: Oct 25 6:22 2000 Quant Results File: 1248SF.RES

Vial: 2
Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 25 06:22:26 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11208.D Vial: 5
Acq On : 20 Oct 2000 14:35 Operator: SMW
Sample : L0010410-02 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	97626	7.336 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	36.68%
12) S DECACHLOROBIPHENYL	4.51	16229	6.092 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	30.46%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	2504	0.118 UG/L
Sum PCB1016		2504	0.118 UG/L
Average PCB1016			0.118 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

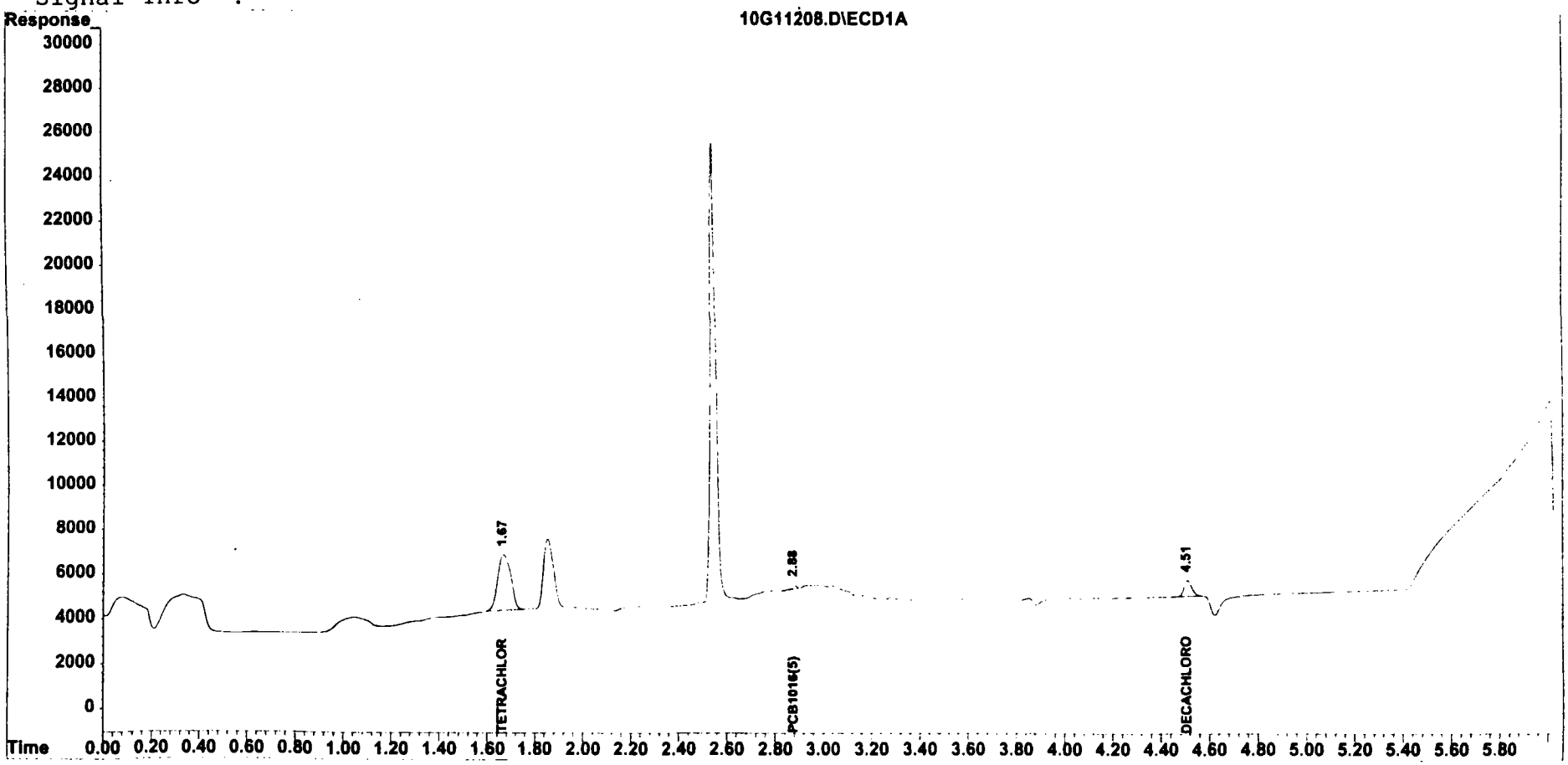
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11208.D Vial: 5
Acq On : 20 Oct 2000 14:35 Operator: SMW
Sample : L0010410-02 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11211.D Vial: 8
Acq On : 20 Oct 2000 14:59 Operator: SMW
Sample : L0010410-03 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	102708	7.718 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	38.59%
12) S DECACHLOROBIPHENYL	4.51	17551	6.588 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	32.94%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		0	N.D. UG/L
Average PCB1016			0.000 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

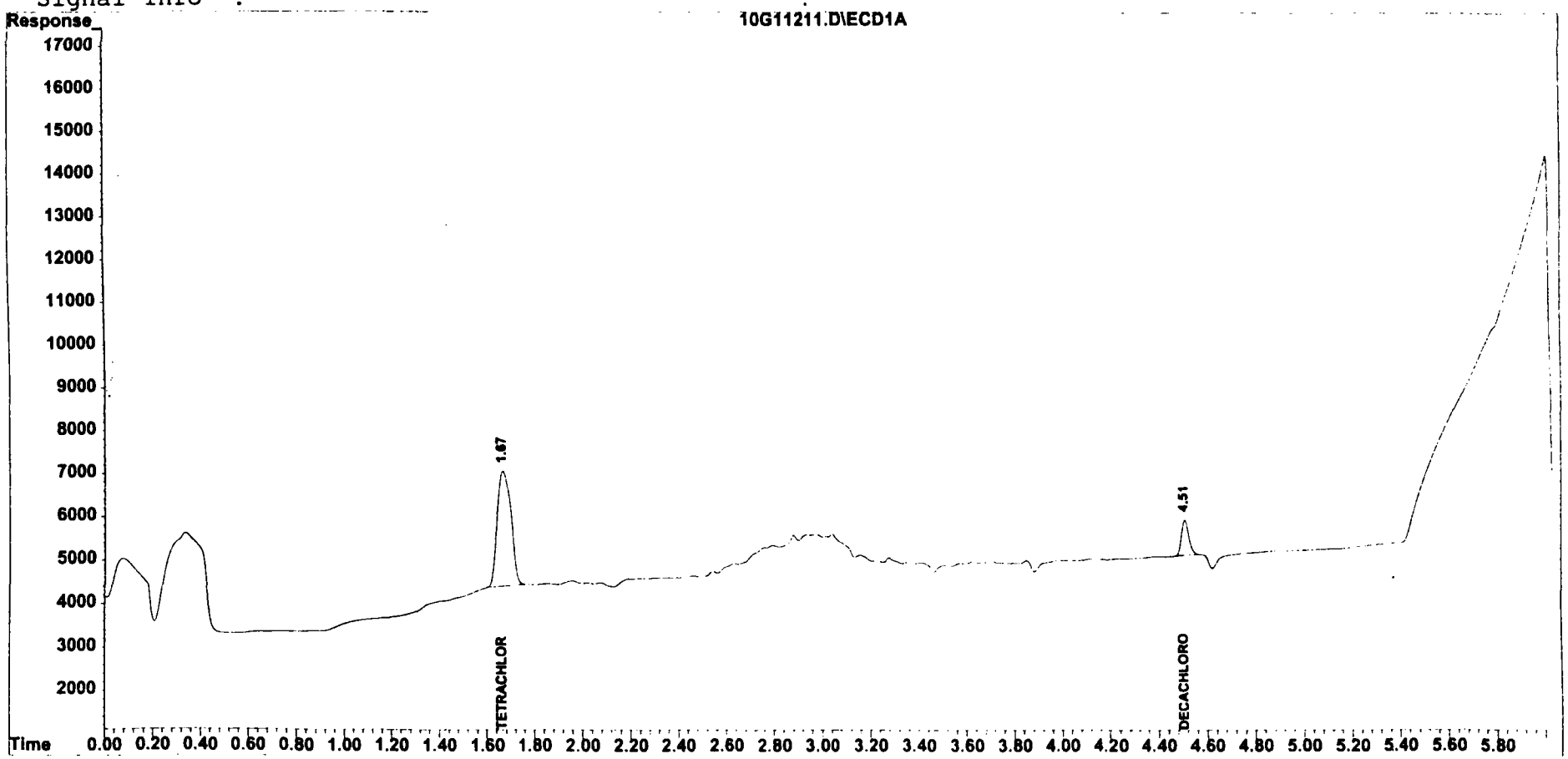
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11211.D Vial: 8
Acq On : 20 Oct 2000 14:59 Operator: SMW
Sample : L0010410-03 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11212.D Vial: 9
Acq On : 20 Oct 2000 15:06 Operator: SMW
Sample : L0010410-04 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	108860	8.181 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	40.90%
12) S DECACHLOROBIPHENYL	4.51	15479	5.810 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	29.05%
Target Compounds			
2) L1 PCB1016{1}	2.21	7809	0.180 UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	2340	0.110 UG/L
Sum PCB1016		10150	0.291 UG/L
Average PCB1016			0.145 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

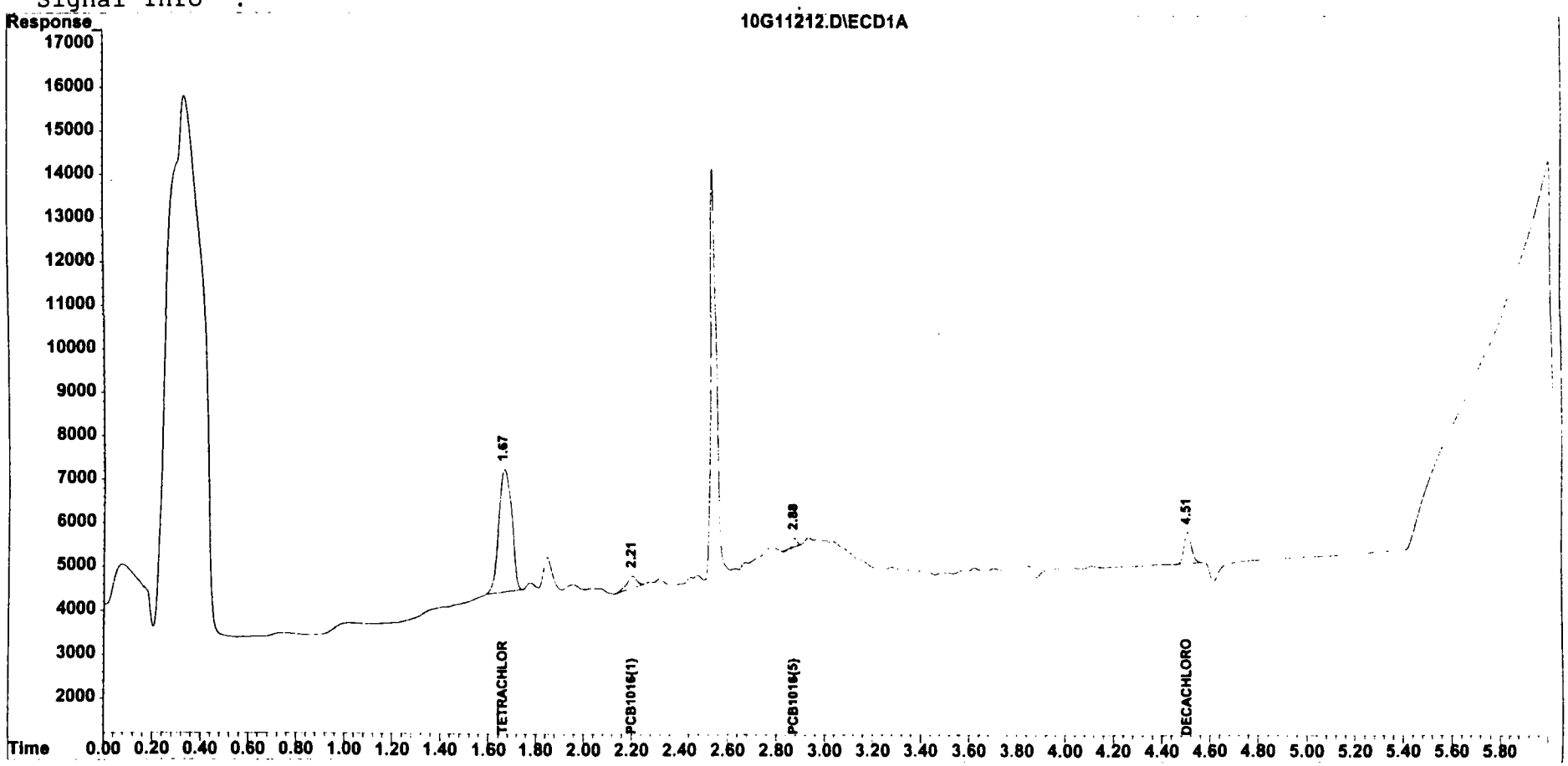
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11212.D Vial: 9
Acq On : 20 Oct 2000 15:06 Operator: SMW
Sample : L0010410-04 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



42

Data File : C:\HPCHEM\2\DATA\102000\10G11213.D Vial: 10
Acq On : 20 Oct 2000 15:14 Operator: SMW
Sample : L0010410-05 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	157776	11.857 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	59.29%
12) S DECACHLOROBIPHENYL	4.51	57444	21.562 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	107.81%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	11845	0.557 UG/L
Sum PCB1016		11845	0.557 UG/L
Average PCB1016			0.557 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

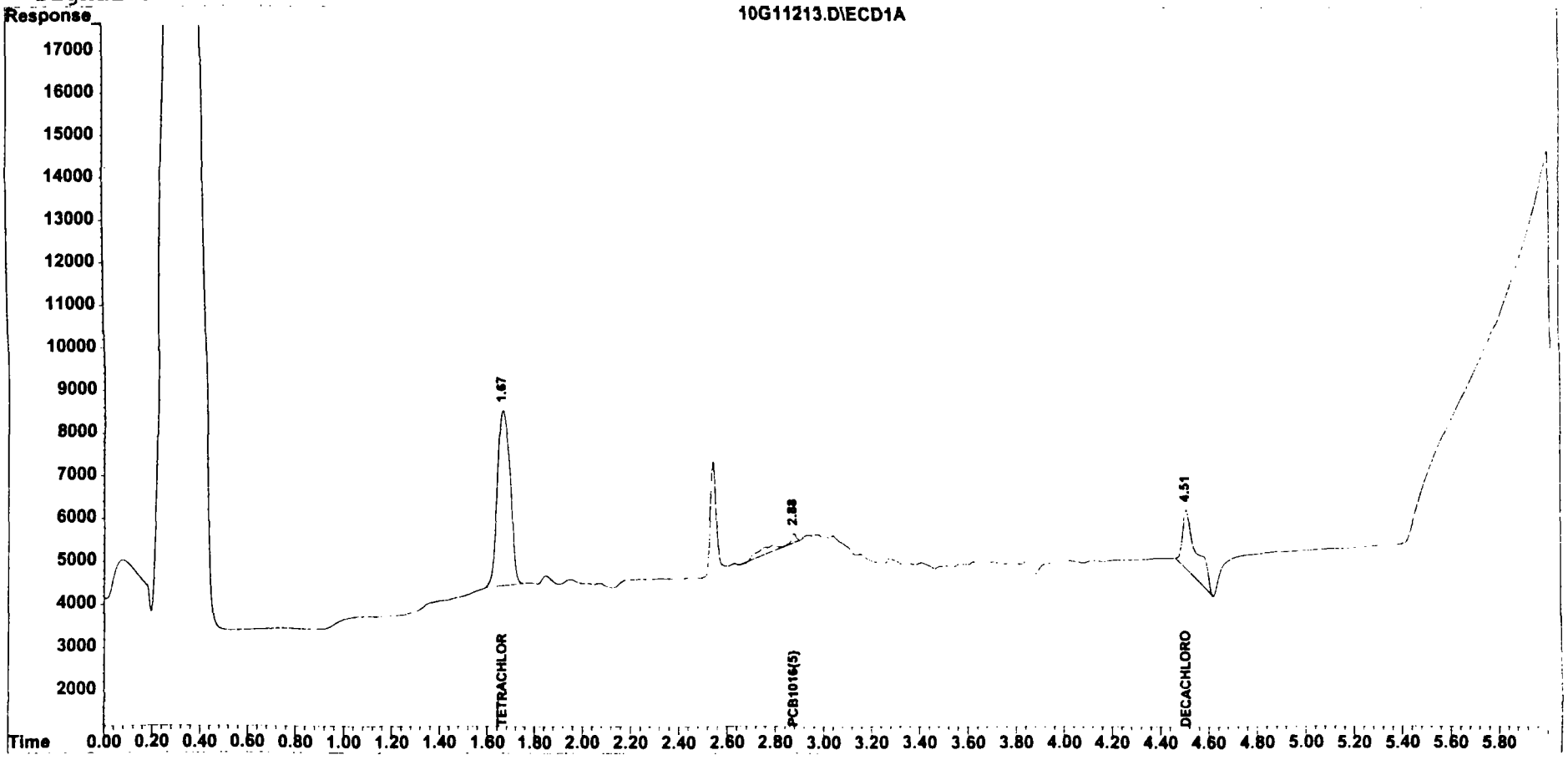
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantification Report

Data File : C:\HPCHEM\2\DATA\102000\10G11213.D Vial: 10
Acq On : 20 Oct 2000 15:14 Operator: SMW
Sample : L0010410-05 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11214.D Vial: 11
Acq On : 20 Oct 2000 15:22 Operator: SMW
Sample : L0010410-06 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

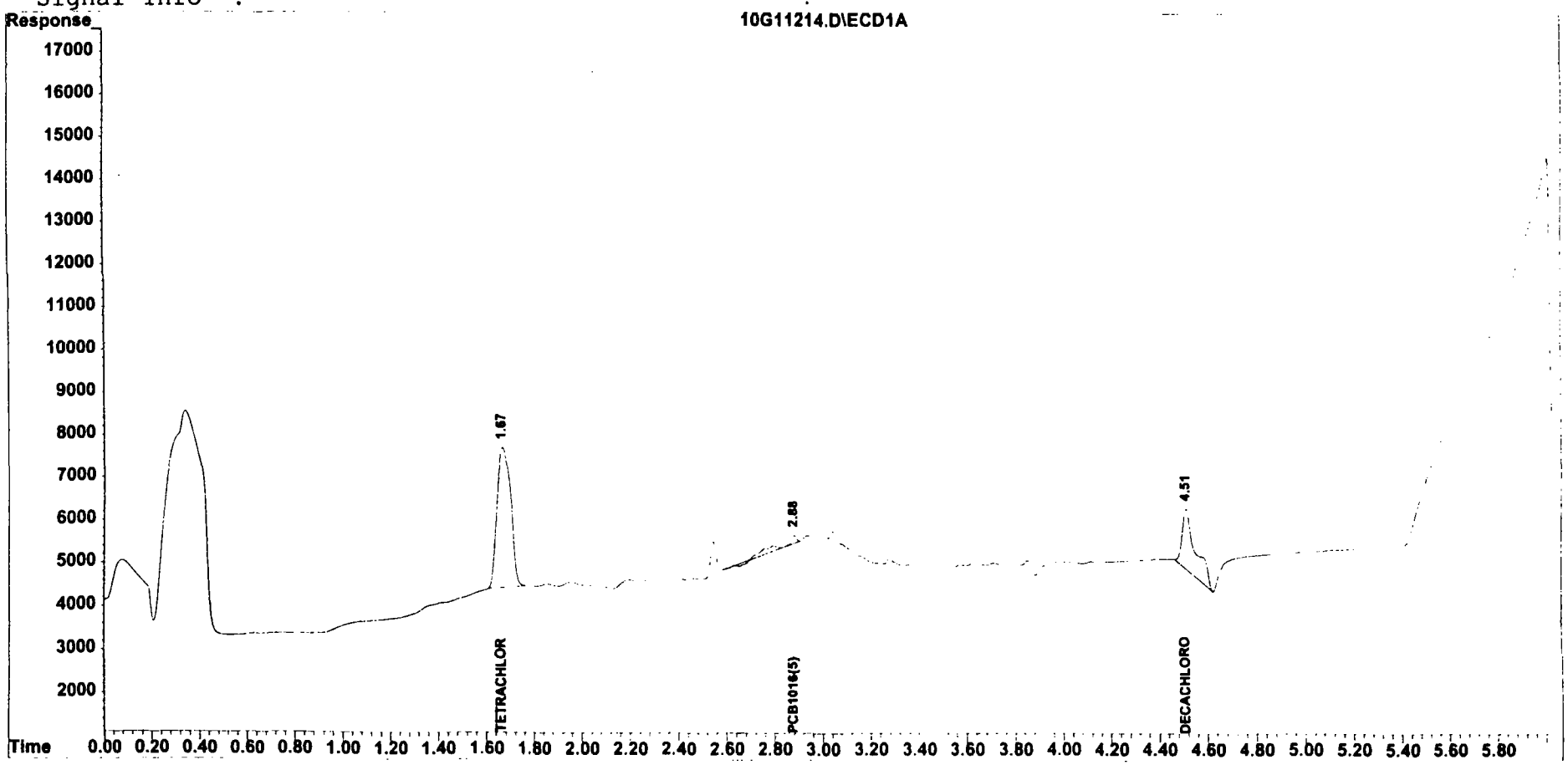
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	125135	9.404 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	47.02%
12) S DECACHLOROBIPHENYL	4.51	55279	20.750 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	103.75%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	8470	0.398 UG/L
Sum PCB1016		8470	0.398 UG/L
Average PCB1016			0.398 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11214.D Vial: 11
Acq On : 20 Oct 2000 15:22 Operator: SMW
Sample : L0010410-06 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11216.D Vial: 13
Acq On : 20 Oct 2000 15:38 Operator: SMW
Sample : L0010410-07 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

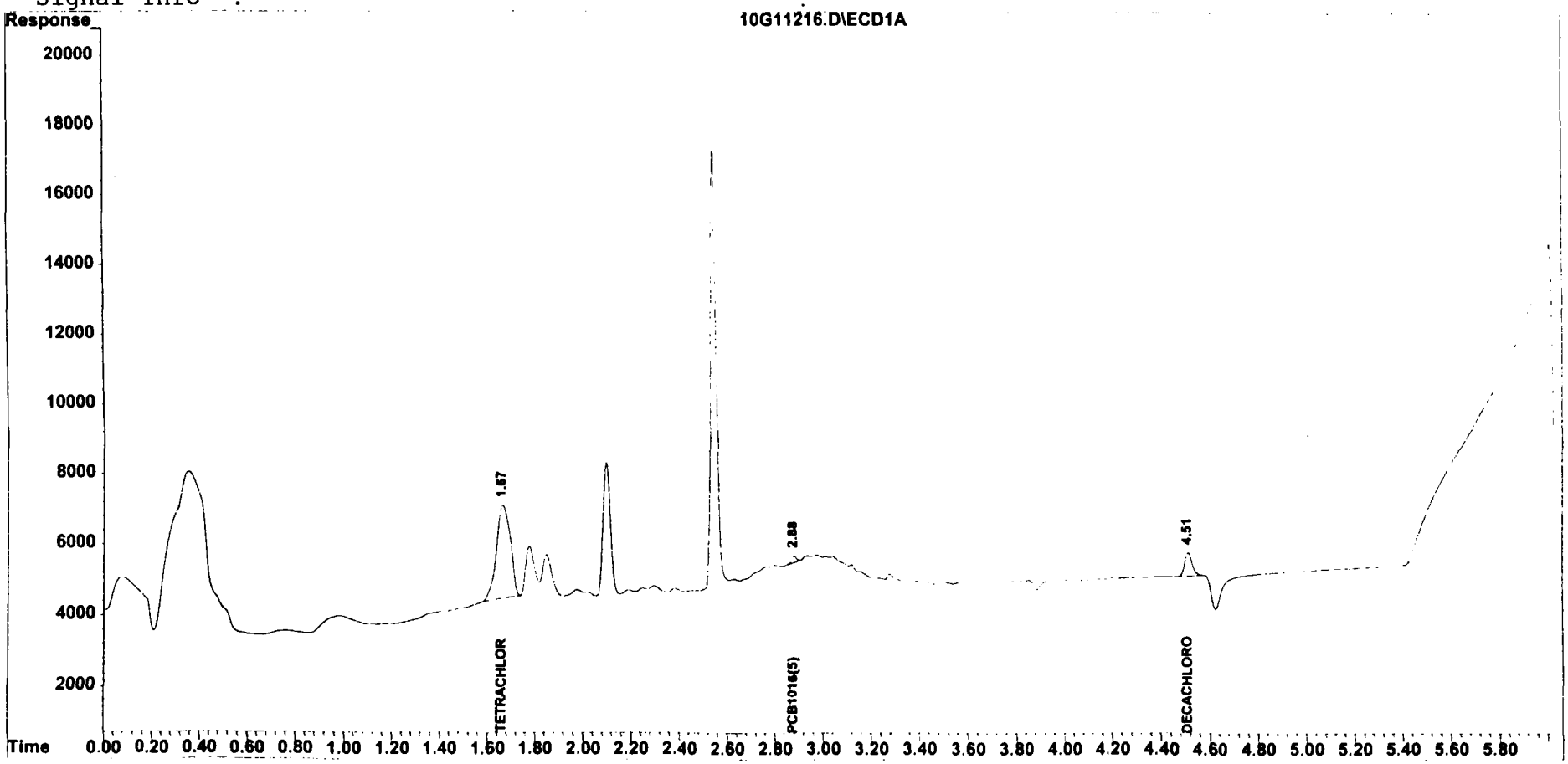
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	105725	7.945 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	39.73%
12) S DECACHLOROBIPHENYL	4.51	14266	5.355 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	26.78%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	2629	0.124 UG/L
Sum PCB1016		2629	0.124 UG/L
Average PCB1016			0.124 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11216.D Vial: 13
Acq On : 20 Oct 2000 15:38 Operator: SMW
Sample : L0010410-07 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



48

Data File : C:\HPCHEM\2\DATA\102000\10G11217.D Vial: 14
Acq On : 20 Oct 2000 15:46 Operator: SMW
Sample : L0010410-08 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.66	122648	9.217 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	46.09%
12) S DECACHLOROBIPHENYL	4.51	62773	23.563 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	117.82%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	2.49	4175	0.050 UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		4175	0.050 UG/L
Average PCB1016			0.050 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

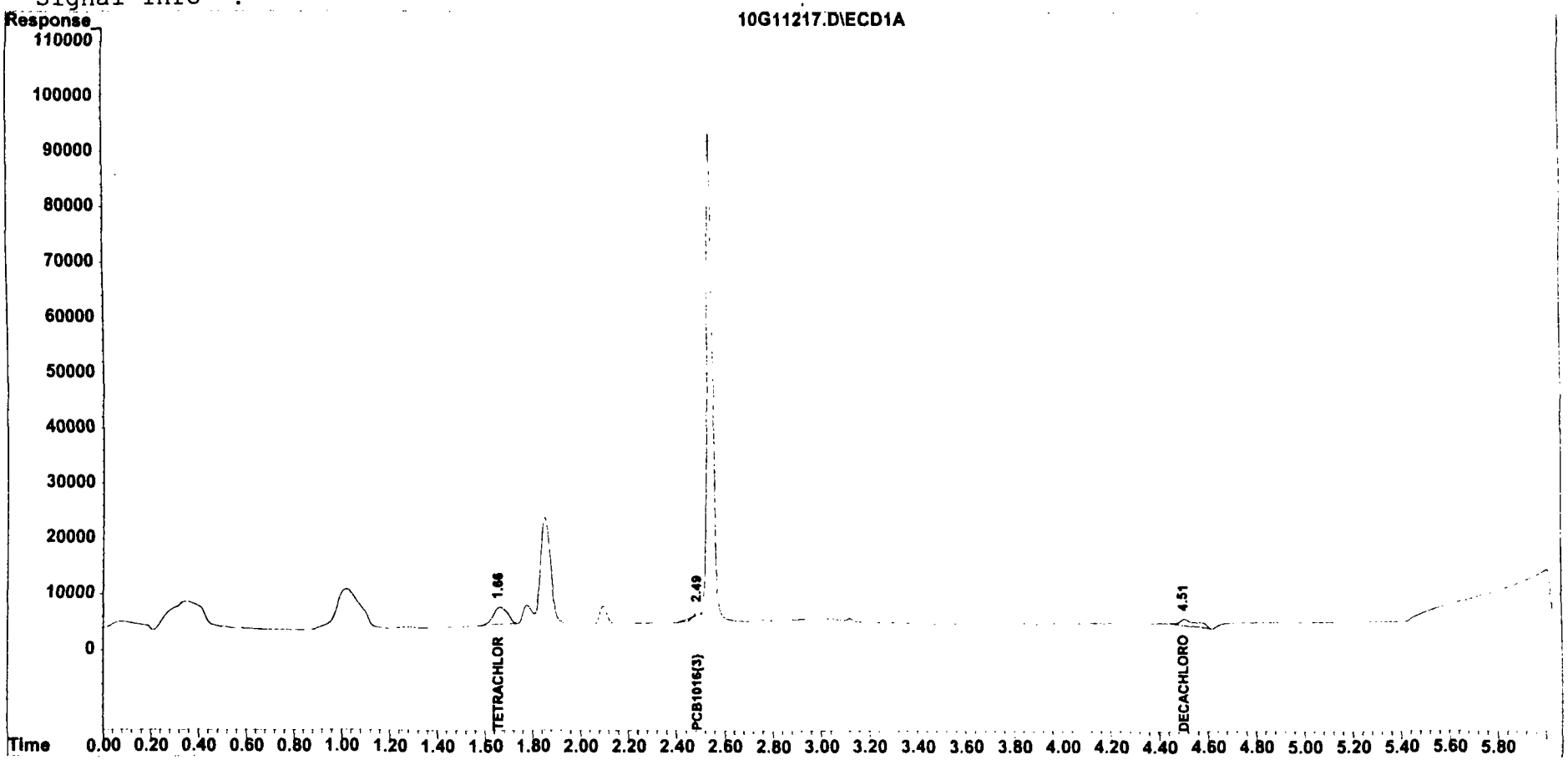
(f)=RT Delta > 1/2 Window (m)=manual int.
10G11217.D 8082EZ.M Mon Oct 23 08:36:56 2000

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11217.D Vial: 14
Acq On : 20 Oct 2000 15:46 Operator: SMW
Sample : L0010410-08 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11218.D Vial: 15
Acq On : 20 Oct 2000 15:53 Operator: SMW
Sample : L0010410-09 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.66	110799	8.326 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	41.63%
12) S DECACHLOROBIPHENYL	4.51	45415	17.047 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	85.24%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	2138	0.100 UG/L
Sum PCB1016		2138	0.100 UG/L
Average PCB1016			0.100 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

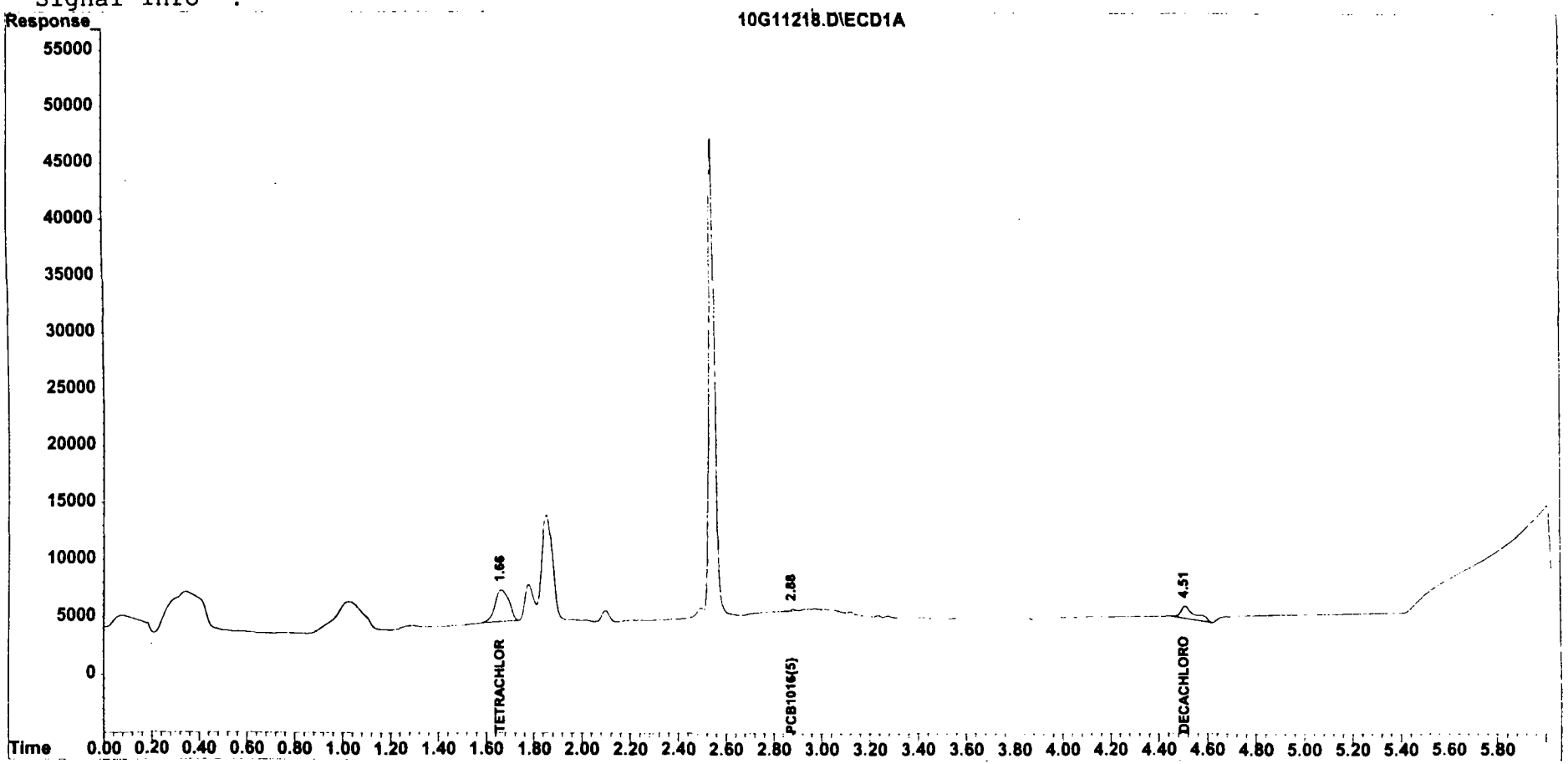
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11218.D Vial: 15
Acq On : 20 Oct 2000 15:53 Operator: SMW
Sample : L0010410-09 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11219.D Vial: 16
Acq On : 20 Oct 2000 16:01 Operator: SMW
Sample : L0010410-10 DUP Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 24 8:39 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	462229	34.736 UG/L m
Spiked Amount 20.000 Range 13 - 154		Recovery =	173.68%#
12) S DECACHLOROBIPHENYL	4.51	59888	22.480 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	112.40%
Target Compounds			
2) L1 PCB1016{1}	2.21	224345	5.185 UG/L
3) L1 PCB1016{2}	2.31	78511	3.009 UG/L
4) L1 PCB1016{3}	2.48	21671	0.260 UG/L
5) L1 PCB1016{4}	2.68	61955	1.259 UG/L
6) L1 PCB1016{5}	2.88	1760	0.083 UG/L
Sum PCB1016		388242	9.797 UG/L
Average PCB1016			1.959 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

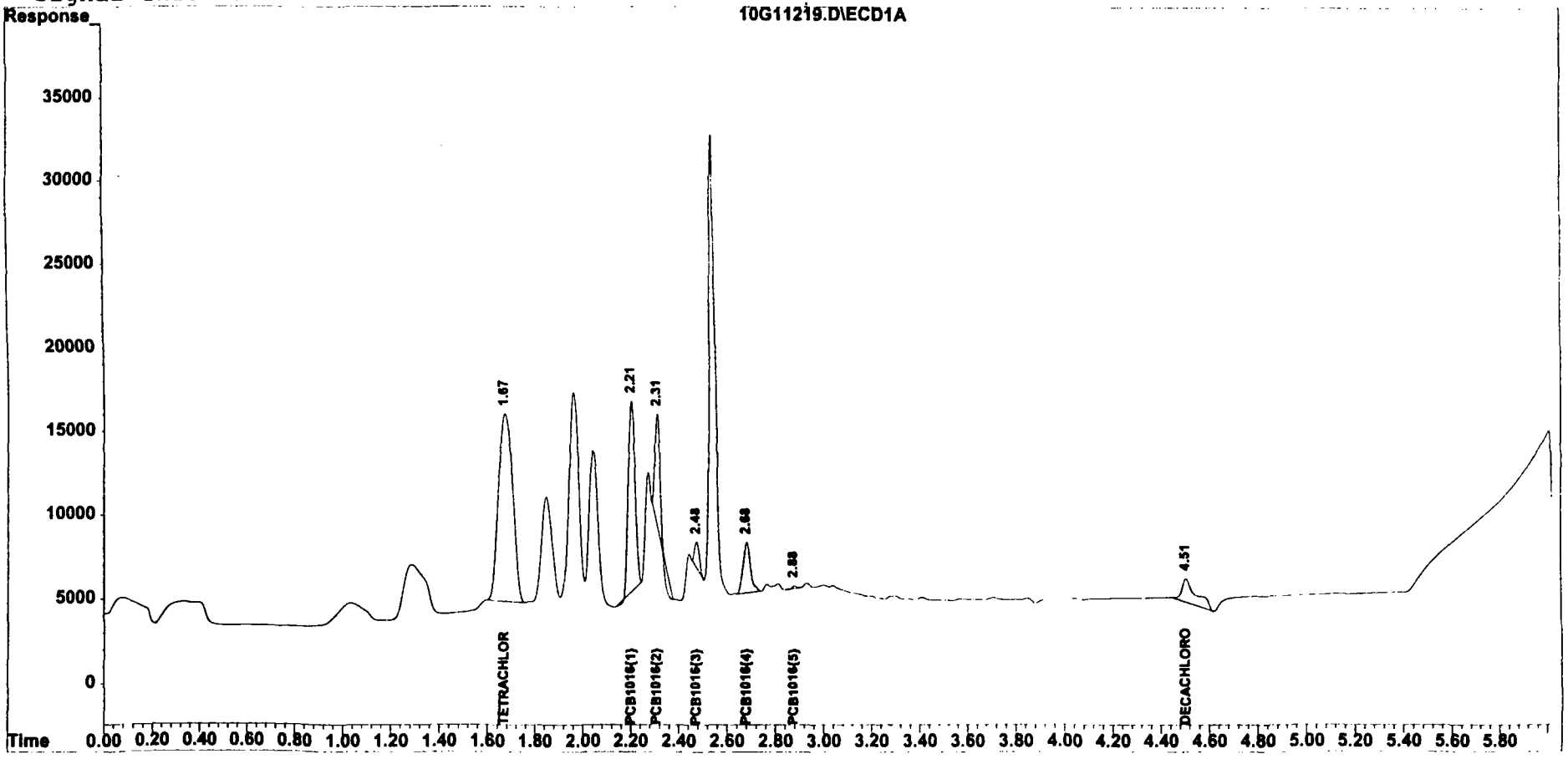
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11219.D Vial: 16
Acq On : 20 Oct 2000 16:01 Operator: SMW
Sample : L0010410-10 DUP Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 24 8:39 2000 Quant Results File: 8082EZ.RES

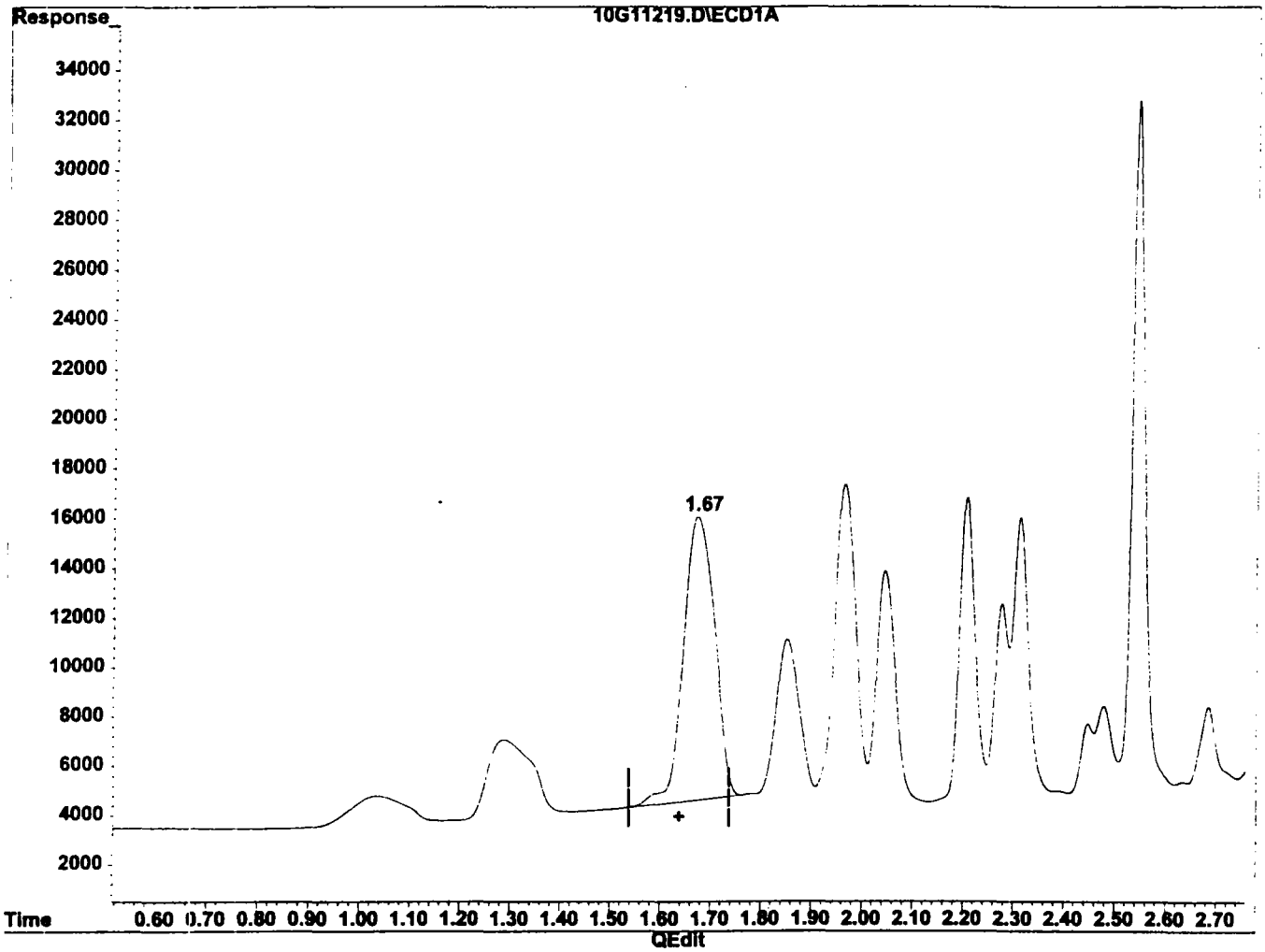
Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11219.D Vial: 16
Acq On : 20 Oct 2000 16:01 Operator: SMW
Sample : L0010410-10 DUP Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:37 2000 Quant Results File: 8082EZ.RES

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration



(1) TETRACHLORO-M-XYL (S)

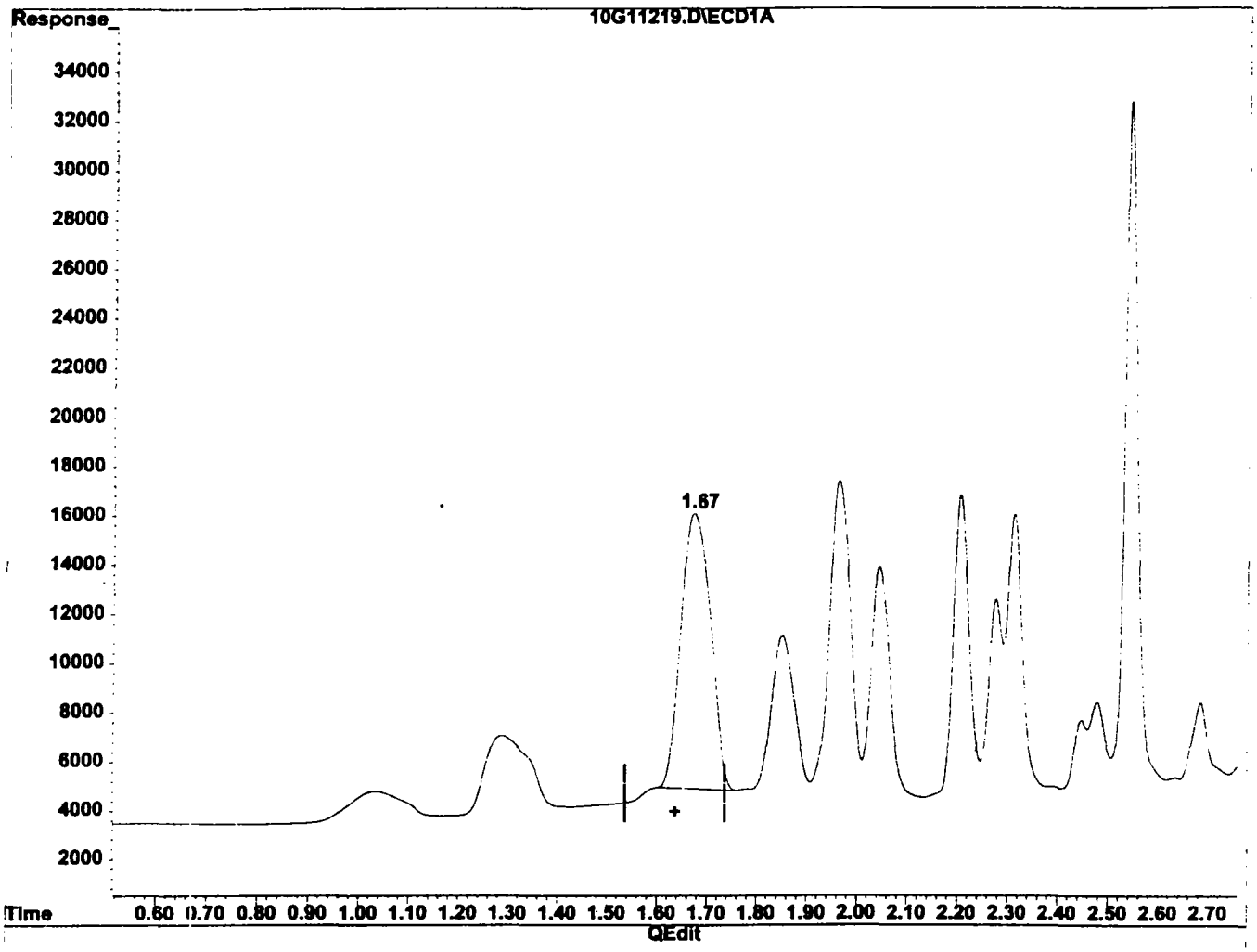
1.67min 37.071UG/L

response 493302

(+) = Expected Retention Time
10G11219.D 8082EZ.M Tue Oct 24 08:39:31 2000

Data File : C:\HPCHEM\2\DATA\102000\10G11219.D Vial: 16
Acq On : 20 Oct 2000 16:01 Operator: SMW
Sample : L0010410-10 DUP Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:37 2000 Quant Results File: 8082EZ.RES

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration



(1) TETRACHLORO-M-XYL (S)

1.67min 34.736UG/L m

response 462229

SMW 10-24-00

AV 10/24/00

(-) = Expected Retention Time
10G11219.D 8082EZ.M Tue Oct 24 08:39:40 2000

Data File : C:\HPCHEM\2\DATA\102000\10G11219.D Vial: 16
Acq On : 20 Oct 2000 16:01 Operator: SMW
Sample : L0010410-10 DUP Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 24 8:39 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	488904	39.623 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	198.12%#
7) S DECACHLOROBIPHENYL	4.51	132986	58.580 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	292.90%#
Target Compounds			
2) L1 PCB1248{1}	0.00	0	N.D. UG/L d
3) L1 PCB1248{2}	2.48	21671	0.453 UG/L
4) L1 PCB1248{3}	2.68	61955	1.079 UG/L
5) L1 PCB1248{4}	2.93	3743	0.081 UG/L
6) L1 PCB1248{5}	3.04f	3286	0.069 UG/L
Sum PCB1248		90655	1.682 UG/L
Average PCB1248			0.421 UG/L

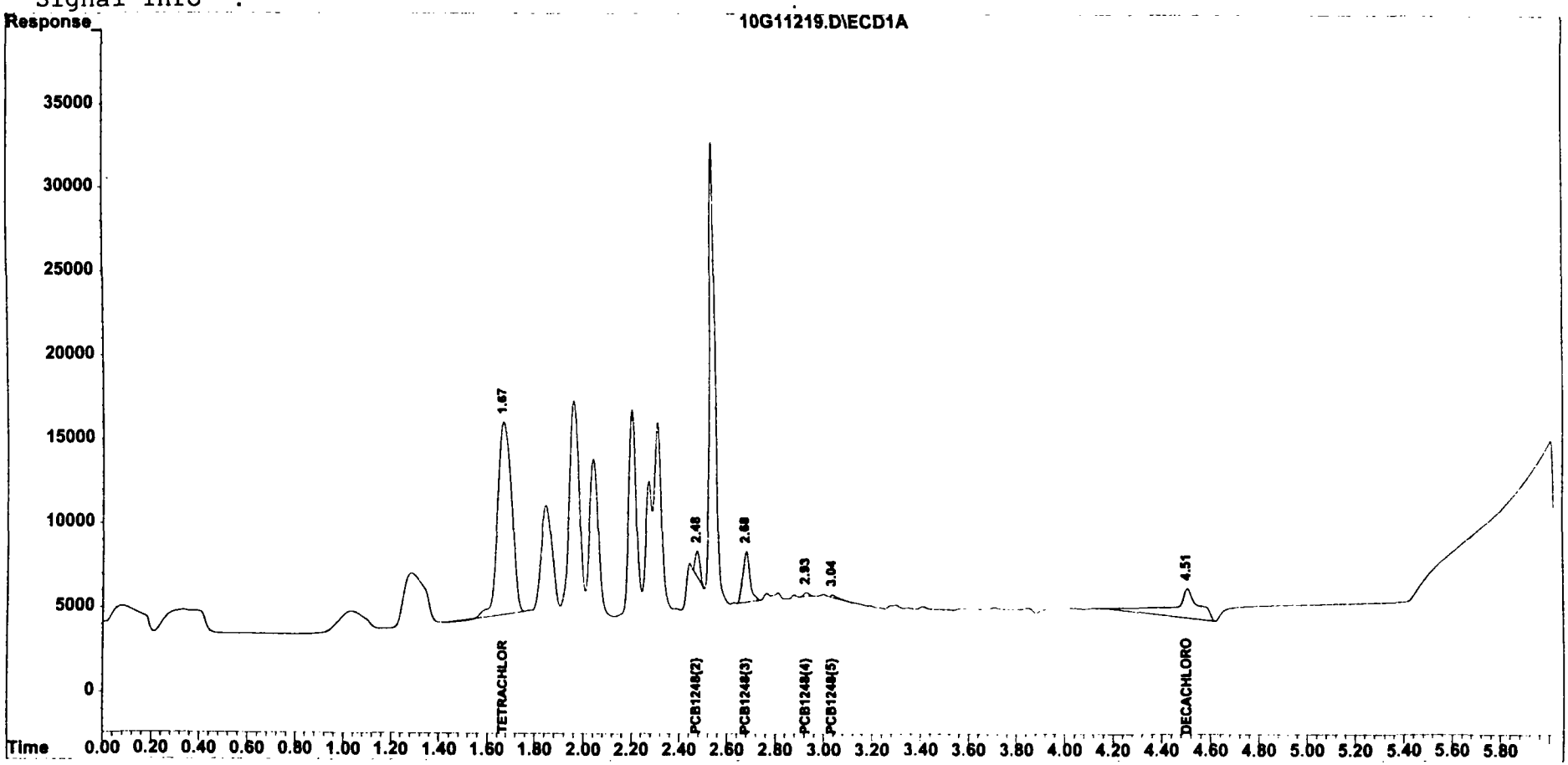
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11219.D Vial: 16
Acq On : 20 Oct 2000 16:01 Operator: SMW
Sample : L0010410-10 DUP Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 24 8:39 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102400\7G9330.D Vial: 3
Acq On : 24 Oct 2000 13:20 Operator: SMW
Sample : L0010410-10 DUP Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Oct 25 6:11 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	101084	11.691 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	58.46%
12) S DECACHLOROBIPHENYL	10.96	372924	33.078 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	165.39%#
Target Compounds			
2) L1 PCB1016{1}	4.43	371250	16.720 UG/L
3) L1 PCB1016{2}	5.21	193314	4.609 UG/L
4) L1 PCB1016{3}	5.91	63159	0.682 UG/L
5) L1 PCB1016{4}	6.11	11101	0.295 UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		638823	22.306 UG/L
Average PCB1016			5.577 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	10.36	501431	15.612 UG/L
Sum PCB1260		501431	15.612 UG/L
Average PCB1260			15.612 UG/L

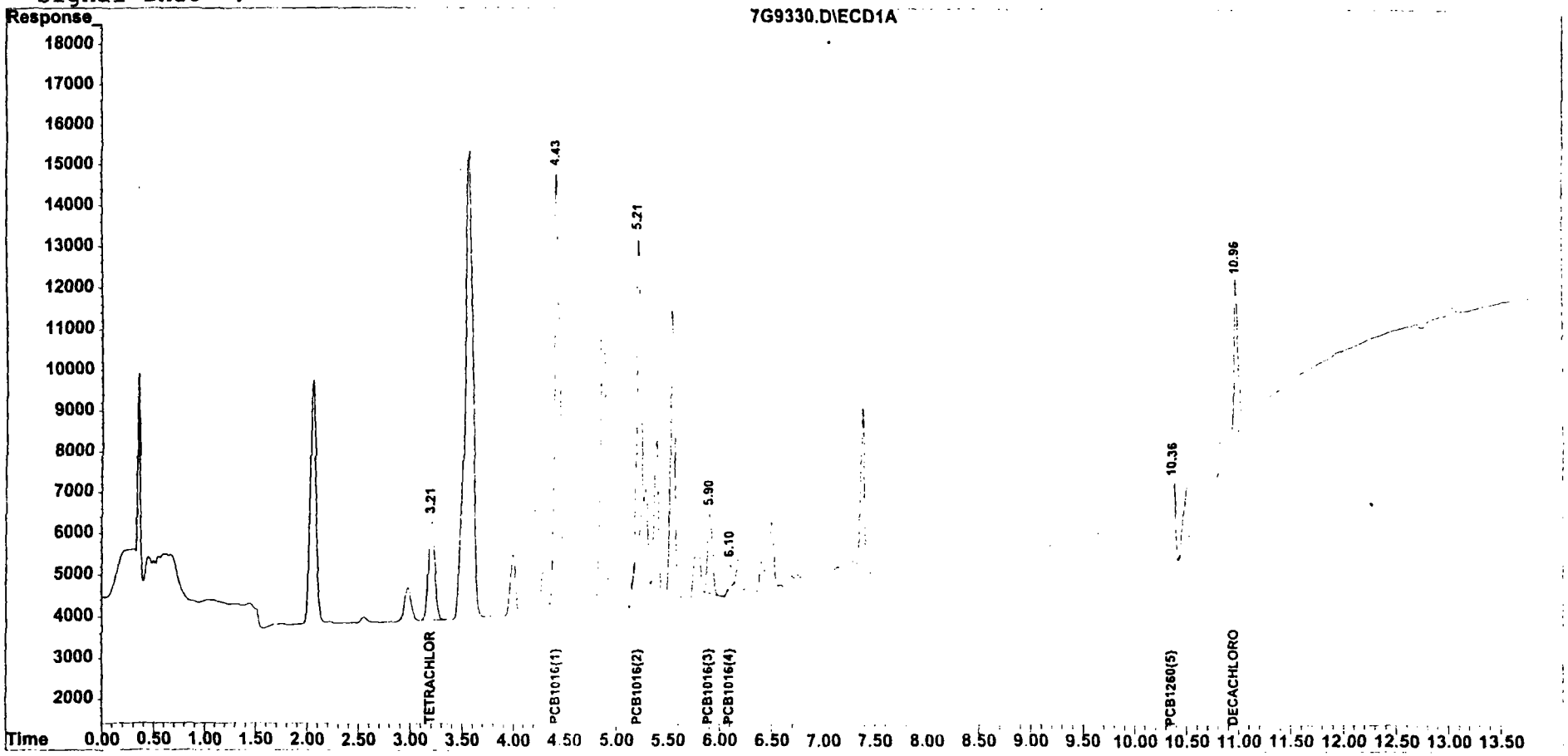
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9330.D 8082F.M Wed Oct 25 06:11:10 2000 Page 1

Data File : C:\HPCHEM\1\DATA\102400\7G9330.D
Acq On : 24 Oct 2000 13:20
Sample : L0010410-10 DUP
Misc : WATER
IntFile : EVENTS.E
Quant Time: Oct 25 6:11 2000 Quant Results File: 8082F.RES

Vial: 3
Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\102400\7G9330.D Vial: 3
Acq On : 24 Oct 2000 13:20 Operator: SMW
Sample : L0010410-10 DUP Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 25 6:23 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 25 06:22:26 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

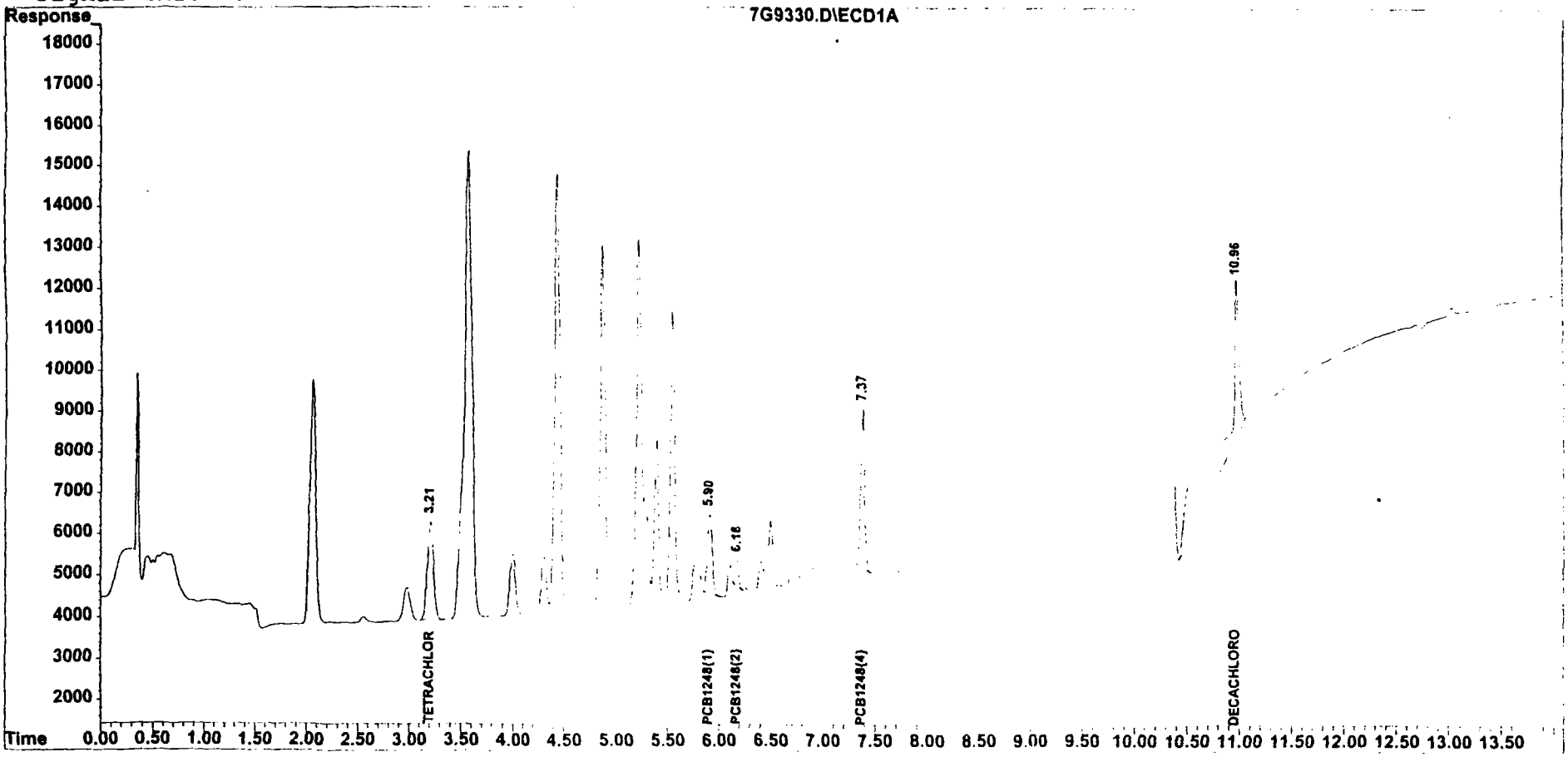
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	101084	12.208 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	61.04%
7) S DECACHLOROBIPHENYL	10.96	372924	39.143 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	195.72%#
Target Compounds			
2) L1 PCB1248{1}	5.91	63159	1.108 UG/L
3) L1 PCB1248{2}	6.18	15098	0.484 UG/L
L1 PCB1248{3}	0.00	0	N.D. UG/L
L1 PCB1248{4}	7.37	98600	1.617 UG/L
6) L1 PCB1248{5}	0.00	0	N.D. UG/L
Sum PCB1248		176857	3.209 UG/L
Average PCB1248			1.070 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\102400\7G9330.D Vial: 3
Acq On : 24 Oct 2000 13:20 Operator: SMW
Sample : L0010410-10 DUP Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 25 6:23 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 25 06:22:26 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.3 Standards Data

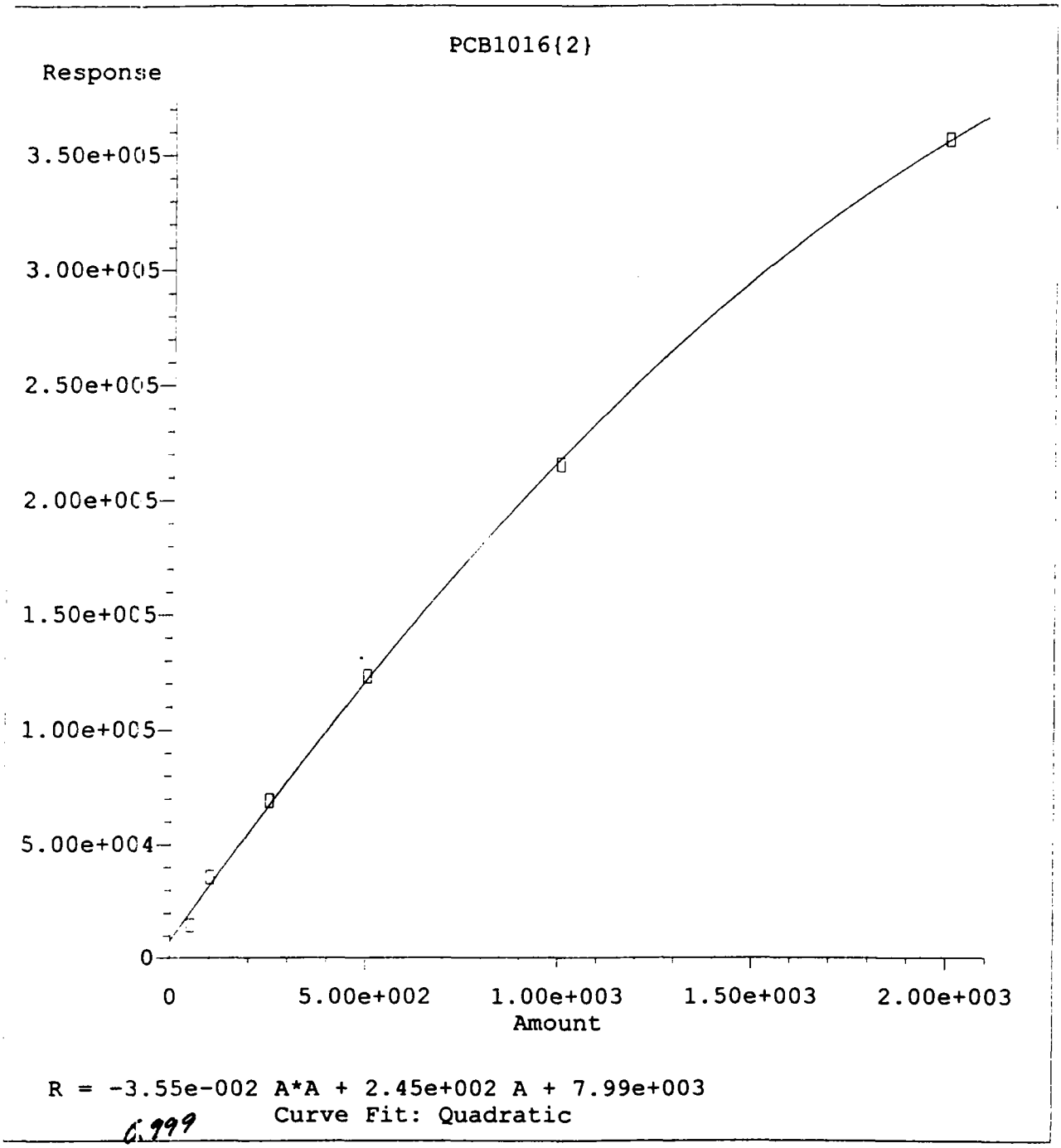
Response Factor Report HP10

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000

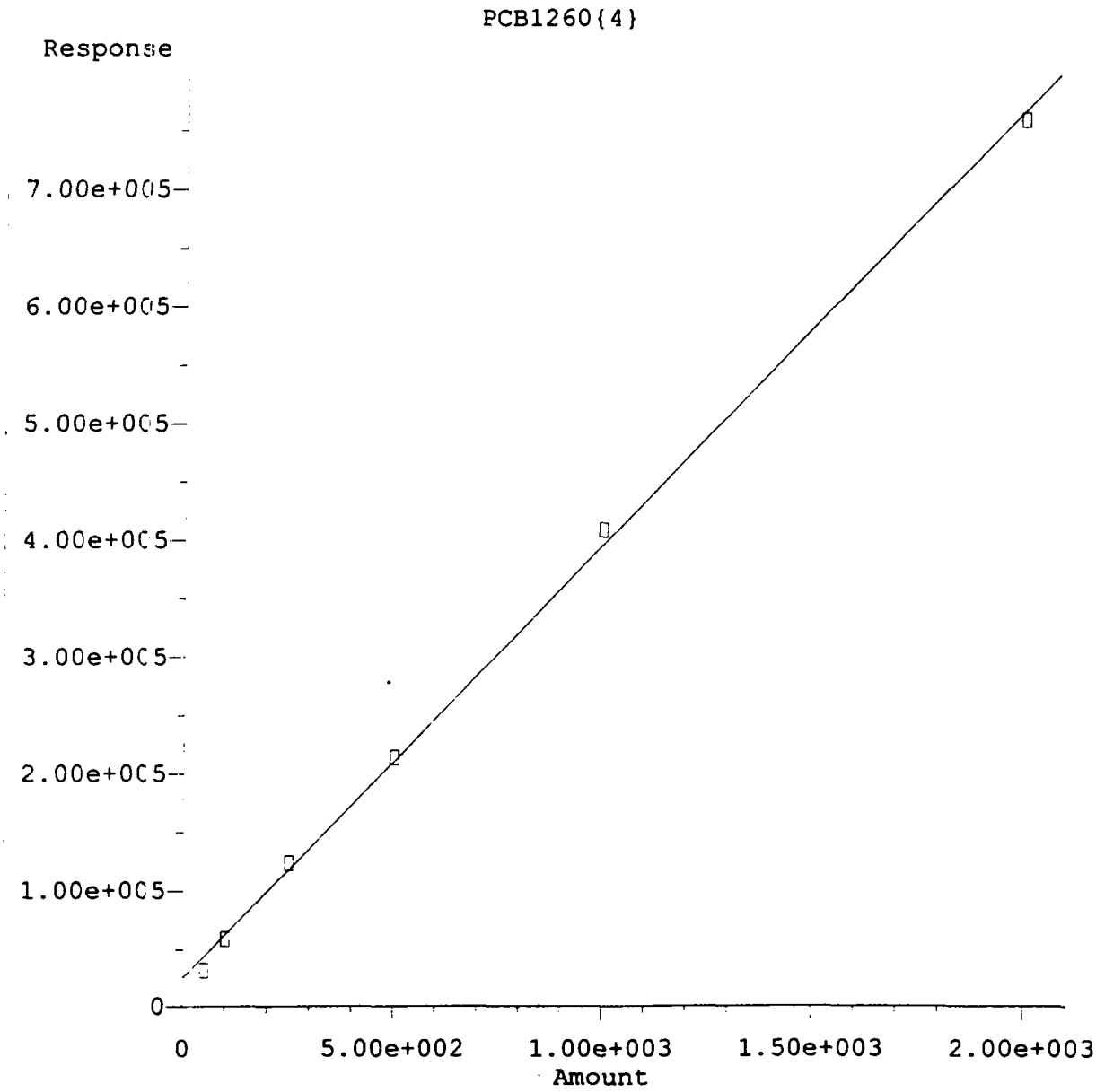
Calibration Files
50 =10G10988.D 100 =10G10987.D 250 =10G10986.D
500 =10G10985.D 1000 =10G10984.D 2000 =10G10983.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	1.542	1.526	1.372	1.280	1.205	1.060	1.331	E4	14.09
2)	L1	PCB1016{1}	5.483	5.075	4.407	4.142	3.672	3.180	4.327	E2	19.83
3)	L1	PCB1016{2}	2.943	3.577	2.765	2.462	2.153	1.782	2.614	E2	24.11
4)	L1	PCB1016{3}	0.816	1.074	0.904	0.826	0.745	0.629	0.833	E3	18.07
5)	L1	PCB1016{4}	5.768	6.126	5.208	4.692	4.185	3.539	4.920	E2	19.83
6)	L1	PCB1016{5}	2.065	2.567	2.309	2.146	1.965	1.710	2.127	E2	13.80
7)	L2	PCB1260{1}	1.921	2.428	2.138	1.956	1.765	1.542	1.958	E2	15.58
8)	L2	PCB1260{2}	6.312	5.281	5.329	4.894	4.374	3.725	4.986	E2	17.79
9)	L2	PCB1260{3}	5.041	4.843	4.227	3.857	3.575	3.099	4.107	E2	18.20
10)	L2	PCB1260{4}	6.400	5.911	4.955	4.275	4.085	3.789	4.902	E2	21.52
11)	L2	PCB1260{5}	7.389	8.156	7.032	6.531	5.632	5.152	6.649	E2	16.82
12)	S	DECACHLOROBIPHENYL	3.025	3.072	2.774	2.608	2.444	2.062	2.664	E3	14.26

(#) = Out of Range



Method Name: C:\HPCHEM\2\METHODS\8082EZ.M
Calibration Table Last Updated: Wed Oct 18 07:10:04 2000



Response = 3.70e+002 * Amt + 2.52e+004
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\2\METHODS\8082EZ.M
Calibration Table Last Updated: Wed Oct 18 07:15:59 2000

Data File : C:\HPCHEM\2\DATA\101700\10G10983.D Vial: 2
Acq On : 17 Oct 2000 14:26 Operator: SMW
Sample : ICV 1660 2.0 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:15 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.63	1060304	79.680 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	398.40%#
12) S DECACHLOROBIPHENYL	4.47	206236	77.413 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	387.07%#
Target Compounds			
2) L1 PCB1016{1}	2.17	636095	1478.736 UG/L
3) L1 PCB1016{2}	2.29	356486	1363.885 UG/L
4) L1 PCB1016{3}	2.45	1257094	1510.015 UG/L
5) L1 PCB1016{4}	2.64	707717	1438.581 UG/L
6) L1 PCB1016{5}	2.89	342041	1608.083 UG/L
Sum PCB1016		3299434	7399.300 UG/L
Average PCB1016			1479.860 UG/L
7) L2 PCB1260{1}	2.98	308309	1574.390 UG/L
8) L2 PCB1260{2}	3.27	745081	1494.371 UG/L
9) L2 PCB1260{3}	3.38	619707	1508.930 UG/L
10) L2 PCB1260{4}	3.53	757839	1562.592 UG/L
11) L2 PCB1260{5}	3.68	1030450	1566.334 UG/L
Sum PCB1260		3461385	7706.617 UG/L
Average PCB1260			1541.323 UG/L

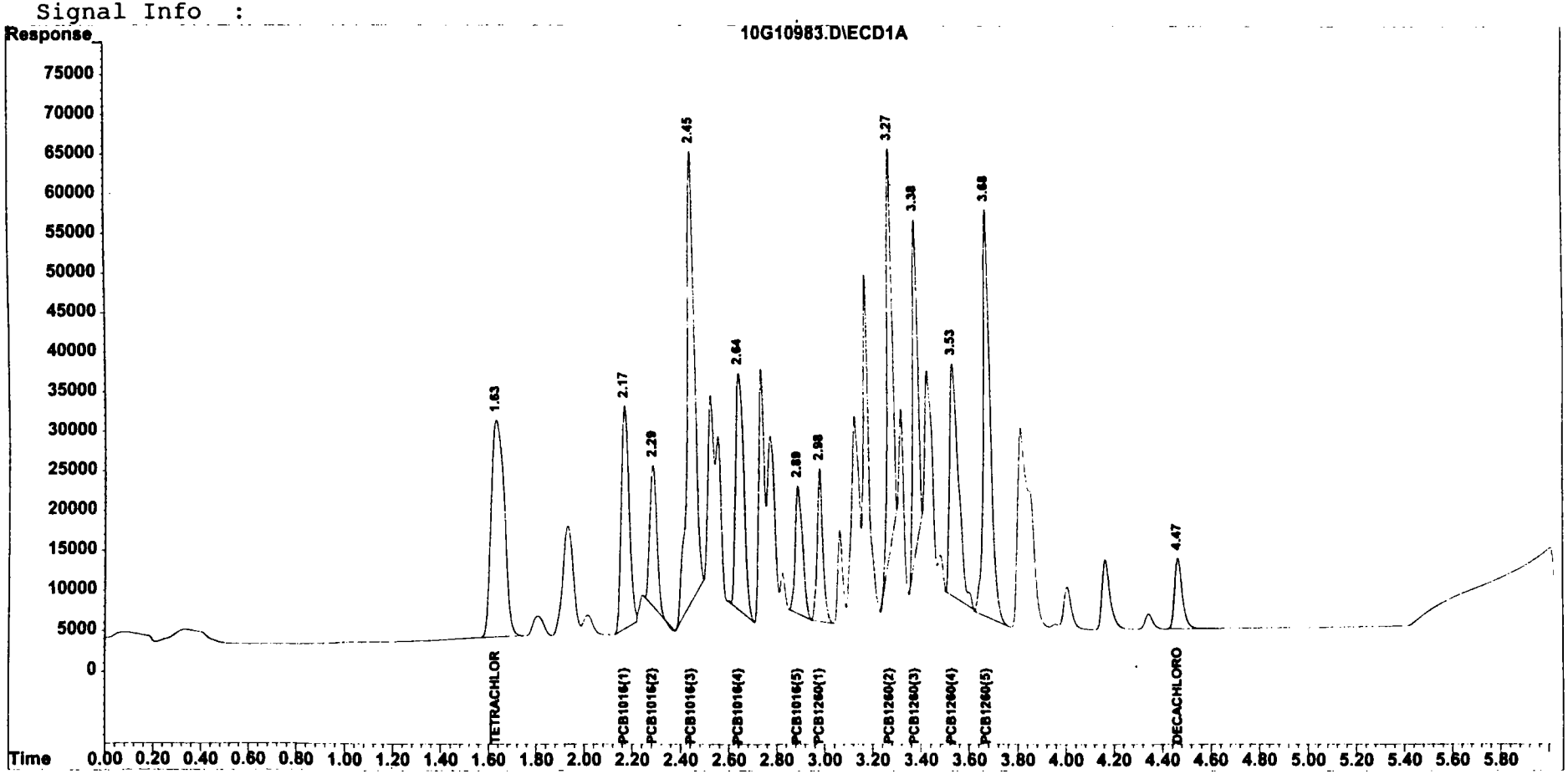
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10983.D Vial: 2
Acq On : 17 Oct 2000 14:26 Operator: SMW
Sample : ICV 1660 2.0 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:15 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\101700\10G10984.D Vial: 3
Acq On : 17 Oct 2000 14:34 Operator: SMW
Sample : ICV 1660 1.0 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:17 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	602393	45.269 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	226.35%#
12) S DECACHLOROBIPHENYL	4.47	122198	45.869 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	229.35%#
Target Compounds			
2) L1 PCB1016{1}	2.17	367235	848.769 UG/L
3) L1 PCB1016{2}	2.29	215339	987.509 UG/L
4) L1 PCB1016{3}	2.45	745279	895.224 UG/L
5) L1 PCB1016{4}	2.65	418478	850.643 UG/L
6) L1 PCB1016{5}	2.89	196542	924.027 UG/L
Sum PCB1016		1942873	4506.173 UG/L
Average PCB1016			901.235 UG/L
7) L2 PCB1260{1}	2.98	176508	901.342 UG/L
8) L2 PCB1260{2}	3.28	437423	877.318 UG/L
9) L2 PCB1260{3}	3.38	357459	870.381 UG/L
10) L2 PCB1260{4}	3.53	408460	1035.316 UG/L
11) L2 PCB1260{5}	3.68	563241	847.144 UG/L
Sum PCB1260		1943091	4531.502 UG/L
Average PCB1260			906.300 UG/L

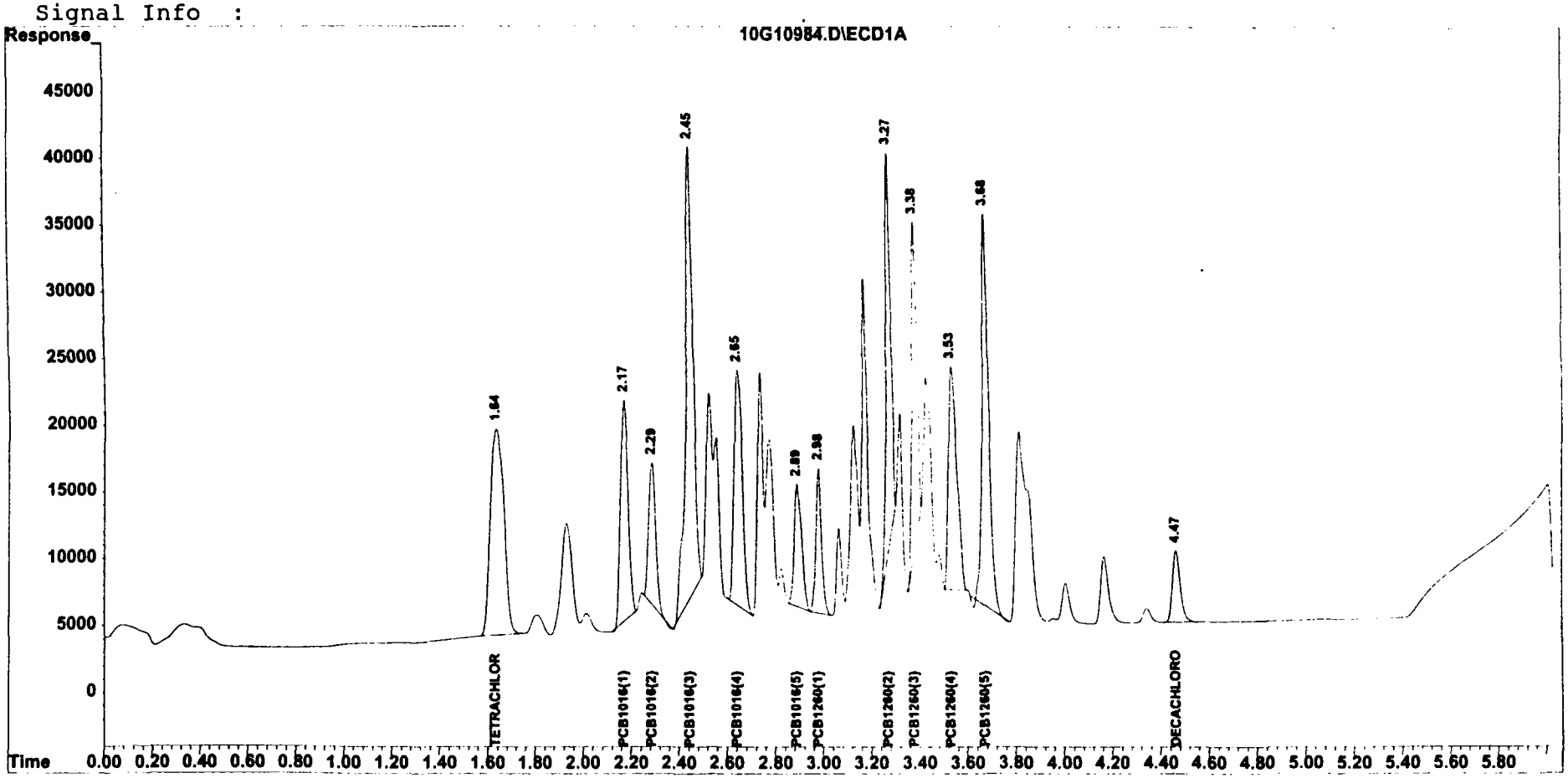
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10984.D Vial: 3
Acq On : 17 Oct 2000 14:34 Operator: SMW
Sample : ICV 1660 1.0 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:17 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10985.D Vial: 4
Acq On : 17 Oct 2000 14:42 Operator: SMW
Sample : ICV 1660 0.5 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:17 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	319910	24.041 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	120.21%
12) S DECACHLOROBIPHENYL	4.47	65199	24.473 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	122.37%
Target Compounds			
2) L1 PCB1016{1}	2.17	207120	478.705 UG/L
3) L1 PCB1016{2}	2.29	123089	506.989 UG/L
4) L1 PCB1016{3}	2.45	413213	496.350 UG/L
5) L1 PCB1016{4}	2.65	234612	476.898 UG/L
6) L1 PCB1016{5}	2.89	107283	504.382 UG/L
Sum PCB1016		1085317	2463.323 UG/L
Average PCB1016			492.665 UG/L
7) L2 PCB1260{1}	2.98	97787	499.350 UG/L
8) L2 PCB1260{2}	3.28	244685	490.752 UG/L
9) L2 PCB1260{3}	3.38	192850	469.571 UG/L
10) L2 PCB1260{4}	3.53	213729	509.230 UG/L
11) L2 PCB1260{5}	3.68	326530	491.119 UG/L
Sum PCB1260		1075579	2460.022 UG/L
Average PCB1260			492.004 UG/L

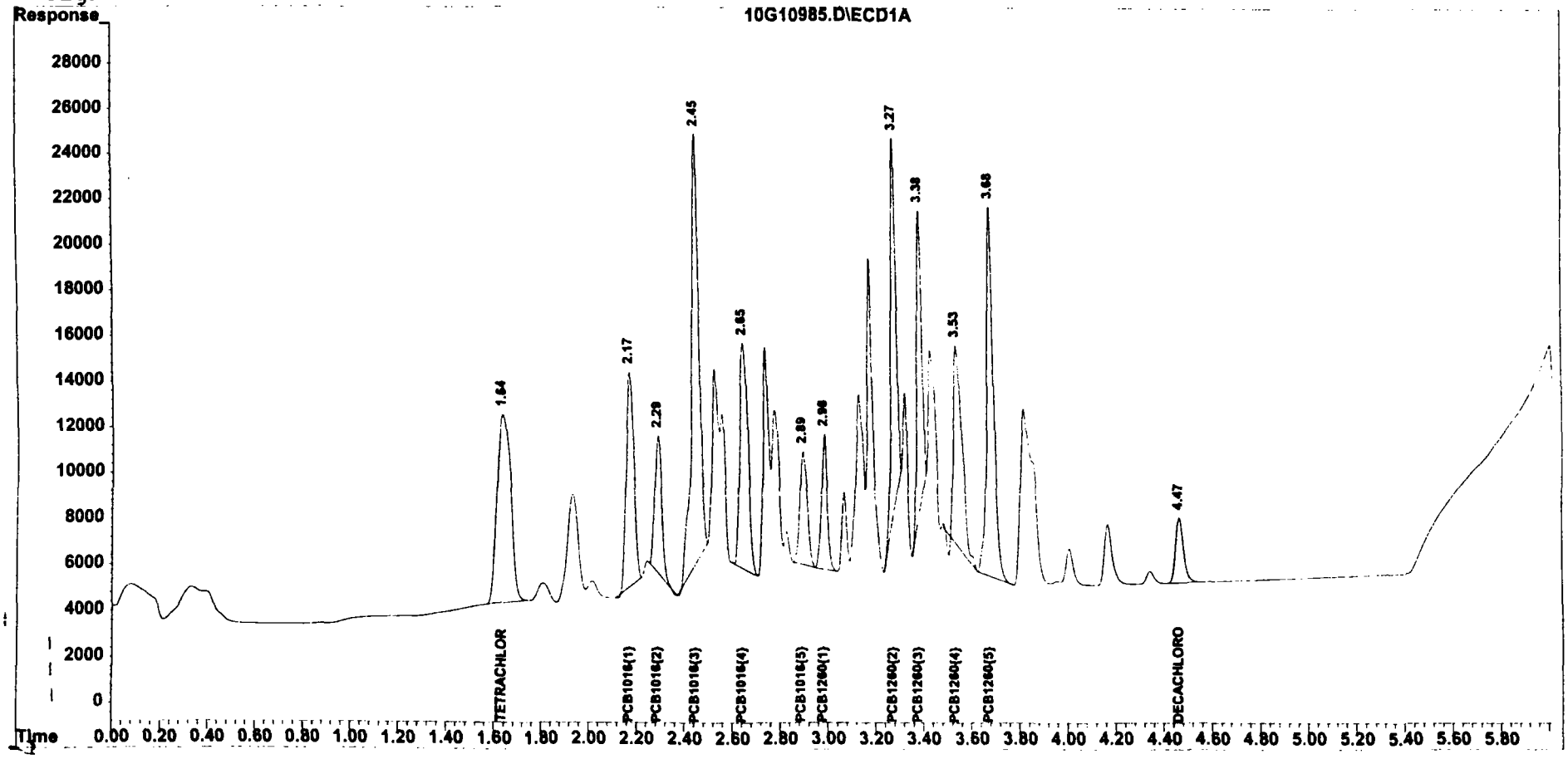
(f)=RT Delta > 1/2 Window (m)=manual int.
10G10985.D 8082EZ.M Wed Oct 18 07:17:58 2000 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10985.D Vial: 4
Acq On : 17 Oct 2000 14:42 Operator: SMW
Sample : ICV 1660 0.5 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:17 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10986.D Vial: 5
Acq On : 17 Oct 2000 14:49 Operator: SMW
Sample : ICV 1660 0.25 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:14 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	171498	12.888 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	64.44%
12) S DECACHLOROBIPHENYL	4.47	34670	13.014 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	65.07%
Target Compounds			
2) L1 PCB1016{1}	2.17	110168	253.908 UG/L
3) L1 PCB1016{2}	2.29	69135	264.506 UG/L
4) L1 PCB1016{3}	2.45	226053	271.534 UG/L
5) L1 PCB1016{4}	2.65	130197	264.652 UG/L
6) L1 PCB1016{5}	2.89	57725	271.392 UG/L
Sum PCB1016		593279	1325.991 UG/L
Average PCB1016			265.198 UG/L
7) L2 PCB1260{1}	2.98	53455	272.970 UG/L
8) L2 PCB1260{2}	3.28	133217	267.186 UG/L
9) L2 PCB1260{3}	3.38	105677	257.314 UG/L
10) L2 PCB1260{4}	3.53	123873	257.811 UG/L
11) L2 PCB1260{5}	3.68	175798	267.221 UG/L
Sum PCB1260		592019	1322.502 UG/L
Average PCB1260			264.500 UG/L

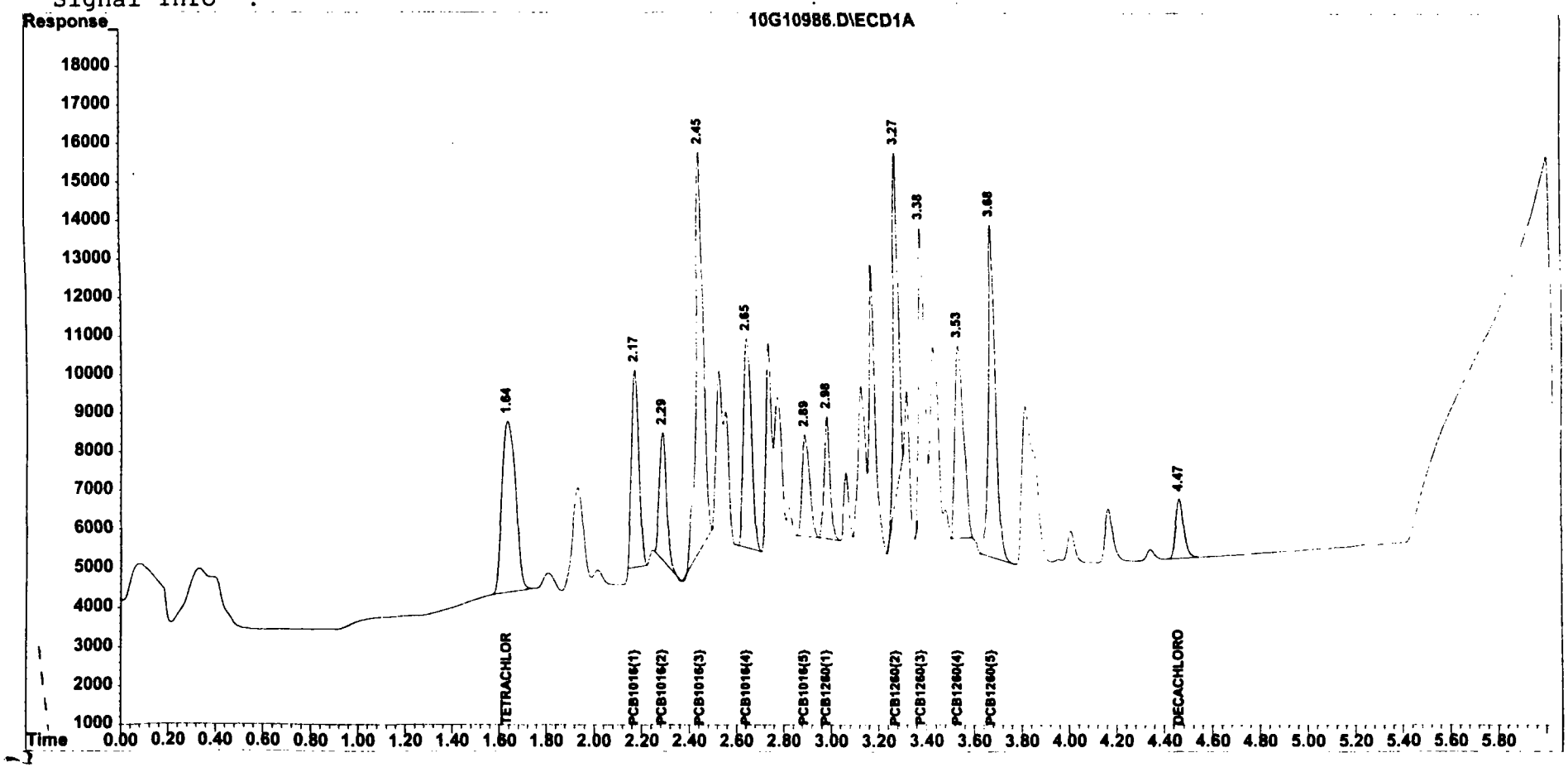
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10986.D Vial: 5
Acq On : 17 Oct 2000 14:49 Operator: SMW
Sample : ICV 1660 0.25 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:14 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10987.D Vial: 6
Acq On : 17 Oct 2000 14:57 Operator: SMW
Sample : ICV 1660 0.1 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:13 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	76298	5.734 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	28.67%
12) S DECACHLOROBIPHENYL	4.47	15358	5.765 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	28.83%
Target Compounds			
2) L1 PCB1016{1}	2.17	50752	115.482 UG/L
3) L1 PCB1016{2}	2.29	35769	136.850 UG/L
4) L1 PCB1016{3}	2.45	107427	129.040 UG/L
5) L1 PCB1016{4}	2.65	61257	124.517 UG/L
6) L1 PCB1016{5}	2.89	25668	120.674 UG/L
Sum PCB1016		280872	626.564 UG/L
Average PCB1016			125.313 UG/L
7) L2 PCB1260{1}	2.98	24279	123.980 UG/L
8) L2 PCB1260{2}	3.28	52813	102.348 UG/L
9) L2 PCB1260{3}	3.38	48430	117.923 UG/L
10) L2 PCB1260{4}	3.54	59109	124.681 UG/L
11) L2 PCB1260{5}	3.68	81559	123.974 UG/L
Sum PCB1260		266190	592.907 UG/L
Average PCB1260			118.581 UG/L

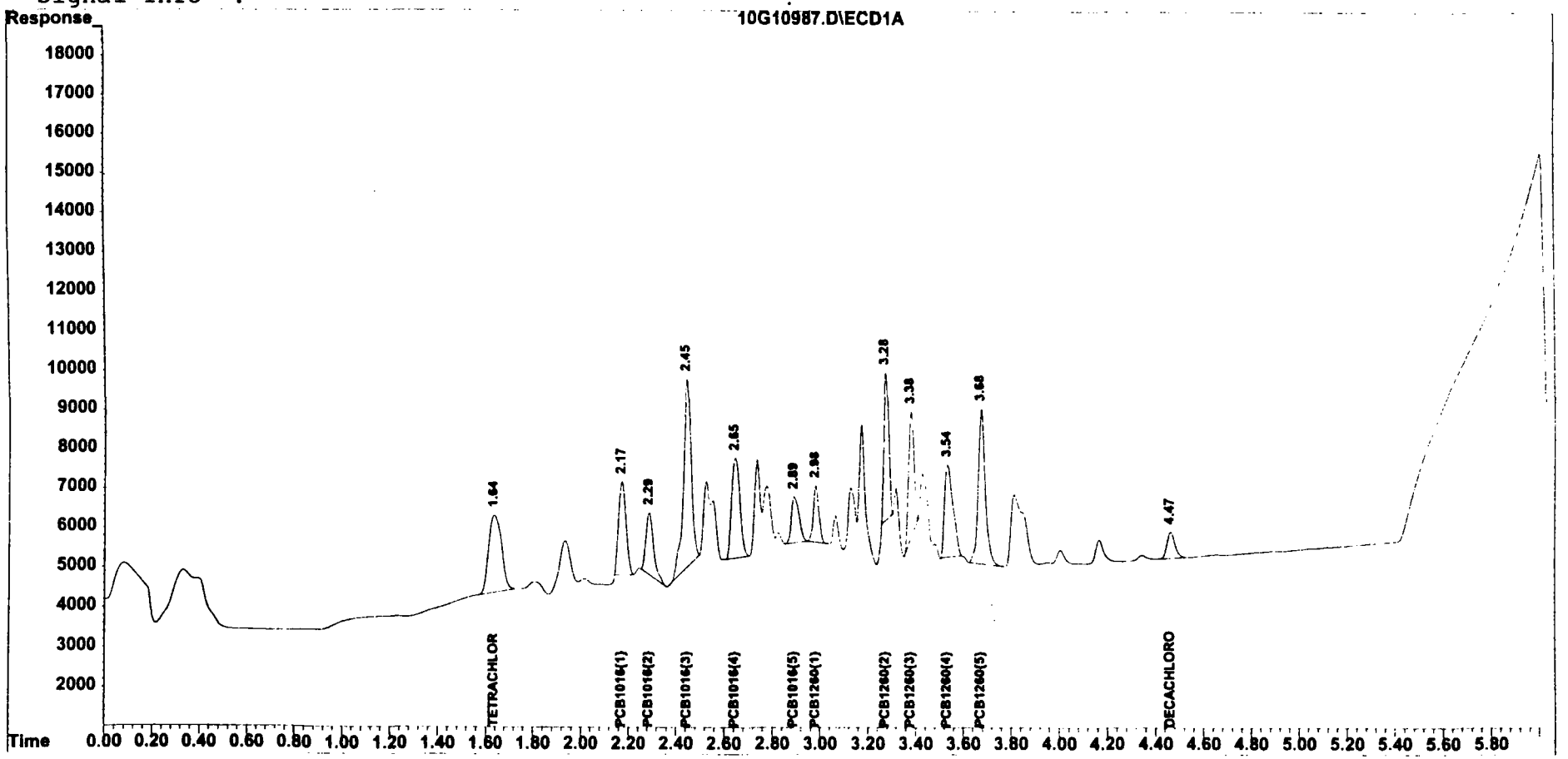
(f)=RT Delta > 1/2 Window (m)=manual int.
10G10987.D 8082EZ.M Wed Oct 18 07:17:21 2000 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10987.D Vial: 6
Acq On : 17 Oct 2000 14:57 Operator: SMW
Sample : ICV 1660 0.1 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:13 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10988.D Vial: 7
Acq On : 17 Oct 2000 15:05 Operator: SMW
Sample : ICV 1660 0.05 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:11 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	38538	2.896 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	14.48%
12) S DECACHLOROBIPHENYL	4.47	7563	2.839 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	14.20%#
Target Compounds			
2) L1 PCB1016{1}	2.18	27415	61.825 UG/L
3) L1 PCB1016{2}	2.29	14713	52.640 UG/L
4) L1 PCB1016{3}	2.45	40815	45.898 UG/L
5) L1 PCB1016{4}	2.65	28841	57.520 UG/L
6) L1 PCB1016{5}	2.89	10325	46.731 UG/L
Sum PCB1016		122108	264.615 UG/L
Average PCB1016			52.923 UG/L
7) L2 PCB1260{1}	2.98	9606	46.473 UG/L
8) L2 PCB1260{2}	3.28	31561	60.352 UG/L
9) L2 PCB1260{3}	3.38	25207	61.376 UG/L
10) L2 PCB1260{4}	3.54	32000	66.249 UG/L
11) L2 PCB1260{5}	3.68	36945	54.652 UG/L
Sum PCB1260		135319	289.103 UG/L
Average PCB1260			57.821 UG/L

77

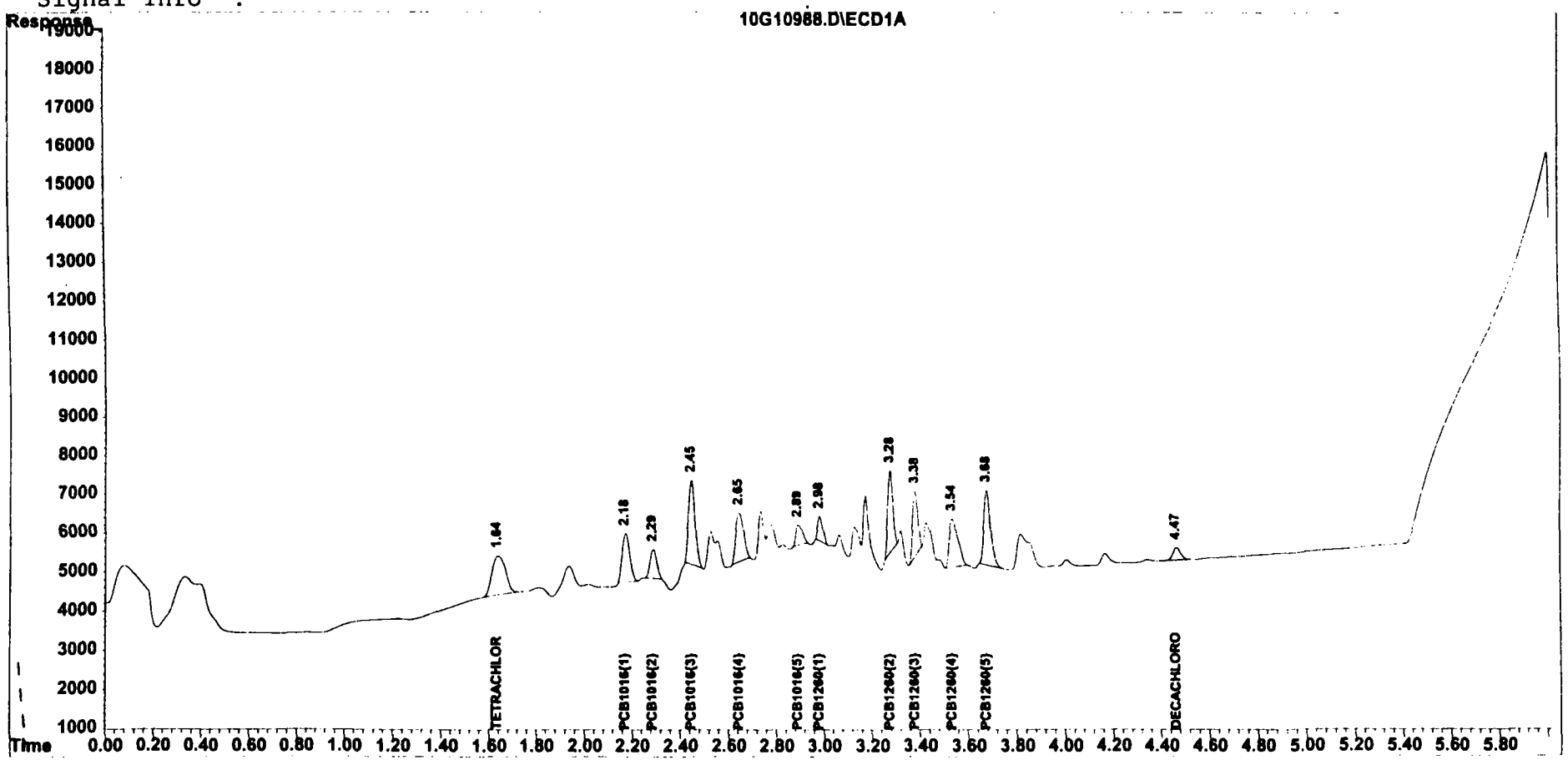
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10988.D Vial: 7
Acq On : 17 Oct 2000 15:05 Operator: SMW
Sample : ICV 1660 0.05 PPM S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:11 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/12/00
Last Update : Wed Oct 18 07:10:04 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10989.D Vial: 8
Acq On : 17 Oct 2000 15:13 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	1.149	95.4#	5	0.02
2	L1	PCB1016{1}	500.000	465.171	7.0	97	0.00
3	L1	PCB1016{2}	500.000	491.536	1.7	97	0.00
4	L1	PCB1016{3}	500.000	479.441	4.1	97	0.00
5	L1	PCB1016{4}	500.000	464.626	7.1	97	0.00
6	L1	PCB1016{5}	500.000	541.553	-8.3	107	0.00
7	L2	PCB1260{1}	500.000	573.203	-14.6	115	0.00
8	L2	PCB1260{2}	500.000	490.601	1.9	100	0.00
9	L2	PCB1260{3}	500.000	520.664	-4.1	111	0.00
10	L2	PCB1260{4}	500.000	468.161	6.4	93	0.00
11	L2	PCB1260{5}	500.000	434.337	13.1	88	0.00
12	S	DECACHLOROBIPHENYL	25.000	0.502	98.0#	2	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
10G10989.D 8082EZ.M Wed Oct 18 07:16:56 2000

Data File : C:\HPCHEM\2\DATA\101700\10G10989.D Vial: 8
Acq On : 17 Oct 2000 15:13 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:16 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

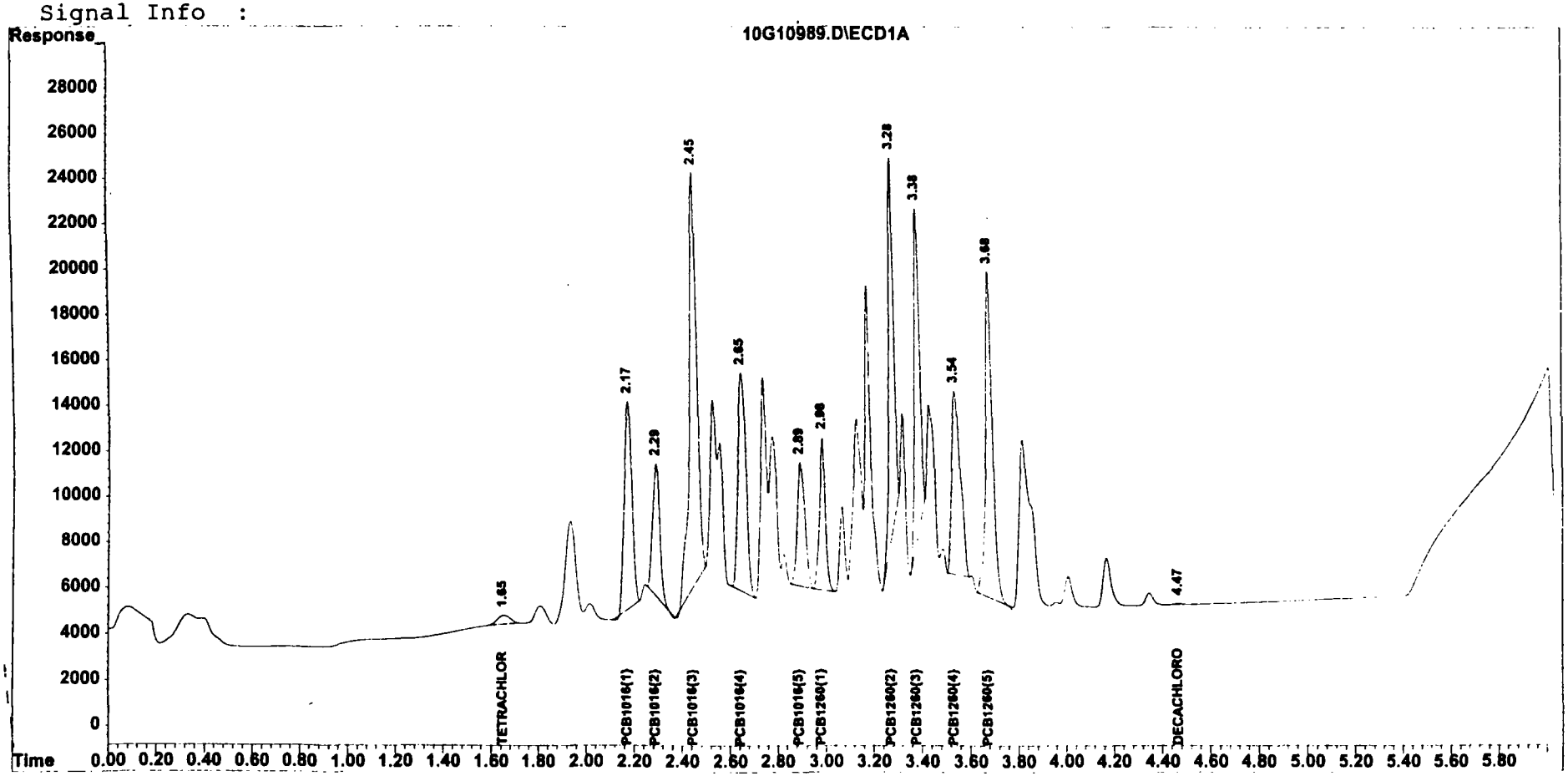
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.65	15293	1.149 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	5.75%#
12) S DECACHLOROBIPHENYL	4.47	1338	0.502 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	2.51%#
Target Compounds			
2) L1 PCB1016{1}	2.18	201264	465.171 UG/L
3) L1 PCB1016{2}	2.29	119850	491.536 UG/L
4) L1 PCB1016{3}	2.45	399137	479.441 UG/L
5) L1 PCB1016{4}	2.65	228575	464.626 UG/L
6) L1 PCB1016{5}	2.89	115189	541.553 UG/L
Sum PCB1016		1064016	2442.326 UG/L
Average PCB1016			488.465 UG/L
7) L2 PCB1260{1}	2.98	112249	573.203 UG/L
8) L2 PCB1260{2}	3.28	244609	490.601 UG/L
9) L2 PCB1260{3}	3.38	213833	520.664 UG/L
10) L2 PCB1260{4}	3.54	198527	468.161 UG/L
11) L2 PCB1260{5}	3.68	288778	434.337 UG/L
Sum PCB1260		1057996	2486.966 UG/L
Average PCB1260			497.393 UG/L

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10989.D Vial: 8
Acq On : 17 Oct 2000 15:13 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 18 7:16 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Wed Oct 18 07:16:11 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP10

Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000

Calibration Files
50 =10G10995.D 100 =10G10994.D 250 =10G10993.D
500 =10G10992.D 1000 =10G10991.D 2000 =10G10990.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	1.419	1.333	1.213	1.230	1.093	1.008	1.216	E4	12.39
2)	L1	PCB1254{1}	3.297	3.223	2.869	2.790	2.364	2.071	2.769	E2	17.29
3)	L1	PCB1254{2}	8.539	8.167	7.102	6.861	5.856	5.191	6.953	E2	18.57
4)	L1	PCB1254{3}	3.920	3.626	3.302	3.302	2.915	2.639	3.284	E2	14.12
5)	L1	PCB1254{4}	6.155	5.395	5.092	4.944	4.259	3.844	4.948	E2	16.59
6)	L1	PCB1254{5}	7.608	6.985	6.742	6.891	6.050	5.671	6.658	E1	10.44
7)	S	DECACHLOROBIPHENYL	1.237	2.100	2.322	2.212	2.108	1.904	1.980	E3	19.68

(#) = Out of Range

Data File : C:\HPCHEM\2\DATA\101700\10G10990.D Vial: 9
Acq On : 17 Oct 2000 15:21 Operator: SMW
Sample : ICV 1254 2.0 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

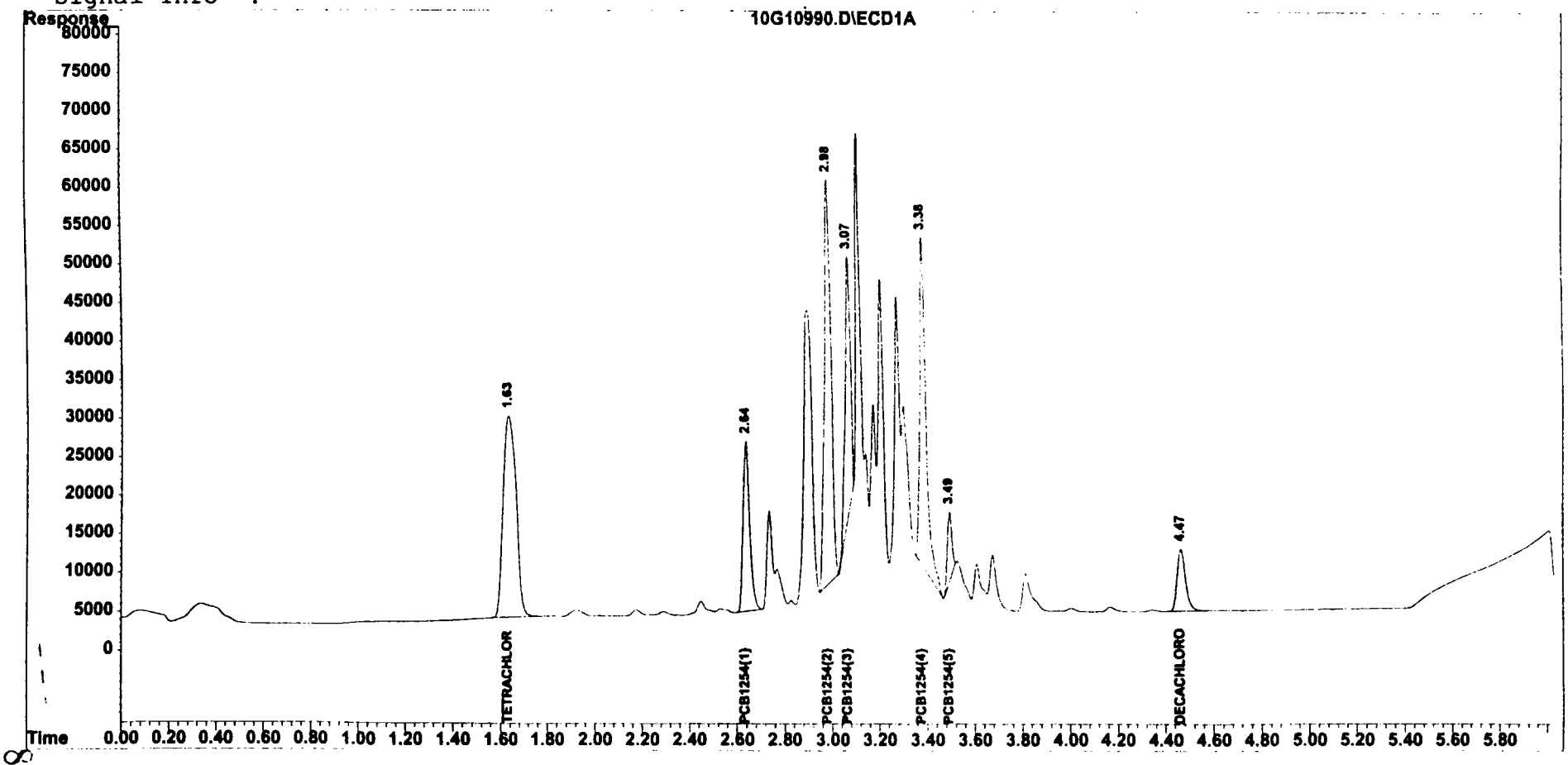
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.63	1008293	82.913 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	414.57%#
7) S DECACHLOROBIPHENYL	4.47	190365	96.128 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	480.64%#
Target Compounds			
2) L1 PCB1254{1}	2.64	414151	1495.617 UG/L
3) L1 PCB1254{2}	2.98	1038127	1493.136 UG/L
4) L1 PCB1254{3}	3.07	527759	1607.012 UG/L
5) L1 PCB1254{4}	3.38	768770	1553.681 UG/L
6) L1 PCB1254{5}	3.50	113416	1703.522 UG/L
Sum PCB1254		2862223	7852.968 UG/L
Average PCB1254			1570.594 UG/L

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10990.D Vial: 9
Acq On : 17 Oct 2000 15:21 Operator: SMW
Sample : ICV 1254 2.0 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10991.D Vial: 10
Acq On : 17 Oct 2000 15:29 Operator: SMW
Sample : ICV 1254 1.0 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.63	546430	44.933 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	224.67%#
7) S DECACHLOROBIPHENYL	4.46	105398	53.223 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	266.12%#
Target Compounds			
2) L1 PCB1254{1}	2.64	236444	853.868 UG/L
3) L1 PCB1254{2}	2.98	585551	842.197 UG/L
4) L1 PCB1254{3}	3.07	291486	887.567 UG/L
5) L1 PCB1254{4}	3.38	425905	860.752 UG/L
6) L1 PCB1254{5}	3.49	60502	908.753 UG/L
Sum PCB1254		1599889	4353.137 UG/L
Average PCB1254			870.627 UG/L

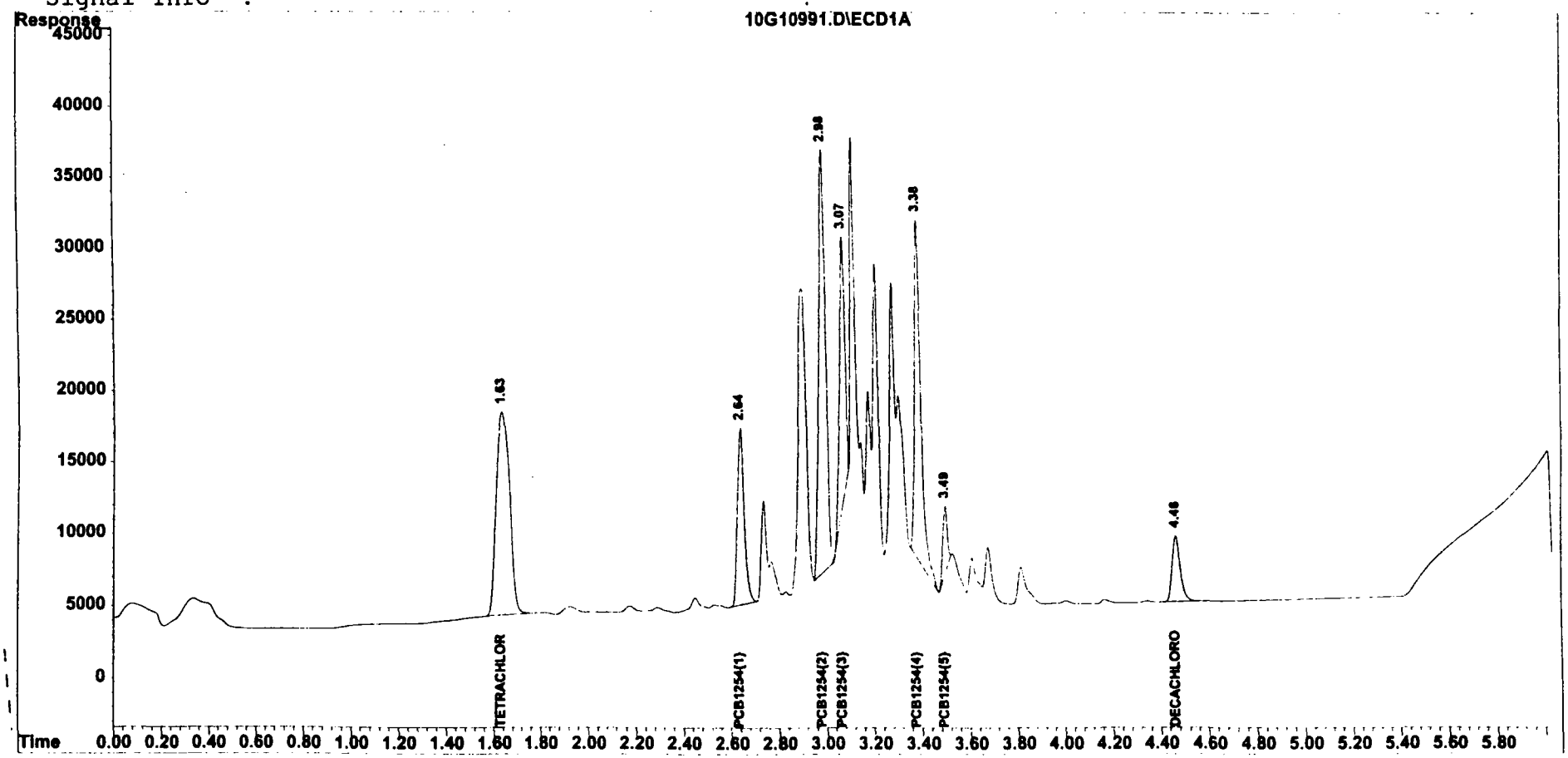
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantit ion Report

Data File : C:\HPCHEM\2\DATA\101700\10G10991.D Vial: 10
Acq On : 17 Oct 2000 15:29 Operator: SMW
Sample : ICV 1254 1.0 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10992.D Vial: 11
Acq On : 17 Oct 2000 15:36 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.63	307576	25.292 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 126.46%	
7) S DECACHLOROBIPHENYL	4.46	55292	27.921 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 139.61%	
Target Compounds			
2) L1 PCB1254{1}	2.64	139501	503.779 UG/L
3) L1 PCB1254{2}	2.98	343074	493.443 UG/L
4) L1 PCB1254{3}	3.07	165115	502.771 UG/L
5) L1 PCB1254{4}	3.38	247182	499.553 UG/L
6) L1 PCB1254{5}	3.49	34454	517.497 UG/L
Sum PCB1254		929326	2517.043 UG/L
Average PCB1254			503.409 UG/L

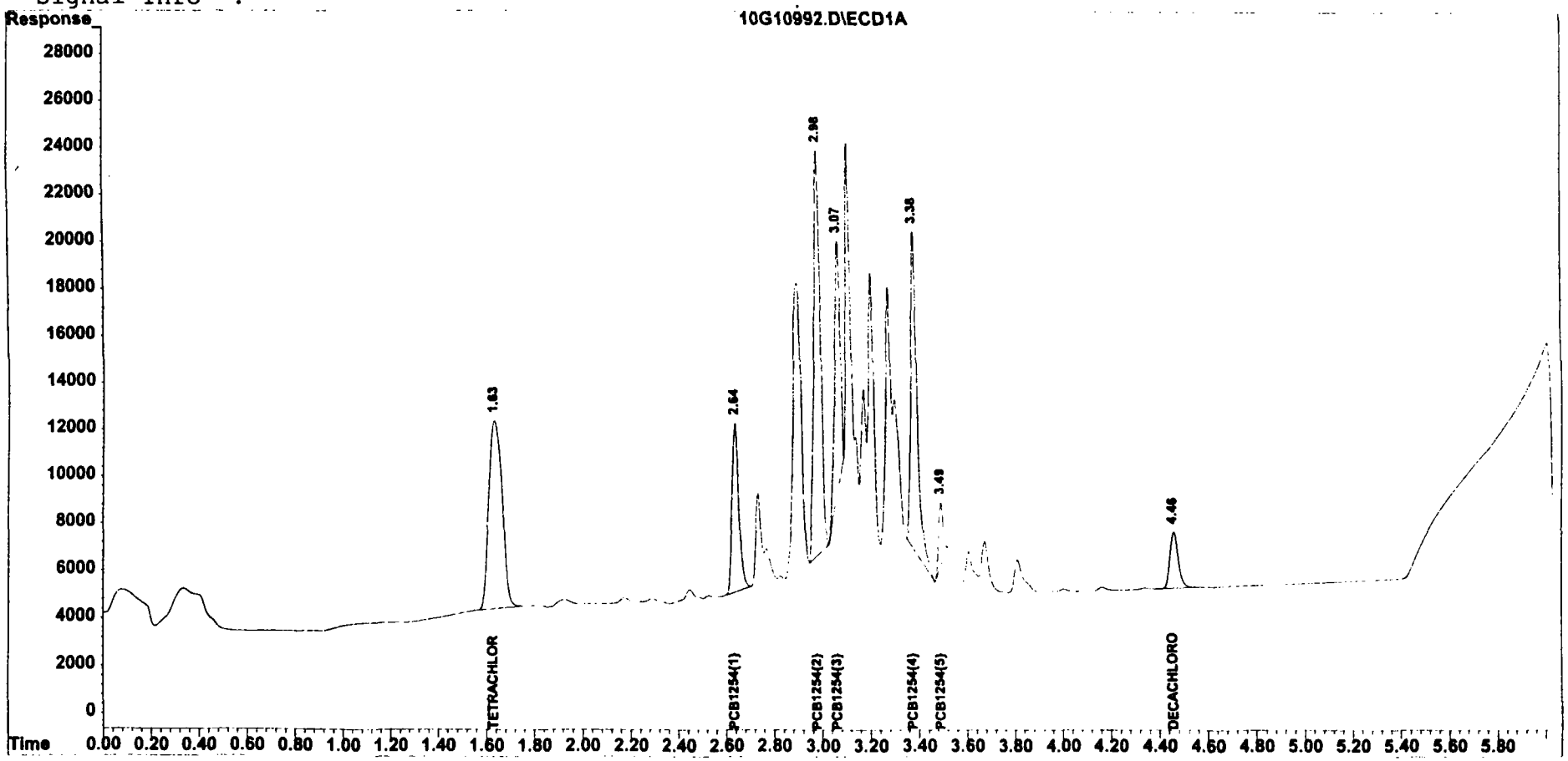
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10992.D Vial: 11
Acq On : 17 Oct 2000 15:36 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10993.D Vial: 12
Acq On : 17 Oct 2000 15:44 Operator: SMW
Sample : ICV 1254 0.25 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	151627	12.468 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	62.34%
7) S DECACHLOROBIPHENYL	4.47	29023	14.656 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	73.28%
Target Compounds			
2) L1 PCB1254{1}	2.64	71731	259.042 UG/L
3) L1 PCB1254{2}	2.98	177547	255.365 UG/L
4) L1 PCB1254{3}	3.07	82547	251.353 UG/L
5) L1 PCB1254{4}	3.38	127311	257.295 UG/L
6) L1 PCB1254{5}	3.50	16854	253.153 UG/L
Sum PCB1254		475990	1276.207 UG/L
Average PCB1254			255.241 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

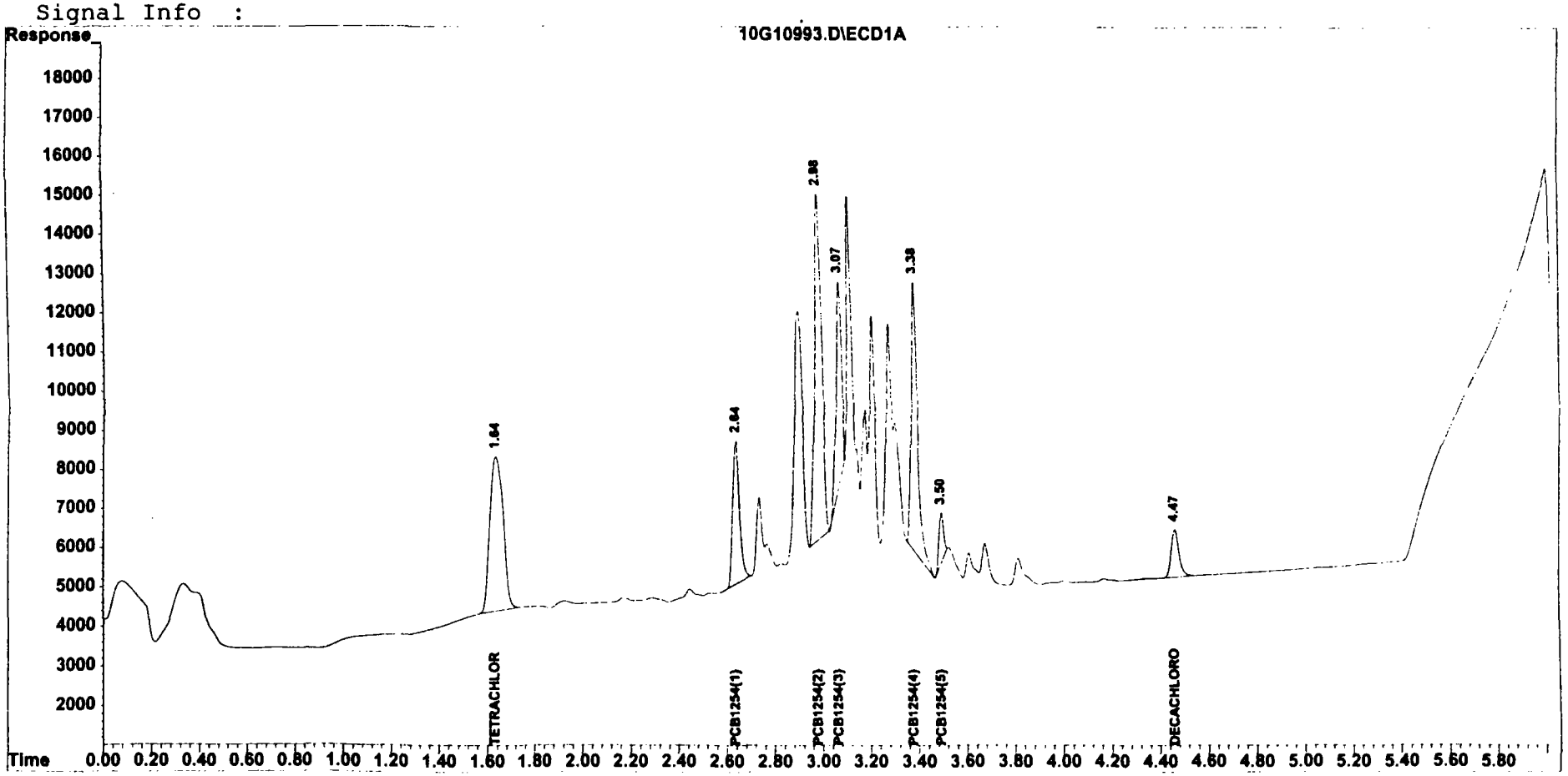
Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10993.D
Acq On : 17 Oct 2000 15:44
Sample : ICV 1254 0.25 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Vial: 12
Operator: SMW
Inst : HP10
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10994.D Vial: 13
Acq On : 17 Oct 2000 15:52 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	66637	5.480 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	27.40%
7) S DECACHLOROBIPHENYL	4.47	10499	5.302 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	26.51%#
Target Compounds			
2) L1 PCB1254{1}	2.64	32233	116.401 UG/L
3) L1 PCB1254{2}	2.99	81671	117.467 UG/L
4) L1 PCB1254{3}	3.07	36264	110.422 UG/L
5) L1 PCB1254{4}	3.38	53947	109.027 UG/L
6) L1 PCB1254{5}	3.50	6985	104.908 UG/L
Sum PCB1254		211099	558.225 UG/L
Average PCB1254			111.645 UG/L

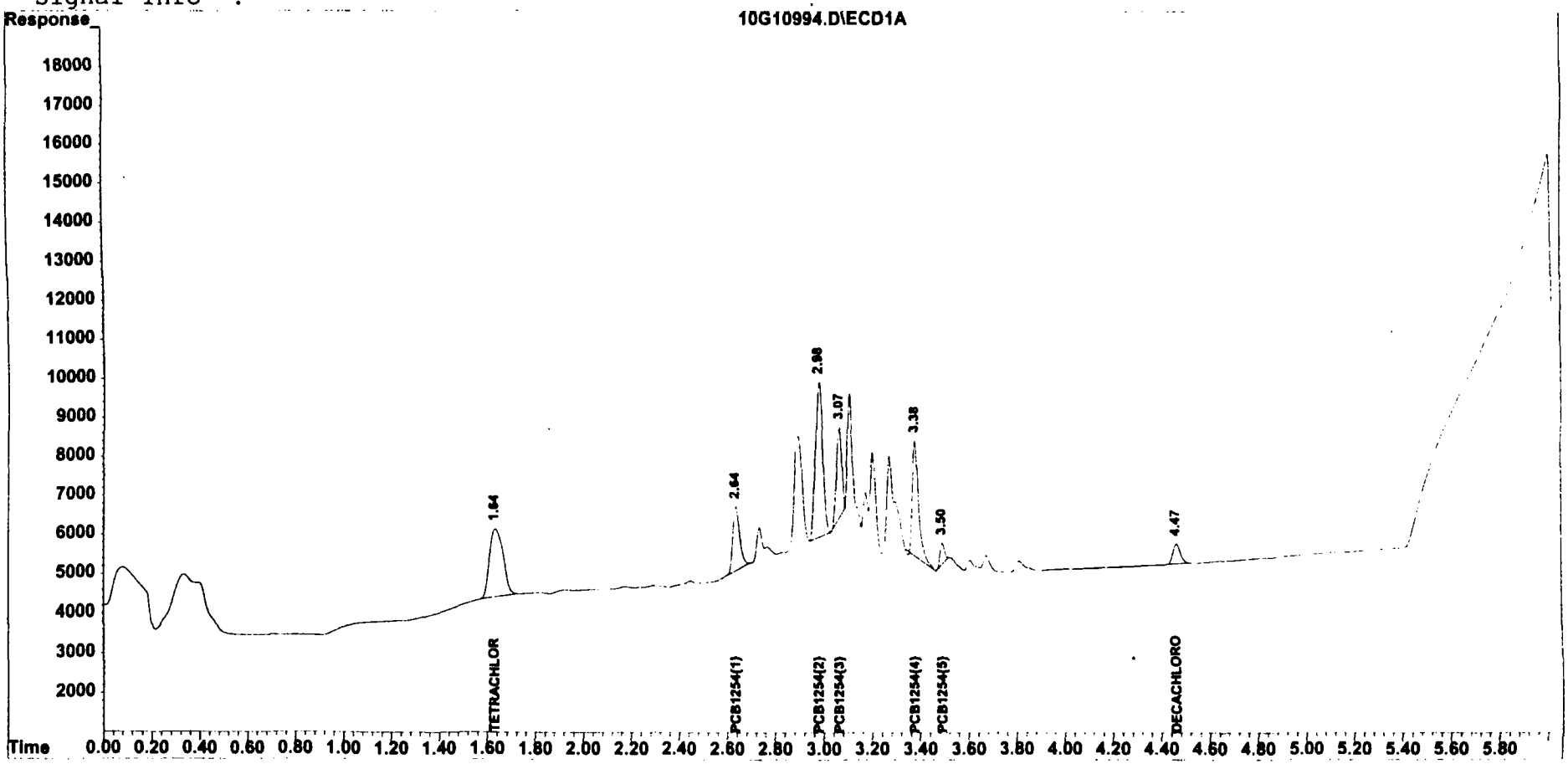
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10994.D Vial: 13
Acq On : 17 Oct 2000 15:52 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:21 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\101700\10G10995.D Vial: 14
Acq On : 17 Oct 2000 16:00 Operator: SMW
Sample : ICV 1254 0.05 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:20 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/12/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	35483	2.918 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	14.59%#
7) S DECACHLOROBIPHENYL	4.47	3092	1.562 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	7.81%#
Target Compounds			
2) L1 PCB1254{1}	2.64	16484	59.529 UG/L
3) L1 PCB1254{2}	2.98	42697	60.667 UG/L
4) L1 PCB1254{3}	3.07	19602	59.688 UG/L
5) L1 PCB1254{4}	3.38	30773	62.193 UG/L
6) L1 PCB1254{5}	3.50	3804	57.140 UG/L
Sum PCB1254		113361	299.217 UG/L
Average PCB1254			59.843 UG/L

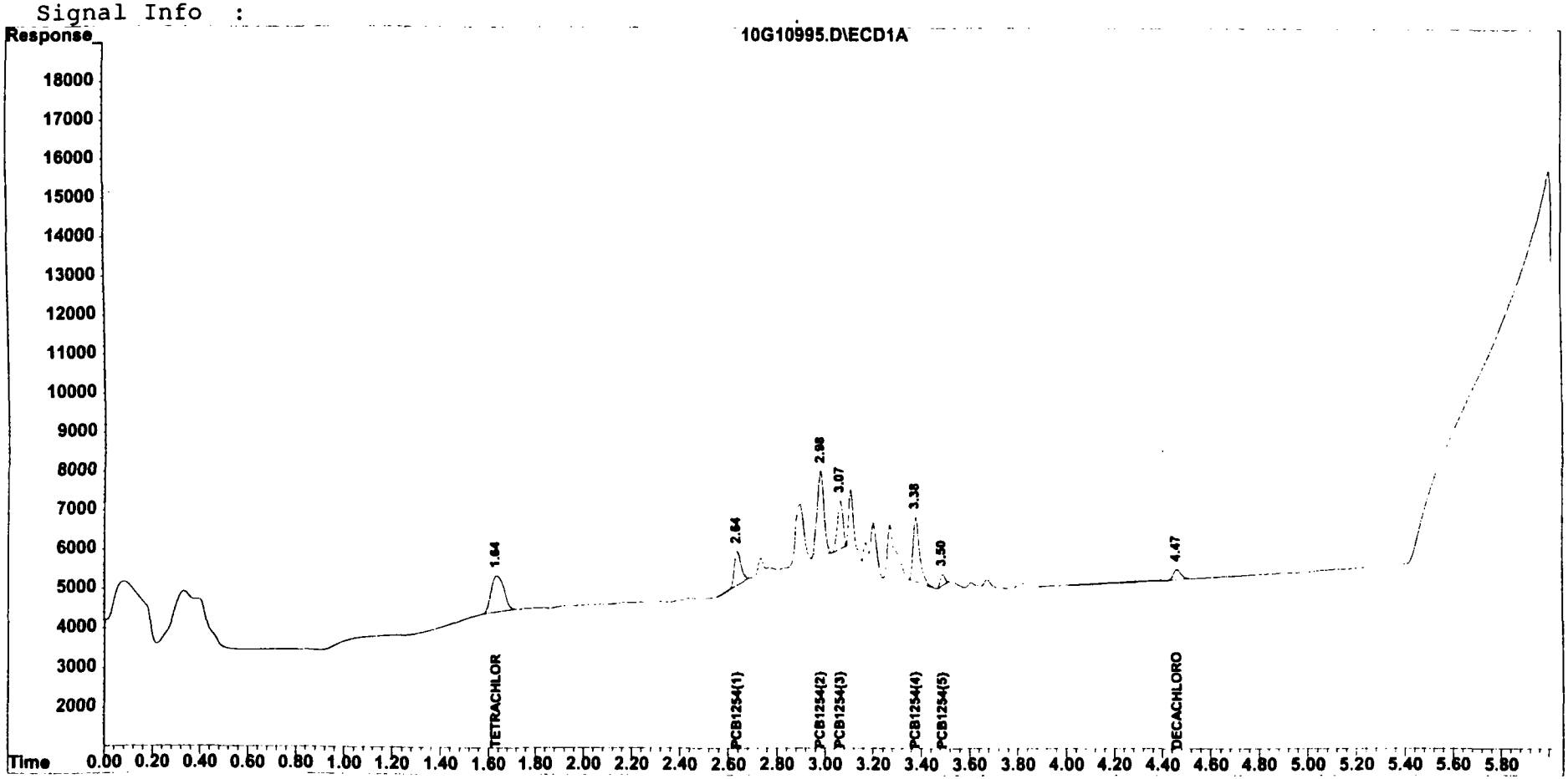
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10995.D Vial: 14
Acq On : 17 Oct 2000 16:00 Operator: SMW
Sample : ICV 1254 0.05 PPM S50-02 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:20 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/12/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10996.D Vial: 15
Acq On : 17 Oct 2000 16:08 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	23.868	4.5	94	0.00
2	L1	PCB1254{1}	500.000	504.360	-0.9	100	0.00
3	L1	PCB1254{2}	500.000	487.284	2.5	99	0.00
4	L1	PCB1254{3}	500.000	498.032	0.4	99	0.00
5	L1	PCB1254{4}	500.000	445.539	10.9	89	0.00
6	L1	PCB1254{5}	500.000	527.499	-5.5	102	0.00
7	S	DECACHLOROBIPHENYL	25.000	29.099	-16.4#	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
10G10996.D 1254FCG.M Wed Oct 18 07:48:50 2000

Data File : C:\HPCHEM\2\DATA\101700\10G10996.D Vial: 15
Acq On : 17 Oct 2000 16:08 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:48 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	290255	23.868 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 119.34%	
7) S DECACHLOROBIPHENYL	4.47	57626	29.099 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 145.50%	
Target Compounds			
2) L1 PCB1254{1}	2.64	139662	504.360 UG/L
3) L1 PCB1254{2}	2.98	338792	487.284 UG/L
4) L1 PCB1254{3}	3.07	163559	498.032 UG/L
5) L1 PCB1254{4}	3.38	220455	445.539 UG/L
6) L1 PCB1254{5}	3.49	35120	527.499 UG/L
Sum PCB1254		897588	2462.713 UG/L
Average PCB1254			492.543 UG/L

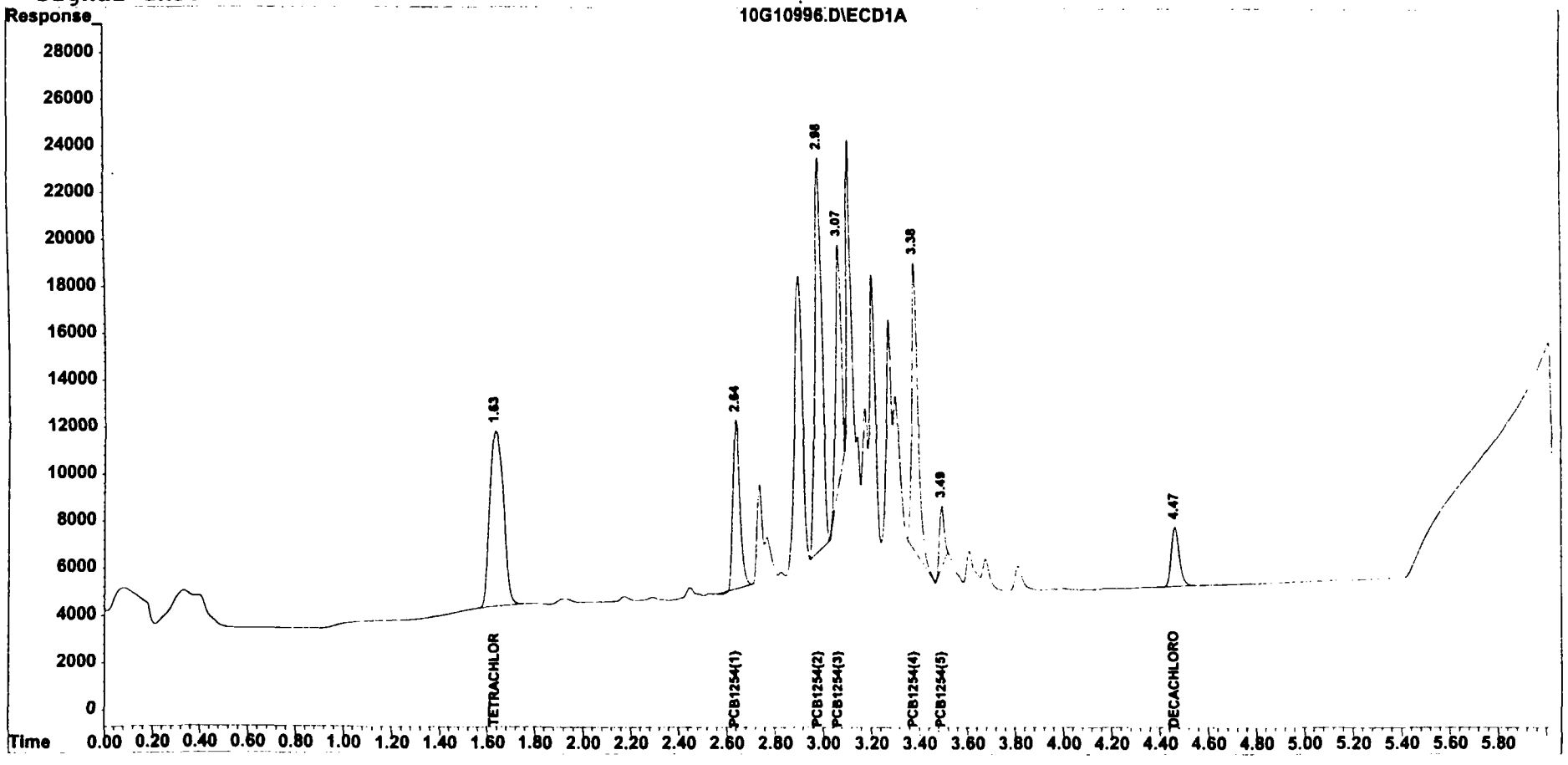
(f)=RT Delta > 1/2 Window (m)=manual int.
10G10996.D 1254FCG.M Wed Oct 18 07:48:47 2000

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10996.D Vial: 15
Acq On : 17 Oct 2000 16:08 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP10
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 18 7:48 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\2\METHODS\1254FCG.M (Chemstation Integrator)
Title : PCB 10/17/00
Last Update : Wed Oct 18 07:18:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G10997.D Vial: 16
Acq On : 17 Oct 2000 16:16 Operator: SMW
Sample : ICV 1221 0.5 PPM S49-04 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:49 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:26:34 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	366406	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	4.47	62444	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1221{1}	1.27	49096	500.000 UG/L
3) L1 PCB1221{2}	1.81	65155	500.000 UG/L
4) L1 PCB1221{3}	1.93	196801	500.000 UG/L
5) L1 PCB1221{4}	2.45	33023	500.000 UG/L
6) L1 PCB1221{5}	2.98	12291	500.000 UG/L
Sum PCB1221		356365	2500.000 UG/L
Average PCB1221			500.000 UG/L

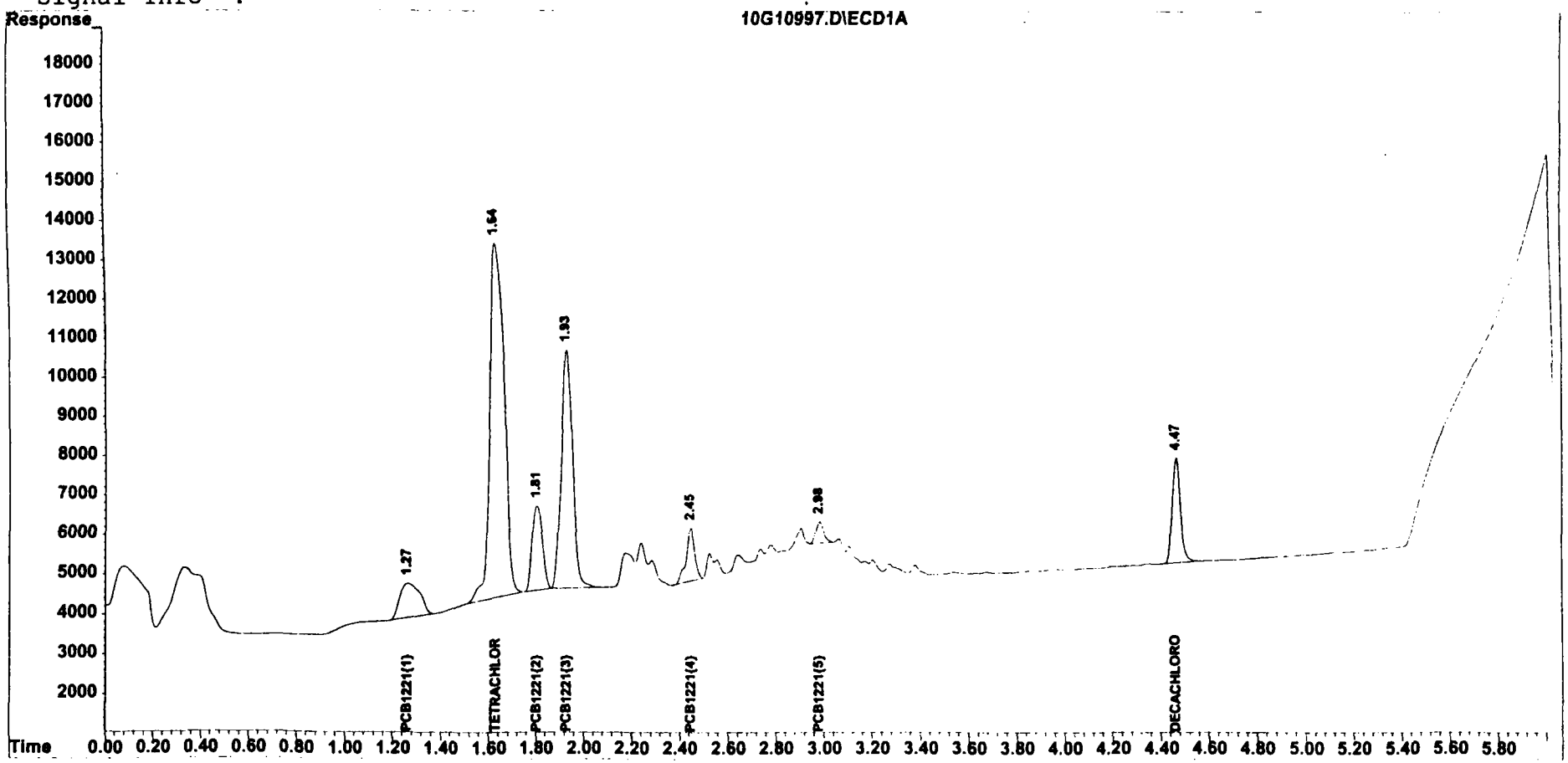
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G10997.D Vial: 16
Acq On : 17 Oct 2000 16:16 Operator: SMW
Sample : ICV 1221 0.5 PPM S49-04 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:49 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:26:34 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



66

Data File : C:\HPCHEM\2\DATA\101700\10G10998.D Vial: 17
Acq On : 17 Oct 2000 16:23 Operator: SMW
Sample : ICV 1232 0.5 PPM S49-31 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:50 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:28:34 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	334542	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	4.47	64990	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1232{1}	1.27	27711	500.000 UG/L
3) L1 PCB1232{2}	1.81	36890	500.000 UG/L
4) L1 PCB1232{3}	1.93	128956	500.000 UG/L
5) L1 PCB1232{4}	2.18	87511	500.000 UG/L
6) L1 PCB1232{5}	2.29	46075	500.000 UG/L
Sum PCB1232		327142	2500.000 UG/L
Average PCB1232			500.000 UG/L

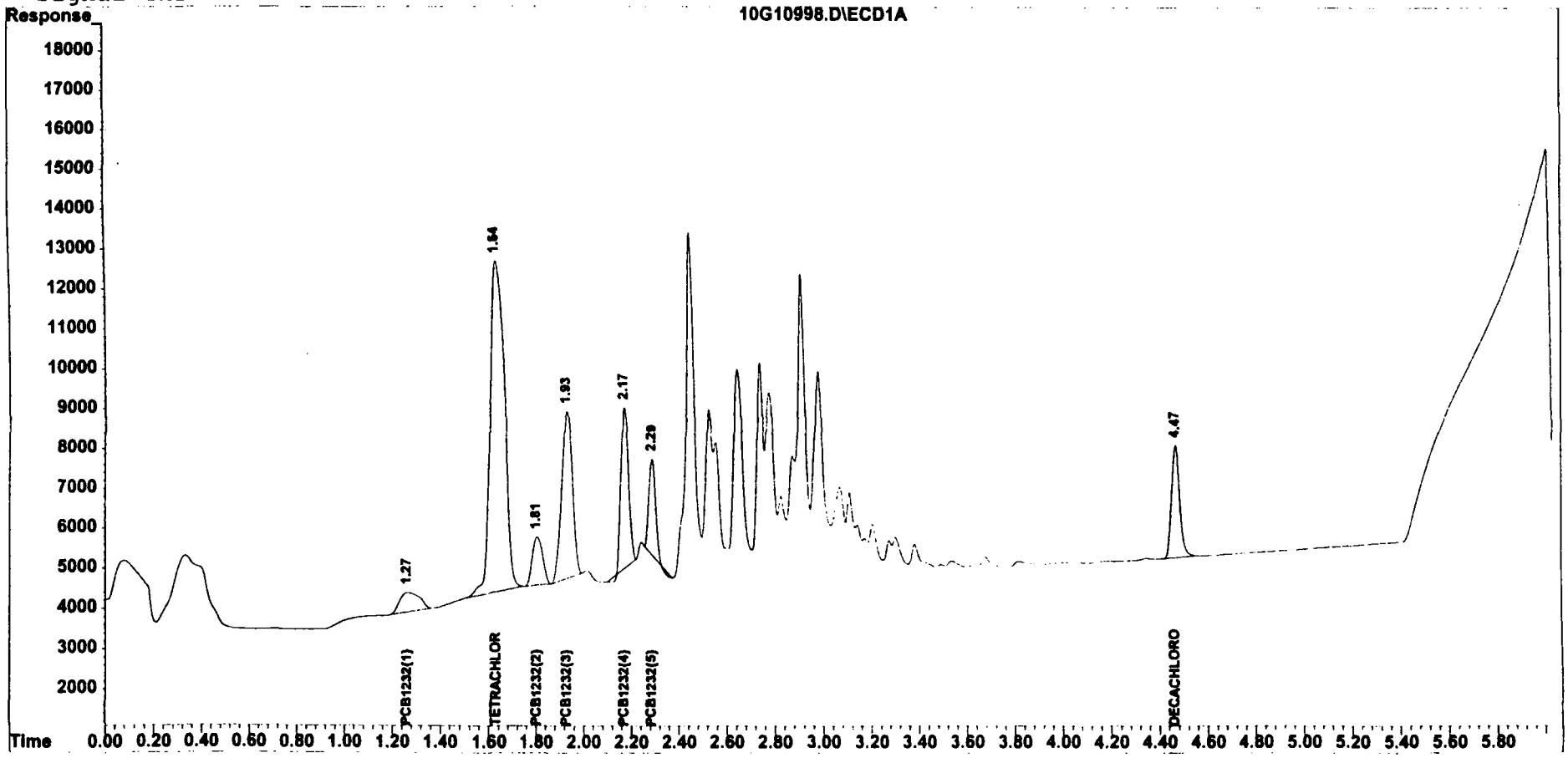
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantit on Report

Data File : C:\HPCHEM\2\DATA\101700\10G10998.D Vial: 17
Acq On : 17 Oct 2000 16:23 Operator: SMW
Sample : ICV 1232 0.5 PPM S49-31 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:50 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:28:34 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



101

Data File : C:\HPCHEM\2\DATA\101700\10G10999.D Vial: 18
Acq On : 17 Oct 2000 16:31 Operator: SMW
Sample : ICV 1242 0.5 PPM S49-50 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:52 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:04:20 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	320109	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	4.47	56656	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1242{1}	1.94	110209	500.000 UG/L
3) L1 PCB1242{2}	2.17	161786	500.000 UG/L
4) L1 PCB1242{3}	2.29	93708	500.000 UG/L
5) L1 PCB1242{4}	2.45	324063	500.000 UG/L
6) L1 PCB1242{5}	2.65	179536	500.000 UG/L
Sum PCB1242		869303	2500.000 UG/L
Average PCB1242			500.000 UG/L

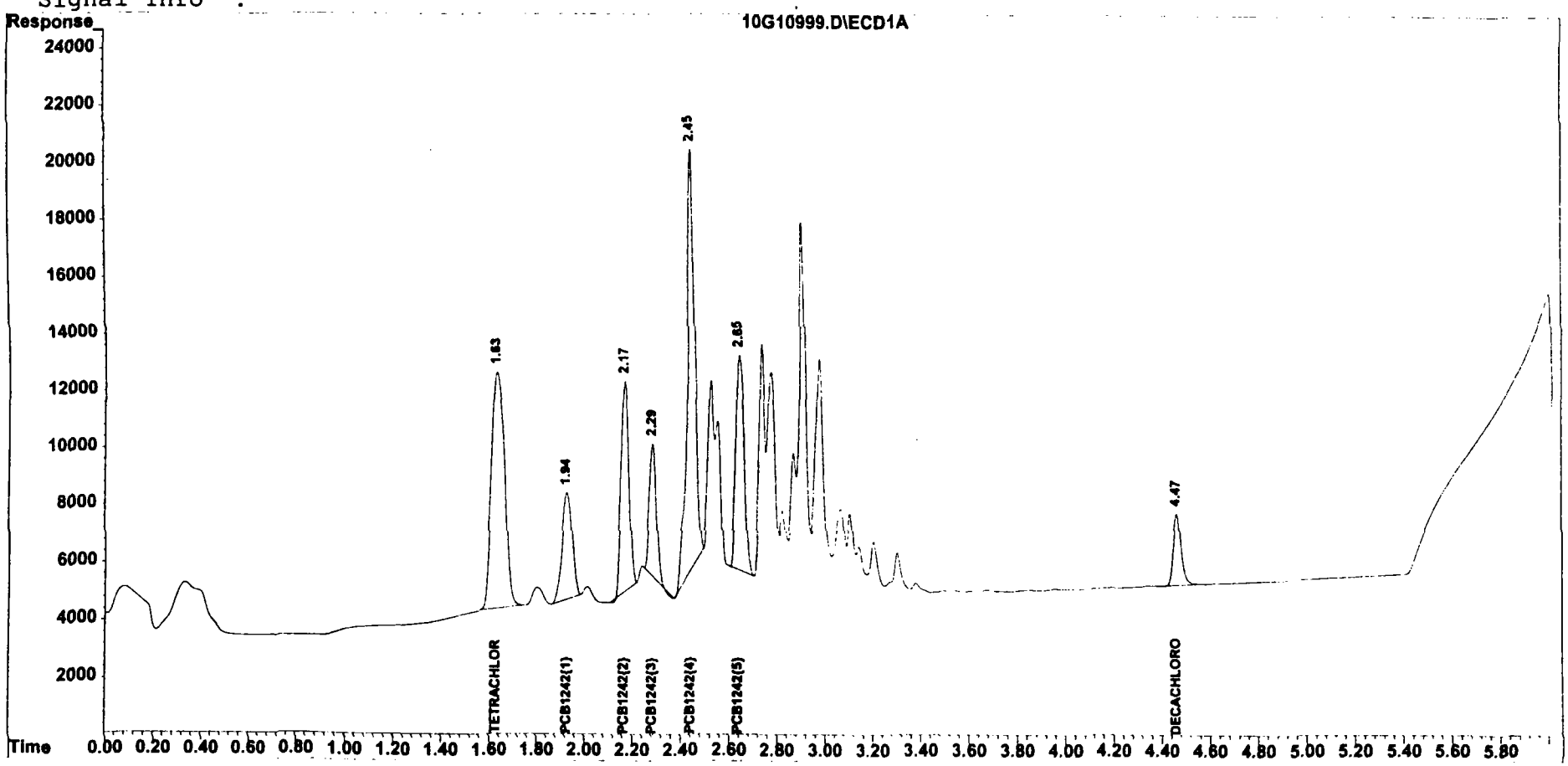
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantification Report

Data File : C:\HPCHEM\2\DATA\101700\10G10999.D Vial: 18
Acq On : 17 Oct 2000 16:31 Operator: SMW
Sample : ICV 1242 0.5 PPM S49-50 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:52 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:04:20 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



103

Data File : C:\HPCHEM\2\DATA\101700\10G11000.D Vial: 19
Acq On : 17 Oct 2000 16:39 Operator: SMW
Sample : ICV 1248 0.5 PPM S50-01 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:53 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:06:10 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.64	308470	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	4.47	56754	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1248{1}	2.17	88655	500.000 UG/L
3) L1 PCB1248{2}	2.45	238957	500.000 UG/L
4) L1 PCB1248{3}	2.65	287088	500.000 UG/L
5) L1 PCB1248{4}	2.91	231716	500.000 UG/L
6) L1 PCB1248{5}	2.98	237595	500.000 UG/L
Sum PCB1248		1084011	2500.000 UG/L
Average PCB1248			500.000 UG/L

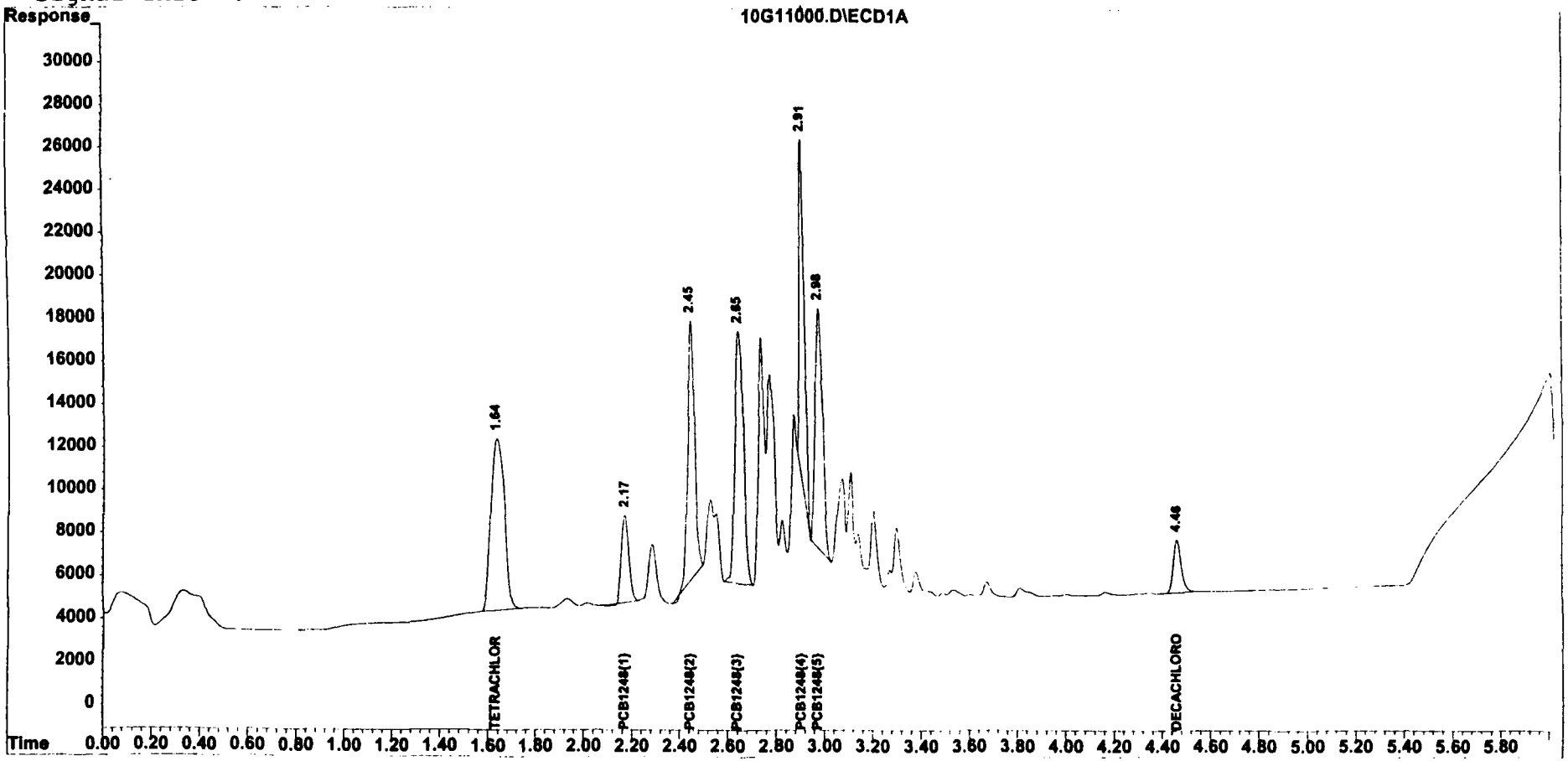
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G11000.D Vial: 19
Acq On : 17 Oct 2000 16:39 Operator: SMW
Sample : ICV 1248 0.5 PPM S50-01 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:53 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:06:10 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



105

Data File : C:\HPCHEM\2\DATA\101700\10G11001.D Vial: 20
Acq On : 17 Oct 2000 16:47 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:26:34 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	3.018	87.9#	12	0.01
2	L1	PCB1221{1}	500.000	487.978	2.4	98	0.00
3	L1	PCB1221{2}	500.000	485.673	2.9	97	0.00
4	L1	PCB1221{3}	500.000	477.147	4.6	95	0.00
5	L1	PCB1221{4}	500.000	486.332	2.7	97	0.00
6	L1	PCB1221{5}	500.000	487.641	2.5	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\101700\10G11001.D Vial: 20
Acq On : 17 Oct 2000 16:47 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:49 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:26:34 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.65	44231	3.018 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	15.09%
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1221{1}	1.27	47916	487.978 UG/L
3) L1 PCB1221{2}	1.81	63288	485.673 UG/L
4) L1 PCB1221{3}	1.93	187806	477.147 UG/L
5) L1 PCB1221{4}	2.45	32120	486.332 UG/L
6) L1 PCB1221{5}	2.98	11987	487.641 UG/L
Sum PCB1221		343116	2424.771 UG/L
Average PCB1221			484.954 UG/L

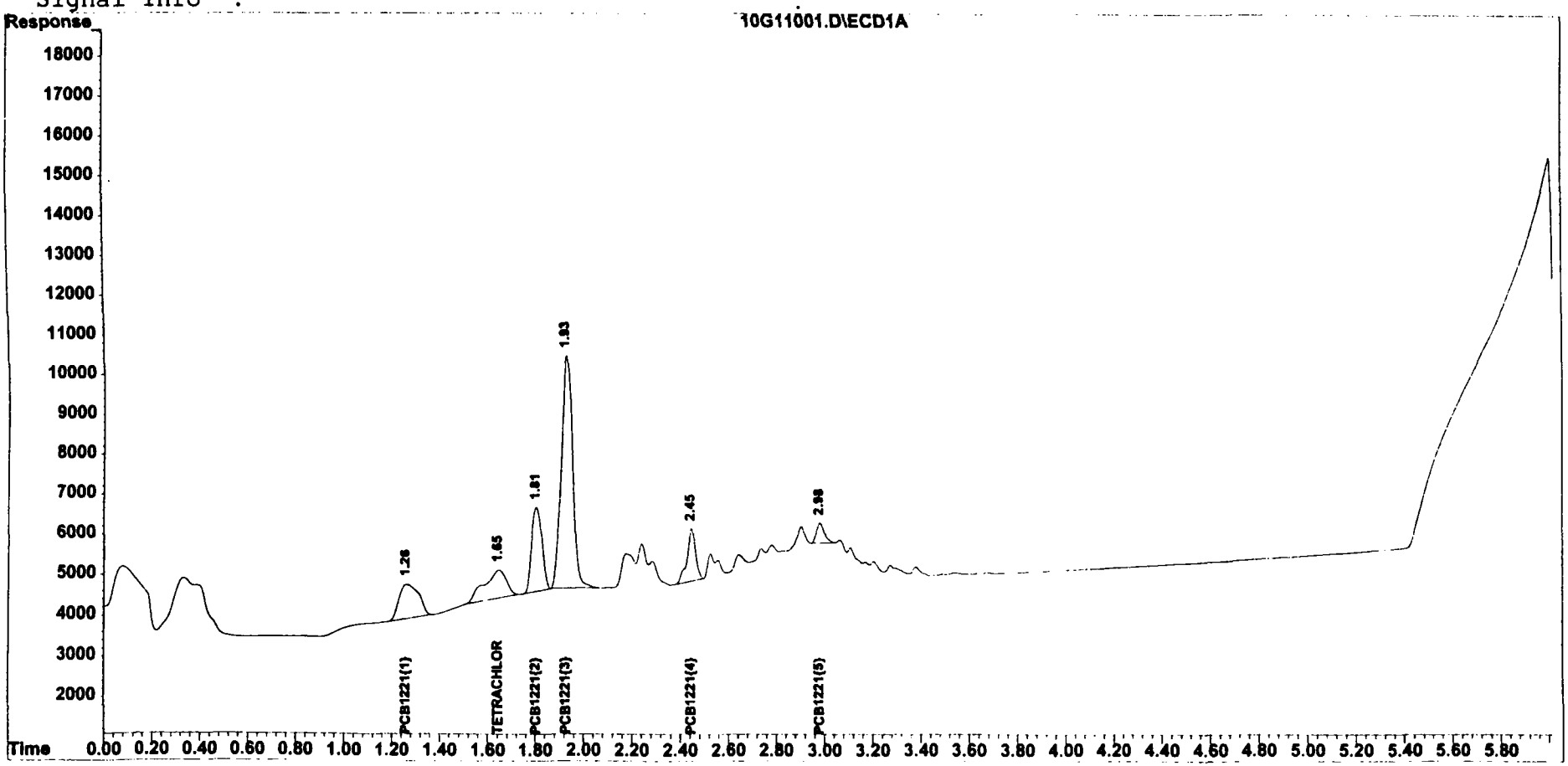
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G11001.D Vial: 20
Acq On : 17 Oct 2000 16:47 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:49 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:26:34 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\101700\10G11002.D Vial: 21
Acq On : 17 Oct 2000 16:55 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:28:34 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	2.554	89.8#	10	0.02
2	L1	PCB1232{1}	500.000	509.235	-1.8	102	0.00
3	L1	PCB1232{2}	500.000	641.958	-28.4#	128	0.00
4	L1	PCB1232{3}	500.000	602.437	-20.5#	120	0.00
5	L1	PCB1232{4}	500.000	518.076	-3.6	104	0.00
6	L1	PCB1232{5}	500.000	506.614	-1.3	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\101700\10G11002.D Vial: 21
Acq On : 17 Oct 2000 16:55 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:51 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:28:34 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.65	34183	2.554 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	12.77%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1232{1}	1.27	28223	509.235 UG/L
3) L1 PCB1232{2}	1.81	47364	641.958 UG/L
4) L1 PCB1232{3}	1.93	155375	602.437 UG/L
5) L1 PCB1232{4}	2.18	90674	518.076 UG/L
6) L1 PCB1232{5}	2.29	46684	506.614 UG/L
Sum PCB1232		368321	2778.319 UG/L
Average PCB1232			555.664 UG/L

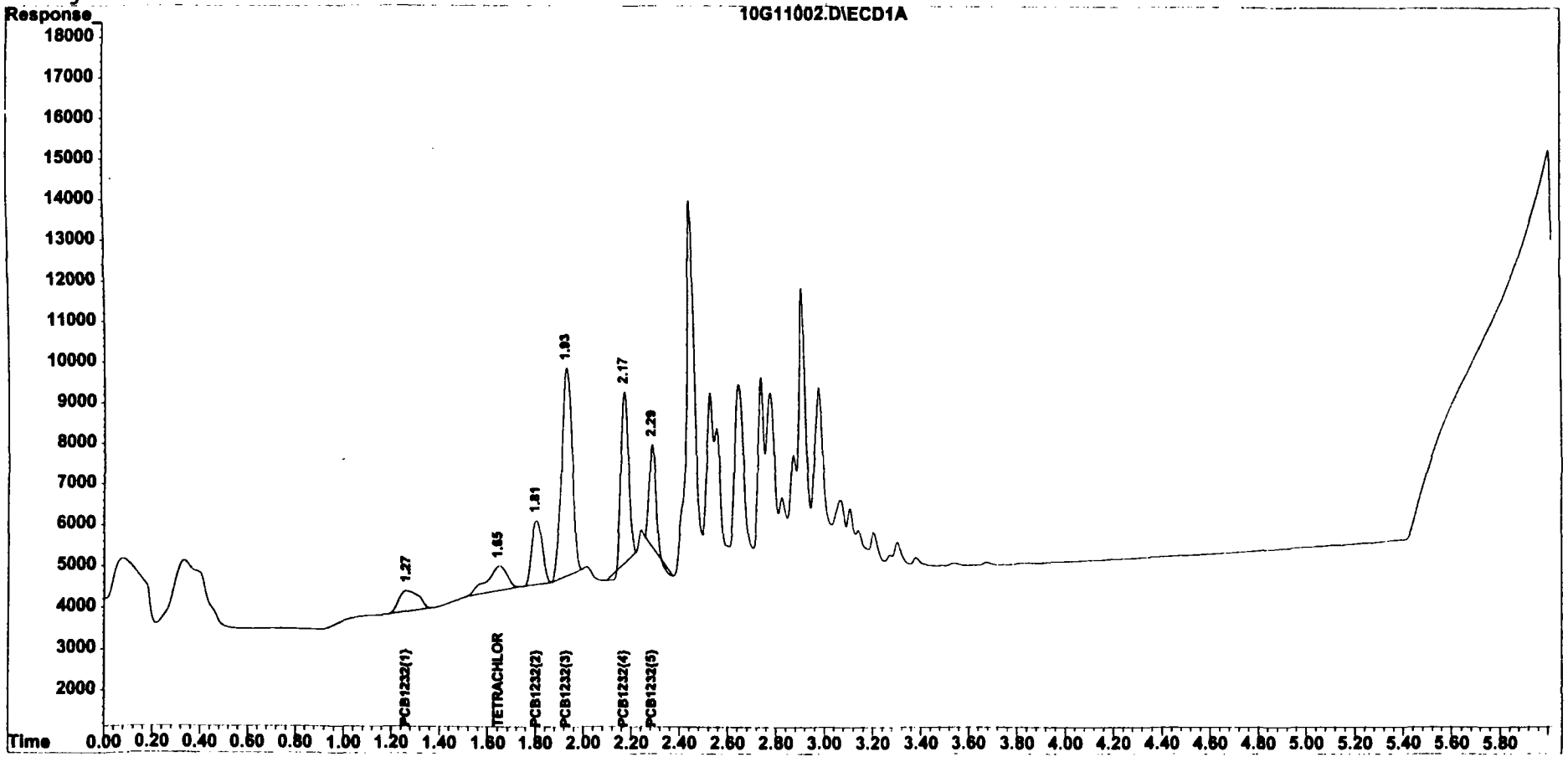
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G11002.D Vial: 21
Acq On : 17 Oct 2000 16:55 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:51 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 13 06:28:34 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\101700\10G11003.D Vial: 22
Acq On : 17 Oct 2000 17:03 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:04:20 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	1.026	95.9#	4	0.02
2	L1	PCB1242{1}	500.000	486.319	2.7	97	0.00
3	L1	PCB1242{2}	500.000	469.992	6.0	94	0.00
4	L1	PCB1242{3}	500.000	469.097	6.2	94	0.00
5	L1	PCB1242{4}	500.000	475.066	5.0	95	0.00
6	L1	PCB1242{5}	500.000	477.581	4.5	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\101700\10G11003.D Vial: 22
Acq On : 17 Oct 2000 17:03 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:52 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:04:20 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.65	13139	1.026 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	5.13%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1242{1}	1.94	107194	486.319 UG/L
3) L1 PCB1242{2}	2.17	152076	469.992 UG/L
4) L1 PCB1242{3}	2.29	87917	469.097 UG/L
5) L1 PCB1242{4}	2.45	307902	475.066 UG/L
6) L1 PCB1242{5}	2.65	171486	477.581 UG/L
Sum PCB1242		826575	2378.054 UG/L
Average PCB1242			475.611 UG/L

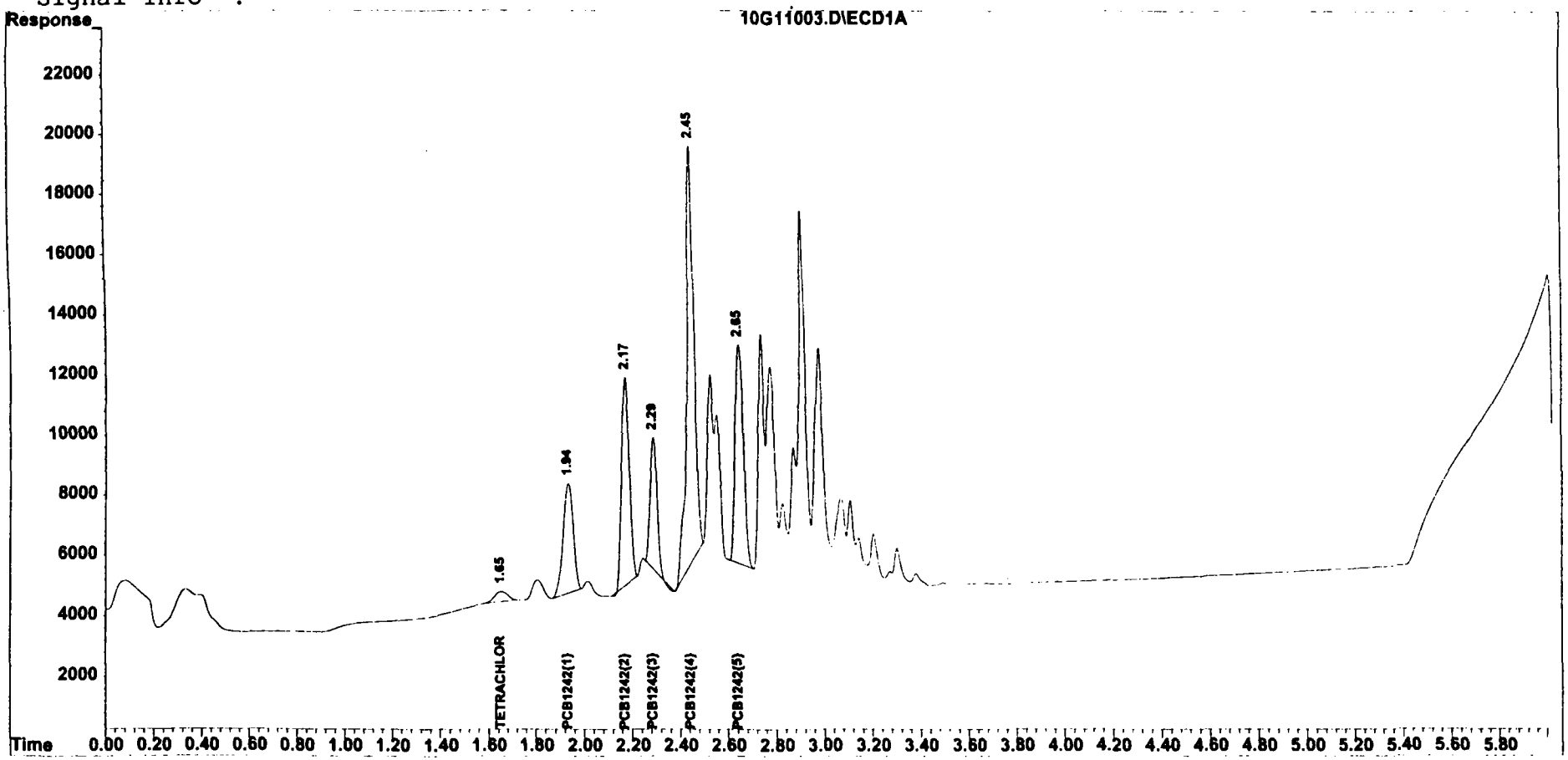
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G11003.D Vial: 22
Acq On : 17 Oct 2000 17:03 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:52 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:04:20 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\101700\10G11004.D Vial: 23
Acq On : 17 Oct 2000 17:10 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:06:10 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1248{1}	500.000	496.481	0.7	99	0.00
3 L1	PCB1248{2}	500.000	404.399	19.1#	81	0.00
4 L1	PCB1248{3}	500.000	494.078	1.2	99	0.00
5 L1	PCB1248{4}	500.000	508.335	-1.7	102	0.00
6 L1	PCB1248{5}	500.000	524.460	-4.9	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\101700\10G11004.D Vial: 23
Acq On : 17 Oct 2000 17:10 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:53 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:06:10 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1248{1}	2.17	88031	496.481 UG/L
3) L1 PCB1248{2}	2.45	193268	404.399 UG/L
4) L1 PCB1248{3}	2.64	283687	494.078 UG/L
5) L1 PCB1248{4}	2.91	235579	508.335 UG/L
6) L1 PCB1248{5}	2.98	249218	524.460 UG/L
Sum PCB1248		1049784	2427.754 UG/L
Average PCB1248			485.551 UG/L

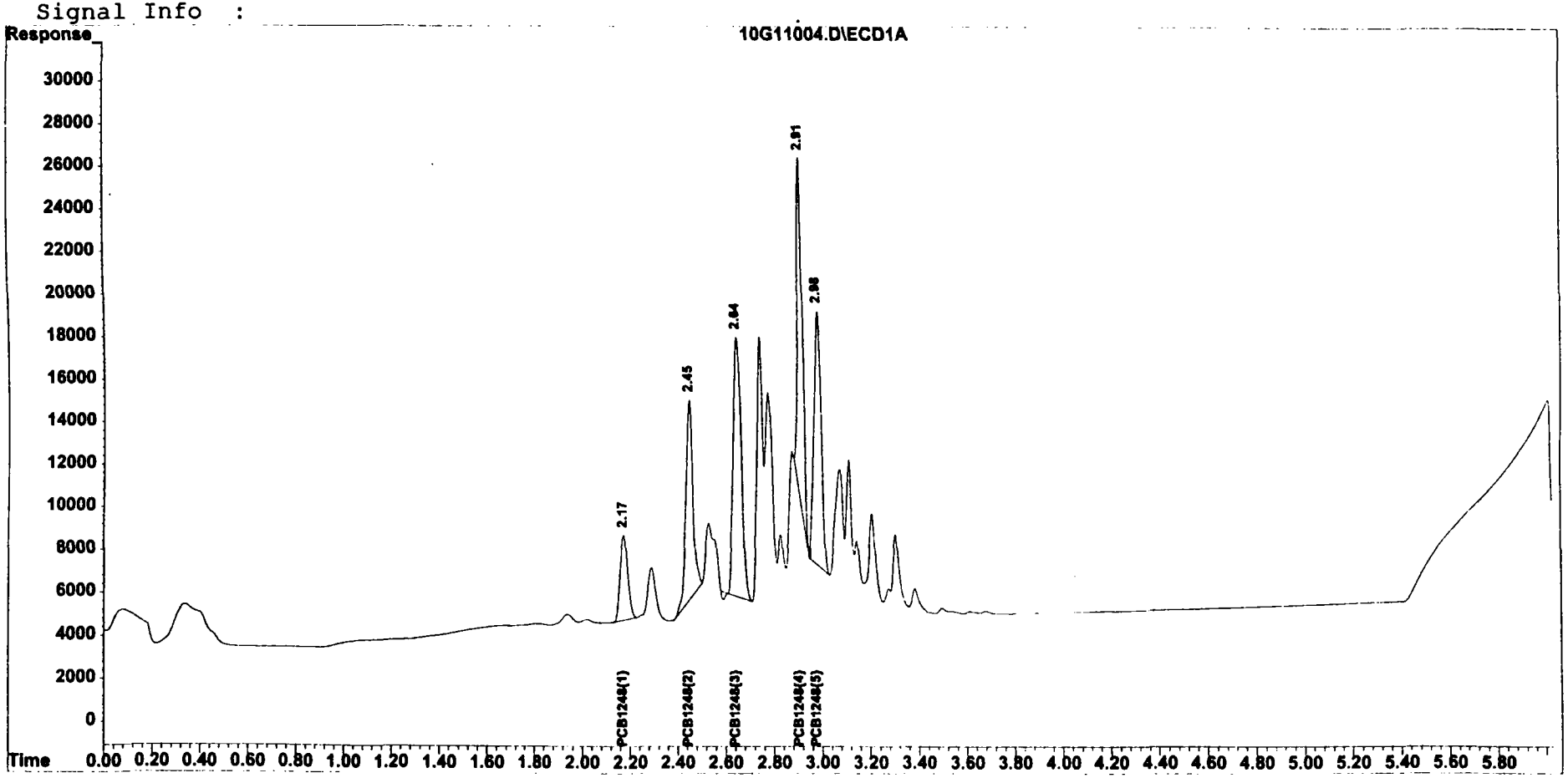
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\101700\10G11004.D Vial: 23
Acq On : 17 Oct 2000 17:10 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP10
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 18 7:53 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Wed Oct 11 07:06:10 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

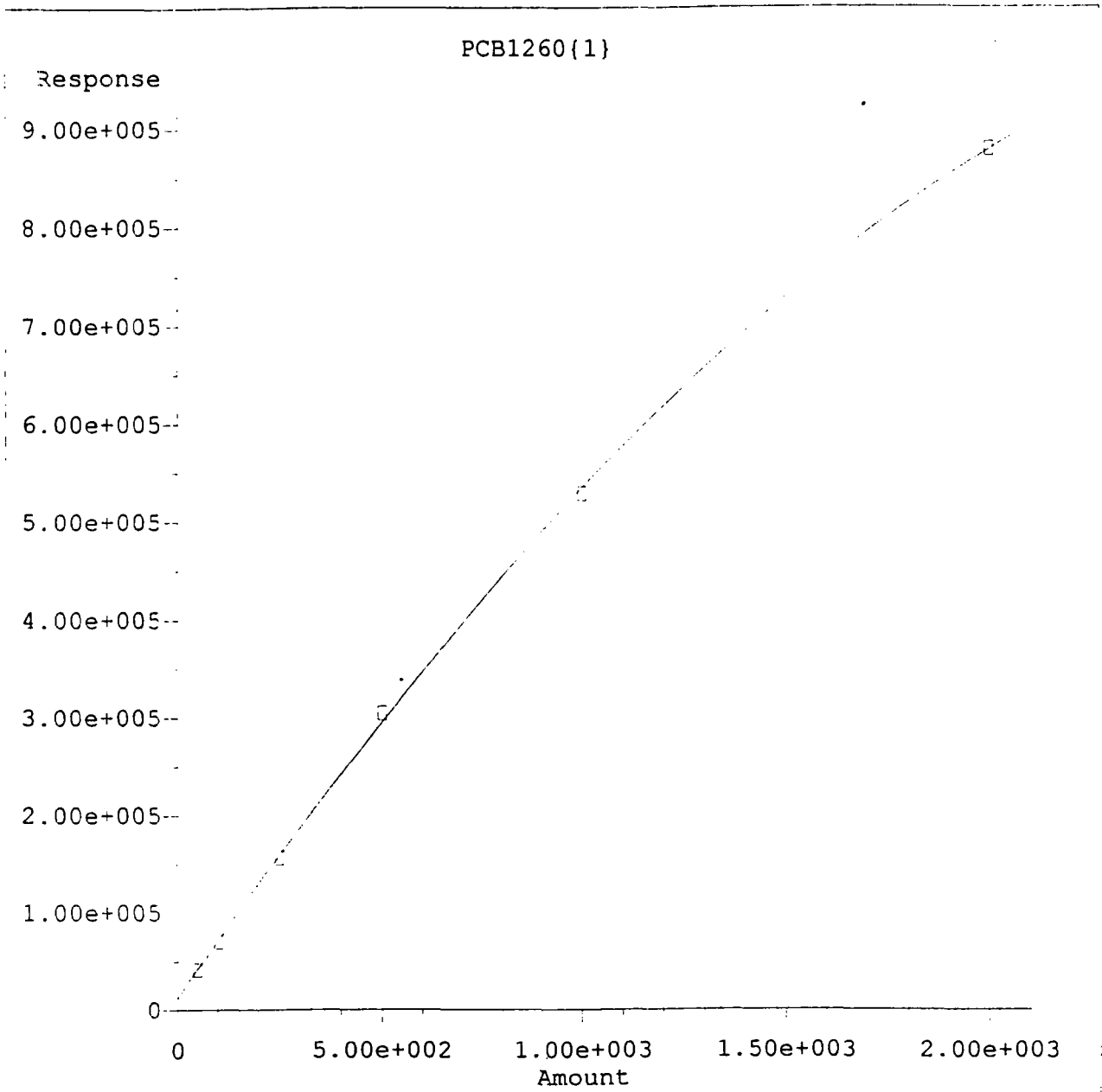
Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000

Calibration Files

50	=7G9265.D	100	=7G9264.D	250	=7G9263.D
500	=7G9262.D	1000	=7G9261.D	2000	=7G9260.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	9.282	8.674	8.369	9.063	8.649	7.839	8.646	E3	5.91
2)	L1	PCB1016{1}	2.683	2.395	2.233	2.266	2.030	1.715	2.220	E2	14.78
3)	L1	PCB1016{2}	5.327	4.721	4.281	4.262	3.376	3.198	4.194	E2	19.17
4)	L1	PCB1016{3}	1.157	1.020	0.927	0.929	0.824	0.699	0.926	E3	17.02
5)	L1	PCB1016{4}	4.594	4.101	3.756	3.812	3.426	2.922	3.769	E2	15.14
6)	L1	PCB1016{5}	3.090	2.517	2.557	2.616	2.355	2.013	2.525	E2	13.95
7)	L2	PCB1260{1}	8.185	7.051	6.251	6.088	5.284	4.400	6.210	E2	21.31
8)	L2	PCB1260{2}	8.709	7.634	6.992	7.042	6.276	5.334	6.998	E2	16.45
9)	L2	PCB1260{3}	1.096	0.969	0.977	0.985	0.864	0.746	0.939	E3	12.74
10)	L2	PCB1260{4}	1.411	1.187	1.109	1.139	1.031	0.886	1.127	E3	15.47
11)	L2	PCB1260{5}	3.693	3.273	3.169	3.356	3.081	2.700	3.212	E2	10.20
12)	S	DECACHLOROBIPHENYL	1.437	1.230	1.137	1.133	1.003	0.826	1.127	E4	18.32

(#) = Out of Range



R = -8.88e-002 A*A + 6.11e+002 A + 1.15e+004
Curve Fit: Quadratic

Method Name: C:\HPCHEM\1\METHODS\8082F.M
Calibration Table Last Updated: Fri Oct 20 09:22:31 2000

Data File : C:\HPCHEM\1\DATA\101900\7G9260.D Vial: 1
Acq On : 19 Oct 2000 12:47 Operator: SMW
Sample : ICV 1660 2.0 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:23 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	783917	90.667 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 453.34%#	
12) S DECACHLOROBIPHENYL	10.96	825525	73.224 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 366.12%#	
Target Compounds			
2) L1 PCB1016{1}	4.43	343095	1545.215 UG/L
3) L1 PCB1016{2}	5.20	639605	1525.037 UG/L
4) L1 PCB1016{3}	5.91	1397451	1509.229 UG/L
L1 PCB1016{4}	6.11	584462	1550.872 UG/L
L1 PCB1016{5}	7.27	402554	1594.515 UG/L
Sum PCB1016		3367165	7724.869 UG/L
Average PCB1016			1544.974 UG/L
7) L2 PCB1260{1}	8.43	879922	2003.385 UG/L
8) L2 PCB1260{2}	8.81	1066780	1524.436 UG/L
9) L2 PCB1260{3}	9.45	1492591	1588.784 UG/L
10) L2 PCB1260{4}	9.82	1771137	1571.481 UG/L
11) L2 PCB1260{5}	10.38	539997	1681.254 UG/L
Sum PCB1260		5750427	8369.340 UG/L
Average PCB1260			1673.868 UG/L

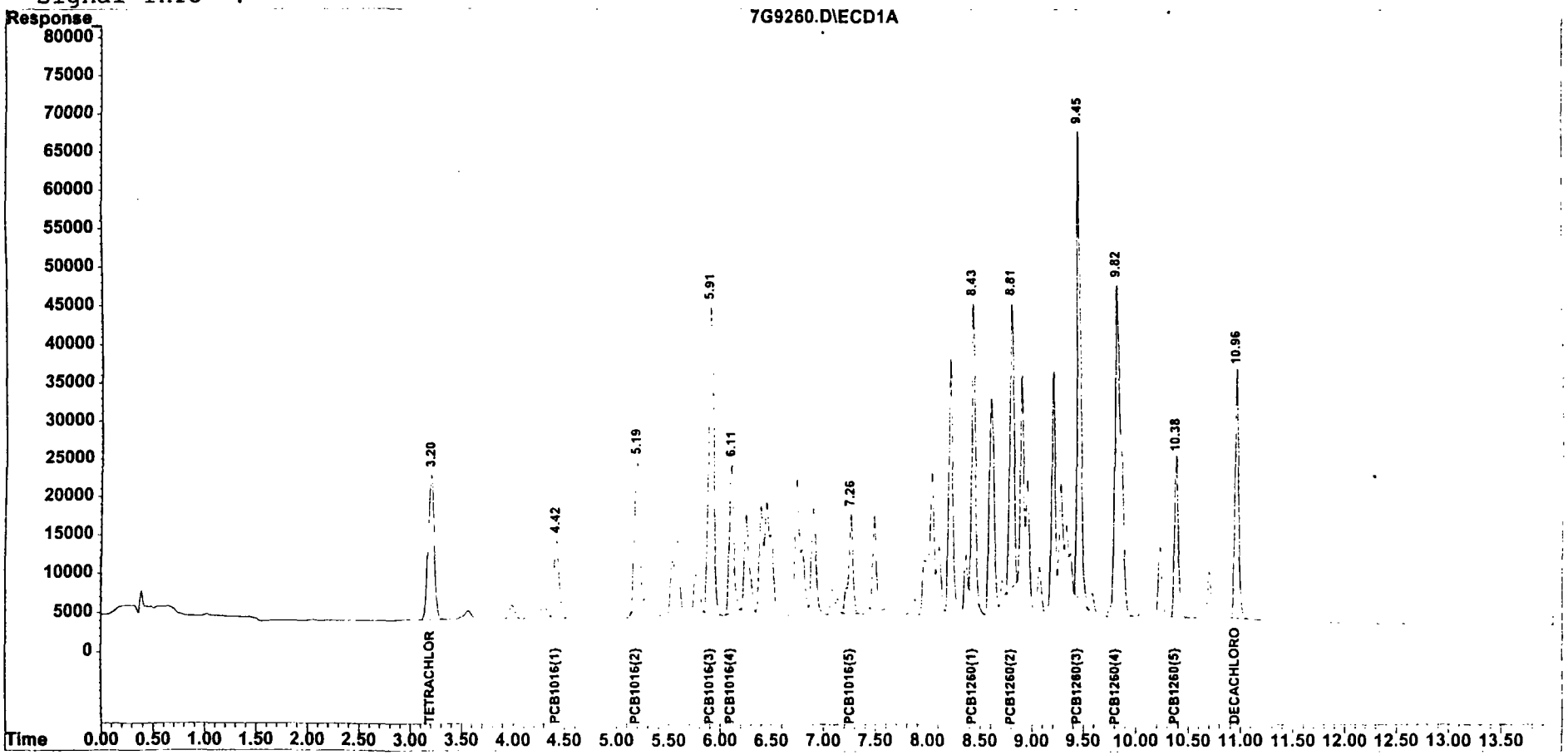
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9260.D 8082F.M Fri Oct 20 09:23:55 2000

Data File : C:\HPCHEM\1\DATA\101900\7G9260.D
Acq On : 19 Oct 2000 12:47
Sample : ICV 1660 2.0 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:23 2000 Quant Results File: 8082F.RES

Vial: 1
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9261.D Vial: 2
Acq On : 19 Oct 2000 13:06 Operator: SMW
Sample : ICV 1660 1.0 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:23 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

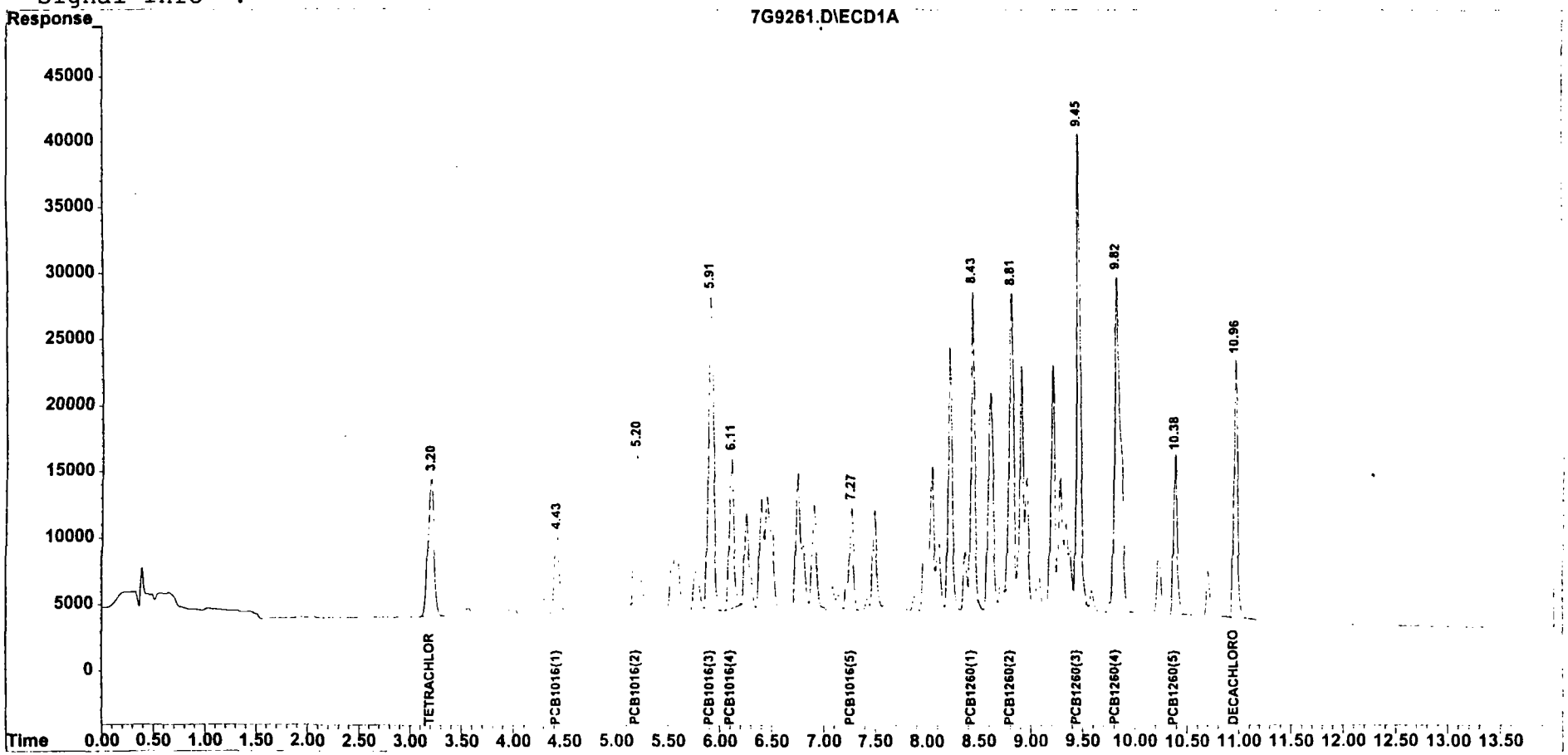
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	432471	50.019 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	250.10%#
12) S DECACHLOROBIPHENYL	10.96	501263	44.462 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	222.31%#
Target Compounds			
2) L1 PCB1016{1}	4.43	202967	914.113 UG/L
3) L1 PCB1016{2}	5.20	337619	805.001 UG/L
4) L1 PCB1016{3}	5.91	824359	890.298 UG/L
L1 PCB1016{4}	6.11	342629	909.169 UG/L
L1 PCB1016{5}	7.27	235520	932.896 UG/L
Sum PCB1016		1943096	4451.478 UG/L
Average PCB1016			890.296 UG/L
7) L2 PCB1260{1}	8.44	528425	987.009 UG/L
8) L2 PCB1260{2}	8.81	627556	896.782 UG/L
9) L2 PCB1260{3}	9.45	864241	919.938 UG/L
10) L2 PCB1260{4}	9.82	1031258	915.007 UG/L
11) L2 PCB1260{5}	10.38	308126	959.336 UG/L
Sum PCB1260		3359606	4678.072 UG/L
Average PCB1260			935.614 UG/L

Data File : C:\HPCHEM\1\DATA\101900\7G9261.D
Acq On : 19 Oct 2000 13:06
Sample : ICV 1660 1.0 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:23 2000 Quant Results File: 8082F.RES

Vial: 2
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\101900\7G9262.D Vial: 3
Acq On : 19 Oct 2000 13:25 Operator: SMW
Sample : ICV 1660 0.5 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:24 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	226565	26.204 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	131.02%
12) S DECACHLOROBIPHENYL	10.96	283250	25.124 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	125.62%
Target Compounds			
2) L1 PCB1016{1}	4.43	113319	510.361 UG/L
3) L1 PCB1016{2}	5.20	213082	508.061 UG/L
4) L1 PCB1016{3}	5.91	464302	501.441 UG/L
5) L1 PCB1016{4}	6.11	190616	505.800 UG/L
6) L1 PCB1016{5}	7.27	130788	518.051 UG/L
Sum PCB1016		1112107	2543.714 UG/L
Average PCB1016			508.743 UG/L
7) L2 PCB1260{1}	8.44	304408	518.095 UG/L
8) L2 PCB1260{2}	8.81	352095	503.146 UG/L
9) L2 PCB1260{3}	9.45	492329	524.058 UG/L
10) L2 PCB1260{4}	9.82	569439	505.248 UG/L
11) L2 PCB1260{5}	10.39	167778	522.369 UG/L
Sum PCB1260		1886050	2572.917 UG/L
Average PCB1260			514.583 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

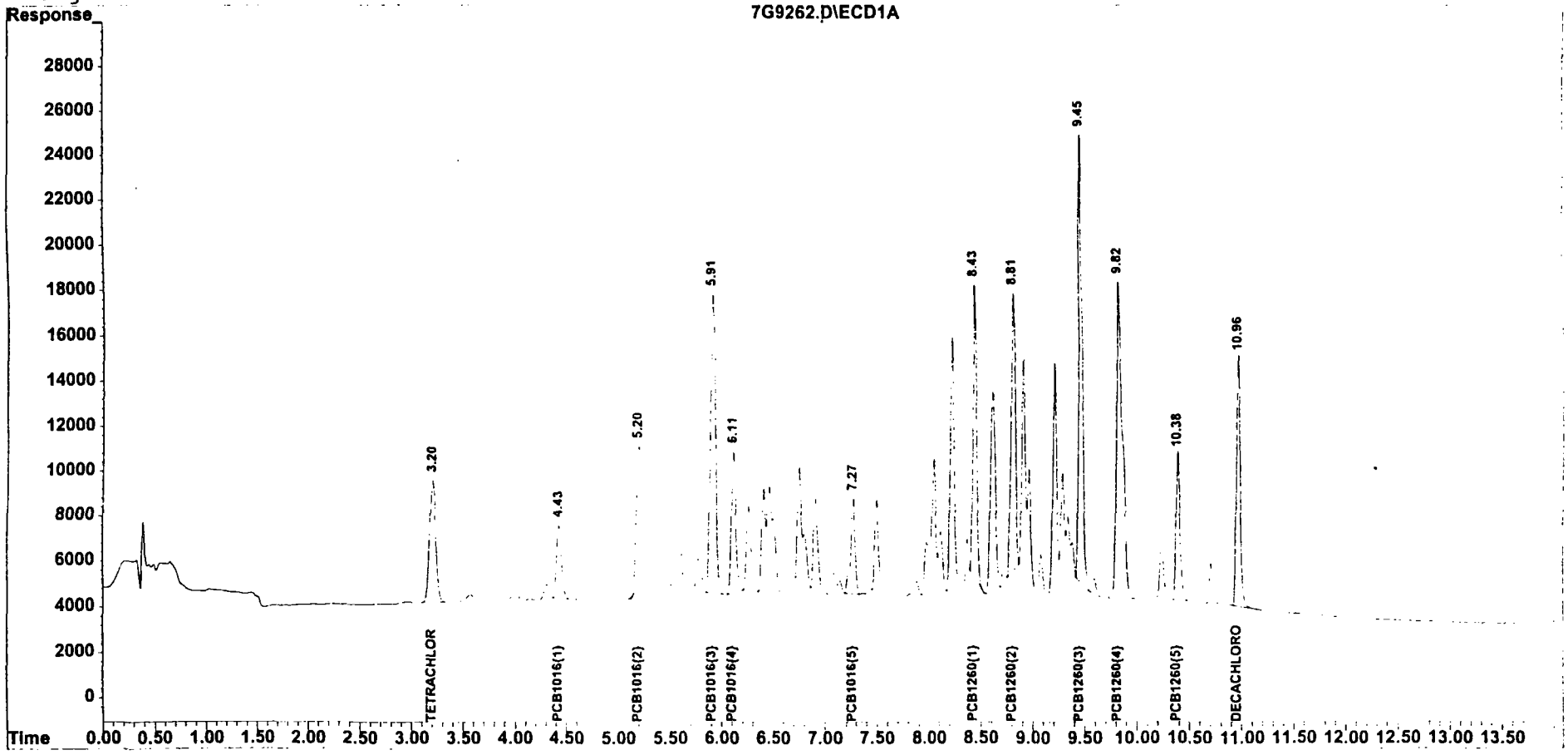
Quantitation Report

Data File : C:\HPCHEM\1\DATA\101900\7G9262.D
Acq On : 19 Oct 2000 13:25
Sample : ICV 1660 0.5 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:24 2000 Quant Results File: 8082F.RES

Vial: 3
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9263.D Vial: 4
Acq On : 19 Oct 2000 13:44 Operator: SMW
Sample : ICV 1660 0.25 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:24 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	104618	12.100 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.50%
12) S DECACHLOROBIPHENYL	10.96	142083	12.603 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	63.02%
Target Compounds			
2) L1 PCB1016{1}	4.43	55816	251.380 UG/L
3) L1 PCB1016{2}	5.20	107016	255.163 UG/L
4) L1 PCB1016{3}	5.91	231720	250.255 UG/L
5) L1 PCB1016{4}	6.11	93898	249.158 UG/L
6) L1 PCB1016{5}	7.27	63921	253.191 UG/L
Sum PCB1016		552370	1259.146 UG/L
Average PCB1016			251.829 UG/L
7) L2 PCB1260{1}	8.44	156271	245.573 UG/L
8) L2 PCB1260{2}	8.81	174812	249.807 UG/L
9) L2 PCB1260{3}	9.46	244289	260.033 UG/L
10) L2 PCB1260{4}	9.82	277274	246.018 UG/L
11) L2 PCB1260{5}	10.39	79222	246.655 UG/L
Sum PCB1260		931868	1248.085 UG/L
Average PCB1260			249.617 UG/L

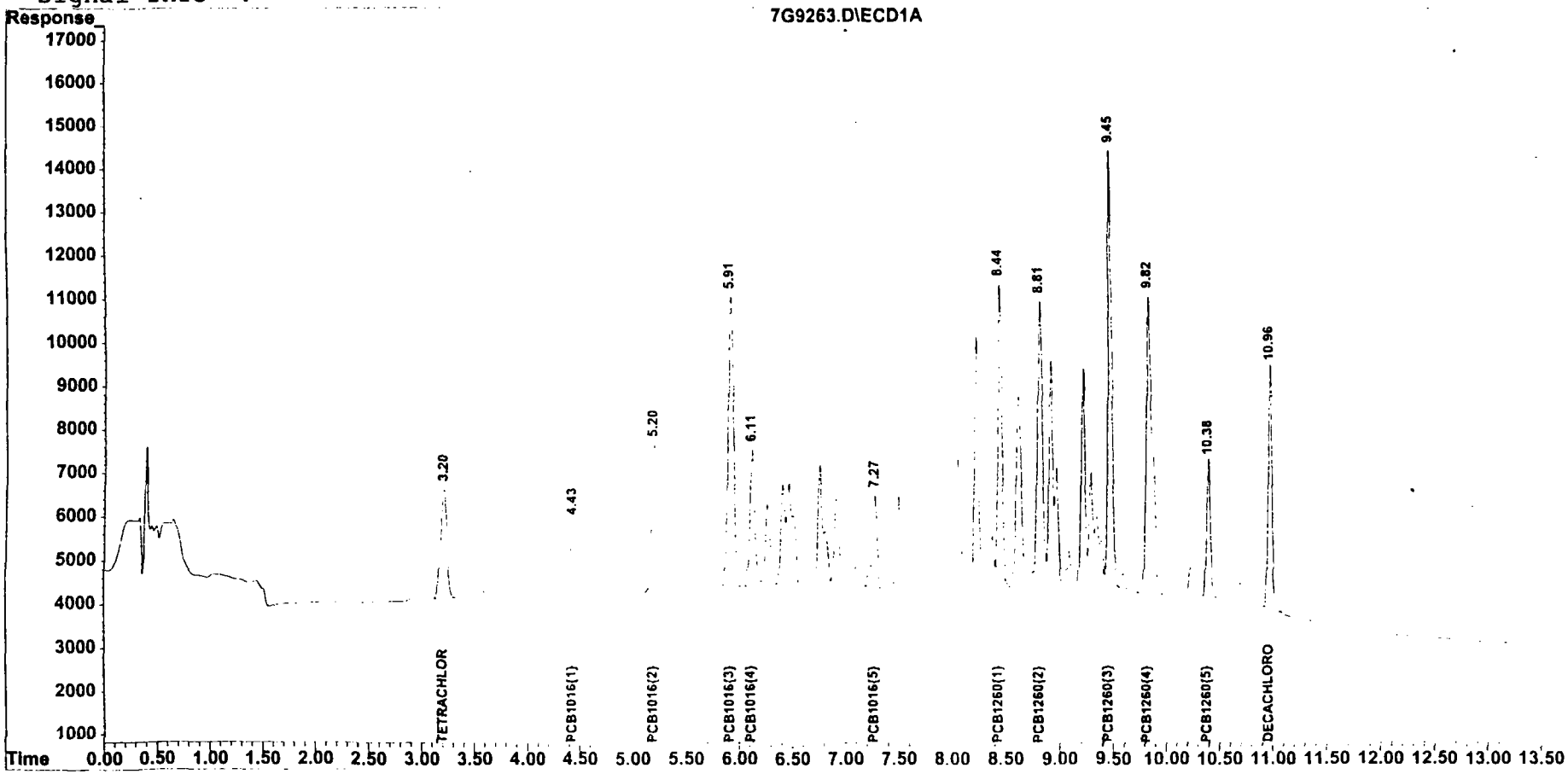
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9263.D
Acq On : 19 Oct 2000 13:44
Sample : ICV 1660 0.25 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:24 2000 Quant Results File: 8082F.RES

Vial: 4
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\1\DATA\101900\7G9264.D
Acq On : 19 Oct 2000 14:03
Sample : ICV 1660 0.1 PPM S50-23
Misc :
InstFile : EVENTS.E
Quant Time: Oct 20 9:21 2000 Quant Results File: 8082F.RES

Vial: 5
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/11/00
Last Update : Fri Oct 20 09:19:53 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	43371	5.016 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	25.08%
12) S DECACHLOROBIPHENYL	10.96	61477	5.453 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	27.27%
Target Compounds			
2) L1 PCB1016(1)	4.43	23947	107.850 UG/L
3) L1 PCB1016(2)	5.20	47211	109.007 UG/L
4) L1 PCB1016(3)	5.91	101994	110.152 UG/L
5) L1 PCB1016(4)	6.11	41011	108.823 UG/L
6) L1 PCB1016(5)	7.27	25171	99.704 UG/L
Sum PCB1016		239334	535.536 UG/L
Average PCB1016			107.107 UG/L
7) L2 PCB1260(1)	8.44	70510	97.937 UG/L
8) L2 PCB1260(2)	8.81	76343	109.095 UG/L
9) L2 PCB1260(3)	9.45	96878	103.122 UG/L
10) L2 PCB1260(4)	9.82	118665	105.288 UG/L
11) L2 PCB1260(5)	10.38	32725	101.889 UG/L
Sum PCB1260		395122	517.330 UG/L
Average PCB1260			103.466 UG/L

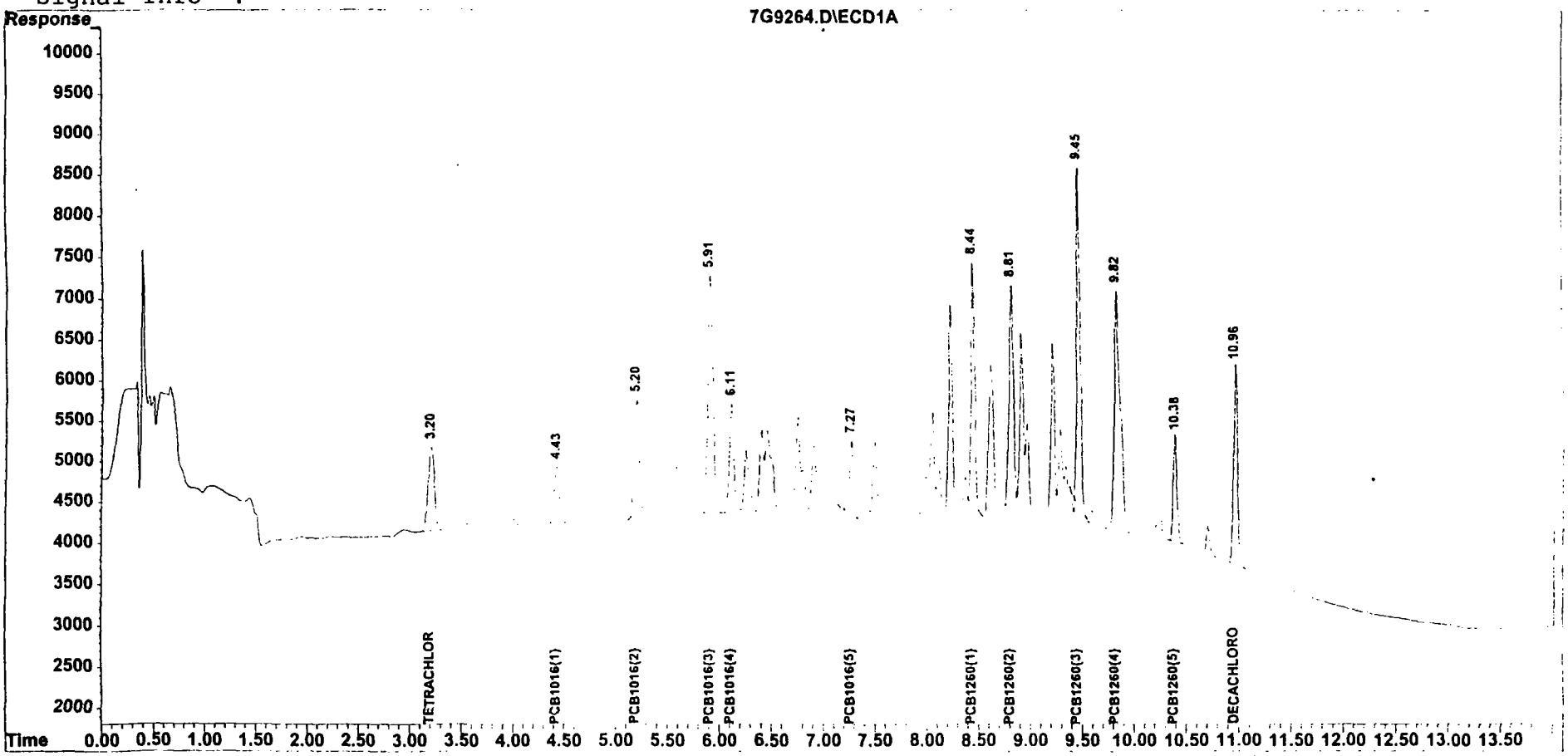
Quantitation Report

Data File : C:\HPCHEM\1\DATA\101900\7G9264.D
Acq On : 19 Oct 2000 14:03
Sample : ICV 1660 0.1 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:21 2000 Quant Results File: 8082F.RES

Vial: 5
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/11/00
Last Update : Fri Oct 20 09:19:53 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\1\DATA\101900\7G9265.D Vial: 6
Acq On : 19 Oct 2000 14:22 Operator: SMW
Sample : ICV 1660 0.05 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:20 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/11/00
Last Update : Fri Oct 20 09:19:53 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	23204	2.684 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	13.42%
12) S DECACHLOROBIPHENYL	10.96	35929	3.187 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	15.94%#
Target Compounds			
2) L1 PCB1016 [1]	4.43	13417	63.057 UG/L
3) L1 PCB1016 [2]	5.20	26633	61.493 UG/L
4) L1 PCB1016 [3]	5.91	57855	62.483 UG/L
5) L1 PCB1016 [4]	6.11	22968	60.947 UG/L
6) L1 PCB1016 [5]	7.27	15450	61.197 UG/L
Sum PCB1016		136324	309.177 UG/L
Average PCB1016			61.835 UG/L
7) L2 PCB1260 [1]	8.44	40926	48.497 UG/L
8) L2 PCB1260 [2]	8.81	43545	62.227 UG/L
9) L2 PCB1260 [3]	9.46	54780	58.310 UG/L
10) L2 PCB1260 [4]	9.82	70542	62.590 UG/L
11) L2 PCB1260 [5]	10.38	18465	57.490 UG/L
Sum PCB1260		228258	289.113 UG/L
Average PCB1260			57.823 UG/L

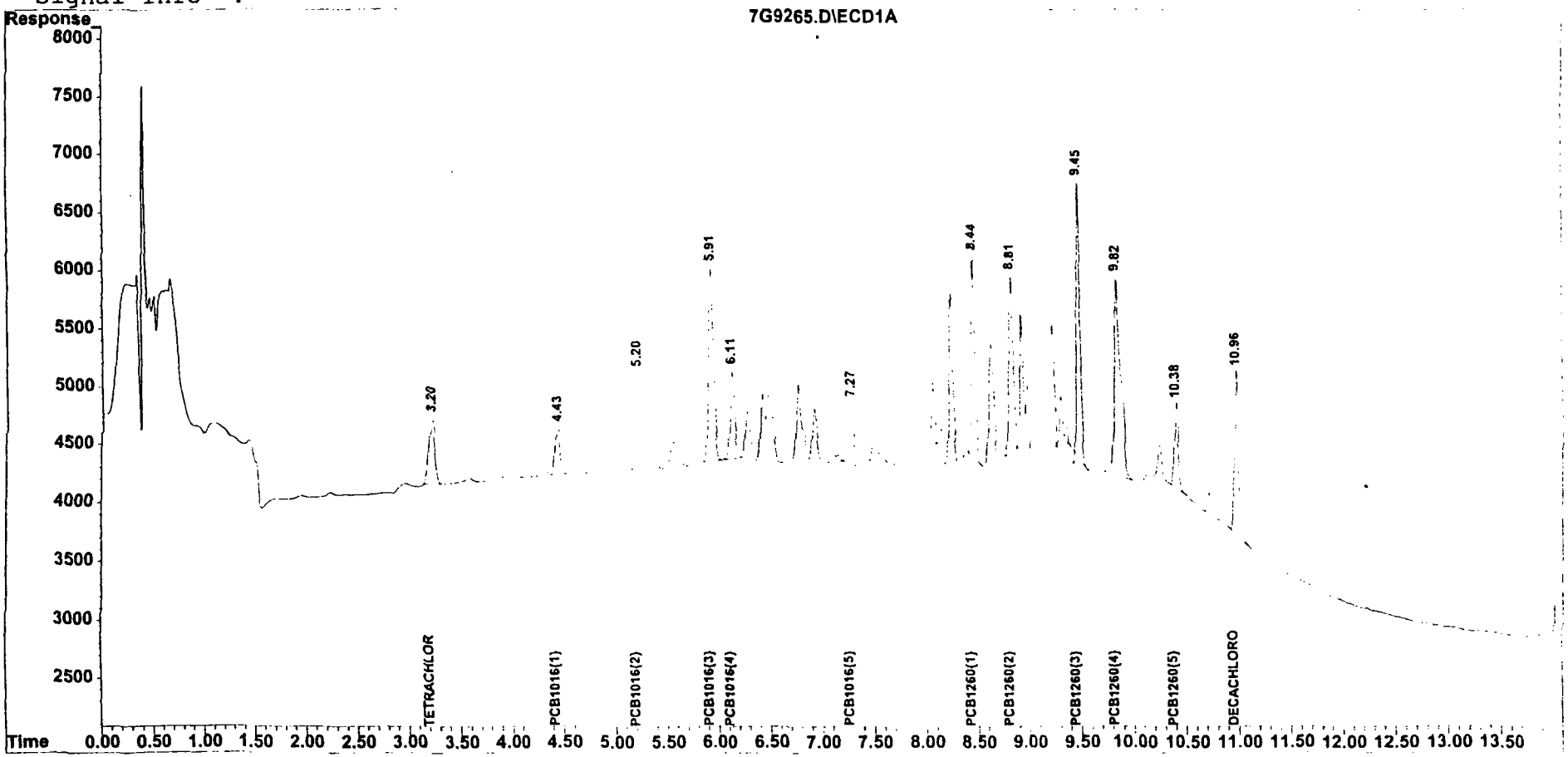
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9265.D
Acq On : 19 Oct 2000 14:22
Sample : ICV 1660 0.05 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:20 2000 Quant Results File: 8082F.RES

Vial: 6
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/11/00
Last Update : Fri Oct 20 09:19:53 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\1\DATA\101900\7G9266.D Vial: 7
Acq On : 19 Oct 2000 14:40 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
`File : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1016{1}	500.000	478.830	4.2	94	0.00
3	L1	PCB1016{2}	500.000	483.571	3.3	95	0.00
4	L1	PCB1016{3}	500.000	472.869	5.4	94	0.00
5	L1	PCB1016{4}	500.000	477.141	4.6	94	0.00
6	L1	PCB1016{5}	500.000	546.297	-9.3	105	0.00
7	L2	PCB1260{1}	500.000	491.450	1.7	95	0.00
8	L2	PCB1260{2}	500.000	518.608	-3.7	103	0.00
9	L2	PCB1260{3}	500.000	455.778	8.8	87	0.00
10	L2	PCB1260{4}	500.000	425.416	14.9	84	0.00
11	L2	PCB1260{5}	500.000	404.440	19.1#	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\101900\7G9266.D Vial: 7
Acq On : 19 Oct 2000 14:40 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:23 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
12) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1016{1}	4.43	106318	478.830 UG/L
3) L1 PCB1016{2}	5.20	202811	483.571 UG/L
4) L1 PCB1016{3}	5.91	437847	472.869 UG/L
5) L1 PCB1016{4}	6.11	179815	477.141 UG/L
6) L1 PCB1016{5}	7.27	137919	546.297 UG/L
Sum PCB1016		1064710	2458.708 UG/L
Average PCB1016			491.742 UG/L
7) L2 PCB1260{1}	8.44	290506	491.450 UG/L
8) L2 PCB1260{2}	8.81	362915	518.608 UG/L
9) L2 PCB1260{3}	9.45	428183	455.778 UG/L
10) L2 PCB1260{4}	9.82	479465	425.416 UG/L
11) L2 PCB1260{5}	10.38	129901	404.440 UG/L
Sum PCB1260		1690972	2295.694 UG/L
Average PCB1260			459.139 UG/L

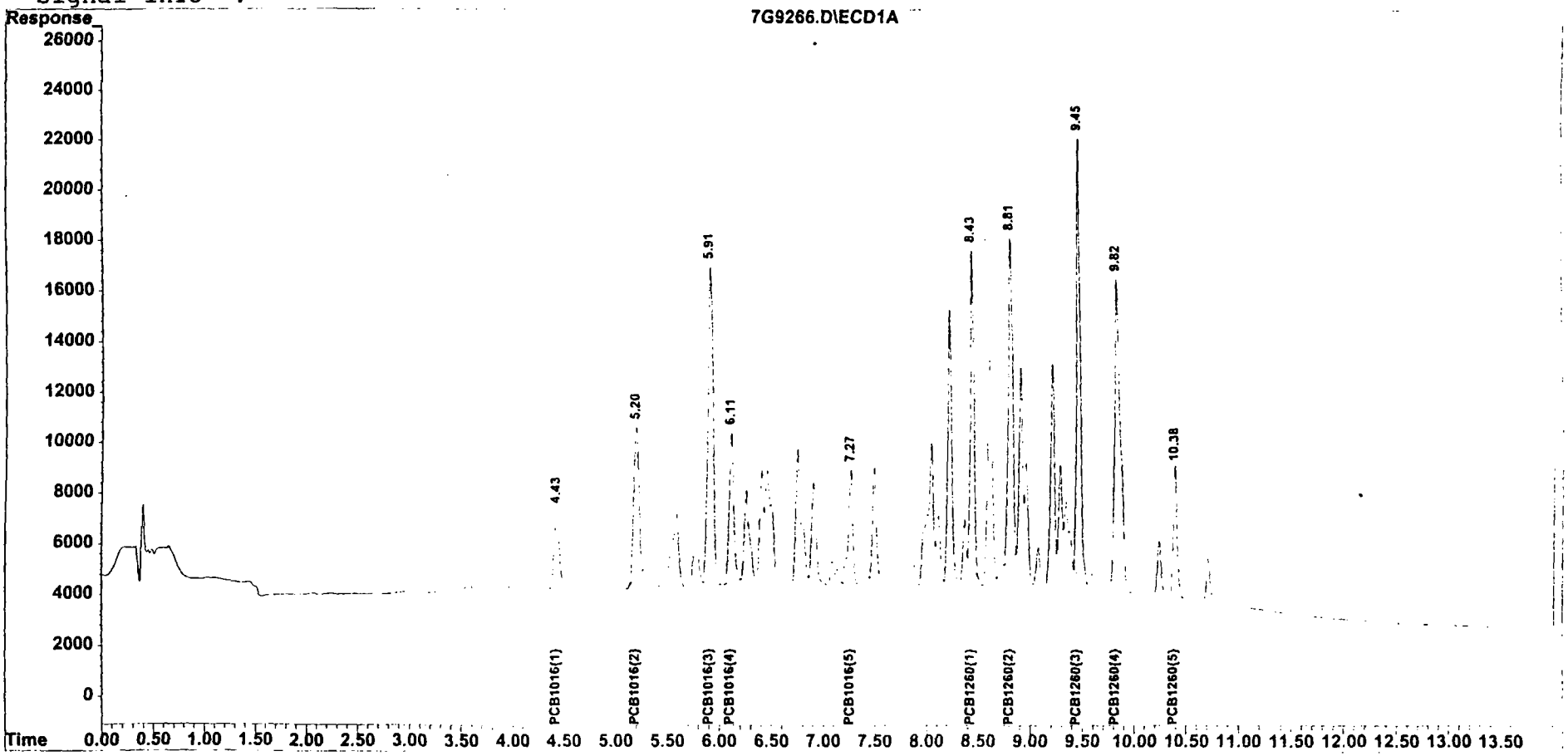
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9266.D
Acq On : 19 Oct 2000 14:40
Sample : ALT 1660 0.5 PPM S48-12
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:23 2000 Quant Results File: 8082F.RES

Vial: 7
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000

Calibration Files
50 =7G9272.D 100 =7G9271.D 250 =7G9270.D
500 =7G9269.D 1000 =7G9268.D 2000 =7G9267.D.

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	7.852	7.620	8.004	7.652	7.124	7.607	7.643	E3	3.90
2)	L1	PCB1254{1}	3.691	3.467	3.516	3.134	2.721	2.700	3.205	E2	13.21
3)	L1	PCB1254{2}	4.198	3.945	3.753	3.225	2.719	2.613	3.409	E2	19.33
4)	L1	PCB1254{3}	5.932	5.692	5.682	5.995	5.220	4.290	5.468	E2	11.67
5)	L1	PCB1254{4}	6.642	6.328	6.424	5.748	5.011	5.012	5.861	E2	12.31
6)	L1	PCB1254{5}	1.808	1.782	1.867	1.719	1.561	1.629	1.728	E2	6.66
7)	S	DECACHLOROBIPHENYL	1.083	0.904	0.965	0.662	0.768	0.753	0.856	E4	18.21

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\101900\7G9267.D Vial: 8
Acq On : 19 Oct 2000 14:59 Operator: SMW
Sample : ICV 1254 2.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:25 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	760672	99.525 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	497.63%#
7) S DECACHLOROBIPHENYL	10.96	753399	88.012 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	440.06%#
Target Compounds			
2) L1 PCB1254{1}	6.40	540021	1685.053 UG/L
3) L1 PCB1254{2}	7.49	522640	2007.851 UG/L
4) L1 PCB1254{3}	8.00	858025	1569.057 UG/L
5) L1 PCB1254{4}	8.81	1002470	1710.490 UG/L
6) L1 PCB1254{5}	9.18	325833	1885.958 UG/L
Sum PCB1254		3248989	8858.408 UG/L
Average PCB1254			1771.682 UG/L

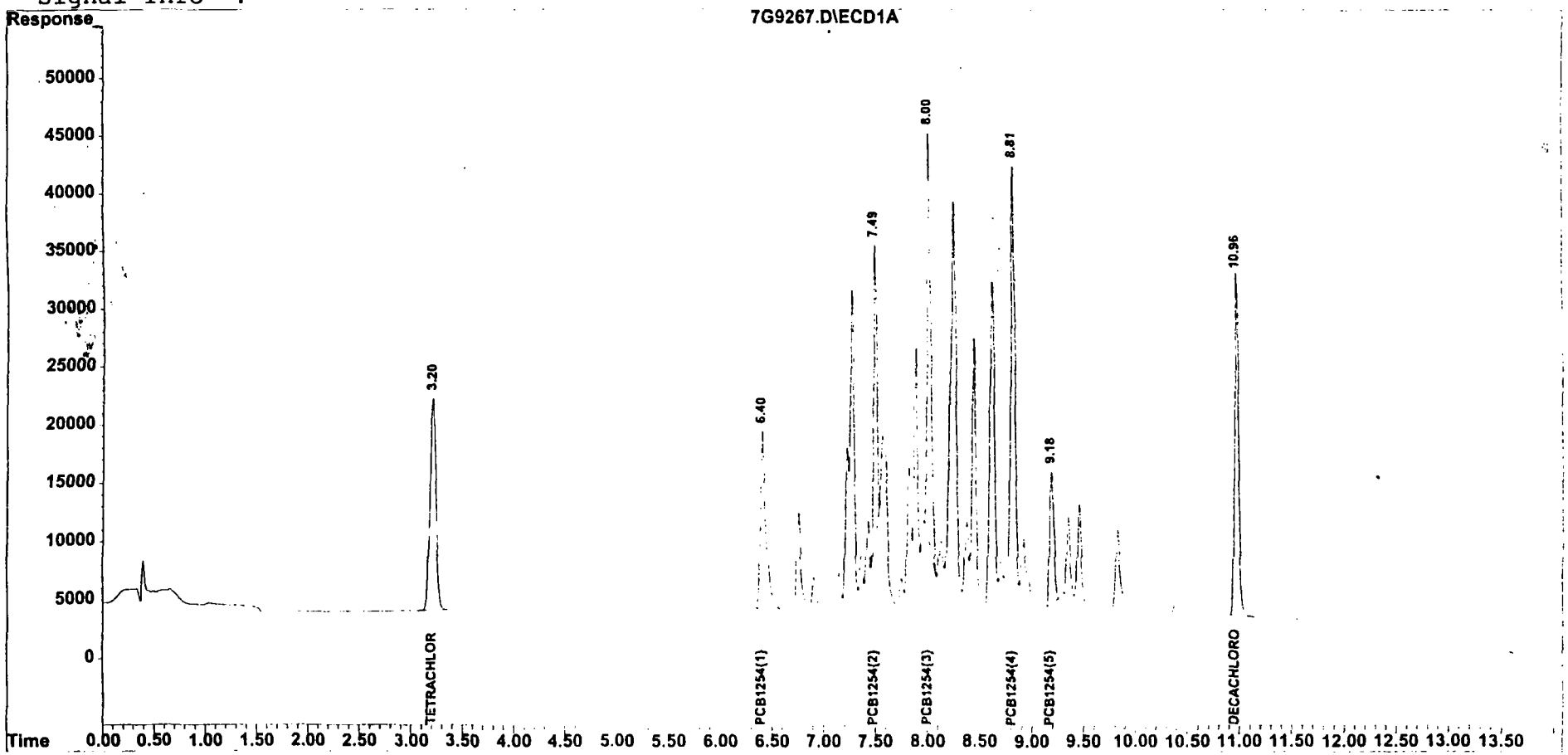
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9267.D
Acq On : 19 Oct 2000 14:59
Sample : ICV 1254 2.0 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:25 2000 Quant Results File: 1254FCG.RES

Vial: 8
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



137

Data File : C:\HPCHEM\1\DATA\101900\7G9268.D
Acq On : 19 Oct 2000 15:18
Sample : ICV 1254 1.0 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Vial: 9
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	356202	46.605 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	233.03%#
7) S DECACHLOROBIPHENYL	10.96	384111	44.872 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	224.36%#
Target Compounds			
2) L1 PCB1254{1}	6.40	272078	848.978 UG/L
3) L1 PCB1254{2}	7.49	271877	960.640 UG/L
L1 PCB1254{3}	8.01	521980	954.538 UG/L
L1 PCB1254{4}	8.81	501063	854.952 UG/L
6) L1 PCB1254{5}	9.18	156098	903.511 UG/L
Sum PCB1254		1723096	4522.618 UG/L
Average PCB1254			904.524 UG/L

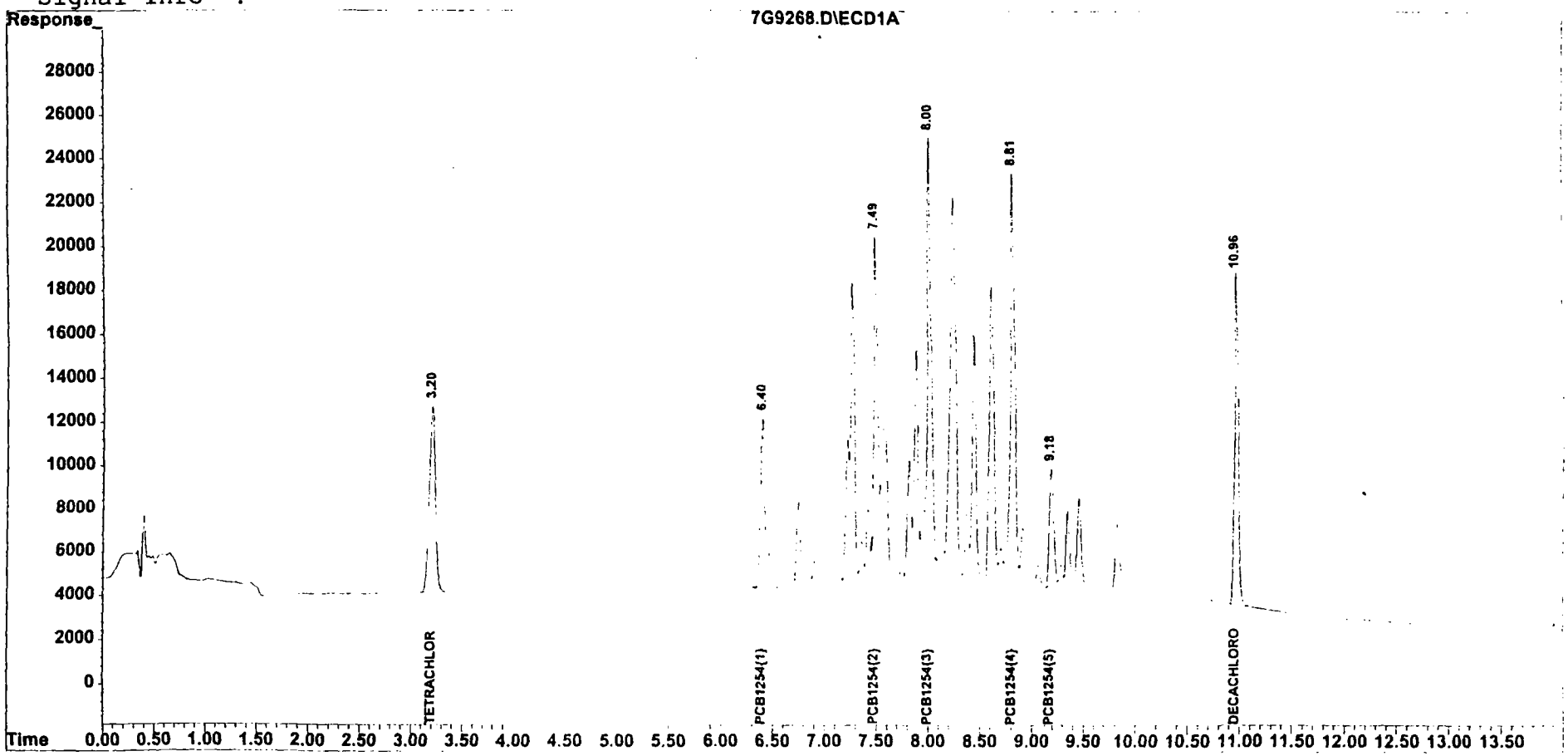
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9268.D
Acq On : 19 Oct 2000 15:18
Sample : ICV 1254 1.0 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Vial: 9
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\1\DATA\101900\7G9269.D Vial: 10
Acq On : 19 Oct 2000 15:37 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	191297	25.029 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	125.15%
7) S DECACHLOROBIPHENYL	10.96	165593	19.345 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	96.72%
Target Compounds			
2) L1 PCB1254{1}	6.40	156686	488.914 UG/L
3) L1 PCB1254{2}	7.49	161268	535.518 UG/L
4) L1 PCB1254{3}	8.01	299730	548.111 UG/L
5) L1 PCB1254{4}	8.81	287389	490.365 UG/L
6) L1 PCB1254{5}	9.18	85974	497.625 UG/L
Sum PCB1254		991047	2560.534 UG/L
Average PCB1254			512.107 UG/L

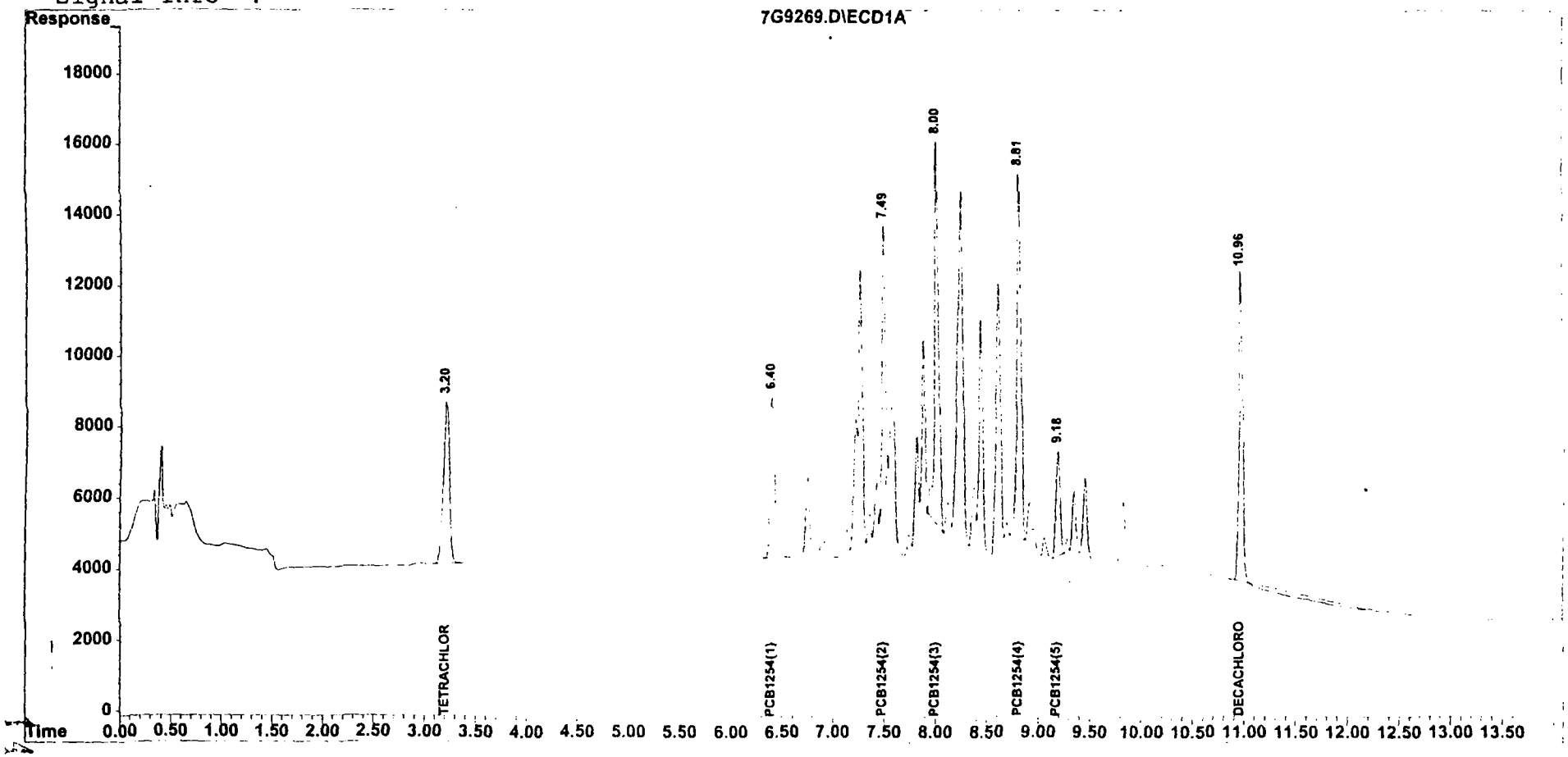
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9269.D
Acq On : 19 Oct 2000 15:37
Sample : ICV 1254 0.5 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Vial: 10
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

Data File : C:\HPCHEM\1\DATA\101900\7G9270.D Vial: 11
Acq On : 19 Oct 2000 15:56 Operator: SMW
Sample : ICV 1254 0.25 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	100046	13.090 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	65.45%
7) S DECACHLOROBIPHENYL	10.96	120627	14.092 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	70.46%
Target Compounds			
2) L1 PCB1254{1}	6.40	87902	274.285 UG/L
3) L1 PCB1254{2}	7.49	93833	285.465 UG/L
L1 PCB1254{3}	8.01	142058	259.779 UG/L
L1 PCB1254{4}	8.81	160596	274.021 UG/L
6) L1 PCB1254{5}	9.18	46672	270.145 UG/L
Sum PCB1254		531061	1363.694 UG/L
Average PCB1254			272.739 UG/L

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(f)=RT Delta > 1/2 Window (m)=manual int.

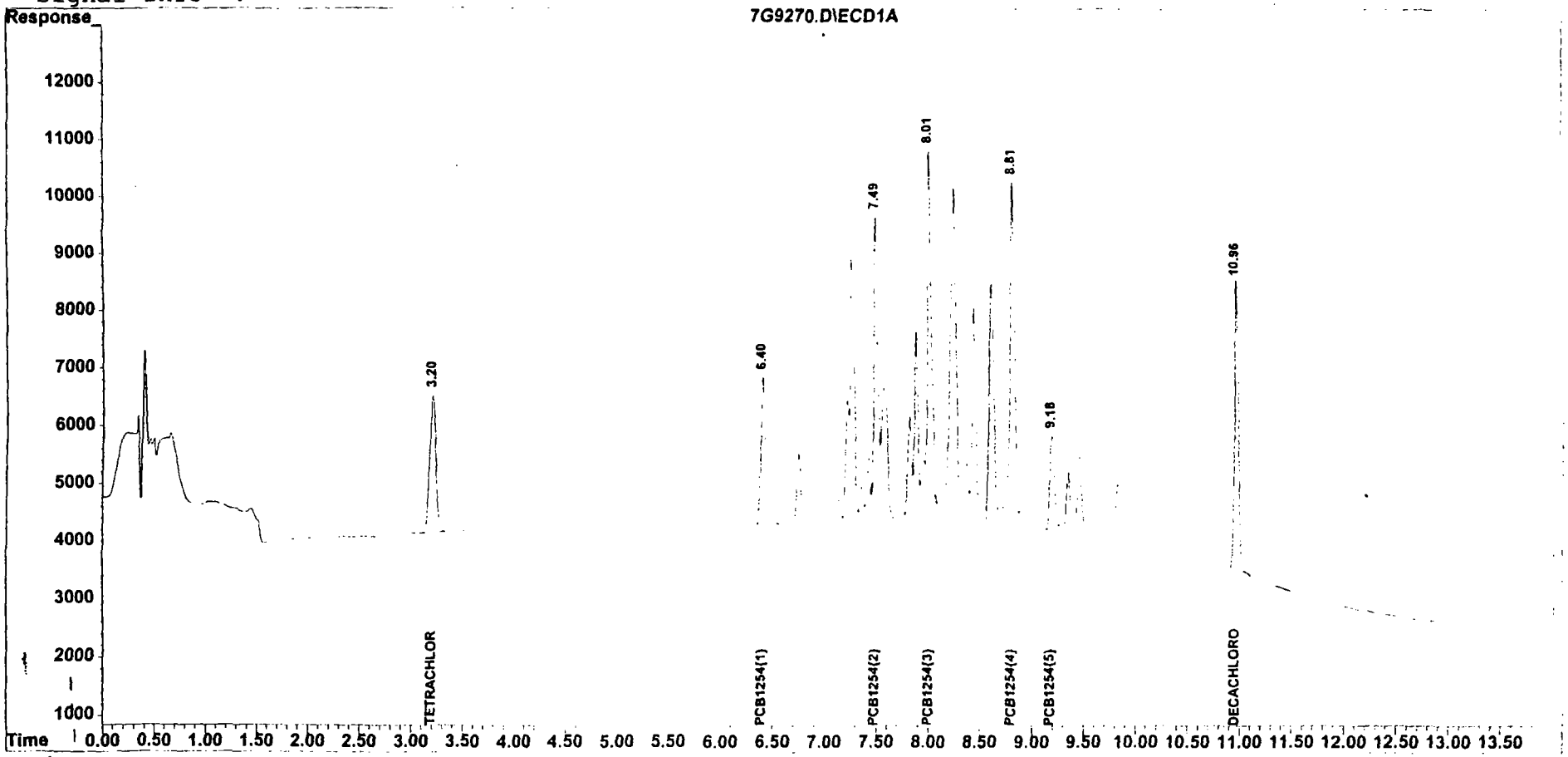
Quantitation Report

Data File : C:\HPCHEM\1\DATA\101900\7G9270.D
Acq On : 19 Oct 2000 15:56
Sample : ICV 1254 0.25 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Vial: 11
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9271.D Vial: 12
Acq On : 19 Oct 2000 16:15 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	38099	4.985 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	24.93%#
7) S DECACHLOROBIPHENYL	10.96	45205	5.281 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	26.41%#
Target Compounds			
2) L1 PCB1254{1}	6.40	34674	108.195 UG/L
3) L1 PCB1254{2}	7.49	39453	88.419 UG/L
L1 PCB1254{3}	8.01	56916	104.081 UG/L
L1 PCB1254{4}	8.81	63280	107.973 UG/L
6) L1 PCB1254{5}	9.18	17816	103.122 UG/L
Sum PCB1254		212139	511.790 UG/L
Average PCB1254			102.358 UG/L

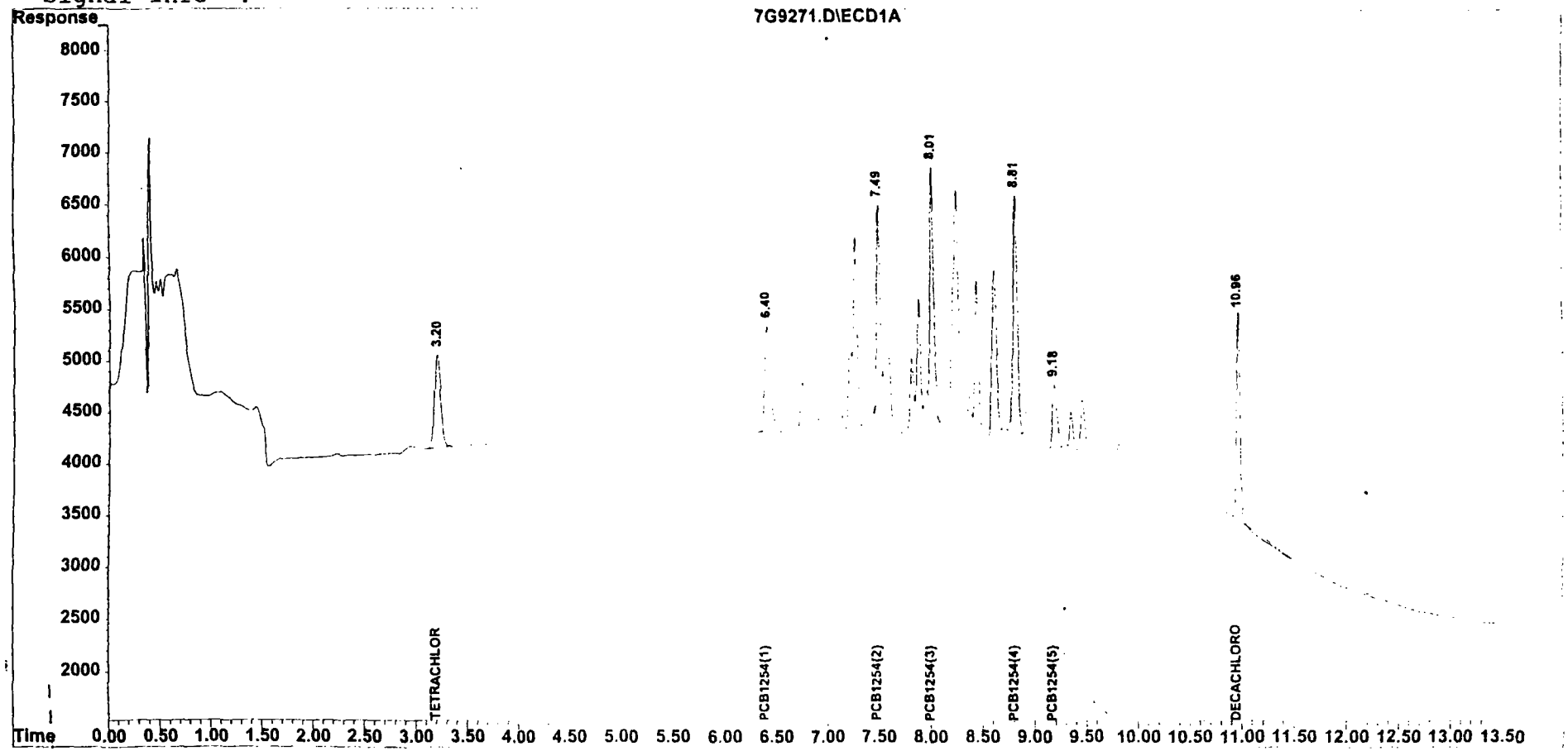
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9271.D 1254FCG.M Fri Oct 20 09:26:15 2000 Page 1

Data File : C:\HPCHEM\1\DATA\101900\7G9271.D
Acq On : 19 Oct 2000 16:15
Sample : ICV 1254 0.1 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Vial: 12
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9272.D Vial: 13
Acq On : 19 Oct 2000 16:33 Operator: SMW
Sample : ICV 1254 0.05 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.21	19630	2.568 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	12.84%#
7) S DECACHLOROBIPHENYL	10.96	27075	3.163 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	15.82%#
Target Compounds			
2) L1 PCB1254{1}	6.40	18453	57.579 UG/L
3) L1 PCB1254{2}	7.49	20989	22.401 UG/L
L1 PCB1254{3}	8.01	29660	54.239 UG/L
L1 PCB1254{4}	8.81	33209	56.663 UG/L
6) L1 PCB1254{5}	9.18	9040	52.323 UG/L
Sum PCB1254		111351	243.205 UG/L
Average PCB1254			48.641 UG/L

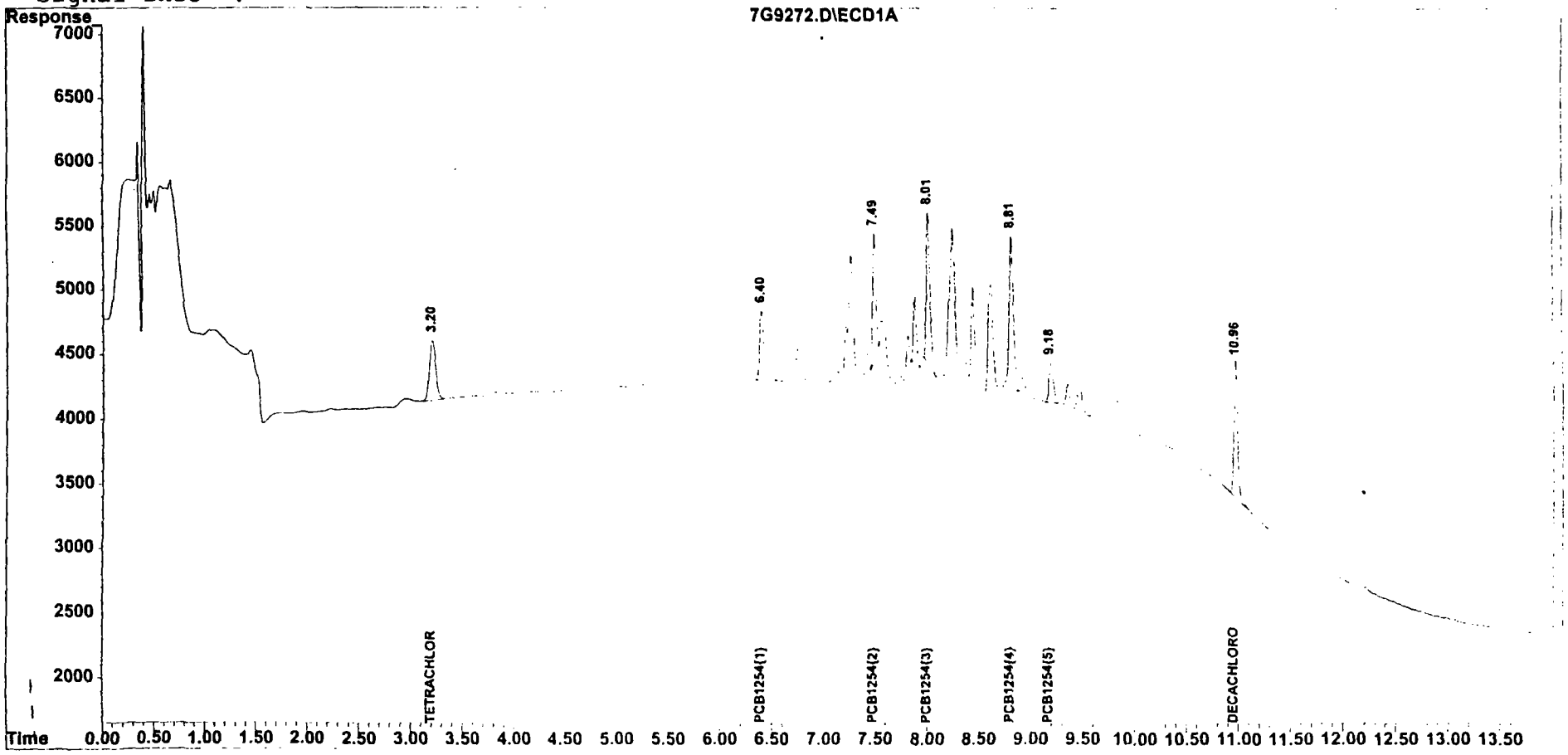
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9272.D 1254FCG.M Fri Oct 20 09:26:20 2000 Page 1

Data File : C:\HPCHEM\1\DATA\101900\7G9272.D
Acq On : 19 Oct 2000 16:33
Sample : ICV 1254 0.05 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1254FCG.RES

Vial: 13
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration ...

Data File : C:\HPCHEM\1\DATA\101900\7G9273.D
Acq On : 19 Oct 2000 16:52
Sample : ALT 1254 0.5 PPM S47-47
Misc :
tFile : EVENTS.E

Vial: 14
Operator: SMW
Inst : HP7
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	24.481	2.1	98	0.00
2	L1	PCB1254{1}	500.000	531.306	-6.3	109	0.00
3	L1	PCB1254{2}	500.000	518.970	-3.8	97	0.00
4	L1	PCB1254{3}	500.000	450.464	9.9	82	0.00
5	L1	PCB1254{4}	500.000	464.676	7.1	95	0.00
6	L1	PCB1254{5}	500.000	448.195	10.4	90	0.00
7	S	DECACHLOROBIPHENYL	25.000	25.632	-2.5	133	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\101900\7G9273.D Vial: 14
Acq On : 19 Oct 2000 16:52 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 20 9:25 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	187109	24.481 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 122.41%	
7) S DECACHLOROBIPHENYL	10.96	219413	25.632 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 128.16%	
Target Compounds			
2) L1 PCB1254{1}	6.40	170272	531.306 UG/L
3) L1 PCB1254{2}	7.49	156860	518.970 UG/L
[illegible] L1 PCB1254{3}	8.00	246332	450.464 UG/L
[illegible] L1 PCB1254{4}	8.81	272333	464.676 UG/L
6) L1 PCB1254{5}	9.18	77434	448.195 UG/L
Sum PCB1254		923231	2413.611 UG/L
Average PCB1254			482.722 UG/L

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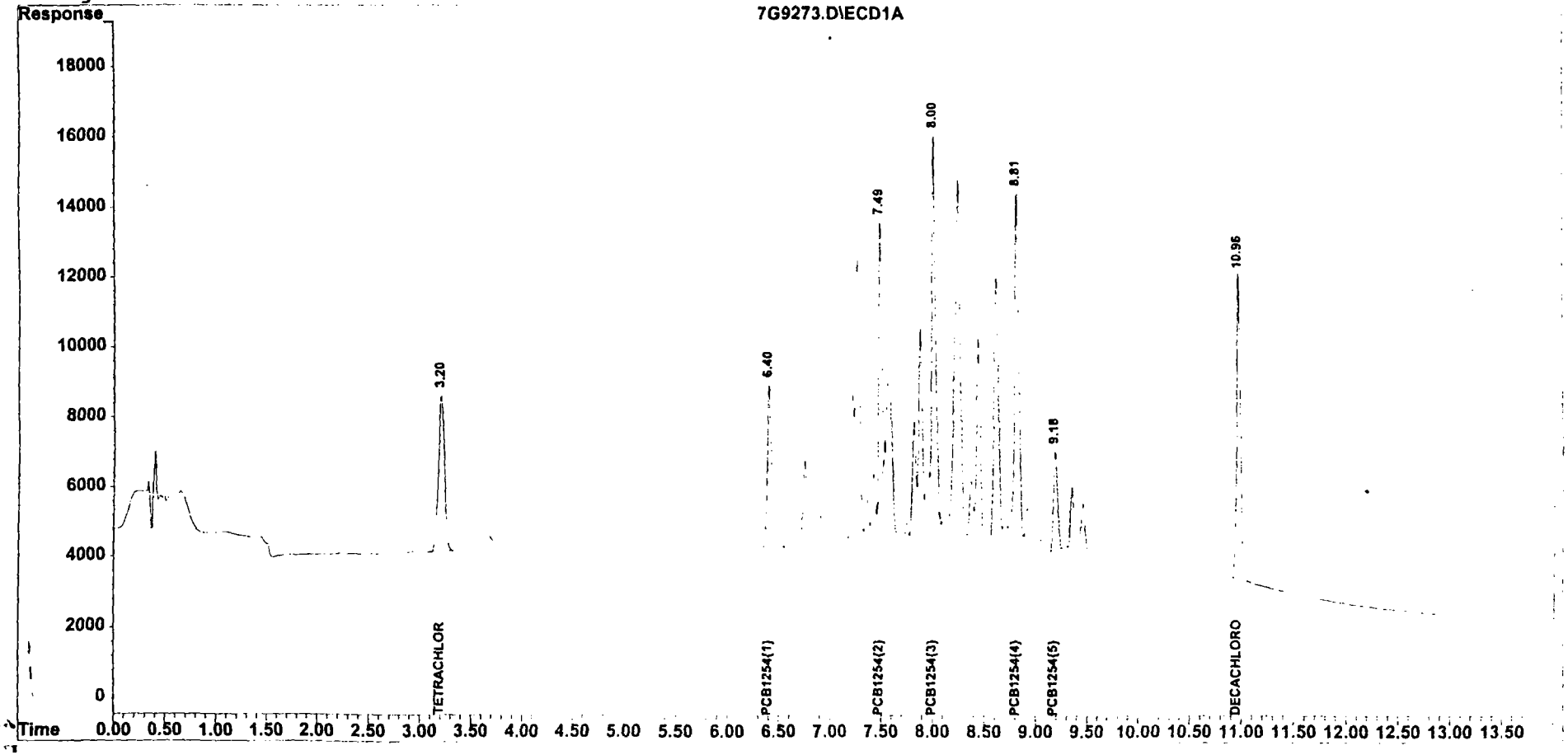
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9273.D
Acq On : 19 Oct 2000 16:52
Sample : ALT 1254 0.5 PPM S47-47
Misc :
IntFile : EVENTS.E
Quant Time: Oct 20 9:25 2000 Quant Results File: 1254FCG.RES

Vial: 14
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:24:42 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9274.D Vial: 15
Acq On : 19 Oct 2000 17:11 Operator: SMW
Sample : ICV 1221 0.5 PPM S49-04 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	218293	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.96	246032	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1221(1)	2.05	56369	500.000 UG/L
3) L1 PCB1221(2)	3.57	25103	500.000 UG/L
L1 PCB1221(3)	3.99	53529	500.000 UG/L
L1 PCB1221(4)	4.30	34178	500.000 UG/L
6) L1 PCB1221(5)	4.43	133287	500.000 UG/L
Sum PCB1221		302465	2500.000 UG/L
Average PCB1221			500.000 UG/L

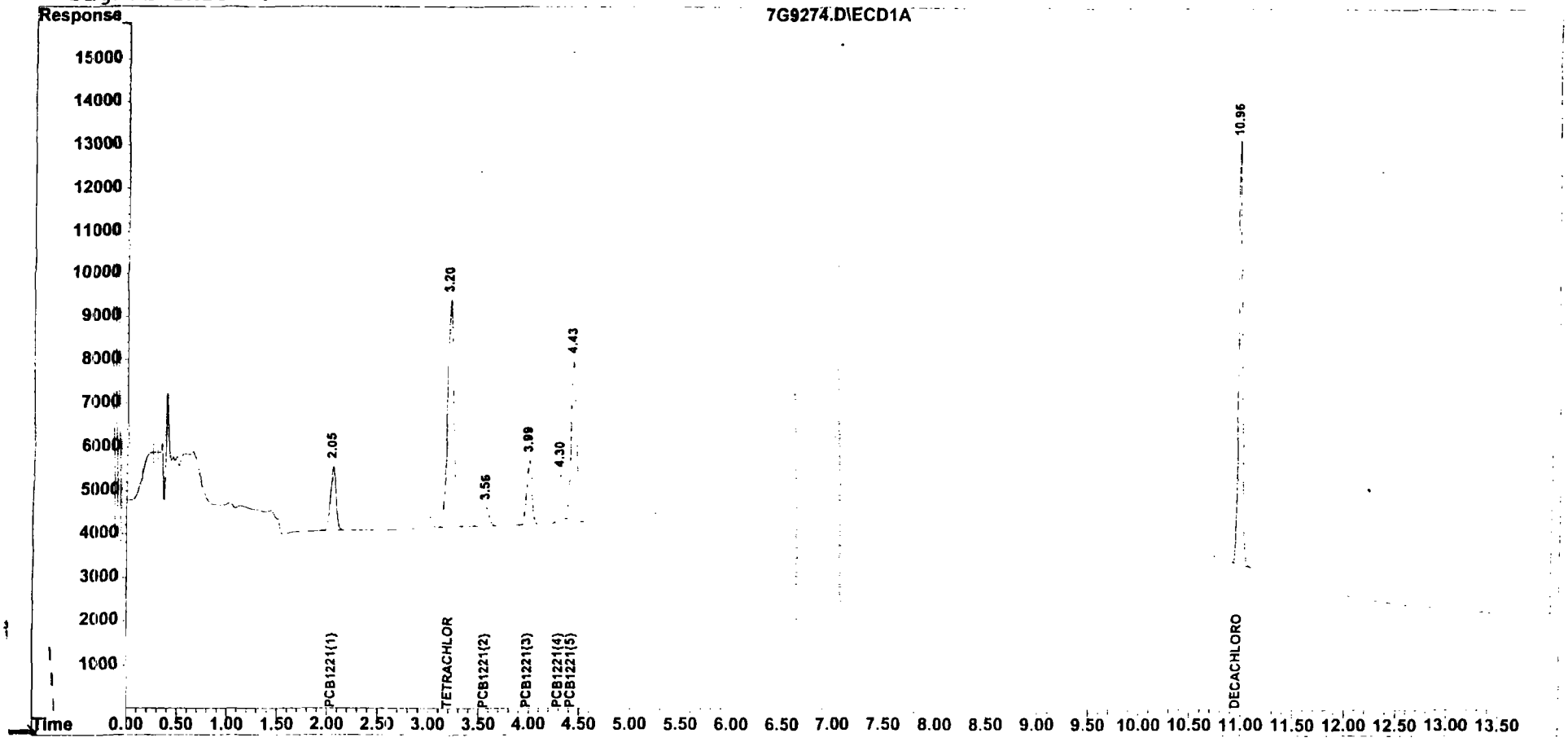
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9274.D
Acq On : 19 Oct 2000 17:11
Sample : ICV 1221 0.5 PPM S49-04
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:26 2000 Quant Results File: 1221SF.RES

Vial: 15
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9275.D Vial: 16
Acq On : 19 Oct 2000 17:30 Operator: SMW
Sample : ICV 1232 0.5 PPM S49-31 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:28 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

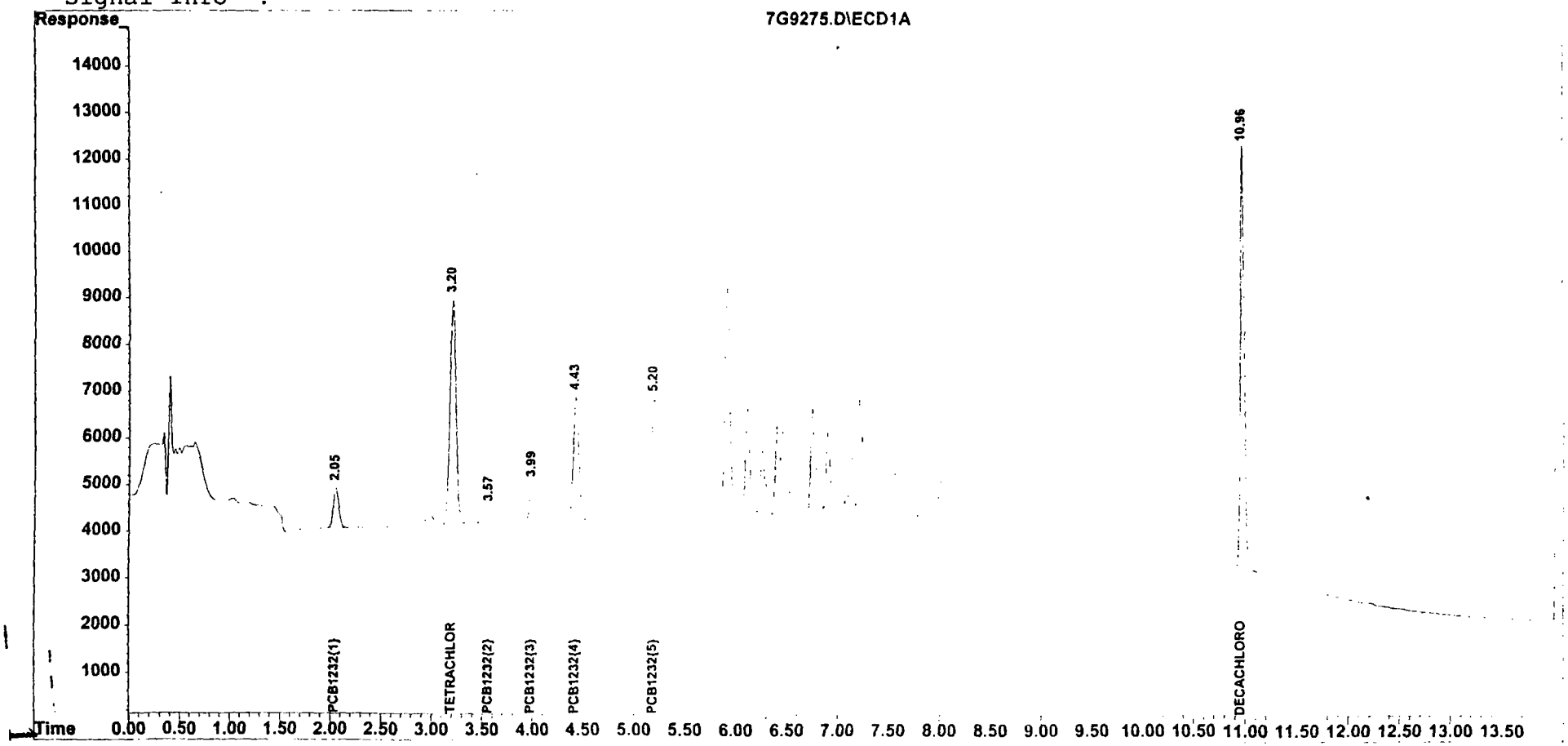
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	198834	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.96	228802	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1232{1}	2.05	32610	500.000 UG/L
3) L1 PCB1232{2}	3.57	16423	500.000 UG/L
4) L1 PCB1232{3}	3.99	28917	500.000 UG/L
5) L1 PCB1232{4}	4.43	92813	500.000 UG/L
6) L1 PCB1232{5}	5.20	74130	500.000 UG/L
Sum PCB1232		244893	2500.000 UG/L
Average PCB1232			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G9275.D 1232SF.M Fri Oct 20 09:28:07 2000 Page 1

Data File : C:\HPCHEM\1\DATA\101900\7G9275.D Vial: 16
Acq On : 19 Oct 2000 17:30 Operator: SMW
Sample : ICV 1232 0.5 PPM S49-31 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:28 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\101900\7G9276.D Vial: 17
Acq On : 19 Oct 2000 17:49 Operator: SMW
Sample : ICV 1242 0.5 PPM S49-50 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:29 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	205337	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.96	245406	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1242 (1)	4.43	86258	500.000 UG/L
3) L1 PCB1242 (2)	5.20	150398	500.000 UG/L
4) L1 PCB1242 (3)	5.91	331578	500.000 UG/L
5) L1 PCB1242 (4)	6.11	135433	500.000 UG/L
6) L1 PCB1242 (5)	6.90	92576	500.000 UG/L
Sum PCB1242		796243	2500.000 UG/L
Average PCB1242			500.000 UG/L

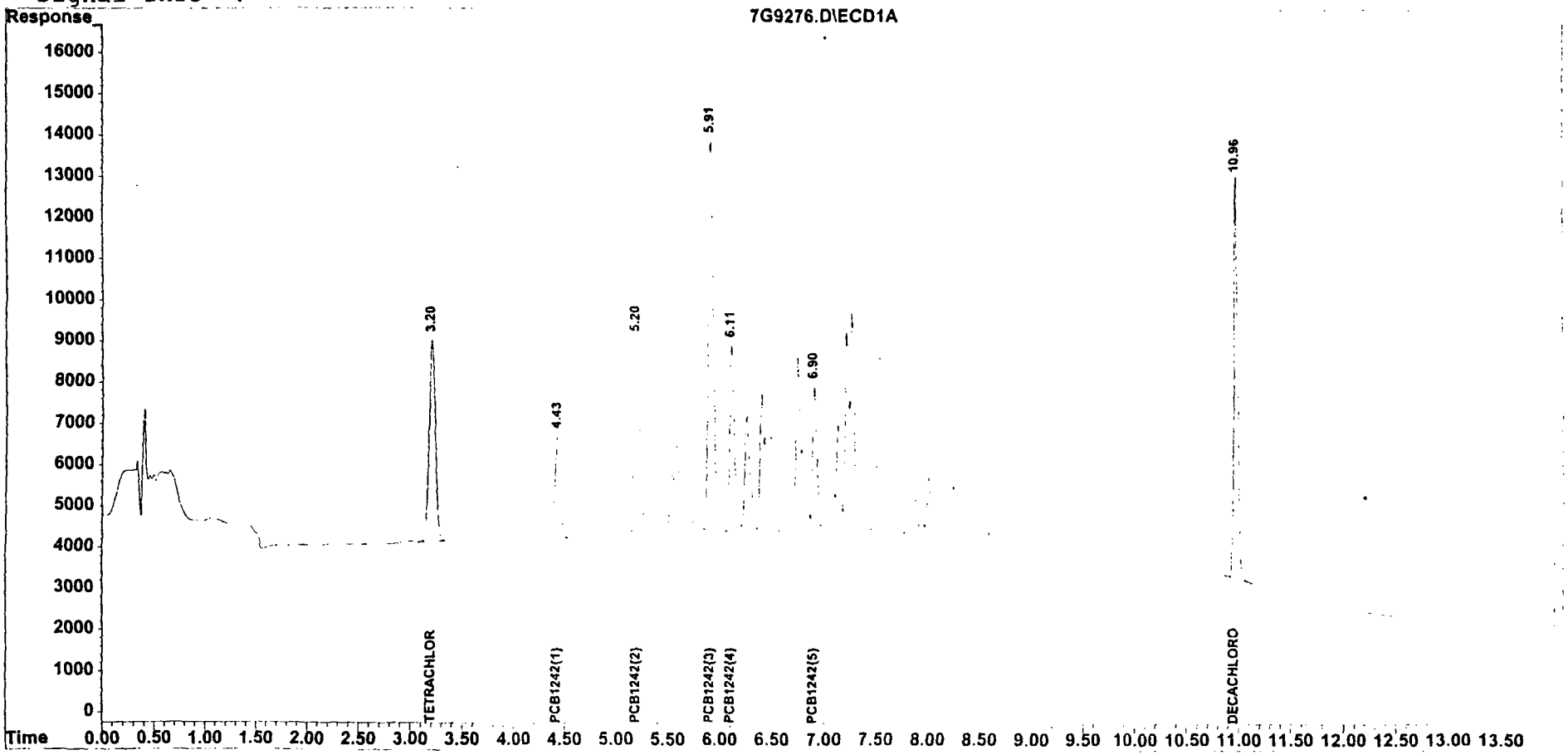
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\101900\7G9276.D
Acq On : 19 Oct 2000 17:49
Sample : ICV 1242 0.5 PPM S49-50
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:29 2000 Quant Results File: 1242SF.RES

Vial: 17
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9277.D Vial: 18
Acq On : 19 Oct 2000 18:08 Operator: SMW
Sample : ICV 1248 0.5 PPM S50-01 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:33 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

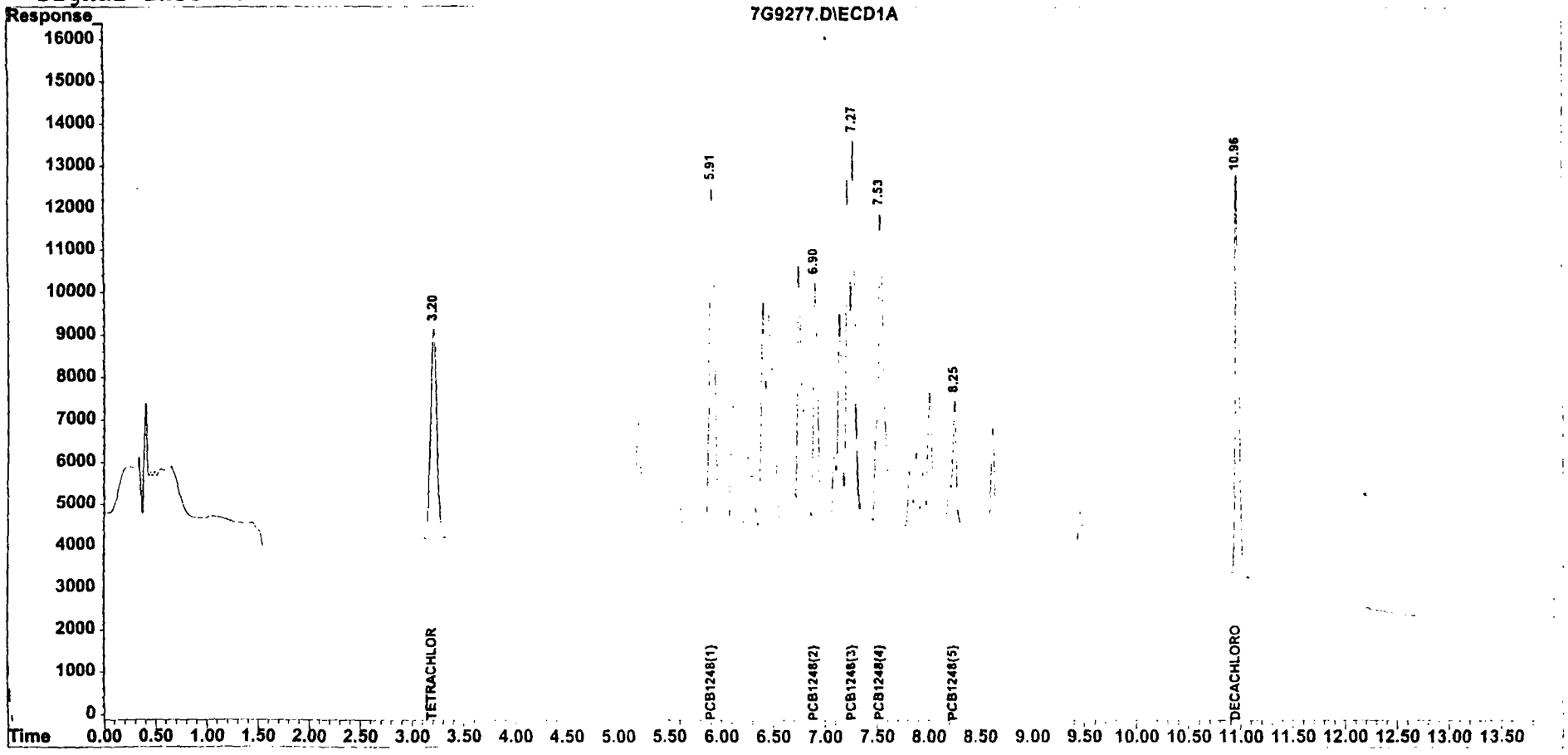
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	207003	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.96	238180	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1248(1)	5.91	284976	500.000 UG/L
3) L1 PCB1248(2)	6.90	155960	500.000 UG/L
L1 PCB1248(3)	7.27	103059	500.000 UG/L
L1 PCB1248(4)	7.54	304961	500.000 UG/L
6) L1 PCB1248(5)	8.25	47094	500.000 UG/L
Sum PCB1248		896051	2500.000 UG/L
Average PCB1248			500.000 UG/L

Data File : C:\HPCHEM\1\DATA\101900\7G9277.D
Acq On : 19 Oct 2000 18:08
Sample : ICV 1248 0.5 PPM S50-01
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:33 2000 Quant Results File: 1248SF.RES

Vial: 18
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing -

Data File : C:\HPCHEM\1\DATA\101900\7G9278.D Vial: 19
Acq On : 19 Oct 2000 18:26 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP7
Misc : Multiplr: 1.00
tFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1221{1}	500.000	451.876	9.6	90	0.00
3 L1	PCB1221{2}	500.000	456.866	8.6	91	0.00
4 L1	PCB1221{3}	500.000	452.390	9.5	90	0.00
5 L1	PCB1221{4}	500.000	439.620	12.1	88	0.00
6 L1	PCB1221{5}	500.000	448.520	10.3	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G9278.D 1221SF.M Fri Oct 20 09:27:21 2000

Data File : C:\HPCHEM\1\DATA\101900\7G9278.D Vial: 19
Acq On : 19 Oct 2000 18:26 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:27 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1221{1}	2.05	50943	451.876 UG/L
3) L1 PCB1221{2}	3.57	22937	456.866 UG/L
4) L1 PCB1221{3}	3.99	48432	452.390 UG/L
5) L1 PCB1221{4}	4.30	30051	439.620 UG/L
6) L1 PCB1221{5}	4.43	119564	448.520 UG/L
Sum PCB1221		271927	2249.271 UG/L
Average PCB1221			449.854 UG/L

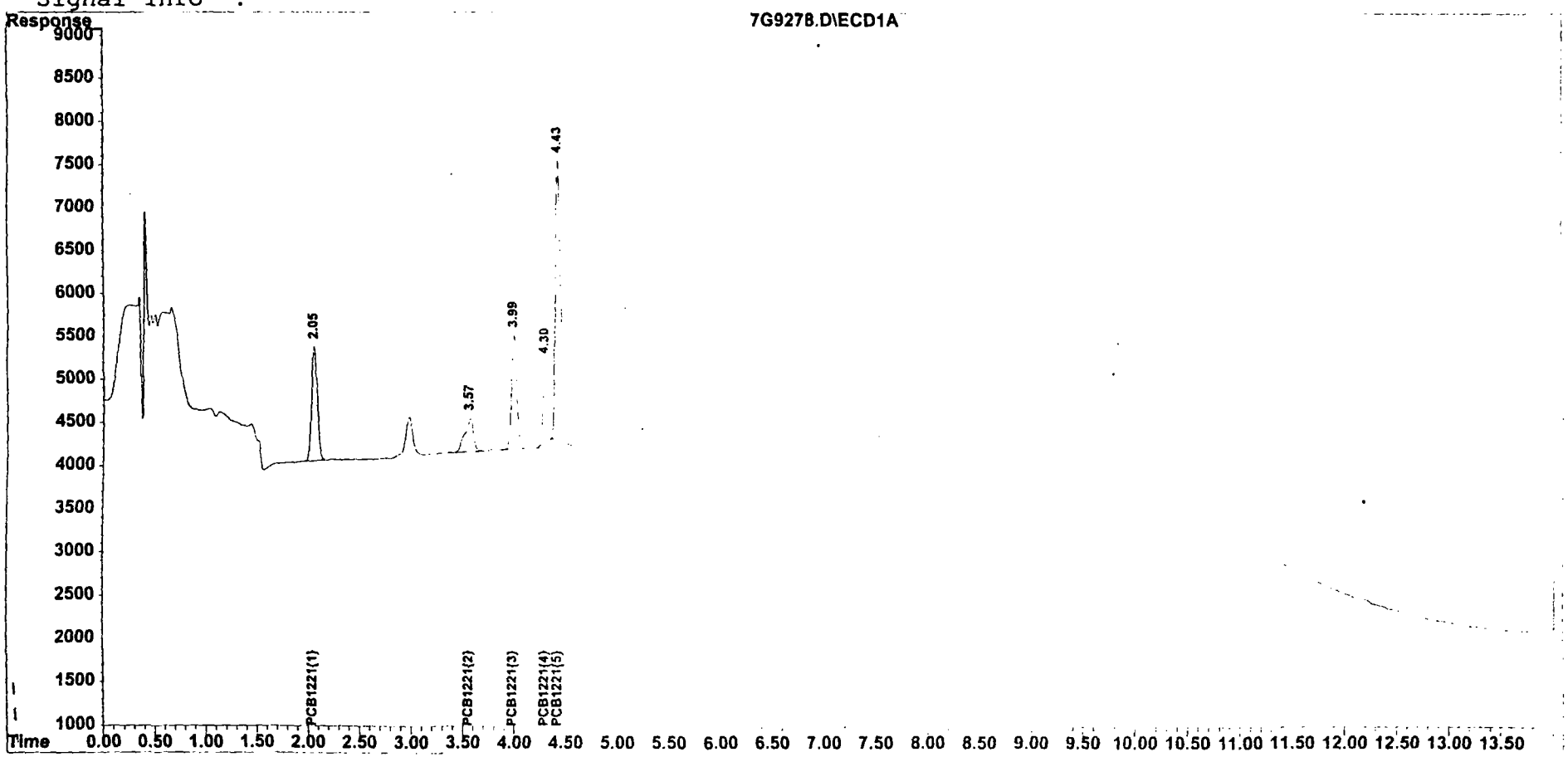
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9278.D 1221SF.M Fri Oct 20 09:27:17 2000 Page 1

Data File : C:\HPCHEM\1\DATA\101900\7G9278.D
Acq On : 19 Oct 2000 18:26
Sample : ALT 1221 0.5 PPM S50-02A
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:27 2000 Quant Results File: 1221SF.RES

Vial: 19
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9279.D Vial: 20
Acq On : 19 Oct 2000 18:45 Operator: SMW
Sample : ALT 1232 0.5 PPM S46-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1232{1}	500.000	477.451	4.5	95	0.00
3 L1	PCB1232{2}	500.000	497.434	0.5	99	0.00
4 L1	PCB1232{3}	500.000	592.075	-18.4#	118	0.00
5 L1	PCB1232{4}	500.000	578.161	-15.6#	116	0.00
6 L1	PCB1232{5}	500.000	502.319	-0.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\101900\7G9279.D Vial: 20
Acq On : 19 Oct 2000 18:45 Operator: SMW
Sample : ALT 1232 0.5 PPM S46-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:29 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1232{1}	2.05	31139	477.451 UG/L
3) L1 PCB1232{2}	3.56	16339	497.434 UG/L
4) L1 PCB1232{3}	3.99	34242	592.075 UG/L
L1 PCB1232{4}	4.43	107322	578.161 UG/L
L1 PCB1232{5}	5.20	74474	502.319 UG/L
Sum PCB1232		263516	2647.440 UG/L
Average PCB1232			529.488 UG/L

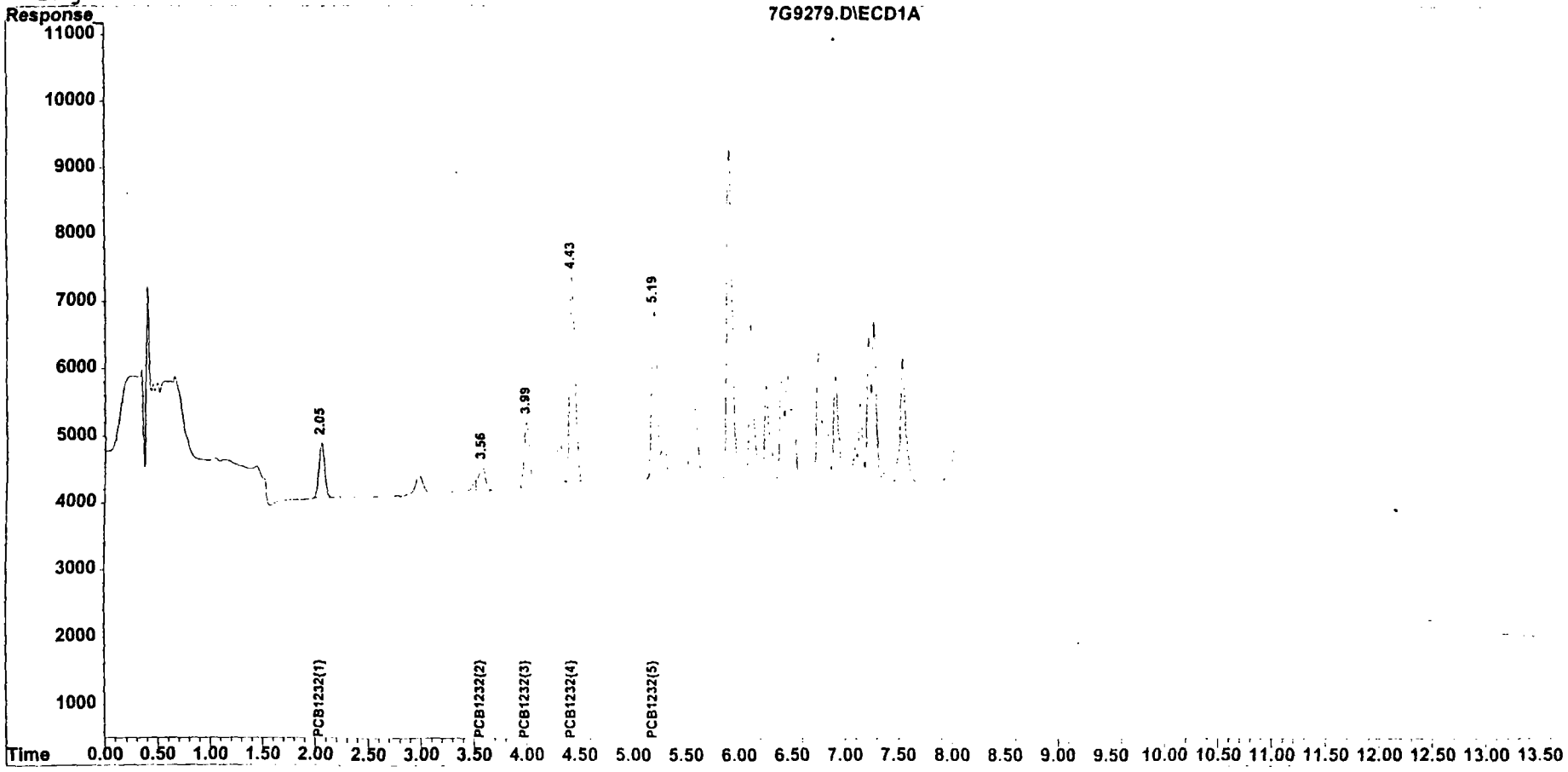
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9279.D 1232SF.M Fri Oct 20 09:29:19 2000

Da File : C:\HPCHEM\1\DATA\101900\7G9279.D
Acq On : 19 Oct 2000 18:45
Sample : ALT 1232 0.5 PPM S46-32
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:29 2000 Quant Results File: 1232SF.RES

Vial: 20
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9280.D Vial: 21
Acq On : 19 Oct 2000 19:04 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
T-File : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1242{1}	500.000	493.145	1.4	99	0.00
3 L1	PCB1242{2}	500.000	457.990	8.4	92	0.00
4 L1	PCB1242{3}	500.000	458.960	8.2	92	0.00
5 L1	PCB1242{4}	500.000	459.031	8.2	92	0.00
6 L1	PCB1242{5}	500.000	453.382	9.3	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G9280.D 1242SF.M Fri Oct 20 09:30:20 2000

Data File : C:\HPCHEM\1\DATA\101900\7G9280.D Vial: 21
Acq On : 19 Oct 2000 19:04 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:30 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1242{1}	4.43	85076	493.145 UG/L
3) L1 PCB1242{2}	5.20	137761	457.990 UG/L
4) L1 PCB1242{3}	5.91	304362	458.960 UG/L
5) L1 PCB1242{4}	6.11	124336	459.031 UG/L
6) L1 PCB1242{5}	6.90	83945	453.382 UG/L
Sum PCB1242		735479	2322.507 UG/L
Average PCB1242			464.501 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

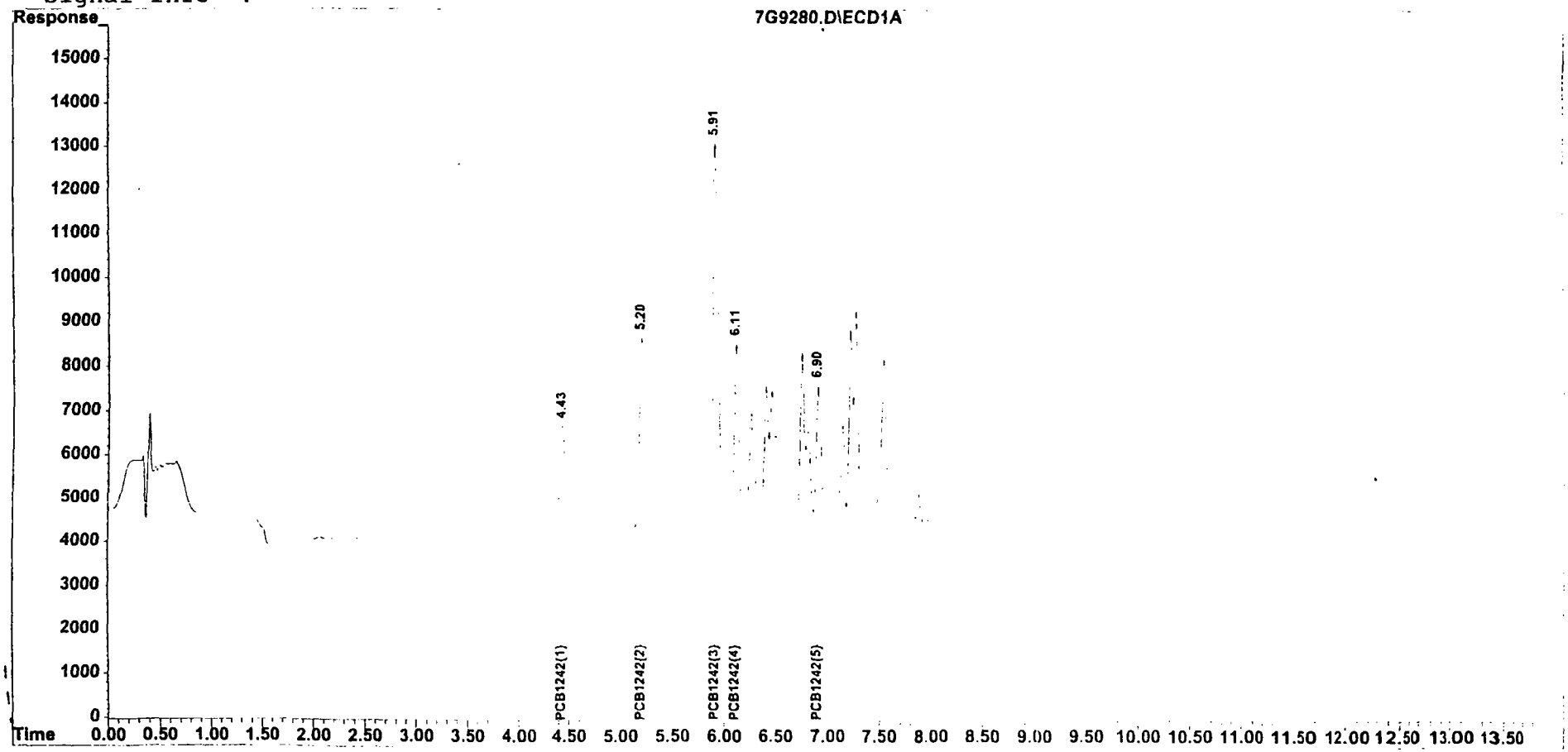
Quantitation Report

Data File : C:\HPCHEM\1\DATA\101900\7G9280.D
Acq On : 19 Oct 2000 19:04
Sample : ALT 1242 0.5 PPM S47-48
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:30 2000 Quant Results File: 1242SF.RES

Vial: 21
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\101900\7G9281.D Vial: 22
Acq On : 19 Oct 2000 19:23 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
T -File : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1248{1}	500.000	351.960	29.6#	70	0.00
3	L1	PCB1248{2}	500.000	449.487	10.1	90	0.00
4	L1	PCB1248{3}	500.000	453.122	9.4	91	0.00
5	L1	PCB1248{4}	500.000	476.070	4.8	95	0.00
6	L1	PCB1248{5}	500.000	496.018	0.8	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\101900\7G9281.D Vial: 22
Acq On : 19 Oct 2000 19:23 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:33 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1248{1}	5.91	200600	351.960 UG/L
3) L1 PCB1248{2}	6.90	140204	449.487 UG/L
4) L1 PCB1248{3}	7.27	93397	453.122 UG/L
5) L1 PCB1248{4}	7.54	290365	476.070 UG/L
6) L1 PCB1248{5}	8.25	46719	496.013 UG/L
Sum PCB1248		771286	2226.656 UG/L
Average PCB1248			445.331 UG/L

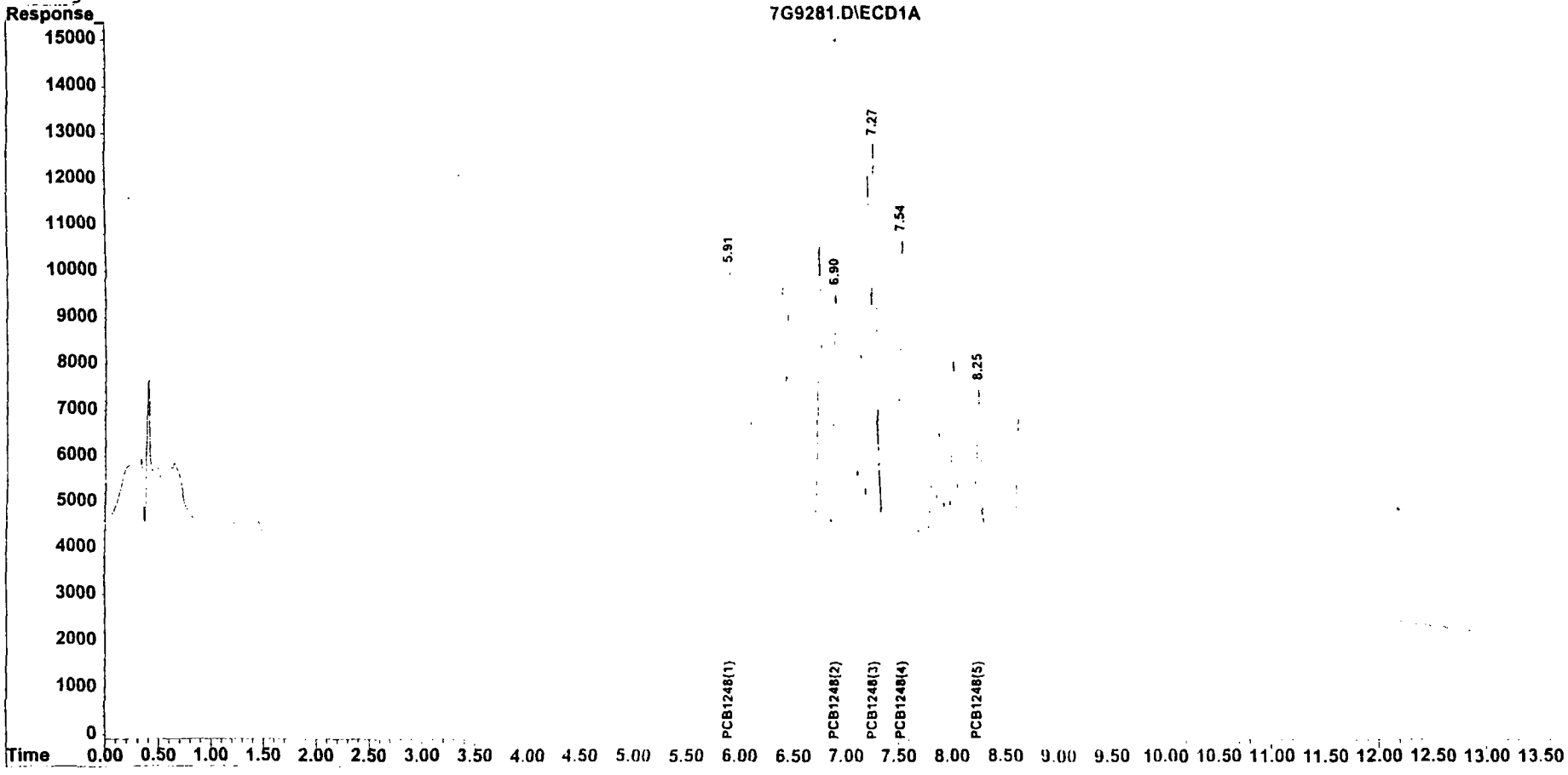
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9281.D 1248SF.M Fri Oct 20 09:33:53 2000 Page 19

Data File : C:\HPCHEM\1\DATA\101900\7G9281.D
Acq On : 19 Oct 2000 19:23
Sample : ALT 1248 0.5 PPM S49-03
Misc :
IntFile : AUTOINT1.E
Quant Time: Oct 20 9:33 2000 Quant Results File: 1248SF.RES

Vial: 22
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11204.D Vial: 1
Acq On : 20 Oct 2000 13:55 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	22.749	9.0	95	0.03
2	L1	PCB1016{1}	500.000	454.911	9.0	95	0.00
3	L1	PCB1016{2}	500.000	487.180	2.6	97	0.01
4	L1	PCB1016{3}	500.000	469.256	6.1	95	0.03
5	L1	PCB1016{4}	500.000	439.492	12.1	92	0.03
6	L1	PCB1016{5}	500.000	482.668	3.5	96	0.02
7	L2	PCB1260{1}	500.000	465.060	7.0	93	0.02
8	L2	PCB1260{2}	500.000	474.320	5.1	97	0.03
9	L2	PCB1260{3}	500.000	462.105	7.6	98	0.03
10	L2	PCB1260{4}	500.000	513.095	-2.6	101	0.03
11	L2	PCB1260{5}	500.000	445.832	10.8	91	0.04
12	S	DECACHLOROBIPHENYL	25.000	25.919	-3.7	106	0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\102000\10G11204.D Vial: 1
Acq On : 20 Oct 2000 13:55 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 20 14:01 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 14:01:49 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	302718	22.749 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	113.75%
12) S DECACHLOROBIPHENYL	4.52	69051	25.919 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	129.60%
Target Compounds			
2) L1 PCB1016{1}	2.21	196825	454.911 UG/L
3) L1 PCB1016{2}	2.32	118934	487.180 UG/L
4) L1 PCB1016{3}	2.48	390658	469.256 UG/L
5) L1 PCB1016{4}	2.68	216211	439.492 UG/L
6) L1 PCB1016{5}	2.92	102664	482.668 UG/L
Sum PCB1016		1025292	2333.507 UG/L
Average PCB1016			466.701 UG/L
7) L2 PCB1260{1}	3.01	91072	465.060 UG/L
8) L2 PCB1260{2}	3.30	236492	474.320 UG/L
9) L2 PCB1260{3}	3.41	189783	462.105 UG/L
10) L2 PCB1260{4}	3.57	215159	513.095 UG/L
11) L2 PCB1260{5}	3.71	296420	445.832 UG/L
Sum PCB1260		1028926	2360.412 UG/L
Average PCB1260			472.082 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
10G11204.D 8082EZ.M Mon Oct 23 08:28:15 2000

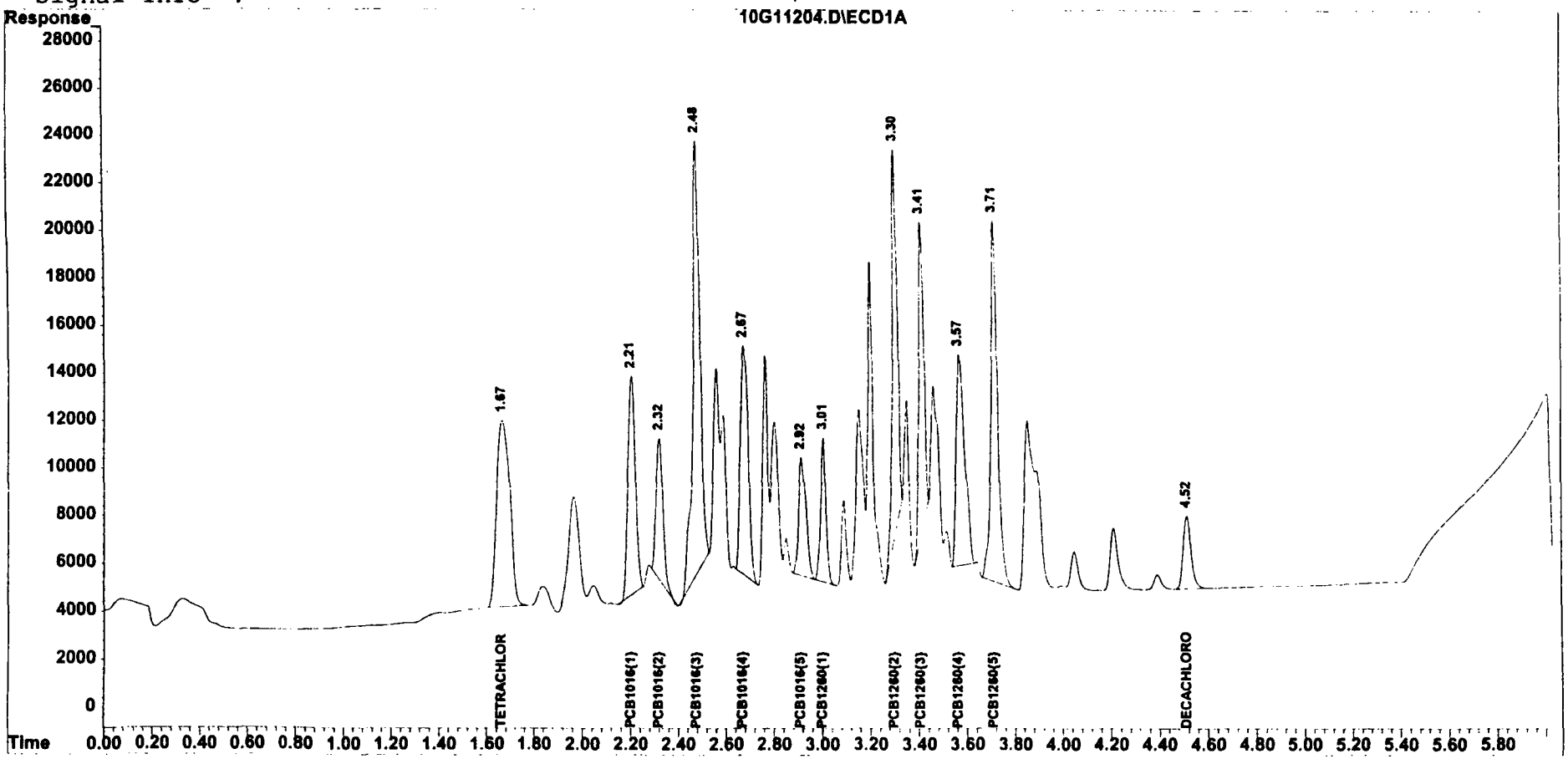
Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11204.D
Acq On : 20 Oct 2000 13:55
Sample : 1660 CONT CHK S50-23
Misc :
IntFile : events.e
Quant Time: Oct 20 14:01 2000 Quant Results File: 8082EZ.RES

Vial: 1
Operator: SMW
Inst : HP10
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 14:01:49 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11215.D Vial: 12
Acq On : 20 Oct 2000 15:30 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:29:00 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	11.158	10.7	87	0.03
2	L1	PCB1016{1}	250.000	229.754	8.1	90	0.00
3	L1	PCB1016{2}	250.000	218.693	12.5	87	0.01
4	L1	PCB1016{3}	250.000	239.866	4.1	88	0.03
5	L1	PCB1016{4}	250.000	224.392	10.2	85	0.03
6	L1	PCB1016{5}	250.000	233.866	6.5	86	0.02
7	L2	PCB1260{1}	250.000	245.898	1.6	90	0.02
8	L2	PCB1260{2}	250.000	242.270	3.1	91	0.03
9	L2	PCB1260{3}	250.000	232.635	6.9	90	0.03
10	L2	PCB1260{4}	250.000	226.643	9.3	88	0.00
11	L2	PCB1260{5}	250.000	221.992	11.2	84	0.03
12	S	DECACHLOROBIPHENYL	12.500	12.066	3.5	93	0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\102000\10G11215.D Vial: 12
Acq On : 20 Oct 2000 15:30 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 8:29 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:29:00 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	148483	11.158 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	55.79%
12) S DECACHLOROBIPHENYL	4.51	32145	12.066 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	60.33%
Target Compounds			
2) L1 PCB1016{1}	2.21	99407	229.754 UG/L
3) L1 PCB1016{2}	2.32	59876	218.693 UG/L
4) L1 PCB1016{3}	2.48	199690	239.866 UG/L
5) L1 PCB1016{4}	2.67	110391	224.392 UG/L
6) L1 PCB1016{5}	2.92	49743	233.866 UG/L
Sum PCB1016		519107	1146.570 UG/L
Average PCB1016			229.314 UG/L
7) L2 PCB1260{1}	3.01	48154	245.898 UG/L
8) L2 PCB1260{2}	3.30	120794	242.270 UG/L
9) L2 PCB1260{3}	3.41	95542	232.635 UG/L
10) L2 PCB1260{4}	3.57	109128	226.643 UG/L
11) L2 PCB1260{5}	3.71	147596	221.992 UG/L
Sum PCB1260		521213	1169.438 UG/L
Average PCB1260			233.888 UG/L

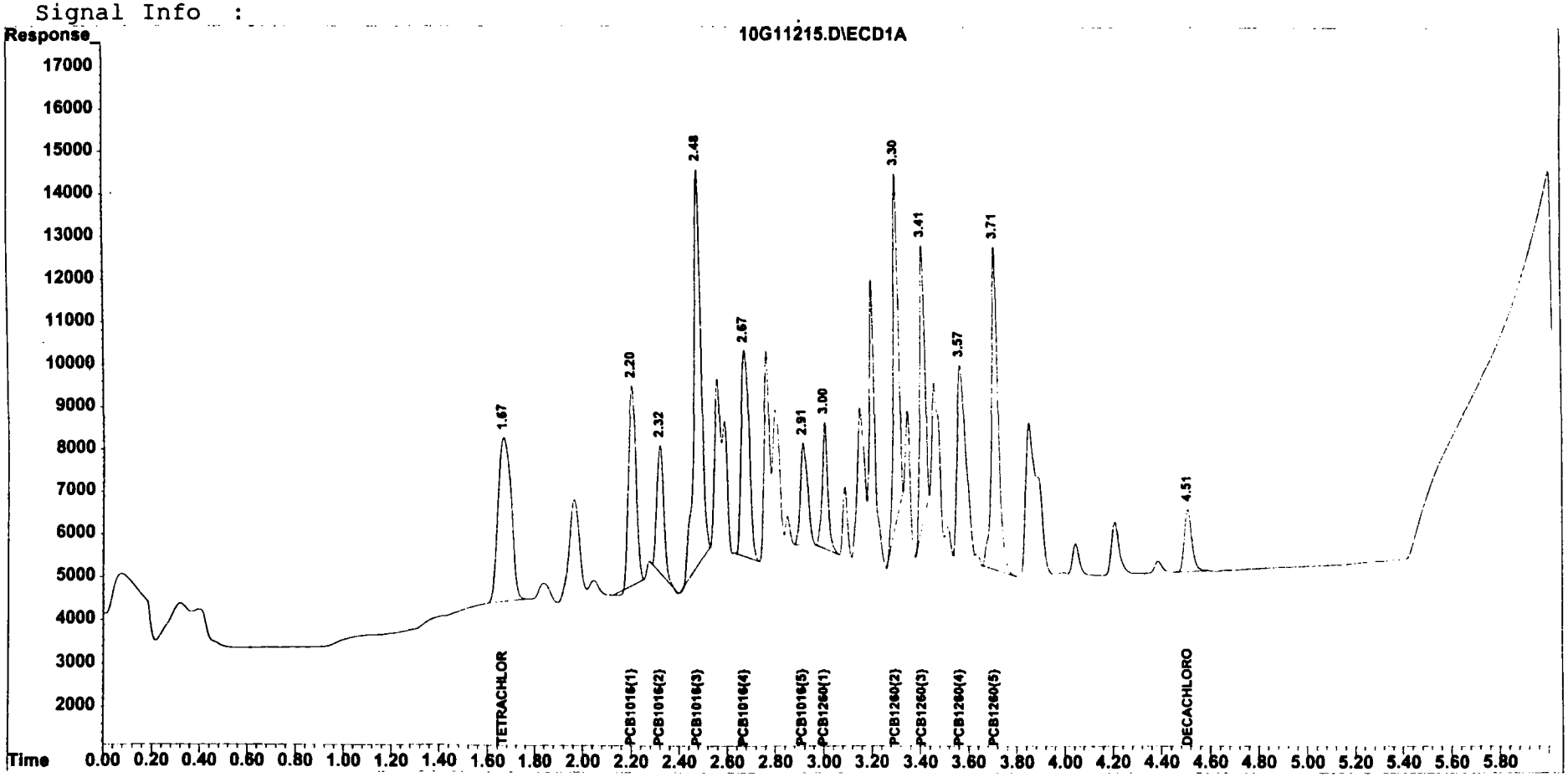
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11215.D Vial: 12
Acq On : 20 Oct 2000 15:30 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 8:29 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:29:00 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\102000\10G11220.D Vial: 17
Acq On : 20 Oct 2000 16:09 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:29:00 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	22.007	12.0	92	0.02
2	L1	PCB1016{1}	500.000	419.373	16.1#	88	0.00
3	L1	PCB1016{2}	500.000	435.393	12.9	88	0.00
4	L1	PCB1016{3}	500.000	431.387	13.7	87	0.03
5	L1	PCB1016{4}	500.000	396.118	20.8#	83	0.02
6	L1	PCB1016{5}	500.000	427.866	14.4	85	0.02
7	L2	PCB1260{1}	500.000	427.096	14.6	86	0.02
8	L2	PCB1260{2}	500.000	432.855	13.4	88	0.02
9	L2	PCB1260{3}	500.000	428.455	14.3	91	0.02
10	L2	PCB1260{4}	500.000	446.769	10.6	89	0.00
11	L2	PCB1260{5}	500.000	393.807	21.2#	80	0.03
12	S	DECACHLOROBIPHENYL	25.000	21.998	12.0	90	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\2\DATA\102000\10G11220.D Vial: 17
Acq On : 20 Oct 2000 16:09 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 8:31 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:29:00 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.66	292842	22.007 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	110.04%
12) S DECACHLOROBIPHENYL	4.51	58605	21.998 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	109.99%
Target Compounds			
2) L1 PCB1016{1}	2.20	181449	419.373 UG/L
3) L1 PCB1016{2}	2.32	107941	435.393 UG/L
4) L1 PCB1016{3}	2.48	359132	431.387 UG/L
5) L1 PCB1016{4}	2.67	194872	396.118 UG/L
6) L1 PCB1016{5}	2.91	91007	427.866 UG/L
Sum PCB1016		934402	2110.137 UG/L
Average PCB1016			422.027 UG/L
7) L2 PCB1260{1}	3.00	83637	427.096 UG/L
8) L2 PCB1260{2}	3.30	215818	432.855 UG/L
9) L2 PCB1260{3}	3.41	175963	428.455 UG/L
10) L2 PCB1260{4}	3.56	190608	446.769 UG/L
11) L2 PCB1260{5}	3.71	261830	393.807 UG/L
Sum PCB1260		927857	2128.981 UG/L
Average PCB1260			425.796 UG/L

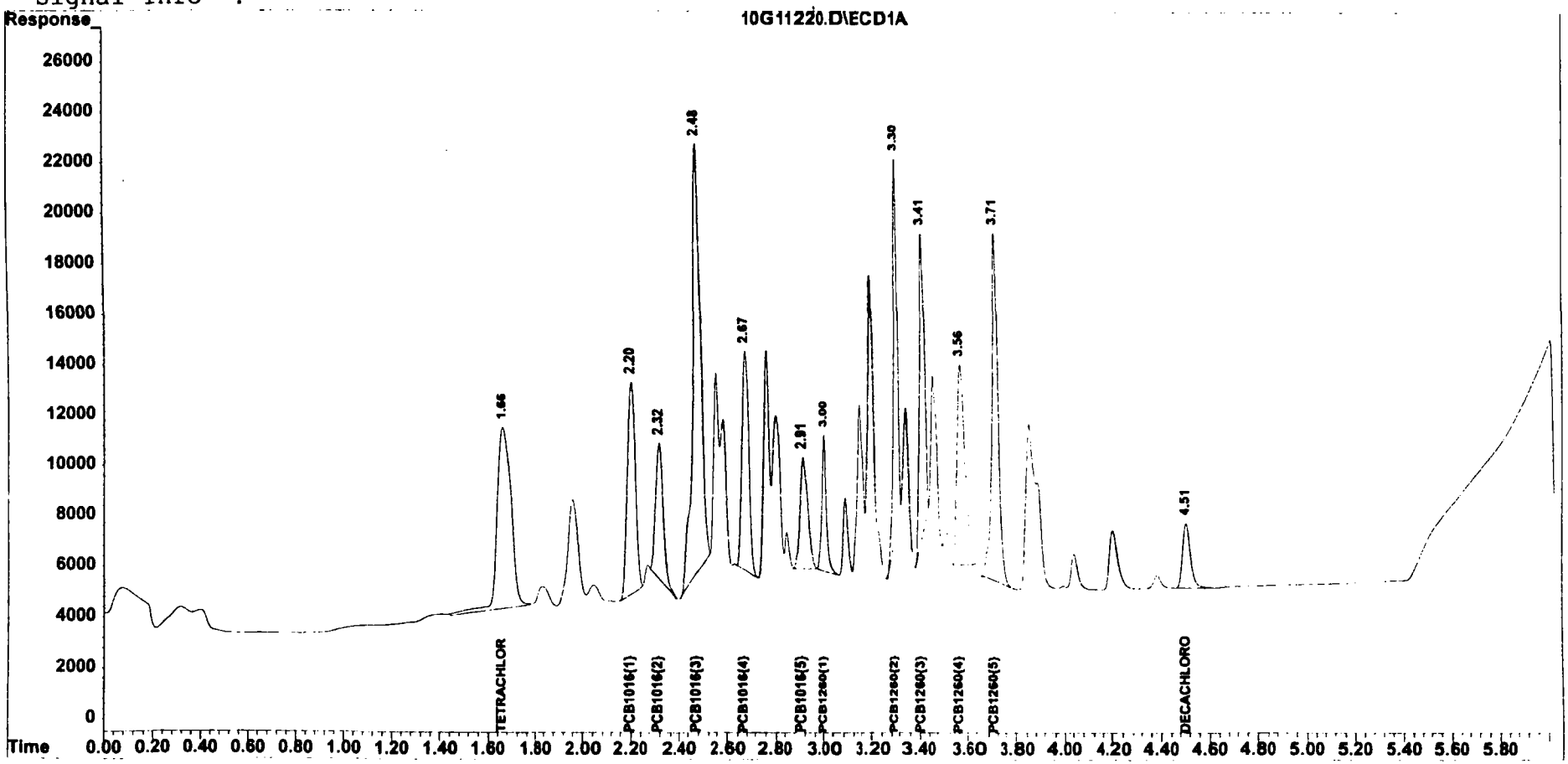
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11220.D Vial: 17
Acq On : 20 Oct 2000 16:09 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP10
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 23 8:31 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:29:00 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102400\7G9328.D Vial: 1
Acq On : 24 Oct 2000 11:16 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	23.853	4.6	91	0.01
2	L1	PCB1016{1}	500.000	502.686	-0.5	98	0.00
3	L1	PCB1016{2}	500.000	474.930	5.0	93	0.00
4	L1	PCB1016{3}	500.000	467.434	6.5	93	0.00
5	L1	PCB1016{4}	500.000	476.772	4.6	94	0.00
6	L1	PCB1016{5}	500.000	490.980	1.8	95	0.00
7	L2	PCB1260{1}	500.000	471.887	5.6	92	0.00
8	L2	PCB1260{2}	500.000	459.074	8.2	91	0.00
9	L2	PCB1260{3}	500.000	453.647	9.3	87	0.00
10	L2	PCB1260{4}	500.000	445.451	10.9	88	0.00
11	L2	PCB1260{5}	500.000	419.064	16.2#	80	0.00
12	S	DECACHLOROBIPHENYL	25.000	22.523	9.9	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\102400\7G9328.D
Acq On : 24 Oct 2000 11:16
Sample : 1660 CONT CHK S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 24 12:29 2000 Quant Results File: 8082F.RES

Vial: 1
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.22	206233	23.853 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 119.27%	
12) S DECACHLOROBIPHENYL	10.96	253928	22.523 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 112.62%	
Target Compounds			
2) L1 PCB1016(1)	4.44	111615	502.686 UG/L
3) L1 PCB1016(2)	5.21	199187	474.930 UG/L
L1 PCB1016(3)	5.92	432814	467.434 UG/L
L1 PCB1016(4)	6.12	179676	476.772 UG/L
6) L1 PCB1016(5)	7.27	123954	490.980 UG/L
Sum PCB1016		1047246	2412.802 UG/L
Average PCB1016			482.560 UG/L
7) L2 PCB1260(1)	8.44	280219	471.887 UG/L
8) L2 PCB1260(2)	8.81	321254	459.074 UG/L
9) L2 PCB1260(3)	9.46	426181	453.647 UG/L
10) L2 PCB1260(4)	9.82	502046	445.451 UG/L
11) L2 PCB1260(5)	10.39	134598	419.064 UG/L
Sum PCB1260		1664298	2249.123 UG/L
Average PCB1260			449.825 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

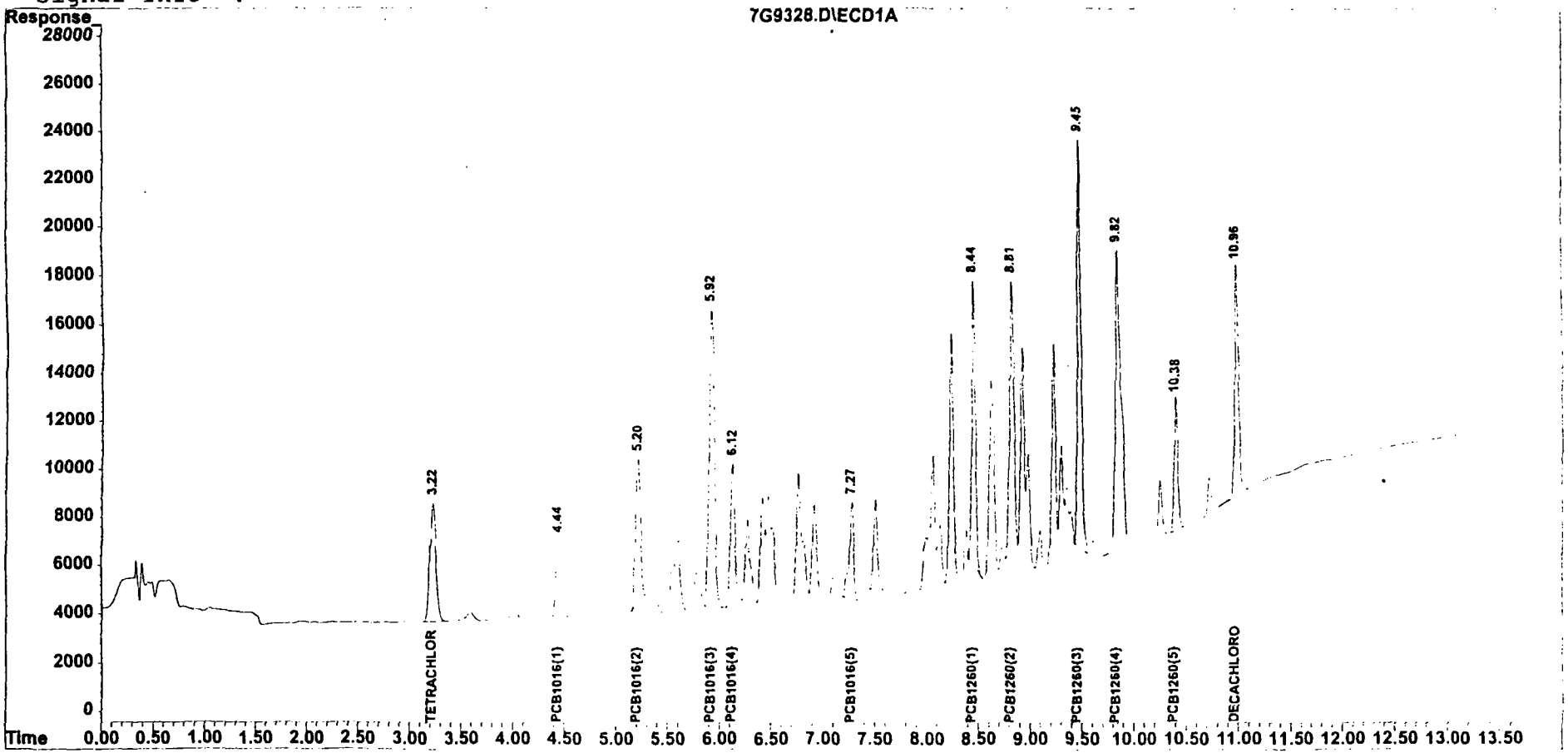
Quantitation Report

Data File : C:\HPCHEM\1\DATA\102400\7G9328.D
Acq On : 24 Oct 2000 11:16
Sample : 1660 CONT CHK S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Oct 24 12:29 2000 Quant Results File: 8082F.RES

Vial: 1
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration

Data File : C:\HPCHEM\1\DATA\102400\7G9331.D Vial: 4
Acq On : 24 Oct 2000 13:39 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
MS File : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	11.437	8.5	95	0.00
2	L1	PCB1016{1}	250.000	248.548	0.6	99	0.00
3	L1	PCB1016{2}	250.000	244.154	2.3	96	0.00
4	L1	PCB1016{3}	250.000	229.259	8.3	92	0.00
5	L1	PCB1016{4}	250.000	232.475	7.0	93	0.00
6	L1	PCB1016{5}	250.000	243.619	2.6	96	0.00
7	L2	PCB1260{1}	250.000	230.422	7.8	94	0.00
8	L2	PCB1260{2}	250.000	232.365	7.1	93	0.00
9	L2	PCB1260{3}	250.000	238.582	4.6	92	0.00
10	L2	PCB1260{4}	250.000	222.280	11.1	90	0.00
11	L2	PCB1260{5}	250.000	219.948	12.0	89	0.00
12	S	DECACHLOROBIPHENYL	12.500	11.044	11.6	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : C:\HPCHEM\1\DATA\102400\7G9331.D Vial: 4
Acq On : 24 Oct 2000 13:39 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 24 13:58 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	98884	11.437 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	57.19%
12) S DECACHLOROBIPHENYL	10.96	124513	11.044 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	55.22%
Target Compounds			
2) L1 PCB1016(1)	4.43	55187	248.548 UG/L
3) L1 PCB1016(2)	5.20	102399	244.154 UG/L
L1 PCB1016(3)	5.91	212279	229.259 UG/L
L1 PCB1016(4)	6.11	87611	232.475 UG/L
6) L1 PCB1016(5)	7.27	61504	243.619 UG/L
Sum PCB1016		518980	1198.055 UG/L
Average PCB1016			239.611 UG/L
7) L2 PCB1260(1)	8.44	147648	230.422 UG/L
8) L2 PCB1260(2)	8.81	162606	232.365 UG/L
9) L2 PCB1260(3)	9.45	224137	238.582 UG/L
10) L2 PCB1260(4)	9.82	250520	222.290 UG/L
11) L2 PCB1260(5)	10.38	70644	219.948 UG/L
Sum PCB1260		855555	1143.595 UG/L
Average PCB1260			228.719 UG/L

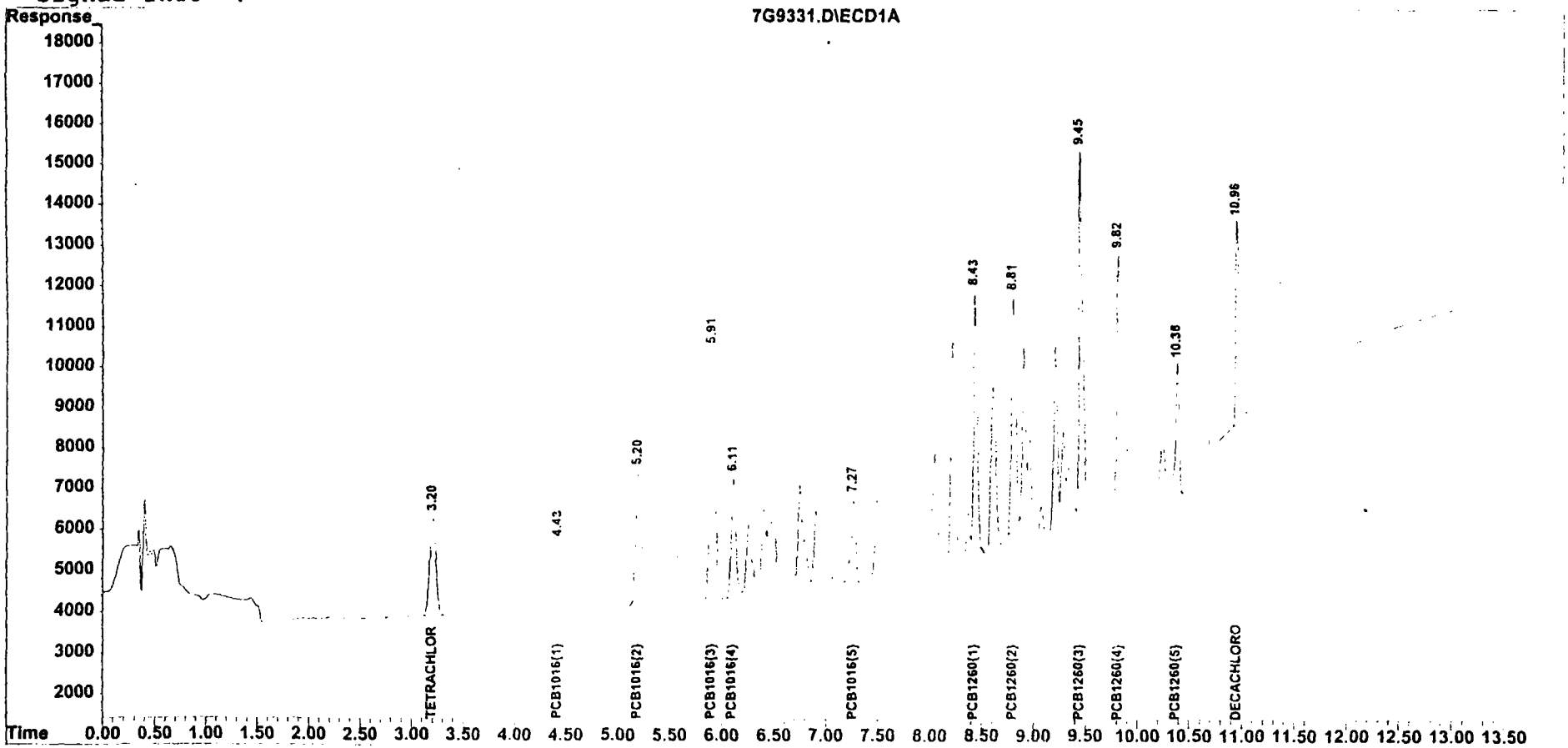
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\102400\7G9331.D
Acq On : 24 Oct 2000 13:39
Sample : 1660 CONT CHK S50-23 0.25 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Oct 24 13:58 2000 Quant Results File: 8082F.RES

Vial: 4
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/19/00
Last Update : Fri Oct 20 09:22:31 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.4 Raw QC Data

Data File : C:\HPCHEM\2\DATA\102000\10G11205.D Vial: 2
Acq On : 20 Oct 2000 14:12 Operator: SMW
Sample : BLK V149P139 WG86036-02 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	162463	12.209 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	61.04%
12) S DECACHLOROBIPHENYL	4.52	29760	11.171 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	55.86%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	2.88	2309	0.109 UG/L
Sum PCB1016		2309	0.109 UG/L
Average PCB1016			0.109 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

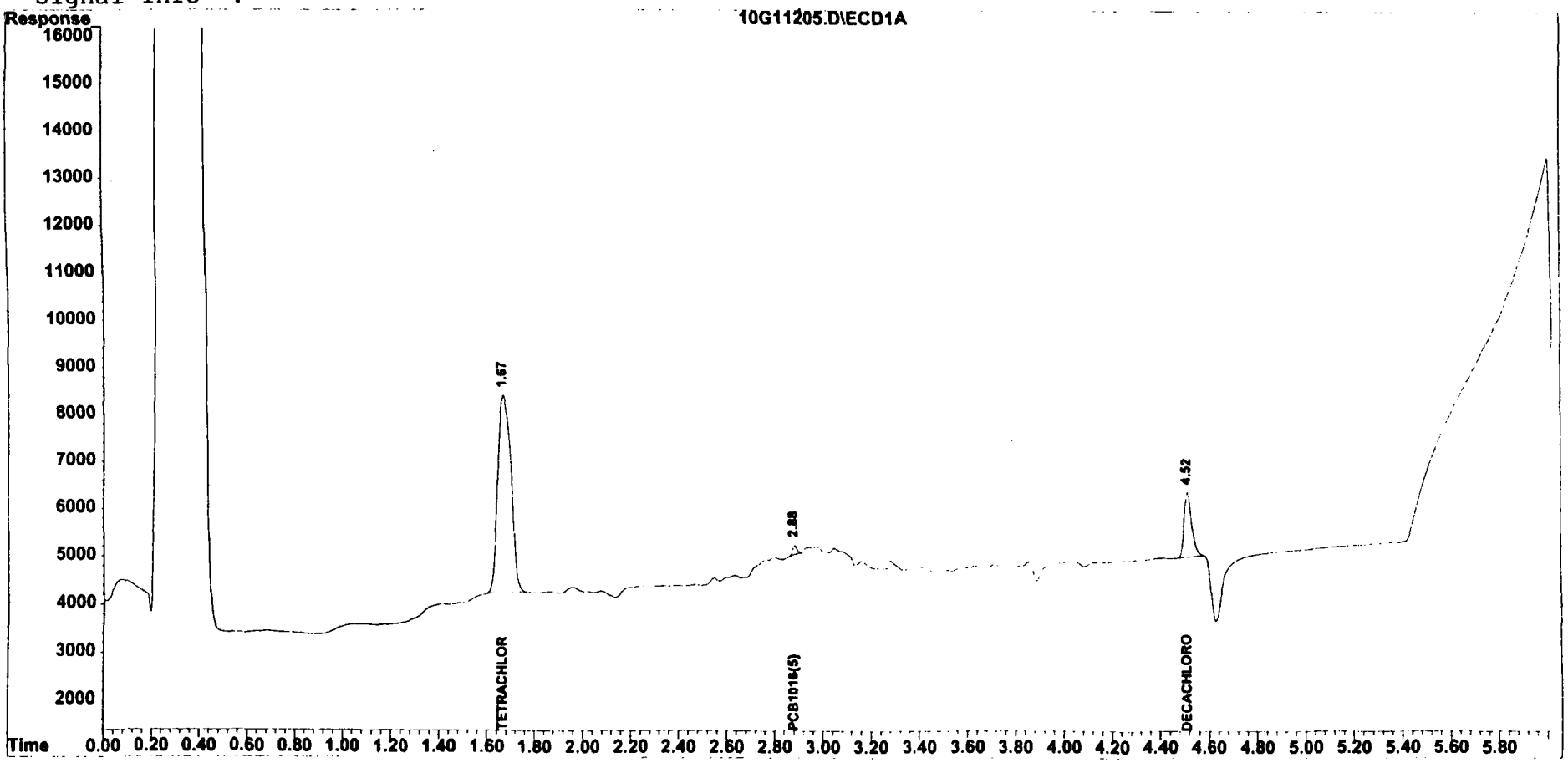
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11205.D Vial: 2
Acq On : 20 Oct 2000 14:12 Operator: SMW
Sample : BLK V149P139 WG86036-02 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\102000\10G11206.D Vial: 3
Acq On : 20 Oct 2000 14:19 Operator: SMW
Sample : LCS V149P139 WG86036-03 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	132531	9.960 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	49.80%
12) S DECACHLOROBIPHENYL	4.52	38874	14.592 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	72.96%
Target Compounds			
2) L1 PCB1016{1}	2.21	35724	0.826 UG/L
3) L1 PCB1016{2}	2.33	19332	0.466 UG/L
4) L1 PCB1016{3}	2.49	88480	1.063 UG/L
5) L1 PCB1016{4}	2.68	103129	2.096 UG/L
6) L1 PCB1016{5}	2.90	12646	0.595 UG/L
Sum PCB1016		259311	5.045 UG/L
Average PCB1016			1.009 UG/L
7) L2 PCB1260{1}	3.00	96120	4.908 UG/L
8) L2 PCB1260{2}	3.31	1235	0.025 UG/L
9) L2 PCB1260{3}	3.42	9506	0.231 UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	3.72	7414	0.112 UG/L
Sum PCB1260		114275	5.276 UG/L
Average PCB1260			1.319 UG/L

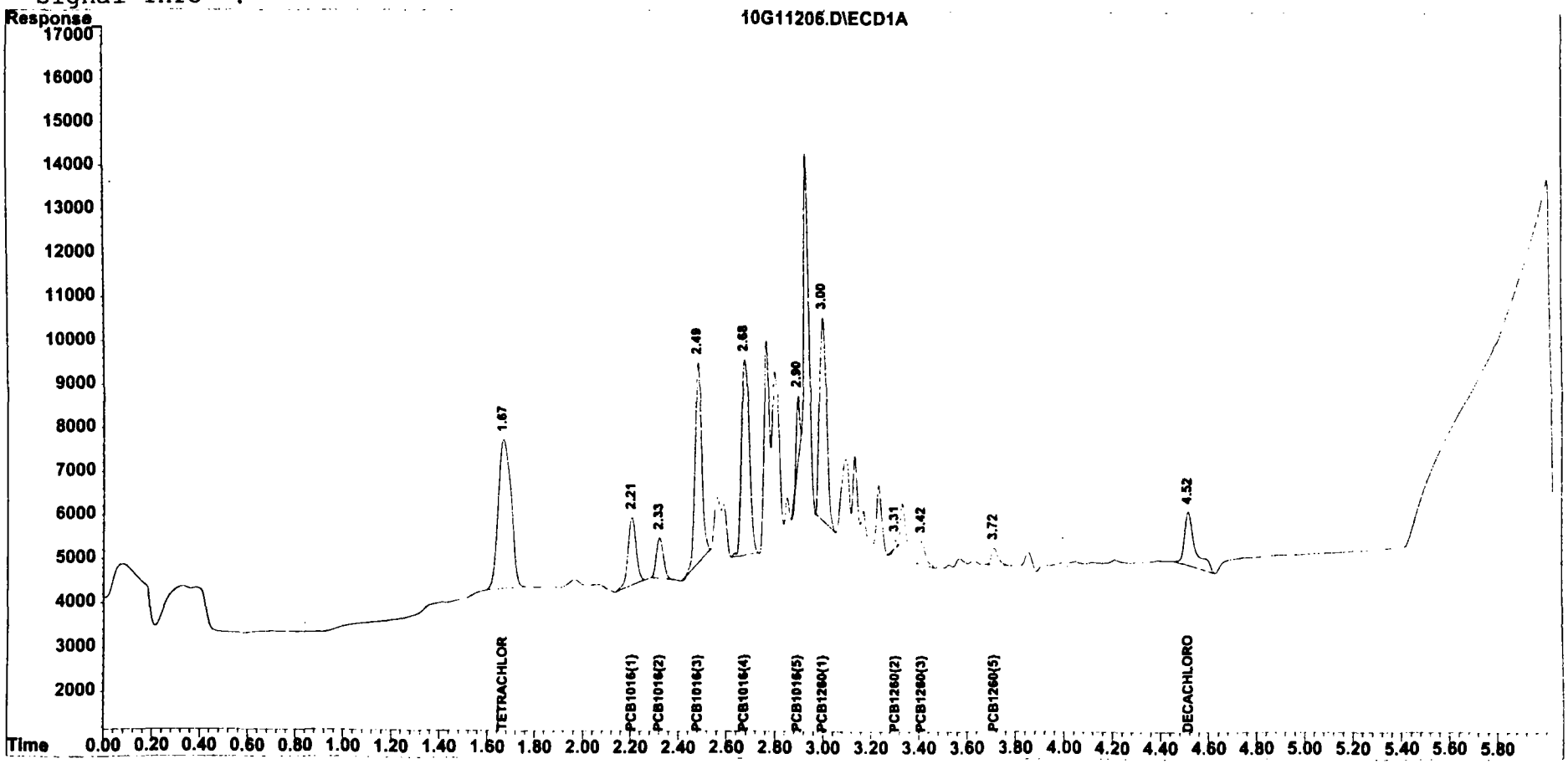
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11206.D Vial: 3
Acq On : 20 Oct 2000 14:19 Operator: SMW
Sample : LCS V149P139 WG86036-03 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\102000\10G11206.D Vial: 3
Acq On : 20 Oct 2000 14:19 Operator: SMW
Sample : LCS V149P139 WG86036-03 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 23 13:35 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	142049	11.512 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	57.56%
7) S DECACHLOROBIPHENYL	4.52	40858	17.998 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	89.99%
Target Compounds			
2) L1 PCB1248{1}	2.21	34693	1.957 UG/L
3) L1 PCB1248{2}	2.49	88737	1.857 UG/L
4) L1 PCB1248{3}	2.68	101151	1.762 UG/L
5) L1 PCB1248{4}	2.94	95109	2.052 UG/L
6) L1 PCB1248{5}	3.00	96120	2.023 UG/L
Sum PCB1248		415809	9.650 UG/L
Average PCB1248			1.930 UG/L

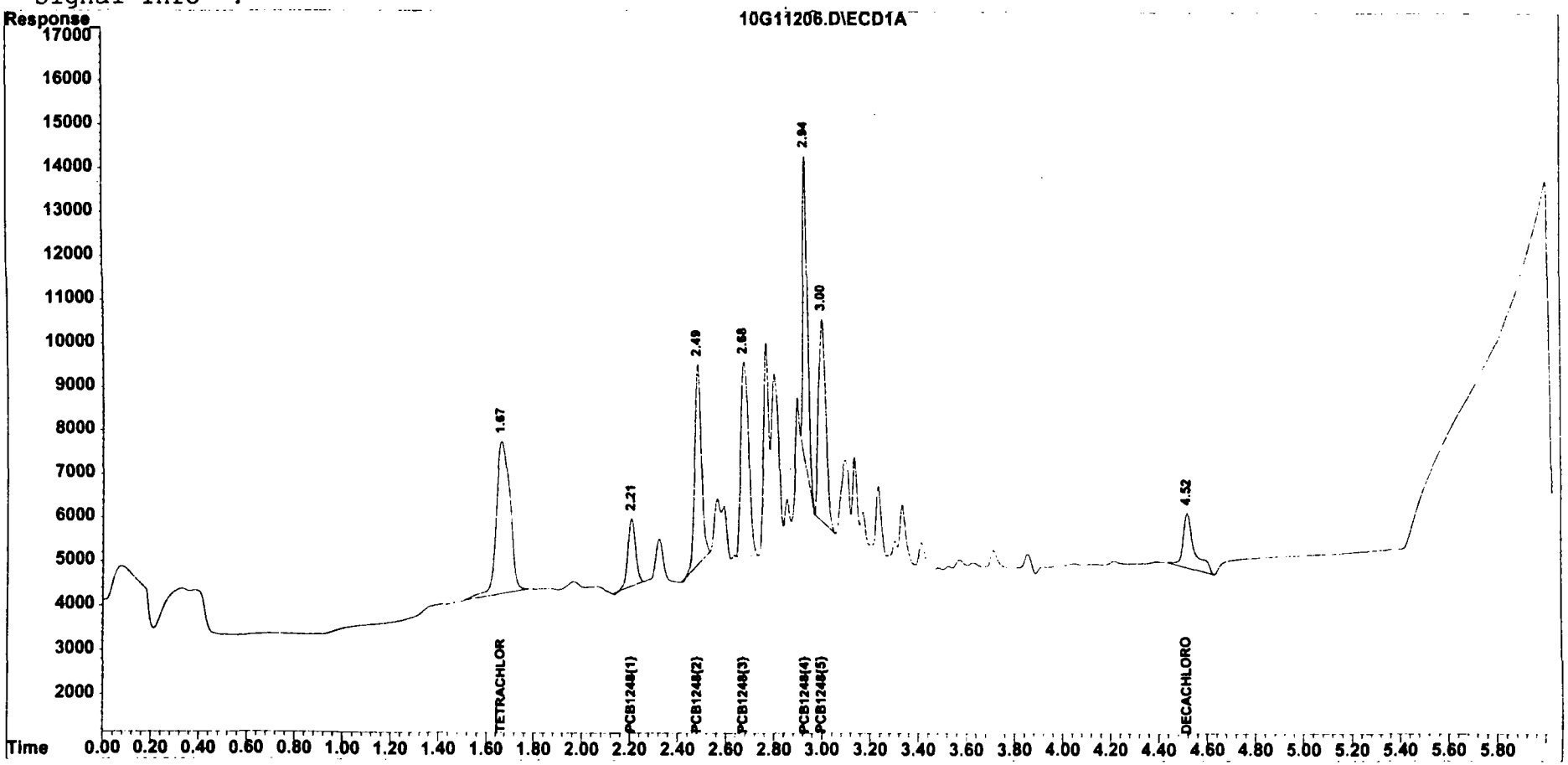
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11206.D Vial: 3
Acq On : 20 Oct 2000 14:19 Operator: SMW
Sample : LCS V149P139 WG86036-03 Inst : HP10
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Oct 23 13:35 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\102000\10G11209.D Vial: 6
Acq On : 20 Oct 2000 14:43 Operator: SMW
Sample : L0010410-02 MS Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	139632	10.493 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	52.47%
12) S DECACHLOROBIPHENYL	4.51	38242	14.355 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	71.78%
Target Compounds			
2) L1 PCB1016{1}	2.21	38669	1.787 UG/L
3) L1 PCB1016{2}	2.32	22111	1.162 UG/L
4) L1 PCB1016{3}	2.48	97345	2.339 UG/L
5) L1 PCB1016{4}	2.68	112772	4.585 UG/L
6) L1 PCB1016{5}	2.90	13283	1.249 UG/L
Sum PCB1016		284180	11.122 UG/L
Average PCB1016			2.224 UG/L
7) L2 PCB1260{1}	3.00	99701	10.183 UG/L
8) L2 PCB1260{2}	3.30	1268	0.051 UG/L
9) L2 PCB1260{3}	3.41	9507	0.463 UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	3.71	5781	0.174 UG/L
Sum PCB1260		116257	10.870 UG/L
Average PCB1260			2.718 UG/L

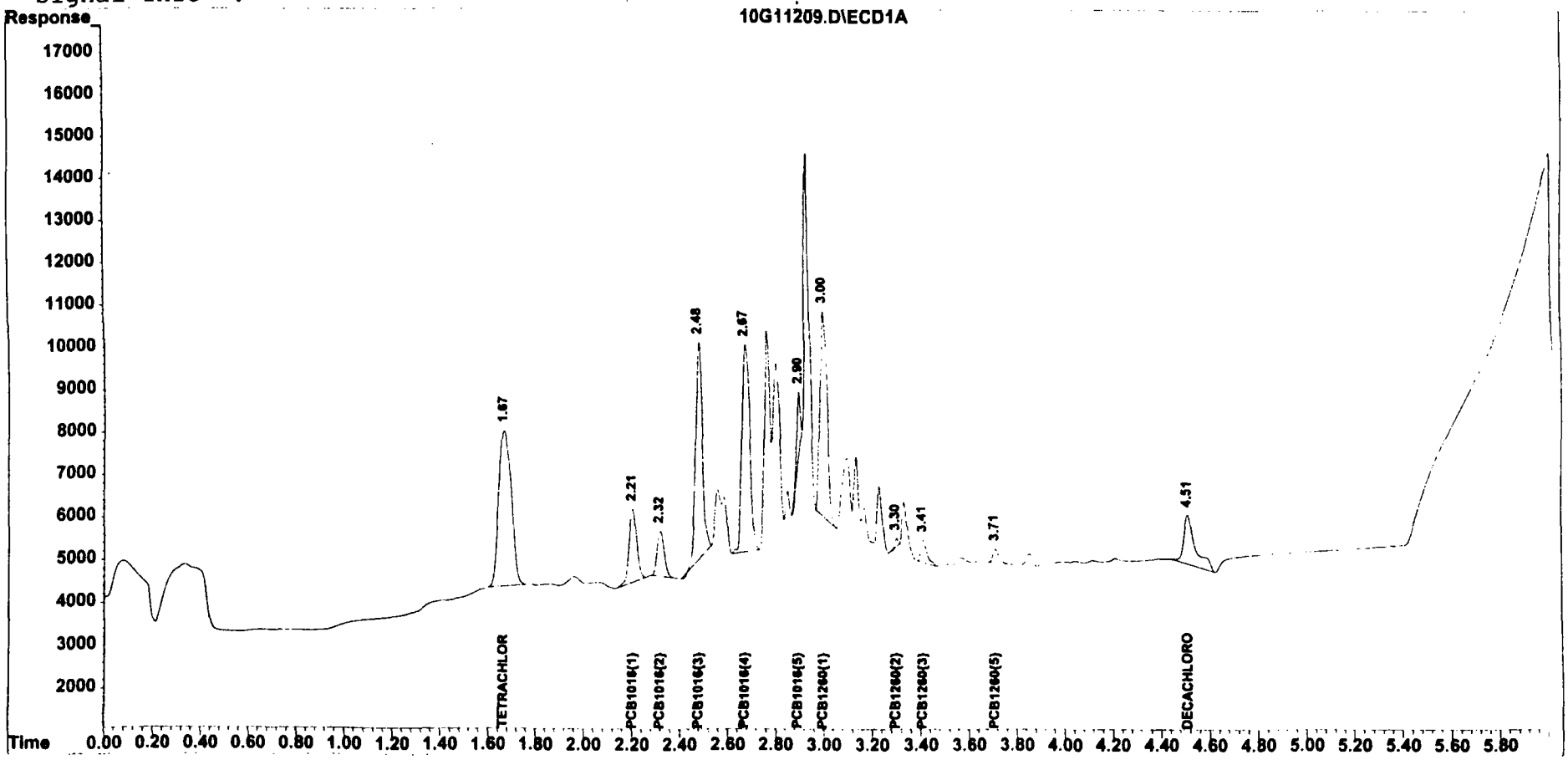
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantification Report

Data File : C:\HPCHEM\2\DATA\102000\10G11209.D Vial: 6
Acq On : 20 Oct 2000 14:43 Operator: SMW
Sample : L0010410-02 MS Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\102000\10G11209.D Vial: 6
Acq On : 20 Oct 2000 14:43 Operator: SMW
Sample : L0010410-02 MS Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : AUTOINT1.E
Quant Time: Oct 23 13:35 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	140364	11.376 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	56.88%
7) S DECACHLOROBIPHENYL	4.51	39498	17.399 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	87.00%
Target Compounds			
2) L1 PCB1248{1}	2.21	38785	4.375 UG/L
3) L1 PCB1248{2}	2.48	97959	4.099 UG/L
4) L1 PCB1248{3}	2.68	109963	3.830 UG/L
5) L1 PCB1248{4}	2.93	97332	4.201 UG/L
6) L1 PCB1248{5}	3.00	99701	4.196 UG/L
Sum PCB1248		443740	20.701 UG/L
Average PCB1248			4.140 UG/L

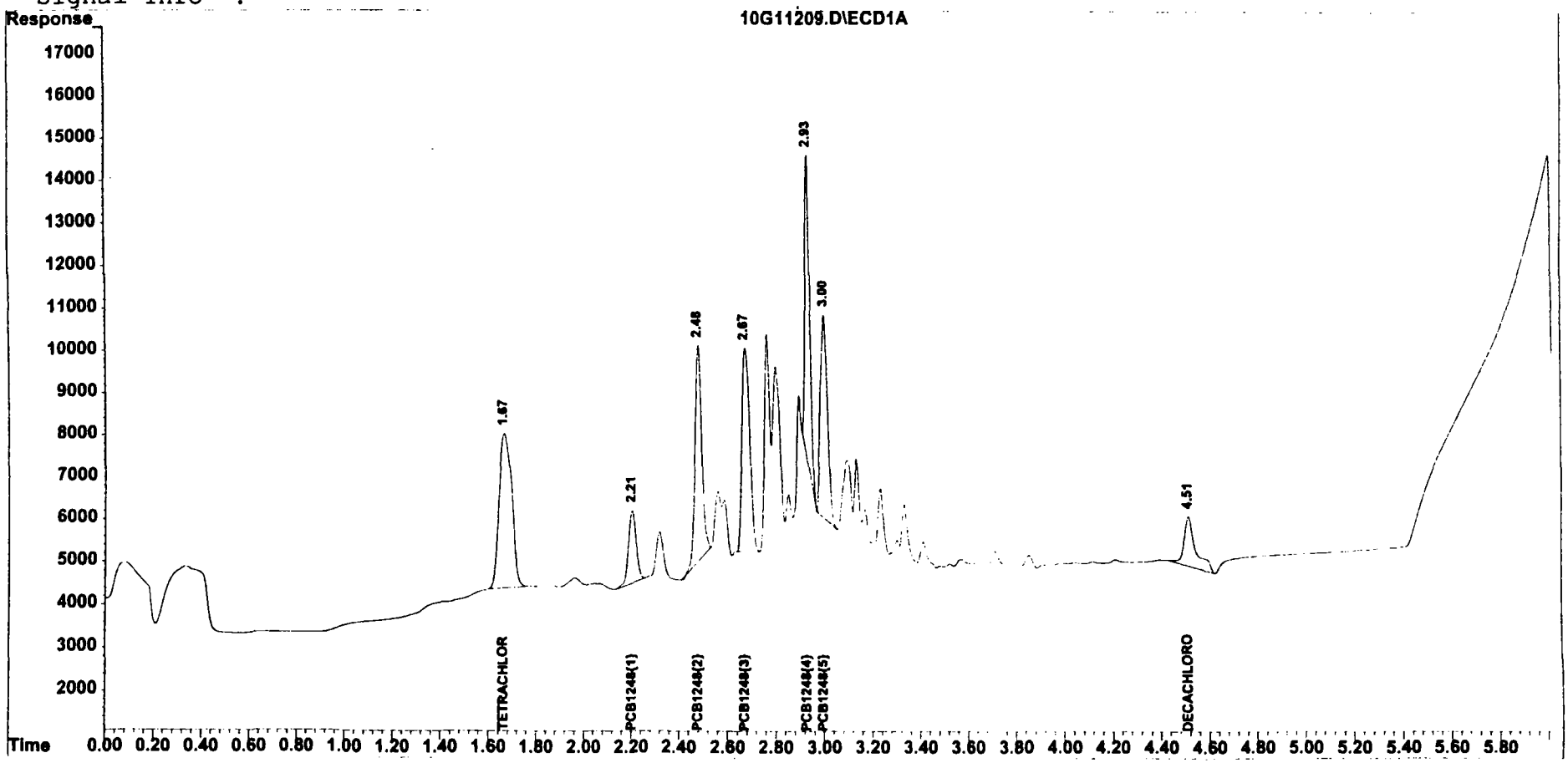
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantification Report

Data File : C:\HPCHEM\2\DATA\102000\10G11209.D Vial: 6
Acq On : 20 Oct 2000 14:43 Operator: SMW
Sample : L0010410-02 MS Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : AUTOINT1.E
Quant Time: Oct 23 13:35 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\2\DATA\102000\10G11210.D Vial: 7
Acq On : 20 Oct 2000 14:51 Operator: SMW
Sample : L0010410-02 MSD Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : events.e
Quant Time: Oct 24 8:51 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	149100	11.205 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	56.03%
12) S DECACHLOROBIPHENYL	4.51	31775	11.927 UG/L m
Spiked Amount 20.000 Range 25 - 140		Recovery =	59.63%
Target Compounds			
2) L1 PCB1016{1}	2.21	40824	1.887 UG/L
3) L1 PCB1016{2}	2.32	23000	1.236 UG/L
4) L1 PCB1016{3}	2.48	100026	2.403 UG/L
5) L1 PCB1016{4}	2.68	119040	4.839 UG/L
6) L1 PCB1016{5}	2.90	14486	1.362 UG/L
Sum PCB1016		297376	11.728 UG/L
Average PCB1016			2.346 UG/L
7) L2 PCB1260{1}	3.00	109094	11.142 UG/L
8) L2 PCB1260{2}	3.30	1086	0.044 UG/L
9) L2 PCB1260{3}	3.41	8026	0.391 UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	3.71	6821	0.205 UG/L
Sum PCB1260		125027	11.781 UG/L
Average PCB1260			2.945 UG/L

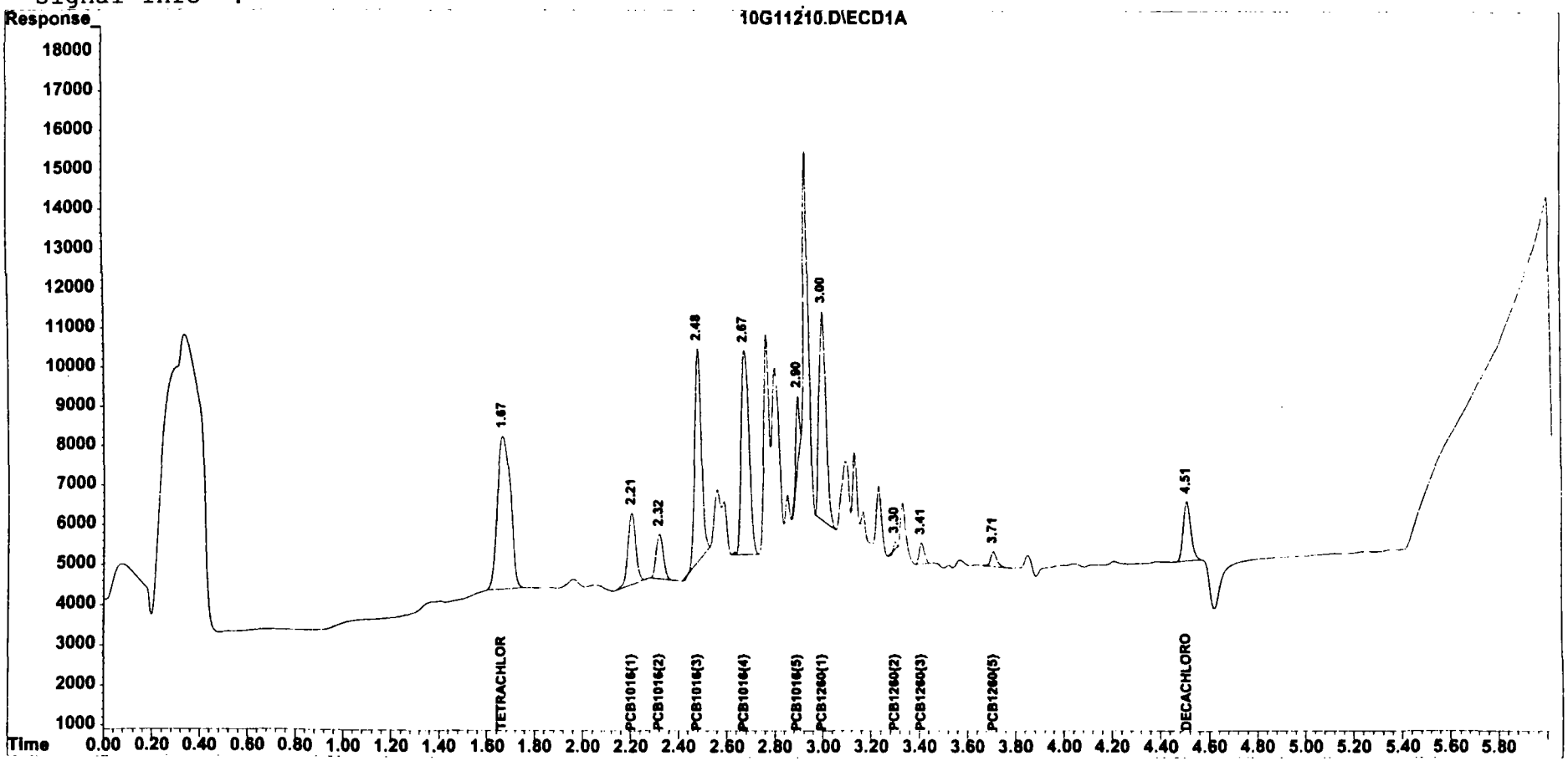
(f)=RT Delta > 1/2 Window (m)=manual int.
10G11210.D 8082EZ.M Tue Oct 24 08:51:40 2000

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11210.D Vial: 7
Acq On : 20 Oct 2000 14:51 Operator: SMW
Sample : L0010410-02 MSD Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : events.e
Quant Time: Oct 24 8:51 2000 Quant Results File: 8082EZ.RES

Quant Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Fri Oct 20 06:18:52 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082EZ.M

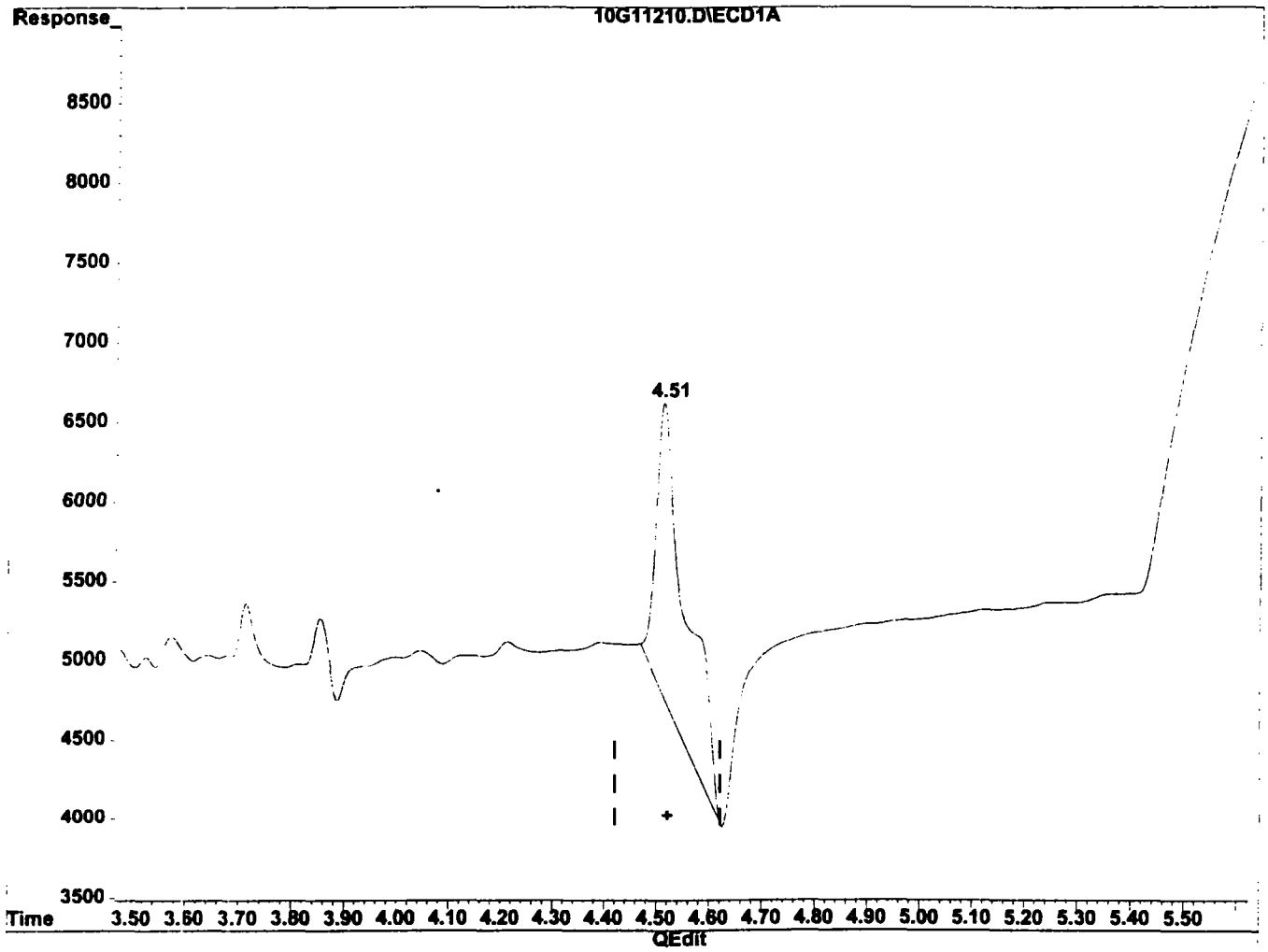
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11210.D Vial: 7
Acq On : 20 Oct 2000 14:51 Operator: SMW
Sample : L0010410-02 MSD Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:33:37 2000
Response via : Multiple Level Calibration



(12) DECACHLOROBIPHENYL (S)

4.51min 28.127UG/L

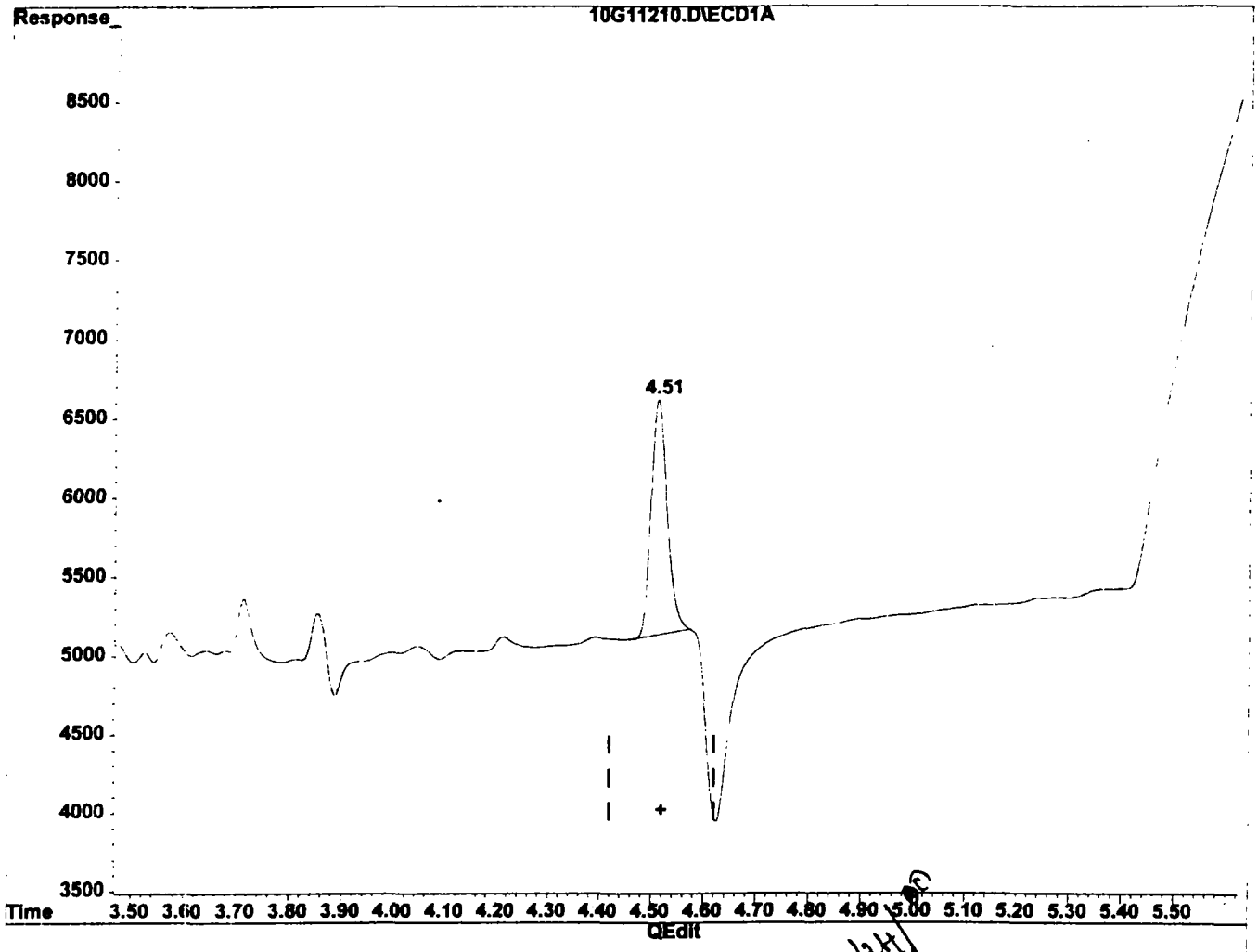
response 74932

(+) = Expected Retention Time

10G11210.D 8082EZ.M Tue Oct 24 08:51:26 2000

Data File : C:\HPCHEM\2\DATA\102000\10G11210.D Vial: 7
Acq On : 20 Oct 2000 14:51 Operator: SMW
Sample : L0010410-02 MSD Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : events.e
Quant Time: Oct 23 8:36 2000 Quant Results File: 8082EZ.RES

Method : C:\HPCHEM\2\METHODS\8082EZ.M (Chemstation Integrator)
Title : PCB CALIBRATION 10/17/00
Last Update : Mon Oct 23 08:33:37 2000
Response via : Multiple Level Calibration



(12) DECACHLOROBIPHENYL (S)

4.51min 11.927UG/L m

response 31775

AV 10/24/00

SMW 10-24-00

(+) = Expected Retention Time
10G11210.D 8082EZ.M Tue Oct 24 08:51:34 2000

Data File : C:\HPCHEM\2\DATA\102000\10G11210.D Vial: 7
Acq On : 20 Oct 2000 14:51 Operator: SMW
Sample : L0010410-02 MSD Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : AUTOINT1.E
Quant Time: Oct 23 13:35 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Initial Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.67	149764	12.138 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.69%
7) S DECACHLOROBIPHENYL	4.51	80420	35.425 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	177.13%#
Target Compounds			
2) L1 PCB1248{1}	2.21	41095	4.635 UG/L
3) L1 PCB1248{2}	2.48	100732	4.215 UG/L
4) L1 PCB1248{3}	2.68	117395	4.089 UG/L
5) L1 PCB1248{4}	2.93	105857	4.568 UG/L
6) L1 PCB1248{5}	3.00	109094	4.592 UG/L
Sum PCB1248		474174	22.100 UG/L
Average PCB1248			4.420 UG/L

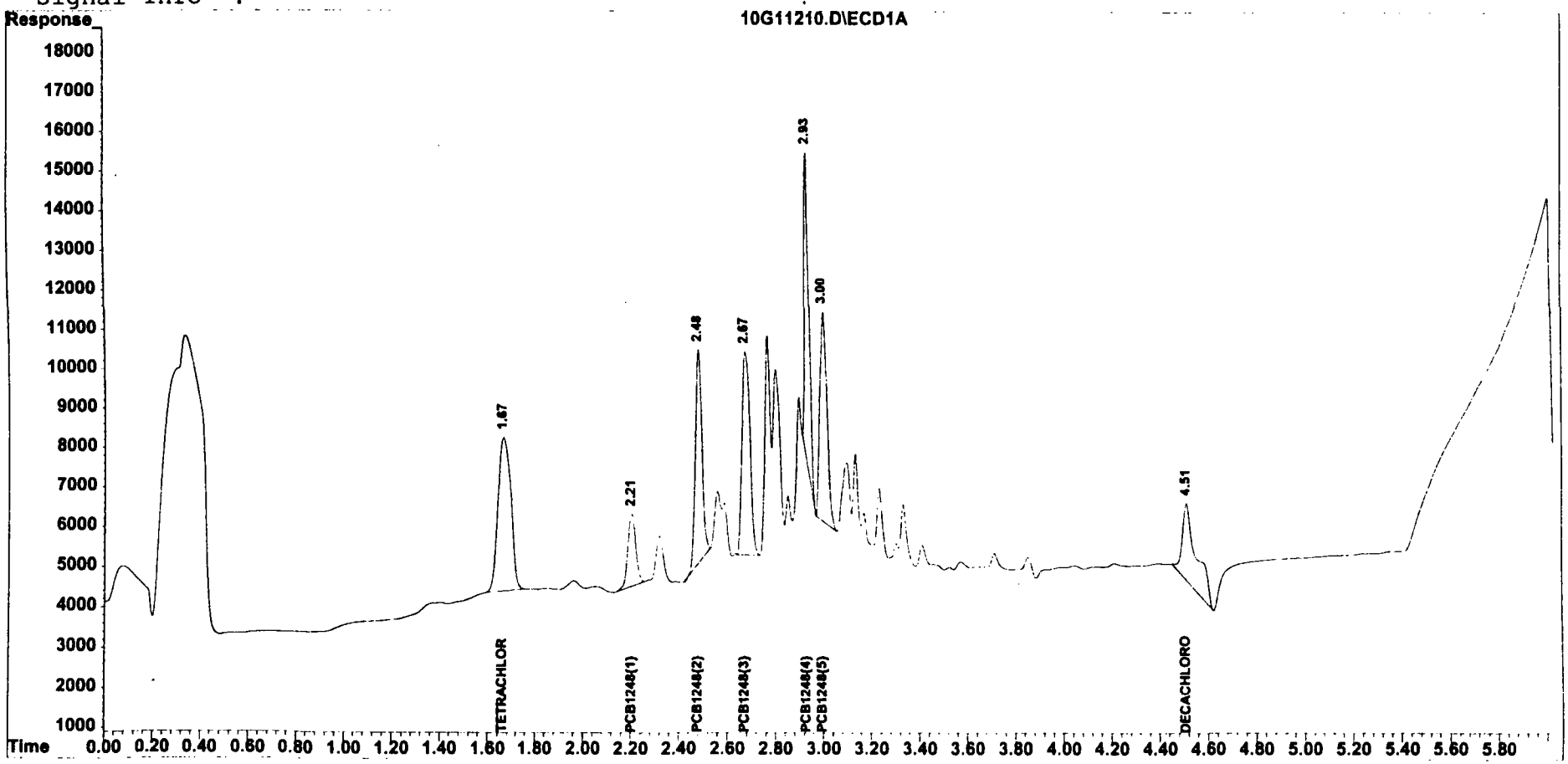
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\102000\10G11210.D Vial: 7
Acq On : 20 Oct 2000 14:51 Operator: SMW
Sample : L0010410-02 MSD Inst : HP10
Misc : WATER Multiplr: 0.02
IntFile : AUTOINT1.E
Quant Time: Oct 23 13:35 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\2\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Mon Oct 23 13:35:02 2000
Response via : Single Level Calibration
DataAcq Meth : 8082EZ.M

Volume Inj. :
Signal Phase :
Signal Info :



202

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-17-00 Column ID RTX-CLP Analyst SMW SOP # GCS09 Rev. # 1 ____ 8081A
Instrument ID HP10 Data Subdirectory 101700 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 ____ 8100 SOP # GCS02 Rev. # 2 ____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 ____ 8151
SOP # GCS03 Rev. # 1 ____ PRO SOP # GCS02 Rev. # 2 ____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 ____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10910980	1660 ✓ SSD-23	1	8082	✓	
83	ICV 1660 2.0 PPM SSD-23			✓	
84	1.0				
85	0.5				
86	0.25				
87	0.1				
88	0.05				
89	ALT 1660 0.5 PPM SAB-10				
90	ICV 1854 2.0 PPM SSD-02				
91	1.0				
92	0.5				
93	0.25				

Comments:

Reviewed By: CLF 10/18/00

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Date 10-17-00 Instrument ID HP10 Data Subdirectory 111700 Column ID ISTK-CLP

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10G 10944	ICV 1254 0.1 PPM SSD-02	1	8082	✓	
95	1 0.05 1				
96	ACT 1254 0.5 PPM S47-47				
97	ICV 1201 0.5 PPM S49-04				
98	1232 S49-31				
99	1242 S49-50				
10G 1100	1248 SSD-01				
1	ACT 1221 SSD-020				
2	1232 S49-32				
3	1242 S47-48				
4	1248 S49-03				
5	~~ACT~~ INST BLK S49-47				
6	BLK V149149 10G 85087-02				
7	CS 1 -03				
8	10G10286-01				
9	-02				
10	-03				
11	-04				
12	-05				
13	-06				
14	-07				
15	-08				
16	1254 ✓ SSD-02				
17	INST BLK S49-47				

Comments:

Reviewed By: CLP 10/19/00

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-17-00 CONT Column ID RTX-CLP Analyst SMW SOP # GCS09 Rev. # 1 _____ 8081A
Instrument ID H/10 Data Subdirectory 101700 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
106 1118	UD10286-09	1	8082	✓	
19	-10				
20	-11				
21	-12				
22	-13				
23	-14				
24	-15				
25	-16				
26	-17				
27	-20				
28	1600 ✓ SSD-23				
29	INJT BLK 349.47				

Comments:

Reviewed By: CLF 10/19/00

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Semivolatile GC Laboratory Maintenance

Date 10-17-0 Instrument ID HP10 ID Subdirectory 101710 Column ID RTX-CL

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10G 1130	LUD10286-21 MS	1	8082	✓	
31	-22 MSD				
32	-23				
33	-24				
34	1254 ✓ SSD-12				
35	INST BLK 549-47				
36	BLK V149075 WG 85779-02				
37	LCS ——— -03				
38	LUD10351-01				
39	-02				
40	-03				
41	-04				
42	-05				
43	-06				
44	-07				
45	-08 SMI-10 11-10				
46	1616 ✓ SSD -23				
47	INST BLK 549-47				
48	LUD10331-09				
49	-10 MS				
50	-11 MSD				
51	-14				
52	-15				
53	-16				

Comments:

Reviewed By: CLK 10/19/05

√ = Complir -t Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-17-00 cont. Column ID RTV-CLP Analyst SMW SOP # GCS09 Rev. # 1 _____ 8081A
Instrument ID HP10 Data Subdirectory 101700 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10G.1154	LUD10331-17	1	8082	✓	
55	-18				
56	-19				
57	-20				
58	1254 ✓ 550-02				
59	INST BLK 549-47				
60	LUD10331-21				
61	1660 ✓ 549-47				
	SMW 10/19/00				

Comments:

Reviewed By: CLK 10/19/00

✓ = Compliant Analysis, Reanalysis complete

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-20-00 Column ID RTX-CLP Analyst SMW SOP # GCS09 Rev. # 1 _____ 8081A
Instrument ID H110 Data Subdirectory 102000 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10G 11204	1600 ✓ SSD-23	1	8082	✓	
5	BLK V149 7139 WG 86036-02				
6	LCS ✓ -03				
7	L0010410-01				
8	-02				
9	-02MS				
10	-02MSD				
11	-03				
12	-04				
13	-05				
14	-06				
15	1600 ✓ SSD-23 0.25PPM				

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun

SMI = Sample matrix interference

Reviewed By: ECZ 10/24/00

Semivolatile GC Laboratory Maintenance / Runlog

Date 10-20-00 Instrument ID HP10 Data Subdirectory 10-2000 Column ID RTX-CLP

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10/11/16	L10000410 -07	1	8082	✓	
17	-08				
18	-09				
19	-10 DUP				
20	1660 ✓ 550-28				
21	10ST BLK 549-47				
22	BLK V149-B125 LWG 810005-02				
23	LCS 1 -03				
24	L00104116 -01				
25	-02				
26	-04				
27	-05 MS				
28	-06 MSD				
29	-07				
30	-08				
31	-09				
32	1254 ✓ 550-02				
33	10ST BLK 549-47				
34	L00104116 -10				
35	-11				
36	L00101428 -01				
37	-02				
38	-03				
39	-04				

Comments:

Reviewed By: ECZ 10/24/00

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-20-00 CONT Column ID RTX-CLP Analyst SMW SOP # GCS09 Rev. # 1 _____ 8081A
Instrument ID HP10 Data Subdirectory 102000 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem: _____

Action Taken: _____

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
10611240	L0010428-05	1	8082	✓	
41	-06				
42	-12				
43	-13				
44	1HUD ✓ 550-23				
45	1DST DLK 549-47				
46	L0010428-14				
47	-15				
48	-16				
49	1254 ✓ 550-02				
	SMW 10-24-00				

Comments:

✓ = Compliant Analysis Reported

Reviewed By: EC 10/24/00

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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-19-00 Column ID [illegible] Analyst [illegible]
Instrument ID HP7 Data Subdirectory 101900
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO)
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol)
SOP # GCS09 Rev. # 1 _____ 8081A
SOP # GCS10 Rev. # 3 _____ 8082
SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes _____ No _____ Additional Discussion on Page _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
TG 9200	ICV 1440 2.0 ppm 5S0-23	1	8082	✓	
61	1.0				
62	0.5				
63	0.25				
64	0.1				
65	0.05				
66	ALT 1440 0.5 ppm 548-12				
67	ICV 1254 2.0 ppm 5S002				
68	1.0				
69	0.5				
70	0.25				
71	0.1				

Comments:

√ = Compliant Analysis. Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI Sample matrix interference
MI Missed Time, beyond method timing requirements
RE Re-extraction analysis

Reviewed By: CLK 10/25/00

PS or SS = Interference with internal and/or surrogate standards
CC Continuing calibration failed

Semivolatile GC Laboratory Maintenance / Runlog

Date 10-19-00 Instrument ID HP7 Data Subdirectory 101900 Column ID A SMW 10-23-00 FRONT CLP II Rtx5

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
Tr 9272	ICV 1254 0.05 PPM SSD-02	1	8082	✓	
73	ALT 1254 0.5 PPM 547-47				
74	ILV 1221 0.5 PPM 549-04				
75	1232 549-31				
76	1242 549-50				
77	1248 SSD-01				
78	ALT 1221 SSD-03A				
79	1232 546-38				
80	1242 547-48				
81	1248 549-03				

SMW 10-23-00

Comments:

Reviewed By: CLK 10/23/00

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 10-24-00 Column ID RTX-CLP1 FRONT Analyst SMO SOP # GCS09 Rev. # 1 _____ 8081A
Instrument ID HP 7 Data Subdirectory 102400 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases ARGON	✓

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes _____ No _____ Additional Discussion on Page _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
79928	1660 ✓ S50-23	1	5082	✓	
29	LCD10410-01				conf. from HP10 10/20/00
30	-10DUP				
31	1660 ✓ S50-23 0.25ppm				
32	1660 ✓ S50-23 0.50ppm				
33	INST BLK S49-47				
34	LCD10478-14 50X	50			conf. from HP10 10/23/00
35	-17 5X	5			
36	1248 ✓ S50-01	1			
37	1660 ✓ S50-23				
38	INST BLK S49-47				
39	LCD10301-01 50X	50			conf from HP10 10/16/00

Comments:

Reviewed By: [illegible]

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed time, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

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Semivolatile GC Laborat[illegible] Maintenance / Runlog

Date 12-21-10 Instrument ID HP7 Data Subdirectory 10241D Column ID RTX-CLP II

Run #	Sample Description	Di[illegible]tion Factor	Method File	Analysis Complete	Comments
78 9340	1242 ✓ S49-50	1	8082	✓	
41	1660 ✓ S50-23				
42	INST BLK S49-47				
43	BLK V149 P183 WG 816239-02				
44	LCS 1 -03				
45	L0810524-01				
46	-02MS				
47	-02MSD				
48	-04				
49	1254 ✓ S50-02				
		0-25-10			
	SMW				

Comments:

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

Reviewed By: [illegible]

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Sample Extract Log Sheet

Volume 149
Page 139

Parameter: PCB H2O SOP #: EXP01 Revision #: 8
Ext Analyst(s): KDS TV/KD Analyst(s): KDS
Date/Time Ext: 10-19-00 @ 16:10 Date TV/KD: 10/19/00
Spike/Surrogate Analyst: JMW Witness: KDS
Extract Relinquished By: MH
Extract Received By: ECZ Date Ext Received: 10/20/00

SW-846 Method			On	Off	On	Off
Continuous L-L	3520C					
Soxhlet	3540C					
ASE *	3545					
Separatory Funnel	3510C	✓				
Sonication	3550B					
Waste	3580A					

Extraction Work Group WG 86036
Analytical Work Group WG 86090

	Client ID	Sample ID	pH <2	pH N	pH >12	Test Code	Initial Vol / Wt	Amount of Surrogate Added	Amount of Spike Added	Final Volume	Extract Color	Emulsion A	Emulsion BN	Emulsion N	Comments
1		Blank					1L	200ul ESS0034-19		10ml	T				WG 86036-02
2		LCS					1		100ul ESS0034-25						WG 86036-03 *
3	OMC	10-410-01				8082	960ml								
4		-02					1L								
5		-02ms					480ml		100ul ESS0034-25						WG 86036-04 *
6		-02msd					1		1						WG 86036-05 *
7		-03					950ml								
8		-04					1								
9		-05					1L								
10		-06					950ml								
11		-07					1L								
12		-08					1								
13		-09					960ml								
14		-10 Dup					1L								Dup of 10-410-01
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

JMW 10-19-00

Reviewed By: [signature] Date: 10/20/00

*Accelerated Solvent Extractor (ASE)

Color Code
T = Transparent
C=Colored
O = Opaque

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Sample Extract Log Sheet

Extraction Comments / Notes For Extraction Volume #: 149 Page #: 139 Work Group: 816036

Solvent: CH_2Cl_2 Lot #: ~~40146~~ 40215 Florisil Lot #: T12550
Solvent: Hexane Lot #: 40160 Silica Gel #: —
Acid: Conc. H_2SO_4 Lot #: T28059 IR Analyst/Date/Time: —
Reagent: 9A:6 Lot #: ER1307 Baked Na_2SO_4 Lot #: ER1076
Reagent: — Lot #: — Earliest Hold Date #: 10/24/00

Clean-up		✓	Clean-up		✓
Florisil	3620B	✓	Sulfur	3660B	
Silica Gel	3630C		Other		
GPC	3640A				
Acid	3665A	✓			

General Comments: 10-410-10 is a Dup of 10-410-01
* LCS & 10-410-02 MS, MSD were spiked with Aroclor 1248 *

Extraction Anomalies: 1248 spk. 100ul was used.

Concentration Anomalies: none

Clean-Up Anomalies: none

Reviewed By: _____ Date: _____

ATTACHMENT 3

GROUNDWATER SAMPLING DATA

3a SAMPLE ANALYSIS
3b *SAMPLE FIELD LOG*

3b

SAMPLING FIELD LOG

LABORATORY NOTEBOOK

OMC

From Page No.

FALL 2000 HARBOR CELL SAMPLING

PERSONNEL: DATE 11-14-2000

DAVE WESMER

CAROL OLMST

WEATHER

TEMP 36°F WIND N/W @15

ACTIVITIES: CONDUCT GROUNDWATER SAMPLING OF HARBOR PROJECT WELLS, SEMI ANNUAL FALL @ 2000

CALIBRATION

PH -	STANDARD	CAL.
	7	6.98
	10	10.01

TURBIDITY

0.00	0.01

SAMPLING OF 3 CELLS BEGINNING WITH SLIP 3, WEST, EAST

VEGETATION COVER - INTACT w/ NO EROSION OR BARE SPOTS. SLIP 3, EAST, WEST

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SLIP 3 WELL 1

SET UP AT 0930
SAMPLE AT 0945

WATER LEVELS
W1 4.67
P1 13.94
FEET TO BOTTOM 9.85
WELL VOLUME .84

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	49.9	2.04	8.03	1.26
10	51.2	1.97	7.48	0.45
15	52.0	1.99	7.24	0.41
20	52.7	2.14	6.92	0.38

SLIP 3 WELL 2

SET UP AT ~~0955~~ 1015
SAMPLE AT ~~1010~~ 1020

WATER LEVELS
P2 15.08
W2 5.25
FEET TO BOTTOM 19.86
WELL VOLUME 2.37

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	47.8	1.92	6.41	2.48
	~~48.3~~	~~1.96~~	~~9.03~~	~~1.05~~
10	50.8	2.04	6.32	0.81
15	52.0	2.05	6.22	0.83
20	52.1	2.05	6.18	0.88

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SLIP 3 WELL 3

WATER LEVELS
W3 3.85
P3 15.83

SET UP AT 1030
SAMPLE AT 1040

FEET TO BOTTOM 24.14
WELL VOLUME 3.30

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	46.1	1.96	6.36	4.00
10	51.1	2.19	6.35	2.07
15	52.4	2.12	6.28	1.42
20	52.8	2.14	6.24	1.25

SLIP 3 WELL 4

WATER LEVELS
P4 16.40
W4 2.47

SET UP AT 0955
SAMPLE AT 1000

FEET TO BOTTOM 17.89
WELL VOLUME 2.50

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	48.8	1.46	7.03	1.05
10	54.4	1.51	6.82	1.03
15	55.7	1.52	6.68	1.14
20	56.1	1.51	6.58	0.71

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EAST CELL WELL 5

WATER LEVEL
P5 14.96
W5 7.65
FEET TO BOTTOM 29.36
WELL VOLUME 3.53

SET UP AT 1140
SAMPLED AT 1150

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	45.6	1.00	6.75	11.3
10	50.3	1.07	6.69	2.61
15	50.1	1.08	6.61	6.21

EAST CELL WELL 6

WATER LEVEL
P6 14.40
W6 6.94
FEET TO BOTTOM 30.70
WELL VOLUME 3.86

SET UP AT 1155
SAMPLED AT 1205

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	48.3	2.76	6.11	3.35
10	50.8	2.83	6.02	3.16
15	51.5	2.91	5.91	1.39
20	51.4	3.05	5.87	1.08

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EAST CELL WELL 7

SET UP AT 1105

SAMPLED AT 1115

WATER LEVEL

P7 13.15

W7 5.54

FEET TO BOTTOM 25.42

WELL VOLUME 3.23

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	46.9	1.18	6.91	3.41
10	51.1	1.26	6.86	5.42
15	53.3	1.30	6.69	4.76

EAST CELL WELL 8

SET UP AT 1125

SAMPLED AT 1135

WATER LEVEL

P8 14.85

W8 6.75

FEET TO BOTTOM 28.74

WELL VOLUME 3.57

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	45.4	1.01	6.77	13.5
10	49.1	1.09	6.72	2.03
15	49.6	1.14	6.65	1.51
20	50.0	1.12	6.60	1.42

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WEST CELL WELL 9
SET UP AT 1220
SAMPLED AT 1230

WATER LEVEL
P9 11.13
W9 5.70
FEET TO BOTTOM 26.81
WELL VOLUME 3.43

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	50.7	3.73	6.04	4.00
10	55.1	2.14	6.09	1.83
15	55.9	2.02	6.10	1.24

WEST CELL WELL 10
SET UP AT 1315
SAMPLED AT 1325

WATER LEVEL
P10 10.70
W10 4.61
FEET TO BOTTOM 25.08
WELL VOLUME 3.32

GAL REMOVED	TEMP	CONDUCTIVITY	pH	TURBIDITY
5	49.7	1.92	6.24	18.3
10	53.8	2.01	6.27	32.2
15	55.6	2.04	6.28	22.2
20	56.1	2.06	6.25	8.65

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WEST CELL WELL 11

SET UP AT 1255

SAMPLED AT 1305

WATER LEVEL

P 11 11.70

W 11 6.37

FEET TO BOTTOM 27.18

WELL VOLUME 3.38

GAL REMOVED	TEMP	CONDUCTIVITY	PH	TURBIDITY
5	46.0	1.80	6.63	8.50
10	53.6	2.12	6.54	1.45
15	55.6	2.05	6.39	1.42

WEST CELL WELL 12

SET UP AT 1235

SAMPLED AT 1245

WATER LEVEL

P 12 9.69

W 12 5.80

FEET TO BOTTOM 28.42

WELL VOLUME 3.67

GAL REMOVED	TEMP	CONDUCTIVITY	PH	TURBIDITY
5	46.3	1.17	6.47	1.78
10	50.6	1.23	6.51	1.50
15	50.3	1.19	6.51	1.06

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ATTACHMENT 4

WELL SAMPLING DATE

1.0 Summary Report

1.1 Laboratory Report

Cover Page
Laboratory Narrative
Laboratory Results

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373 4071

Outboard Marine Corporation
90 Sea Horse Drive
Waukegan, IL 60085

Attention: Tony Montemurro

PO Number:
Account Number: OMC-314

Login #: L0011315
Report Date: 11/22/00
Work ID: SEMI ANNUAL
Date Received: 11/15/00

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0011315-01	W-1	L0011315-02	W-2
L0011315-03	W-3	L0011315-04	W-4
L0011315-05	W-5	L0011315-06	W-6
L0011315-07	W-7	L0011315-08	W-8
L0011315-09	W-9	L0011315-10	W-10
L0011315-11	W-10D	L0011315-12	W-10F
L0011315-13	W-10/MS	L0011315-14	W-10/MSD
L0011315-15	W-11	L0011315-16	W-12
L0011315-17	W-12D		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

L0011315

CHAIN OF CUSTODY:

The chain of custody numbers were 03014 and 03015

SHIPMENT CONDITIONS:

The chain of custody was received sealed in a cooler. The cooler temperatures were 4, 5, 3 and 5 ° C.

SAMPLE MANAGEMENT:

All samples were received intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

REVIEWED: Stephanie Lopez DATE: 11/28/00

REPORT NARRATIVE
GC PCB

KEMRON Report No.:L0011315

METHOD

Preparation: SW- 846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Surrogates: Decachlorobiphenyl % recovery was below acceptable limits in the following sample fractions: -04, -06, -08, -10, -12, -14, -16, -17. Tetrachloro-m-xylene % recovery was within limits. All other acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON *Environmental Services, both technically and for completeness,* except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: Stephanie Lopez DATE: 11/28/00

Rev. 7/14/00

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0011315-01
Client Sample ID: W-1
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 14:14

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9811R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	61.8	(13 - 154%)
Decachlorobiphenyl	47.1	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0011315-02
Client Sample ID: W-2
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 14:33

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9812R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-02
Client Sample ID: W-2
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 14:33

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9812R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	67.9		(13 - 154%)		
	Decachlorobiphenyl.....	28.4		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0011315-03
Client Sample ID: W-3
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 14:52

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9813R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	56.4		(13 - 154%)		
	Decachlorobiphenyl.....	39.6		(25 - 140%)		

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-04
Client Sample ID: W-4
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 15:11

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9814R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	57.6		(13 - 154%)
Decachlorobiphenyl	19.4	*	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0011315-05
Client Sample ID: W-5
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 15:29

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9815R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-05
Client Sample ID: W-5
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 15:29

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9815R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		71.1	(13 - 154%)		
	Decachlorobiphenyl.....		47.2	(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0011315-06
Client Sample ID: W-6
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 15:48

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9816R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		69.6	(13 - 154%)		
	Decachlorobiphenyl.....		24.4 *	(25 - 140%)		

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-07
Client Sample ID: W-7
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 16:07

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9817R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	79.1	(13 - 154%)
Decachlorobiphenyl	52.3	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0011315-08
Client Sample ID: W-8
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 16:26

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9818R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-08
Client Sample ID: W-8
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 16:26

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9818R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		70.9	(13 - 154%)		
	Decachlorobiphenyl.....		19.5 *	(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0011315-09
Client Sample ID: W-9
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 17:03

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9820R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....		56.9	(13 - 154%)		
	Decachlorobiphenyl.....		54.8	(25 - 140%)		

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-10
Client Sample ID: W-10
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 17:22

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9821R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L	0.61		0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	53.7		(13 - 154%)
Decachlorobiphenyl	12.7	*	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0011315-11
Client Sample ID: W-10D
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 17:41

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9822R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L	1.2		0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-11
Client Sample ID: W-10D
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 17:41

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9822R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	76.4		(13 - 154%)		
	Decachlorobiphenyl.....	51.0		(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0011315-12
Client Sample ID: W-10F
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 18:00

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9823R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016.....	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221.....	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232.....	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242.....	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248.....	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254.....	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260.....	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	62.9		(13 - 154%)		
	Decachlorobiphenyl.....	14.8	*	(25 - 140%)		

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-13
Client Sample ID: W-10/MS
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 18:19

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9824R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	% Recovery		NS	0.50	1
11104-28-2	Aroclor-1221	% Recovery		NS	0.50	1
11141-16-5	Aroclor-1232	% Recovery		NS	0.50	1
53469-21-9	Aroclor-1242	% Recovery		NS	0.50	1
12672-29-6	Aroclor-1248	% Recovery	65.0		0.50	1
11097-69-1	Aroclor-1254	% Recovery		NS	0.50	1
11096-82-5	Aroclor-1260	% Recovery		NS	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	76.1	(13 - 154%)
Decachlorobiphenyl	52.1	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0011315-14
Client Sample ID: W-10/MSD
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 18:37

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9825R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	% Recovery		NS	0.50	1
11104-28-2	Aroclor-1221	% Recovery		NS	0.50	1
11141-16-5	Aroclor-1232	% Recovery		NS	0.50	1
53469-21-9	Aroclor-1242	% Recovery		NS	0.50	1
12672-29-6	Aroclor-1248	% Recovery	54.1		0.50	1
11097-69-1	Aroclor-1254	% Recovery		NS	0.50	1
11096-82-5	Aroclor-1260	% Recovery		NS	0.50	1

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-14
Client Sample ID: W-10/MSD
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 18:37

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9825R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene		66.7	(13 - 154%)		
	Decachlorobiphenyl		20.0 *	(25 - 140%)		

Product: 8082 - PCB

Lab Sample ID: L0011315-15
Client Sample ID: W-11
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 18:56

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9826R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene		62.8	(13 - 154%)		
	Decachlorobiphenyl		35.4	(25 - 140%)		

RL = Reporting Limit

Product: 8082 - PCB

Lab Sample ID: L0011315-16
Client Sample ID: W-12
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 19:15

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9827R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

SURROGATES- In Percent Recovery:

2,4,5,6-Tetrachloro-m-xylene	56.1		(13 - 154%)
Decachlorobiphenyl	16.9	*	(25 - 140%)

Product: 8082 - PCB

Lab Sample ID: L0011315-17
Client Sample ID: W-12D
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 19:34

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9828R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
12674-11-2	Aroclor-1016	ug/L		ND	0.50	1
11104-28-2	Aroclor-1221	ug/L		ND	0.50	1
11141-16-5	Aroclor-1232	ug/L		ND	0.50	1
53469-21-9	Aroclor-1242	ug/L		ND	0.50	1
12672-29-6	Aroclor-1248	ug/L		ND	0.50	1
11097-69-1	Aroclor-1254	ug/L		ND	0.50	1
11096-82-5	Aroclor-1260	ug/L		ND	0.50	1

RL = Reporting Limit

16

KEMRON ENVIRONMENTAL SERVICES

Product: 8082 - PCB

Lab Sample ID: L0011315-17
Client Sample ID: W-12D
Site/Work ID: SEMI ANNUAL
Matrix: Water

Dil. Type: N/A
COC Info: 03014/03015/
Date Collected: 11/14/00

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 11/16/00
Analysis Date: 11/17/00 Time: 19:34

Instrument: HP7
Analyst: SMW
Lab File ID: 7G9828R

Method: 8082\3510C
Run ID: R106835
Batch : WG87558

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	SURROGATES- In Percent Recovery:					
	2,4,5,6-Tetrachloro-m-xylene.....	60.6		(13 - 154%)		
	Decachlorobiphenyl.....	15.6	*	(25 - 140%)		

RL = Reporting Limit

Order #: 00-11-315
November 22, 2000 01:56 pm

KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG87451	R106835	L0011315-01		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-02		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-03		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-04		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-05		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-06		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-07		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-08		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-09		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-10		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-11		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-12		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-13		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-14		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-15		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-16		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87451	R106835	L0011315-17		Water	PCB	8082\3510C	14-NOV-2000	Extraction
WG87558	R106835	L0011315-01		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-02		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-03		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-04		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-05		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-06		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-07		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-08		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-09		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-10		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-11		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-12		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-13		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-14		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-15		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-16		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC
WG87558	R106835	L0011315-17		Water	PCB	8082\3510C	14-NOV-2000	Semivolatile - GC

1.2 Attachments

KEMRON ANALYST LIST

Ohio Valley Laboratory

10/27/2000

ABW - ANGELA B. WIGAL
ADK - ALISHA D. KINDLER
AJF - AMANDA J. FICKIESEN
AJN - AMANDA J. NOLAND
ALT - ANN L. THAYER
AMT - ANDREA M. TUCKER
ARS - ANGELINA R. SCOTT
BJM - BARRY J. MYERS
BRG - BRENDA R. GREGORY
CAF - CHERYL A. FLOWERS
CAK - CHERYL A. KOELSCH
CBN - CHARLES B. NOLL
CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD
CLK - CARL L. KING
CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEVENS
CRC - CARLA R. COCHRAN
CSH - CHRIS S. HILL
DAM - DAN A. MUSGRAVE
DAS - DALLAS A. SULLIVAN
DAT - DEBBIE A. TORNES
DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG
DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON
DLA - DENISE L. ADAMS
DLB - DAVID L. BUMGARNER
DLN - DEANNA L. NORTON
DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH
DMD - DAVID M. DYE
DP - DEANNA L. PIERSON
DST - DENNIS S. TEPE
DTK - DEENA T. KELLEY
EAN - ELIZABETH A. NICHOLSON
EAW - ELIZABETH A. WEBER
ECL - ERIC C. LAWSON
EIE - ELIZABETH I. EAGLE
GSG - GALEN S. GEORGE
GWH - GEORGE W. HUTCHISON
HD - HEATH DENNIS
HV - HEMA VILASAGAR
JAQ - JEROMY A. QUESENBERRY
JAW - JOYCE A. WITHERS
JDN - JAMIE D. NEWELL
JKM - JUNE K. MORRIS
JKW - JANE K. WARDEN
JLH - JANICE L. HOLLAND
JMM - JARROD M. MARTIN
JMT - JOY M. THOMAS
JMW - JOHN M. WASS
JRM - JAY R. MCDOUGAL
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KDS - KRISTI D. STONE
KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON
KSL - KELLY S. LAUER
LKN - LINDA K. NEDEFF
LLB - LORI L. BRADLEY
LSA - LUCINDA S. ARNOLD
LSB - LESLIE S. BUCINA
MDA - MICHAEL D. ALBERTSON
MDC - MICHAEL D. COCHRAN
MDG - MELISSA D. GRIMES
MEF - MIKE E. FLANAGAN
MES - MARY E. SCHILLING
MLS - MICHAEL L. SCHIMMEL
MMB - MAREN M. BEERY
MSW - MATT S. WILSON
NJB - NATALIE J. BOOTH
PML - PAULA M. LEIDY
RDC - REBECCA D. CUTLIP
REF - RON E. FERTILE
REK - ROBERT E. KYER
RJW - RHONDA J. WITTEKIND
RLW - RON L. WATSON
RSH - RENEE S. HENNES
RSS - REGINA S. SIMMONS
RWC - ROD W. CAMPBELL
SJK - SINDY J. KINNEY
SLP - SHERI L. PFALZGRAF
SLT - STEPHANIE L. TEPE
SMW - SHAUNA M. WELCH
SPL - STEVE P. LEARN
SPS - STEVE P. SWATZEL
TAY - TODD A. YOAK
TJH - TIM J. HOEFLICH
TLD - TERESA L. DAVIS
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS
September 7, 2000

Qualifier	Description
A	See the report narrative
NA	Not applicable
+	Correlation coefficient for the MSA is less than 0.995
<	Less than
>	Greater than
B	Present in the method blank
C	Confirmed by GC/MS
*	Surrogate or spike compound out of range
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike was diluted out
E	Estimated concentration due to sample matrix interference
F	Present below nominal reporting limit (AFCEE only)
FL	Free liquid
I	Semiquantitative result, out of instrument calibration range
J	Present below nominal reporting limit
L	Sample reporting limits elevated due to matrix interference
M	Duplicate injection precision not met

Qualifier	Description
N	Tentatively Identified Compound (TIC)
ND	Not detected at or above the reporting limit (RL)
NF	Not found
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentration > 40% difference between the two GC columns
QNS	Quantity not sufficient to perform analysis
R	Analyte exceeds regulatory limit
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TNTC	Too numerous to count
U	Analyzed for but not detected
W	Post-digestion spike for furnace AA out of control limits
Z	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

OMC

OUTBOARD MARINE CORPORATION

CHAIN OF CUSTODY

UMC FACILITY: OMC WAUKEGAN

PHONE NO.: 847/689-5363

ADDRESS:

SAMPLE COLLECTED BY: (Please Print) DAVID R WESNER

(SIGNATURE)

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	PCB								GRAB
W-10	11-14-00			2	X								
W-10D	11-14			2	X								
W-10 F	11-14			2	X								
W-10 MS	11-14			2	X								
W-10 MSD	11-14			2	X								
W-11	11-14			2	X								
W-12	11-14			2	X								
W-12D	11-14			2	X								

TRANSFER NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1			11/14/00	
2			11/15/00	1002
3		C/C Sealed Samples intact Cooler temp 5.3		

DISTRIBUTION:

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CANARY- ACCOMPANIES SHIPMENT (COURIER COPY)

PINK- OMC FILE

No. 03015

9933-13111

OMC

OUTBOARD MARINE CORPORATION

CHAIN OF CUSTODY

OMC FACILITY: OMC WAUKEGAN

PHONE NO.: 847/689-5363

ADDRESS:

SAMPLE COLLECTED BY: (Please Print) DAVID R WESNER

(SIGNATURE)

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	PCB								COMMENTS
W-1	11-14-00			2	X								GRAB
W-2	11-14			2	X								
W-3	11-14			2	X								
W-4	11-14			2	X								
W-5	11-14			2	X								
W-6	11-14			2	X								
W-7	11-14			2	X								
W-8	11-14			2	X								
W-9	11-14			2	X								

TRANSFER NUMBER	RELINQUISHED BY (Signature)	ACCEPTED BY (Signature)	DATE	TIME
1			11/14/00	
2		Natalie Lee A	11/15/00	1002
3		C/C Sealed Samples intact Cooler temp 4.3.5		

DISTRIBUTION:

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CANARY- ACCOMPANIES SHIPMENT (COURIER COPY)

PINK- OMC FILE

No. 03014

9933-13111

C" 43

K RON Environmental Services

SAMPLES RECEIPT FORM #1

Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
DMC BRG / Other	11-15-00	( ) FED-EX ( ) AIRBORNE (✓) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT

COOLER ID: KL911	COOLER ID: KL817	COOLER ID: KL505
INDEX #: 1Z605897014822 5149	INDEX #: 1Z605897014713975 5	INDEX #: 1Z605897 0148850386
SEALED (✓) YES ( ) NO	SEALED (✓) YES ( ) NO	SEALED (✓) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY (✓) YES ( ) NO	CUSTODY (✓) YES ( ) NO
TEMP: (A) (B) (C) 4 °C	TEMP: (A) (B) (C) 5 °C	TEMP: (A) (B) (C) 3 °C
TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO
WET ICE ( ) BLUE ICE (✓)	WET ICE ( ) BLUE ICE (✓)	WET ICE ( ) BLUE ICE (✓)
ICE FROZEN (✓) MELTED ( )	ICE FROZEN (✓) MELTED ( )	ICE FROZEN (✓) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED (✓) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO
pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE NA	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE NA	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE NA
LOG-IN COMMENTS W1-W4	LOG-IN COMMENTS W10, 10F, 10 DUP 10 MS / 10 MSD	LOG-IN COMMENTS 12, 12 DUP, W11, W9

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 10/19/00

CP-#3

KEMRON Environmental Services — SAMPLES RECEIPT FORM #1 — Marietta Laboratory

CLIENT:	DATE:	SHIPPED BY:
UMC	11-15-00	( ) FED EX ( ) AIRBORNE (✓) UPS ( ) EMERY ( ) RPS ( ) US MAIL ( ) KEMRON ( ) CLIENT
(BRG) Other _____		

COOLER ID: KMDP 102	COOLER ID:	COOLER ID:
INDEX #: 1Z605 897 01 48 307 375	INDEX #:	INDEX #:
SEALED (✓) YES ( ) NO	SEALED ( ) YES ( ) NO	SEALED ( ) YES ( ) NO
CUSTODY (✓) YES ( ) NO	CUSTODY ( ) YES ( ) NO	CUSTODY ( ) YES ( ) NO
TEMP: (A) (B) (C) 5 °C	TEMP: (A) (B) (C) °C	TEMP: (A) (B) (C) °C
TEMP IN RANGE (4°C ± 2°) (✓) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO	TEMP IN RANGE (4°C ± 2°) ( ) YES ( ) NO
WET ICE ( ) BLUE ICE (✓)	WET ICE ( ) BLUE ICE ( )	WET ICE ( ) BLUE ICE ( )
ICE FROZEN ( ) MELTED (✓)	ICE FROZEN ( ) MELTED ( )	ICE FROZEN ( ) MELTED ( )
RADIATION CHECKED (✓) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO	RADIATION CHECKED ( ) YES ( ) NO
SAMPLE INTACT (✓) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO	SAMPLE INTACT ( ) YES ( ) NO SALVAGEBLE ( ) YES ( ) NO
SAMPLE TYPE: WATER (✓) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )	SAMPLE TYPE: WATER ( ) SOIL ( ) OTHER ( )
LABELS: INTACT (✓) YES ( ) NO LEGIBLE (✓) YES ( ) NO MATCH COC (✓) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO	LABELS: INTACT ( ) YES ( ) NO LEGIBLE ( ) YES ( ) NO MATCH COC ( ) YES ( ) NO
pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE NA	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) ( ) YES ( ) NO AS APPROPRIATE
LOG-IN COMMENTS W7, W8, W6 W5	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:

COMMENTS: ( ) VOICE ( ) FAX ( ) E-MAIL

Revised 10/19/00

2.0 Full Sample Data Package

2.2 Semivolatiles Data

2.2.3 PCB GC Data (8082)

REPORT NARRATIVE
GC PCB

KEMRON Report No.:L0011315

METHOD

Preparation: SW-846 3550B(Soils) 3510C(Waters)
Analysis: SW-846 8082

HOLDING TIMES

Sample Preparation: All holding times were met.
Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial calibrations: For all compounds which yielded a %RSD greater than 20 %, linear or higher order equations were applied. All acceptance criteria were met.
Alternate Source Standards: All acceptance criteria were met.
Continuing Calibration: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.
Laboratory Control Samples: All acceptance criteria were met.
Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Surrogates: Decachlorobiphenyl % recovery was below acceptable limits in the following sample fractions: -04, -06, -08, -10, -12, -14, -16, -17. Tetrachloro-m-xylene % recovery was within limits. All other acceptance criteria were met.
Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: SMW REVIEWED: [signature] DATE: 11/29/00

Rev. 7/14/00

PCB-GC DATA (8082)

Login Number: 6011.85

A. QC Summary

✓ Batch QC Summary Form

B. Sample Data

✓ Target Compound List results and surrogate recoveries - See section 1.0 (c) (laboratory report)

✓ Chromatogram and external standard report for each sample analysis and re-analysis (if re-analyzed).

C. Standards Data

✓ Initial calibration summary form (Average Response Factor Calibration Data)

✓ Chromatograms and external standard reports for standards

✓ Calibration verification standards (Continuing Calibration Data) initial and ending checks, chromatograms and external standard reports (chronological)

____ Retention time window summary (if applicable)

D. Raw QC Data

✓ Method Blank, chromatogram and external standard report for each matrix type

✓ Laboratory Control Sample, chromatogram and external standard report for each matrix type

____ Matrix Spike/Matrix Spike Duplicate, chromatograms and external standard reports (if not reported as samples)

✓ Instrument runlogs

✓ Extraction bench sheets

Checked By: SMW Date: 11-8-00

2.2.3.1 QC Summary

KEMRON ENVIRONMENTAL SERVICES
MARIETTA, OH
QUALITY CONTROL SUMMARY / PCB WATERS , REAR

INSTRUMENT : HP7
EXT'N DATE : 11/16/2000 ANALYST : SMW BLK FLNM : 7G9809R SMPL ID : L0011315-12
EXT'N BENCH SHT : V151P49 RUN DATE : 11/17/2000 LCS FLNM : 7G9810R SMPL FLNM : 7G9823R
EXT'N WORK GRP : WG87451 ANAL WORK GRP : WG87558 MS FLNM : 7G9824R
MSD FLNM : 7G9825R

COMPOUND	RDL	CONCENTRATION , ug/L					% RECOVERY									PERCENT						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	RPD	RPD Advisory Limits	Blank	LCS	Sample	MS	MSD
AROCLOR 1016	0.5	ND	NA	ND	NA	NA	NA	NA	39	113	NA	NA	NA	39	113	NA	0-46					
AROCLOR 1221	0.5	ND	NA	ND	NA	NA	NA	NA	15	175	NA	NA	NA	15	175	NA	0-38					
AROCLOR 1232	0.5	ND	NA	ND	NA	NA	NA	NA	15	210	NA	NA	NA	15	210	NA	0-35					
AROCLOR 1242	0.5	ND	NA	ND	NA	NA	NA	NA	35	154	NA	NA	NA	35	154	NA	0-35					
AROCLOR 1248	0.5	ND	2.48	ND	3.25	2.71	NA	99.1	34	116	NA	65.0	54	34	116	18.3	0-31					
AROCLOR 1254	0.5	ND	NA	ND	NA	NA	NA	NA	25	135	NA	NA	NA	25	135	NA	0-36					
AROCLOR 1260	0.5	ND	NA	ND	NA	NA	NA	NA	44	129	NA	NA	NA	44	129	NA	0-41					
SURROGATES																						
2,4,5,6-TETRACHLORO-M-XYLENE		7.40	12.9	12.5	15.2	13.3	37.0	64.7	13	154	62.6	76.1	66.7	13	154							
DECACHLOROBIPHENYL		8.73	9.69	2.95	10.4	4.01	43.7	48.4	25	140	14.8	52.1	20 0	25	140					L		L

NOTES & DEFINITIONS :

LCS, MS & MSD spiked at 2.5 ug/L LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 20 ug/L MS=MATRIX SPIKE
NA = NOT APPLICABLE MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

2.2.3.2 Sample Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9811R.D Vial: 54
Acq On : 17 Nov 2000 14:14 Operator: SMW
Sample : L0011315-01 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

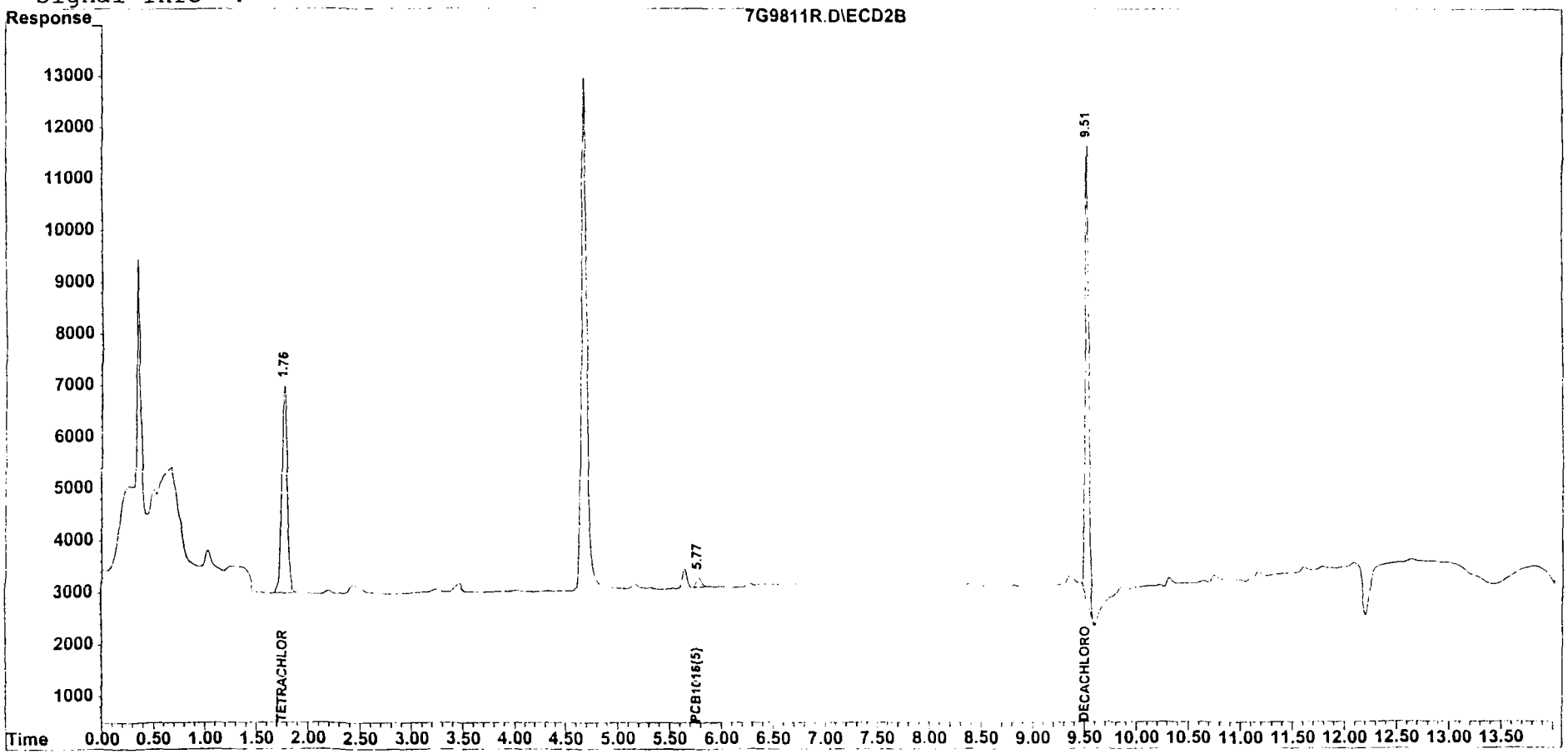
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	145924	12.356 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	61.78%
12) S DECACHLOROBIPHENYL	9.51	215002	9.421 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	47.11%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	5.77	6430	0.148 UG/L
Sum PCB1016		6430	0.148 UG/L
Average PCB1016			0.148 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9811R.D Vial: 54
Acq On : 17 Nov 2000 14:14 Operator: SMW
Sample : L0011315-01 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9812R.D Vial: 55
Acq On : 17 Nov 2000 14:33 Operator: SMW
Sample : L0011315-02 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	160429	13.584 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	67.92%
10) S DECACHLOROBIPHENYL	9.51	129820	5.688 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	28.44%
Target Compounds			
2) I1 PCB1016(1)	0.00	0	N.D. UG/L
3) I1 PCB1016(2)	0.00	0	N.D. UG/L
4) I1 PCB1016(3)	0.00	0	N.D. UG/L
5) I1 PCB1016(4)	0.00	0	N.D. UG/L
6) I1 PCB1016(5)	5.77	7193	0.166 UG/L
Sum PCB1016		7193	0.166 UG/L
Average PCB1016			0.166 UG/L
7) I2 PCB1260(1)	6.14	2608	0.080 UG/L
8) I2 PCB1260(2)	0.00	0	N.D. UG/L
9) I2 PCB1260(3)	0.00	0	N.D. UG/L
10) I2 PCB1260(4)	0.00	0	N.D. UG/L
11) I2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		2608	0.080 UG/L
Average PCB1260			0.080 UG/L

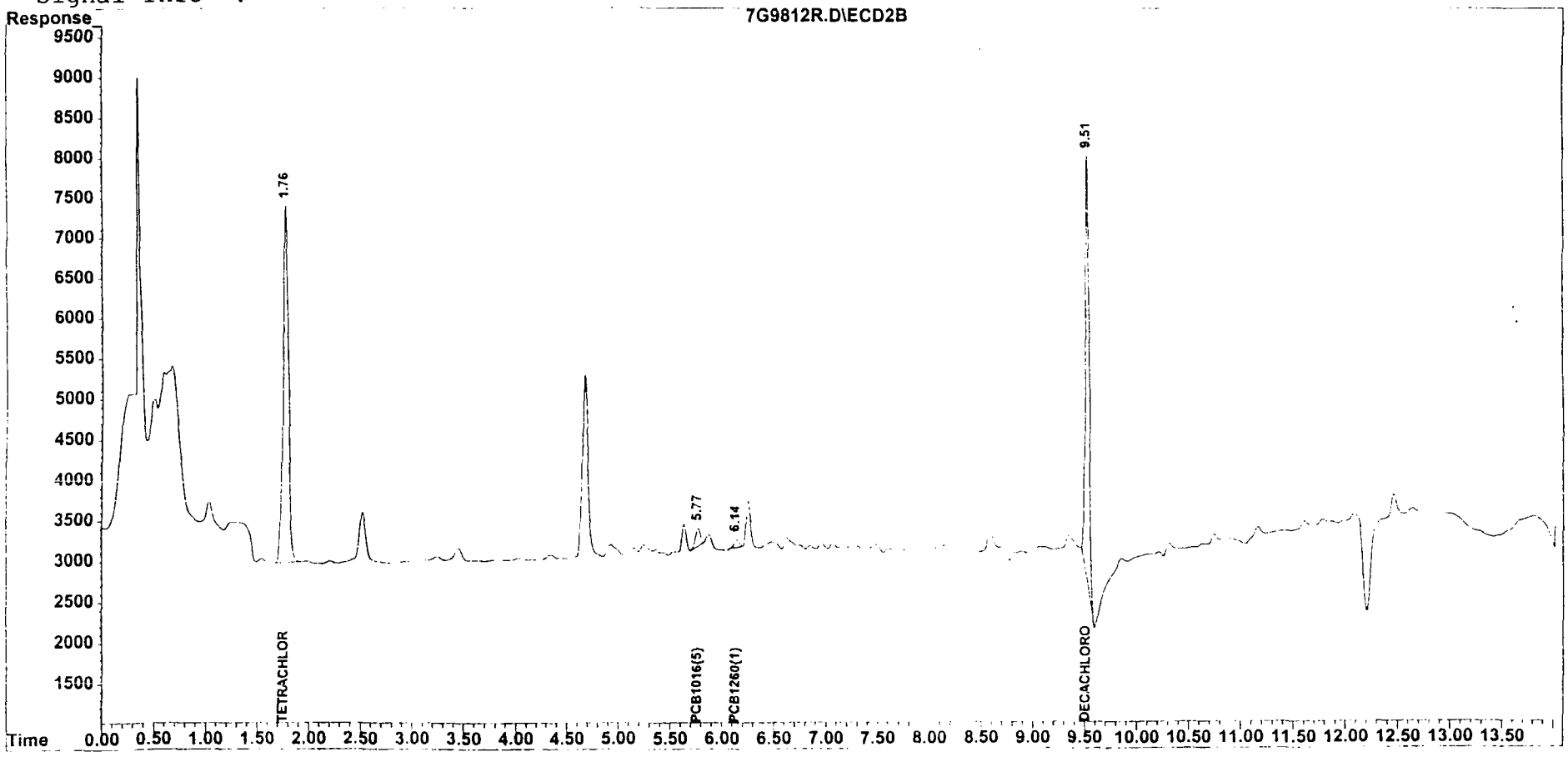
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9812R.D 8082R.M Mon Nov 20 10:46:21 2000 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9812R.D Vial: 55
Acq On : 17 Nov 2000 14:33 Operator: SMW
Sample : L0011315-02 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9813R.D Vial: 56
Acq On : 17 Nov 2000 14:52 Operator: SMW
Sample : L0011315-03 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

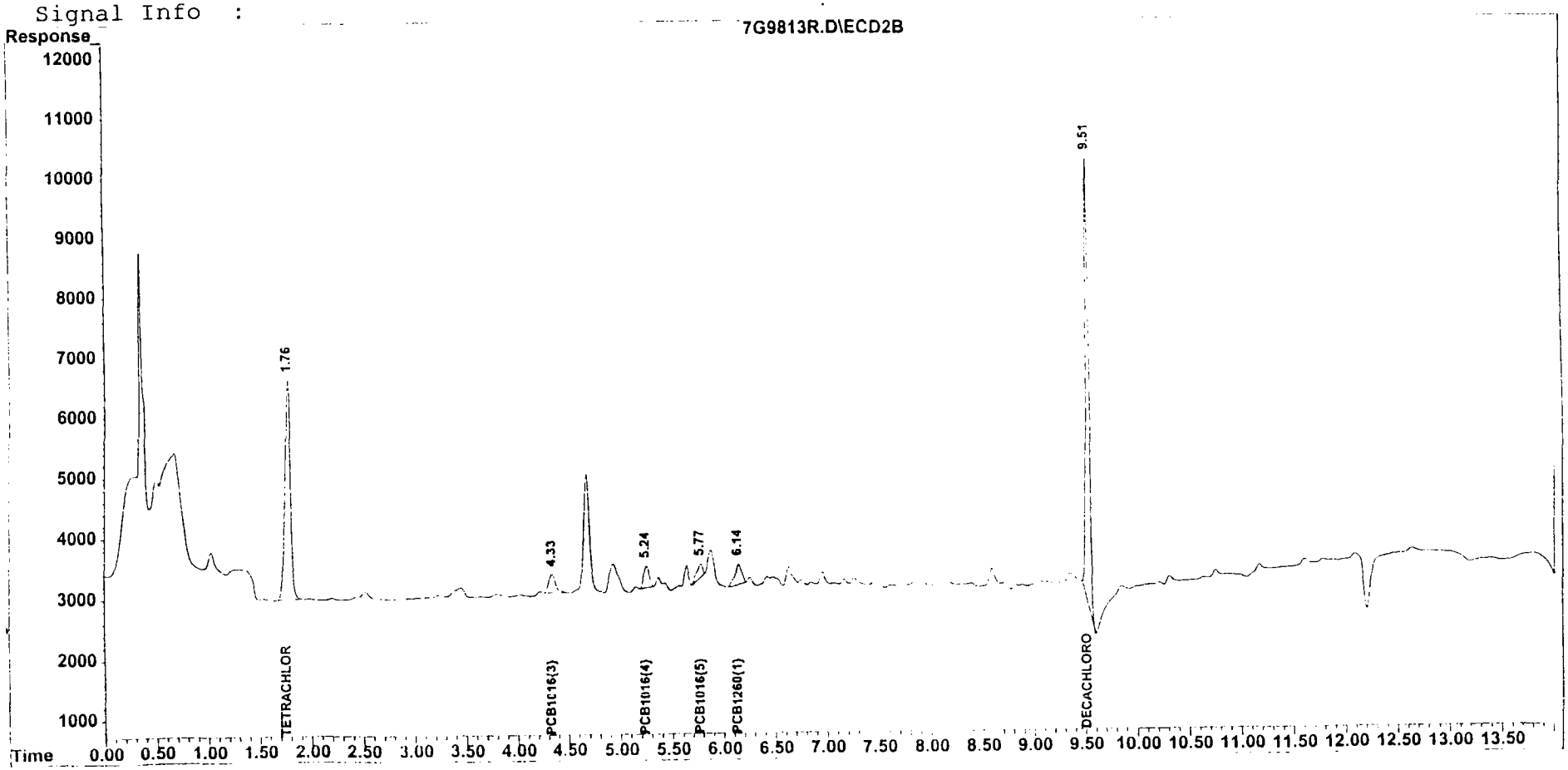
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	133122	11.272 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	56.36%
12) S DECACHLOROBIPHENYL	9.52	180636	7.915 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	39.58%
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	4.34	15161	0.152 UG/L
5) L1 PCB1016(4)	5.25	357	0.295 UG/L
6) L1 PCB1016(5)	5.77	8906	0.205 UG/L
Sum PCB1016		24424	0.651 UG/L
Average PCB1016			0.217 UG/L
7) L2 PCB1260(1)	6.14	15946	0.490 UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		15946	0.490 UG/L
Average PCB1260			0.490 UG/L

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9813R.D Vial: 56
Acq On : 17 Nov 2000 14:52 Operator: SMW
Sample : L0011315-03 Inst : HP7
Misc : WATER Multipl: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9814R.D Vial: 57
Acq On : 17 Nov 2000 15:11 Operator: SMW
Sample : L0011315-04 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	136131	11.527 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	57.63%
12) S DECACHLOROBIPHENYL	9.51	88385	3.873 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	19.37%#
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	0.00	0	N.D. UG/L
6) L1 PCB1016(5)	5.77	7486	0.172 UG/L
Sum PCB1016		7486	0.172 UG/L
Average PCB1016			0.172 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

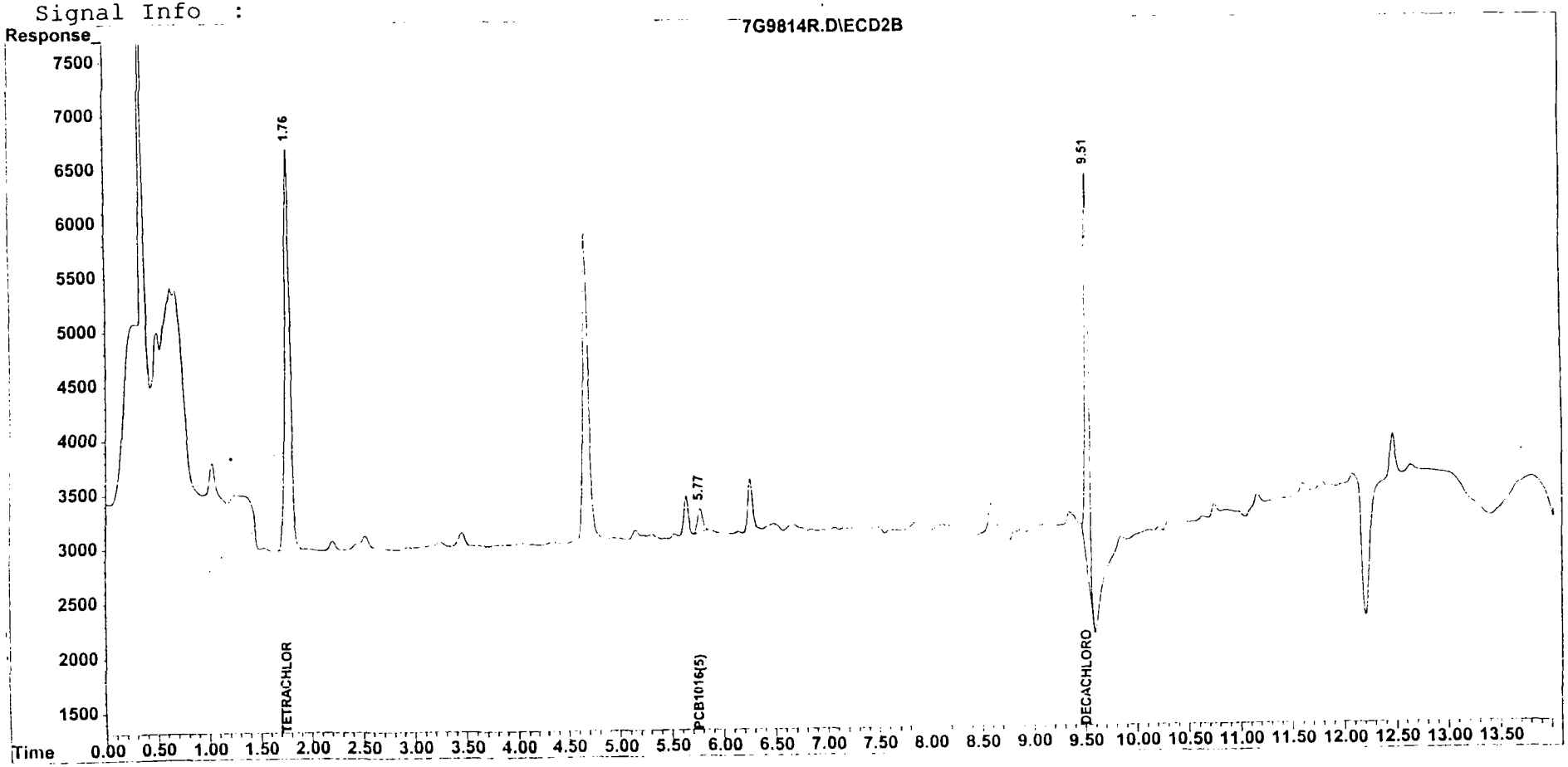
Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9814R.D
Acq On : 17 Nov 2000 15:11
Sample : L0011315-04
Misc : WATER
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Vial: 57
Operator: SMW
Inst : HP7
Multipl: 0.01

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9815R.D Vial: 58
Acq On : 17 Nov 2000 15:29 Operator: SMW
Sample : L0011315-05 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	167868	14.214 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	71.07%
12) S DECACHLOROBIPHENYL	9.52	215249	9.431 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	47.15%
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	5.24	119	0.099 UG/L
6) L1 PCB1016(5)	5.78	5399	0.124 UG/L
Sum PCB1016		5519	0.223 UG/L
Average PCB1016			0.111 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

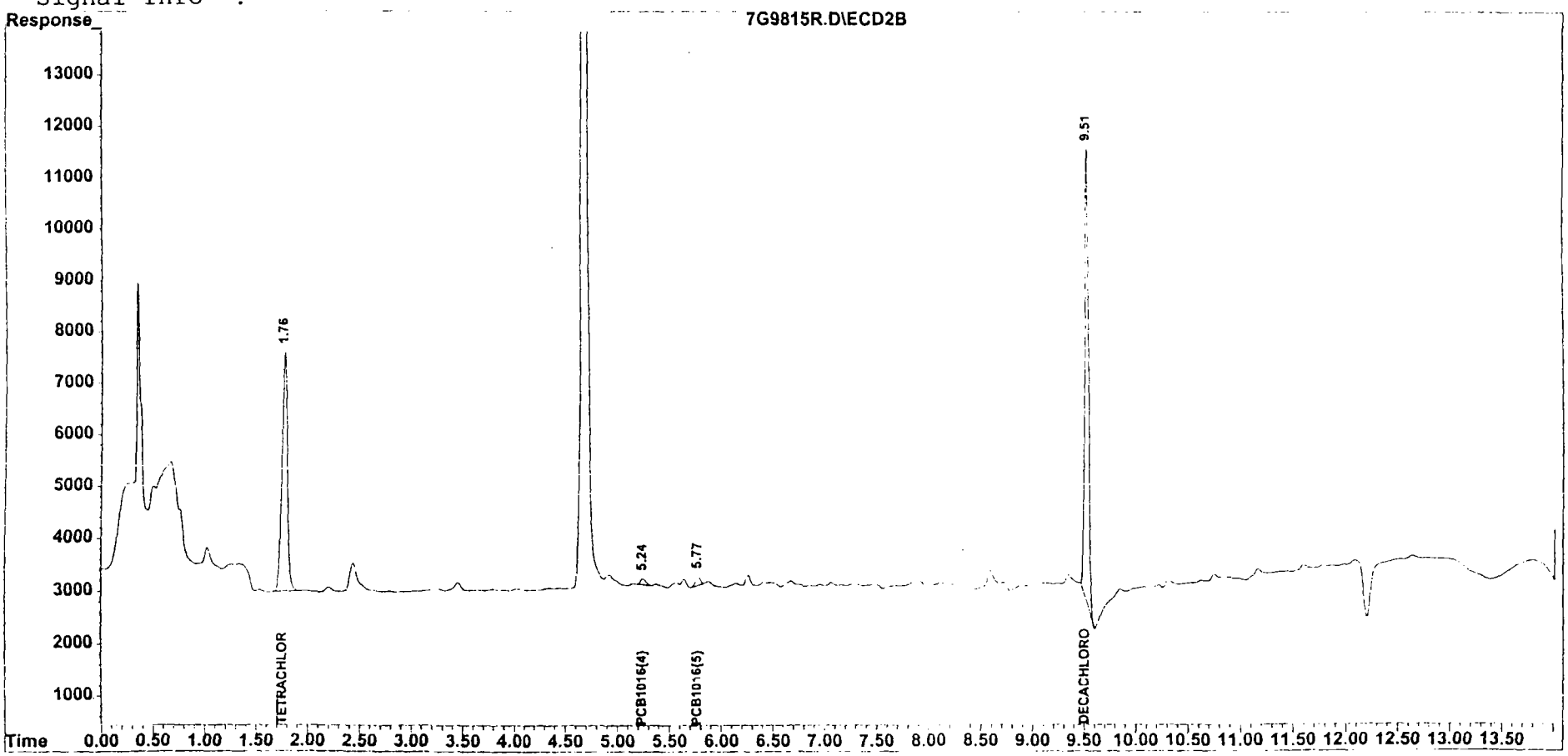
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9815R.D Vial: 58
Acq On : 17 Nov 2000 15:29 Operator: SMW
Sample : L0011315-05 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9816R.D Vial: 59
Acq On : 17 Nov 2000 15:48 Operator: SMW
Sample : L0011315-06 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	164391	13.919 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	69.60%
12) S DECACHLOROBIPHENYL	9.52	111387	4.881 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	24.41%#
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	5.77	8797	0.202 UG/L
Sum PCB1016		8797	0.202 UG/L
Average PCB1016			0.202 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

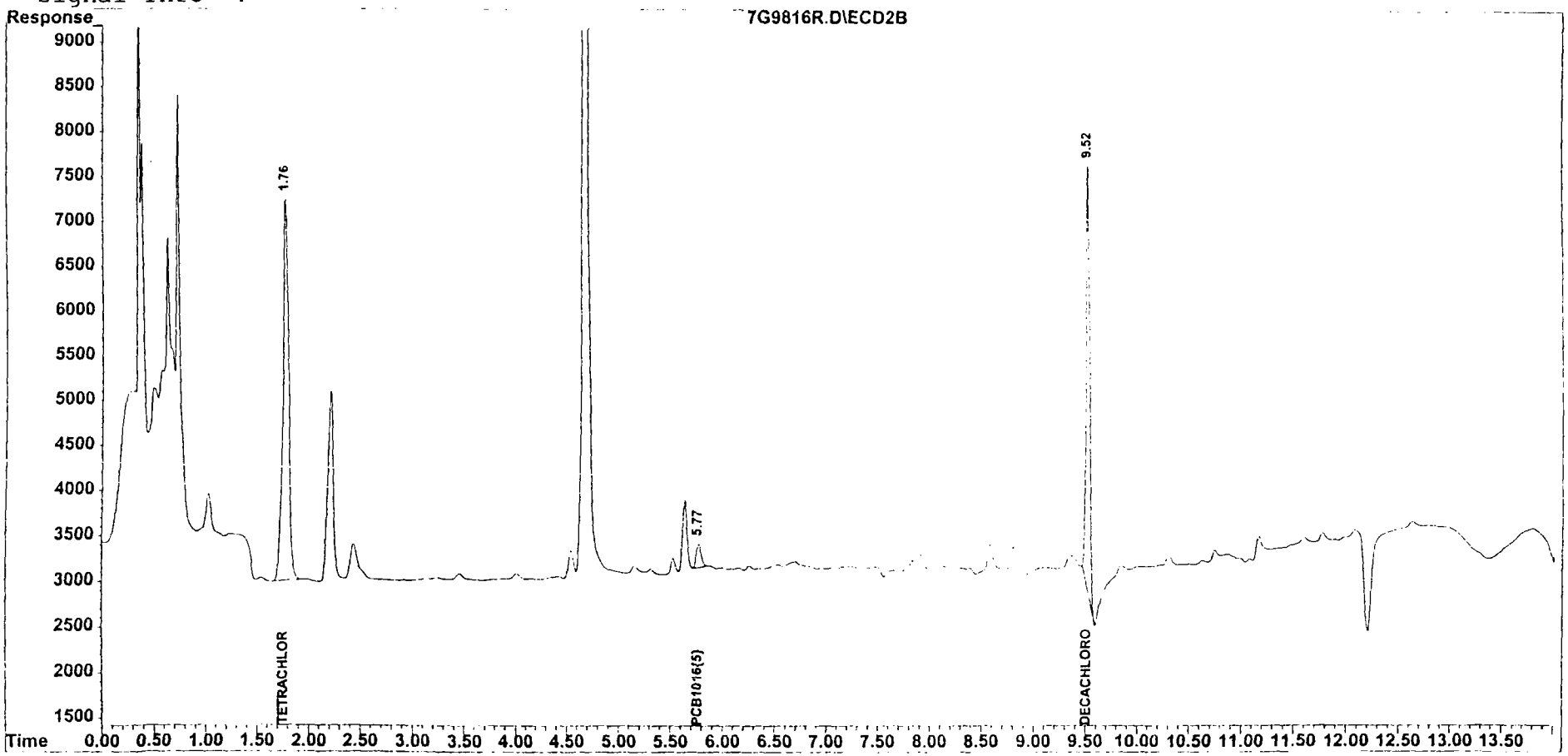
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9816R.D Vial: 50
Acq On : 17 Nov 2000 15:48 Operator: SMW
Sample : L0011315-06 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9817R.D Vial: 60
Acq On : 17 Nov 2000 16:07 Operator: SMW
Sample : L0011315-07 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	186778	15.815 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	79.07%
12) S DECACHLOROBIPHENYL	9.52	238837	10.465 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	52.33%
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	0.00	0	N.D. UG/L
6) L1 PCB1016(5)	5.77	24864	0.572 UG/L
Sum PCB1016		24864	0.572 UG/L
Average PCB1016			0.572 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

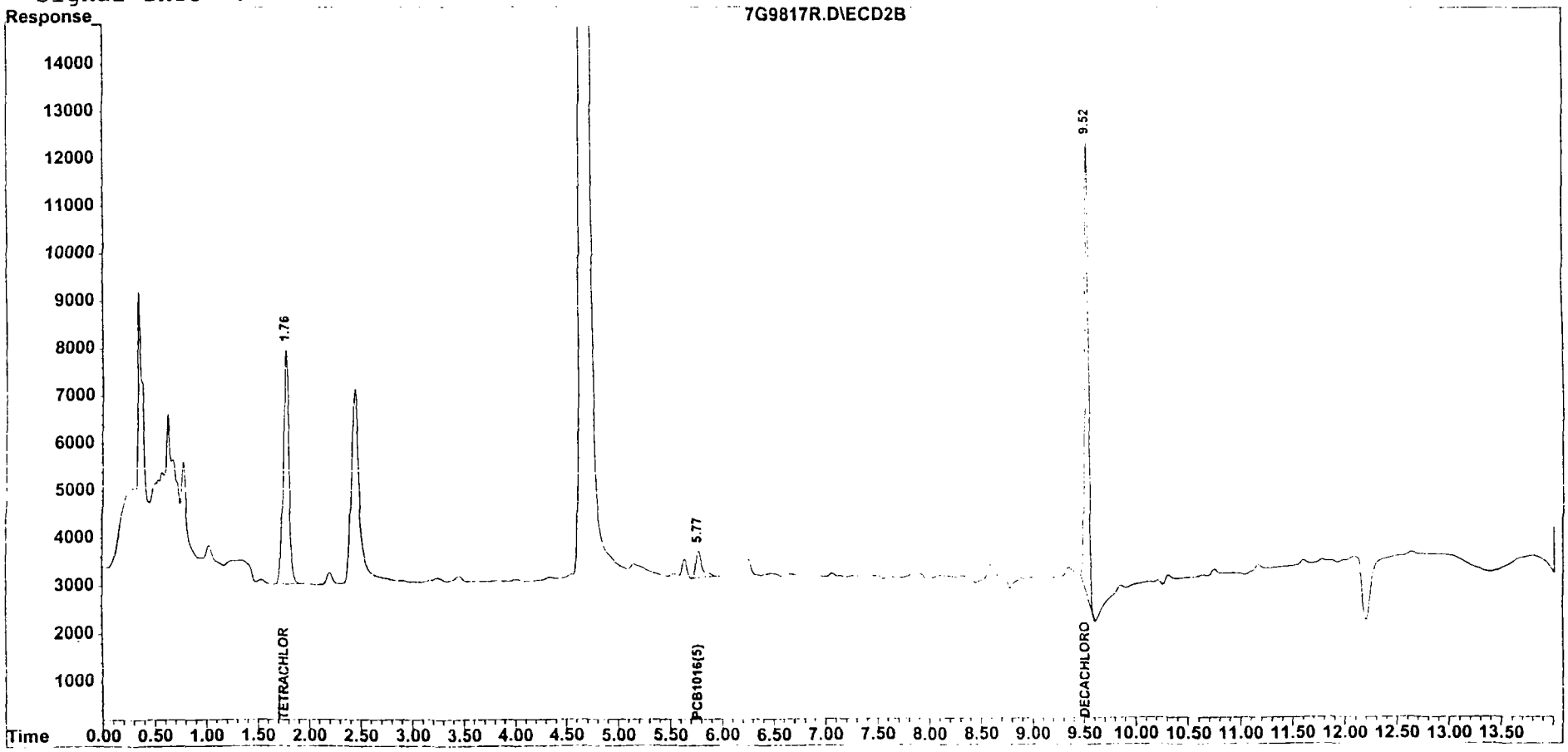
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9817R.D Vial: 60
Acq On : 17 Nov 2000 16:07 Operator: SMW
Sample : L0011315-07 Inst : HP7
Misc : WATER Multiplr: 0.01
Intfile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9818R.D Vial: 61
Acq On : 17 Nov 2000 16:26 Operator: SMW
Sample : L0011315-08 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	167376	14.172 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	70.86%
12) S DECACHLOROBIPHENYL	9.52	89108	3.904 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	19.52%#
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	0.00	0	N.D. UG/L
6) L1 PCB1016(5)	5.77	5803	0.134 UG/L
Sum PCB1016		5803	0.134 UG/L
Average PCB1016			0.134 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

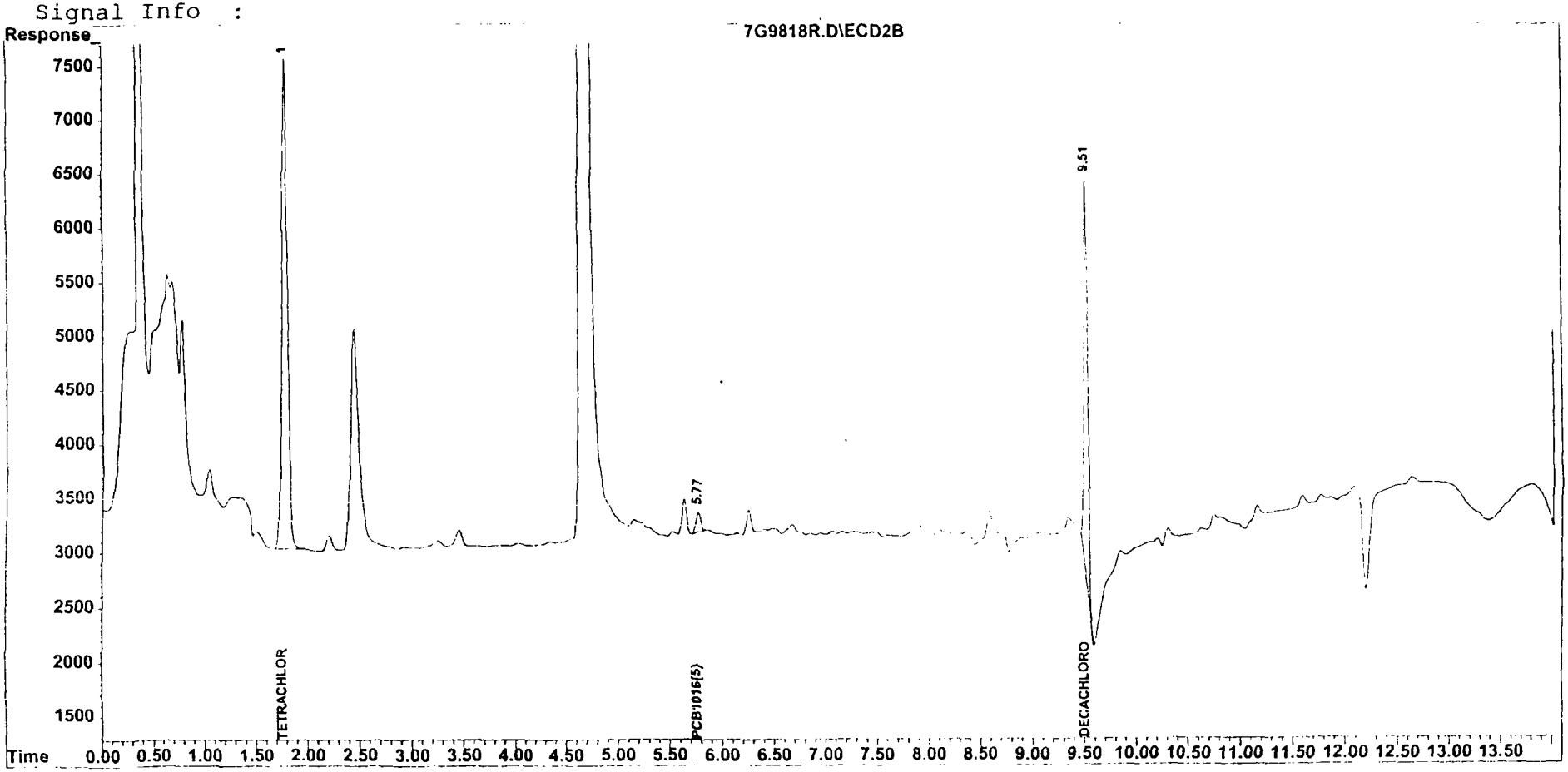
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9818R.D Vial: 61
Acq On : 17 Nov 2000 16:26 Operator: SMW
Sample : L0011315-08 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9820R.D Vial: 63
Acq On : 17 Nov 2000 17:03 Operator: SMW
Sample : L0011315-09 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	134487	11.387 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	56.94%
12) S DECACHLOROBIPHENYL	9.52	250196	10.963 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	54.81%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	5.77	9856	0.227 UG/L
Sum PCB1016		9856	0.227 UG/L
Average PCB1016			0.227 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	7.50f	6113	0.052 UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		6113	0.052 UG/L
Average PCB1260			0.052 UG/L

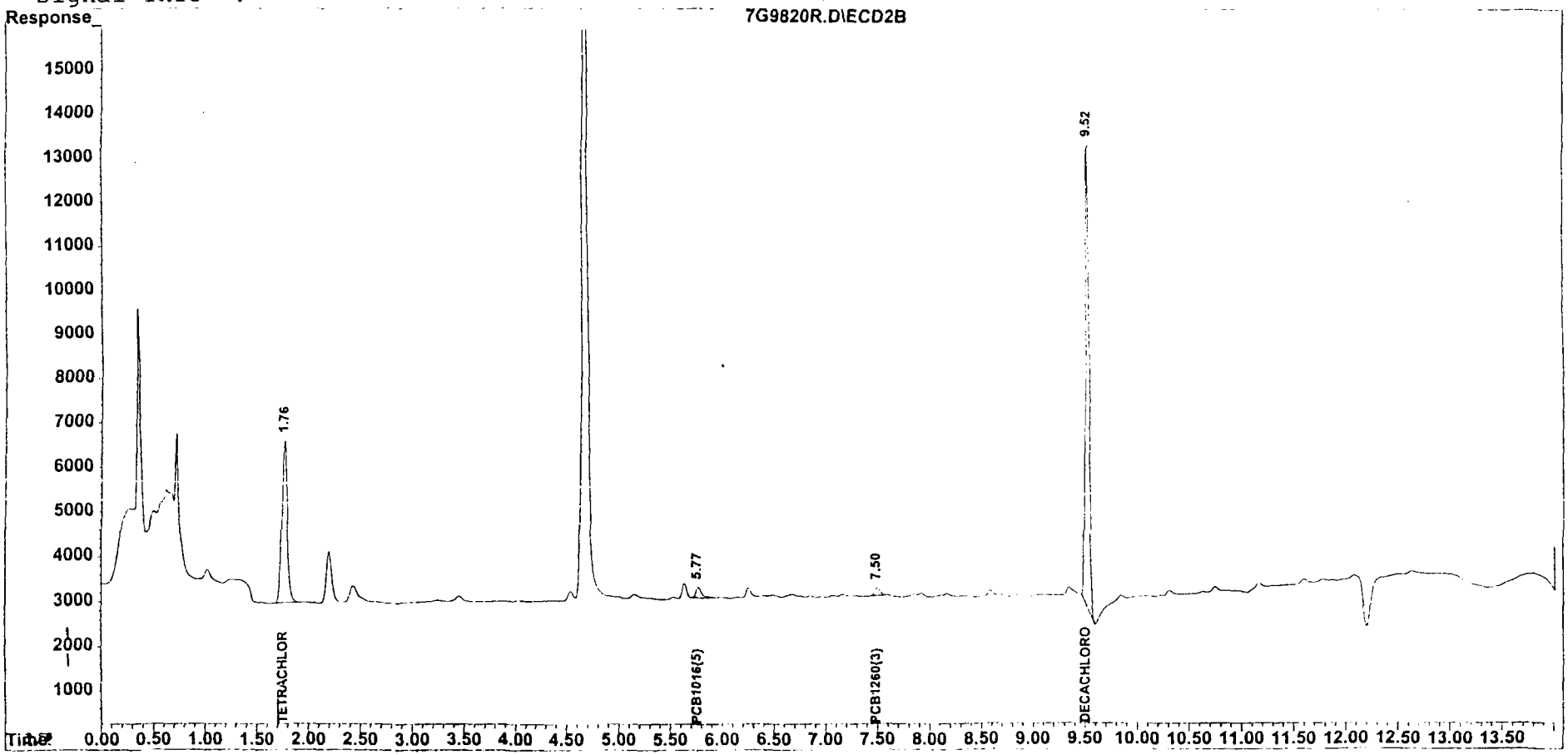
50

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700.SEQ\7G9820R.D Vial: 63
Acq On : 17 Nov 2000 17:03 Operator: SDW
Sample : L0011315-09 Inst : HP7
Misc : WATER Multipl: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9821R.D Vial: 64
Acq On : 17 Nov 2000 17:22 Operator: SMW
Sample : L0011315-10 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	126906	10.745 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	53.73%
12) S DECACHLOROBIPHENYL	9.51	57885	2.536 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	12.68%#
Target Compounds			
2) L1 PCB1016{1}	3.38	68250	1.005 UG/L
3) L1 PCB1016{2}	3.82	33122	0.738 UG/L
4) L1 PCB1016{3}	4.33	52948	0.530 UG/L
5) L1 PCB1016{4}	5.25	1103	0.910 UG/L
6) L1 PCB1016{5}	5.78	6820	0.157 UG/L
Sum PCB1016		162243	3.340 UG/L
Average PCB1016			0.668 UG/L
7) L2 PCB1260{1}	6.14	18151	0.557 UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		18151	0.557 UG/L
Average PCB1260			0.557 UG/L

1248

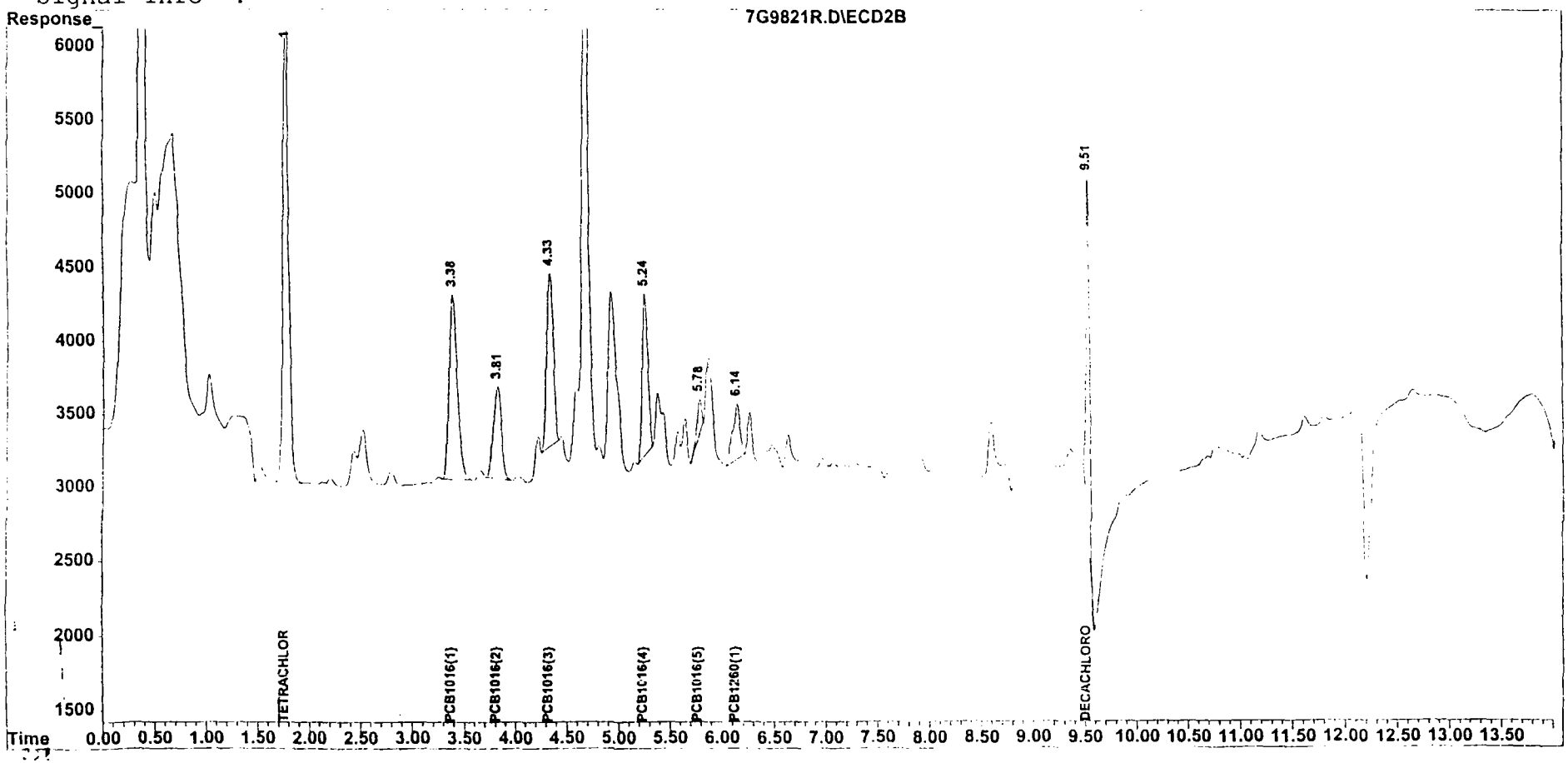
52

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9821R.D Vial: 64
Acq On : 17 Nov 2000 17:22 Operator: SMW
Sample : L0011315-10 Inst : HP7
Misc : WATER Multipl: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9821R.D Vial: 64
Acq On : 17 Nov 2000 17:22 Operator: SMW
Sample : L0011315-10 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 11:09 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	127090	12.085 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.43%
7) S DECACHLOROBIPHENYL	9.51	60699	2.922 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	14.61%#
Target Compounds			
2) T1 PCB1248{1}	4.33	52948	0.928 UG/L
3) T1 PCB1248{2}	4.92	66593	0.714 UG/L
4) T1 PCB1248{3}	5.25	41190	0.838 UG/L
5) T1 PCB1248{4}	5.86	18574	0.235 UG/L
6) T1 PCB1248{5}	6.63	6954	0.314 UG/L
Sum PCB1248		186260	3.030 UG/L
Average PCB1248			0.606 UG/L

54

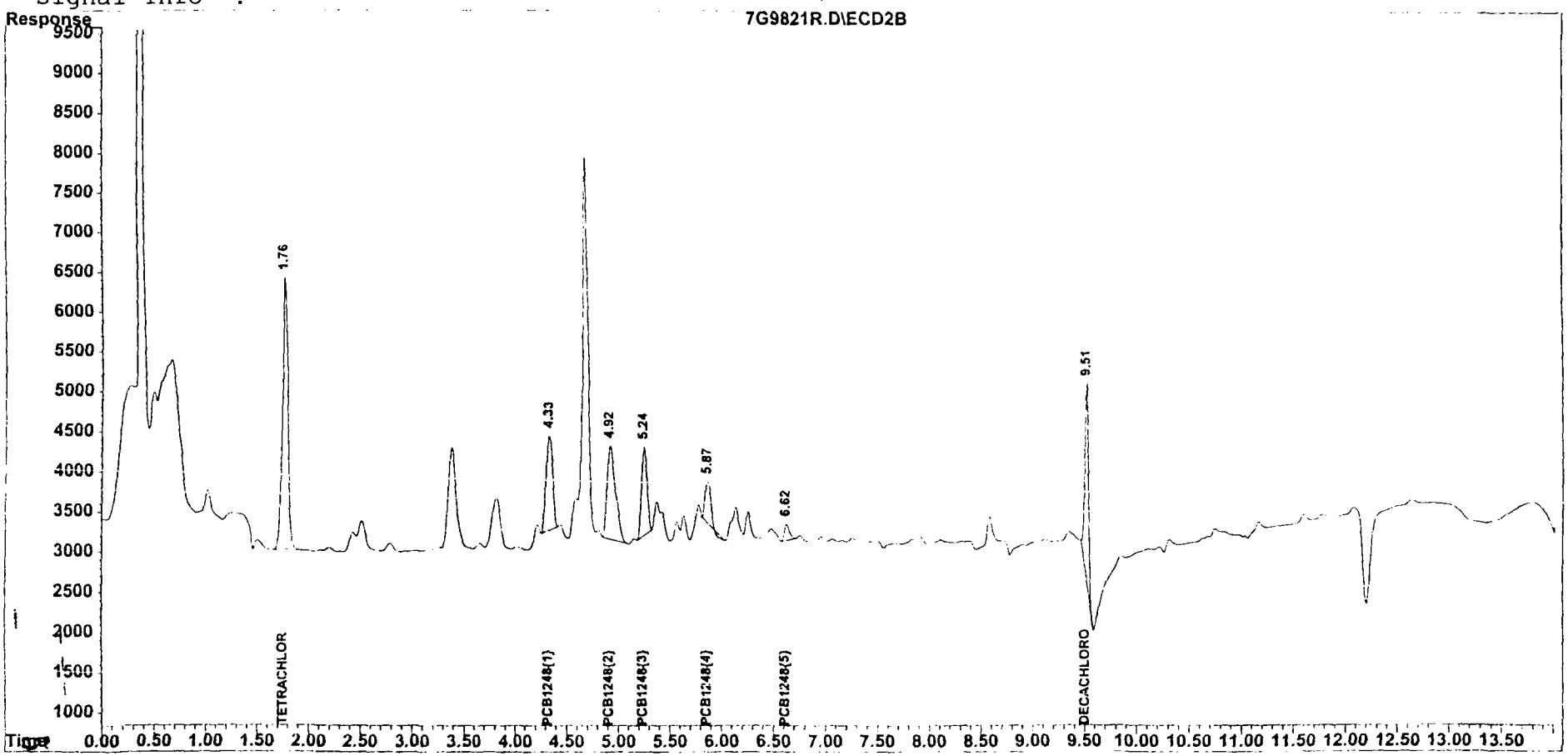
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9821R.D Vial: 64
Acq On : 17 Nov 2000 17:22 Operator: SMW
Sample : L0011315-10 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 11:09 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\112800\7G9860.D Vial: 3
Acq On : 28 Nov 2000 10:13 Operator: SMW
Sample : L0011315-10 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 28 10:48 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	121691	15.838 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	79.19%
7) S DECACHLOROBIPHENYL	10.94	45154	5.400 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	27.00%
Target Compounds			
2) L1 PCB1248(1)	5.90	66620	1.280 UG/L
3) L1 PCB1248(2)	6.88	26041	0.944 UG/L
4) L1 PCB1248(3)	7.20f	6347	0.359 UG/L
5) L1 PCB1248(4)	0.00	0	N.D. UG/L
6) L1 PCB1248(5)	0.00	0	N.D. UG/L
Sum PCB1248		99008	2.583 UG/L
Average PCB1248			0.861 UG/L

56

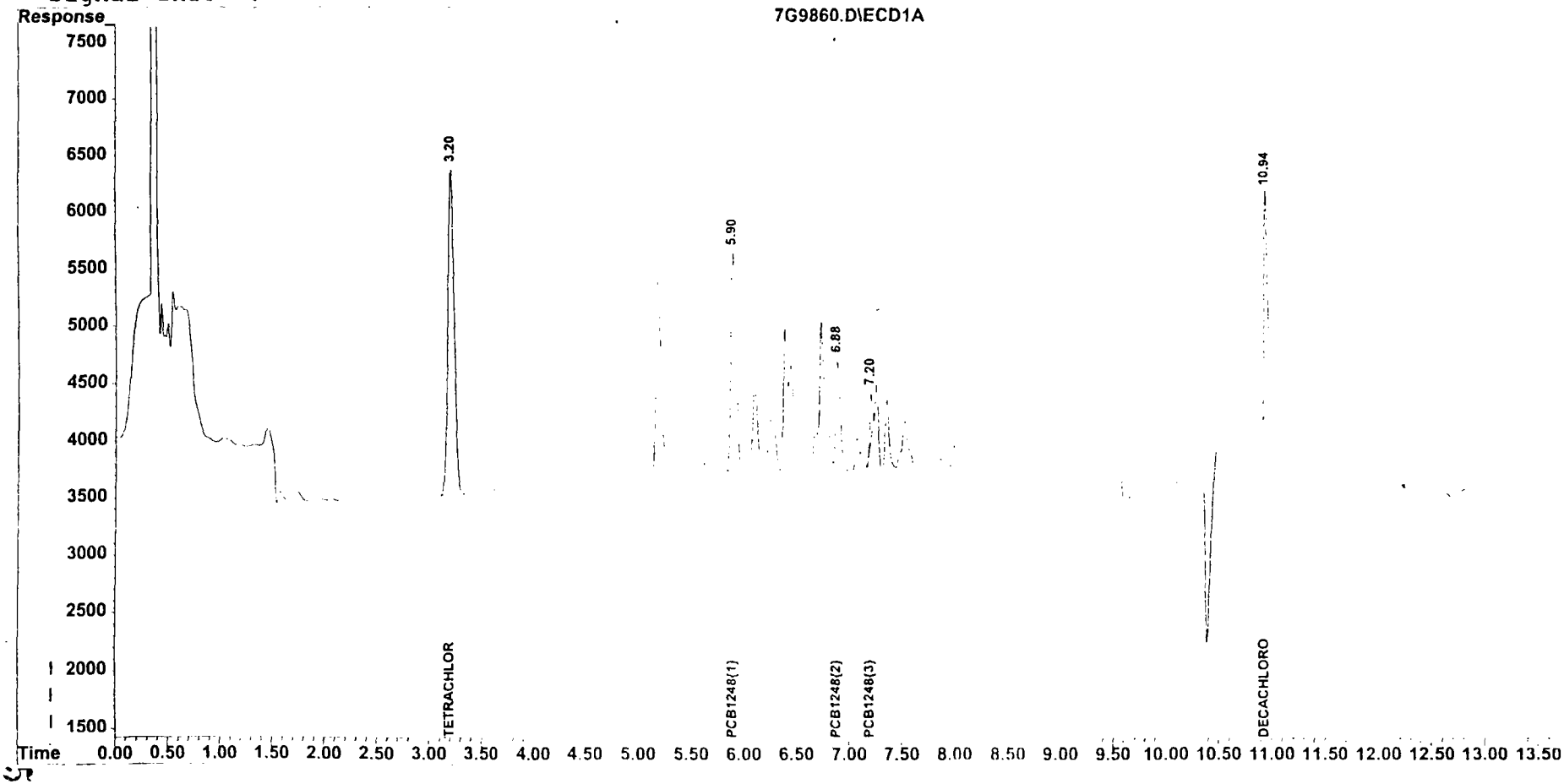
(f)=RT Delta > 1/2 Window (m)=manual int.

a File : C:\HPCHEM\1\DATA\112800\7G9860.D
On : 28 Nov 2000 10:13
Sample : L0011315-10
Misc : WATER
IntFile : AUTOINT1.E
Quant Time: Nov 28 10:48 2000 Quant Results File: 1248SF.RES

Vial: 3
Operator: SMW
Inst : HP7
Multiplr: 0.01

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9822R.D Vial: 65
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : L0011315-11 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	180558	15.288 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	76.44%
12) S DECACHLOROBIPHENYL	9.52	232840	10.202 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	51.01%
Target Compounds			
2) L1 PCB1016(1)	3.38	114829	1.691 UG/L
3) L1 PCB1016(2)	3.81	57224	1.468 UG/L
4) L1 PCB1016(3)	4.33	93081	0.931 UG/L
5) L1 PCB1016(4)	5.24	2105	1.737 UG/L
6) L1 PCB1016(5)	5.78	7170	0.165 UG/L
Sum PCB1016		274410	5.993 UG/L
Average PCB1016			1.199 UG/L
7) L2 PCB1260(1)	6.14	44180	1.357 UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		44180	1.357 UG/L
Average PCB1260			1.357 UG/L

1248

58

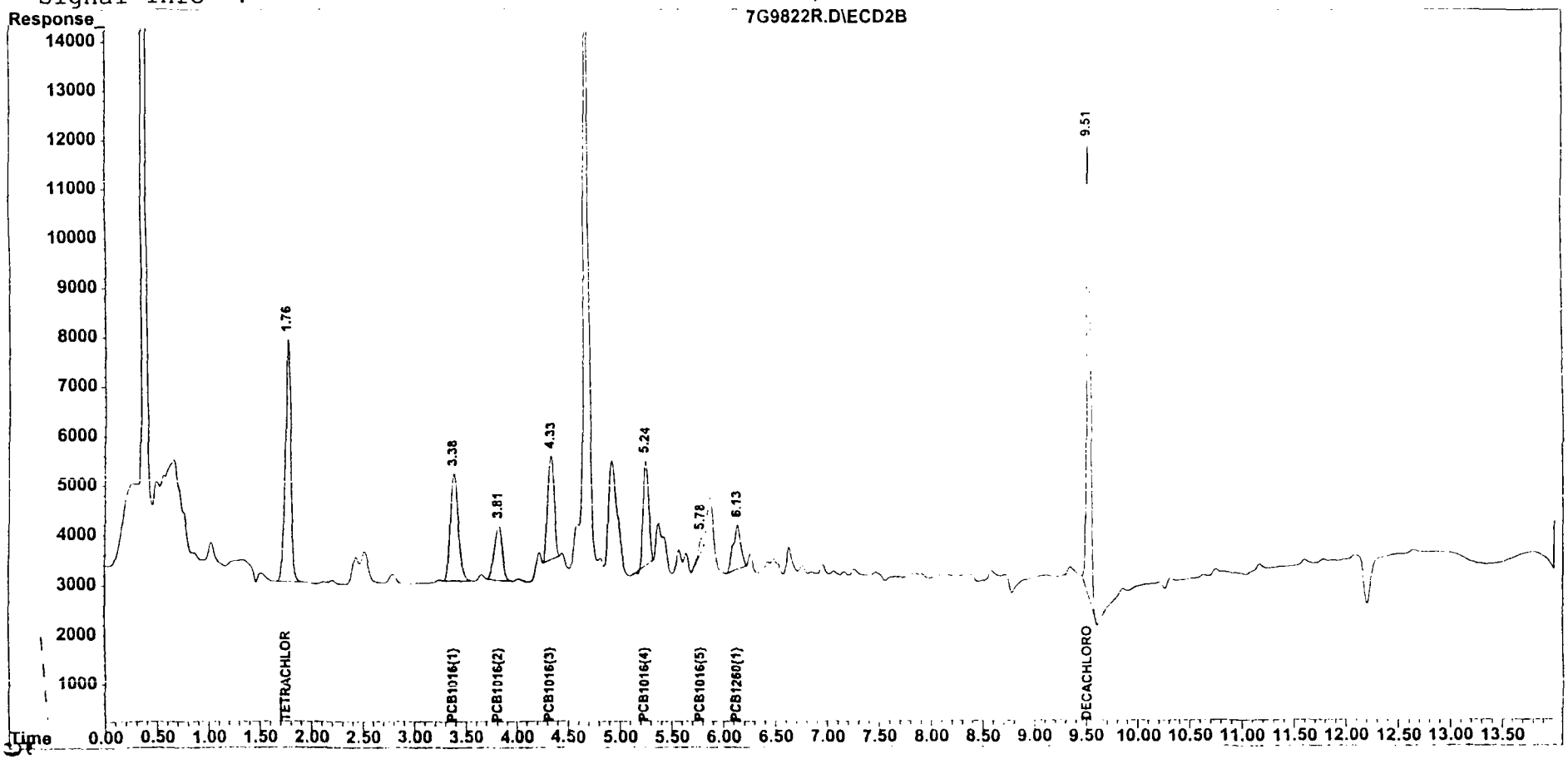
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEQ\7G9822R.D Vial: 65
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : L0011315-11 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9822R.D Vial: 65
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : L0011315-11 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 11:09 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

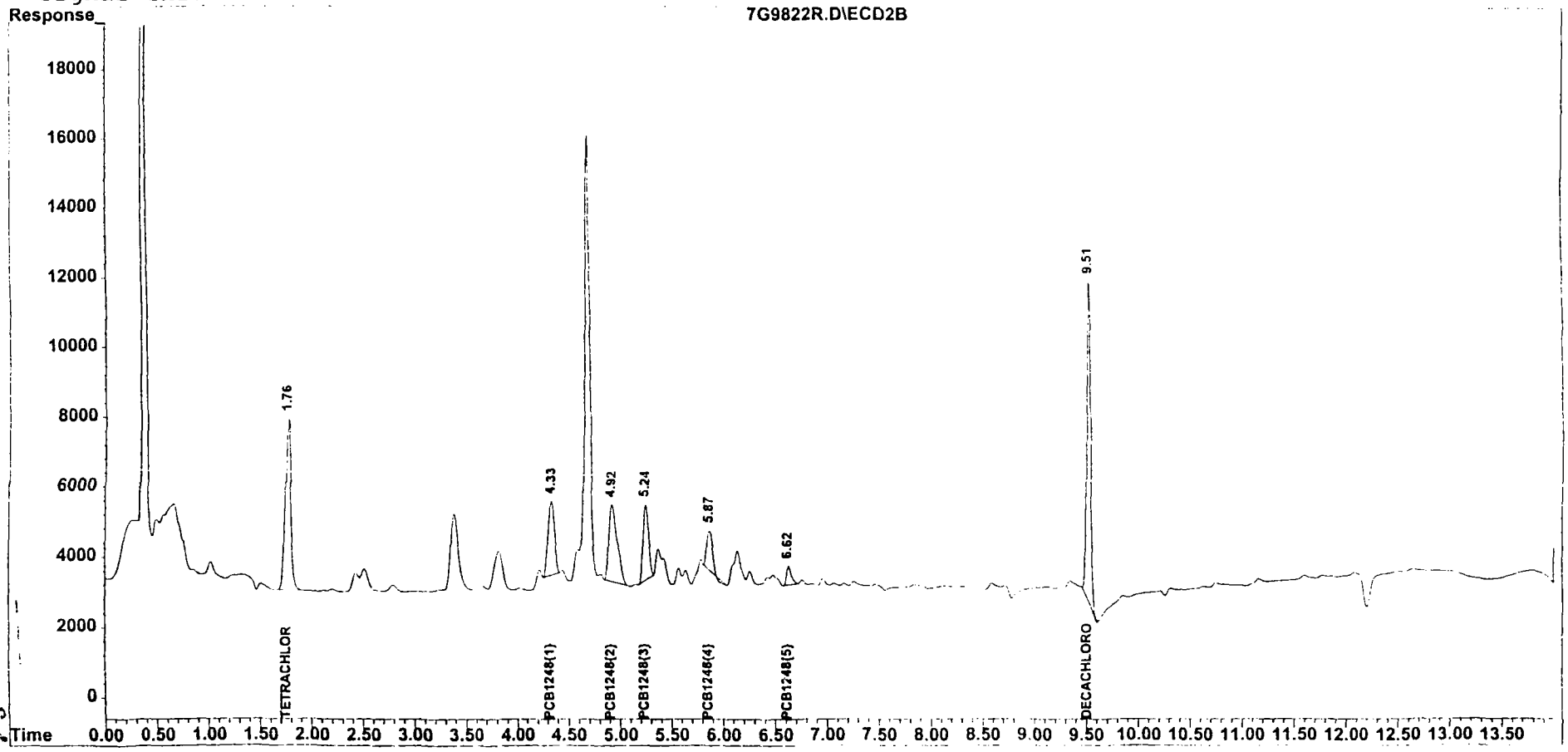
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	181761	17.284 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	86.42%
7) S DECACHLOROBIPHENYL	9.52	232840	11.209 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	56.05%
Target Compounds			
2) I1 PCB1248(1)	4.33	93081	1.632 UG/L
3) I1 PCB1248(2)	4.92	126096	1.353 UG/L
4) I1 PCB1248(3)	5.24	79578	1.620 UG/L
5) I1 PCB1248(4)	5.86	41636	0.527 UG/L
6) I1 PCB1248(5)	6.63	17560	0.792 UG/L
Sum PCB1248		357951	5.924 UG/L
Average PCB1248			1.185 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9822R.D Vial: 65
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : L0011315-11 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 11:09 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\112800\7G9861.D Vial: 4
Acq On : 28 Nov 2000 10:31 Operator: SMW
Sample : L0011315-11 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 28 10:48 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Initial Calibration
DataAcq Meth : SC82.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	172777	22.436 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 112.18%	
7) S DECACHLOROBIPHENYL	10.93	198242	23.708 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 118.54%	
Target Compounds			
2) L1 PCB1248{1}	5.89	114744	2.204 UG/L
3) L1 PCB1248{2}	6.88	48473	1.757 UG/L
4) L1 PCB1248{3}	7.25	19834	1.122 UG/L
5) L1 PCB1248{4}	7.51	41667	0.762 UG/L
6) L1 PCB1248{5}	0.00	0	N.D. UG/L
Sum PCB1248		224718	5.845 UG/L
Average PCB1248			1.461 UG/L

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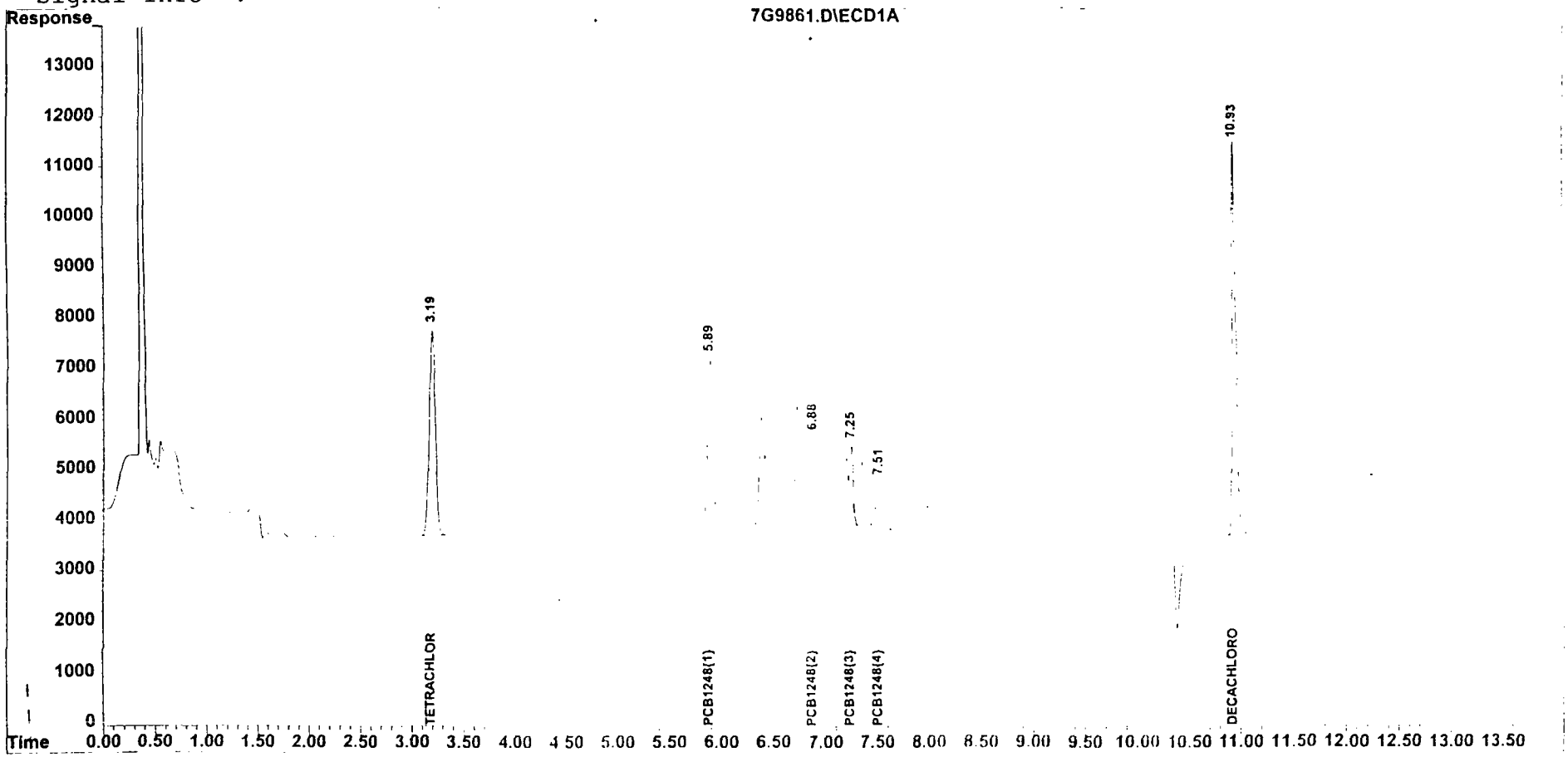
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9861.D 1248SF.M Tue Nov 28 10:48:58 2000 Page 1

Data File : C:\HPCHEM\1\DATA\112800\7G9861.D Vial: 4
Acq On : 28 Nov 2000 10:31 Operator: SMW
Sample : L0011315-11 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 28 10:48 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9823R.D Vial: 66
Acq On : 17 Nov 2000 18:00 Operator: SMW
Sample : L0011315-12 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	148599	12.582 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.91%
12) S DECACHLOROBIPHENYL	9.51	67372	2.952 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	14.76%#
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	0.00	0	N.D. UG/L
6) L1 PCB1016(5)	5.77	6288	0.145 UG/L
Sum PCB1016		6288	0.145 UG/L
Average PCB1016			0.145 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

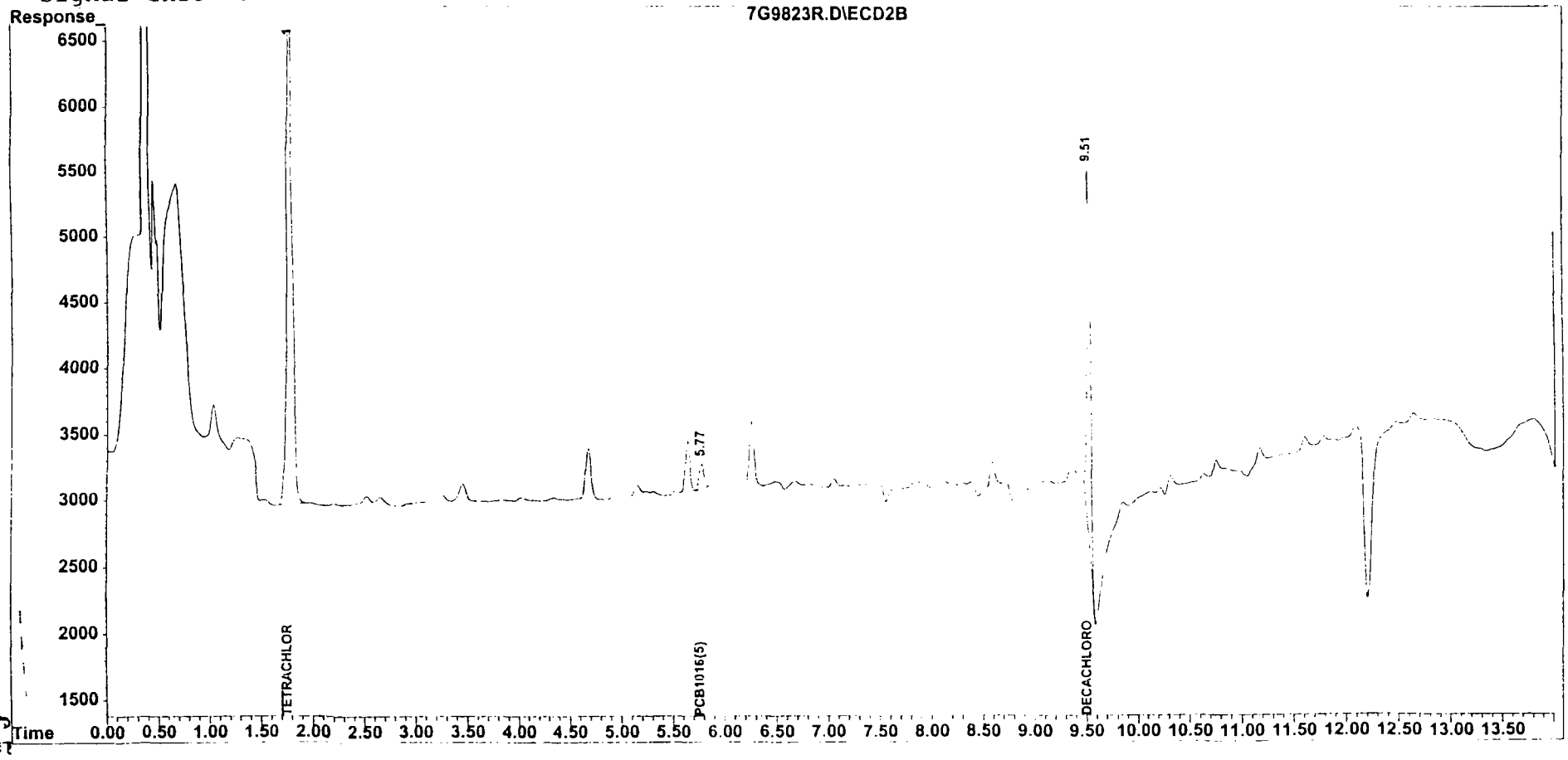
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEQ\7G9823R.D Vial: 60
Acq On : 17 Nov 2000 18:00 Operator: SMW
Sample : L0011315-12 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9824R.D Vial: 67
Acq On : 17 Nov 2000 18:19 Operator: SMW
Sample : L0011315-13 MS Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	179714	15.217 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	76.09%
12) S DECACHLOROBIPHENYL	9.52	237630	10.412 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	52.06%
Target Compounds			
2) L1 PCB1016(1)	3.38	171171	2.521 UG/L
3) L1 PCB1016(2)	3.81	87487	2.396 UG/L
4) L1 PCB1016(3)	4.33	231931	2.320 UG/L
5) L1 PCB1016(4)	5.24	5069	4.183 UG/L
6) L1 PCB1016(5)	0.00	0	N.D. UG/L
Sum PCB1016		495658	11.421 UG/L
Average PCB1016			2.855 UG/L
7) L2 PCB1260(1)	6.13	271053	3.323 UG/L
8) L2 PCB1260(2)	7.16	12917	0.084 UG/L
9) L2 PCB1260(3)	7.46	20403	0.173 UG/L
10) L2 PCB1260(4)	8.17	19299	0.110 UG/L
11) L2 PCB1260(5)	9.06	10472	0.150 UG/L
Sum PCB1260		334145	8.839 UG/L
Average PCB1260			1.768 UG/L

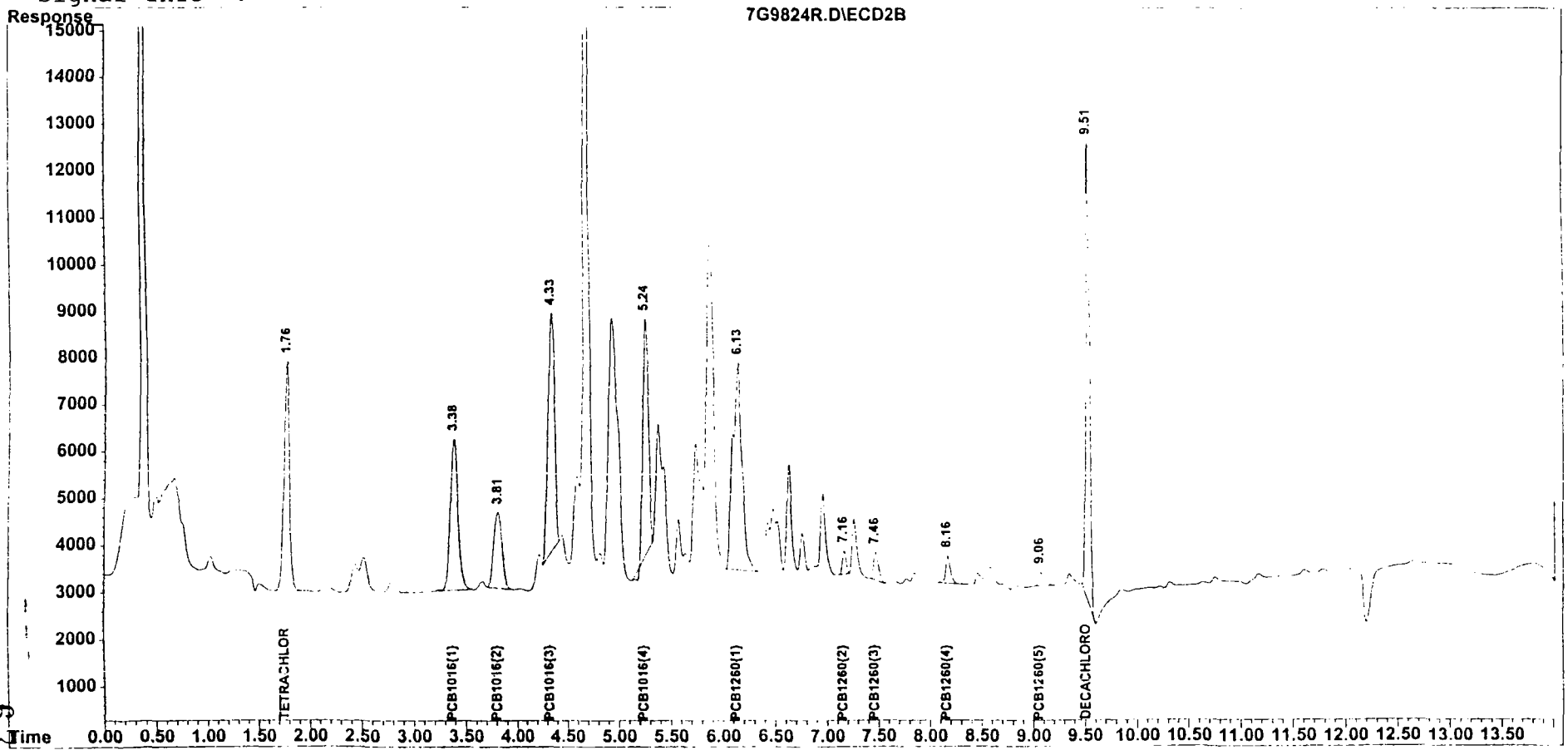
6-6

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9824R.D Vial: 67
Acq On : 17 Nov 2000 18:19 Operator: SMW
Sample : L0011315-13 MS Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9824R.D Vial: 67
Acq On : 17 Nov 2000 18:19 Operator: SMW
Sample : L0011315-13 MS Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 10:48 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	181698	17.278 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	86.39%
7) S DECACHLOROBIPHENYL	9.52	239762	11.543 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	57.72%
Target Compounds			
2) L1 PCB1248(1)	4.33	231931	4.067 UG/L
3) L1 PCB1248(2)	4.92	336646	3.612 UG/L
4) L1 PCB1248(3)	5.24	192528	3.919 UG/L
5) L1 PCB1248(4)	5.86	243662	3.085 UG/L
6) L1 PCB1248(5)	6.62	34818	1.571 UG/L
Sum PCB1248		1039585	16.253 UG/L
Average PCB1248			3.251 UG/L

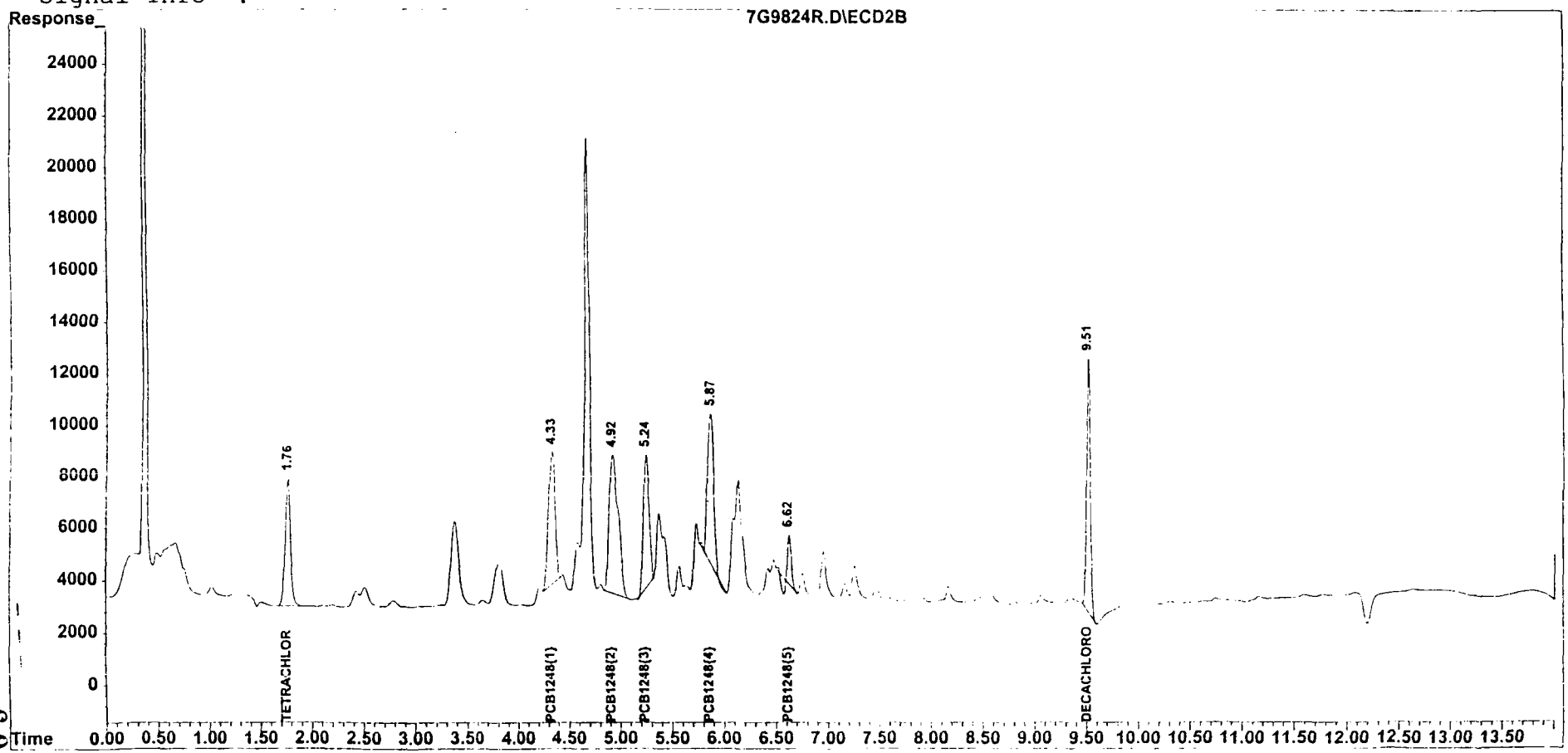
(f)=RT Delta > 1/2 Window (m)=manual int. 68

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9824R.D Vial: 67
Acq On : 17 Nov 2000 18:19 Operator: SMW
Sample : L0011315-13 MS Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 10:48 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9825R.D Vial: 68
Acq On : 17 Nov 2000 18:37 Operator: SMW
Sample : L0011315-14 MSD Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	157549	13.340 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	66.70%
12) S DECACHLOROBIPHENYL	9.51	91499	4.009 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	20.05%#
Target Compounds			
2) L1 PCB1016(1)	3.38	138944	2.047 UG/L
3) L1 PCB1016(2)	3.81	73000	1.950 UG/L
4) L1 PCB1016(3)	4.33	193369	1.934 UG/L
5) L1 PCB1016(4)	5.24	4241	3.499 UG/L
6) L1 PCB1016(5)	0.00	0	N.D. UG/L
Sum PCB1016		409554	9.431 UG/L
Average PCB1016			2.358 UG/L
7) L2 PCB1260(1)	6.14	226139	6.944 UG/L
8) L2 PCB1260(2)	7.16	11996	0.078 UG/L
9) L2 PCB1260(3)	7.47	18595	0.157 UG/L
10) L2 PCB1260(4)	8.17	25419	0.145 UG/L
11) L2 PCB1260(5)	9.06	8989	0.128 UG/L
Sum PCB1260		291137	7.453 UG/L
Average PCB1260			1.491 UG/L

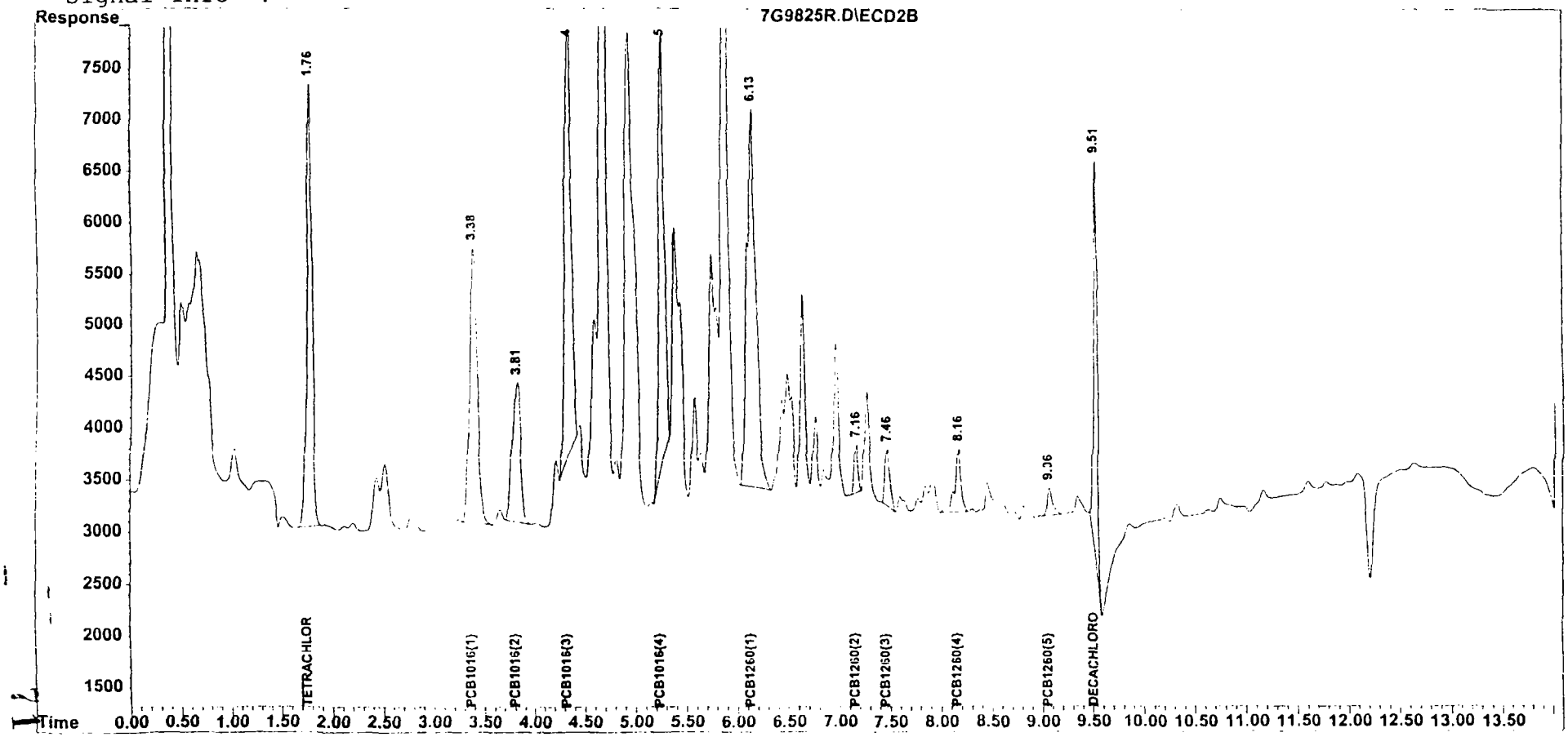
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9825R.D Vial: 68
Acq On : 17 Nov 2000 18:37 Operator: SMW
Sample : L0011315-14 MSD Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9825R.D Vial: 68
Acq On : 17 Nov 2000 18:37 Operator: SMW
Sample : L0011315-14 MSD Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 10:48 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	157790	15.005 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	75.03%
7) S DECACHLOROBIPHENYL	9.51	93969	4.524 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	22.62%#
Target Compounds			
2) T1 PCB1248(1)	4.33	193369	3.390 UG/L
3) T1 PCB1248(2)	4.92	279240	2.996 UG/L
4) T1 PCB1248(3)	5.24	158671	3.230 UG/L
5) T1 PCB1248(4)	5.87	197811	2.504 UG/L
6) T1 PCB1248(5)	6.62	31329	1.413 UG/L
Sum PCB1248		860419	13.533 UG/L
Average PCB1248			2.707 UG/L

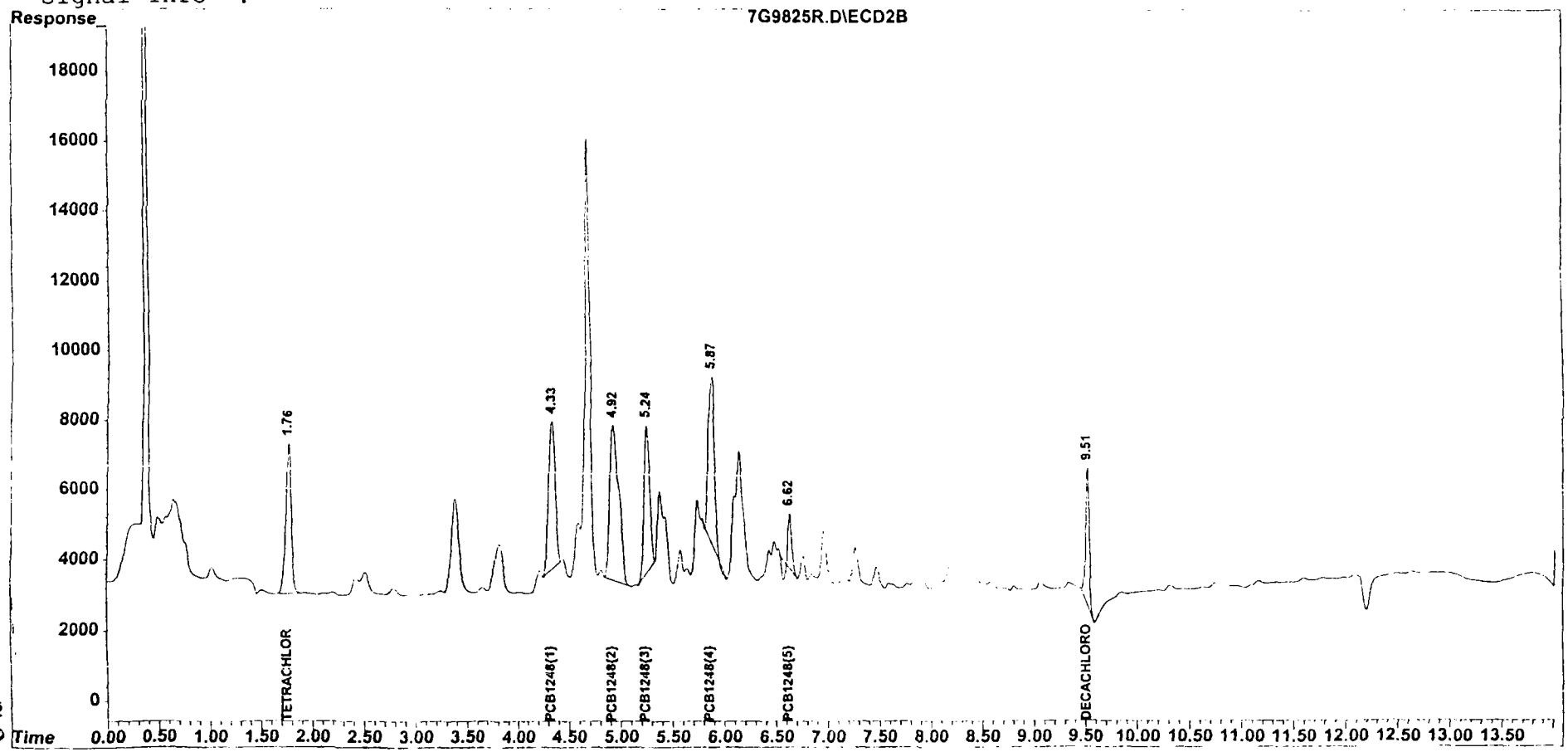
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9825R.D Vial: 68
Acq On : 17 Nov 2000 18:37 Operator: SMW
Sample : L0011315-14 MSD Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 10:48 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9826R.D Vial: 69
Acq On : 17 Nov 2000 18:56 Operator: SMW
Sample : L0011315-15 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	148261	12.554 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.77%
12) S DECACHLOROBIPHENYL	9.31	161554	7.079 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	35.40%
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	0.00	0	N.D. UG/L
6) L1 PCB1016(5)	5.77	6091	0.140 UG/L
Sum PCB1016		6091	0.140 UG/L
Average PCB1016			0.140 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

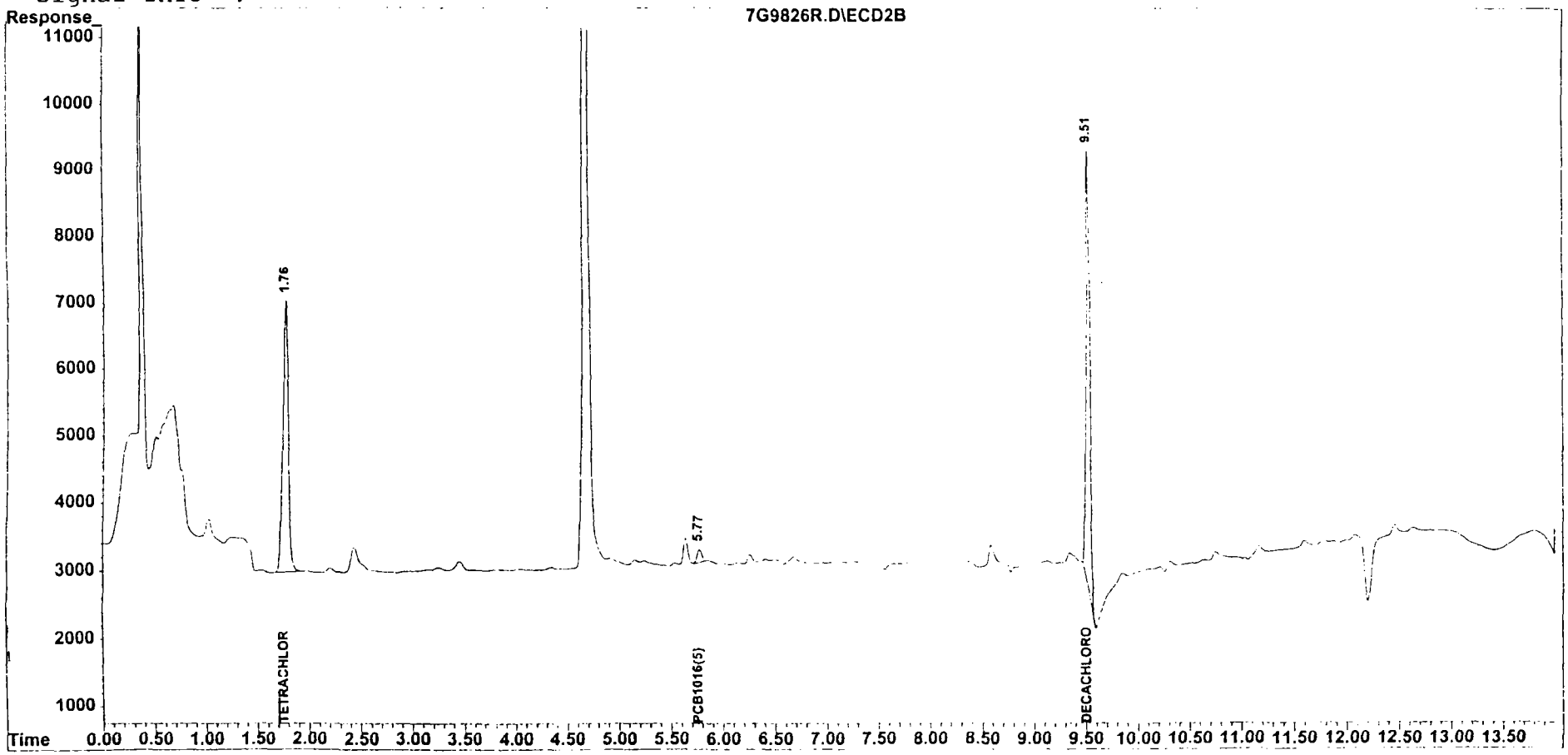
(f) =RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9826R.D Vial: 69
Acq On : 17 Nov 2000 18:56 Operator: SMW
Sample : L0011315-15 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9827R.D Vial: 70
Acq On : 17 Nov 2000 19:15 Operator: SMW
Sample : L0011315-16 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:47 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

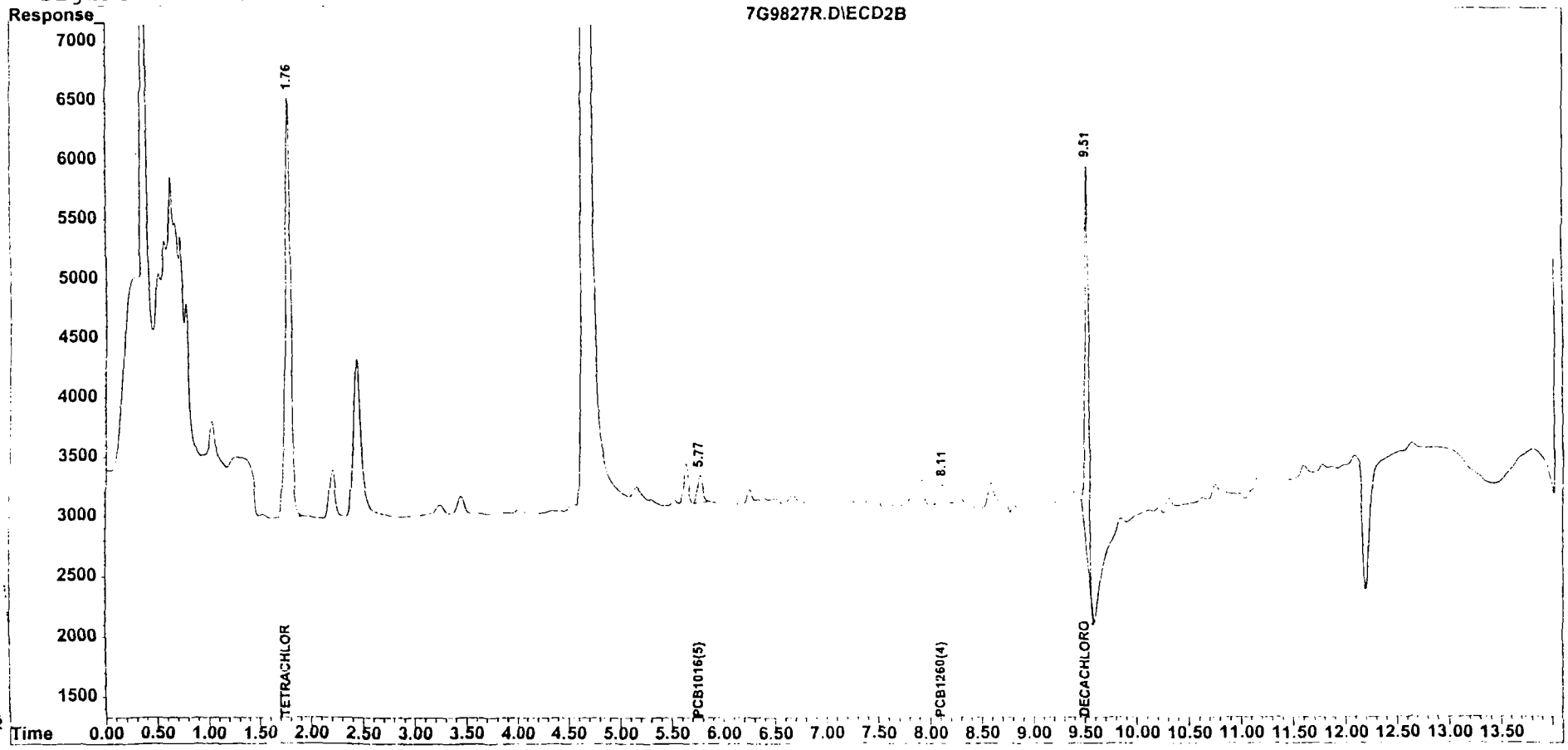
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	132414	11.212 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	56.06%
10) S DECACHLOROBIPHENYL	9.51	77238	3.384 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	16.92%#
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	5.77	8140	0.187 UG/L
Sum PCB1016		8140	0.187 UG/L
Average PCB1016			0.187 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	8.11f	6298	0.036 UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		6298	0.036 UG/L
Average PCB1260			0.036 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G9827R.D 8082R.M Mon Nov 20 10:47:03 2000

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9827R.D Vial: 70
Acq On : 17 Nov 2000 19:15 Operator: SMW
Sample : L0011315-16 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:47 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9828R.D Vial: 71
Acq On : 17 Nov 2000 19:34 Operator: SMW
Sample : L0011315-17 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:47 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.76	143230	12.128 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	60.64%
12) S DECACHLOROBIPHENYL	9.51	71350	3.126 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	15.63%#
Target Compounds			
2) L1 PCB1016(1)	0.00	0	N.D. UG/L
3) L1 PCB1016(2)	0.00	0	N.D. UG/L
4) L1 PCB1016(3)	0.00	0	N.D. UG/L
5) L1 PCB1016(4)	0.00	0	N.D. UG/L
6) L1 PCB1016(5)	5.77	9375	0.216 UG/L
Sum PCB1016		9375	0.216 UG/L
Average PCB1016			0.216 UG/L
7) L2 PCB1260(1)	0.00	0	N.D. UG/L
8) L2 PCB1260(2)	0.00	0	N.D. UG/L
9) L2 PCB1260(3)	0.00	0	N.D. UG/L
10) L2 PCB1260(4)	0.00	0	N.D. UG/L
11) L2 PCB1260(5)	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

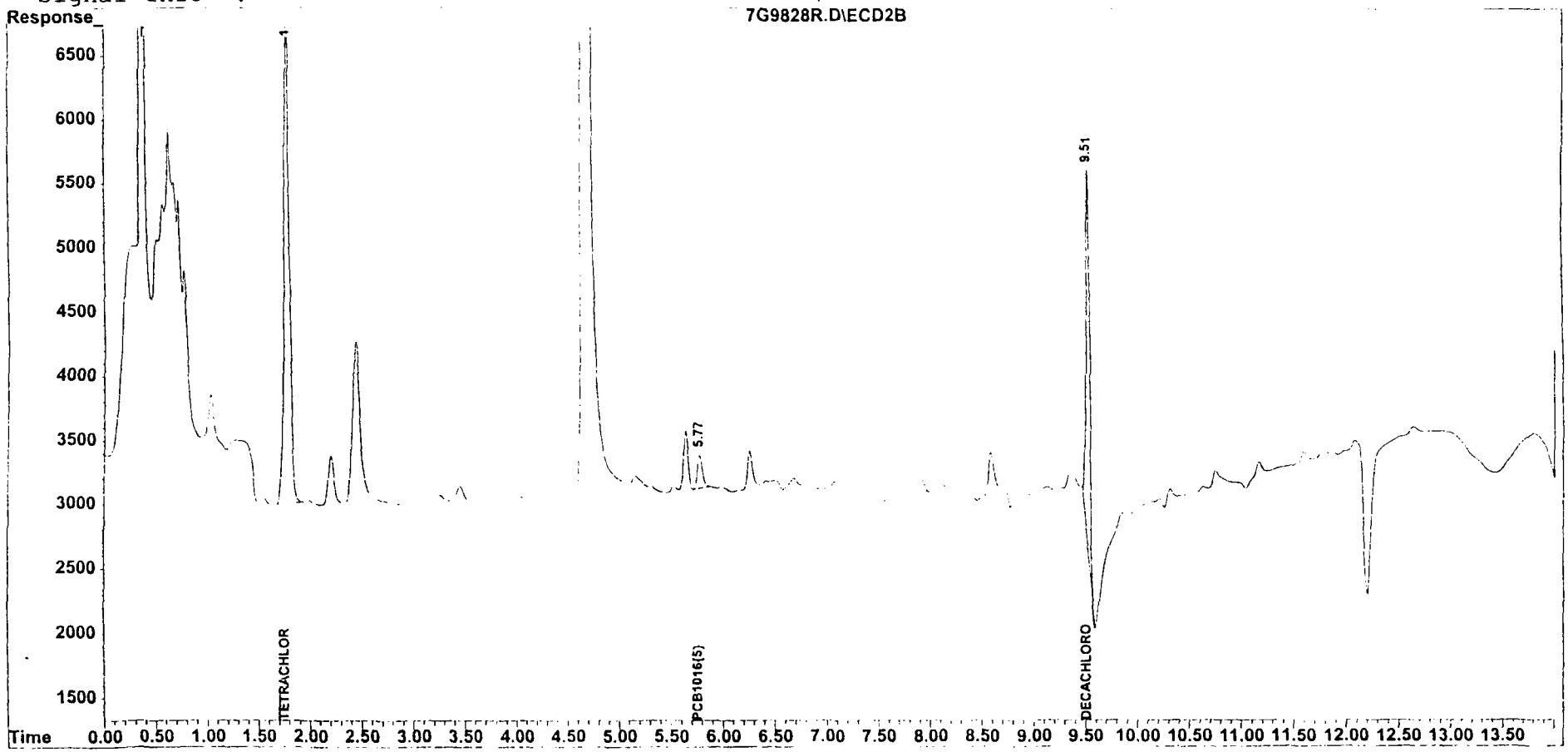
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700.CEC\7G9828R.D Vial: 71
Acq On : 17 Nov 2000 19:34 Operator: SMW
Sample : L0011315-17 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:47 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



2.2.3.3 Standards Data

Response Factor Report HP7

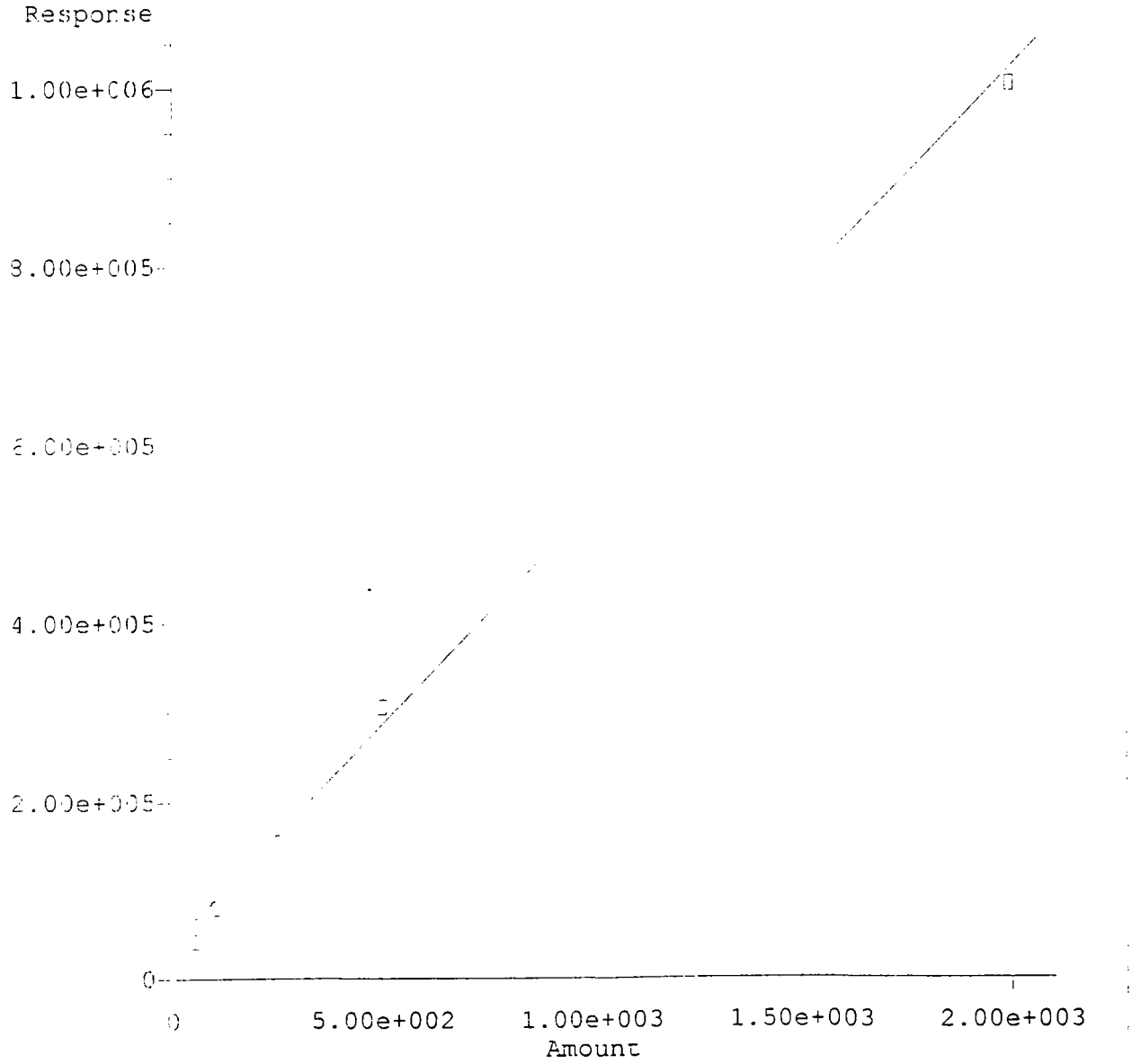
Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000

Calibration Files
50 =7G9726R.D 100 =7G9725R.D 250 =7G9724R.D
500 =7G9723R.D 1000 =7G9722R.D 2000 =7G9721R.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	1.276	1.202	1.155	1.184	1.158	1.112	1.181	E4	4.70
2)	L1	PCB1016(1)	8.629	7.690	6.912	6.506	5.824	5.172	6.789	E2	18.44
3)	L1	PCB1016(2)	4.640	4.157	3.654	3.495	3.161	2.911	3.669	E2	17.43
4)	L1	PCB1016(3)	1.167	1.192	1.073	0.929	0.850	0.787	1.000	E3	16.91
5)	L1	PCB1016(4)	1.458	1.315	1.223	1.198	1.086	0.991	1.212	E1	13.62
6)	L1	PCB1016(5)	4.702	5.259	4.568	4.257	3.834	3.451	4.345	E2	14.85
7)	L2	PCB1260(1)	4.105	3.861	3.687	4.001	3.546	3.129	3.722	E2	9.52
8)	L2	PCB1260(2)	1.846	1.829	1.606	1.495	1.320	1.169	1.544	E3	17.59
9)	L2	PCB1260(3)	1.529	1.315	1.174	1.120	1.026	0.928	1.182	E3	18.18
10)	L2	PCB1260(4)	2.249	1.969	1.809	1.654	1.481	1.324	1.748	E3	19.21
11)	L2	PCB1260(5)	9.182	7.755	6.961	6.623	6.020	5.447	6.998	E2	19.01
12)	S	DECACHLOROBIPHENYL	2.960	2.580	2.134	2.296	2.006	1.666	2.282	E4	19.73

(#) = Out of Range

PCB1254{4}



Response = 4.90e+002 * Amt + 4.10e+004
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: .C:\HPCHEM\1\METHODS\1254RCG.M
Calibration Table Last Updated: Wed Nov 15 08:09:49 2000

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9721R.D Vial: 52
Acq On : 14 Nov 2000 13:44 Operator: SMW
Sample : ICV 1660 2.0 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:00 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.76	1112030	94.158 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	470.79%#
12 S DECACHLOROBIPHENYL	9.51	1666162	73.140 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	365.70%#
Target Compounds			
2 L1 PCB1016{1}	3.38	1034424	1523.735 UG/L
3 L1 PCB1016{2}	3.81	582111	2002.390 UG/L
4 L1 PCB1016{3}	4.33	1573859	1578.633 UG/L
5 L1 PCB1016{4}	5.24	19817	1635.168 UG/L
6 L1 PCB1016{5}	5.78	690194	1595.064 UG/L
Sum PCB1016		3900404	8334.991 UG/L
Average PCB1016			1666.998 UG/L
7 L2 PCB1260{1}	6.13	625845	1921.682 UG/L
8 L2 PCB1260{2}	7.15	2338706	1513.844 UG/L
9 L2 PCB1260{3}	7.46	1855563	1569.778 UG/L
10 L2 PCB1260{4}	8.16	2647666	1513.826 UG/L
11 L2 PCB1260{5}	9.06	1089394	1556.720 UG/L
Sum PCB1260		8557173	8075.850 UG/L
Average PCB1260			1615.170 UG/L

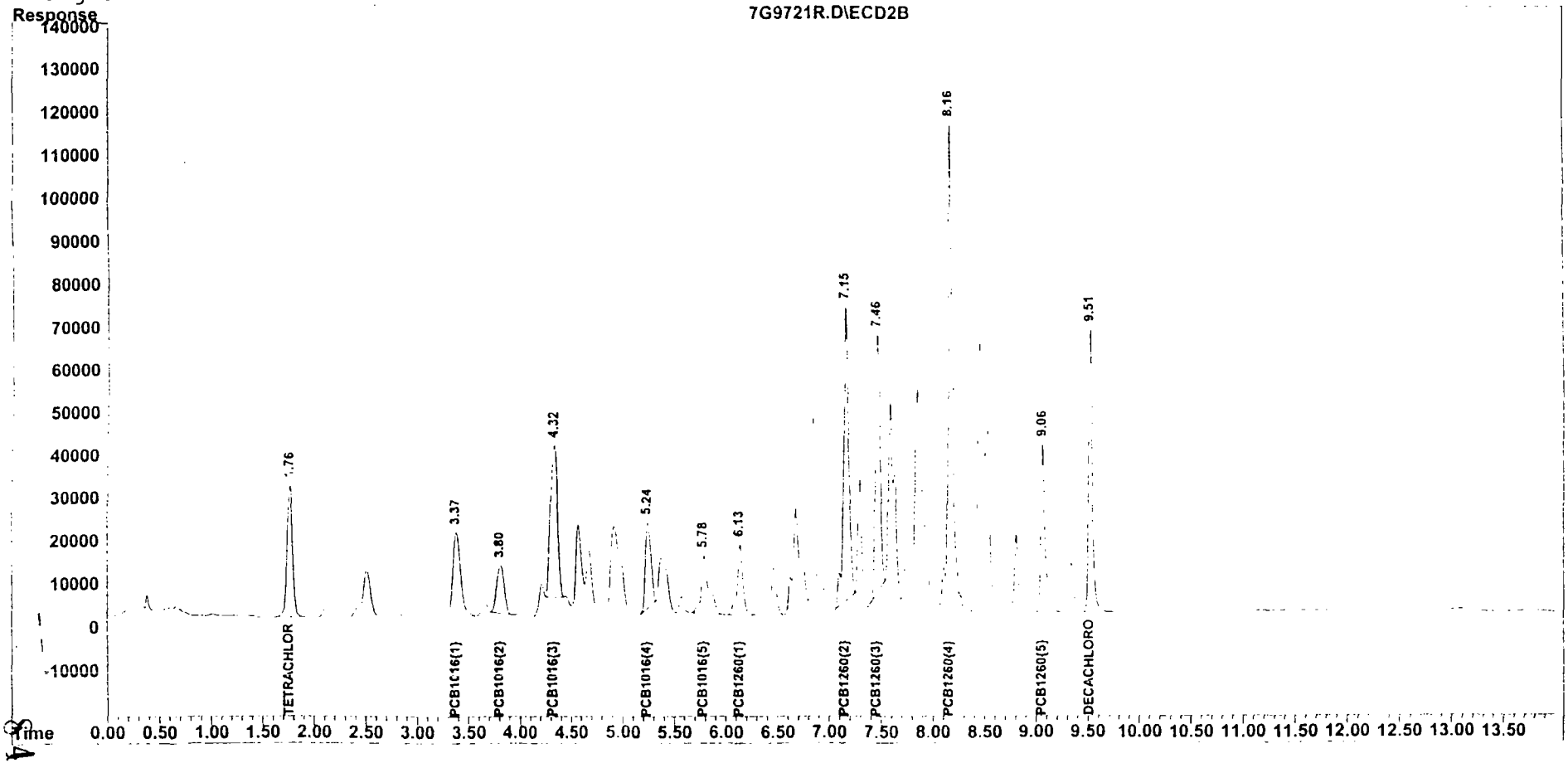
Quantitation Report

Data File : C:\HPCHEM\1\DATA\111100.[illegible]\7G9721R.D
Acq On : 14 Nov 2000 13:44
Sample : ICV 1660 2.0 PPM S50-73
Misc :
IntFile : EVENTS.E
Quant Time: Nov 15 7:00 2000 Quant Results File: 8082R.RES

Operator: SHW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9722R.D Vial: 53
Acq On : 14 Nov 2000 14:03 Operator: SMW
Sample : ICV 1660 1.0 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:06 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	578867	49.014 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	245.07%#
12) S DECACHLOROBIPHENYL	9.51	1003073	44.231 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	221.16%#
Target Compounds			
2) L1 PCB1016(1)	3.37	582353	857.822 UG/L
3) L1 PCB1016(2)	3.80	316059	987.964 UG/L
4) L1 PCB1016(3)	4.32	850235	850.534 UG/L
5) L1 PCB1016(4)	5.24	10864	896.470 UG/L
6) L1 PCB1016(5)	5.78	383445	882.431 UG/L
Sum PCB1016		2142956	4475.221 UG/L
Average PCB1016			895.044 UG/L
7) L2 PCB1260(1)	6.13	354582	1088.758 UG/L
8) L2 PCB1260(2)	7.15	1319955	854.882 UG/L
9) L2 PCB1260(3)	7.46	1026397	868.316 UG/L
10) L2 PCB1260(4)	8.16	1480985	847.445 UG/L
11) L2 PCB1260(5)	9.06	601992	860.234 UG/L
Sum PCB1260		4783911	4519.634 UG/L
Average PCB1260			903.927 UG/L

85

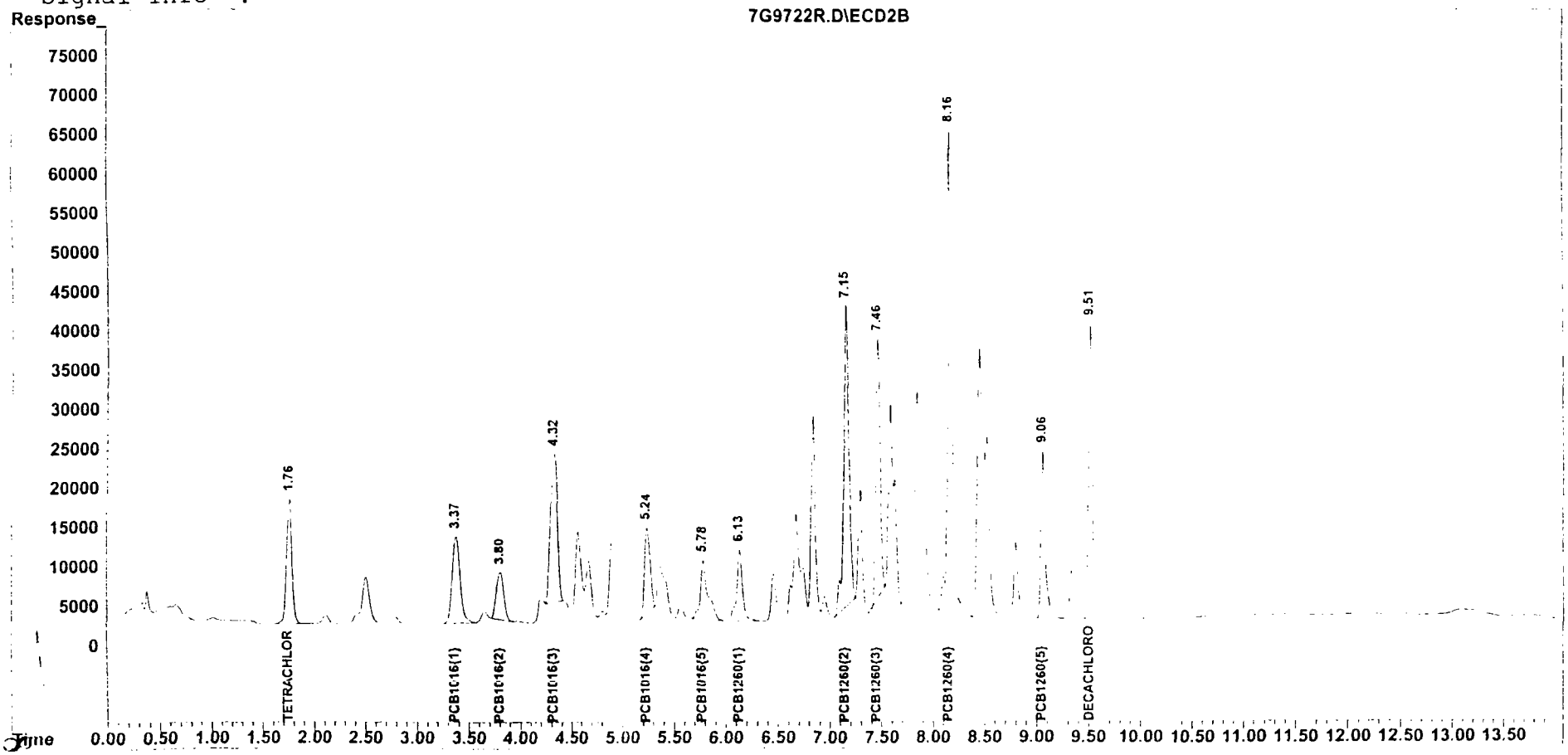
f)=RT Delta > 1/2 Window (m)=manual int

Quantitati Report

Data File : C:\HPCHEM\1\DATA\[illegible]R.D
Acq On : 14 Nov 2000 14:03 Operator : SMW
Sample : ICV 1660 1.0 PPM SSO [illegible] Inst : HP7
Misc : Multiplr : 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:06 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9723R.D Vial: 54
Acq On : 14 Nov 2000 14:22 Operator: SMW
Sample : ICV 1660 0.5 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:05 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	296064	25.068 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	125.34%
12) S DECACHLOROBIPHENYL	9.52	574066	25.513 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	127.57%
Target Compounds			
2) 11 PCB1016(1)	3.38	325319	479.204 UG/L
3) 11 PCB1016(2)	3.81	174758	514.907 UG/L
4) 11 PCB1016(3)	4.33	464357	464.520 UG/L
5) 11 PCB1016(4)	5.24	5990	494.285 UG/L
6) 11 PCB1016(5)	5.79	212867	489.877 UG/L
Sum PCB1016		1183291	2442.793 UG/L
Average PCB1016			488.559 UG/L
7) 12 PCB1260(1)	6.14	200040	614.231 UG/L
8) 12 PCB1260(2)	7.16	747318	484.008 UG/L
9) 12 PCB1260(3)	7.46	559892	473.660 UG/L
10) 12 PCB1260(4)	8.16	827001	473.224 UG/L
11) 12 PCB1260(5)	9.06	331151	473.208 UG/L
Sum PCB1260		2665401	2518.330 UG/L
Average PCB1260			503.666 UG/L

87

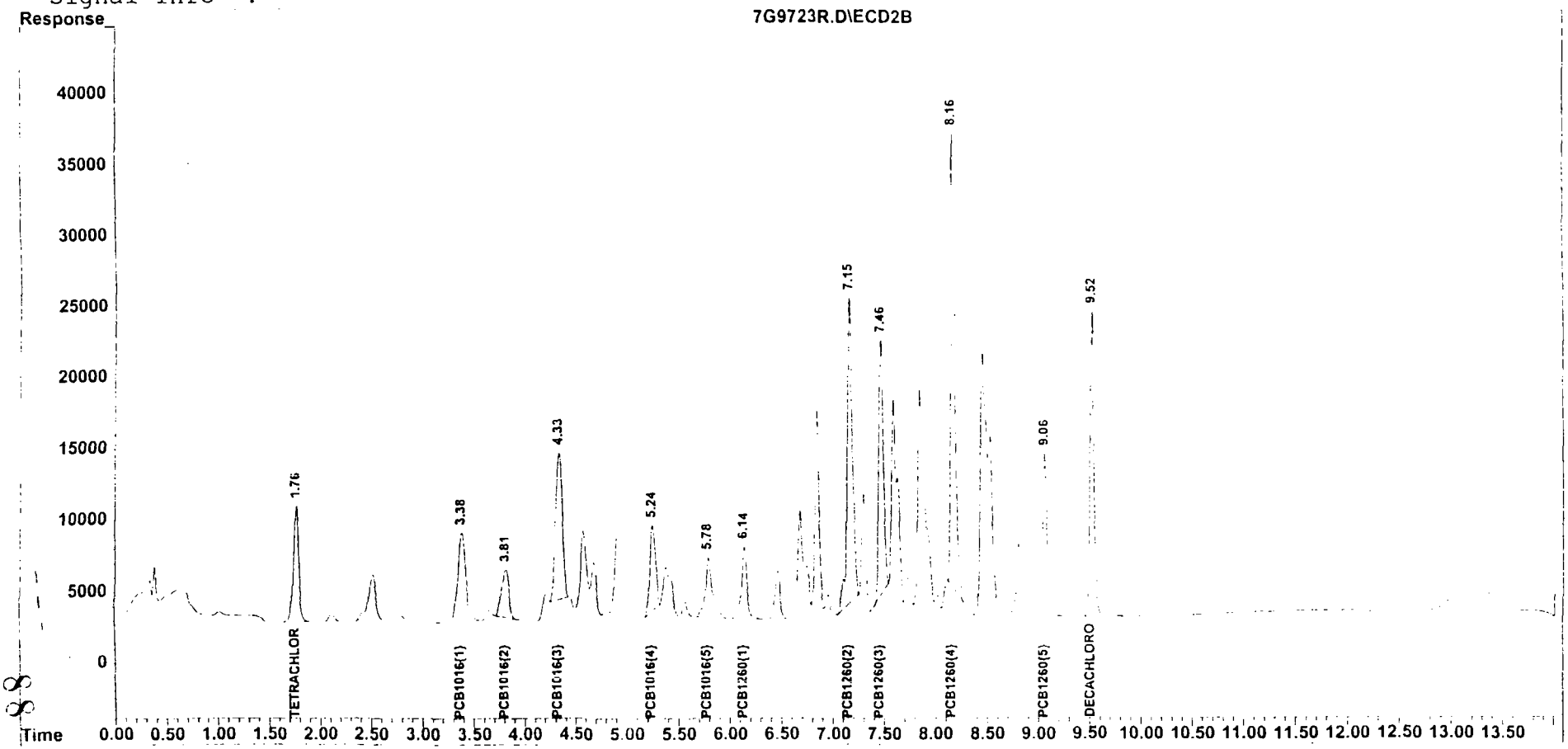
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\[illegible]8R.D Vial: [illegible]
Acq On : 14 Nov 2000 14:22 Operator: SMM
Sample : ICV 1660 0.5 PPM S50[illegible]3 Inst : HP7
Misc : Multipl: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:05 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9724R.D Vial: 55
Acq On : 14 Nov 2000 14:41 Operator: SMW
Sample : ICV 1660 0.25 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:04 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	144361	12.223 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	61.12%
10) S DECACHLOROBIPHENYL	9.52	273038	11.984 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	59.92%
Target Compounds			
2) L1 PCB1016(1)	3.38	172788	254.522 UG/L
3) L1 PCB1016(2)	3.81	91347	251.557 UG/L
4) L1 PCB1016(3)	4.33	268303	268.397 UG/L
5) L1 PCB1016(4)	5.25	3058	252.316 UG/L
6) L1 PCB1016(5)	5.79	114195	262.799 UG/L
Sum PCB1016		649691	1289.592 UG/L
Average PCB1016			257.918 UG/L
7) L2 PCB1260(1)	6.14	92173	283.022 UG/L
8) L2 PCB1260(2)	7.16	401406	259.975 UG/L
9) L2 PCB1260(3)	7.46	293566	248.352 UG/L
10) L2 PCB1260(4)	8.16	452142	258.607 UG/L
11) L2 PCB1260(5)	9.06	174037	248.696 UG/L
Sum PCB1260		1413324	1298.651 UG/L
Average PCB1260			259.730 UG/L

89

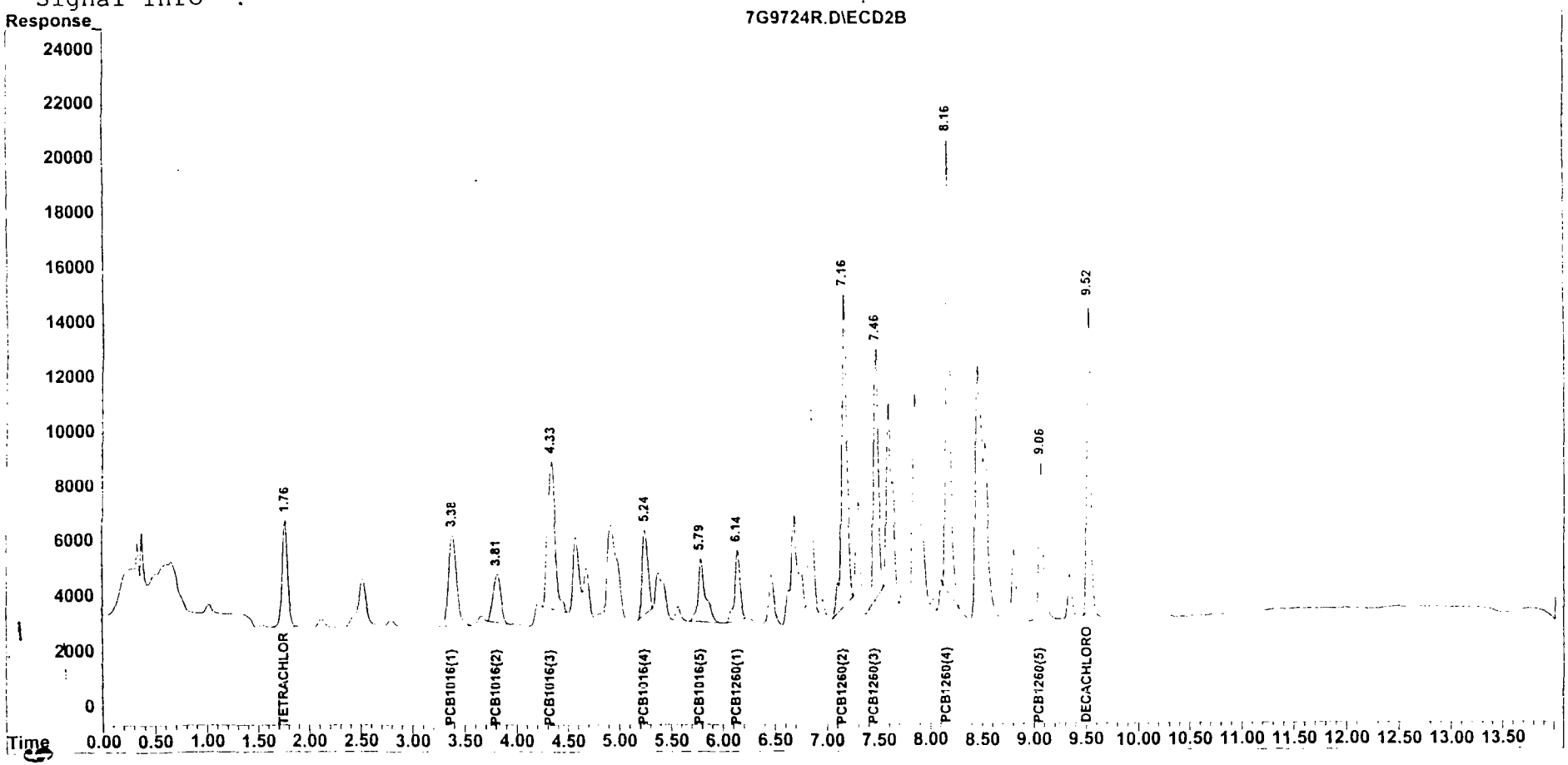
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitative Report

Data File : C:\HPCHEM\1\DATA\111100.SEQ 7G9724R.D Vial: 55
Acq On : 14 Nov 2000 14:41 Operator: SMM
Sample : ICV 1660 0.25 PPM 850 23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:04 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9725R.D Vial: 56
Acq On : 14 Nov 2000 14:59 Operator: SMW
Sample : ICV 1660 0.1 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:03 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.76	60076	5.087 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	25.44%
12 S DECACHLOROBIPHENYL	9.52	129024	5.661 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	28.31%
Target Compounds			
2 L1 PCB1016(1)	3.38	76902	113.279 UG/L
3 L1 PCB1016(2)	3.81	41569	99.289 UG/L
4 L1 PCB1016(3)	4.33	119203	119.245 UG/L
5 L1 PCB1016(4)	5.25	1315	108.469 UG/L
6 L1 PCB1016(5)	5.79	52592	121.030 UG/L
Sum PCB1016		291581	561.313 UG/L
Average PCB1016			112.263 UG/L
7 L2 PCB1260(1)	6.14	38610	118.553 UG/L
8 L2 PCB1260(2)	7.16	182901	118.458 UG/L
9 L2 PCB1260(3)	7.46	131513	111.258 UG/L
10 L2 PCB1260(4)	8.16	196898	112.687 UG/L
11 L2 PCB1260(5)	9.06	77546	110.812 UG/L
Sum PCB1260		627468	571.767 UG/L
Average PCB1260			114.353 UG/L

91

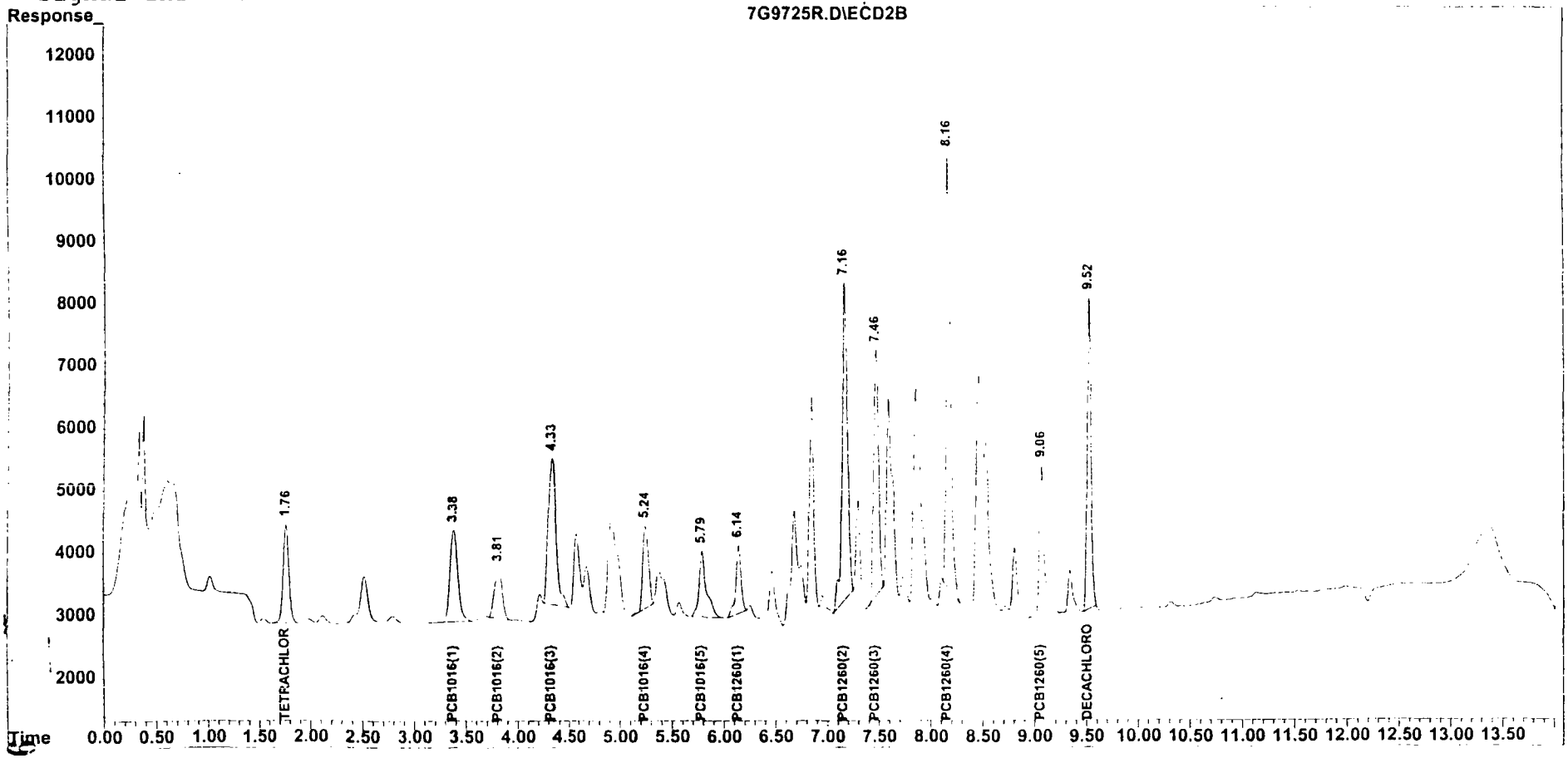
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9725R.D Vial: 56
Acq On : 14 Nov 2000 14:59 Operator: SMW
Sample : ICV 1000 0.1 PPM 550-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:03 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9726R.D Vial: 57
Acq On : 14 Nov 2000 15:18 Operator: SMW
Sample : ICV 1660 0.05 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:03 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.76	31893	2.700 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	13.50%
12 S DECACHLOROBIPHENYL	9.52	74003	3.234 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	16.17%#
Target Compounds			
2) L1 PCB1016(1)	3.38	43143	63.551 UG/L
3) L1 PCB1016(2)	3.81	23198	43.954 UG/L
4) L1 PCB1016(3)	4.33	58338	58.515 UG/L
5) L1 PCB1016(4)	5.25	729	60.171 UG/L
6) L1 PCB1016(5)	5.79	23511	54.325 UG/L
Sum PCB1016		148920	280.527 UG/L
Average PCB1016			56.105 UG/L
7 L2 PCB1260(1)	6.14	20527	63.030 UG/L
8 L2 PCB1260(2)	7.16	92277	59.731 UG/L
9 L2 PCB1260(3)	7.47	76449	64.675 UG/L
10 L2 PCB1260(4)	8.17	112458	64.299 UG/L
11 L2 PCB1260(5)	9.06	45910	65.604 UG/L
Sum PCB1260		347622	317.339 UG/L
Average PCB1260			63.468 UG/L

93

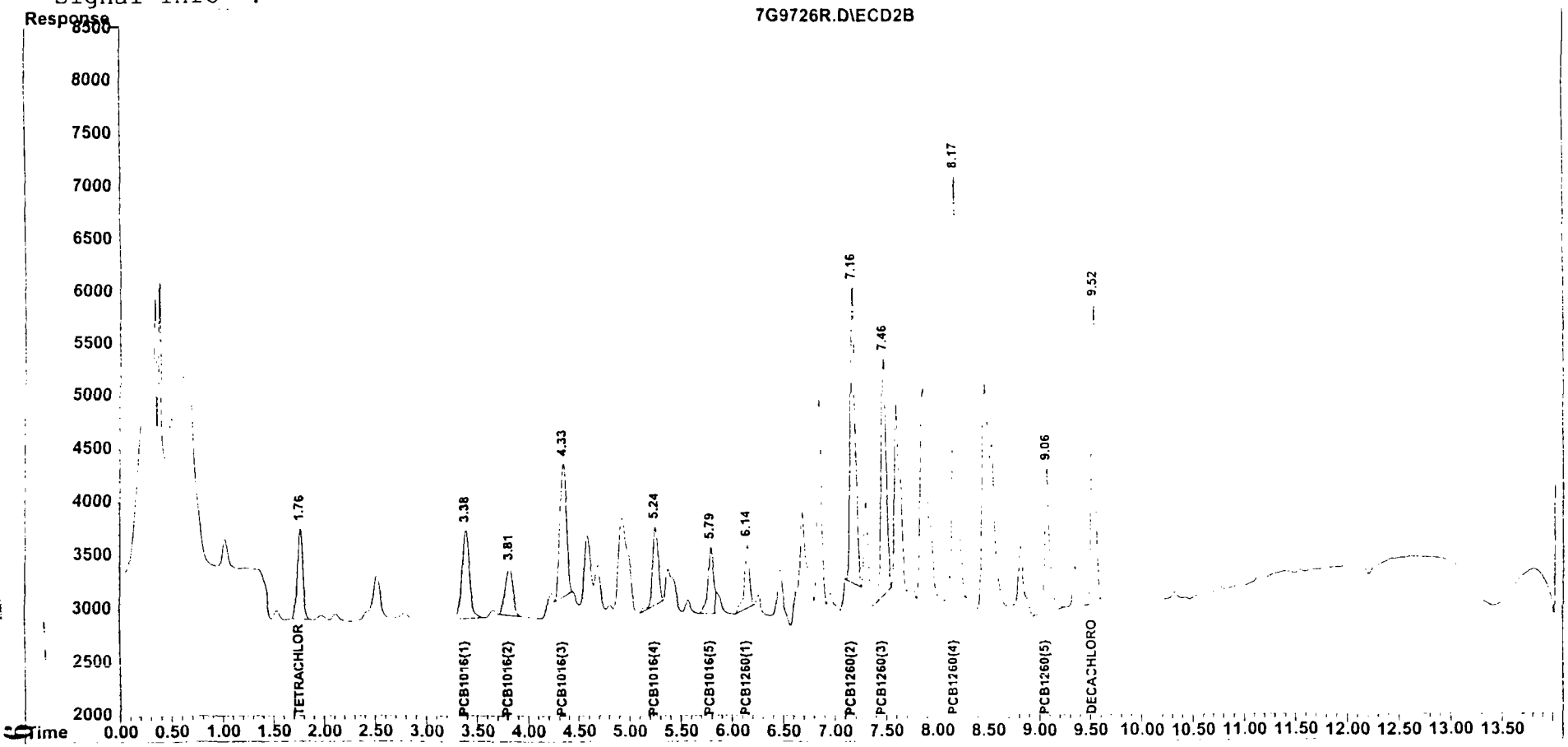
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\[illegible]R.D Vial: [illegible]
Acq On : 14 Nov 2000 15:18 Operator: SMW
Sample : ICV 1660 0.05 PPM SSO-23 Inst : HP7
Misc : Multiple: 1.00
Intrfile : EVENTS.E
Quant Time: Nov 15 7:03 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 10/30/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9727R.D Vial: 58
Acq On : 14 Nov 2000 15:37 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	1.528	93.9#	6	-0.03
2	I1	PCB1016(1)	500.000	458.024	8.4	96	0.00
3	I1	PCB1016(2)	500.000	486.767	2.6	95	0.00
4	I1	PCB1016(3)	500.000	486.307	2.7	105	0.00
5	I1	PCB1016(4)	500.000	456.687	8.7	92	0.00
6	I1	PCB1016(5)	500.000	519.162	-3.8	106	0.00
7	I2	PCB1260(1)	500.000	555.192	-11.0	90	0.00
8	I2	PCB1260(2)	500.000	476.659	4.7	98	0.00
9	I2	PCB1260(3)	500.000	499.853	0.0	106	0.00
10	I2	PCB1260(4)	500.000	438.281	12.3	93	0.00
11	I2	PCB1260(5)	500.000	392.726	21.5#	83	0.00
12	S	DECACHLOROBIPHENYL	25.000	0.520	97.9#	2	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9727R.D Vial: 58
Acq On : 14 Nov 2000 15:37 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:08 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

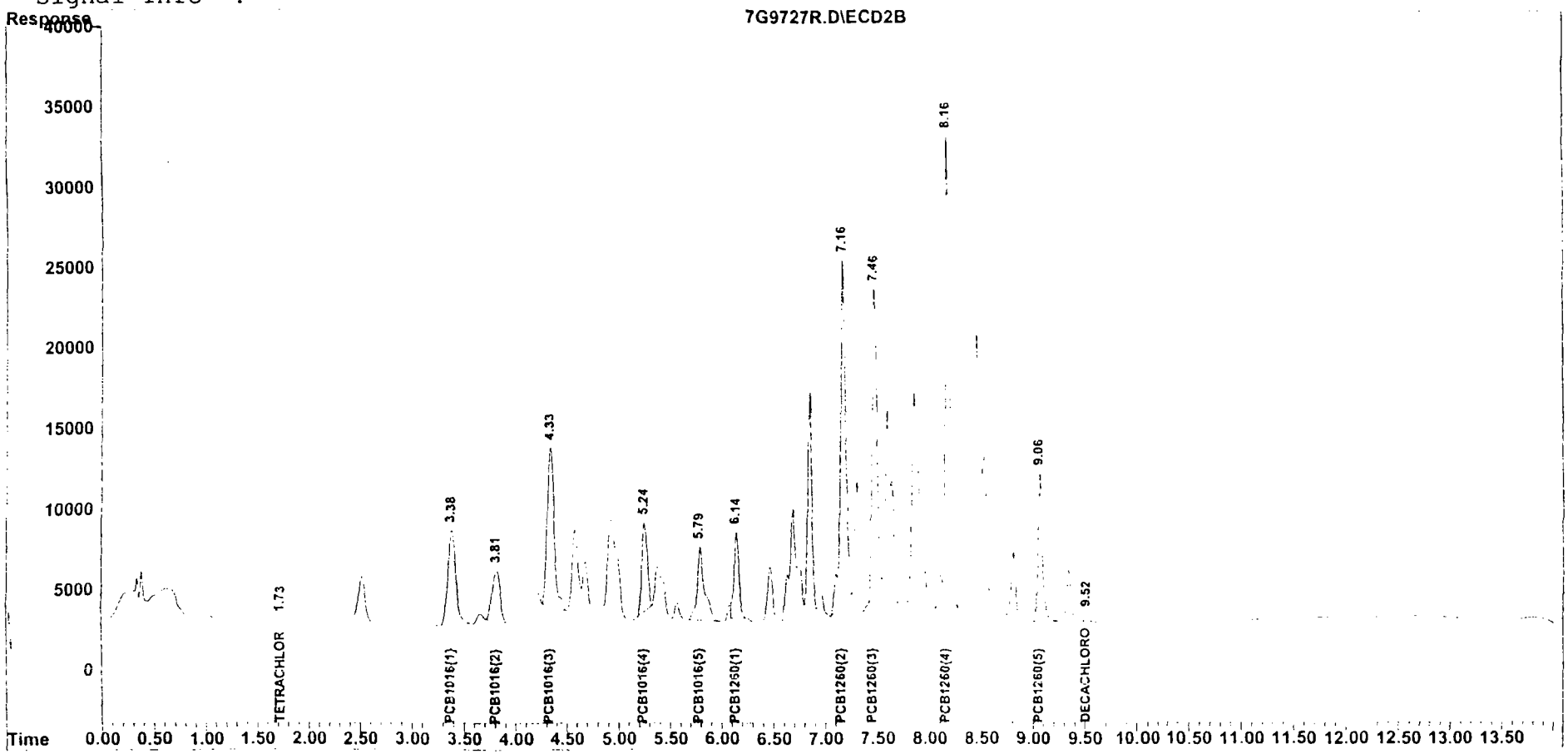
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.73f	18047	1.528 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	7.64%#
11 I DECACHLOROBIPHENYL	9.52	11376	0.520 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	2.60%#
Target Compounds			
2) L1 PCB1016-1}	3.38	310940	458.024 UG/L
3) L1 PCB1016-2}	3.81	166007	486.767 UG/L
4) L1 PCB1016-3}	4.33	486136	486.307 UG/L
5) L1 PCB1016-4}	5.25	5535	456.687 UG/L
6) L1 PCB1016-5}	5.79	225593	519.162 UG/L
Sum PCB1016		1194211	2406.947 UG/L
Average PCB1016			481.389 UG/L
7 L2 PCB1260-1}	6.14	180813	555.192 UG/L
8 L2 PCB1260-2}	7.16	735971	476.659 UG/L
9 L2 PCB1260-3}	7.46	590854	499.853 UG/L
10 L2 PCB1260-4}	8.16	765935	438.281 UG/L
11 L2 PCB1260-5}	9.06	274830	392.726 UG/L
Sum PCB1260		2548403	2362.712 UG/L
Average PCB1260			472.542 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9727R.D Vial: 58
Acq On : 14 Nov 2000 15:37 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 7:08 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000

Calibration Files

50	=7G9733R.D	100	=7G9732R.D	250	=7G9731R.D
500	=7G9730R.D	1000	=7G9729R.D	2000	=7G9728R.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	1.132	1.128	1.034	1.035	1.085	1.094	1.085	E4	3.96
2)	L1	PCB1254{1}	5.843	5.637	4.921	4.523	4.171	3.780	4.813	E2	16.92
3)	L1	PCB1254{2}	1.502	1.868	1.570	1.414	1.295	1.149	1.466	E3	16.86
4)	L1	PCB1254{3}	1.101	1.037	0.914	0.854	0.814	0.757	0.913	E3	14.55
5)	L1	PCB1254{4}	8.467	7.913	6.786	6.099	5.566	5.014	6.641	E2	20.28
6)	L1	PCB1254{5}	1.192	1.108	0.974	0.908	0.826	0.761	0.961	E3	17.18
7)	S	DECACHLOROBIPHENYL	2.673	2.456	2.201	2.004	1.817	1.564	2.119	E4	19.34

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9728R.D Vial: 59
Acq On : 14 Nov 2000 15:56 Operator: SMW
Sample : ICV 1254 2.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:11 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	1093844	100.837 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	504.19%#
7) S DECACHLOROBIPHENYL	9.52	1564151	73.807 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	369.04%#
Target Compounds			
2) L1 PCB1254{1}	4.90	756087	1571.072 UG/L
3) L1 PCB1254{2}	6.14	2298893	1567.857 UG/L
4) L1 PCB1254{3}	6.62	1513593	1658.374 UG/L
5) L1 PCB1254{4}	7.16	1002756	1964.343 UG/L
6) L1 PCB1254{5}	7.46	1521139	1582.296 UG/L
Sum PCB1254		7092468	8343.942 UG/L
Average PCB1254			1668.788 UG/L

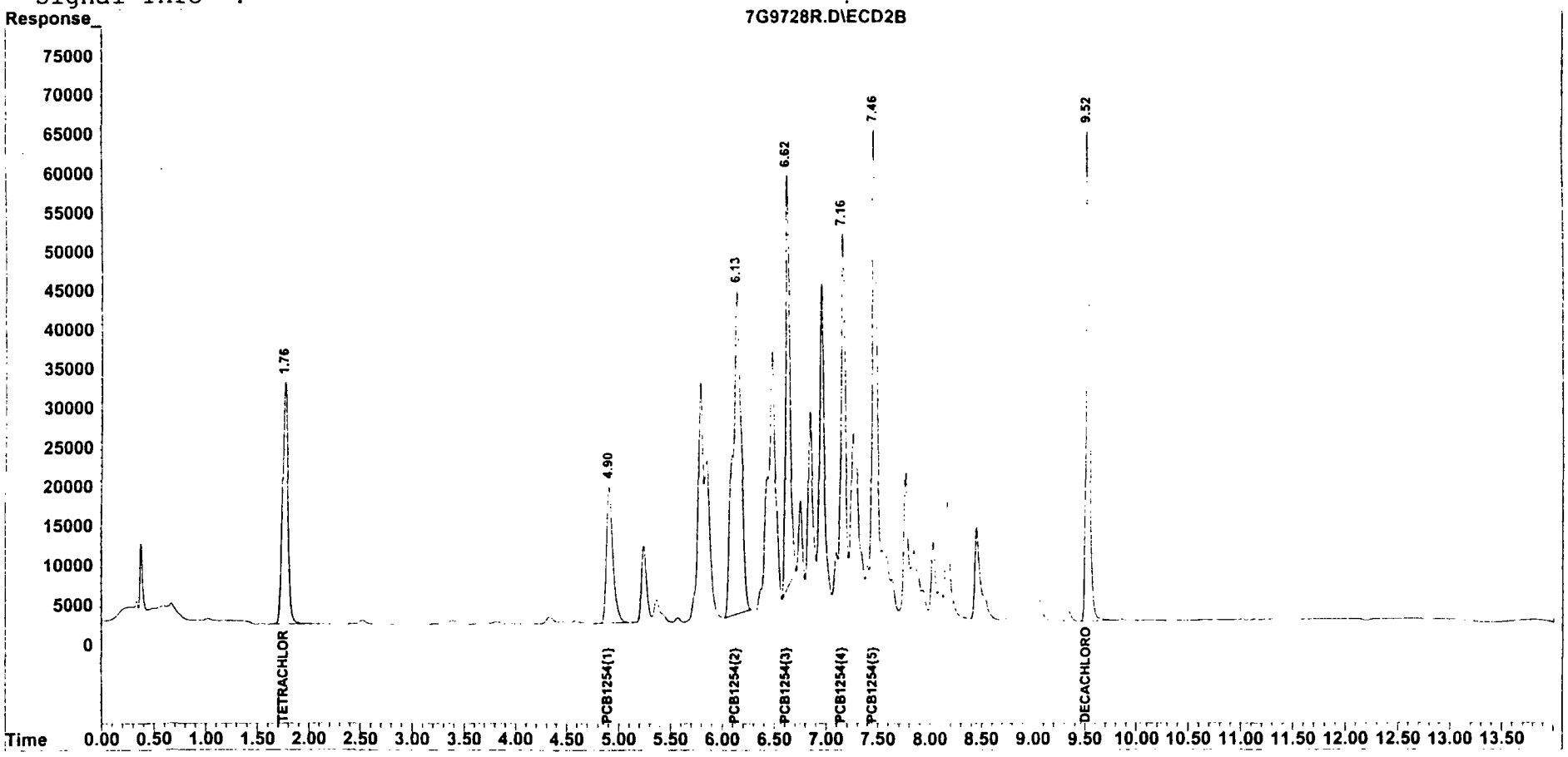
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9728R.D Vial: 59
Acq On : 14 Nov 2000 15:56 Operator: SMW
Sample : ICV 1254 2.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:11 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



160

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9729R.D Vial: 60
Acq On : 14 Nov 2000 16:15 Operator: SMW
Sample : ICV 1254 1.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:11 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	542584	50.018 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	250.09%#
7) S DECACHLOROBIPHENYL	9.52	908538	42.871 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	214.36%#
Target Compounds			
2) L1 PCB1254{1}	4.90	417084	866.658 UG/L
3) L1 PCB1254{2}	6.14	1295383	883.458 UG/L
4) L1 PCB1254{3}	6.62	813623	891.449 UG/L
5) L1 PCB1254{4}	7.16	556626	1053.150 UG/L
6) L1 PCB1254{5}	7.46	825547	858.738 UG/L
Sum PCB1254		3908263	4553.453 UG/L
Average PCB1254			910.691 UG/L

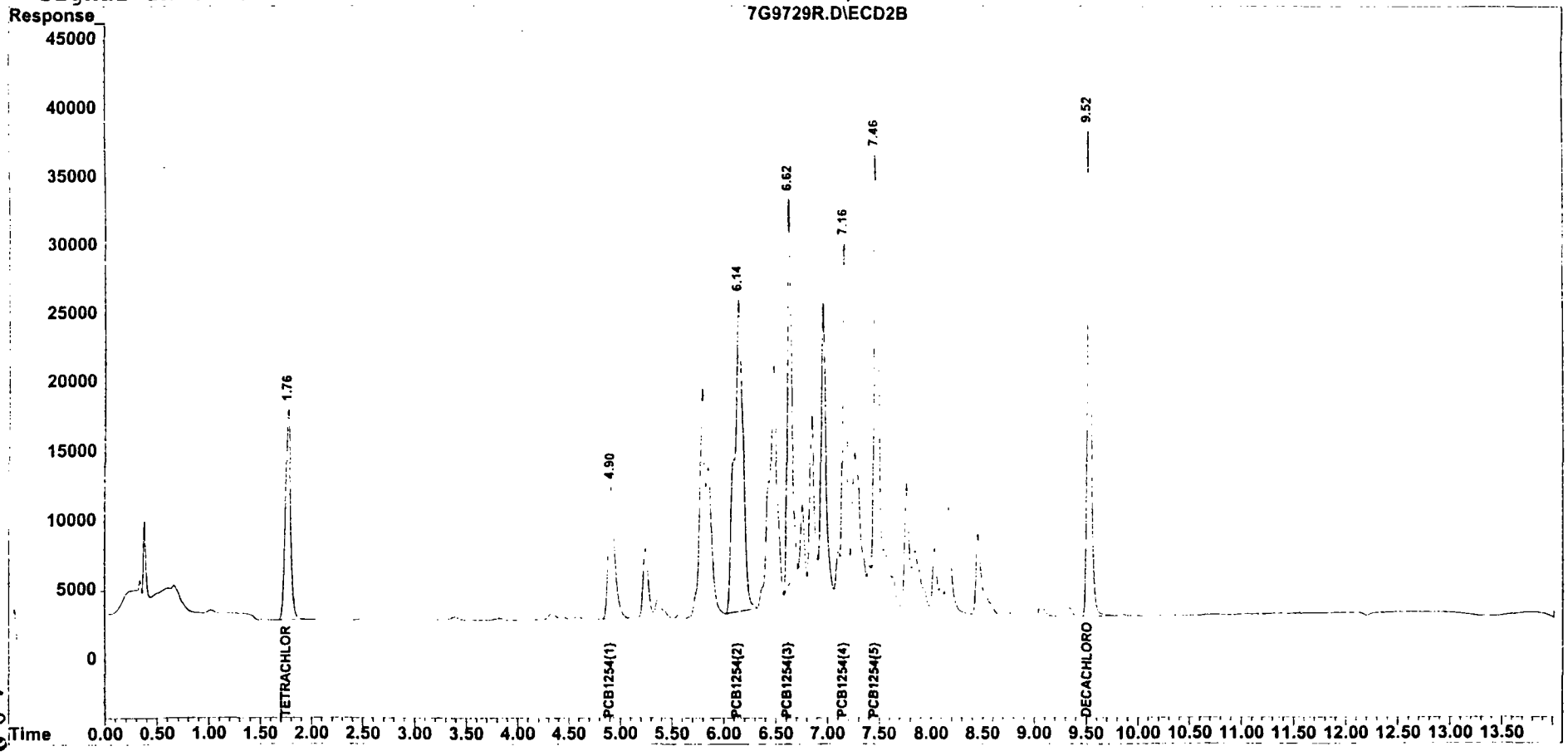
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9729R.D 1254RCG.M Wed Nov 15 08:11:57 2000

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9729R.D Vial: 60
Acq On : 14 Nov 2000 16:15 Operator: SMW
Sample : ICV 1254 1.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:11 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9730R.D Vial: 61
Acq On : 14 Nov 2000 16:34 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:12 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

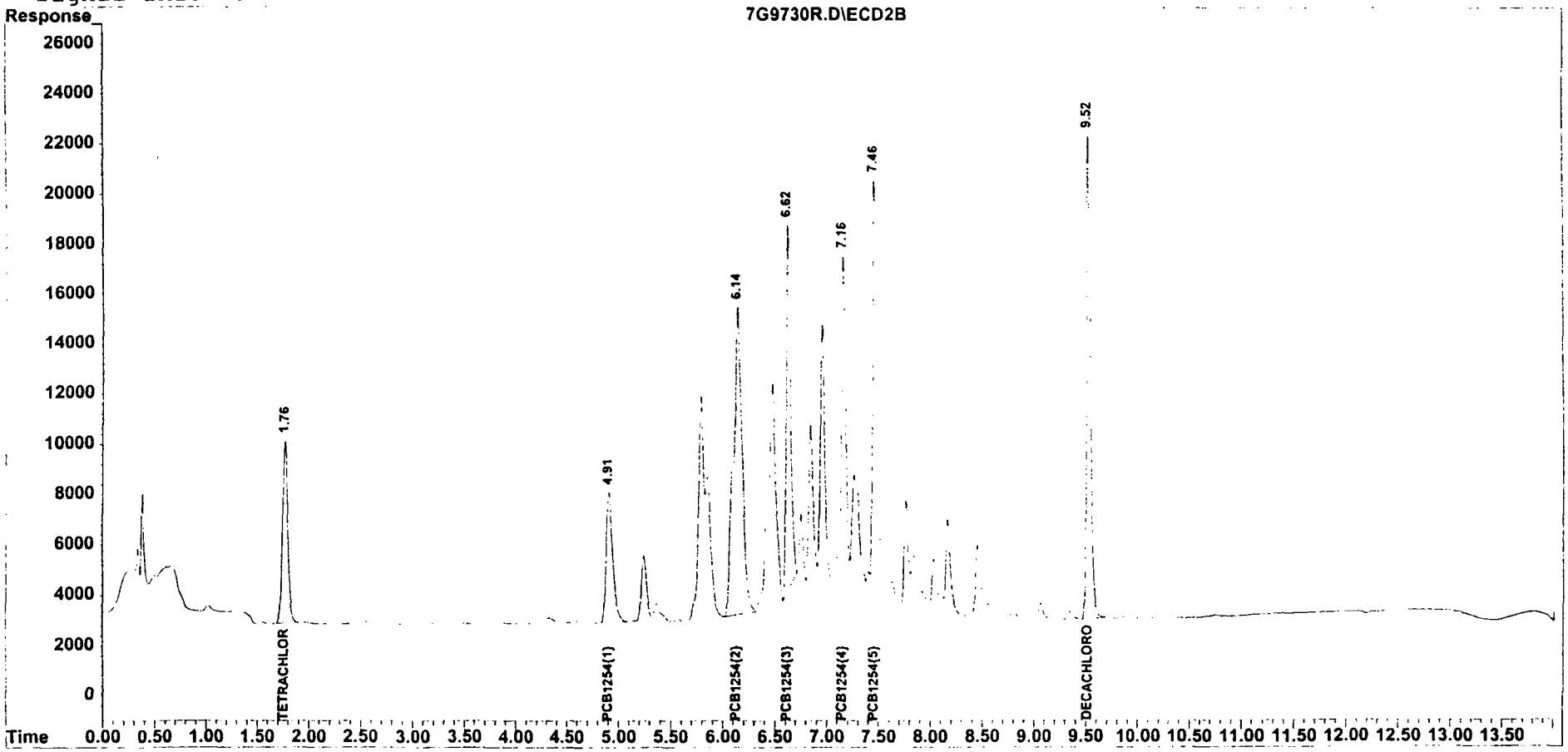
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	258870	23.864 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	119.32%
7) S DECACHLOROBIPHENYL	9.52	500969	23.639 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	118.20%
Target Compounds			
2) L1 PCB1254{1}	4.91	226151	469.918 UG/L
3) L1 PCB1254{2}	6.14	706766	482.018 UG/L
4) L1 PCB1254{3}	6.62	427158	468.017 UG/L
5) L1 PCB1254{4}	7.16	304932	539.082 UG/L
6) L1 PCB1254{5}	7.46	454100	472.357 UG/L
Sum PCB1254		2119107	2431.392 UG/L
Average PCB1254			486.278 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9730R.D Vial: 61
Acq On : 14 Nov 2000 16:34 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:12 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration
DataAcq Meth. : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9731R.D Vial: 62
Acq On : 14 Nov 2000 16:52 Operator: SMW
Sample : ICV 1254 0.25 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:12 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	129224	11.913 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	59.57%
7) S DECACHLOROBIPHENYL	9.52	275125	12.982 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	64.91%
Target Compounds			
2) L1 PCB1254{1}	4.91	123028	255.639 UG/L
3) L1 PCB1254{2}	6.14	392487	267.678 UG/L
4) L1 PCB1254{3}	6.62	228537	250.397 UG/L
5) L1 PCB1254{4}	7.16	169653	262.783 UG/L
6) L1 PCB1254{5}	7.46	243526	253.317 UG/L
Sum PCB1254		1157231	1289.815 UG/L
Average PCB1254			257.963 UG/L

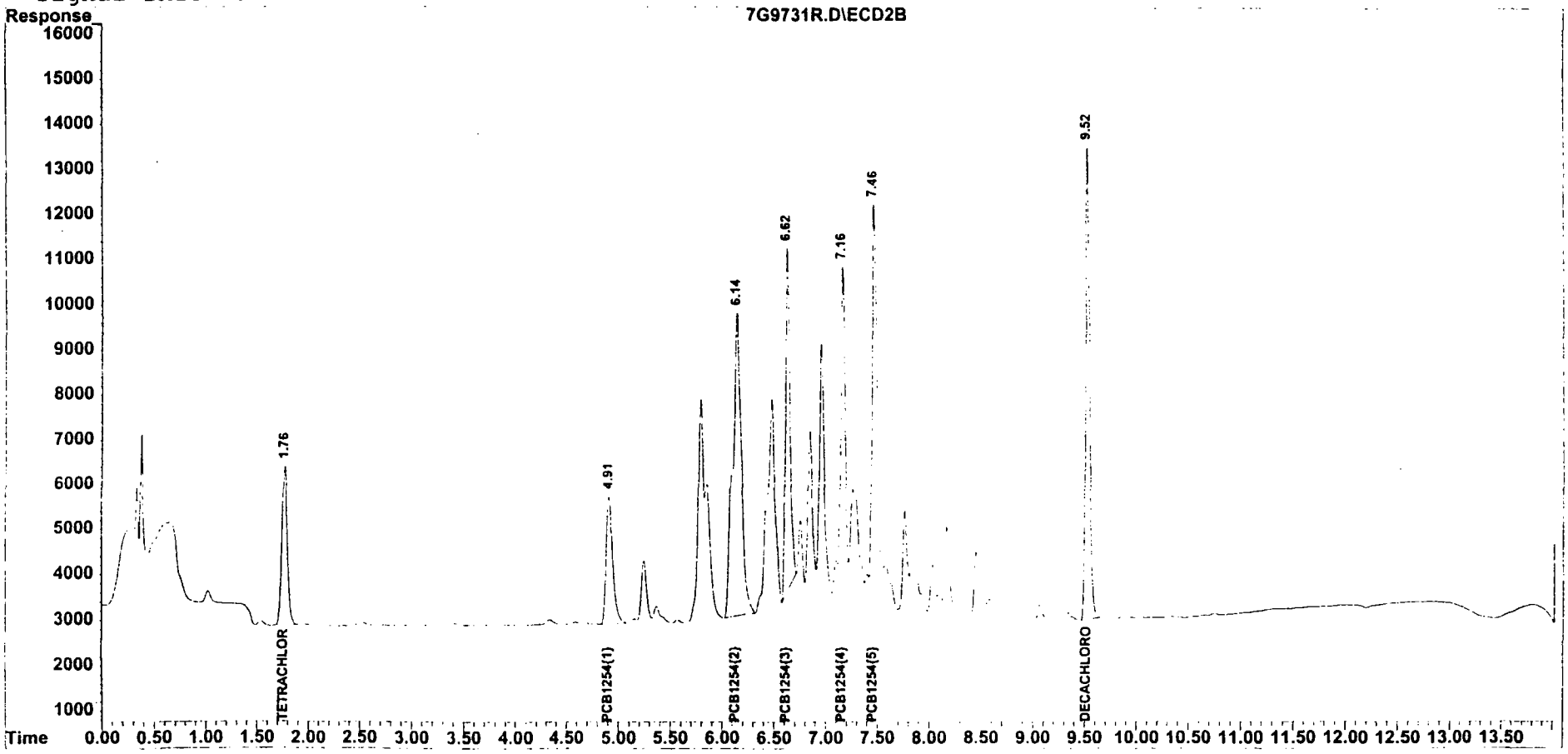
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9731R.D Vial: 62
Acq On : 14 Nov 2000 16:52 Operator: SMW
Sample : ICV 1254 0.25 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:12 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration
DataAcq Meth. : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9732R.D Vial: 63
Acq On : 14 Nov 2000 17:11 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:12 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

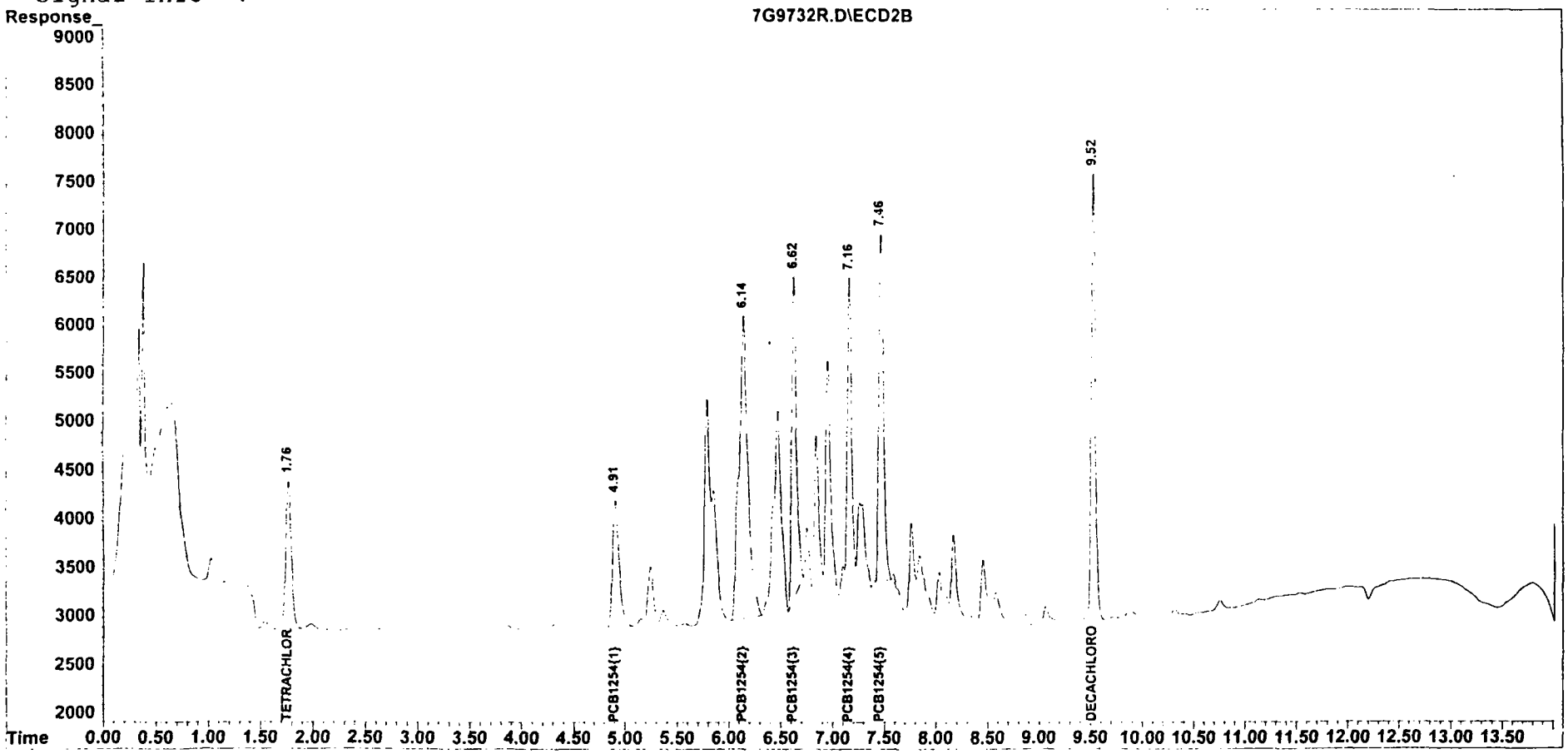
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	56418	5.201 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	26.01%#
7) S DECACHLOROBIPHENYL	9.52	122811	5.795 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	28.98%#
Target Compounds			
2) L1 PCB1254{1}	4.91	56372	117.135 UG/L
3) L1 PCB1254{2}	6.14	186776	127.382 UG/L
4) L1 PCB1254{3}	6.63	103660	113.575 UG/L
5) L1 PCB1254{4}	7.16	79134	77.903 UG/L
6) L1 PCB1254{5}	7.47	110777	115.231 UG/L
Sum PCB1254		536718	551.225 UG/L
Average PCB1254			110.245 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111100.SEQ\7G9732R.D Vial: 63
Acq On : 14 Nov 2000 17:11 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:12 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9733R.D Vial: 64
Acq On : 14 Nov 2000 17:30 Operator: SMW
Sample : ICV 1254 0.05 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:10 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/30/00
Last Update : Wed Nov 15 08:09:49 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	28299	2.609 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	13.05%#
7) S DECACHLOROBIPHENYL	9.52	66829	3.153 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	15.77%#
Target Compounds			
2) L1 PCB1254{1}	4.91	29214	60.704 UG/L
3) L1 PCB1254{2}	6.14	75076	51.202 UG/L
4) L1 PCB1254{3}	6.63	55035	60.299 UG/L
5) L1 PCB1254{4}	7.16	42333	63.565 UG/L
6) L1 PCB1254{5}	7.47	59595	61.991 UG/L
Sum PCB1254		261253	297.761 UG/L
Average PCB1254			59.552 UG/L

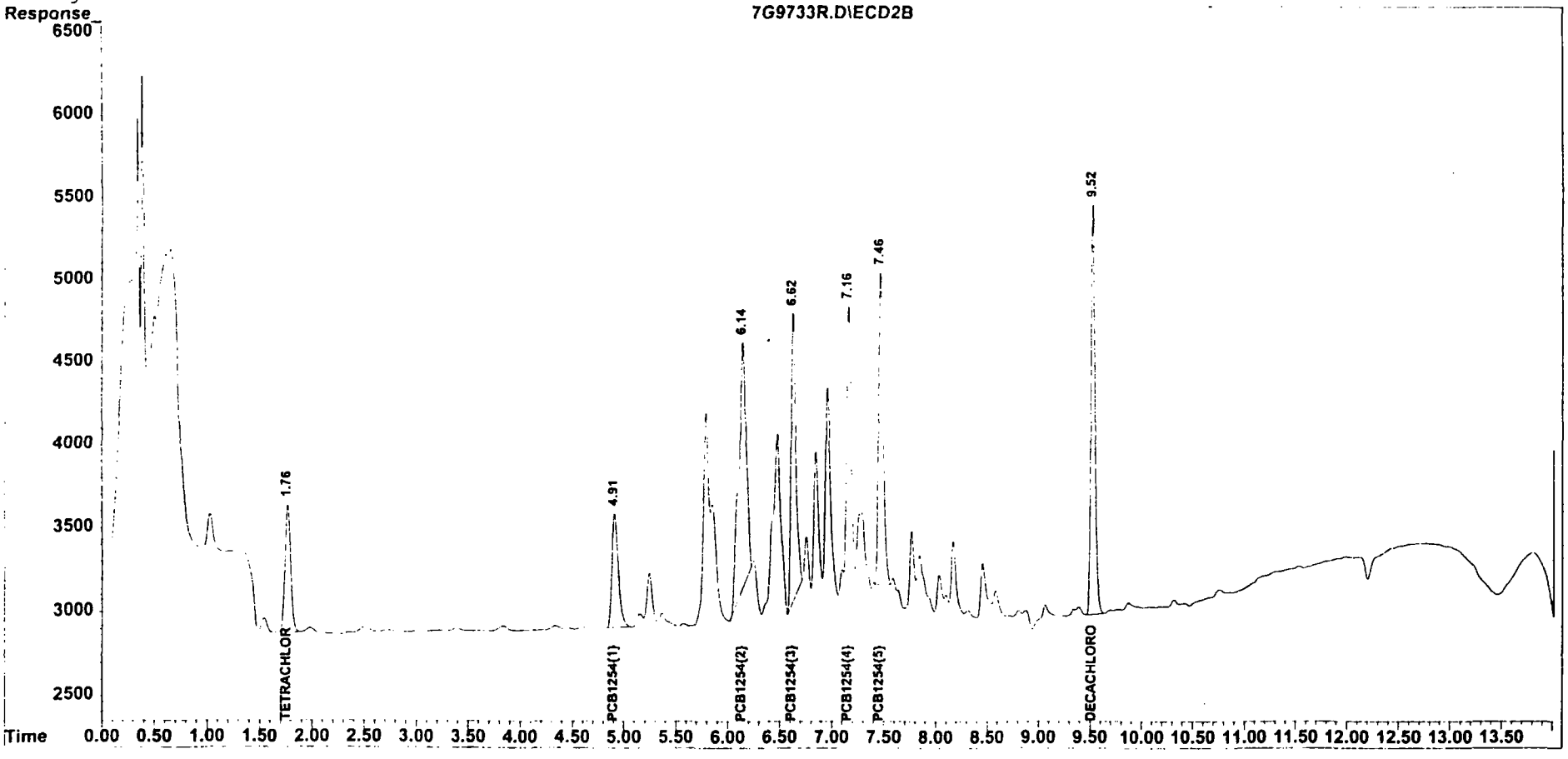
f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9733R.D Vial: 64
Acq On : 14 Nov 2000 17:30 Operator: SMW
Sample : TCV 1254 0.05 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:10 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 10/30/00
Last Update : Wed Nov 15 08:09:49 2000
Response via : Multiple Level Calibration
DataAcq Meth. : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9734R.D Vial: 65
Acq On : 14 Nov 2000 17:49 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	22.434	10.3	94	0.00
2	L1	PCB1254{1}	500.000	488.398	2.3	104	0.00
3	L1	PCB1254{2}	500.000	485.339	2.9	101	0.00
4	L1	PCB1254{3}	500.000	452.905	9.4	97	0.00
5	L1	PCB1254{4}	500.000	465.134	7.0	88	0.00
6	L1	PCB1254{5}	500.000	481.766	3.6	102	0.00
7	S	DECACHLOROBIPHENYL	25.000	22.999	8.0	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9734R.D Vial: 65
Acq On : 14 Nov 2000 17:49 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:11 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

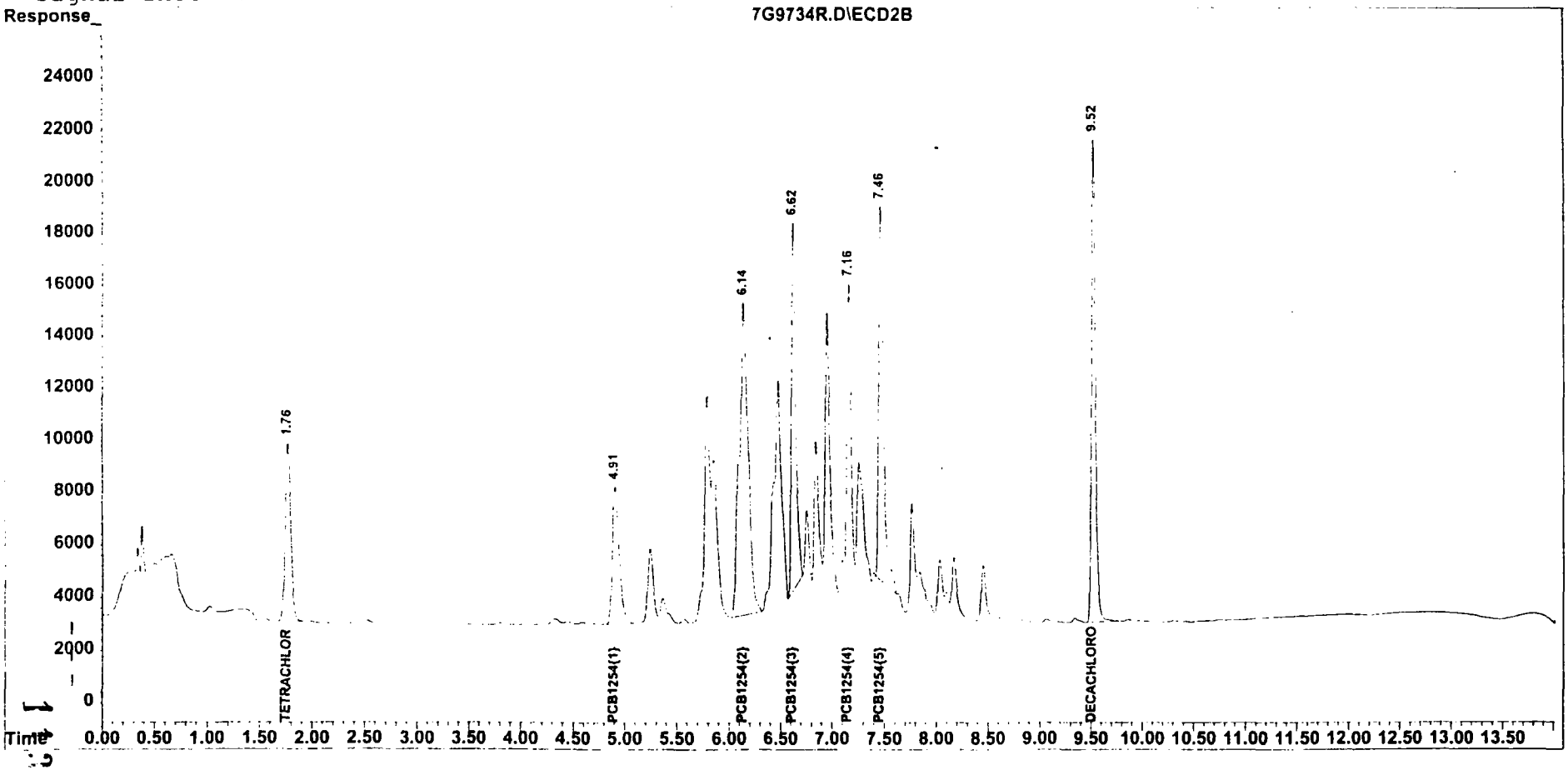
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	243356	22.434 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	112.17%
7) S DECACHLOROBIPHENYL	9.52	487400	22.999 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	115.00%
Target Compounds			
2) L1 PCB1254{1}	4.91	235044	488.398 UG/L
3) L1 PCB1254{2}	6.14	711635	485.339 UG/L
4) L1 PCB1254{3}	6.62	413365	452.905 UG/L
5) L1 PCB1254{4}	7.16	268726	465.134 UG/L
6) L1 PCB1254{5}	7.46	463146	481.766 UG/L
Sum PCB1254		2091917	2373.542 UG/L
Average PCB1254			474.708 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9734R.D Vial: 65
Acq On : 14 Nov 2000 17:49 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 15 8:11 2000 Quant Results File: 1254RCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254RCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/14/00
Last Update : Wed Nov 15 08:10:43 2000
Response via : Multiple Level Calibration
DataAcq Meth. : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9735R.D Vial: 66
Acq On : 14 Nov 2000 18:08 Operator: SMW
Sample : ICV 1221 0.5 PPM S49-04 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:13 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:52:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.76	296773	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	125.00%
2 S DECACHLOROBIPHENYL	9.52	539093	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	125.00%
Target Compounds			
2) L1 PCB1221{1}	1.00	66878	500.000 UG/L
3) L1 PCB1221{2}	2.12	70461	500.000 UG/L
4) L1 PCB1221{3}	2.51	241564	500.000 UG/L
5) L1 PCB1221{4}	3.39	15441	500.000 UG/L
6) L1 PCB1221{5}	4.34	27835	500.000 UG/L
Sum PCB1221		422179	2500.000 UG/L
Average PCB1221			500.000 UG/L

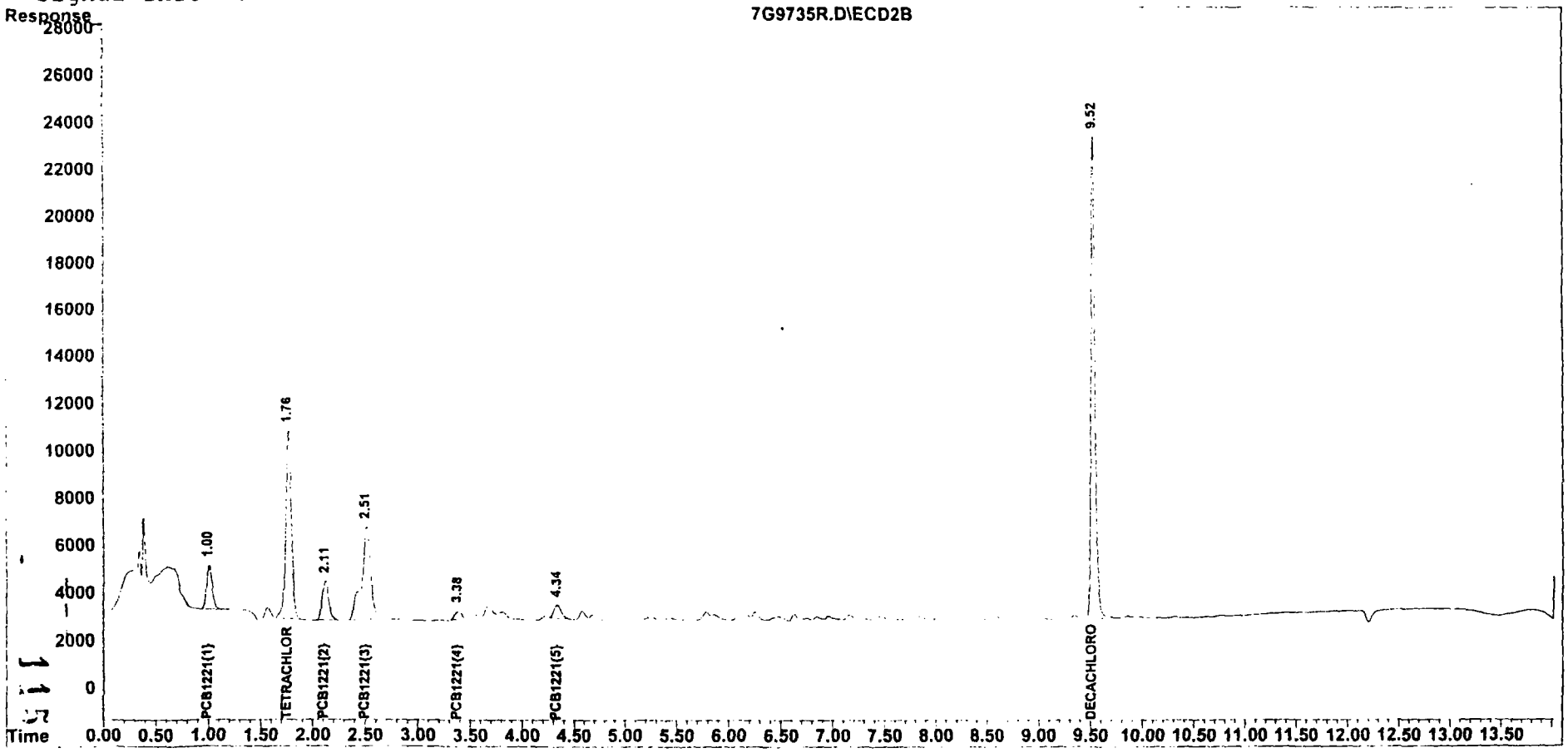
f'=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9735R.D Vial: 66
Acq On : 14 Nov 2000 18:08 Operator: SMW
Sample : ICV 1221 0.5 PPM S49-04 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:13 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:52:31 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9736R.D Vial: 67
Acq On : 14 Nov 2000 18:27 Operator: SMW
Sample : ICV 1232 0.5 PPM S49-31 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:14 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	286527	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	125.00%
7) S DECACHLOROBIPHENYL	9.52	535364	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	125.00%
Target Compounds			
2) L1 PCB1232{1}	1.00	46502	500.000 UG/L
3) L1 PCB1232{2}	2.51	176562	500.000 UG/L
4) L1 PCB1232{3}	3.38	135363	500.000 UG/L
5) L1 PCB1232{4}	4.33	208057	500.000 UG/L
6) L1 PCB1232{5}	5.87	117908	500.000 UG/L
Sum PCB1232		684392	2500.000 UG/L
Average PCB1232			500.000 UG/L

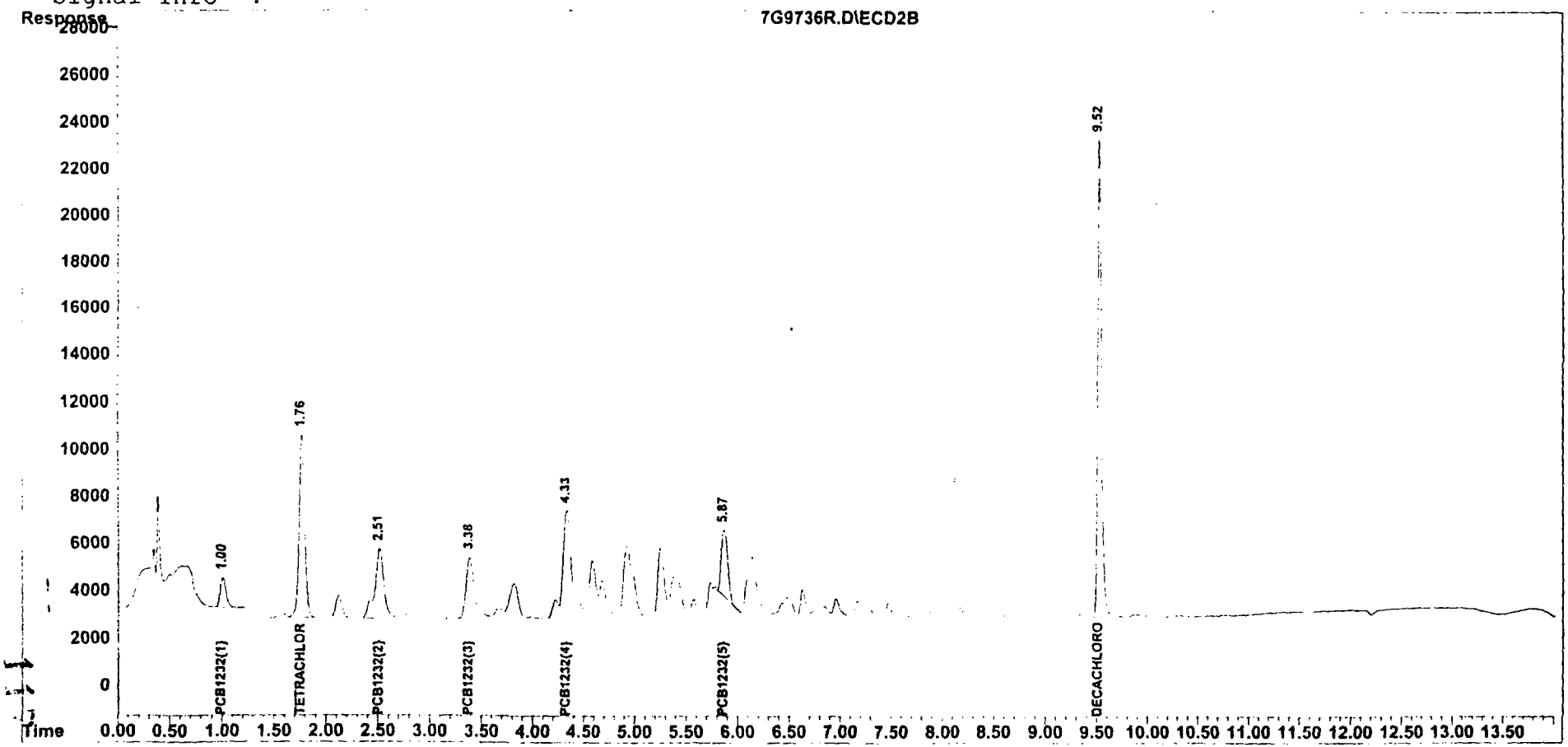
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9736R.D Vial: 67
Acq On : 14 Nov 2000 18:27 Operator: SHW
Sample : ICV 1232 0.5 PPM 549-31 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:14 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9737R.D Vial: 68
Acq On : 14 Nov 2000 18:45 Operator: SMW
Sample : ICV 1242 0.5 PPM S49-50 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:16 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.76	285558	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	125.00%
7 S DECACHLOROBIPHENYL	9.52	545253	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	125.00%
Target Compounds			
2) L1 PCB1242(1)	2.51	152545	500.000 UG/L
3) L1 PCB1242(2)	3.38	248629	500.000 UG/L
4) L1 PCB1242(3)	4.33	390331	500.000 UG/L
5) L1 PCB1242(4)	5.25	176948	500.000 UG/L
6) L1 PCB1242(5)	5.87	254135	500.000 UG/L
Sum PCB1242		1222588	2500.000 UG/L
Average PCB1242			500.000 UG/L

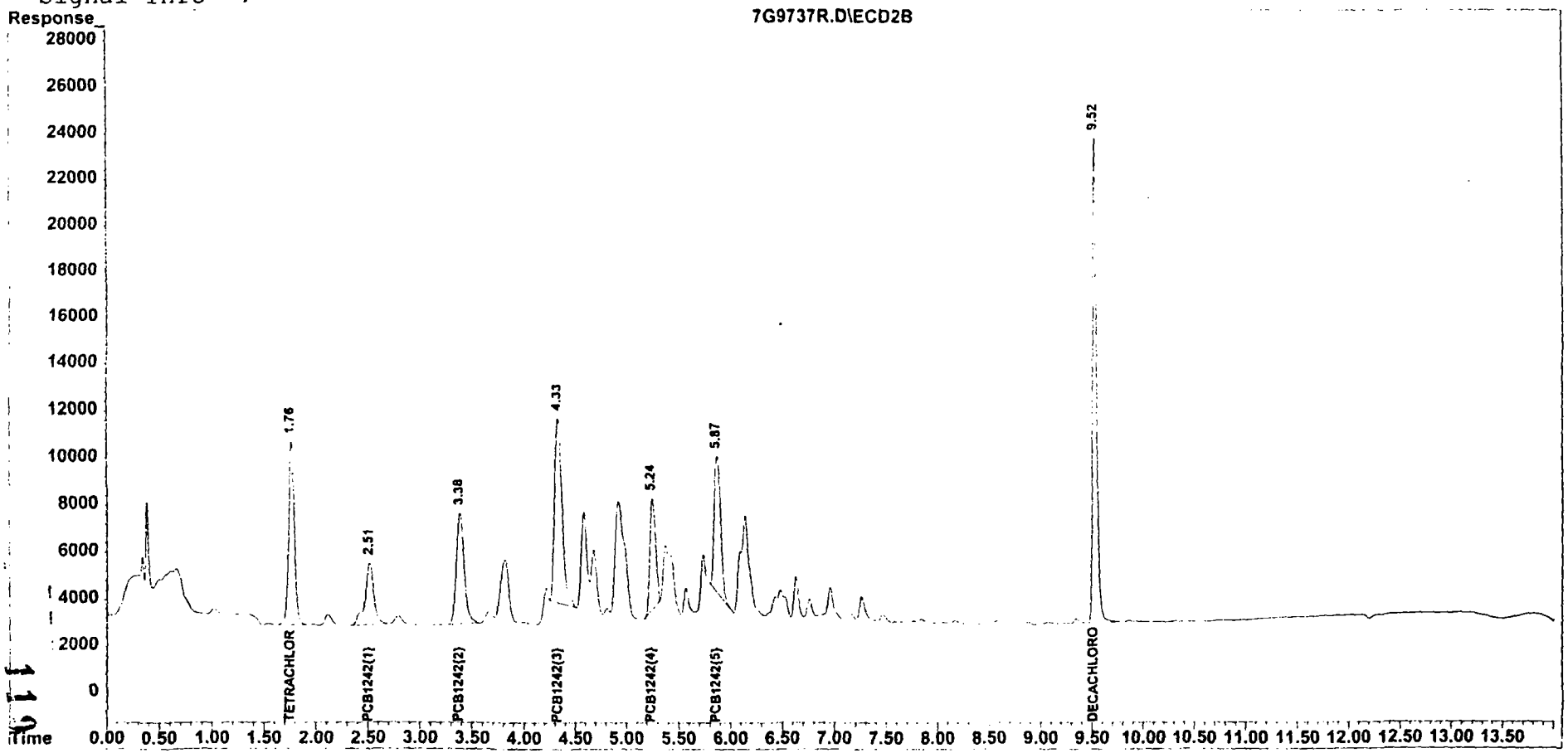
(m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9737R.D Vial: 68
Acq On : 14 Nov 2000 18:45 Operator: SMW
Sample : ICV 1242 0.5 PPM 549-50 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:16 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9738R.D Vial: 69
Acq On : 14 Nov 2000 19:04 Operator: SMW
Sample : ICV 1248 0.5 PPM S50-01 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:17 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	262900	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	125.00%
7) S DECACHLOROBIPHENYL	9.52	519293	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	125.00%
Target Compounds			
2) L1 PCB1248{1}	4.33	285163	500.000 UG/L
3) L1 PCB1248{2}	4.92	466047	500.000 UG/L
4) L1 PCB1248{3}	5.25	245650	500.000 UG/L
5) L1 PCB1248{4}	5.87	394951	500.000 UG/L
6) L1 PCB1248{5}	6.62	110835	500.000 UG/L
Sum PCB1248		1502647	2500.000 UG/L
Average PCB1248			500.000 UG/L

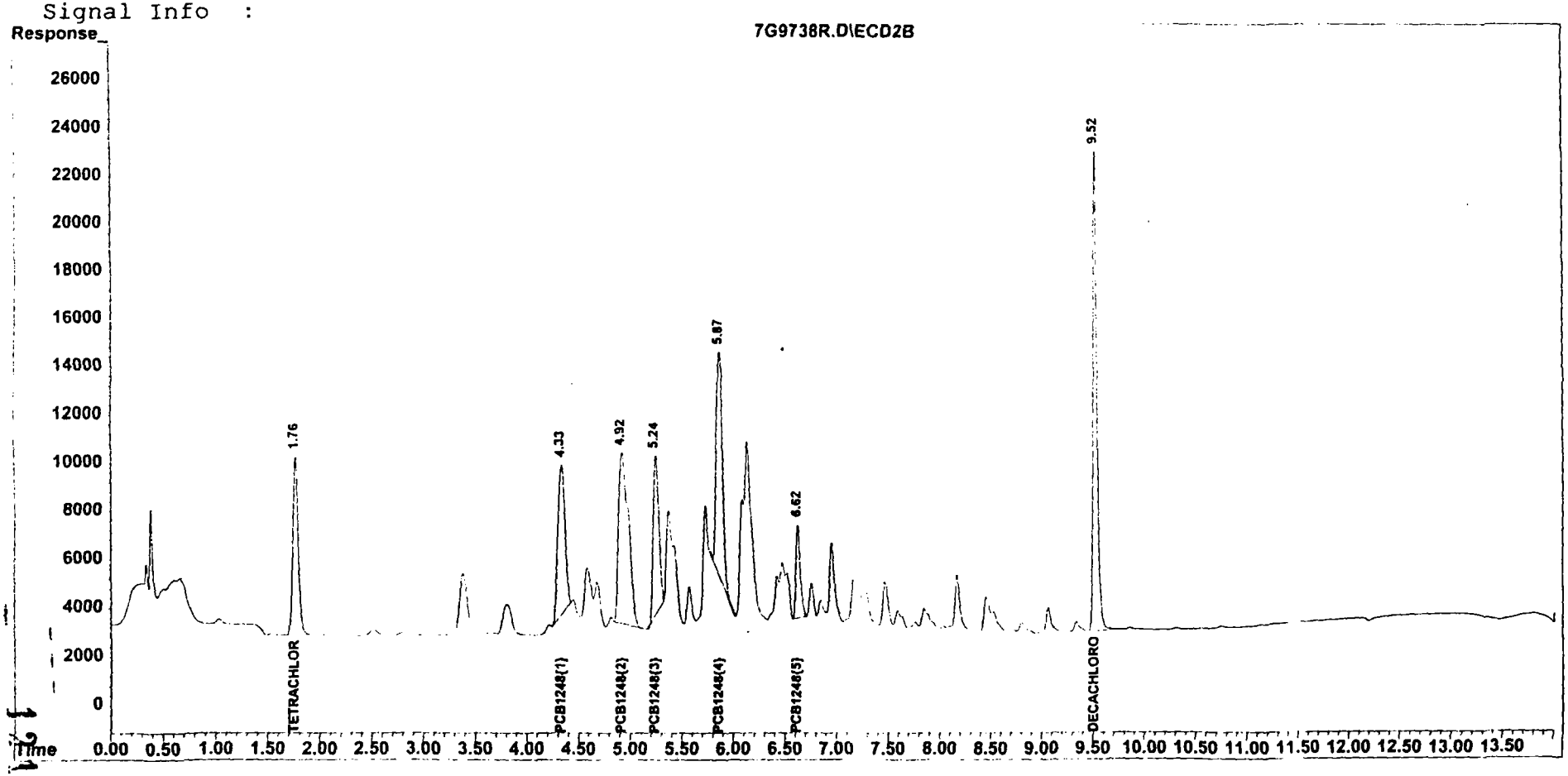
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9738R.D Vial: 69
Acq On : 14 Nov 2000 19:04 Operator: SMW
Sample : ICV 1248 0.5 PPM S50-01 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:17 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9739R.D Vial: 70
Acq On : 14 Nov 2000 19:23 Operator: SMW
Sample : ALT 1221 0.5 PPM 50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:52:31 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	2.067	91.7#	8	-0.03
2	L1	PCB1221{1}	500.000	527.482	-5.5	105	0.00
3	L1	PCB1221{2}	500.000	531.879	-6.4	106	0.00
4	L1	PCB1221{3}	500.000	531.044	-6.2	106	0.00
5	L1	PCB1221{4}	500.000	519.997	-4.0	104	0.00
6	L1	PCB1221{5}	500.000	531.445	-6.3	106	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9739R.D Vial: 70
Acq On : 14 Nov 2000 19:23 Operator: SMW
Sample : ALT 1221 0.5 PPM 50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:13 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:52:31 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1 S TETRACHLORO-M-XYL	1.73f	24542	2.067 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	10.34%#
2 S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1221{1}	1.00	70554	527.482 UG/L
3) L1 PCB1221{2}	2.12	74954	531.879 UG/L
4) L1 PCB1221{3}	2.51	256562	531.044 UG/L
5) L1 PCB1221{4}	3.39	16059	519.997 UG/L
6) L1 PCB1221{5}	4.34	29586	531.445 UG/L
Sum PCB1221		447714	2641.846 UG/L
Average PCB1221			528.369 UG/L

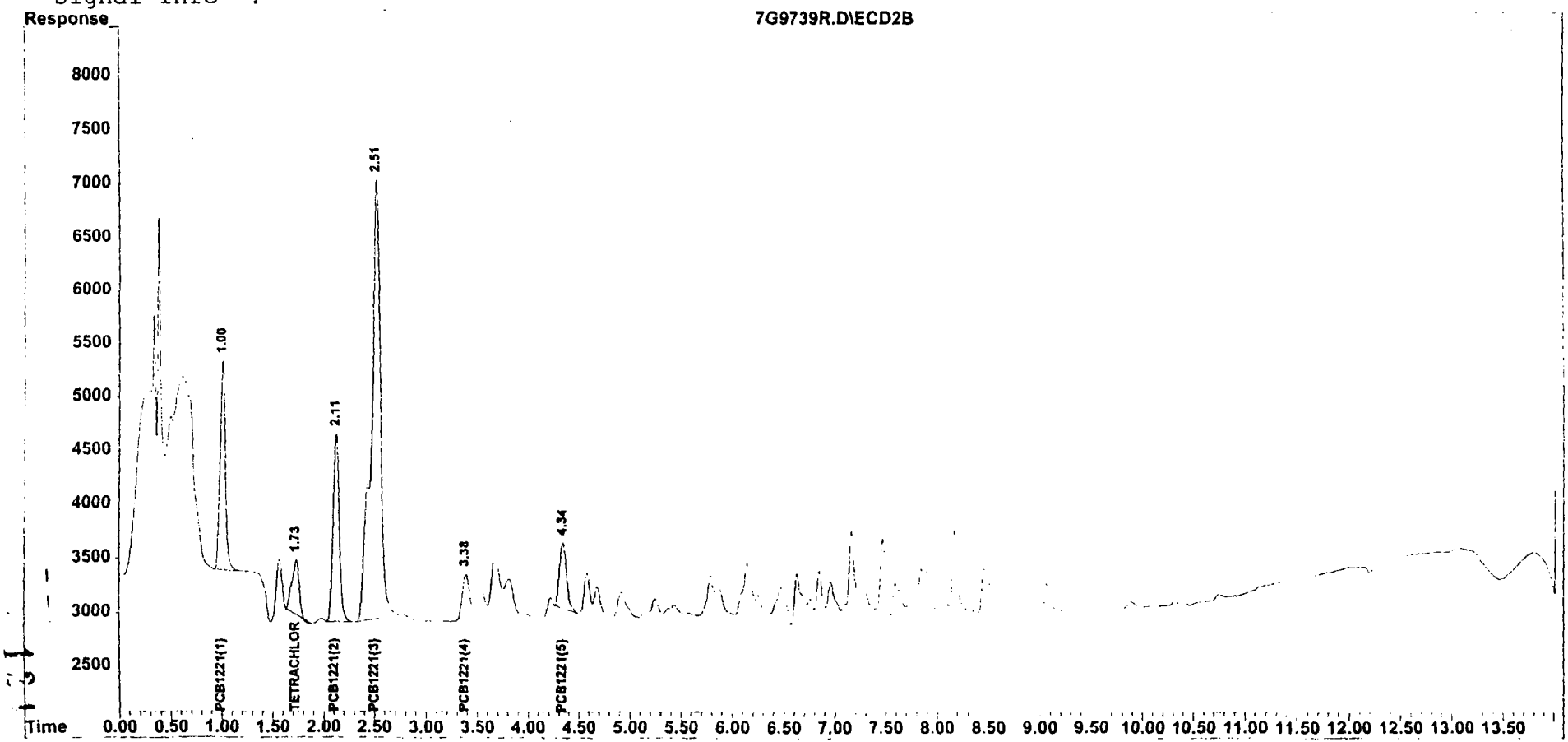
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEQ\7G9739R.D Vial: 79
Acq On : 14 Nov 2000 19:23 Operator: SMW
Sample : ALT 1221 0.5 PPM 50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:13 2000 Quant Results File: 1221SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:52:31 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9740R.D Vial: 71
Acq On : 14 Nov 2000 19:42 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	2.057	91.8#	8	-0.03
2	I1	PCB1232(1)	500.000	525.009	-5.0	105	0.00
3	I1	PCB1232(2)	500.000	538.904	-7.8	108	0.00
4	I1	PCB1232(3)	500.000	550.347	-10.1	110	0.00
5	I1	PCB1232(4)	500.000	549.933	-10.0	110	0.00
6	I1	PCB1232(5)	500.000	550.841	-10.2	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9740R.D Vial: 71
Acq On : 14 Nov 2000 19:42 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:15 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.73f	23573	2.057 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	10.29%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1232{1}	1.00	48827	525.009 UG/L
3) L1 PCB1232{2}	2.51	190299	538.904 UG/L
4) L1 PCB1232{3}	3.38	148993	550.347 UG/L
5) L1 PCB1232{4}	4.34	228835	549.933 UG/L
6) L1 PCB1232{5}	5.87	129897	550.841 UG/L
Sum PCB1232		746853	2715.034 UG/L
Average PCB1232			543.007 UG/L

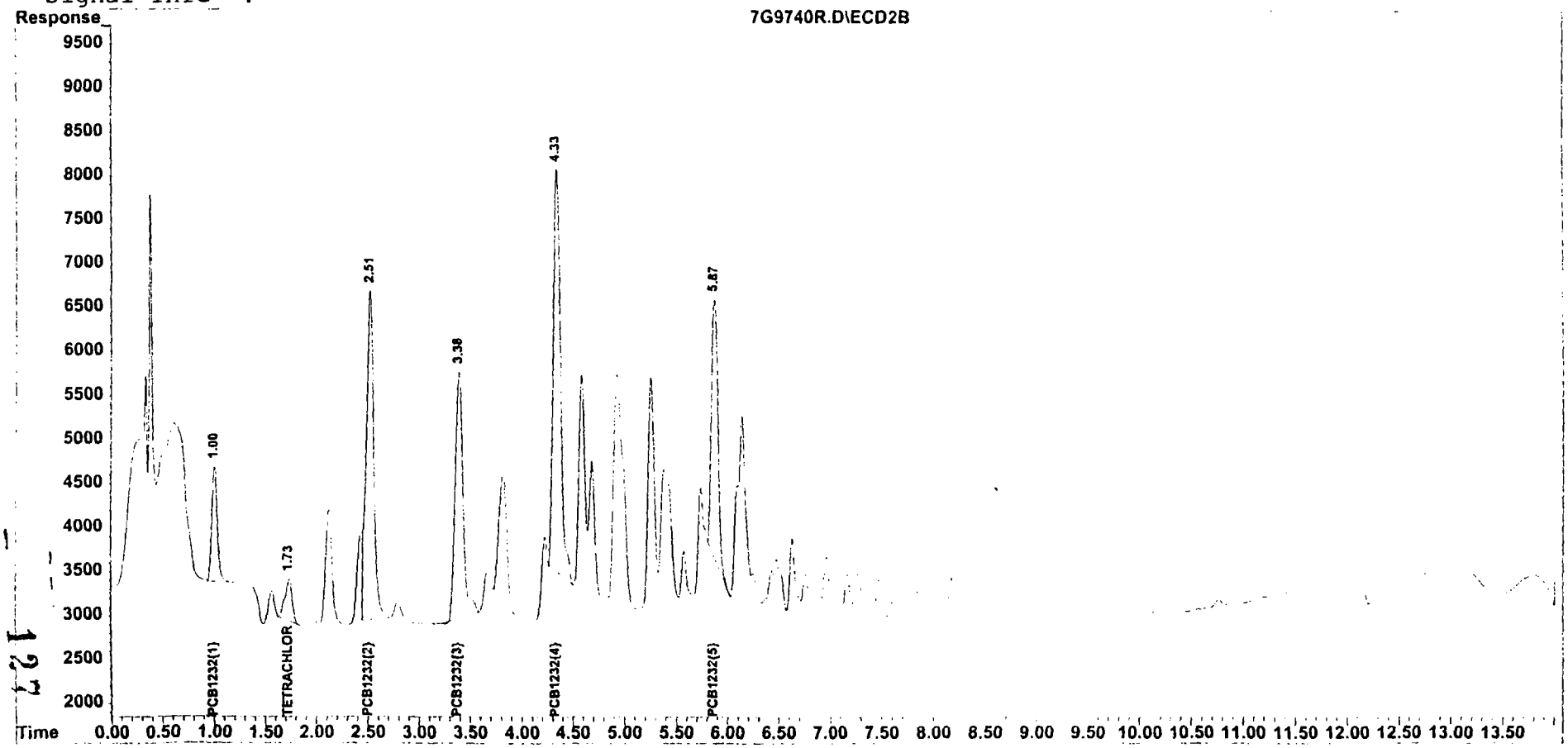
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9740R.D Vial: 71
Acq On : 14 Nov 2000 19:42 Operator: SHW
Sample : ALT 1232 0.5 PPM SHW 32 Inst : HP7
Misc : Multipl: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:15 2000 Quant Results File: 1232SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:55:12 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9741R.D Vial: 72
Acq On : 14 Nov 2000 20:01 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	1.366	94.5#	5	-0.03
2	L1	PCB1242(1)	500.000	483.925	3.2	97	0.00
3	L1	PCB1242(2)	500.000	456.085	8.8	91	0.00
4	L1	PCB1242(3)	500.000	467.067	6.6	93	0.00
5	L1	PCB1242(4)	500.000	471.338	5.7	94	0.00
6	L1	PCB1242(5)	500.000	477.713	4.5	96	0.00
7	S	DECACHLOROBIPHENYL	25.000	0.142	99.4#	1	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9741R.D Vial: 72
Acq On : 14 Nov 2000 20:01 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:16 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.73f	15603	1.366 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	6.83%#
7) S DECACHLOROBIPHENYL	9.54	3097	0.142 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.71%#
Target Compounds			
2) L1 PCB1242{1}	2.51	147640	483.925 UG/L
3) L1 PCB1242{2}	3.38	226792	456.085 UG/L
4) L1 PCB1242{3}	4.33	364622	467.067 UG/L
5) L1 PCB1242{4}	5.25	166804	471.338 UG/L
6) L1 PCB1242{5}	5.87	242807	477.713 UG/L
Sum PCB1242		1148666	2356.128 UG/L
Average PCB1242			471.226 UG/L

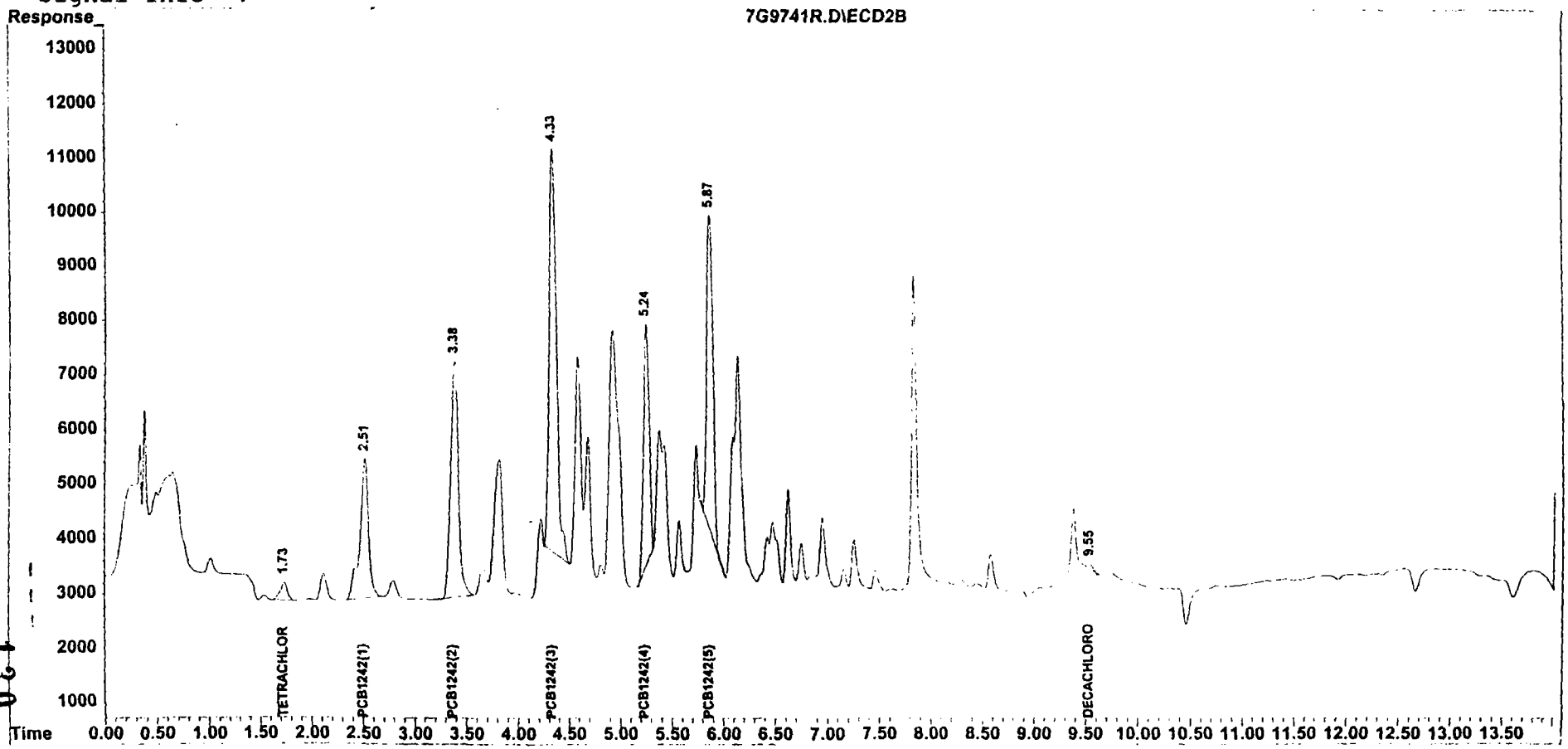
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9741R.D Vial: 72
Acq On : 14 Nov 2000 20:01 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:16 2000 Quant Results File: 1242SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:57:39 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9742R.D Vial: 73
Acq On : 14 Nov 2000 20:20 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1248{1}	500.000	303.650	39.3#	61	-0.01
3	L1	PCB1248{2}	500.000	379.773	24.0#	76	0.00
4	L1	PCB1248{3}	500.000	450.234	9.9	90	0.00
5	L1	PCB1248{4}	500.000	509.417	-1.9	102	0.00
6	L1	PCB1248{5}	500.000	460.142	8.0	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111400.SEC\7G9742R.D Vial: 73
Acq On : 14 Nov 2000 20:20 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:20 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1248{1}	4.32	173179	303.650 UG/L
3) L1 PCB1248{2}	4.91	353984	379.773 UG/L
4) L1 PCB1248{3}	5.24	221225	450.284 UG/L
5) L1 PCB1248{4}	5.86	402389	509.417 UG/L
6) L1 PCB1248{5}	6.62	101999	460.142 UG/L
Sum PCB1248		1252777	2103.265 UG/L
Average PCB1248			420.653 UG/L

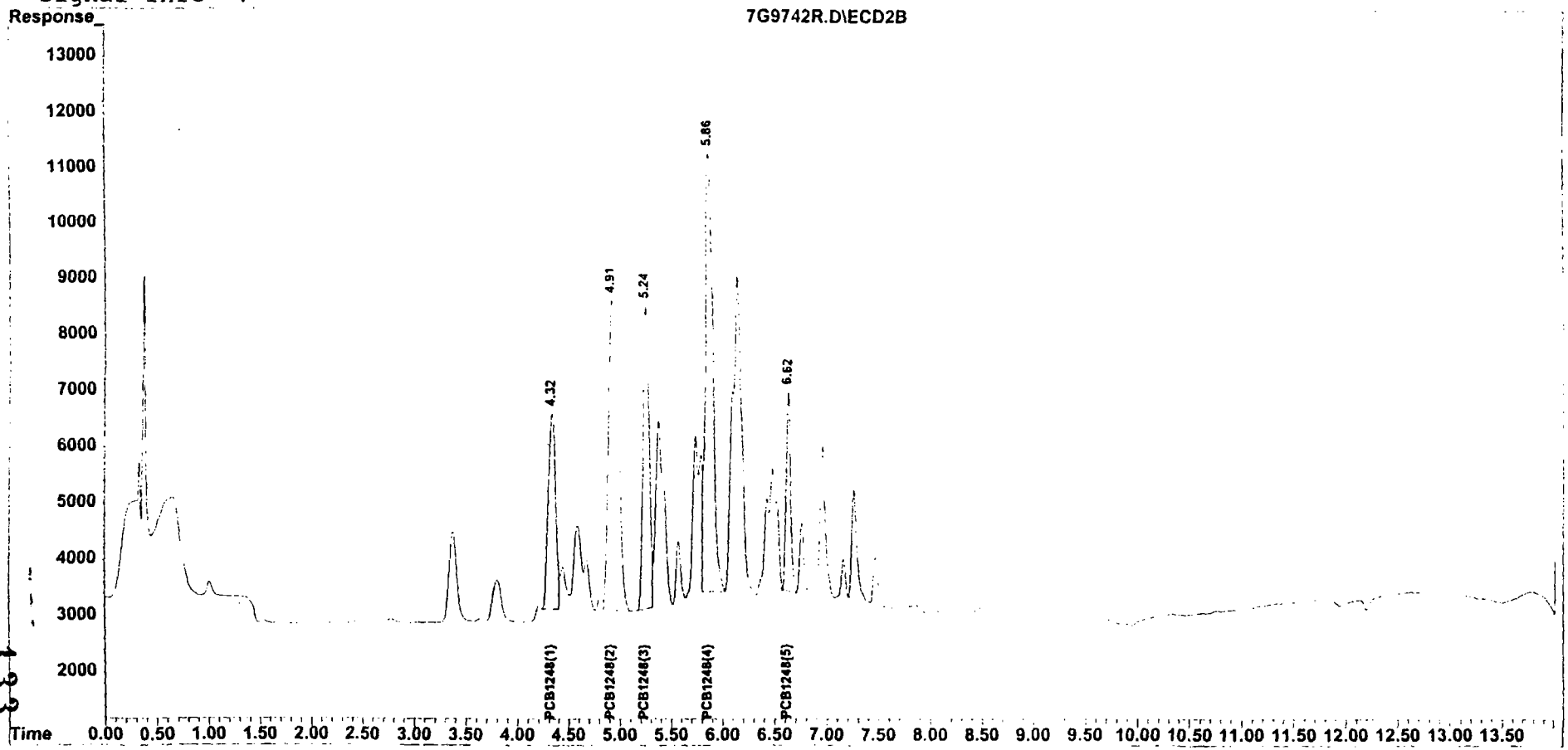
(f)=RT Delta > 1/2 Window (m)=manual Int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111400 SEC\7G9742R.D Vial: 73
Acq On : 14 Nov 2000 20:20 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multipl: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 15 8:20 2000 Quant Results File: 1248SR.PES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



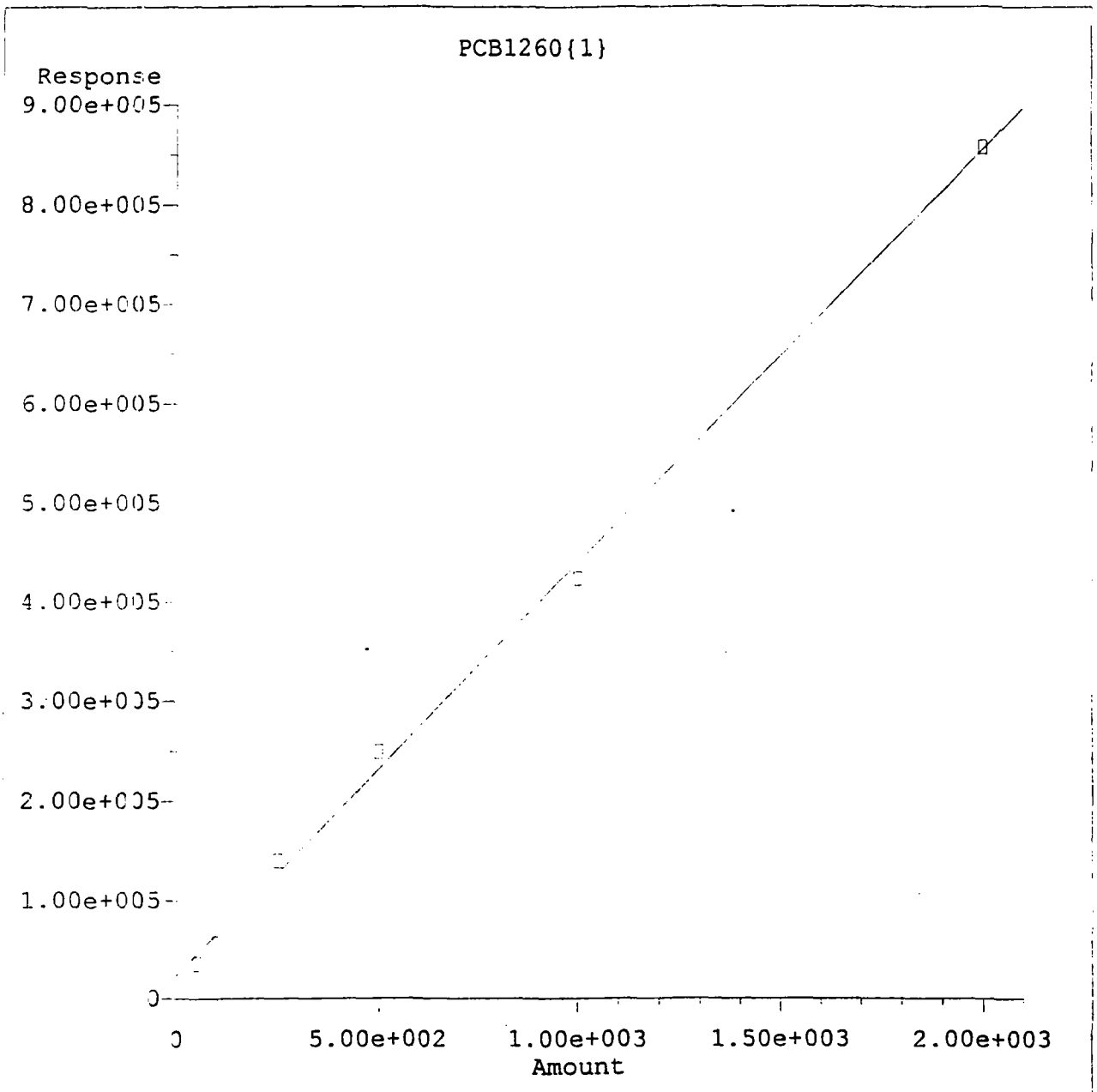
Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000

Calibration Files
50 =7G9814.D 100 =7G9813.D 250 =7G9812.D
500 =7G9811.D 1000 =7G9810.D 2000 =7G9809.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	8.917	7.283	7.977	7.539	7.008	8.809	7.922	E3	10.05
2)	L1	PCB1016{1}	2.569	2.047	2.185	1.965	1.720	1.944	2.072	E2	13.86
3)	L1	PCB1016{2}	4.997	4.008	3.919	3.121	3.103	3.496	3.774	E2	18.83
4)	L1	PCB1016{3}	1.056	0.841	0.858	0.765	0.668	0.738	0.821	E3	16.40
5)	L1	PCB1016{4}	4.142	3.330	3.493	3.153	2.775	3.113	3.334	E2	13.88
6)	L1	PCB1016{5}	2.725	2.233	2.399	2.185	1.928	2.080	2.258	E2	12.28
7)	L2	PCB1260{1}	7.075	5.642	5.615	4.978	4.233	4.290	5.305	E2	20.00
8)	L2	PCB1260{2}	7.357	5.951	6.176	5.547	4.829	5.019	5.813	E2	15.77
9)	L2	PCB1260{3}	1.054	0.842	0.880	0.717	0.680	0.699	0.812	E3	17.70
10)	L2	PCB1260{4}	1.074	0.887	0.980	0.895	0.791	0.804	0.905	E3	11.86
11)	L2	PCB1260{5}	3.056	2.531	2.825	2.635	2.358	2.365	2.628	E2	10.40
12)	S	DECACHLOROBIPHENYL	1.100	0.899	0.979	0.884	0.768	0.731	0.893	E4	15.19

(#) = Out of Range



Response = 4.16e+002 * Amt + 2.33e+004
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\8082F.M
Calibration Table Last Updated: Mon Nov 20 06:26:10 2000

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9809.D Vial: 2
Acq On : 17 Nov 2000 13:37 Operator: SMW
Sample : ICV 1660 2.0 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:31 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:28:45 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	880928	111.195 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 555.97%#	
12) S DECACHLOROBIPHENYL	10.94	730860	81.807 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 409.04%#	
Target Compounds			
2) L1 PCB1016{1}	4.41	388774	1876.555 UG/L
3) L1 PCB1016{2}	5.18	699172	1852.588 UG/L
4) L1 PCB1016{3}	5.90	1476934	1799.144 UG/L
5) L1 PCB1016{4}	6.10	622505	1867.026 UG/L
6) L1 PCB1016{5}	7.25	416057	1842.326 UG/L
Sum PCB1016		3603443	9237.639 UG/L
Average PCB1016			1847.528 UG/L
7) L2 PCB1260{1}	8.42	857926	2006.275 UG/L
8) L2 PCB1260{2}	8.79	1003745	1726.707 UG/L
9) L2 PCB1260{3}	9.44	1397892	1721.813 UG/L
10) L2 PCB1260{4}	9.80	1607765	1776.286 UG/L
11) L2 PCB1260{5}	10.37	472957	1799.520 UG/L
Sum PCB1260		5340284	9030.602 UG/L
Average PCB1260			1806.120 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

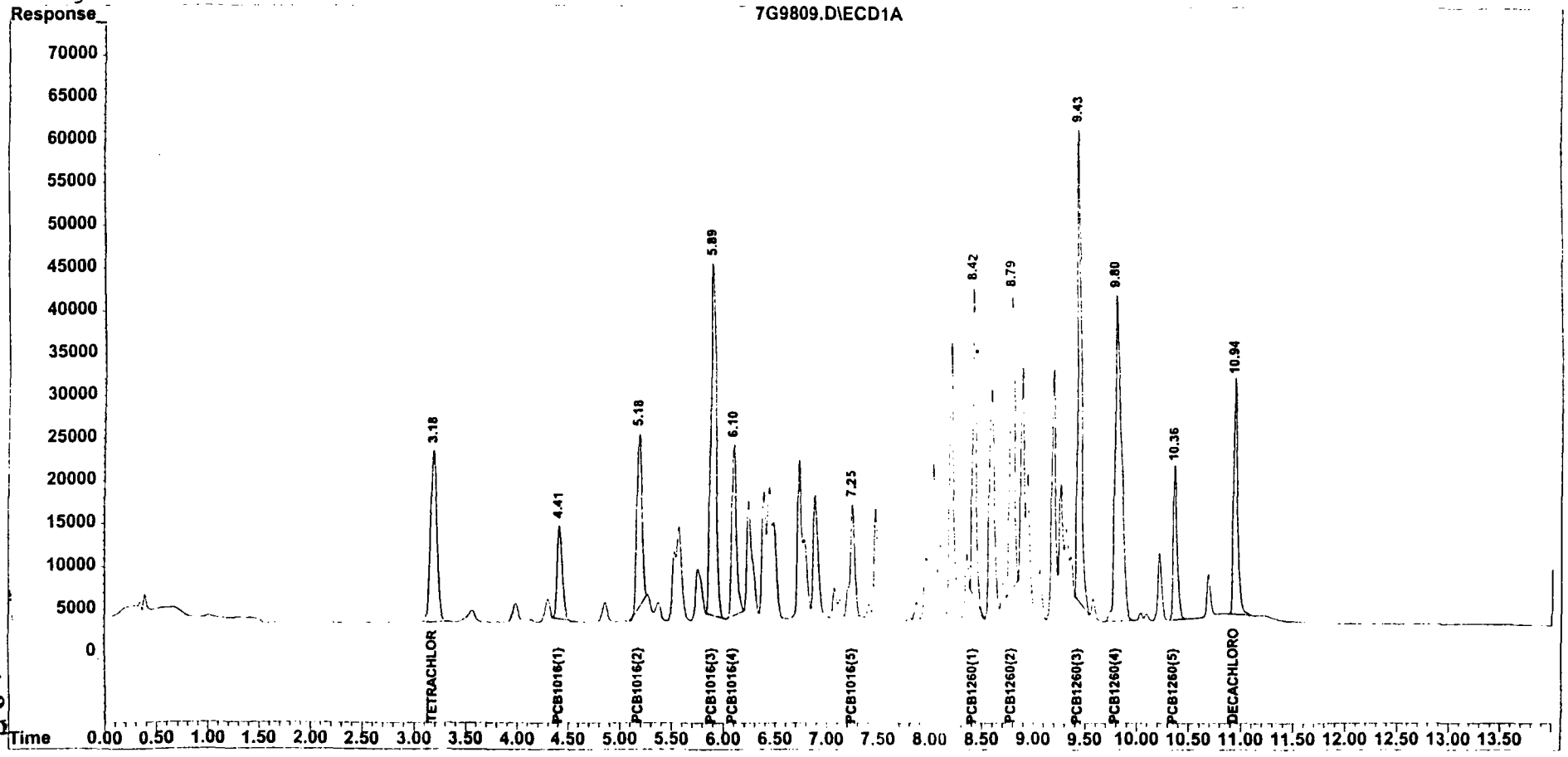
Quantitation Report

Data File : C:\HPCHEM\1\DATA\111700\7G9809.D
Acq On : 17 Nov 2000 13:37
Sample : ICV 1660 2.0 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Nov 20 6:31 2000 Quant Results File: 8082F.RES

Vial: 2
Operator: SMW
Inst : HP7
Multiple: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:28:45 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9810.D Vial: 3
Acq On : 17 Nov 2000 13:55 Operator: SMW
Sample : ICV 1660 1.0 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:31 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Thu Nov 16 07:16:26 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	350423	44.232 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	221.16%#
12) S DECACHLOROBIPHENYL	10.94	384039	42.986 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	214.93%#
Target Compounds			
2) L1 PCB1016{1}	4.41	172004	830.239 UG/L
3) L1 PCB1016{2}	5.18	310288	822.165 UG/L
4) L1 PCB1016{3}	5.89	667584	813.226 UG/L
5) L1 PCB1016{4}	6.09	277513	832.320 UG/L
6) L1 PCB1016{5}	7.25	192791	853.692 UG/L
Sum PCB1016		1620180	4151.641 UG/L
Average PCB1016			830.328 UG/L
7) L2 PCB1260{1}	8.41	423340	961.596 UG/L
8) L2 PCB1260{2}	8.79	482893	830.704 UG/L
9) L2 PCB1260{3}	9.43	679890	837.434 UG/L
10) L2 PCB1260{4}	9.80	791419	874.373 UG/L
11) L2 PCB1260{5}	10.36	235823	897.268 UG/L
Sum PCB1260		2613365	4401.375 UG/L
Average PCB1260			880.275 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

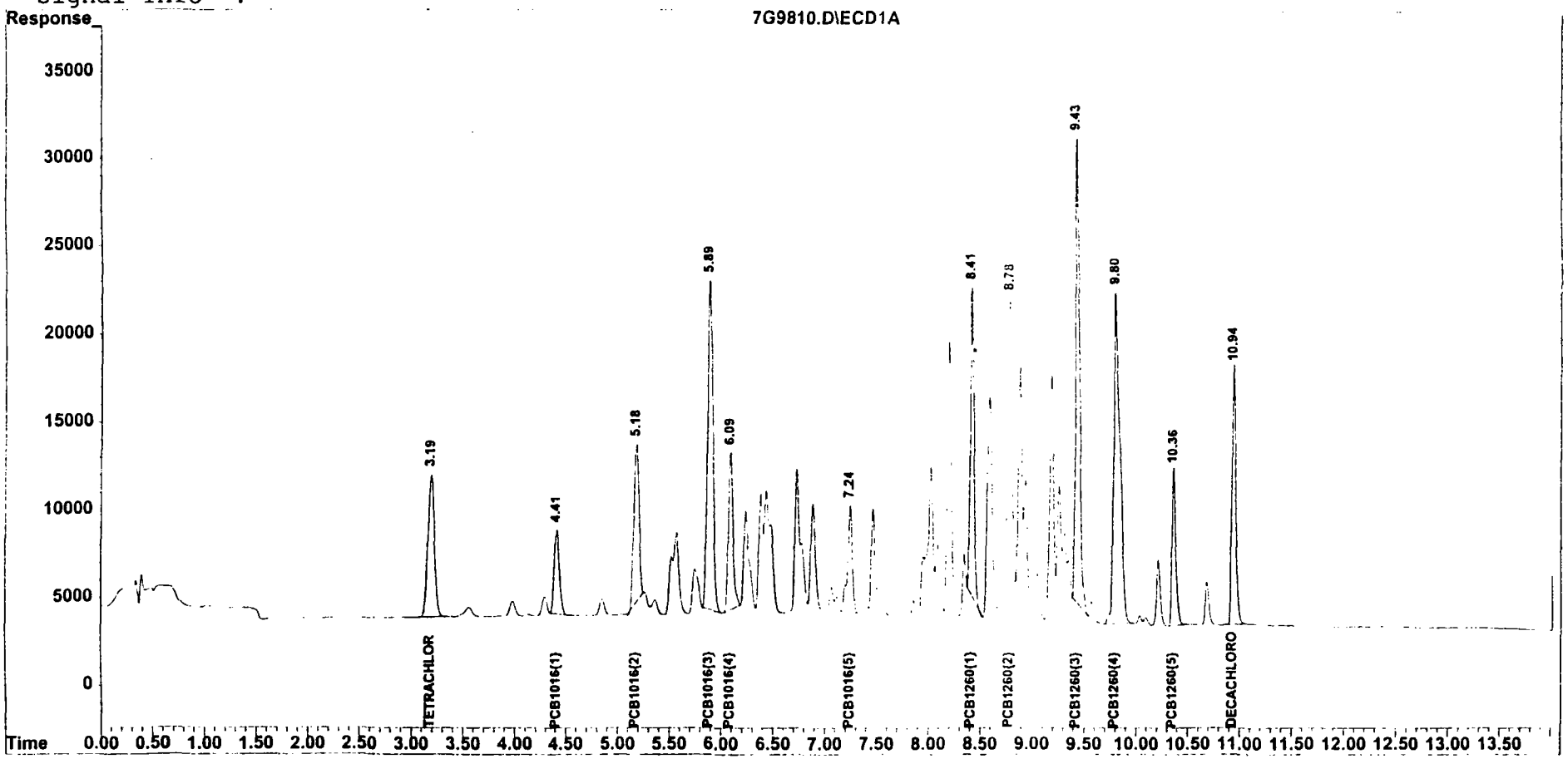
Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9810.D
Acq On : 17 Nov 2000 13:55
Sample : ICV 1660 1.0 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Nov 20 6:31 2000 Quant Results File: 8082F.RES

Vial : 3
Operator : SMW
Inst : HP7
Multiplier : 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Thu Nov 16 07:16:26 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9811.D Vial: 4
Acq On : 17 Nov 2000 14:14 Operator: SMW
Sample : ICV 1660 0.5 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:31 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Thu Nov 16 07:16:26 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

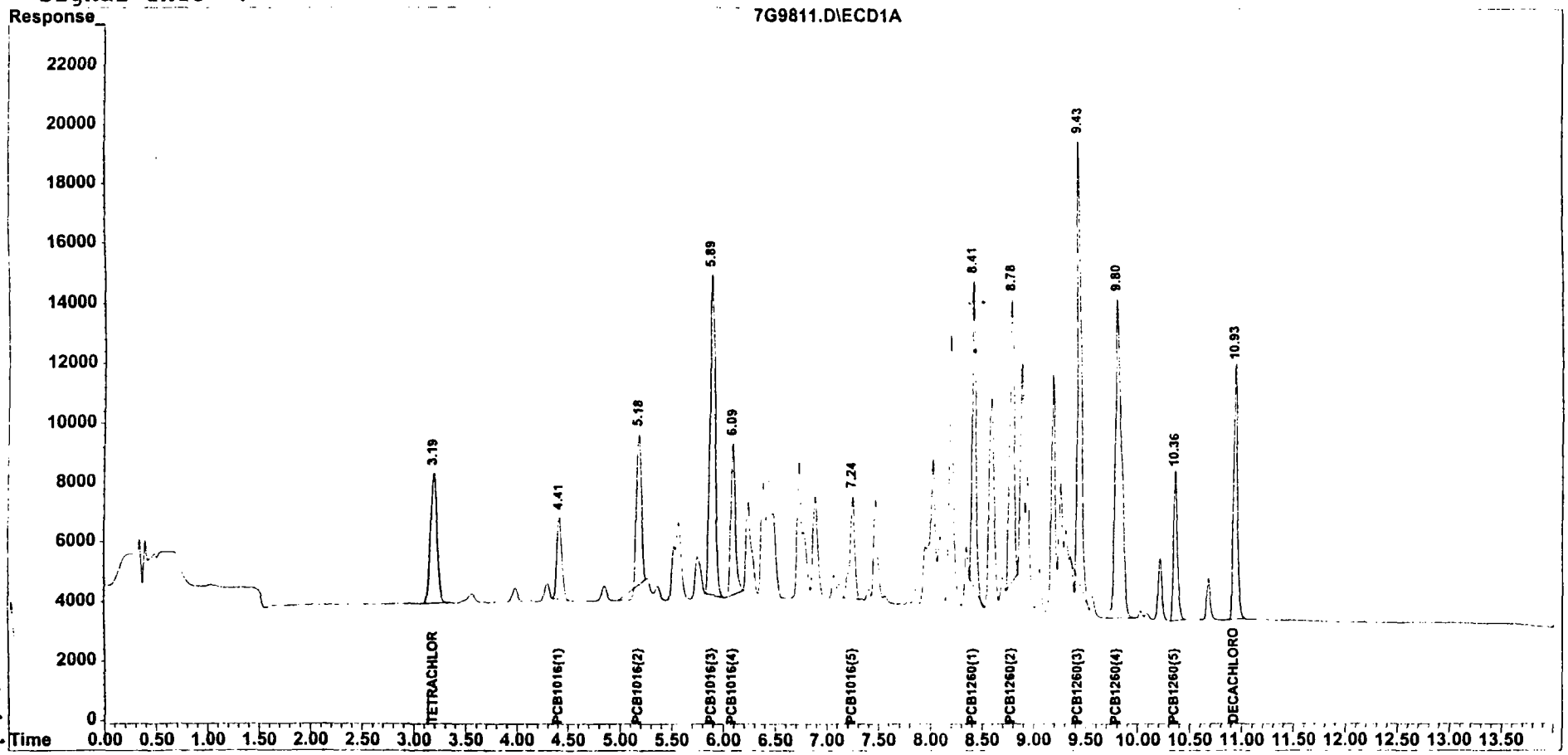
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	188477	23.790 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 118.95%	
12) S DECACHLOROBIPHENYL	10.94	221082	24.746 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 123.73%	
Target Compounds			
2) L1 PCB1016{1}	4.41	98257	474.272 UG/L
3) L1 PCB1016{2}	5.18	156062	413.516 UG/L
4) L1 PCB1016{3}	5.89	382354	465.768 UG/L
5) L1 PCB1016{4}	6.09	157657	472.848 UG/L
6) L1 PCB1016{5}	7.24	109266	483.835 UG/L
Sum PCB1016		903596	2310.240 UG/L
Average PCB1016			462.048 UG/L
7) L2 PCB1260{1}	8.41	248878	542.213 UG/L
8) L2 PCB1260{2}	8.78	277368	477.146 UG/L
9) L2 PCB1260{3}	9.43	358318	441.348 UG/L
10) L2 PCB1260{4}	9.80	447639	494.560 UG/L
11) L2 PCB1260{5}	10.36	131755	501.308 UG/L
Sum PCB1260		1463958	2456.575 UG/L
Average PCB1260			491.315 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G9811.D 8082F.M Mon Nov 20 06:52:40 2000

Data File : C:\HPCHEM\1\DATA\111700\7G9811.D Vial: 4
Acq On : 17 Nov 2000 14:14 Operator: SMW
Sample : ICV 1660 0.5 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:31 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Thu Nov 16 07:16:26 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9812.D Vial: 5
Acq On : 17 Nov 2000 14:33 Operator: SMW
Sample : ICV 1660 0.25 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:28 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:26:10 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

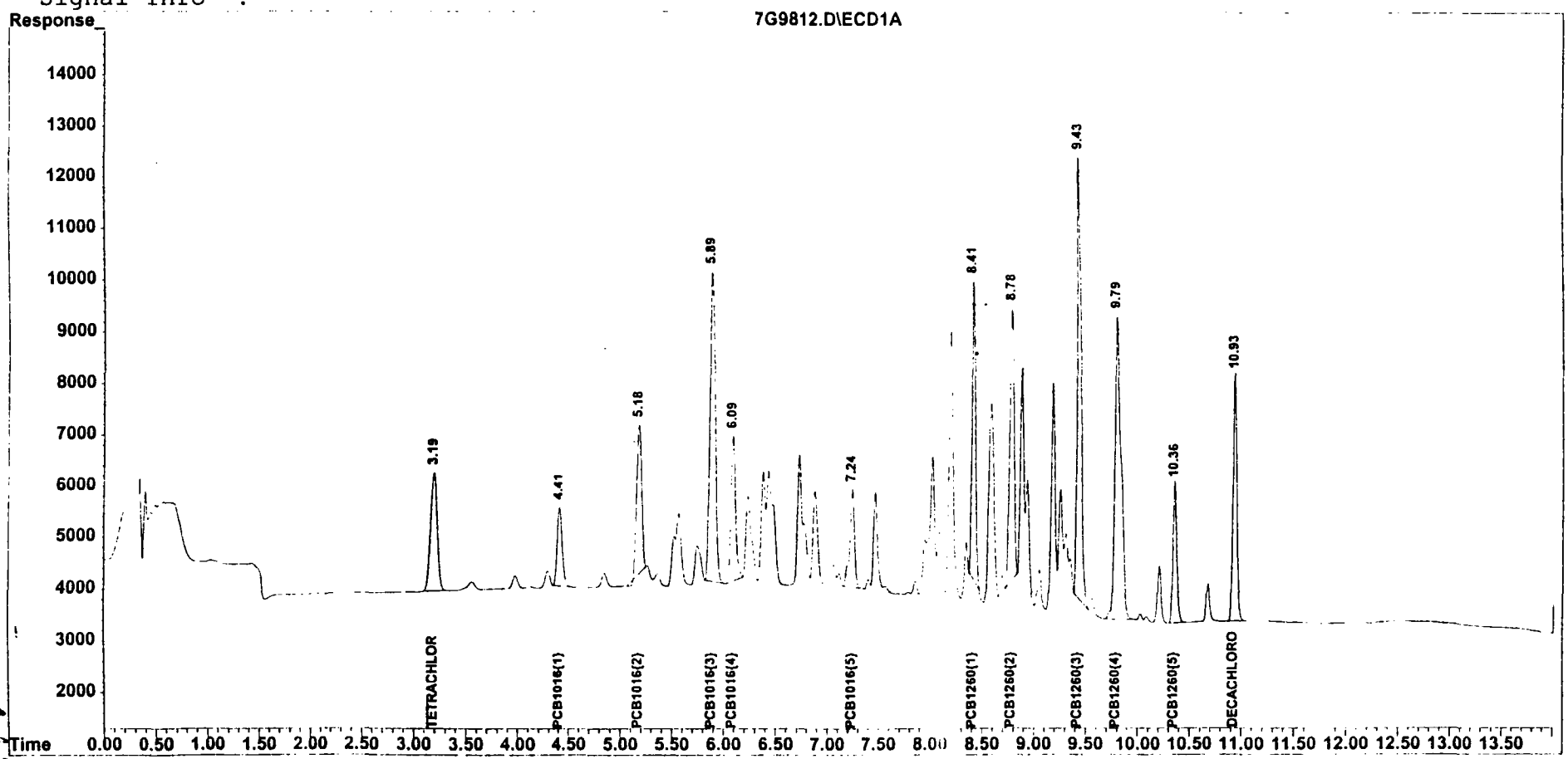
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	99714	12.586 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	62.93%
12) S DECACHLOROBIPHENYL	10.94	122354	13.695 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	68.47%
Target Compounds			
2) L1 PCB1016{1}	4.41	54632	263.699 UG/L
3) L1 PCB1016{2}	5.18	97976	259.605 UG/L
4) L1 PCB1016{3}	5.89	214439	261.221 UG/L
5) L1 PCB1016{4}	6.09	87322	261.899 UG/L
6) L1 PCB1016{5}	7.24	59966	265.531 UG/L
Sum PCB1016		514334	1311.955 UG/L
Average PCB1016			262.391 UG/L
7) L2 PCB1260{1}	8.41	140364	263.983 UG/L
8) L2 PCB1260{2}	8.78	154400	265.609 UG/L
9) L2 PCB1260{3}	9.43	219965	270.935 UG/L
10) L2 PCB1260{4}	9.80	244961	270.638 UG/L
11) L2 PCB1260{5}	10.36	70617	268.685 UG/L
Sum PCB1260		830307	1339.850 UG/L
Average PCB1260			267.970 UG/L

Data File : C:\HPCHEM\1\DATA\111700\7G9812.D Vial: 5
Acq On : 17 Nov 2000 14:33 Operator: SMW
Sample : ICV 1660 0.25 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:28 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:26:10 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9813.D Vial: 6
Acq On : 17 Nov 2000 14:52 Operator: SMW
Sample : ICV 1660 0.1 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:27 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:26:10 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	36415	4.596 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	22.98%
12) S DECACHLOROBIPHENYL	10.94	44934	5.030 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	25.15%
Target Compounds			
2) L1 PCB1016{1}	4.41	20472	98.815 UG/L
3) L1 PCB1016{2}	5.18	40079	103.043 UG/L
4) L1 PCB1016{3}	5.89	84067	102.407 UG/L
5) L1 PCB1016{4}	6.09	33299	99.872 UG/L
6) L1 PCB1016{5}	7.24	22329	98.873 UG/L
Sum PCB1016		200246	503.010 UG/L
Average PCB1016			100.602 UG/L
7) L2 PCB1260{1}	8.41	56416	106.030 UG/L
8) L2 PCB1260{2}	8.78	59506	102.365 UG/L
9) L2 PCB1260{3}	9.43	84236	103.755 UG/L
10) L2 PCB1260{4}	9.80	88674	97.969 UG/L
11) L2 PCB1260{5}	10.36	25308	96.294 UG/L
Sum PCB1260		314140	506.414 UG/L
Average PCB1260			101.283 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G9813.D 8082F.M Mon Nov 20 06:52:49 2000

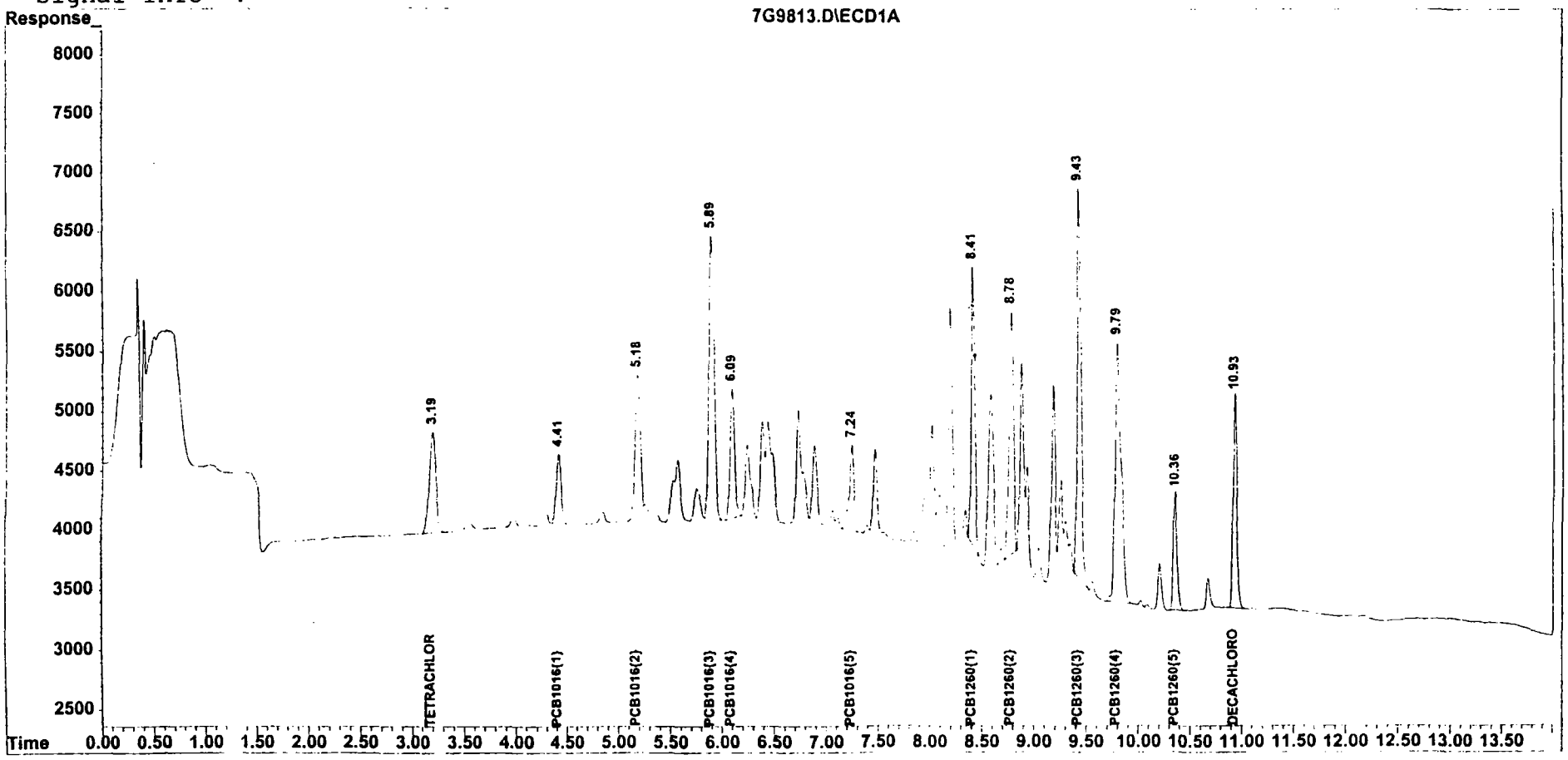
Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9813.D
Acq On : 17 Nov 2000 14:52
Sample : ICV 1660 0.1 PPM S50-23
Misc :
IntFile : EVENTS.E
Quant Time: Nov 20 6:27 2000 Quant Results File: 8082F.RES

Vial: 6
Operator: SMW
Inst : HP7
Multiplier: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:26:10 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9814.D Vial: 7
Acq On : 17 Nov 2000 15:11 Operator: SMW
Sample : ICV 1660 0.05 PPM S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:26 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:26:10 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	22294	2.814 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	14.07%
12) S DECACHLOROBIPHENYL	10.94	27490	3.077 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	15.39%#
Target Compounds			
2) L1 PCB1016{1}	4.41	12845	62.000 UG/L
3) L1 PCB1016{2}	5.18	24986	61.887 UG/L
4) L1 PCB1016{3}	5.89	52814	64.336 UG/L
5) L1 PCB1016{4}	6.09	20708	62.108 UG/L
6) L1 PCB1016{5}	7.24	13625	60.331 UG/L
Sum PCB1016		124977	310.662 UG/L
Average PCB1016			62.132 UG/L
7) L2 PCB1260{1}	8.41	35377	66.451 UG/L
8) L2 PCB1260{2}	8.78	36784	63.278 UG/L
9) L2 PCB1260{3}	9.43	52677	64.884 UG/L
10) L2 PCB1260{4}	9.80	53680	59.306 UG/L
11) L2 PCB1260{5}	10.36	15279	58.134 UG/L
Sum PCB1260		193797	312.053 UG/L
Average PCB1260			62.411 UG/L

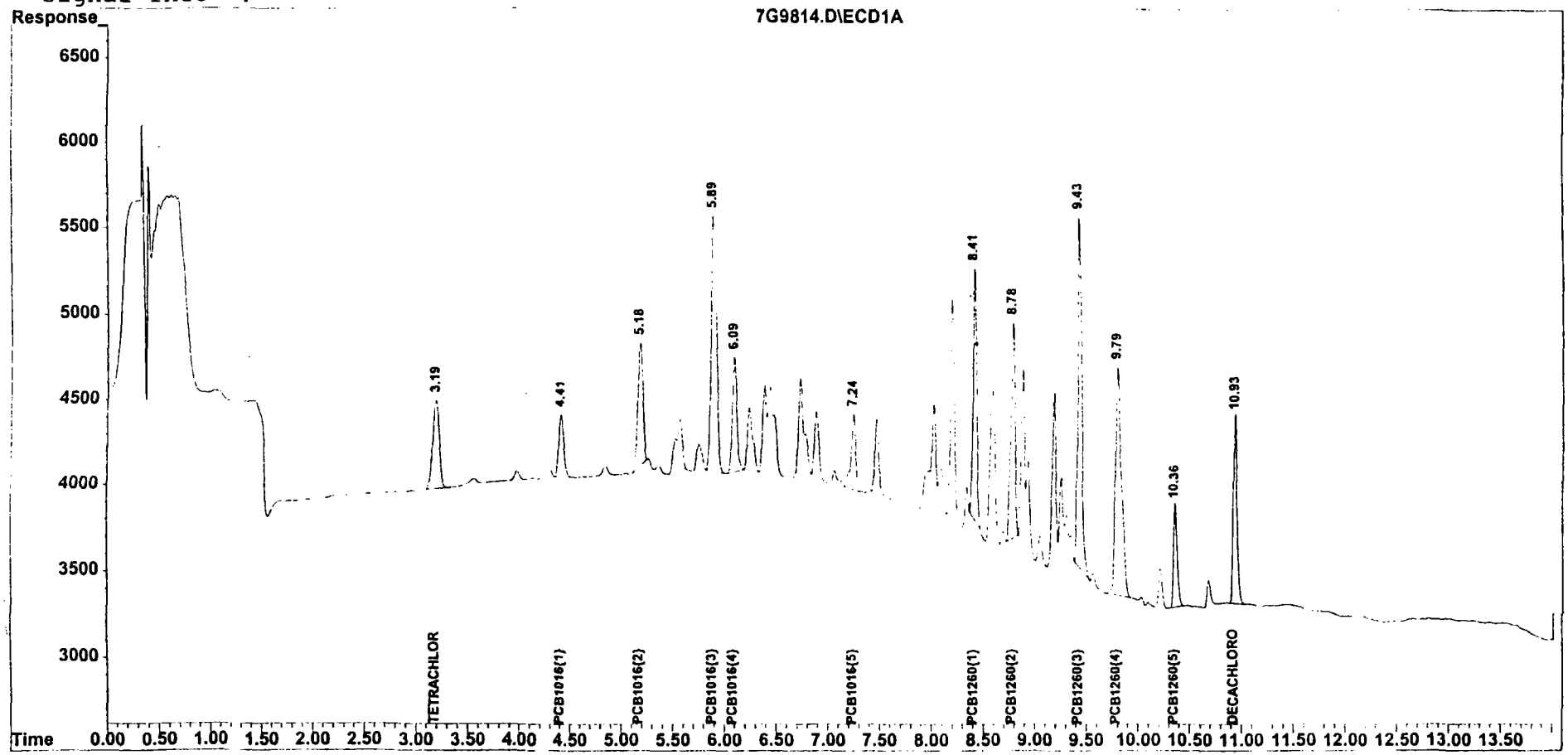
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9814.D 8082F.M Mon Nov 20 06:52:54 2000

Quantitat[illegible] Report

Data File : C:\HPCHEM\1\DATA\111700\7G9814.D Vi[illegible]: 7
Acq On : 17 Nov 2000 15:11 Operat[illegible]: SHW
Sample : ICV 1660 0.05 PPM S50-23 Inst : HP7
Misc : Multip[illegible]: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:26 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:26:10 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111700\7G9815.D Vial: 8
Acq On : 17 Nov 2000 15:29 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1016{1}	500.000	484.298	3.1	102	0.00
3	L1	PCB1016{2}	500.000	472.786	5.4	114	0.00
4	L1	PCB1016{3}	500.000	474.993	5.0	102	0.00
5	L1	PCB1016{4}	500.000	483.408	3.3	102	0.00
6	L1	PCB1016{5}	500.000	551.646	-10.3	114	0.00
7	L2	PCB1260{1}	500.000	559.417	-11.9	103	0.00
8	L2	PCB1260{2}	500.000	531.435	-6.3	111	0.00
9	L2	PCB1260{3}	500.000	457.244	8.6	104	0.00
10	L2	PCB1260{4}	500.000	453.466	9.3	92	0.00
11	L2	PCB1260{5}	500.000	425.434	14.9	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G9815.D 8082F.M Mon Nov 20 08:25:41 2000

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9815.D Vial: 8
Acq On : 17 Nov 2000 15:29 Operator: SMW
Sample : ALT 1660 0.5 PPM S48-12 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:54 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
12) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1016{1}	4.41	100334	484.298 UG/L
3) L1 PCB1016{2}	5.18	178431	472.786 UG/L
4) L1 PCB1016{3}	5.89	389926	474.993 UG/L
5) L1 PCB1016{4}	6.09	161178	483.408 UG/L
6) L1 PCB1016{5}	7.24	124579	551.646 UG/L
Sum PCB1016		954449	2467.130 UG/L
Average PCB1016			493.426 UG/L
7) L2 PCB1260{1}	8.41	256034	559.417 UG/L
8) L2 PCB1260{2}	8.78	308926	531.435 UG/L
9) L2 PCB1260{3}	9.43	371223	457.244 UG/L
10) L2 PCB1260{4}	9.80	410445	453.466 UG/L
11) L2 PCB1260{5}	10.36	111814	425.434 UG/L
Sum PCB1260		1458443	2426.996 UG/L
Average PCB1260			485.399 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

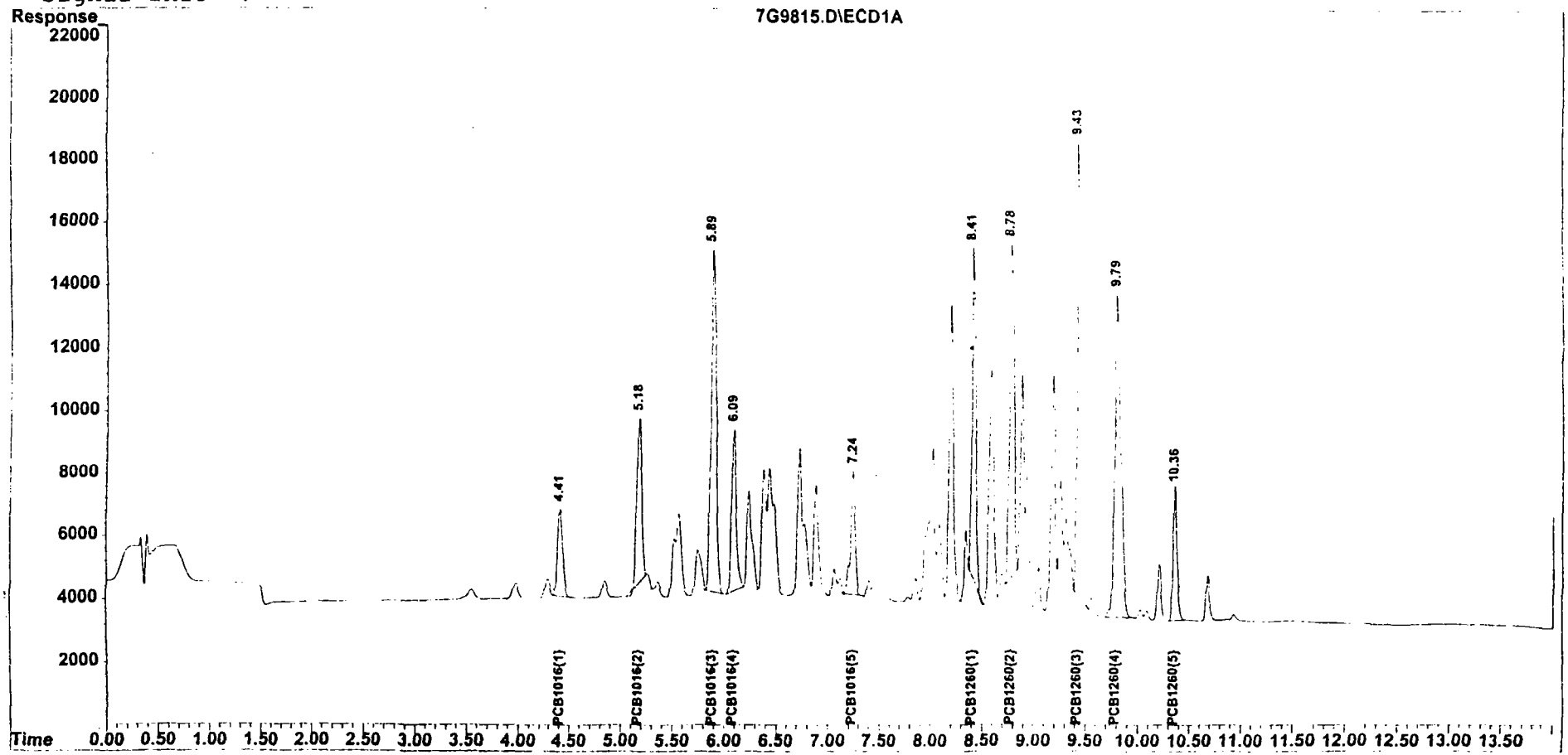
Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700\7G9815.D
Acq On : 17 Nov 2000 15:29
Sample : ALT 1660 0.5 PPM S48-12
Misc :
IntFile : EVENTS.E
Quant Time: Nov 20 6:54 2000 Quant Results File: 8082F.RES

Vial: 8
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



150

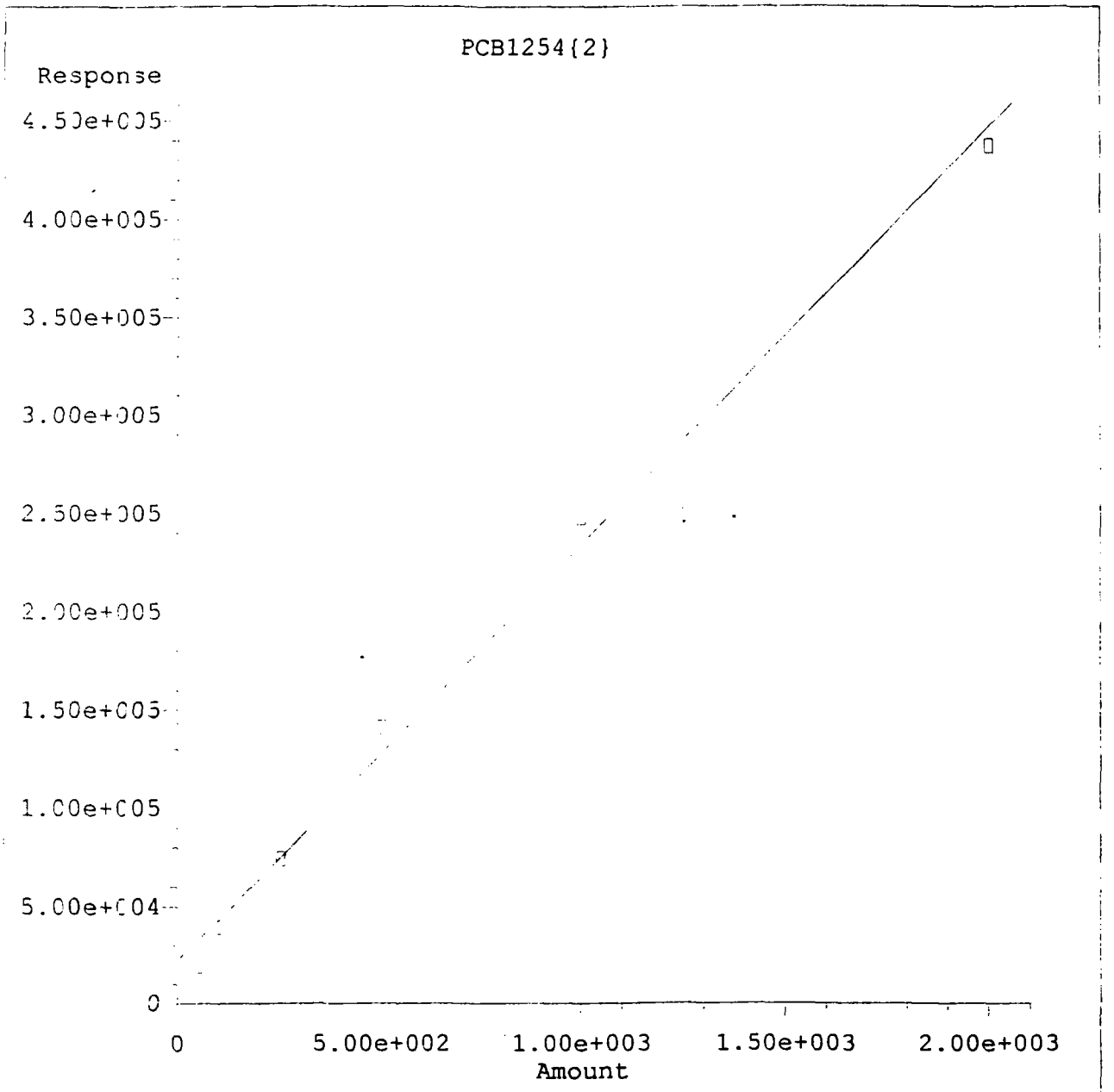
Response Factor Report HP7

Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000

Calibration Files
50 =7G9821.D 100 =7G9820.D 250 =7G9819.D
500 =7G9818.D 1000 =7G9817.D 2000 =7G9816.D

		Compound	50	100	250	500	1000	2000	Avg		%RSD
1)	S	TETRACHLORO-M-XYL	7.523	8.343	6.666	7.039	6.791	6.641	7.167	E3	9.25
2)	L1	PCB1254{1}	3.350	3.720	2.894	2.889	2.621	2.390	2.977	E2	16.30
3)	L1	PCB1254{2}	3.833	3.945	2.975	2.820	2.481	2.186	3.040	E2	23.46
4)	L1	PCB1254{3}	5.408	5.795	4.427	4.356	3.978	3.615	4.596	E2	18.28
5)	L1	PCB1254{4}	5.779	6.531	4.975	4.928	4.567	4.196	5.163	E2	16.51
6)	L1	PCB1254{5}	1.570	1.851	1.434	1.490	1.431	1.360	1.523	E2	11.52
7)	S	DECACHLOROBIPHENYL	8.343	9.421	7.586	7.586	7.109	6.493	7.756	E3	13.13

(#) = Out of Range



Response = 2.12e+002 * Amt + 2.17e+004
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\1254FCG.M
Calibration Table Last Updated: Mon Nov 20 06:56:24 2000

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9816.D Vial: 9
Acq On : 17 Nov 2000 15:48 Operator: SMW
Sample : ICV 1254 2.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	664084	92.656 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery = 463.28%#	
7) S DECACHLOROBIPHENYL	10.93	649333	83.716 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery = 418.58%#	
Target Compounds			
2) L1 PCB1254{1}	6.38	477934	1605.311 UG/L
3) L1 PCB1254{2}	7.46	437104	1954.787 UG/L
4) L1 PCB1254{3}	7.98	722945	1572.848 UG/L
5) L1 PCB1254{4}	8.78	839272	1625.597 UG/L
6) L1 PCB1254{5}	9.16	272066	1786.694 UG/L
Sum PCB1254		2749321	8545.236 UG/L
Average PCB1254			1709.047 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

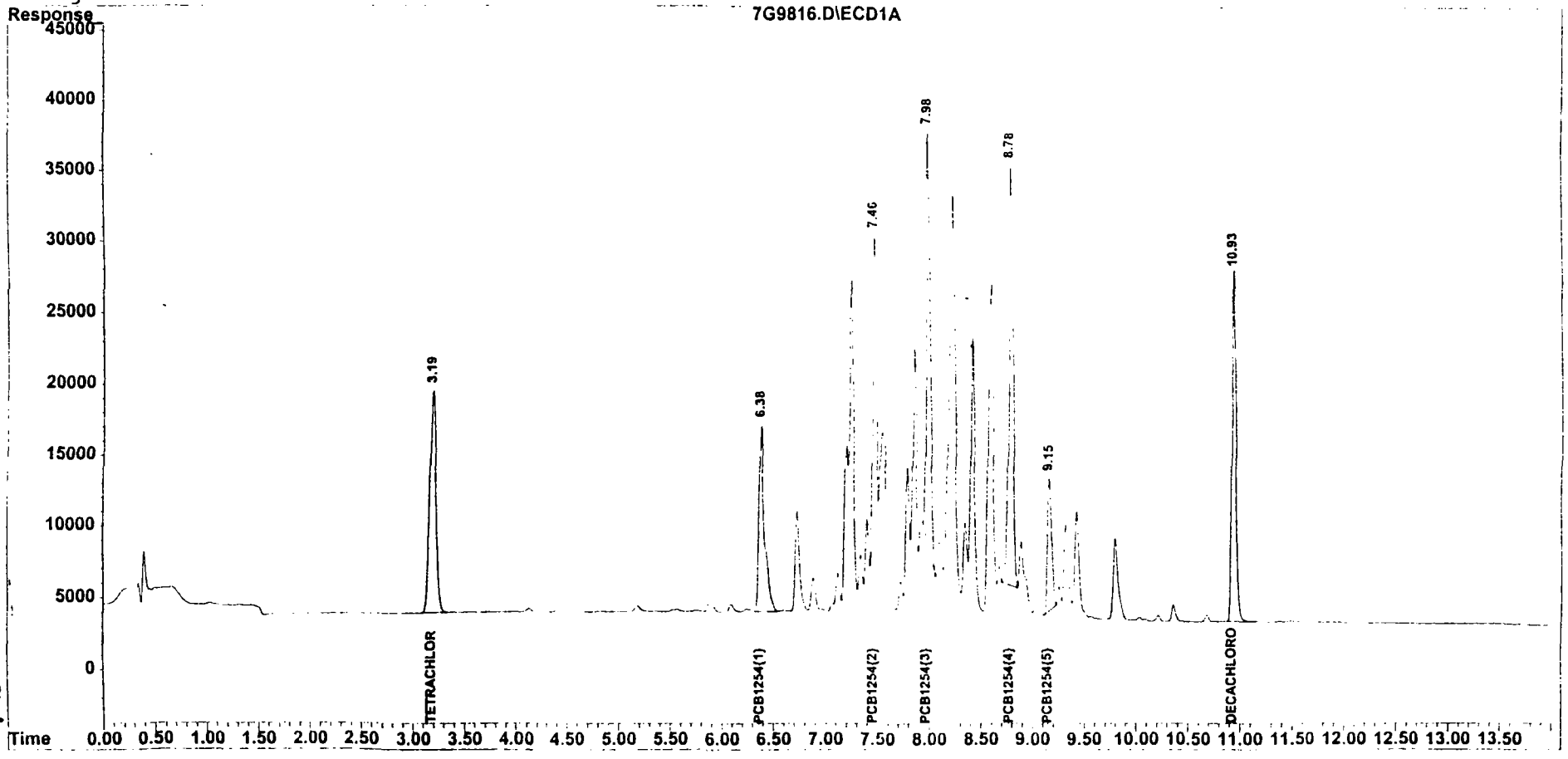
Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9816.D
Acq On : 17 Nov 2000 15:48
Sample : ICV 1254 2.0 PPM S50-02
Misc :
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Vial: 9
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9817.D Vial: 10
Acq On : 17 Nov 2000 16:07 Operator: SMW
Sample : ICV 1254 1.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	339567	47.378 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	236.89%#
7) S DECACHLOROBIPHENYL	10.93	355437	45.825 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	229.13%#
Target Compounds			
2) L1 PCB1254(1)	6.38	262067	880.245 UG/L
3) L1 PCB1254(2)	7.46	248074	1065.154 UG/L
4) L1 PCB1254(3)	7.98	397752	865.354 UG/L
5) L1 PCB1254(4)	8.79	456715	884.616 UG/L
6) L1 PCB1254(5)	9.16	143139	940.012 UG/L
Sum PCB1254		1507746	4635.381 UG/L
Average PCB1254			927.076 UG/L

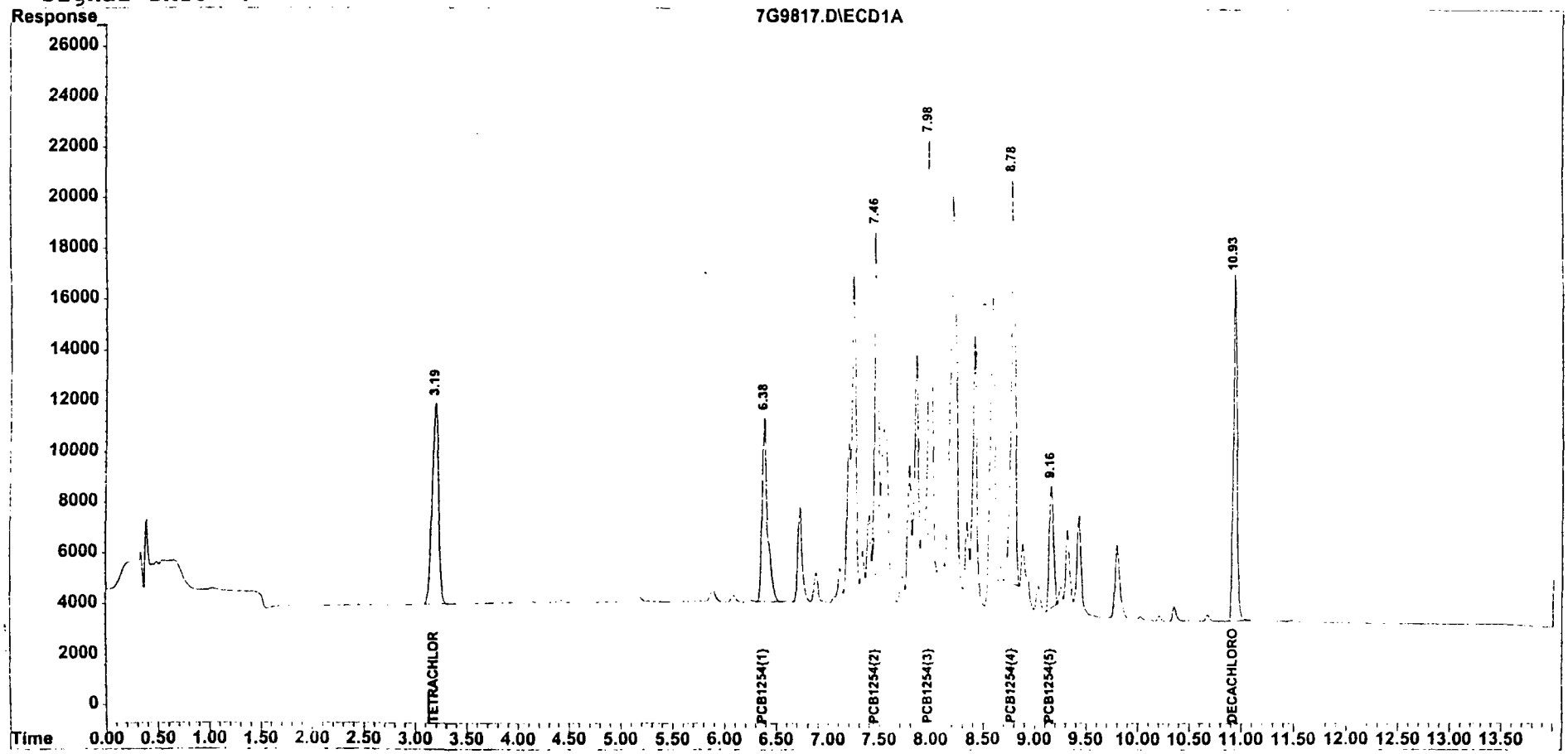
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700\7G9817.D Vial: 10
Acq On : 17 Nov 2000 16:07 Operator: SMW
Sample : ICV 1254 1.0 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9818.D Vial: 11
Acq On : 17 Nov 2000 16:26 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

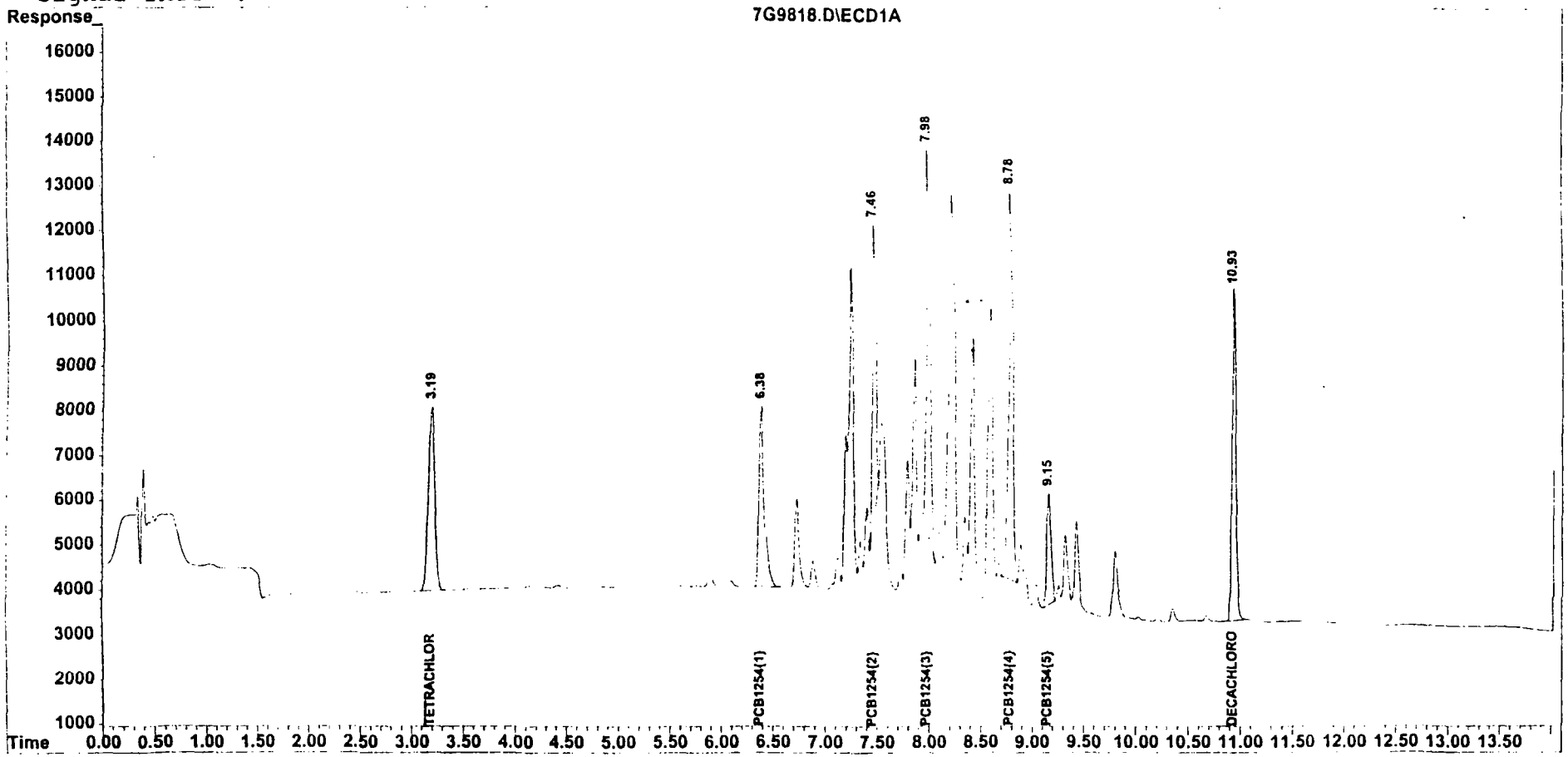
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	175965	24.551 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	122.76%
7) S DECACHLOROBIPHENYL	10.93	189659	24.452 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	122.26%
Target Compounds			
2) L1 PCB1254{1}	6.38	144443	485.164 UG/L
3) L1 PCB1254{2}	7.46	141009	561.274 UG/L
4) L1 PCB1254{3}	7.98	217780	473.804 UG/L
5) L1 PCB1254{4}	8.79	246421	477.296 UG/L
6) L1 PCB1254{5}	9.16	74477	489.098 UG/L
Sum PCB1254		824130	2486.636 UG/L
Average PCB1254			497.327 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700\7G9818.D Vial: 11
Acq On : 17 Nov 2000 16:26 Operator: SMW
Sample : ICV 1254 0.5 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9819.D Vial: 12
Acq On : 17 Nov 2000 16:45 Operator: SMW
Sample : ICV 1254 0.25 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	83326	11.626 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	58.13%
7) S DECACHLOROBIPHENYL	10.93	94820	12.225 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	61.12%
Target Compounds			
2) L1 PCB1254(1)	6.38	72350	243.014 UG/L
3) L1 PCB1254(2)	7.47	74371	247.657 UG/L
4) L1 PCB1254(3)	7.98	110677	240.791 UG/L
5) L1 PCB1254(4)	8.79	124373	240.899 UG/L
6) L1 PCB1254(5)	9.16	35841	235.370 UG/L
Sum PCB1254		417612	1207.730 UG/L
Average PCB1254			241.546 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

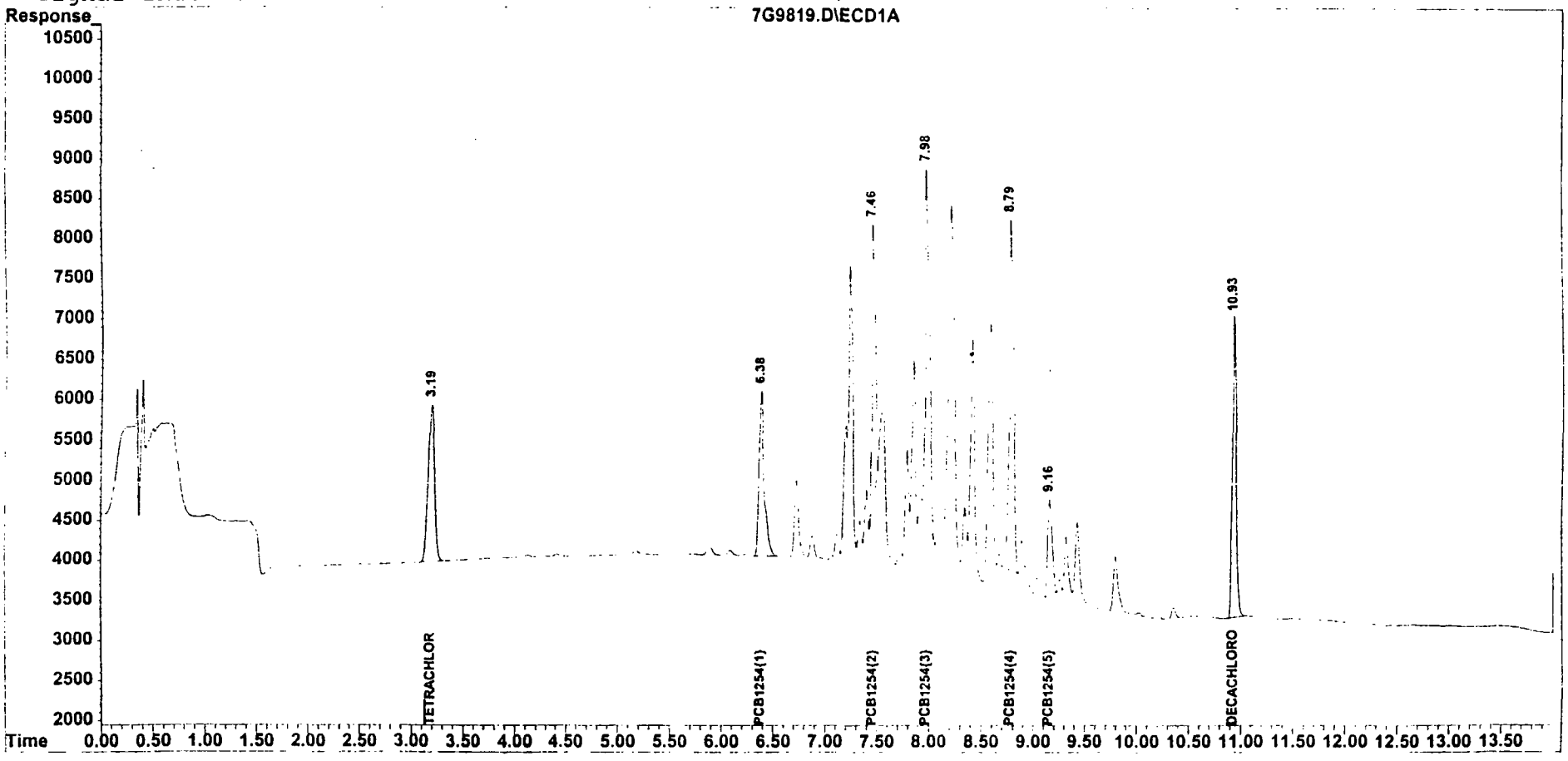
Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700\7G9819.D
Acq On : 17 Nov 2000 16:45
Sample : ICV 1254 0.25 PPM S50 02
Misc :
IntFile : EVENTS.E
Quant Time: Nov 20 6:59 2000 Quant Results File: 1254FCG.RES

Vial: 12
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9820.D Vial: 13
Acq On : 17 Nov 2000 17:03 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:57 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:56:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

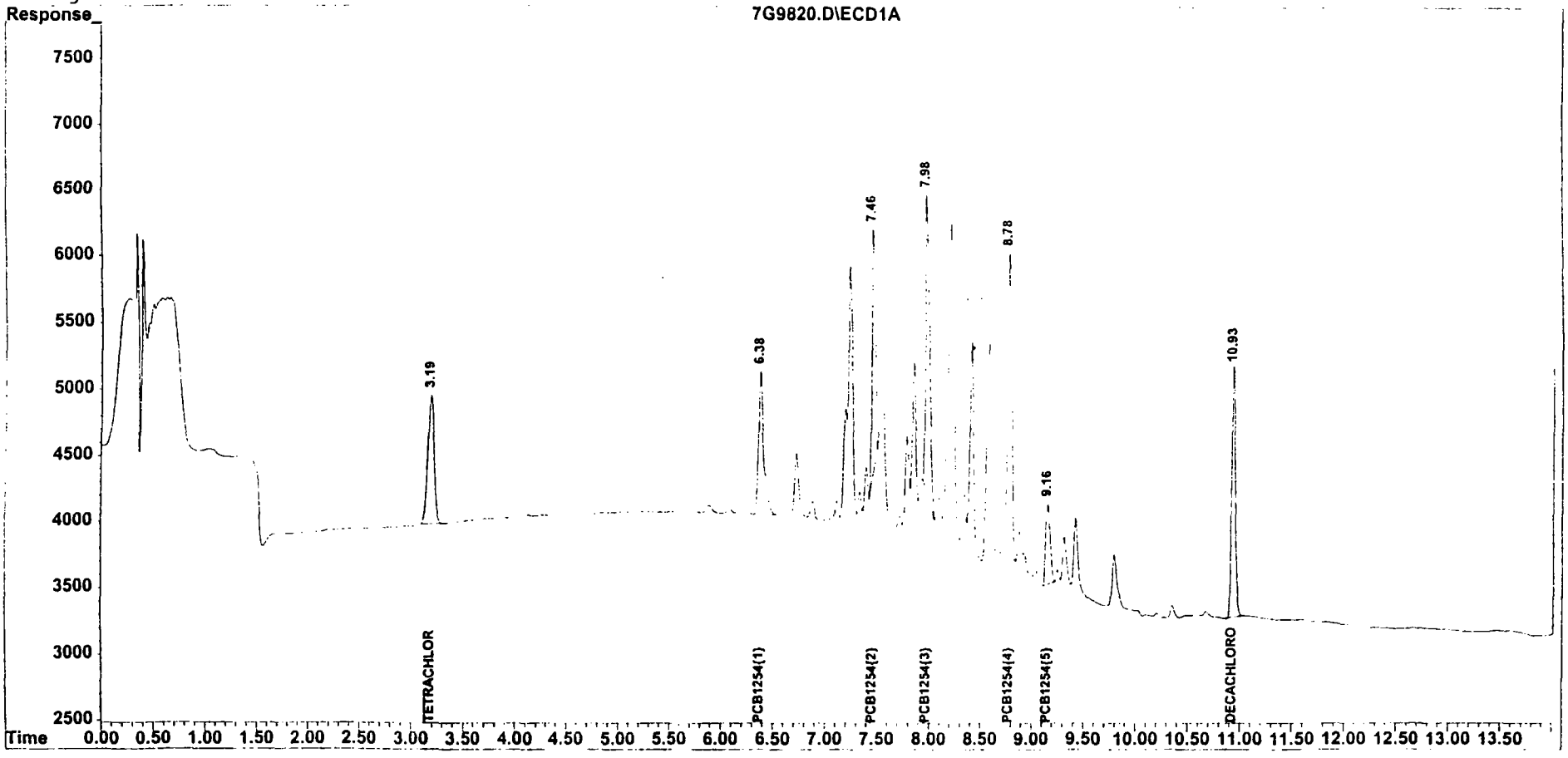
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	41717	5.821 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	29.11%
7) S DECACHLOROBIPHENYL	10.93	47104	6.073 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	30.37%#
Target Compounds			
2) L1 PCB1254{1}	6.38	37203	124.961 UG/L
3) L1 PCB1254{2}	7.46	39447	129.381 UG/L
4) L1 PCB1254{3}	7.98	57951	121.390 UG/L
5) L1 PCB1254{4}	8.79	65312	126.503 UG/L
6) L1 PCB1254{5}	9.16	18513	121.578 UG/L
Sum PCB1254		218427	623.813 UG/L
Average PCB1254			124.763 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G9820.D 1254FCG.M Mon Nov 20 06:58:35 2000

Data File : C:\HPCHEM\1\DATA\111700\7G9820.D Vial: 13
Acq On : 17 Nov 2000 17:03 Operator: SMW
Sample : ICV 1254 0.1 PPM S50-02 Inst : HP7
Misc : Multipl: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:57 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:56:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9821.D Vial: 14
Acq On : 17 Nov 2000 17:22 Operator: SMW
Sample : ICV 1254 0.05 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:56 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:56:24 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

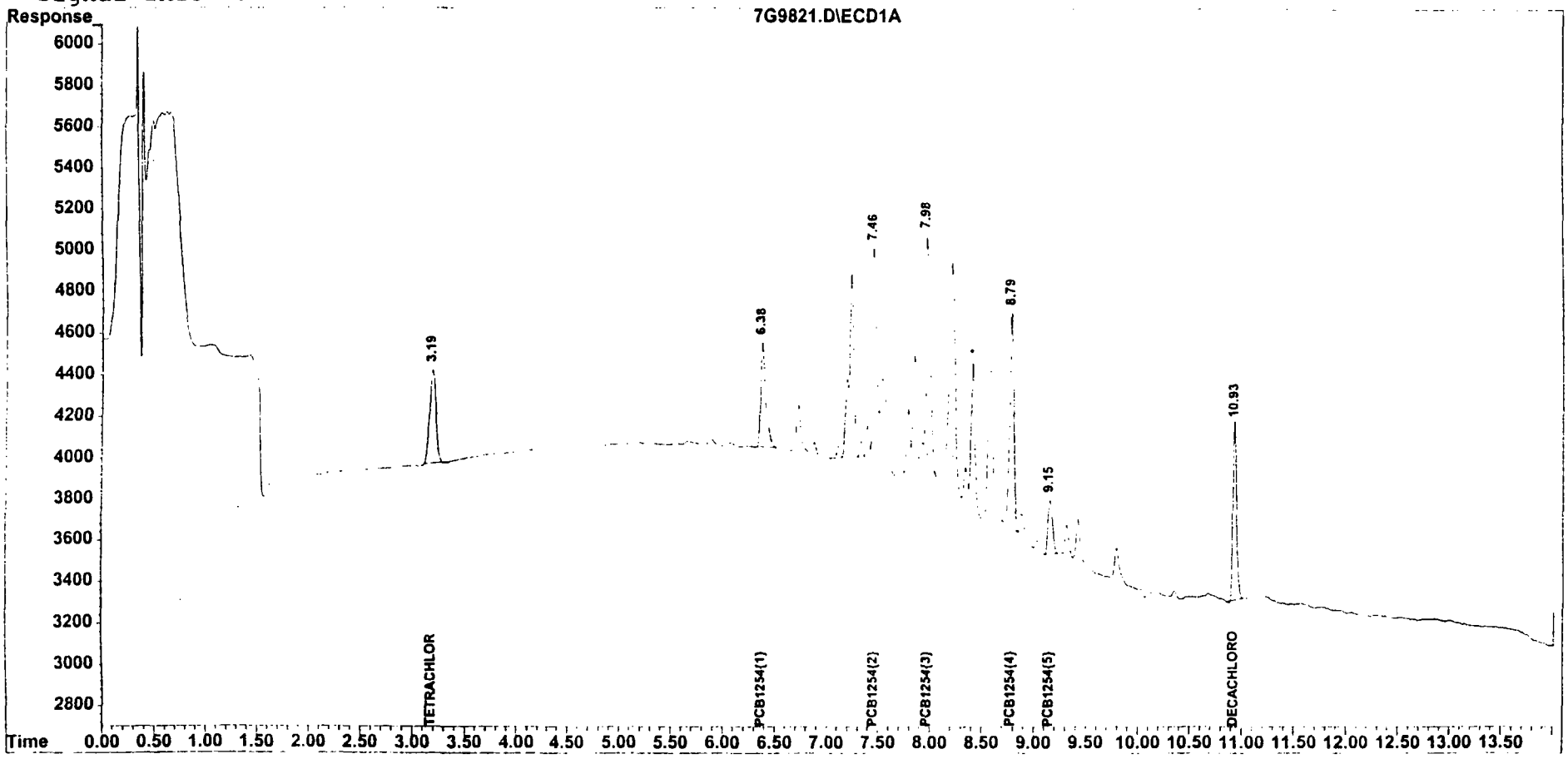
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	18808	2.624 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	13.12%#
7) S DECACHLOROBIPHENYL	10.94	20859	2.689 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	13.45%#
Target Compounds			
2) L1 PCB1254(1)	6.38	16748	56.255 UG/L
3) L1 PCB1254(2)	7.46	19164	62.651 UG/L
4) L1 PCB1254(3)	7.98	27042	54.782 UG/L
5) L1 PCB1254(4)	8.79	28896	55.968 UG/L
6) L1 PCB1254(5)	9.16	7851	51.559 UG/L
Sum PCB1254		99701	281.216 UG/L
Average PCB1254			56.243 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700\7G9821.D Vial: 14
Acq On : 17 Nov 2000 17:22 Operator: SMW
Sample : ICV 1254 0.05 PPM S50-02 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 6:56 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/15/00
Last Update : Mon Nov 20 06:56:24 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111700\7G9822.D Vial: 15
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	24.679	1.3	101	0.00
2	L1	PCB1254{1}	500.000	533.210	-6.6	110	0.00
3	L1	PCB1254{2}	500.000	543.993	-8.8	97	0.00
4	L1	PCB1254{3}	500.000	475.338	4.9	100	0.00
5	L1	PCB1254{4}	500.000	464.897	7.0	97	0.00
6	L1	PCB1254{5}	500.000	453.880	9.2	93	0.00
7	S	DECACHLORCBIPHENYL	25.000	24.827	0.7	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G9822.D 1254FCG.M Mon Nov 20 07:00:56 2000

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9822.D Vial: 15
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 7:00 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

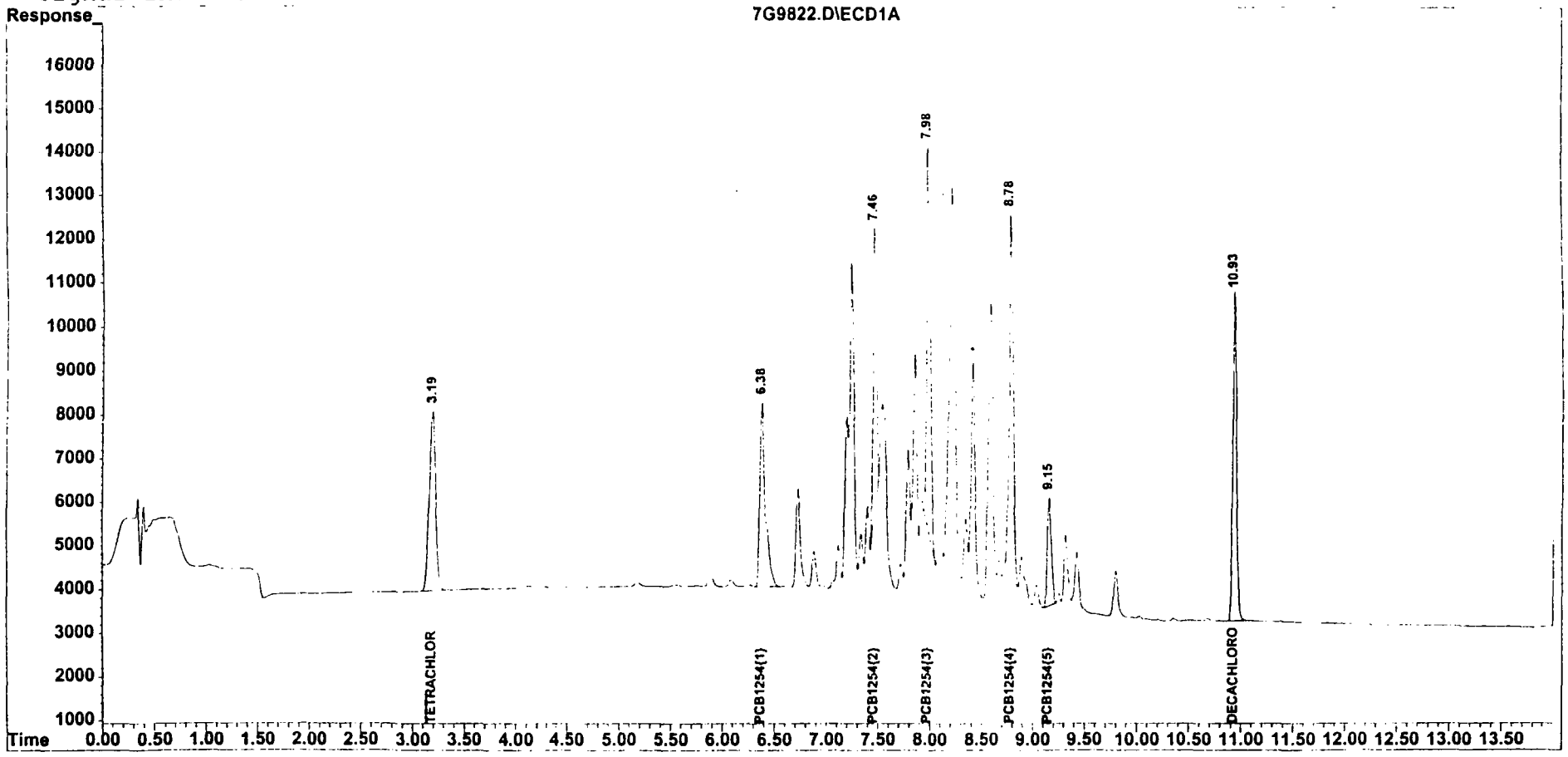
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	176881	24.679 UG/L
Spiked Amount 20.000 Range 27 - 132		Recovery =	123.40%
7) S DECACHLOROBIPHENYL	10.93	192569	24.827 UG/L
Spiked Amount 20.000 Range 50 - 150		Recovery =	124.14%
Target Compounds			
2) L1 PCB1254{1}	6.38	158748	533.210 UG/L
3) L1 PCB1254{2}	7.46	137337	543.993 UG/L
4) L1 PCB1254{3}	7.98	218485	475.338 UG/L
5) L1 PCB1254{4}	8.79	240020	464.897 UG/L
6) L1 PCB1254{5}	9.15	69114	453.880 UG/L
Sum PCB1254		823703	2471.318 UG/L
Average PCB1254			494.264 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700\7G9822.D Vial: 15
Acq On : 17 Nov 2000 17:41 Operator: SMW
Sample : ALT 1254 0.5 PPM S47-47 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 7:00 2000 Quant Results File: 1254FCG.RES

Quant Method : C:\HPCHEM\1\METHODS\1254FCG.M (Chemstation Integrator)
Title : AR 1254 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:58:09 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9823.D Vial: 16
Acq On : 17 Nov 2000 18:00 Operator: SMW
Sample : ICV 1221 0.5 PPM S49-04 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:16 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	210891	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.93	216980	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1221{1}	2.04	57907	500.000 UG/L
3) L1 PCB1221{2}	3.55	25812	500.000 UG/L
4) L1 PCB1221{3}	3.98	52962	500.000 UG/L
5) L1 PCB1221{4}	4.29	33718	500.000 UG/L
6) L1 PCB1221{5}	4.41	130288	500.000 UG/L
Sum PCB1221		300686	2500.000 UG/L
Average PCB1221			500.000 UG/L

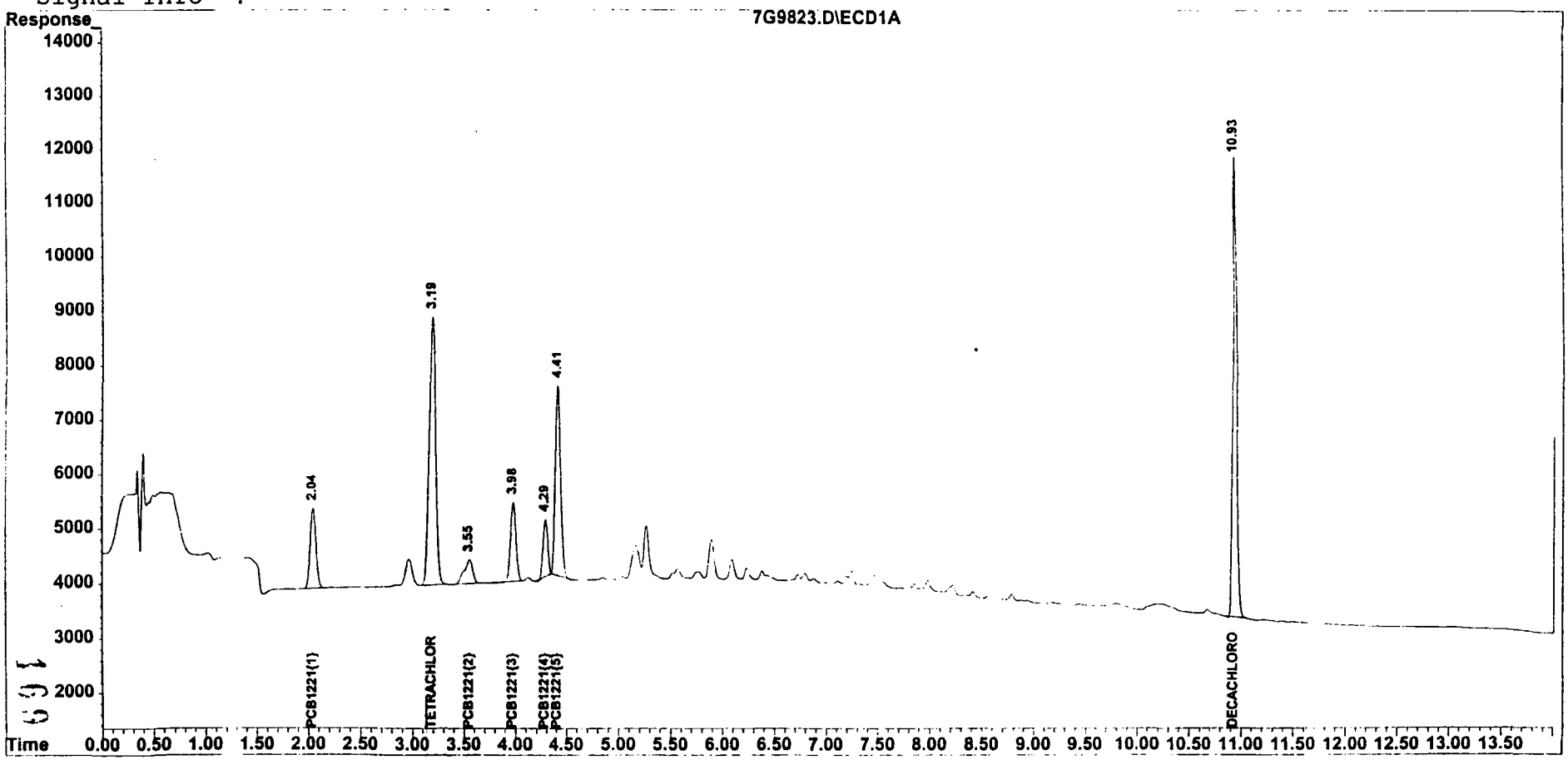
(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700\7G9823.D
Acq On : 17 Nov 2000 18:00
Sample : ICV 1221 0.5 PPM S49-04
Misc :
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:16 2000 Quant Results File: 1221SF.RES

Vial: 16
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9824.D Vial: 17
Acq On : 17 Nov 2000 18:19 Operator: SMW
Sample : ICV 1232 0.5 PPM S49-31 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:17 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	205555	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	125.00%
7) S DECACHLOROBIPHENYL	10.93	225539	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	125.00%
Target Compounds			
2) I1 PCB1232{1}	2.04	35859	500.000 UG/L
3) I1 PCB1232{2}	3.55	18474	500.000 UG/L
4) I1 PCB1232{3}	3.98	31332	500.000 UG/L
5) I1 PCB1232{4}	4.41	97402	500.000 UG/L
6) I1 PCB1232{5}	5.18	75360	500.000 UG/L
Sum PCB1232		258427	2500.000 UG/L
Average PCB1232			500.000 UG/L

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(f)=RT Delta > 1/2 Window (m)=manual int.

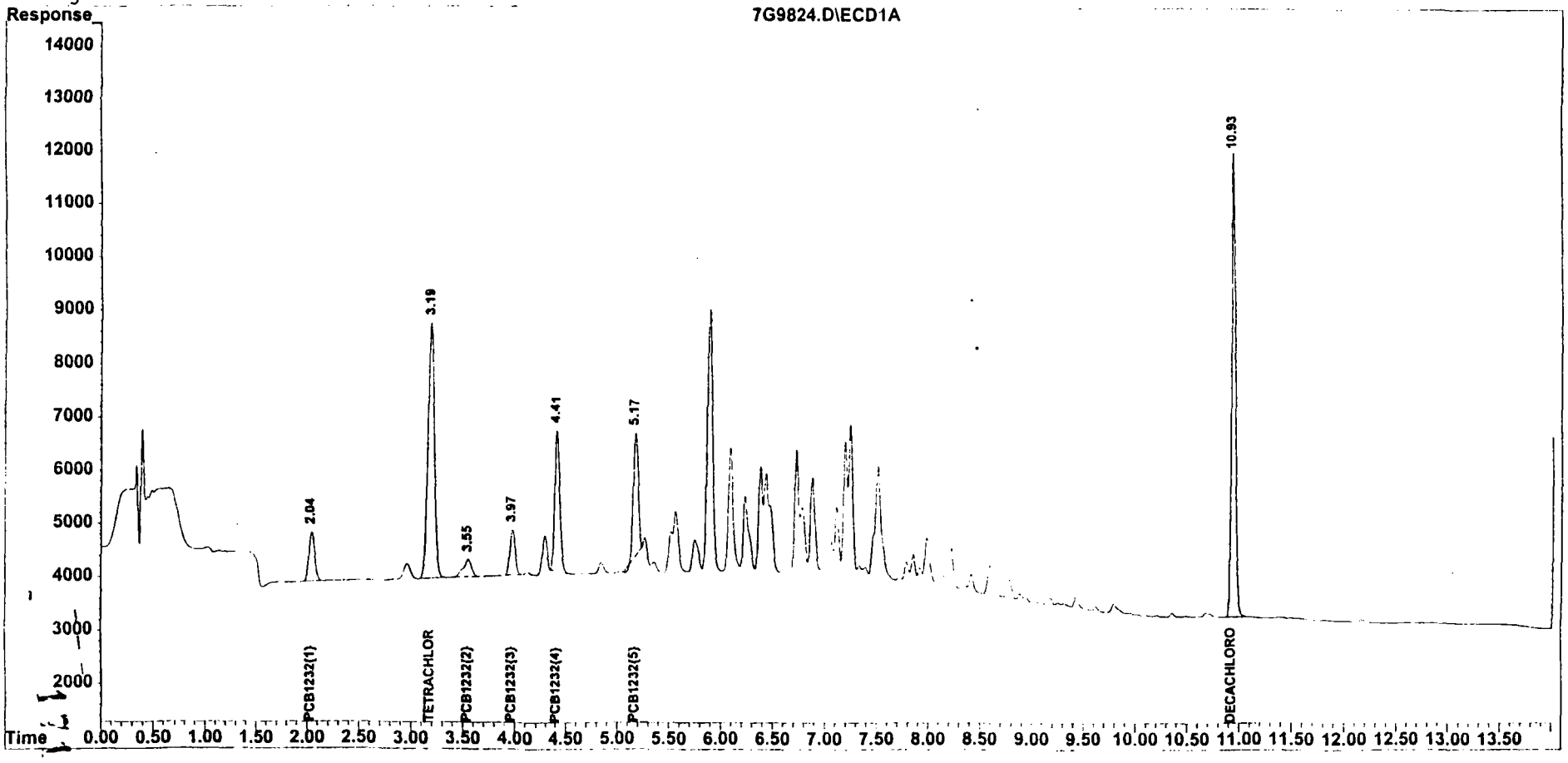
Quantitati Report

Data File : C:\HPCHEM\1\DATA\111700\7G9824.D
Acq On : 17 Nov 2000 18:19
Sample : ICV 1232 0.5 PPM S49-31
Misc :
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:17 2000 Quant Results File: 1232SF.RES

Vial: 17
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9825.D Vial: 18
Acq On : 17 Nov 2000 18:37 Operator: SMW
Sample : ICV 1242 0.5 PPM S49-50 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:18 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	194739	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
7) S DECACHLOROBIPHENYL	10.93	213163	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1242{1}	4.41	83411	500.000 UG/L
3) L1 PCB1242{2}	5.18	141510	500.000 UG/L
4) L1 PCB1242{3}	5.89	306959	500.000 UG/L
5) L1 PCB1242{4}	6.09	125926	500.000 UG/L
6) L1 PCB1242{5}	6.88	83129	500.000 UG/L
Sum PCB1242		740935	2500.000 UG/L
Average PCB1242			500.000 UG/L

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(f)=RT Delta > 1/2 Window (m)=manual int.

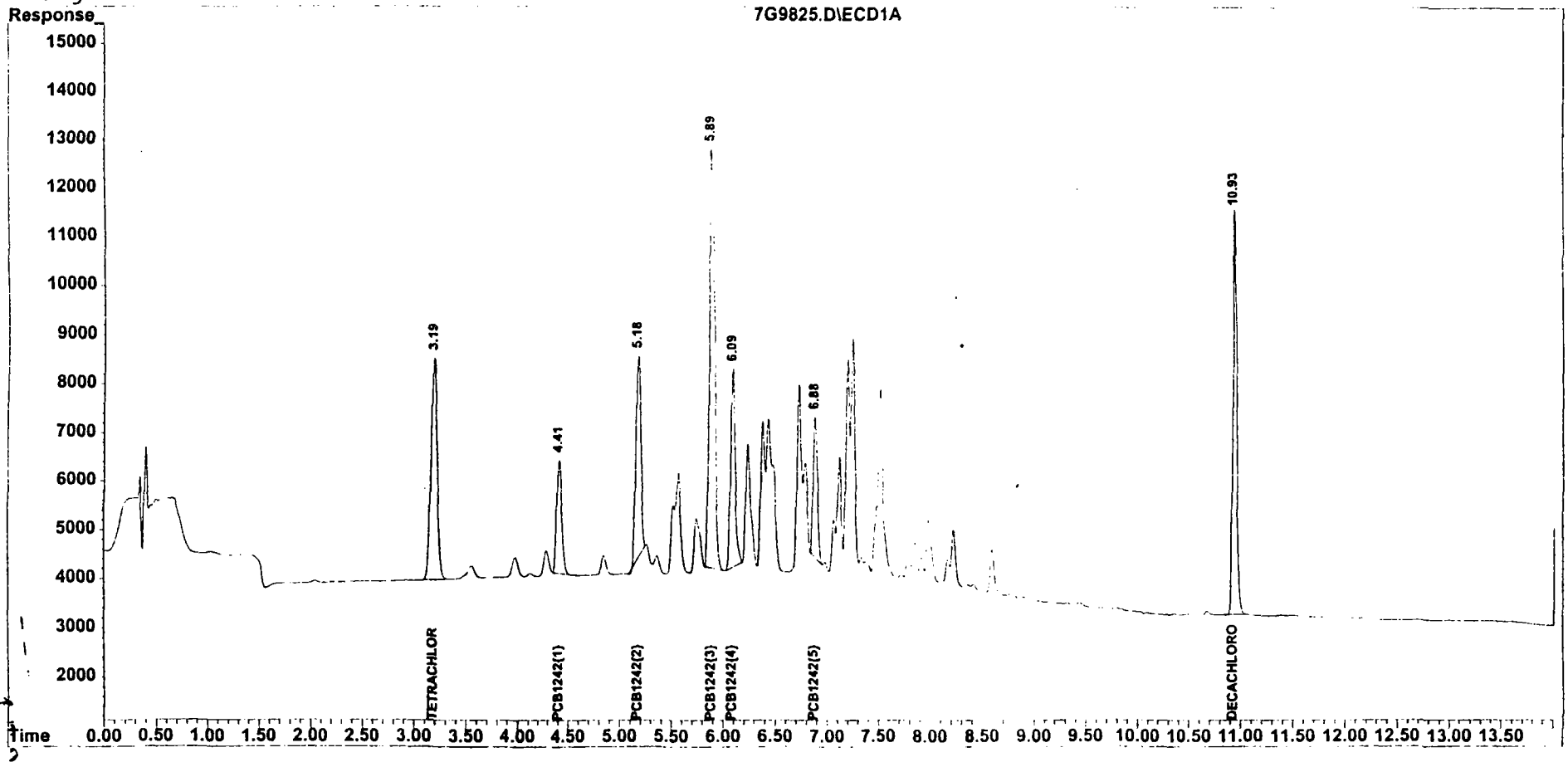
Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9825.D
Acq On : 17 Nov 2000 18:37
Sample : ICV 1242 0.5 PPM S49-50
Misc :
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:18 2000 Quant Results File: 1242SF.RES

Vial: 18
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9826.D Vial: 19
Acq On : 17 Nov 2000 18:56 Operator: SMW
Sample : ICV 1248 0.5 PPM S50-01 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:19 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	192093	25.000 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 125.00%	
2) S DECACHLOROBIPHENYL	10.93	209049	25.000 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 125.00%	
Target Compounds			
2) L1 PCB1248{1}	5.89	260278	500.000 UG/L
3) L1 PCB1248{2}	6.88	137950	500.000 UG/L
4) L1 PCB1248{3}	7.24	88409	500.000 UG/L
5) L1 PCB1248{4}	7.51	273311	500.000 UG/L
6) L1 PCB1248{5}	8.22	39939	500.000 UG/L
Sum PCB1248		799888	2500.000 UG/L
Average PCB1248			500.000 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

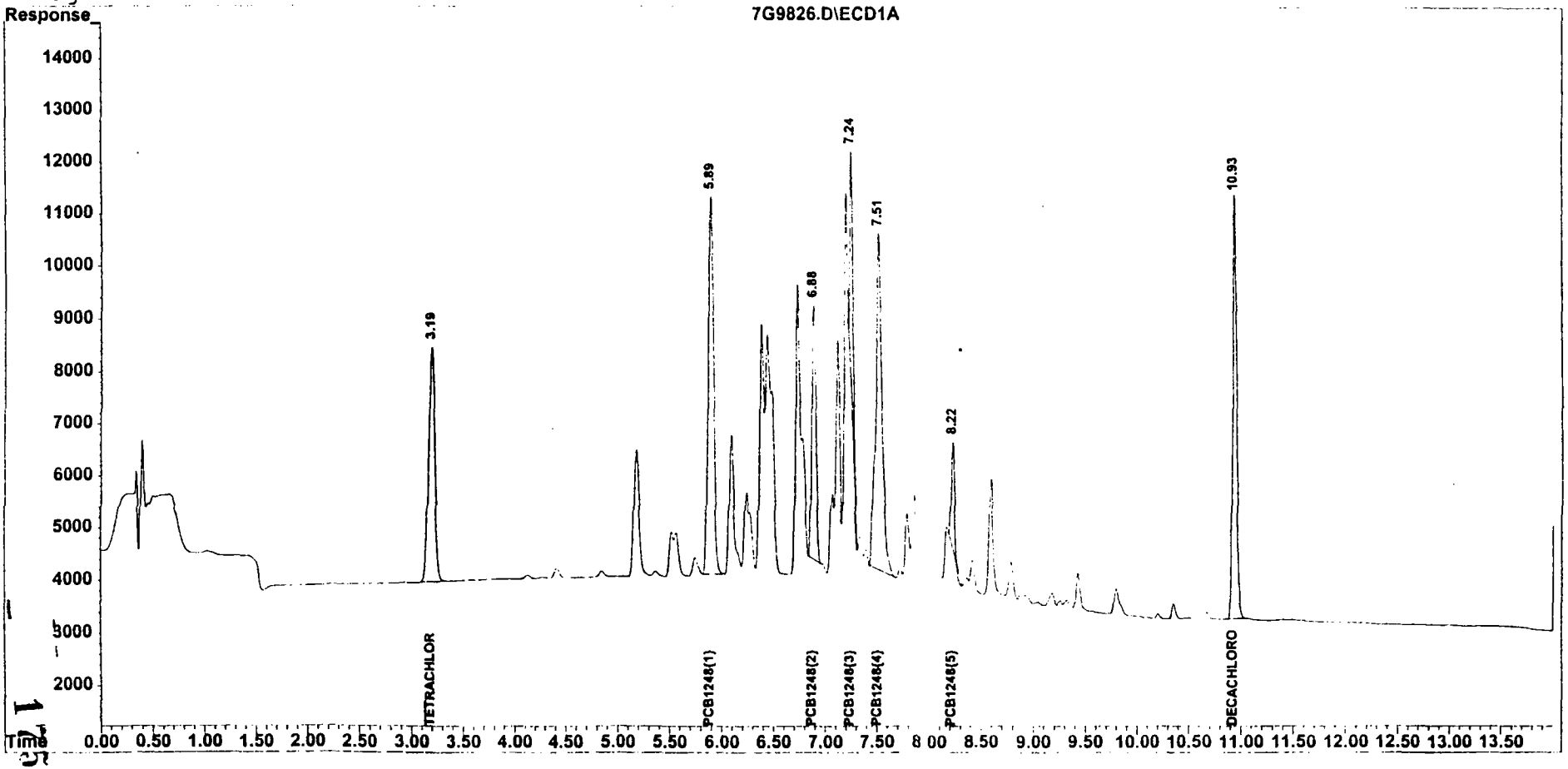
Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9826.D
Acq On : 17 Nov 2000 18:56
Sample : ICV 1248 0.5 PPM S50-01
Misc :
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:19 2000 Quant Results File: 1248SF.RES

Vial: 19
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111700\7G9827.D Vial: 20
Acq On : 17 Nov 2000 19:15 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1 PCB1221(1)	500.000	538.660	-7.7	108	0.00
3	L1 PCB1221(2)	500.000	546.697	-9.3	109	0.00
4	L1 PCB1221(3)	500.000	556.959	-11.4	111	0.00
5	L1 PCB1221(4)	500.000	542.865	-8.6	109	0.00
6	L1 PCB1221(5)	500.000	534.554	-6.9	107	0.00

Data File : C:\HPCHEM\1\DATA\111700\7G9827.D Vial: 20
Acq On : 17 Nov 2000 19:15 Operator: SMW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:16 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

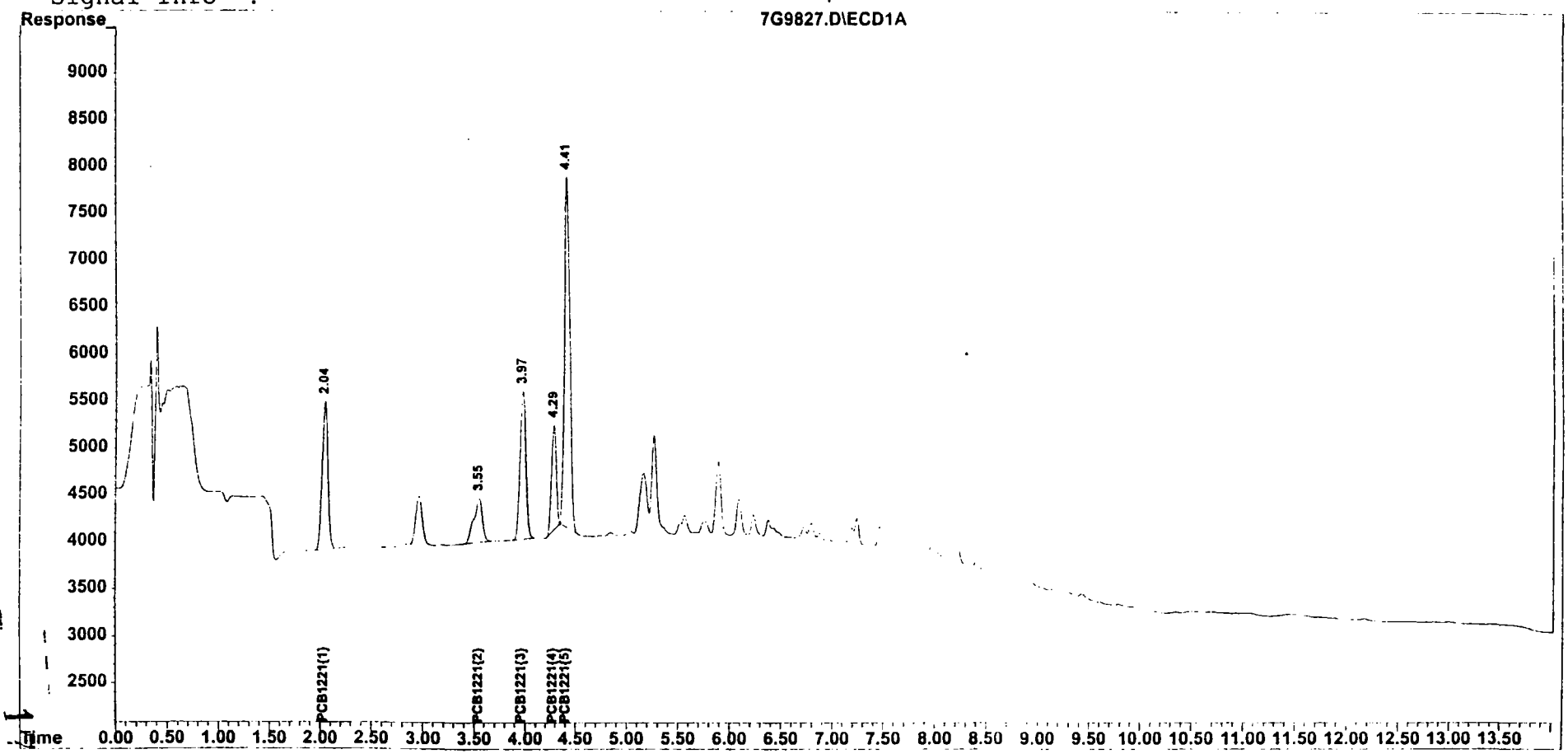
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1221{1}	2.04	62384	538.660 UG/L
3) L1 PCB1221{2}	3.55	28222	546.697 UG/L
4) L1 PCB1221{3}	3.98	58995	556.959 UG/L
5) L1 PCB1221{4}	4.29	36609	542.865 UG/L
6) L1 PCB1221{5}	4.41	139291	534.554 UG/L
Sum PCB1221		325502	2719.735 UG/L
Average PCB1221			543.947 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.
7G9827.D 1221SF.M Mon Nov 20 07:16:40 2000 Page 1

Data File : C:\HPCHEM\1\DATA\111700.7G9827.D Vial: 0
Acq On : 17 Nov 2000 19:15 Operator: [illegible]HW
Sample : ALT 1221 0.5 PPM S50-02A Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:16 2000 Quant Results File: 1221SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1221SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 11:13:14 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700\7G9828.D Vial: 21
Acq On : 17 Nov 2000 19:34 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1232{1}	500.000	464.530	7.1	93	0.00
3	L1	PCB1232{2}	500.000	569.768	-14.0	114	0.00
4	L1	PCB1232{3}	500.000	595.073	-19.0#	119	0.00
5	L1	PCB1232{4}	500.000	568.464	-13.7	114	0.00
6	L1	PCB1232{5}	500.000	473.674	5.3	95	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9828.D Vial: 21
Acq On : 17 Nov 2000 19:34 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:17 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Infc :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1232{1}	2.04	33315	464.530 UG/L
3) L1 PCB1232{2}	3.55	21051	569.768 UG/L
4) L1 PCB1232{3}	3.98	37289	595.073 UG/L
5) L1 PCB1232{4}	4.41	110739	568.464 UG/L
6) L1 PCB1232{5}	5.18	71393	473.674 UG/L
Sum PCB1232		273788	2671.509 UG/L
Average PCB1232			534.302 UG/L

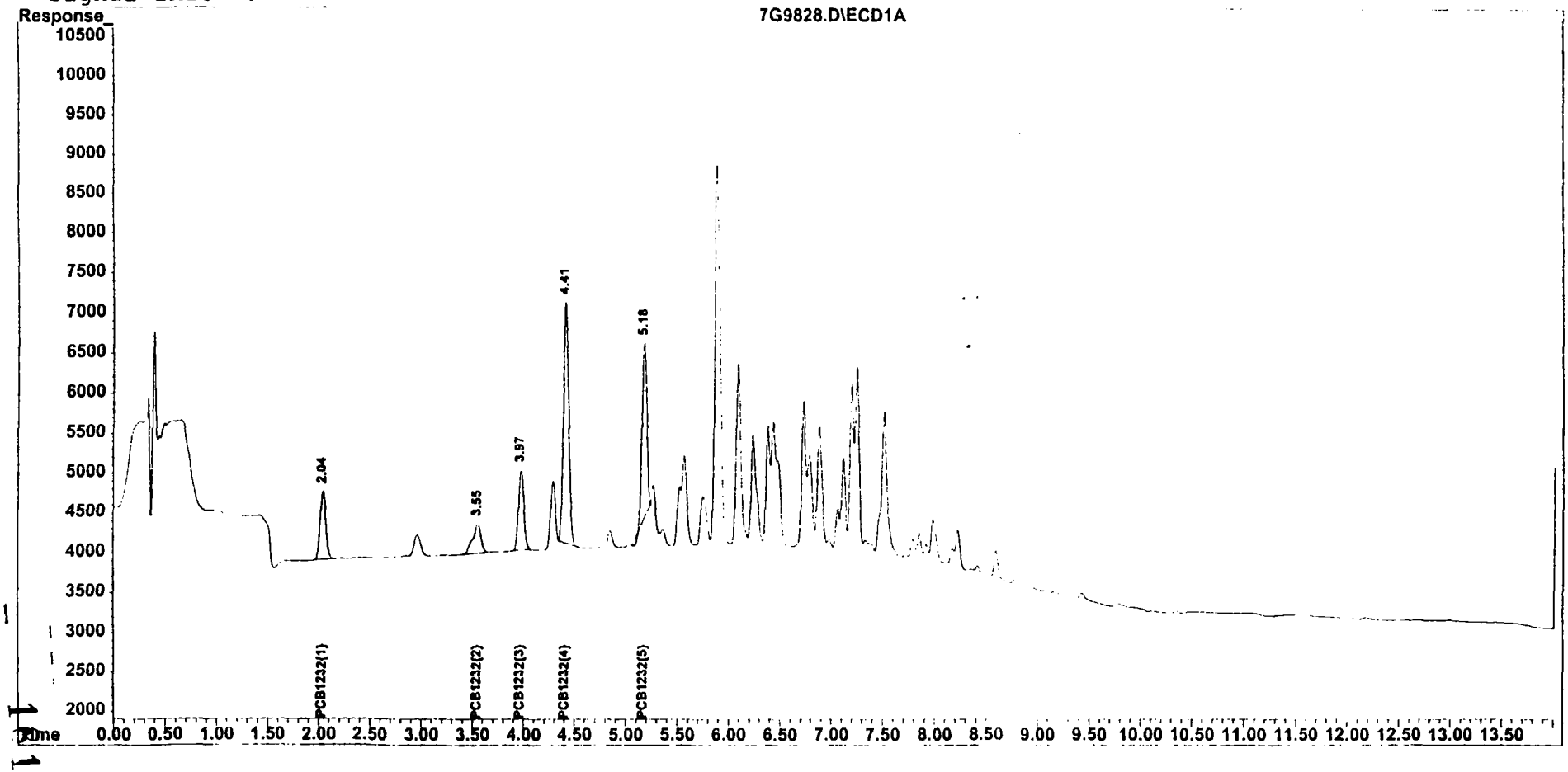
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700\7G9828.D Vial: 21
Acq On : 17 Nov 2000 19:34 Operator: SMW
Sample : ALT 1232 0.5 PPM S49-32 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:17 2000 Quant Results File: 1232SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1232SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:29:22 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111700\7G9829.D Vial: 22
Acq On : 17 Nov 2000 19:53 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2 L1	PCB1242{1}	500.000	505.150	-1.0	101	0.00
3 L1	PCB1242{2}	500.000	461.488	7.7	92	0.00
4 L1	PCB1242{3}	500.000	469.033	6.2	94	0.00
5 L1	PCB1242{4}	500.000	469.700	6.1	94	0.00
6 L1	PCB1242{5}	500.000	465.365	6.9	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G9829.D 1242SF.M Mon Nov 20 07:18:57 2000

Data File : C:\HPCHEM\1\DATA\111700\7G9829.D Vial: 22
Acq On : 17 Nov 2000 19:53 Operator: SMW
Sample : ALT 1242 0.5 PPM S47-48 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:18 2000 Quant Results File: 1242SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1242{1}	4.41	84270	505.150 UG/L
3) L1 PCB1242{2}	5.18	130610	461.488 UG/L
4) L1 PCB1242{3}	5.89	287948	469.033 UG/L
5) L1 PCB1242{4}	6.09	118295	469.700 UG/L
6) L1 PCB1242{5}	6.88	77371	465.365 UG/L
Sum PCB1242		698493	2370.736 UG/L
Average PCB1242			474.147 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

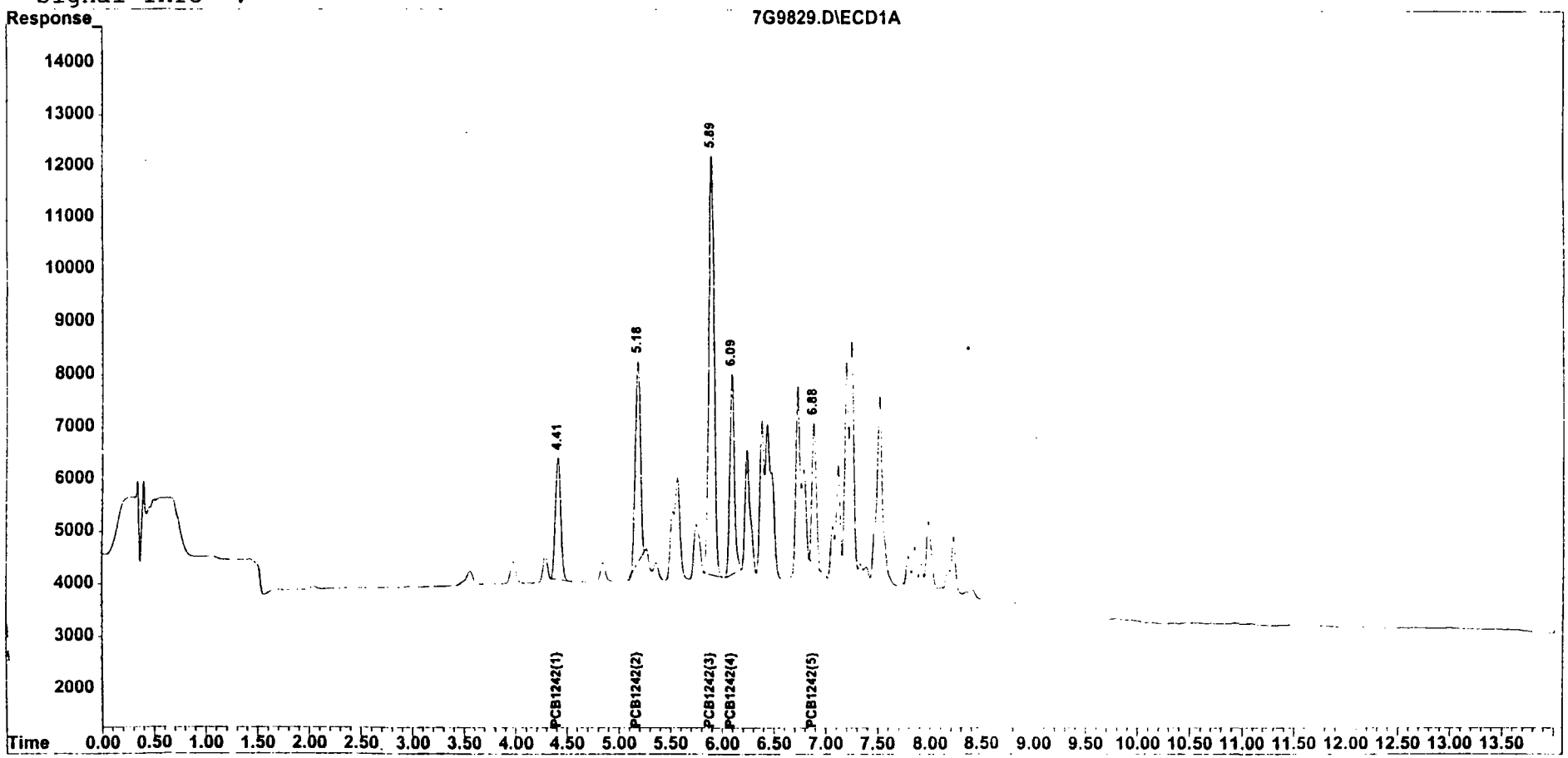
Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9829.D
Acq On : 17 Nov 2000 19:53
Sample : ALT 1242 0.5 PPM S47-48
Misc :
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:18 2000 Quant Results File: 1242SF.RES

Vial: 12
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\1242SF.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:31:52 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111700\7G9830.D Vial: 23
Acq On : 17 Nov 2000 20:11 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	L1	PCB1248{1}	500.000	384.896	23.0#	77	0.00
3	L1	PCB1248{2}	500.000	492.101	1.6	98	0.00
4	L1	PCB1248{3}	500.000	491.131	1.8	98	0.00
5	L1	PCB1248{4}	500.000	516.661	-3.3	103	0.00
6	L1	PCB1248{5}	500.000	575.127	-15.0#	115	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700\7G9830.D Vial: 23
Acq On : 17 Nov 2000 20:11 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:19 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	0.00%#
7) S DECACHLOROBIPHENYL	0.00	0	N.D. UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	0.00%#
Target Compounds			
2) L1 PCB1248(1)	5.89	200360	384.896 UG/L
3) L1 PCB1248(2)	6.88	135770	492.101 UG/L
4) L1 PCB1248(3)	7.24	86841	491.131 UG/L
5) L1 PCB1248(4)	7.51	282419	516.661 UG/L
6) L1 PCB1248(5)	8.22	45940	575.127 UG/L
Sum PCB1248		751330	2459.915 UG/L
Average PCB1248			491.983 UG/L

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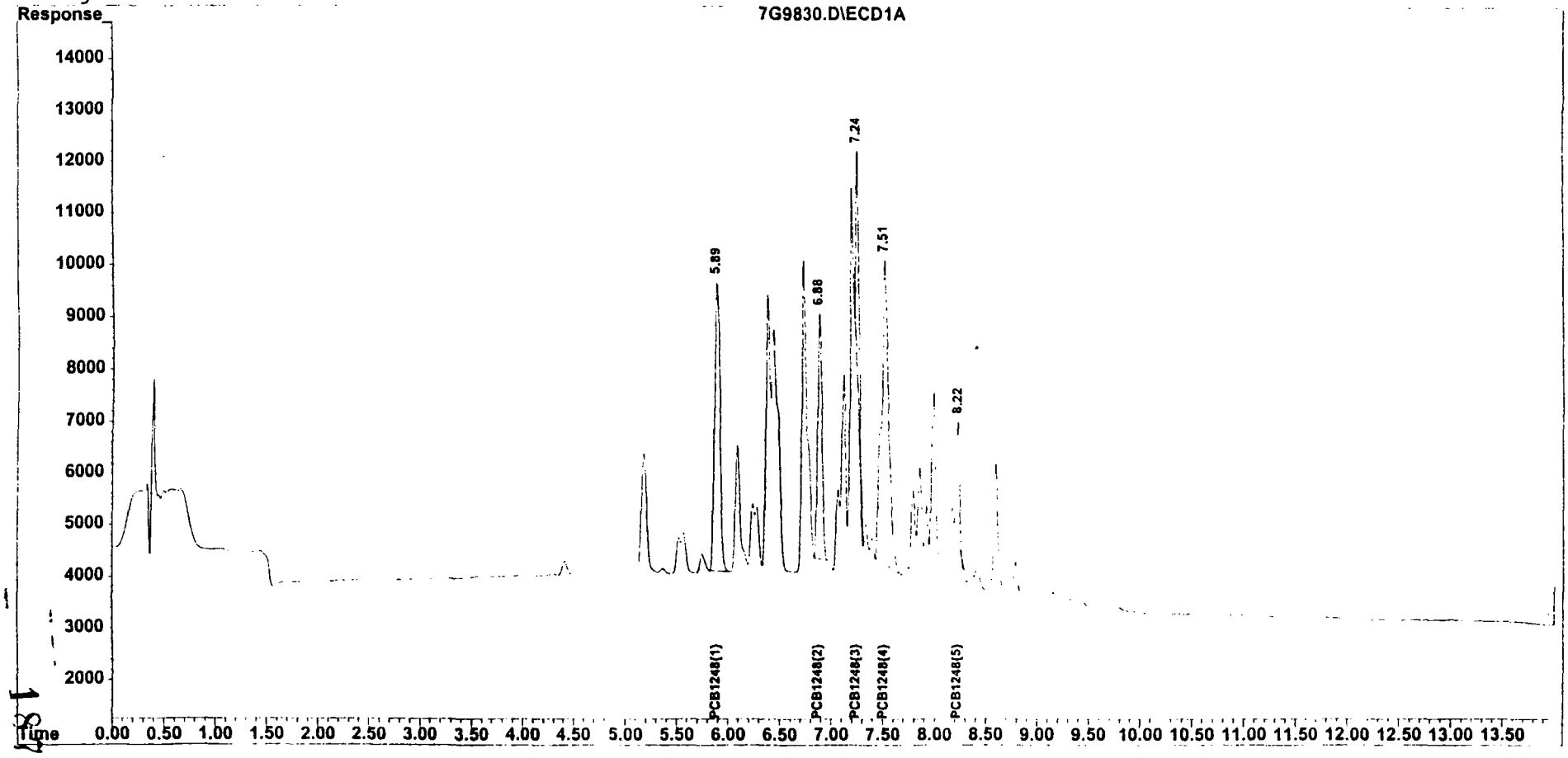
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700\7G9830.D Vial: 23
Acq On : 17 Nov 2000 20:11 Operator: SMW
Sample : ALT 1248 0.5 PPM S49-03 Inst : HP7
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 20 7:19 2000 Quant Results File: 1248SF.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SF.M (Chemstation Integrator)
Title : PCB
Last Update : Fri Oct 20 09:33:13 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9808R.D Vial: 51
Acq On : 17 Nov 2000 11:22 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	23.516	5.9	94	0.00
2	L1	PCB1016{1}	500.000	459.401	8.1	96	0.01
3	L1	PCB1016{2}	500.000	486.518	2.7	95	0.01
4	L1	PCB1016{3}	500.000	507.534	-1.5	109	0.01
5	L1	PCB1016{4}	500.000	442.342	11.5	89	0.00
6	L1	PCB1016{5}	500.000	488.803	2.2	100	0.00
7	L2	PCB1260{1}	500.000	637.150	-27.4#	104	0.00
8	L2	PCB1260{2}	500.000	471.770	5.6	97	0.00
9	L2	PCB1260{3}	500.000	496.327	0.7	105	0.00
10	L2	PCB1260{4}	500.000	469.511	6.1	99	0.00
11	L2	PCB1260{5}	500.000	485.459	2.9	103	0.00
12	S	DECACHLOROBIPHENYL	25.000	23.287	6.9	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9808R.D Vial: 51
Acq On : 17 Nov 2000 11:22 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 17 12:43 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.77	277735	23.516 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	117.58%
12) S DECACHLOROBIPHENYL	9.52	531477	23.287 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	116.44%
Target Compounds			
2) L1 PCB1016{1}	3.38	311875	459.401 UG/L
3) L1 PCB1016{2}	3.81	165930	486.518 UG/L
4) L1 PCB1016{3}	4.33	507356	507.534 UG/L
5) L1 PCB1016{4}	5.25	5361	442.342 UG/L
6) L1 PCB1016{5}	5.79	212401	488.803 UG/L
Sum PCB1016		1202922	2384.598 UG/L
Average PCB1016			476.920 UG/L
7) L2 PCB1260{1}	6.14	207504	637.150 UG/L
8) L2 PCB1260{2}	7.16	728422	471.770 UG/L
9) L2 PCB1260{3}	7.46	586685	496.327 UG/L
10) L2 PCB1260{4}	8.17	820512	469.511 UG/L
11) L2 PCB1260{5}	9.06	339725	485.459 UG/L
Sum PCB1260		2682848	2560.216 UG/L
Average PCB1260			512.043 UG/L

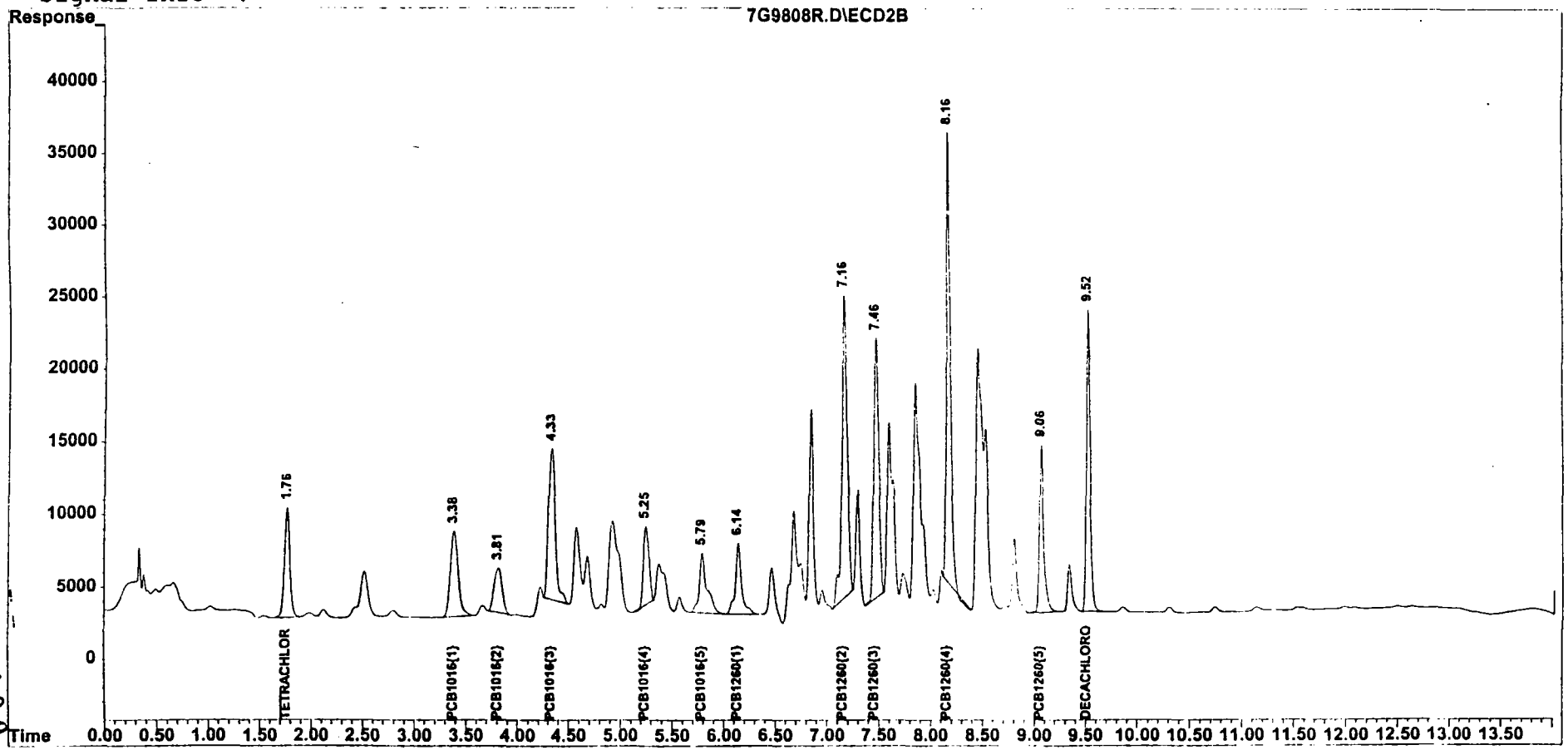
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitative Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9808R.D Vial: 51
Acq On : 17 Nov 2000 11:22 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 17 12:43 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9819R.D Vial: 62
Acq On : 17 Nov 2000 16:45 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	12.836	-2.7	105	0.00
2	L1	PCB1016 1}	250.000	264.909	-6.0	104	0.00
3	L1	PCB1016 2}	250.000	259.262	-3.7	103	0.00
4	L1	PCB1016 3}	250.000	258.751	-3.5	96	0.00
5	L1	PCB1016 4}	250.000	263.985	-5.6	105	0.00
6	L1	PCB1016 5}	250.000	281.333	-12.5	107	0.00
7	L2	PCB1260 1}	250.000	269.923	-8.0	95	0.00
8	L2	PCB1260 2}	250.000	275.574	-10.2	106	0.00
9	L2	PCB1260 3}	250.000	260.966	-4.4	105	0.00
10	L2	PCB1260 4}	250.000	269.436	-7.8	104	0.00
11	L2	PCB1260 5}	250.000	267.617	-7.0	108	0.00
12	S	DECACHLOROBIPHENYL	12.500	11.960	4.3	100	0.00

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9819R.D Vial: 62
Acq On : 17 Nov 2000 16:45 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 10:41 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

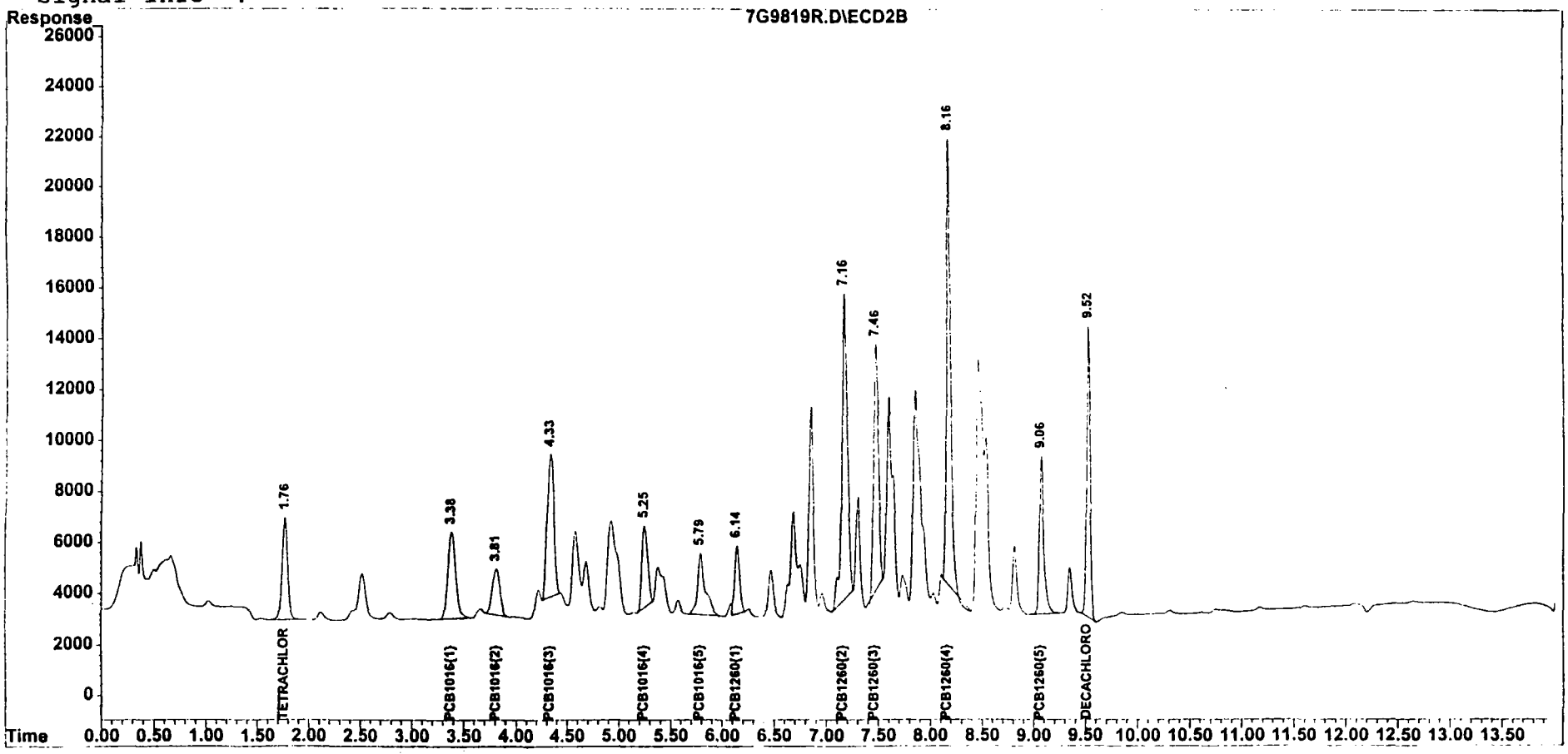
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	151597	12.836 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	64.18%
12) S DECACHLOROBIPHENYL	9.52	272967	11.960 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	59.80%
Target Compounds			
2) L1 PCB1016{1}	3.38	179839	264.909 UG/L
3) L1 PCB1016{2}	3.81	93835	259.262 UG/L
4) L1 PCB1016{3}	4.33	258660	258.751 UG/L
5) L1 PCB1016{4}	5.25	3199	263.985 UG/L
6) L1 PCB1016{5}	5.79	122248	281.333 UG/L
Sum PCB1016		657782	1328.239 UG/L
Average PCB1016			265.648 UG/L
7) L2 PCB1260{1}	6.14	87907	269.923 UG/L
8) L2 PCB1260{2}	7.16	425492	275.574 UG/L
9) L2 PCB1260{3}	7.47	308476	260.966 UG/L
10) L2 PCB1260{4}	8.17	470864	269.436 UG/L
11) L2 PCB1260{5}	9.06	187279	267.617 UG/L
Sum PCB1260		1480019	1343.517 UG/L
Average PCB1260			268.703 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9819R.D Vial: 62
Acq On : 17 Nov 2000 16:45 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 10:41 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9829R.D Vial: 72
Acq On : 17 Nov 2000 19:53 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	27.557	-10.2	110	0.00
2	L1	PCB1016{1}	500.000	524.412	-4.9	109	0.00
3	L1	PCB1016{2}	500.000	560.894	-12.2	108	0.00
4	L1	PCB1016{3}	500.000	518.469	-3.7	112	0.00
5	L1	PCB1016{4}	500.000	530.641	-6.1	107	0.00
6	L1	PCB1016{5}	500.000	557.935	-11.6	114	0.00
7	L2	PCB1260{1}	500.000	541.907	-8.4	88	0.00
8	L2	PCB1260{2}	500.000	545.412	-9.1	113	0.00
9	L2	PCB1260{3}	500.000	538.838	-7.8	114	0.00
10	L2	PCB1260{4}	500.000	572.647	-14.5	121	0.00
11	L2	PCB1260{5}	500.000	552.805	-10.6	117	0.00
12	S	DECACHLOROBIPHENYL	25.000	23.575	5.7	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9829R.D Vial: 72
Acq On : 17 Nov 2000 19:53 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 10:42 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

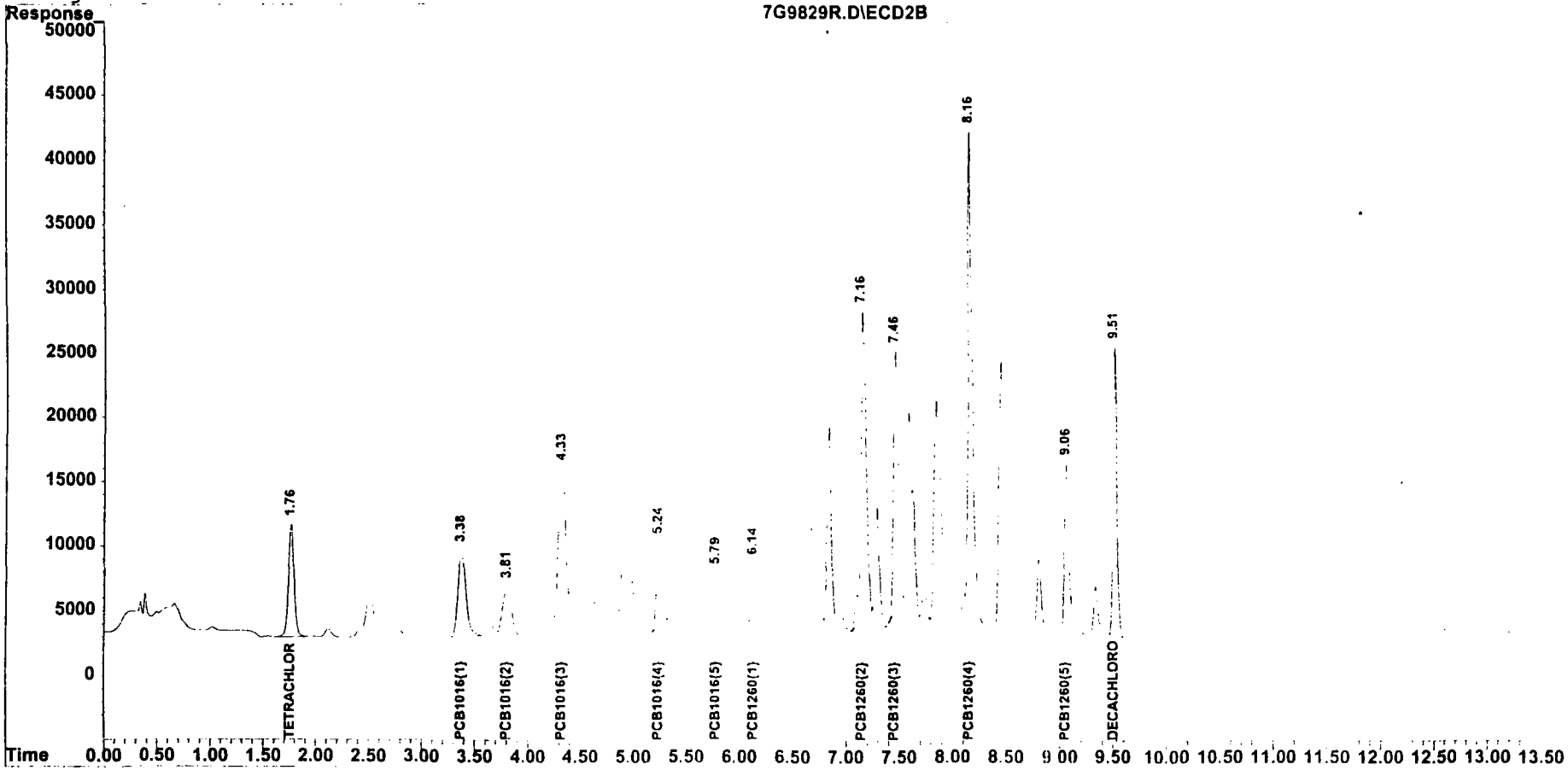
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	325455	27.557 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 137.79%	
12) S DECACHLOROBIPHENYL	9.52	538043	23.575 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 117.88%	
Target Compounds			
2) L1 PCB1016(1)	3.38	356009	524.412 UG/L
3) L1 PCB1016(2)	3.81	188975	560.894 UG/L
4) L1 PCB1016(3)	4.33	518286	518.469 UG/L
L1 PCB1016(4)	5.25	6431	530.641 UG/L
L1 PCB1016(5)	5.79	242441	557.935 UG/L
Sum PCB1016		1312143	2692.351 UG/L
Average PCB1016			538.470 UG/L
7) L2 PCB1260(1)	6.14	176466	541.907 UG/L
8) L2 PCB1260(2)	7.16	842126	545.412 UG/L
9) L2 PCB1260(3)	7.46	636936	538.838 UG/L
10) L2 PCB1260(4)	8.16	1000733	572.647 UG/L
11) L2 PCB1260(5)	9.06	386853	552.805 UG/L
Sum PCB1260		3043154	2751.609 UG/L
Average PCB1260			550.322 UG/L

(f)=RT Delta > 1/2 Window (m)=manual int.

D File : C:\HPCHEM\1\DATA\111700.SEC\7G9829R Vial: 72
Acq On : 17 Nov 2000 19:53 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 20 10:42 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\112800\7G9858.D Vial: 1
Acq On : 28 Nov 2000 7:24 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	25.000	26.759	-7.0	112	0.01
2	L1	PCB1016{1}	500.000	566.451	-13.3	119	0.01
3	L1	PCB1016{2}	500.000	578.826	-15.8#	140	0.00
4	L1	PCB1016{3}	500.000	552.609	-10.5	119	0.01
5	L1	PCB1016{4}	500.000	564.889	-13.0	119	0.01
6	L1	PCB1016{5}	500.000	491.568	1.7	102	0.01
7	L2	PCB1260{1}	500.000	604.999	-21.0#	110	0.01
8	L2	PCB1260{2}	500.000	543.206	-8.6	114	0.01
9	L2	PCB1260{3}	500.000	551.195	-10.2	125	0.01
10	L2	PCB1260{4}	500.000	529.777	-6.0	107	0.01
11	L2	PCB1260{5}	500.000	503.190	-0.6	100	0.01
12	S	DECACHLOROBIPHENYL	25.000	24.571	1.7	99	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G9858.D 8082F.M Tue Nov 28 10:44:58 2000

Data File : C:\HPCHEM\1\DATA\112800\7G9858.D Vial: 1
Acq On : 28 Nov 2000 7:24 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 28 8:05 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

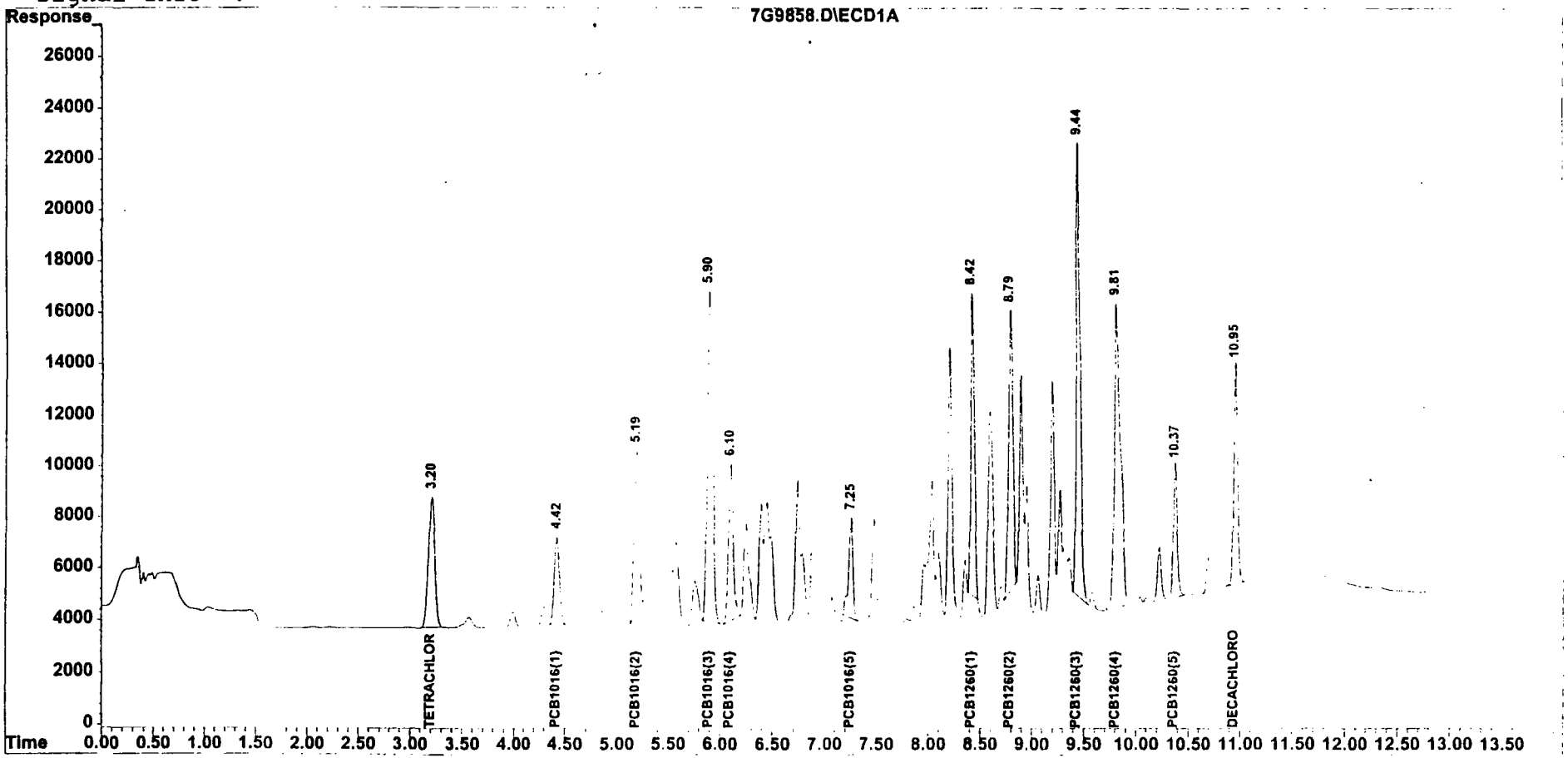
Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.20	211998	26.759 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 133.80%	
12) S DECACHLOROBIPHENYL	10.95	219514	24.571 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 122.86%	
Target Compounds			
2) L1 PCB1016{1}	4.42	117354	566.451 UG/L
3) L1 PCB1016{2}	5.19	218451	578.826 UG/L
4) L1 PCB1016{3}	5.90	453642	552.609 UG/L
L1 PCB1016{4}	6.10	188346	564.889 UG/L
6) L1 PCB1016{5}	7.25	111012	491.568 UG/L
Sum PCB1016		1088804	2754.342 UG/L
Average PCB1016			550.868 UG/L
7) L2 PCB1260{1}	8.42	274996	604.999 UG/L
8) L2 PCB1260{2}	8.79	315769	543.206 UG/L
9) L2 PCB1260{3}	9.44	447500	551.195 UG/L
10) L2 PCB1260{4}	9.81	479515	529.777 UG/L
11) L2 PCB1260{5}	10.37	132250	503.190 UG/L
Sum PCB1260		1650031	2732.367 UG/L
Average PCB1260			546.473 UG/L

Data File : C:\HPCHEM\1\DATA\112800\7G9858.D Vial: 1
Acq On : 28 Nov 2000 7:24 Operator: SMW
Sample : 1660 CONT CHK S50-23 Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 28 8:05 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\112800\7G9864.D Vial: 7
Acq On : 28 Nov 2000 11:28 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	TETRACHLORO-M-XYL	12.500	12.738	-1.9	101	0.00
2	L1	PCB1016{1}	250.000	286.017	-14.4	108	0.00
3	L1	PCB1016{2}	250.000	284.590	-13.8	110	0.00
4	L1	PCB1016{3}	250.000	263.799	-5.5	101	0.00
5	L1	PCB1016{4}	250.000	269.536	-7.8	103	0.00
6	L1	PCB1016{5}	250.000	276.640	-10.7	104	0.00
7	L2	PCB1260{1}	250.000	295.739	-18.3#	104	0.00
8	L2	PCB1260{2}	250.000	279.210	-11.7	105	0.00
9	L2	PCB1260{3}	250.000	282.751	-13.1	104	0.00
10	L2	PCB1260{4}	250.000	277.706	-11.1	103	0.00
11	L2	PCB1260{5}	250.000	265.446	-6.2	99	0.00
12	S	DECACHLOROBIPHENYL	12.500	13.848	-10.8	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\112800\7G9864.D Vial: 7
Acq On : 28 Nov 2000 11:28 Operator: SMW
Sample : 1660 CONT CHK S50-23 0.25 PPM Inst : HP7
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 28 12:46 2000 Quant Results File: 8082F.RES

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	3.19	100915	12.738 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery = 63.69%	
12) S DECACHLOROBIPHENYL	10.93	123718	13.848 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery = 69.24%	
Target Compounds			
2) L1 PCB1016{1}	4.41	59255	286.017 UG/L
3) L1 PCB1016{2}	5.18	107405	284.590 UG/L
4) L1 PCB1016{3}	5.89	216555	263.799 UG/L
5) L1 PCB1016{4}	6.09	89869	269.536 UG/L
6) L1 PCB1016{5}	7.24	62474	276.640 UG/L
Sum PCB1016		535559	1380.582 UG/L
Average PCB1016			276.116 UG/L
7) L2 PCB1260{1}	8.41	146345	295.733 UG/L
8) L2 PCB1260{2}	8.78	162306	279.210 UG/L
9) L2 PCB1260{3}	9.43	229557	282.751 UG/L
10) L2 PCB1260{4}	9.79	251359	277.706 UG/L
11) L2 PCB1260{5}	10.35	69766	265.446 UG/L
Sum PCB1260		859333	1400.851 UG/L
Average PCB1260			280.170 UG/L

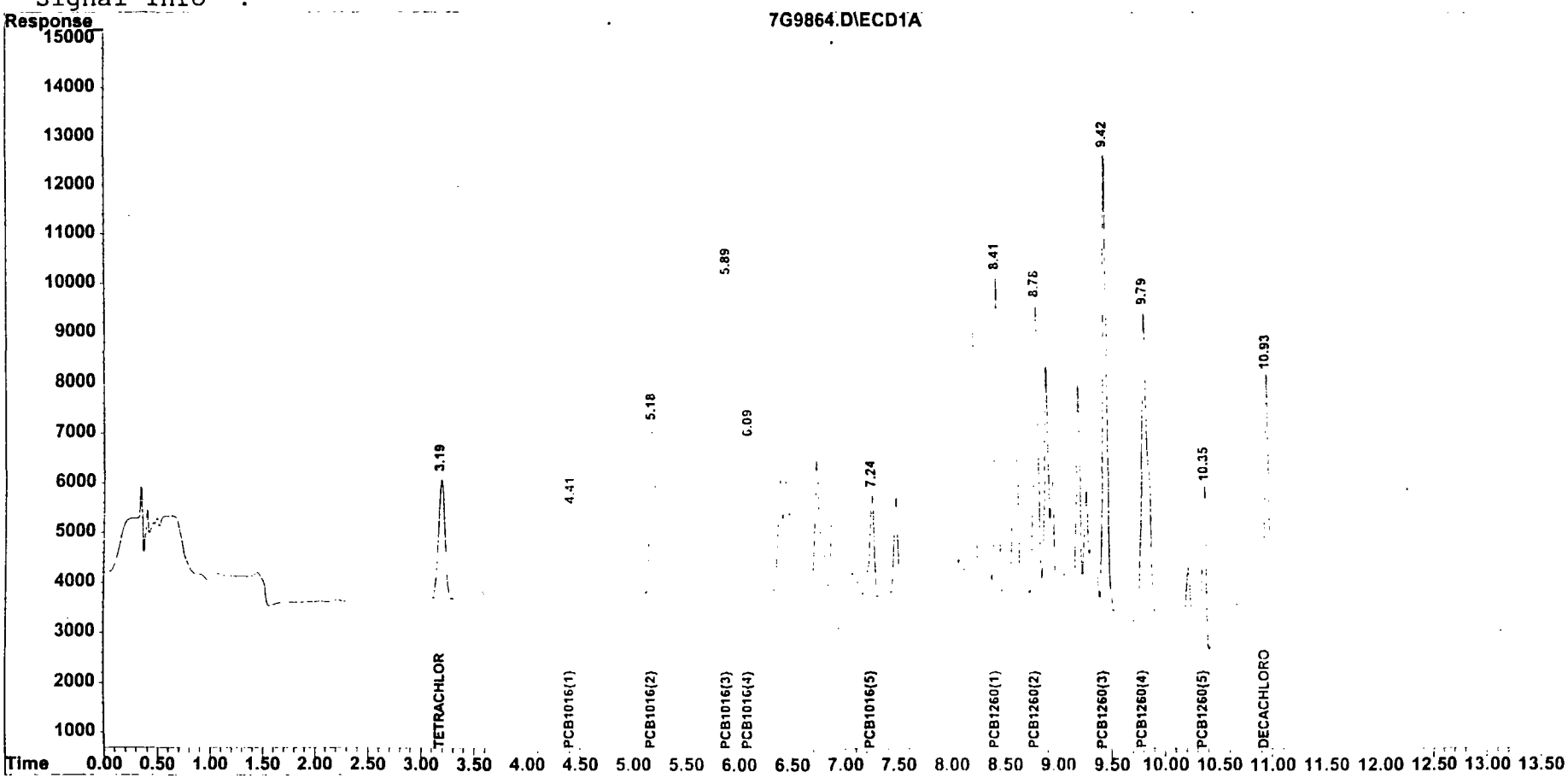
(f)=RT Delta > 1/2 Window (m)=manual int.
7G9864.D 8082F.M Tue Nov 28 12:46:58 2000

Data File : C:\HPCHEM\1\DATA\112800\7G9864.D
Acq On : 28 Nov 2000 11:28
Sample : 1660 CONT CHK S50-23 0.25 PPM
Misc :
IntFile : EVENTS.E
Quant Time: Nov 28 12:46 2000 Quant Results File: 8082F.RES

Vial: 7
Operator: SMW
Inst : HP7
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8082F.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/17/00
Last Update : Mon Nov 20 06:29:14 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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2.2.3.4 Raw QC Data

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9809R.D Vial: 52
Acq On : 17 Nov 2000 13:37 Operator: SMW
Sample : BLK V151P49 WG87451-02 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.75	87436	7.403 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	37.02%
12) S DECACHLOROBIPHENYL	9.51	199268	8.731 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	43.66%
Target Compounds			
2) L1 PCB1016{1}	0.00	0	N.D. UG/L
3) L1 PCB1016{2}	0.00	0	N.D. UG/L
4) L1 PCB1016{3}	0.00	0	N.D. UG/L
5) L1 PCB1016{4}	0.00	0	N.D. UG/L
6) L1 PCB1016{5}	5.77	4719	0.109 UG/L
Sum PCB1016		4719	0.109 UG/L
Average PCB1016			0.109 UG/L
7) L2 PCB1260{1}	0.00	0	N.D. UG/L
8) L2 PCB1260{2}	0.00	0	N.D. UG/L
9) L2 PCB1260{3}	0.00	0	N.D. UG/L
10) L2 PCB1260{4}	0.00	0	N.D. UG/L
11) L2 PCB1260{5}	0.00	0	N.D. UG/L
Sum PCB1260		0	N.D. UG/L
Average PCB1260			0.000 UG/L

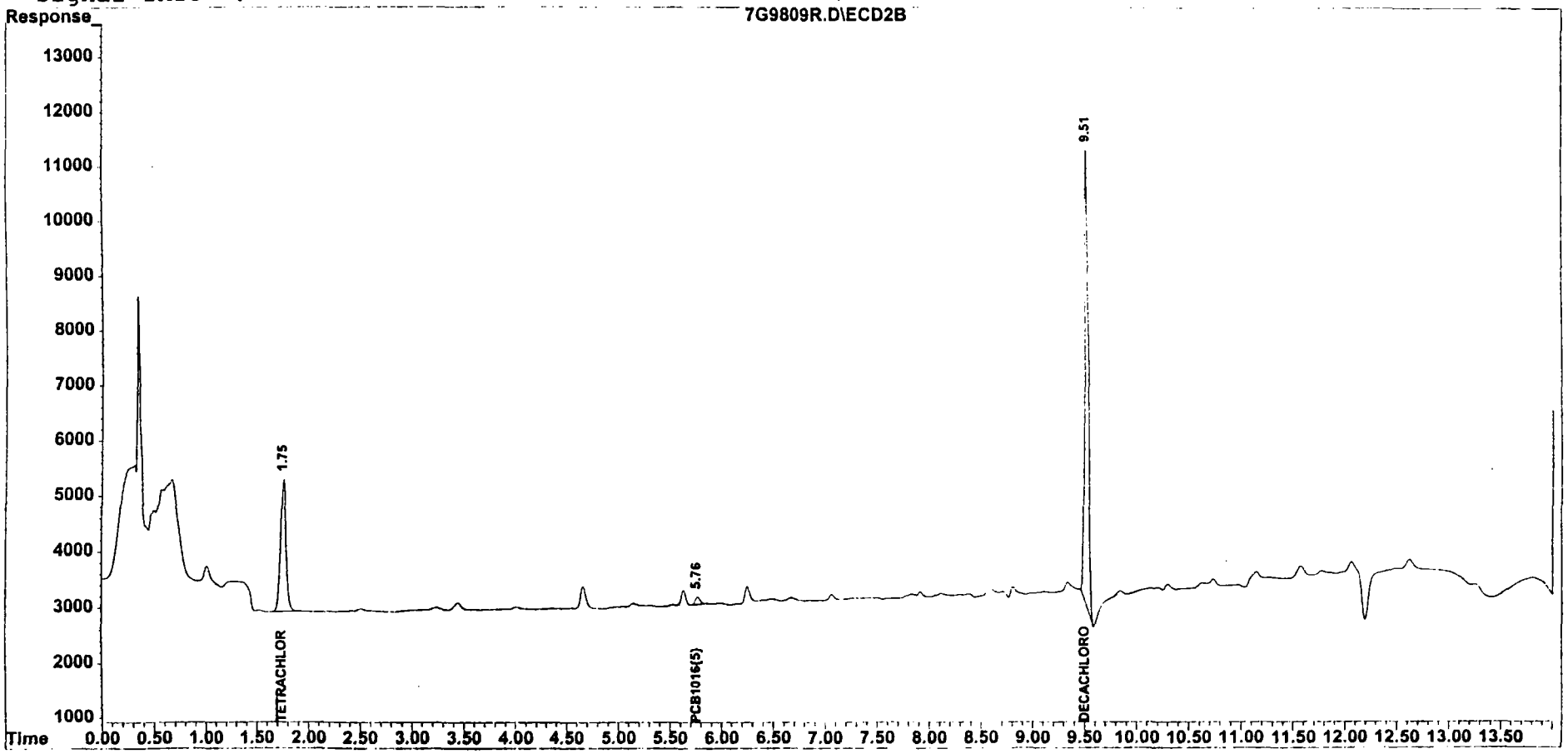
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9809R.D Vial: 52
Acq On : 17 Nov 2000 13:37 Operator: SMW
Sample : BLK V151P49 WG87451-02 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9810R.D Vial: 53
Acq On : 17 Nov 2000 13:55 Operator: SMW
Sample : LCS V151P49 WG87451-03 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	152841	12.941 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	64.71%
12) S DECACHLOROBIPHENYL	9.51	221053	9.686 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	48.43%
Target Compounds			
2) L1 PCB1016{1}	3.37	64375	0.948 UG/L
3) L1 PCB1016{2}	3.80	32628	0.723 UG/L
4) L1 PCB1016{3}	4.33	153465	1.535 UG/L
5) L1 PCB1016{4}	5.24	3471	2.864 UG/L
6) L1 PCB1016{5}	0.00	0	N.D. UG/L
Sum PCB1016		253940	6.071 UG/L
Average PCB1016			1.518 UG/L
7) L2 PCB1260{1}	6.13	236273	7.255 UG/L
8) L2 PCB1260{2}	7.16	13340	0.086 UG/L
9) L2 PCB1260{3}	7.46	20497	0.173 UG/L
10) L2 PCB1260{4}	8.16	20779	0.119 UG/L
11) L2 PCB1260{5}	9.06	12967	0.185 UG/L
Sum PCB1260		303855	7.819 UG/L
Average PCB1260			1.564 UG/L

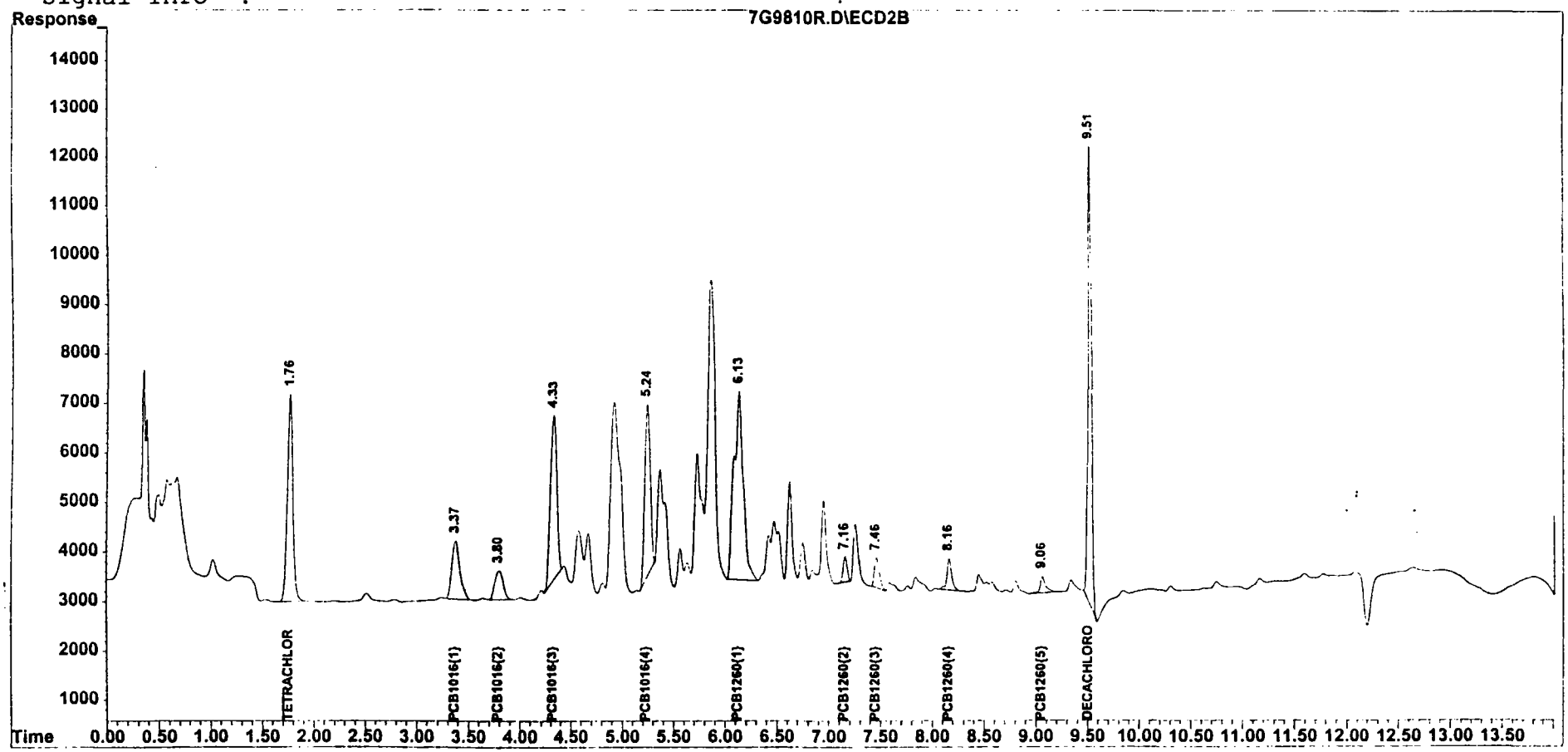
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9810R.D Vial: 53
Acq On : 17 Nov 2000 13:55 Operator: SMW
Sample : LCS V151P49 WG87451-03 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : EVENTS.E
Quant Time: Nov 20 10:46 2000 Quant Results File: 8082R.RES

Quant Method : C:\HPCHEM\1\METHODS\8082R.M (Chemstation Integrator)
Title : 8082 CALIBRATION 11/14/00
Last Update : Wed Nov 15 06:55:55 2000
Response via : Multiple Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9810R.D Vial: 53
Acq On : 17 Nov 2000 13:55 Operator: SMW
Sample : LCS V151P49 WG87451-03 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 10:48 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Initial Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TETRACHLORO-M-XYL	1.76	155457	14.783 UG/L
Spiked Amount 20.000 Range 13 - 154		Recovery =	73.91%
7) S DECACHLOROBIPHENYL	9.51	222631	10.718 UG/L
Spiked Amount 20.000 Range 25 - 140		Recovery =	53.59%
Target Compounds			
2) L1 PCB1248{1}	4.33	153465	2.691 UG/L
3) L1 PCB1248{2}	4.92	246381	2.643 UG/L
4) L1 PCB1248{3}	5.24	130881	2.664 UG/L
5) L1 PCB1248{4}	5.86	212853	2.695 UG/L
6) L1 PCB1248{5}	6.62	37525	1.693 UG/L
Sum PCB1248		781104	12.386 UG/L
Average PCB1248			2.477 UG/L

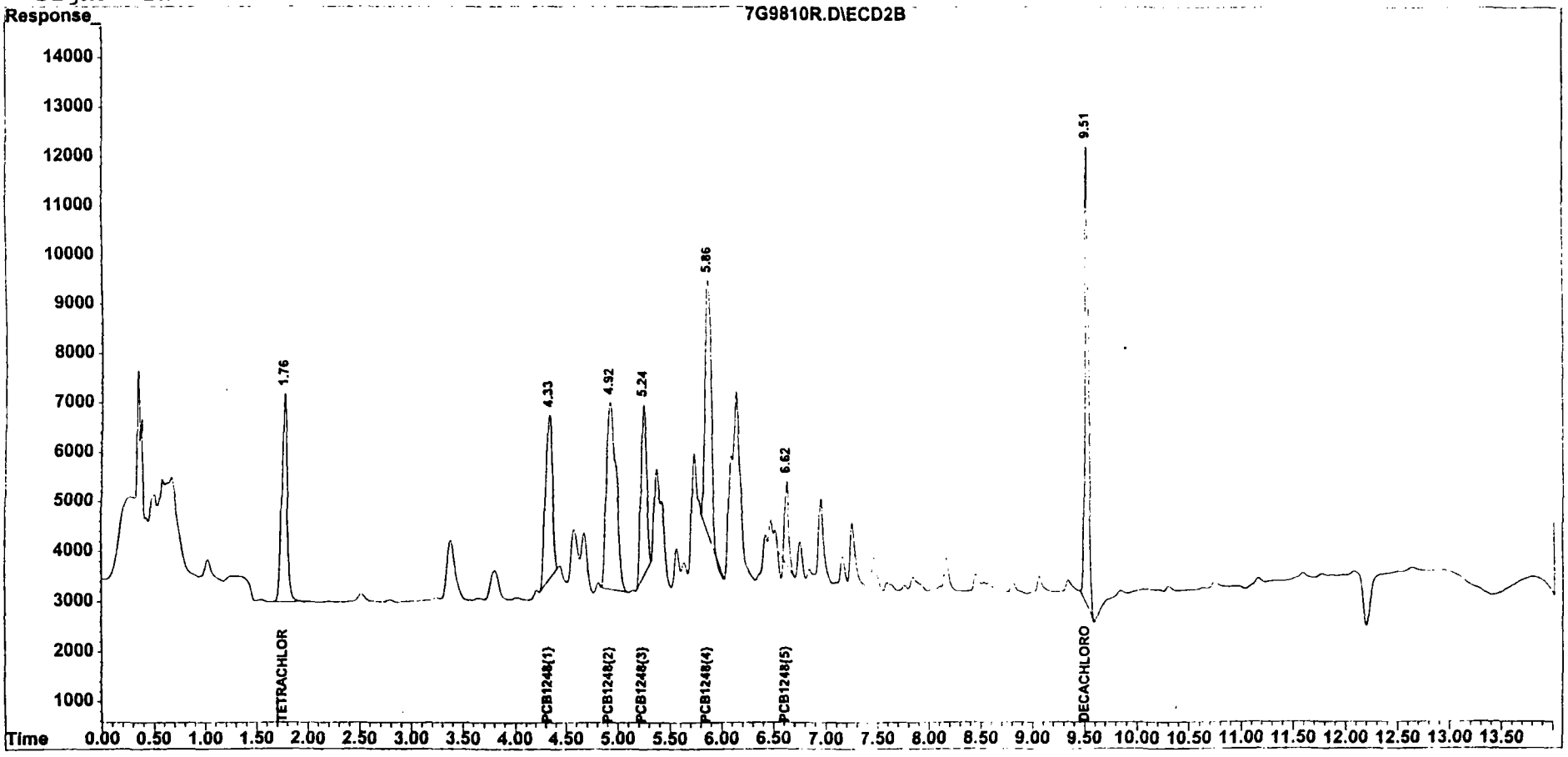
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitat Report

Data File : C:\HPCHEM\1\DATA\111700.SEC\7G9810R.D Vial: 53
Acq On : 17 Nov 2000 13:55 Operator: SMW
Sample : LCS V151P49 WG87451-03 Inst : HP7
Misc : WATER Multiplr: 0.01
IntFile : AUTOINT1.E
Quant Time: Nov 20 10:48 2000 Quant Results File: 1248SR.RES

Quant Method : C:\HPCHEM\1\METHODS\1248SR.M (Chemstation Integrator)
Title : PCB
Last Update : Tue Sep 26 12:59:11 2000
Response via : Single Level Calibration
DataAcq Meth : 8082.M

Volume Inj. :
Signal Phase :
Signal Info :



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KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 11-14-00 Column ID RTX-CLP PESTICIDE Analyst SMW
Instrument ID HP7 Data Subdirectory 11400
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO)
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol)
SOP # GCS09 Rev. # 1 _____ 8081A
SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases ARGON	✓

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
TG9120	HEXANE				
21	ICV 11610 2.0 PPM 55023	1	8082	✓	
22	1.0				
23	0.5				
24	0.25				
25	0.1				
26	0.05				
27	ACT 11610 0.5 PPM 348-12				
28	ICV 1254 2.0 PPM 55002				
29	1.0				
30	0.5				
31	0.25				

Comments:

Reviewed By: CCK 11/15/00

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
* = specified level

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Semivolatile GC Labor[illegible]

Date 11-14-00 Instrument ID HP7 Data Subdirectory 111400 Column ID RTX-CLPPLUS

Run #	Sample Description	Dilution Factor	Method File	Analysis Completed	Comments
7G 9732	ICV 1251 0.1 PPM S50-02	1	8080	—	
33	— 0.05 —				
34	ACT 1254 0.5 PPM S47-47				
35	ICV 1201 0.5 PPM S49-04				
36	1232 S49-31				
37	1242 S49-50				
38	1248 S50-01				
39	ACT 1201 S50-0214				
40	1232 S49-32				
41	1242 S47-48				
42	1248 S49-03				

SMW 11-15-00

Reviewed By: CLL 11/15/00

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RRM = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 11-17-00 Column ID PTX GC-REAR Analyst [illegible]
Instrument ID HP7 Data Subdirectory 111700
SOP # GCS01 Rev. # 1 8100 SOP # GCS02 Rev. # 2 8015B Mod (DRO) SOP # GCS09 Rev. # 1 8081A
SOP # GCS03 Rev. # 1 PRO SOP # GCS02 Rev. # 2 8015B Mod (Alcohol) SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS04 Rev. # 1 8151
SOP # GCS07 Rev. # 3 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
TG 9808	1660 ✓ SSD-23	1	8082	✓	
9	BLK V151 P49 WG 8745/00				
10	LCS " -03				
11	LCD1315-01				
12	-02				
13	-03				
14	-04				
15	-05				
16	-06				
17	-07				
18	-08				
19	1660 ✓ SSD-23 0.25ppm				

Comments:

Reviewed By: [illegible]

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Semivolatile GC Laboratory Maintenance / Runlog

Date 11-17-00 Instrument ID HP1 Data Subdirectory 111700 Column ID -CCP RETRP

Run #	Sample Description	Dilution Factor	Method File	Analysis Completed	Comments
76 9800	LCD11315-09	1	8280	—	
21	-10				
22	-11				
23	-12				
24	-13MS				
25	-14MSD				
26	-15				
27	-16				
28	-17				
29	1660 ✓ SSD 03				
30	BLK V151P45 WG87432-03				
31	LCS ——— -03				
32	LCD11268-01				
33	-01MS				
34	-01MSD				
35	LCD11339-01				
36	-02				
37	-03				
38	-04				
39	-05				
40	1660 ✓ SSD-23 0.25 PPM				
41	LCD 11339-06				needs conf
42	-07				
43	-08				needs conf

Comments:

Reviewed By: [illegible]

✓ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standard
CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 11-17-00 CONT Column ID RTX-CLP REAR Analyst SRMO SOP # GCS09 Rev. # 1 _____ 8081A
Instrument ID HP7 Data Subdirectory 111700 SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO) SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (____ cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes _____ No _____ Additional Discussion on Page _____

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
76 9844	LOD11 339-09	1	8082	✓	
45	-10				
46	LOD11 342-01				needs conf.
47	LOD11 344-01				
48	-02				
49	-03				
50	-04				
51	11660 ✓ 550-03				
52	LOD 11344 05				
53	-06				
54	LOD11007-02				
55	11660 ✓ 550-23 0.25 PPM				

Comments:

Reviewed By [signature]

√ = Compliant Analysis. Reanalysis complete

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KEMRON ENVIRONMENTAL SERVICES

Semivolatile GC Laboratory Maintenance / Runlog

Date 11-17-00 Instrument ID HP7 Data Subdirectory 111700 Column ID RTX-CLP REAR

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
96 9857	HEXANE	1	8080	✓	

SMW 11-20-00

Comments:

√ = Compliant Analysis, Reanalysis complete
RR = Rerun
RR# = Rerun at a specified level

SMI = Sample matrix interference
MT = Missed Tune, beyond method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Reviewed By: [illegible] 11/20/00

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 11-17-00 Column ID RTX-CLP I-FRONT Analyst amw SOP # GCS09 Rev. # 1 8081A
Instrument ID HP7 Data Subdirectory 111700 SOP # GCS10 Rev. # 3 — 8082
SOP # GCS01 Rev. # 1 8100 SOP # GCS02 Rev. # 2 8015B Mod (DRO) SOP # GCS04 Rev. # 1 8151
SOP # GCS03 Rev. # 1 PRO SOP # GCS02 Rev. # 2 8015B Mod (Alcohol) SOP # GCS07 Rev. # 3 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem: conf. issues for P93. Samples reported on HP7 were diluted. Samples reported in HP10

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
7G9808	1640 ✓ SSD #3	1	8082	cc	
9	ICV 1640 2.0 PPM SSD #3			✓	
10	1.0				
11	0.5				
12	0.25				
13	0.125				
14	0.05				
15	ACV 1640 0.5 PPM SSD #2				
16	ICV 1254 2.0 PPM SSD #2				
17	1.0				
18	0.5				
19	0.25				

Comments:

Reviewed By: [illegible]

✓ = Compliant Analysis, Reanalysis complete

Date 11-17-00 Instrument ID HP7 Date Inactive 11/28/

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
7G 9820	ICV 1254 0.1 ppm 550-00	1	8082	✓	
21	0.05				
22	ACT 1254 0.5 ppm 547-47				
23	ICV 1291 0.5 ppm 549-84				
24	1232 549-81				
25	1242 544-50				
26	1248 550-01				
27	ACT 1291 550-1274				
28	1232 549-80				
29	1242 547-48				
30	1248 549-83				
31	MDST-BLK 549-47				
32	CCD11-143-290				
33	-71				
34	CCD11-123-07				conf HP7 run 11/08/00
35	-08				
36	1232-✓ 550-02				
37	1010-✓ 550-23				
38	CCD11-159-01 50X	50X			conf HP10 11/10/00
39	CCD11-183-01				
40	CCD11-188-09				conf HP7B 11/13/00
41	CCD11-193-01				
42	-03				
43	-06				

Comments:

Reviewed By: mle 11/20/00

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RE = Re-extraction analysis

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CC = Continuing calibration failed

KEMRON ENVIRONMENTAL SERVICES
Semivolatile GC Laboratory Maintenance / Runlog

Date 1H7-00 CONT Column ID RTX-1 UPTEFRONT Analyst SMW
Instrument ID HP7 Data Subdirectory 111700
SOP # GCS01 Rev. # 1 _____ 8100 SOP # GCS02 Rev. # 2 _____ 8015B Mod (DRO)
SOP # GCS03 Rev. # 1 _____ PRO SOP # GCS02 Rev. # 2 _____ 8015B Mod (Alcohol)
SOP # GCS09 Rev. # 1 _____ 8081A
SOP # GCS10 Rev. # 3 ✓ 8082
SOP # GCS04 Rev. # 1 _____ 8151
SOP # GCS07 Rev. # 3 _____ 8011

Daily Check	
gases >500 psi	✓
change liner	
change septum	
Preventative Maintenance	
change o-ring	
clip column (cm)	
injection port seal (goldseal)	
change gases	

Additional Maintenance

Problem:

Action Taken:

Returned to Control? Yes No Additional Discussion on Page

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
76 9844	LOD11193-17 100X	100	8080	✓	conf HP10 11/16/00
45	-18 10X	10			↓
46	-19	1			conf HP7 11/15/00
47	-20 10X	10			conf HP10 11/16/00
48	11610 ✓ 500 323 0.20 PPM	1			
49	LOD11193-11 100X	100			conf HP10 11/16/00
50	-12 50X	50			↓
51	-14	1			conf HP7B 11/13/00
52	-15	↓			↓
53	LOD10654-10				↓
54	LOD11191-01				↓
55	-08	↓		↓	↓

Comments:

Reviewed By: [illegible] 11/20/00

✓ = Compliant Analysis. Reanalysis complete

Date 11-17-00 Instrument ID 137 Date Collected [illegible]

Run #	Sample Description	Dilution Factor	Method File	Analysis Complete	Comments
TG 9856	1100 11196-01 1100X	100	8082	✓	
57	1100 V 550-23	1		✓	

SMM 11/20/00

Comments:

Reviewed By: [illegible] 11/20/00

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RR = Rerun
RR# = Rerun at a specified level

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MT = Missed Tune, beyound method tuning requirements
RE = Re-extraction analysis

IS or SS = Interference with internal and/or surrogate standards
CC = Continuing calibration failed

Sample Extract Log Sheet

Volume 151
Page 49

Parameter: PCB H_2O SOP #: EXP01 Revision #: 8
Ext Analyst(s): KDS, GSG TV/KD Analyst(s): JAW
Date/Time Ext: 11/16/00 @ 1700 Date TV/KD: 11/16/00
Spike/Surrogate Analyst: GSG Witness: KDS
Extract Relinquished By: [signature]
Extract Received By: [signature] Date Ext Received: 11/17/00

SW-846 Method			On	Off	On	Off
Continuous L-L	3520C					
Soxhlet	3540C					
ASE *	3545					
Separatory Funnel	3510C					
Sonication	3550B					
Waste	3580A					

Extraction Work Group WG 87451
Analytical Work Group WG 87558

	Client ID	Sample ID	pH <2	pH N	pH >12	Test Code	Initial Vol / Wt	Amount of Surrogate Added	Amount of Spike Added	Final Volume	Extract Color	Emulsion A	Emulsion BN	Emulsion N	Comments
1		Blank		✓			1L	200ul ES0034-35		10ml	T				WG 87451-02
2		LCS		✓					100ul ES0034-25						WG L-03
3	OMC	11-315-01		✓		8082									
4		-02		✓											
5		-03		✓											
6		-04		✓											
7		-05		✓											
8		06		✓											
9		-07		✓											
10		-08		✓											
11		-09		✓											
12		-10		✓											
13		-11		✓											
14		-12		✓											
15		-13MS		✓					100ul ES0034-25						WG 87451-04
16		-14MSD		✓											L -05
17		-15		✓											
18		-16		✓											
19		-17		✓											
20															
21															
22							1ID	11/16/00							
23															
24															

Reviewed By: [signature] Date: 11/17/00

*Accelerated Solvent Extractor (ASE)
Color Code

Sample Extr[illegible]g-Sheet

Extraction Comments / Notes For Extraction Volume #: 151 Page #: 49 Work G[illegible]

Solvent: CH_2Cl_2 Lot #: 40215 Florisil Lot #: T32556
Solvent: Hexane Lot #: 60160 Silica Gel #: —
Acid: H_2SO_4 Lot #: T04058 IR Analyst/Date/Time: —
Reagent: 9416 Lot #: er1360 Baked Na_2SO_4 Lot #: CR1332
Reagent: — Lot #: — Earliest Hold Date #: 11/21

Clean-up		✓	
Florisil	3620B	✓	Sulfur
Silica Gel	3630C		Other
GPC	3640A		
Acid	3665A	✓	

General Comments: Spk was 1248.
MS, MSD of 11-315+210 [illegible]

Extraction Anomalies: none

Concentration Anomalies: none

Clean-Up Anomalies: none

Reviewed By: _____ Date: _____