



GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

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Method Blank Summary

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Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-MB1	F92524.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	20	1.3	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	0.74	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.1	ug/l	
	3&4-Methylphenol	ND	2.0	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.2	ug/l	
100-02-7	4-Nitrophenol	ND	10	0.83	ug/l	
87-86-5	Pentachlorophenol	ND	10	0.80	ug/l	
108-95-2	Phenol	ND	2.0	0.58	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.81	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.2	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.37	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.27	ug/l	
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
62-53-3	Aniline	ND	2.0	0.23	ug/l	
120-12-7	Anthracene	ND	1.0	0.16	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
92-87-5	Benzidine	ND	20	4.5	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.12	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.25	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.12	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.38	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
100-51-6	Benzyl Alcohol	ND	2.0	0.31	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
218-01-9	Chrysene	ND	1.0	0.11	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-MB1	F92524.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.42	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	1.0	0.25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.36	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.15	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.27	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.13	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
91-20-3	Naphthalene	ND	1.0	0.43	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	2.0	0.73	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.21	ug/l	
129-00-0	Pyrene	ND	1.0	0.16	ug/l	
110-86-1	Pyridine	ND	2.0	0.27	ug/l	
91-22-5	Quinoline	ND	5.0	0.29	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.48	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.44	ug/l	

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-MB1	F92524.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	46% 13-68%
4165-62-2	Phenol-d5	26% 10-49%
118-79-6	2,4,6-Tribromophenol	107% 37-130%
4165-60-0	Nitrobenzene-d5	98% 25-112%
321-60-8	2-Fluorobiphenyl	94% 31-106%
1718-51-0	Terphenyl-d14	102% 14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-MB1	3P616.D	1	10/26/10	KLS	10/25/10	OP46332	E3P29

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11,
JA58900-12, JA58900-14

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	570	52	ug/kg	
95-57-8	2-Chlorophenol	ND	140	29	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	140	29	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	140	46	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	140	48	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	570	35	ug/kg	
95-48-7	2-Methylphenol	ND	57	33	ug/kg	
	3&4-Methylphenol	ND	57	36	ug/kg	
88-75-5	2-Nitrophenol	ND	140	30	ug/kg	
100-02-7	4-Nitrophenol	ND	290	48	ug/kg	
87-86-5	Pentachlorophenol	ND	290	49	ug/kg	
108-95-2	Phenol	ND	57	30	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	140	29	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	140	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	140	27	ug/kg	
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
98-86-2	Acetophenone	ND	140	5.0	ug/kg	
62-53-3	Aniline	ND	57	6.0	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
1912-24-9	Atrazine	ND	140	5.6	ug/kg	
92-87-5	Benzidine	ND	570	110	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	57	17	ug/kg	
100-51-6	Benzyl Alcohol	ND	57	12	ug/kg	
92-52-4	1,1'-Biphenyl	ND	57	3.3	ug/kg	
106-47-8	4-Chloroaniline	ND	140	9.1	ug/kg	
86-74-8	Carbazole	ND	57	13	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	57	8.6	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	57	8.5	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	57	8.6	ug/kg	

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-MB1	3P616.D	1	10/26/10	KLS	10/25/10	OP46332	E3P29

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	57	8.2	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	57	12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	57	7.7	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	57	6.4	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	57	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	57	11	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	140	7.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
132-64-9	Dibenzofuran	ND	57	8.5	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	57	6.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	57	14	ug/kg	
84-66-2	Diethyl phthalate	ND	57	9.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	57	25	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
118-74-1	Hexachlorobenzene	ND	57	9.3	ug/kg	
87-68-3	Hexachlorobutadiene	ND	29	7.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	570	29	ug/kg	
67-72-1	Hexachloroethane	ND	140	7.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
78-59-1	Isophorone	ND	57	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	57	16	ug/kg	
88-74-4	2-Nitroaniline	ND	140	13	ug/kg	
99-09-2	3-Nitroaniline	ND	140	11	ug/kg	
100-01-6	4-Nitroaniline	ND	140	11	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
98-95-3	Nitrobenzene	ND	57	8.3	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	57	25	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	57	7.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	140	17	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	
110-86-1	Pyridine	ND	57	11	ug/kg	
91-22-5	Quinoline	ND	140	27	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	140	8.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	57	7.6	ug/kg	

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-MB1	3P616.D	1	10/26/10	KLS	10/25/10	OP46332	E3P29

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	73%	30-109%
4165-62-2	Phenol-d5	65%	28-108%
118-79-6	2,4,6-Tribromophenol	77%	28-125%
4165-60-0	Nitrobenzene-d5	83%	28-113%
321-60-8	2-Fluorobiphenyl	84%	38-107%
1718-51-0	Terphenyl-d14	92%	31-116%

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Blank Spike Summary

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Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-BS1	F92525.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	50	18.9	38	8-75
95-57-8	2-Chlorophenol	50	41.2	82	41-102
59-50-7	4-Chloro-3-methyl phenol	50	45.1	90	52-117
120-83-2	2,4-Dichlorophenol	50	44.3	89	47-113
105-67-9	2,4-Dimethylphenol	50	46.9	94	43-122
51-28-5	2,4-Dinitrophenol	100	92.1	92	32-138
95-48-7	2-Methylphenol	50	38.3	77	36-100
	3&4-Methylphenol	50	35.3	71	31-98
88-75-5	2-Nitrophenol	50	47.2	94	44-114
100-02-7	4-Nitrophenol	50	20.0	40	16-76
87-86-5	Pentachlorophenol	50	46.7	93	35-122
108-95-2	Phenol	50	20.4	41	15-62
58-90-2	2,3,4,6-Tetrachlorophenol	50	41.3	83	54-116
95-95-4	2,4,5-Trichlorophenol	50	44.4	89	56-115
88-06-2	2,4,6-Trichlorophenol	50	44.0	88	54-113
83-32-9	Acenaphthene	50	50.7	101	46-110
208-96-8	Acenaphthylene	50	42.1	84	42-103
98-86-2	Acetophenone	50	47.6	95	46-113
62-53-3	Aniline	50	38.0	76	14-92
120-12-7	Anthracene	50	52.9	106	57-123
1912-24-9	Atrazine	50	52.7	105	55-127
92-87-5	Benzidine	50	28.4	57	1-121
56-55-3	Benzo(a)anthracene	50	45.7	91	56-125
50-32-8	Benzo(a)pyrene	50	46.9	94	57-125
205-99-2	Benzo(b)fluoranthene	50	47.5	95	49-130
191-24-2	Benzo(g,h,i)perylene	50	45.5	91	55-129
207-08-9	Benzo(k)fluoranthene	50	49.6	99	53-132
85-68-7	Butyl benzyl phthalate	50	47.6	95	55-132
100-51-6	Benzyl Alcohol	50	39.6	79	22-104
92-52-4	1,1'-Biphenyl	50	42.9	86	43-107
106-47-8	4-Chloroaniline	50	42.8	86	34-103
86-74-8	Carbazole	50	46.3	93	63-122
218-01-9	Chrysene	50	51.3	103	57-123
111-44-4	bis(2-Chloroethyl)ether	50	42.4	85	36-124
108-60-1	bis(2-Chloroisopropyl)ether	50	43.4	87	40-106
7005-72-3	4-Chlorophenyl phenyl ether	50	43.8	88	50-117

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Blank Spike Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-BS1	F92525.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50	32.4	65	22-90
122-66-7	1,2-Diphenylhydrazine	50	45.9	92	48-132
541-73-1	1,3-Dichlorobenzene	50	29.8	60	19-85
106-46-7	1,4-Dichlorobenzene	50	30.4	61	20-88
121-14-2	2,4-Dinitrotoluene	50	52.4	105	56-124
606-20-2	2,6-Dinitrotoluene	50	50.5	101	55-128
91-94-1	3,3'-Dichlorobenzidine	50	32.1	64	42-116
53-70-3	Dibenzo(a,h)anthracene	50	47.8	96	55-133
132-64-9	Dibenzofuran	50	44.3	89	53-109
84-74-2	Di-n-butyl phthalate	50	47.3	95	58-130
117-84-0	Di-n-octyl phthalate	50	51.0	102	55-133
84-66-2	Diethyl phthalate	50	45.3	91	52-123
117-81-7	bis(2-Ethylhexyl)phthalate	50	47.8	96	57-134
206-44-0	Fluoranthene	50	45.7	91	56-124
86-73-7	Fluorene	50	45.3	91	53-118
118-74-1	Hexachlorobenzene	50	46.8	94	54-119
87-68-3	Hexachlorobutadiene	50	28.5	57	11-100
77-47-4	Hexachlorocyclopentadiene	100	101	101	5-120
67-72-1	Hexachloroethane	50	25.3	51	13-88
193-39-5	Indeno(1,2,3-cd)pyrene	50	47.6	95	55-131
78-59-1	Isophorone	50	47.0	94	43-120
91-57-6	2-Methylnaphthalene	50	37.5	75	33-103
88-74-4	2-Nitroaniline	50	47.6	95	48-132
99-09-2	3-Nitroaniline	50	44.9	90	48-115
100-01-6	4-Nitroaniline	50	47.2	94	51-125
91-20-3	Naphthalene	50	39.0	78	33-98
98-95-3	Nitrobenzene	50	44.9	90	41-114
62-75-9	n-Nitrosodimethylamine	50	21.3	43	11-81
621-64-7	N-Nitroso-di-n-propylamine	50	44.8	90	41-121
86-30-6	N-Nitrosodiphenylamine	50	47.0	94	54-136
85-01-8	Phenanthrene	50	51.9	104	57-119
129-00-0	Pyrene	50	44.1	88	56-123
110-86-1	Pyridine	50	17.8	36	14-70
91-22-5	Quinoline	50	49.7	99	51-119
95-94-3	1,2,4,5-Tetrachlorobenzene	50	43.5	87	18-130
120-82-1	1,2,4-Trichlorobenzene	50	34.0	68	21-97

7.2.1
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Blank Spike Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-BS1	F92525.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	13-68%
4165-62-2	Phenol-d5	38%	10-49%
118-79-6	2,4,6-Tribromophenol	101%	37-130%
4165-60-0	Nitrobenzene-d5	98%	25-112%
321-60-8	2-Fluorobiphenyl	94%	31-106%
1718-51-0	Terphenyl-d14	101%	14-122%

7.2.1

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Blank Spike Summary

Page 1 of 3

Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-BS1	3P617.D	1	10/26/10	KLS	10/25/10	OP46332	E3P29

The QC reported here applies to the following samples:**Method:** SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	1430	1050	74	3-149
95-57-8	2-Chlorophenol	1430	1090	76	55-107
59-50-7	4-Chloro-3-methyl phenol	1430	1210	85	57-116
120-83-2	2,4-Dichlorophenol	1430	1120	78	54-116
105-67-9	2,4-Dimethylphenol	1430	1270	89	55-127
51-28-5	2,4-Dinitrophenol	2860	2440	85	14-139
95-48-7	2-Methylphenol	1430	1000	70	53-109
	3&4-Methylphenol	1430	1030	72	52-111
88-75-5	2-Nitrophenol	1430	1080	76	52-117
100-02-7	4-Nitrophenol	1430	902	63	17-136
87-86-5	Pentachlorophenol	1430	995	70	18-125
108-95-2	Phenol	1430	926	65	48-108
58-90-2	2,3,4,6-Tetrachlorophenol	1430	1190	83	45-118
95-95-4	2,4,5-Trichlorophenol	1430	1220	85	57-114
88-06-2	2,4,6-Trichlorophenol	1430	1200	84	57-115
83-32-9	Acenaphthene	1430	1220	85	54-113
208-96-8	Acenaphthylene	1430	1180	83	48-107
98-86-2	Acetophenone	1430	1210	85	54-115
62-53-3	Aniline	1430	1240	87	6-92
120-12-7	Anthracene	1430	1280	90	55-120
1912-24-9	Atrazine	1430	1380	97	49-121
92-87-5	Benzidine	1430	1120	78	1-80
56-55-3	Benzo(a)anthracene	1430	1200	84	52-121
50-32-8	Benzo(a)pyrene	1430	1270	89	52-122
205-99-2	Benzo(b)fluoranthene	1430	1300	91	42-128
191-24-2	Benzo(g,h,i)perylene	1430	1610	113	51-120
207-08-9	Benzo(k)fluoranthene	1430	1200	84	47-132
85-68-7	Butyl benzyl phthalate	1430	1110	78	52-127
100-51-6	Benzyl Alcohol	1430	1170	82	40-121
92-52-4	1,1'-Biphenyl	1430	1230	86	58-114
106-47-8	4-Chloroaniline	1430	1030	72	16-93
86-74-8	Carbazole	1430	1230	86	55-122
218-01-9	Chrysene	1430	1200	84	53-120
111-44-4	bis(2-Chloroethyl)ether	1430	1090	76	40-127
108-60-1	bis(2-Chloroisopropyl)ether	1430	1160	81	47-111
7005-72-3	4-Chlorophenyl phenyl ether	1430	1310	92	52-120

Blank Spike Summary

Page 2 of 3

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-BS1	3P617.D	1	10/26/10	KLS	10/25/10	OP46332	E3P29

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	1430	1110	78	47-111
122-66-7	1,2-Diphenylhydrazine	1430	1150	81	49-133
541-73-1	1,3-Dichlorobenzene	1430	1130	79	45-110
106-46-7	1,4-Dichlorobenzene	1430	1120	78	46-110
121-14-2	2,4-Dinitrotoluene	1430	1280	90	51-125
606-20-2	2,6-Dinitrotoluene	1430	1290	90	54-126
91-94-1	3,3'-Dichlorobenzidine	1430	1420	99	28-113
53-70-3	Dibenzo(a,h)anthracene	1430	1620	113	51-125
132-64-9	Dibenzofuran	1430	1270	89	54-118
84-74-2	Di-n-butyl phthalate	1430	1190	83	55-122
117-84-0	Di-n-octyl phthalate	1430	1170	82	50-132
84-66-2	Diethyl phthalate	1430	1260	88	53-118
117-81-7	bis(2-Ethylhexyl)phthalate	1430	1080	76	51-130
206-44-0	Fluoranthene	1430	1280	90	50-119
86-73-7	Fluorene	1430	1320	92	54-119
118-74-1	Hexachlorobenzene	1430	1360	95	51-123
87-68-3	Hexachlorobutadiene	1430	1270	89	40-130
77-47-4	Hexachlorocyclopentadiene	2860	3360	118	24-145
67-72-1	Hexachloroethane	1430	1130	79	41-118
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1690	118	51-124
78-59-1	Isophorone	1430	1280	90	50-117
91-57-6	2-Methylnaphthalene	1430	1140	80	44-127
88-74-4	2-Nitroaniline	1430	1150	81	44-137
99-09-2	3-Nitroaniline	1430	1060	74	33-106
100-01-6	4-Nitroaniline	1430	1080	76	44-122
91-20-3	Naphthalene	1430	1200	84	49-112
98-95-3	Nitrobenzene	1430	1240	87	48-118
62-75-9	n-Nitrosodimethylamine	1430	1100	77	27-129
621-64-7	N-Nitroso-di-n-propylamine	1430	1110	78	46-121
86-30-6	N-Nitrosodiphenylamine	1430	1250	88	59-130
85-01-8	Phenanthrene	1430	1260	88	53-118
129-00-0	Pyrene	1430	1200	84	52-120
110-86-1	Pyridine	1430	1070	75	25-103
91-22-5	Quinoline	1430	1330	93	58-120
95-94-3	1,2,4,5-Tetrachlorobenzene	1430	1120	78	36-152
120-82-1	1,2,4-Trichlorobenzene	1430	1250	88	46-118

Blank Spike Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-BS1	3P617.D	1	10/26/10	KLS	10/25/10	OP46332	E3P29

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	82%	30-109%
4165-62-2	Phenol-d5	77%	28-108%
118-79-6	2,4,6-Tribromophenol	100%	28-125%
4165-60-0	Nitrobenzene-d5	91%	28-113%
321-60-8	2-Fluorobiphenyl	94%	38-107%
1718-51-0	Terphenyl-d14	97%	31-116%

7.2.2

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Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-MS	F92527.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
OP46278-MSD	F92528.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
JA59086-1	F92526.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Compound	JA59086-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		59.9	43.8	73	43.4	72	1	1-136/40
95-57-8	2-Chlorophenol	ND		59.9	48.3	81	48.0	80	1	32-102/33
59-50-7	4-Chloro-3-methyl phenol	ND		59.9	56.7	95	55.9	93	1	38-126/30
120-83-2	2,4-Dichlorophenol	ND		59.9	48.1	80	47.0	78	2	33-116/34
105-67-9	2,4-Dimethylphenol	ND		59.9	60.6	101	59.2	99	2	30-128/32
51-28-5	2,4-Dinitrophenol	ND		120	114	95	111	93	3	20-151/29
95-48-7	2-Methylphenol	ND		59.9	53.0	89	51.9	87	2	26-111/33
	3&4-Methylphenol	ND		59.9	50.2	84	50.7	85	1	26-111/33
88-75-5	2-Nitrophenol	ND		59.9	54.9	92	53.4	89	3	29-116/35
100-02-7	4-Nitrophenol	ND		59.9	37.2	62	33.6	56	10	10-123/35
87-86-5	Pentachlorophenol	ND		59.9	56.4	94	53.0	89	6	34-133/26
108-95-2	Phenol	ND		59.9	36.8	61	37.9	63	3	14-85/37
58-90-2	2,3,4,6-Tetrachlorophenol	ND		59.9	45.7	76	44.4	74	3	45-123/26
95-95-4	2,4,5-Trichlorophenol	ND		59.9	50.0	84	48.5	81	3	44-121/26
88-06-2	2,4,6-Trichlorophenol	ND		59.9	48.2	80	46.7	78	3	41-119/28
83-32-9	Acenaphthene	ND		59.9	62.2	104	60.1	100	3	37-114/31
208-96-8	Acenaphthylene	ND		59.9	51.5	86	48.9	82	5	33-108/31
98-86-2	Acetophenone	ND		59.9	57.2	96	55.9	93	2	25-127/35
62-53-3	Aniline	ND		59.9	46.7	78	46.4	77	1	10-92/39
120-12-7	Anthracene	ND		59.9	65.1	109	62.3	104	4	48-125/26
1912-24-9	Atrazine	ND		59.9	62.6	105	62.0	104	1	40-133/27
92-87-5	Benzidine	ND		59.9	ND	0* a	ND	0* a	nc	1-112/41
56-55-3	Benzo(a)anthracene	ND		59.9	56.1	94	52.9	88	6	48-127/26
50-32-8	Benzo(a)pyrene	ND		59.9	59.2	99	57.4	96	3	48-128/26
205-99-2	Benzo(b)fluoranthene	ND		59.9	60.1	100	60.3	101	0	41-133/29
191-24-2	Benzo(g,h,i)perylene	ND		59.9	58.1	97	56.1	94	4	42-134/27
207-08-9	Benzo(k)fluoranthene	ND		59.9	62.3	104	57.0	95	9	45-133/30
85-68-7	Butyl benzyl phthalate	ND		59.9	61.8	103	58.1	97	6	47-137/27
100-51-6	Benzyl Alcohol	ND		59.9	58.1	97	57.3	96	1	23-113/35
92-52-4	1,1'-Biphenyl	ND		59.9	50.2	84	49.8	83	1	36-113/32
106-47-8	4-Chloroaniline	ND		59.9	45.4	76	44.6	74	2	22-98/36
86-74-8	Carbazole	ND		59.9	56.3	94	54.9	92	3	54-127/26
218-01-9	Chrysene	ND		59.9	64.7	108	62.5	104	3	49-125/25
111-44-4	bis(2-Chloroethyl)ether	ND		59.9	49.7	83	49.3	82	1	24-124/34
108-60-1	bis(2-Chloroisopropyl)ether	ND		59.9	52.3	87	50.2	84	4	31-104/35
7005-72-3	4-Chlorophenyl phenyl ether	ND		59.9	53.3	89	52.2	87	2	42-119/28

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-MS	F92527.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
OP46278-MSD	F92528.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
JA59086-1	F92526.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Compound	JA59086-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		59.9	40.1	67	39.2	65	2	19-92/36
122-66-7	1,2-Diphenylhydrazine	ND		59.9	56.9	95	55.2	92	3	42-131/29
541-73-1	1,3-Dichlorobenzene	ND		59.9	37.6	63	36.6	61	3	20-84/37
106-46-7	1,4-Dichlorobenzene	ND		59.9	38.0	63	37.3	62	2	20-86/36
121-14-2	2,4-Dinitrotoluene	ND		59.9	61.4	103	59.8	100	3	45-129/28
606-20-2	2,6-Dinitrotoluene	ND		59.9	61.4	103	59.8	100	3	46-132/29
91-94-1	3,3'-Dichlorobenzidine	ND		59.9	22.8	38	23.3	39	2	17-119/36
53-70-3	Dibenzo(a,h)anthracene	ND		59.9	61.6	103	59.4	99	4	45-136/27
132-64-9	Dibenzofuran	0.99	J	59.9	55.1	90	52.8	87	4	44-114/30
84-74-2	Di-n-butyl phthalate	ND		59.9	58.3	97	56.7	95	3	49-134/26
117-84-0	Di-n-octyl phthalate	ND		59.9	67.4	113	64.4	108	5	46-140/25
84-66-2	Diethyl phthalate	ND		59.9	54.7	91	53.4	89	2	46-123/27
117-81-7	bis(2-Ethylhexyl)phthalate	ND		59.9	61.5	103	59.4	99	3	49-141/27
206-44-0	Fluoranthene	ND		59.9	54.2	91	54.6	91	1	46-127/27
86-73-7	Fluorene	0.98	J	59.9	55.1	90	53.6	88	3	44-121/29
118-74-1	Hexachlorobenzene	ND		59.9	56.3	94	55.4	93	2	46-120/27
87-68-3	Hexachlorobutadiene	ND		59.9	39.3	66	37.6	63	4	15-99/39
77-47-4	Hexachlorocyclopentadiene	ND		120	132	110	128	107	3	4-124/39
67-72-1	Hexachloroethane	ND		59.9	34.1	57	34.3	57	1	16-86/39
193-39-5	Indeno(1,2,3-cd)pyrene	ND		59.9	61.4	103	57.9	97	6	43-137/28
78-59-1	Isophorone	ND		59.9	58.1	97	56.3	94	3	33-117/36
91-57-6	2-Methylnaphthalene	ND		59.9	45.6	76	45.6	76	0	22-117/37
88-74-4	2-Nitroaniline	ND		59.9	58.3	97	56.5	94	3	37-135/29
99-09-2	3-Nitroaniline	ND		59.9	44.7	75	43.7	73	2	34-115/28
100-01-6	4-Nitroaniline	ND		59.9	53.9	90	51.9	87	4	36-128/30
91-20-3	Naphthalene	ND		59.9	46.7	78	45.1	75	3	22-106/35
98-95-3	Nitrobenzene	ND		59.9	54.8	92	53.9	90	2	30-116/37
62-75-9	n-Nitrosodimethylamine	ND		59.9	35.9	60	39.5	66	10	12-92/40
621-64-7	N-Nitroso-di-n-propylamine	ND		59.9	52.5	88	52.2	87	1	32-118/35
86-30-6	N-Nitrosodiphenylamine	ND		59.9	58.0	97	55.7	93	4	42-145/27
85-01-8	Phenanthrene	ND		59.9	64.1	107	60.6	101	6	45-127/27
129-00-0	Pyrene	ND		59.9	54.8	92	53.4	89	3	45-129/26
110-86-1	Pyridine	ND		59.9	28.9	48	31.5	53	9	15-80/41
91-22-5	Quinoline	ND		59.9	61.8	103	59.6	100	4	36-122/34
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		59.9	55.5	93	53.5	89	4	23-131/18
120-82-1	1,2,4-Trichlorobenzene	ND		59.9	42.8	71	41.4	69	3	23-97/37

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46278-MS	F92527.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
OP46278-MSD	F92528.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
JA59086-1	F92526.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-5, JA58900-6

CAS No.	Surrogate Recoveries	MS	MSD	JA59086-1	Limits
367-12-4	2-Fluorophenol	66%	67%	29%	13-68%
4165-62-2	Phenol-d5	62%* b	64%* b	20%	10-49%
118-79-6	2,4,6-Tribromophenol	97%	94%	66%	37-130%
4165-60-0	Nitrobenzene-d5	99%	98%	89%	25-112%
321-60-8	2-Fluorobiphenyl	93%	90%	91%	31-106%
1718-51-0	Terphenyl-d14	99%	95%	90%	14-122%

(a) Outside control limits due to matrix interference.

(b) Outside of in house control limits, but within reasonable method recovery limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-MS	3P706.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
OP46332-MSD	3P707.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
JA58900-3	3P705.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	JA58900-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		1910	1230	64	329	17	116* a	1-146/41
95-57-8	2-Chlorophenol	ND		1910	1040	54	270	14* b	118* a	41-106/24
59-50-7	4-Chloro-3-methyl phenol	ND		1910	1190	62	337	18* b	112* a	39-122/27
120-83-2	2,4-Dichlorophenol	ND		1910	1160	61	307	16* b	116* a	40-115/27
105-67-9	2,4-Dimethylphenol	ND		1910	1160	61	242	13* b	131* a	40-130/27
51-28-5	2,4-Dinitrophenol	ND		3820	2560	67	727	19	112* a	1-121/39
95-48-7	2-Methylphenol	ND		1910	985	52	257	13* b	117* a	38-112/26
	3&4-Methylphenol	ND		1910	970	51	292	15* b	107* a	37-114/27
88-75-5	2-Nitrophenol	ND		1910	1080	57	273	14* b	119* a	28-118/28
100-02-7	4-Nitrophenol	ND		1910	600	31	340	18	55* a	13-136/39
87-86-5	Pentachlorophenol	ND		1910	889	47	474	25	61* a	13-124/28
108-95-2	Phenol	ND		1910	952	50	244	13* b	118* a	35-109/27
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1910	1130	59	334	17* b	109* a	36-116/29
95-95-4	2,4,5-Trichlorophenol	ND		1910	1180	62	323	17* b	114* a	43-114/26
88-06-2	2,4,6-Trichlorophenol	ND		1910	1200	63	296	15* b	121* a	43-117/26
83-32-9	Acenaphthene	ND		1910	1100	58	289	15* b	117* a	38-116/26
208-96-8	Acenaphthylene	ND		1910	1070	56	290	15* b	115* a	34-111/24
98-86-2	Acetophenone	ND		1910	1110	58	299	16* b	115* a	35-119/26
62-53-3	Aniline	ND		1910	960	50	247	13	118* a	1-91/36
120-12-7	Anthracene	ND		1910	1200	63	370	19* b	106* a	35-127/28
1912-24-9	Atrazine	ND		1910	1390	73	463	24* b	100* a	33-121/27
92-87-5	Benzidine	ND		1910	ND	0* b	185	10	200* a	1-100/42
56-55-3	Benzo(a)anthracene	ND		1910	1190	62	364	19* b	106* a	26-135/30
50-32-8	Benzo(a)pyrene	ND		1910	1120	59	334	17* b	108* a	30-131/30
205-99-2	Benzo(b)fluoranthene	ND		1910	1100	58	355	19* b	102* a	24-135/33
191-24-2	Benzo(g,h,i)perylene	ND		1910	1220	64	376	20* b	106* a	30-129/29
207-08-9	Benzo(k)fluoranthene	ND		1910	1240	65	335	18* b	115* a	27-131/33
85-68-7	Butyl benzyl phthalate	ND		1910	1060	56	326	17* b	106* a	38-130/27
100-51-6	Benzyl Alcohol	ND		1910	1050	55	259	14* b	121* a	30-119/28
92-52-4	1,1'-Biphenyl	ND		1910	1070	56	264	14* b	121* a	42-118/25
106-47-8	4-Chloroaniline	ND		1910	930	49	296	15	103* a	14-91/34
86-74-8	Carbazole	ND		1910	1160	61	366	19* b	104* a	40-126/26
218-01-9	Chrysene	ND		1910	1280	67	401	21* b	105* a	27-135/30
111-44-4	bis(2-Chloroethyl)ether	ND		1910	939	49	269	14* b	111* a	29-124/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		1910	1120	59	290	15* b	118* a	34-110/24
7005-72-3	4-Chlorophenyl phenyl ether	ND		1910	1310	69	360	19* b	114* a	40-119/24

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-MS	3P706.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
OP46332-MSD	3P707.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
JA58900-3	3P705.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Compound	JA58900-3 ug/kg	Spike Q	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		1910	1060	56	272	14* b	118* a 33-110/24
122-66-7	1,2-Diphenylhydrazine	ND		1910	908	48	257	13* b	112* a 37-129/26
541-73-1	1,3-Dichlorobenzene	ND		1910	1060	56	261	14* b	121* a 34-104/24
106-46-7	1,4-Dichlorobenzene	ND		1910	1040	54	278	15* b	116* a 34-105/23
121-14-2	2,4-Dinitrotoluene	ND		1910	1260	66	366	19* b	110* a 31-123/28
606-20-2	2,6-Dinitrotoluene	ND		1910	1260	66	350	18* b	113* a 35-128/27
91-94-1	3,3'-Dichlorobenzidine	ND		1910	1330	70	500	26	91* a 12-113/35
53-70-3	Dibenzo(a,h)anthracene	ND		1910	1310	69	403	21* b	106* a 35-129/28
132-64-9	Dibenzofuran	ND		1910	1170	61	311	16* b	116* a 36-125/26
84-74-2	Di-n-butyl phthalate	ND		1910	1090	57	344	18* b	104* a 39-124/25
117-84-0	Di-n-octyl phthalate	ND		1910	1100	58	342	18* b	105* a 33-135/27
84-66-2	Diethyl phthalate	ND		1910	1180	62	348	18* b	109* a 41-116/25
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1910	1180	62	371	19* b	104* a 35-140/30
206-44-0	Fluoranthene	ND		1910	1190	62	374	20* b	104* a 24-133/34
86-73-7	Fluorene	ND		1910	1220	64	331	17* b	115* a 37-124/27
118-74-1	Hexachlorobenzene	ND		1910	1340	70	384	20* b	111* a 40-116/24
87-68-3	Hexachlorobutadiene	ND		1910	1340	70	334	17* b	120* a 31-122/26
77-47-4	Hexachlorocyclopentadiene	ND		3820	2790	73	767	20	114* a 1-127/37
67-72-1	Hexachloroethane	ND		1910	1130	59	288	15* b	119* a 26-108/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1910	1230	64	353	18* b	111* a 32-130/29
78-59-1	Isophorone	ND		1910	1110	58	304	16* b	114* a 35-117/25
91-57-6	2-Methylnaphthalene	ND		1910	1100	58	311	16* b	112* a 29-130/28
88-74-4	2-Nitroaniline	ND		1910	939	49	239	13* b	119* a 33-133/30
99-09-2	3-Nitroaniline	ND		1910	1030	54	332	17* b	102* a 24-108/31
100-01-6	4-Nitroaniline	ND		1910	958	50	340	18* b	95* a 25-117/31
91-20-3	Naphthalene	ND		1910	1110	58	290	15* b	117* a 32-116/28
98-95-3	Nitrobenzene	ND		1910	1170	61	292	15* b	120* a 32-120/26
62-75-9	n-Nitrosodimethylamine	ND		1910	689	36	208	11* b	107* a 17-118/29
621-64-7	N-Nitroso-di-n-propylamine	ND		1910	968	51	247	13* b	119* a 30-124/25
86-30-6	N-Nitrosodiphenylamine	ND		1910	1190	62	350	18* b	109* a 38-143/27
85-01-8	Phenanthrene	ND		1910	1200	63	367	19* b	106* a 26-135/33
129-00-0	Pyrene	ND		1910	1180	62	347	18* b	109* a 23-139/33
110-86-1	Pyridine	ND		1910	806	42	206	11*	119* 15-95/33
91-22-5	Quinoline	ND		1910	1260	66	361	19*	111* 37-123/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1910	1060	56	259	14* b	121* a 24-146/19
120-82-1	1,2,4-Trichlorobenzene	ND		1910	1200	63	312	16*	117* 36-113/24

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP46332-MS	3P706.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
OP46332-MSD	3P707.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
JA58900-3	3P705.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33

The QC reported here applies to the following samples:

Method: SW846 8270C

JA58900-1, JA58900-2, JA58900-3, JA58900-4, JA58900-7, JA58900-8, JA58900-9, JA58900-10, JA58900-11, JA58900-12, JA58900-14

CAS No.	Surrogate Recoveries	MS	MSD	JA58900-3	Limits
367-12-4	2-Fluorophenol	57%	14%* b	49%	30-109%
4165-62-2	Phenol-d5	52%	13%* b	39%	28-108%
118-79-6	2,4,6-Tribromophenol	77%	21%* b	67%	28-125%
4165-60-0	Nitrobenzene-d5	59%	14%* b	48%	28-113%
321-60-8	2-Fluorobiphenyl	66%	17%* b	55%	38-107%
1718-51-0	Terphenyl-d14	78%	23%* b	70%	31-116%

(a) Analytical precision exceeds standard laboratory control limits.

(b) Outside of in house control limits.

7.3.2
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P27-DFTPP

Injection Date: 10/25/10

Lab File ID: 3P575.D

Injection Time: 12:08

Instrument ID: GCMS3P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	10610	45.8	Pass
68	Less than 2.0% of mass 69	162	0.70 (1.14) ^a	Pass
69	Mass 69 relative abundance	14187	61.3	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	12640	54.6	Pass
197	Less than 1.0% of mass 198	216	0.93	Pass
198	Base peak, 100% relative abundance	23142	100.0	Pass
199	5.0 - 9.0% of mass 198	1537	6.64	Pass
275	10.0 - 30.0% of mass 198	4736	20.5	Pass
365	1.0 - 100.0% of mass 198	778	3.36	Pass
441	Present, but less than mass 443	2999	13.0 (79.5) ^b	Pass
442	40.0 - 100.0% of mass 198	19094	82.5	Pass
443	17.0 - 23.0% of mass 442	3772	16.3 (19.8) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P27-IC27	3P576.D	10/25/10	12:53	00:45	Initial cal 50
E3P27-IC27	3P577.D	10/25/10	13:26	01:18	Initial cal 100
E3P27-IC27	3P578.D	10/25/10	13:56	01:48	Initial cal 1
E3P27-IC27	3P579.D	10/25/10	14:27	02:19	Initial cal 80
E3P27-IC27	3P580.D	10/25/10	14:58	02:50	Initial cal 5
E3P27-ICC27	3P581.D	10/25/10	15:28	03:20	Initial cal 25
E3P27-IC27	3P582.D	10/25/10	15:59	03:51	Initial cal 2
E3P27-IC27	3P583.D	10/25/10	16:30	04:22	Initial cal 10

7.4.1
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P28-DFTPP

Injection Date: 10/25/10

Lab File ID: 3P593.D

Injection Time: 21:03

Instrument ID: GCMS3P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	10668	42.8	Pass
68	Less than 2.0% of mass 69	175	0.70 (1.19) ^a	Pass
69	Mass 69 relative abundance	14645	58.8	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	13153	52.8	Pass
197	Less than 1.0% of mass 198	224	0.90	Pass
198	Base peak, 100% relative abundance	24918	100.0	Pass
199	5.0 - 9.0% of mass 198	1655	6.64	Pass
275	10.0 - 30.0% of mass 198	5424	21.8	Pass
365	1.0 - 100.0% of mass 198	947	3.80	Pass
441	Present, but less than mass 443	3703	14.9 (88.1) ^b	Pass
442	40.0 - 100.0% of mass 198	23214	93.2	Pass
443	17.0 - 23.0% of mass 442	4205	16.9 (18.1) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P28-IC28	3P594.D	10/25/10	21:21	00:18	Initial cal 100
E3P28-IC28	3P595.D	10/25/10	21:52	00:49	Initial cal 80
E3P28-IC28	3P596.D	10/25/10	22:22	01:19	Initial cal 50
E3P28-ICC28	3P597.D	10/25/10	22:53	01:50	Initial cal 25
E3P28-IC28	3P598.D	10/25/10	23:24	02:21	Initial cal 10
E3P28-IC28	3P599.D	10/25/10	23:54	02:51	Initial cal 5
E3P28-IC28	3P600.D	10/26/10	00:25	03:22	Initial cal 2
E3P28-ICV27	3P602.D	10/26/10	01:26	04:23	Initial cal verification 50
E3P28-ICV27	3P603.D	10/26/10	01:56	04:53	Initial cal verification 50
E3P28-ICV28	3P603A.D	10/26/10	01:56	04:53	Initial cal verification 50
E3P28-ICV27	3P604.D	10/26/10	02:27	05:24	Initial cal verification 50
E3P28-ICV28	3P604A.D	10/26/10	02:27	05:24	Initial cal verification 50
E3P28-ICV27	3P605.D	10/26/10	02:57	05:54	Initial cal verification 50
E3P28-ICV28	3P605A.D	10/26/10	02:57	05:54	Initial cal verification 50
E3P28-ICV27	3P606.D	10/26/10	03:28	06:25	Initial cal verification 50

7.4.2
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P29-DFTPP

Injection Date: 10/26/10

Lab File ID: 3P607.D

Injection Time: 08:51

Instrument ID: GCMS3P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	8281	37.7	Pass
68	Less than 2.0% of mass 69	109	0.50 (0.96) ^a	Pass
69	Mass 69 relative abundance	11367	51.8	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	11454	52.2	Pass
197	Less than 1.0% of mass 198	197	0.90	Pass
198	Base peak, 100% relative abundance	21946	100.0	Pass
199	5.0 - 9.0% of mass 198	1510	6.88	Pass
275	10.0 - 30.0% of mass 198	4997	22.8	Pass
365	1.0 - 100.0% of mass 198	904	4.12	Pass
441	Present, but less than mass 443	3524	16.1 (85.9) ^b	Pass
442	40.0 - 100.0% of mass 198	21403	97.5	Pass
443	17.0 - 23.0% of mass 442	4104	18.7 (19.2) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P29-CC27	3P608.D	10/26/10	09:06	00:15	Continuing cal 50
E3P29-CC28	3P609.D	10/26/10	09:37	00:46	Continuing cal 50
E3P29-ICV27	3P610.D	10/26/10	10:45	01:54	Initial cal verification 50
OP46340-MB1	3P611.D	10/26/10	11:15	02:24	Method Blank
OP46340-BS1	3P612.D	10/26/10	11:46	02:55	Blank Spike
ZZZZZZ	3P613.D	10/26/10	12:16	03:25	(unrelated sample)
JA59553-2	3P614.D	10/26/10	12:47	03:56	(used for QC only; not part of job JA58900)
ZZZZZZ	3P615.D	10/26/10	13:17	04:26	(unrelated sample)
OP46332-MB1	3P616.D	10/26/10	13:48	04:57	Method Blank
OP46332-BS1	3P617.D	10/26/10	14:19	05:28	Blank Spike
ZZZZZZ	3P618.D	10/26/10	14:49	05:58	(unrelated sample)
ZZZZZZ	3P619.D	10/26/10	15:24	06:33	(unrelated sample)

7.4.3

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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P33-DFTPP

Injection Date: 11/01/10

Lab File ID: 3P692.D

Injection Time: 10:03

Instrument ID: GCMS3P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	8633	45.3	Pass
68	Less than 2.0% of mass 69	197	1.03 (1.69) ^a	Pass
69	Mass 69 relative abundance	11655	61.2	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	10879	57.1	Pass
197	Less than 1.0% of mass 198	134	0.70	Pass
198	Base peak, 100% relative abundance	19045	100.0	Pass
199	5.0 - 9.0% of mass 198	1303	6.84	Pass
275	10.0 - 30.0% of mass 198	4953	26.0	Pass
365	1.0 - 100.0% of mass 198	1025	5.38	Pass
441	Present, but less than mass 443	3012	15.8 (88.0) ^b	Pass
442	40.0 - 100.0% of mass 198	17706	93.0	Pass
443	17.0 - 23.0% of mass 442	3424	18.0 (19.3) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P33-CC27	3P693.D	11/01/10	10:51	00:48	Continuing cal 50
E3P33-CC28	3P694.D	11/01/10	11:20	01:17	Continuing cal 50
OP46389-MB2	3P695.D	11/01/10	11:50	01:47	Method Blank
OP46391-MB2	3P695.D	11/01/10	11:50	01:47	Method Blank
OP46389-LB3	3P696.D	11/01/10	12:20	02:17	Leachate Blank
OP46391-LB4	3P697.D	11/01/10	12:50	02:47	Leachate Blank
OP46389-BS2	3P698.D	11/01/10	13:20	03:17	Blank Spike
OP46391-BS2	3P698.D	11/01/10	13:20	03:17	Blank Spike
ZZZZZZ	3P699.D	11/01/10	13:49	03:46	(unrelated sample)
OP46340-MS	3P700.D	11/01/10	14:19	04:16	Matrix Spike
OP46340A-MS	3P700.D	11/01/10	14:19	04:16	Matrix Spike
OP46340-MSD	3P701.D	11/01/10	14:49	04:46	Matrix Spike Duplicate
OP46340A-MSD	3P701.D	11/01/10	14:49	04:46	Matrix Spike Duplicate
JA58900-3	3P705.D	11/01/10	16:47	06:44	BBNPP-R-C
ZZZZZZ	3P705R.D	11/01/10	16:47	06:44	(unrelated sample)
OP46332-MS	3P706.D	11/01/10	17:17	07:14	Matrix Spike
OP46332-MSD	3P707.D	11/01/10	17:47	07:44	Matrix Spike Duplicate
ZZZZZZ	3P708.D	11/01/10	18:16	08:13	(unrelated sample)
ZZZZZZ	3P709.D	11/01/10	18:46	08:43	(unrelated sample)

7.4.4
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P33-DFTPP

Injection Date: 11/01/10

Lab File ID: 3P692.D

Injection Time: 10:03

Instrument ID: GCMS3P

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3P710.D	11/01/10	19:15	09:12	(unrelated sample)
ZZZZZZ	3P713.D	11/01/10	20:44	10:41	(unrelated sample)
ZZZZZZ	3P714.D	11/01/10	21:13	11:10	(unrelated sample)

7.4.4

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Instrument Performance Check (DFTPP)

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Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** E3P34-DFTPP**Injection Date:** 11/02/10**Lab File ID:** 3P715.D**Injection Time:** 10:23**Instrument ID:** GCMS3P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	10006	40.0	Pass
68	Less than 2.0% of mass 69	174	0.70 (1.28) ^a	Pass
69	Mass 69 relative abundance	13543	54.2	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	13991	56.0	Pass
197	Less than 1.0% of mass 198	200	0.80	Pass
198	Base peak, 100% relative abundance	24992	100.0	Pass
199	5.0 - 9.0% of mass 198	1710	6.84	Pass
275	10.0 - 30.0% of mass 198	5996	24.0	Pass
365	1.0 - 100.0% of mass 198	1208	4.83	Pass
441	Present, but less than mass 443	3832	15.3 (82.6) ^b	Pass
442	40.0 - 100.0% of mass 198	24209	96.9	Pass
443	17.0 - 23.0% of mass 442	4637	18.6 (19.2) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P34-CC27	3P716.D	11/02/10	10:34	00:11	Continuing cal 25
E3P34-CC28	3P717.D	11/02/10	11:04	00:41	Continuing cal 50
OP46463-MB1	3P718.D	11/02/10	11:34	01:11	Method Blank
OP46463-BS1	3P719.D	11/02/10	12:05	01:42	Blank Spike
ZZZZZZ	3P720.D	11/02/10	12:35	02:12	(unrelated sample)
JA60201-2	3P721.D	11/02/10	13:05	02:42	(used for QC only; not part of job JA58900)
ZZZZZZ	3P722.D	11/02/10	13:34	03:11	(unrelated sample)
ZZZZZZ	3P723.D	11/02/10	14:04	03:41	(unrelated sample)
ZZZZZZ	3P724.D	11/02/10	14:33	04:10	(unrelated sample)
OP46463-MS	3P725.D	11/02/10	15:03	04:40	Matrix Spike
OP46463A-MS	3P725.D	11/02/10	15:03	04:40	Matrix Spike
OP46463-MSD	3P726.D	11/02/10	15:33	05:10	Matrix Spike Duplicate
OP46463A-MSD	3P726.D	11/02/10	15:33	05:10	Matrix Spike Duplicate
ZZZZZZ	3P727.D	11/02/10	16:02	05:39	(unrelated sample)
JA58900-1	3P728.D	11/02/10	16:32	06:09	BBNPP-D2
ZZZZZZ	3P728R.D	11/02/10	16:32	06:09	(unrelated sample)
JA58900-7	3P729.D	11/02/10	17:02	06:39	BBNPP-CW4-C
ZZZZZZ	3P729R.D	11/02/10	17:02	06:39	(unrelated sample)
JA58900-8	3P730.D	11/02/10	17:31	07:08	BBNPP-CW7-C

7.4.5
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P34-DFTPP

Injection Date: 11/02/10

Lab File ID: 3P715.D

Injection Time: 10:23

Instrument ID: GCMS3P

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3P730R.D	11/02/10	17:31	07:08	(unrelated sample)
JA58900-9	3P731.D	11/02/10	18:01	07:38	BBNPP-CW10-C
ZZZZZZ	3P731R.D	11/02/10	18:01	07:38	(unrelated sample)
JA58900-12	3P732.D	11/02/10	18:30	08:07	BBNPP-CW19-C
ZZZZZZ	3P732R.D	11/02/10	18:30	08:07	(unrelated sample)
JA58900-14	3P733.D	11/02/10	19:00	08:37	BBNPP-D1-CFD
ZZZZZZ	3P733R.D	11/02/10	19:00	08:37	(unrelated sample)
JA58900-2	3P734.D	11/02/10	19:30	09:07	BBNPP-D1-C
ZZZZZZ	3P734R.D	11/02/10	19:30	09:07	(unrelated sample)
JA58900-4	3P735.D	11/02/10	19:59	09:36	BBNPP-CW22-C
ZZZZZZ	3P735R.D	11/02/10	19:59	09:36	(unrelated sample)
JA58900-10	3P736.D	11/02/10	20:28	10:05	BBNPP-CW13-C
ZZZZZZ	3P736R.D	11/02/10	20:28	10:05	(unrelated sample)
JA58900-11	3P737.D	11/02/10	20:58	10:35	BBNPP-CW16-C
ZZZZZZ	3P737R.D	11/02/10	20:58	10:35	(unrelated sample)

7.4.5

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Instrument Performance Check (DFTPP)

Page 1 of 1

Job Number: JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** EF4329-DFTPP**Injection Date:** 10/20/10**Lab File ID:** F92479.D**Injection Time:** 07:58**Instrument ID:** GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	25397	30.4	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	30033	35.9	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	36405	43.5	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	83637	100.0	Pass
199	5.0 - 9.0% of mass 198	5517	6.60	Pass
275	10.0 - 30.0% of mass 198	18232	21.8	Pass
365	1.0 - 100.0% of mass 198	2054	2.46	Pass
441	Present, but less than mass 443	11098	13.3 (83.0) ^b	Pass
442	40.0 - 100.0% of mass 198	66853	79.9	Pass
443	17.0 - 23.0% of mass 442	13368	16.0 (20.0) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF4329-ICC4329	F92480.D	10/20/10	08:47	00:49	Initial cal 50
EF4329-IC4329	F92481.D	10/20/10	09:53	01:55	Initial cal 100
EF4329-IC4329	F92482.D	10/20/10	10:17	02:19	Initial cal 1
EF4329-IC4329	F92483.D	10/20/10	10:41	02:43	Initial cal 2
EF4329-IC4329	F92484.D	10/20/10	11:06	03:08	Initial cal 5
EF4329-IC4329	F92485.D	10/20/10	11:30	03:32	Initial cal 10
EF4329-IC4329	F92486.D	10/20/10	11:54	03:56	Initial cal 25
EF4329-IC4329	F92487.D	10/20/10	12:18	04:20	Initial cal 80

7.4.6
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: EF4330-DFTPP

Injection Date: 10/20/10

Lab File ID: F92488.D

Injection Time: 12:55

Instrument ID: GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	27148	33.8	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	30180	37.5	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	36352	45.2	Pass
197	Less than 1.0% of mass 198	151	0.19	Pass
198	Base peak, 100% relative abundance	80400	100.0	Pass
199	5.0 - 9.0% of mass 198	5834	7.26	Pass
275	10.0 - 30.0% of mass 198	18062	22.5	Pass
365	1.0 - 100.0% of mass 198	2129	2.65	Pass
441	Present, but less than mass 443	10242	12.7 (87.2) ^b	Pass
442	40.0 - 100.0% of mass 198	60893	75.7	Pass
443	17.0 - 23.0% of mass 442	11747	14.6 (19.3) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF4330-ICC4330	F92489.D	10/20/10	13:08	00:13	Initial cal 50
EF4330-IC4330	F92490.D	10/20/10	13:33	00:38	Initial cal 1
EF4330-IC4330	F92491.D	10/20/10	13:57	01:02	Initial cal 2
EF4330-IC4330	F92492.D	10/20/10	14:22	01:27	Initial cal 5
EF4330-IC4330	F92493.D	10/20/10	14:46	01:51	Initial cal 10
EF4330-IC4330	F92494.D	10/20/10	15:10	02:15	Initial cal 25
EF4330-IC4330	F92495.D	10/20/10	15:35	02:40	Initial cal 80
EF4330-IC4330	F92496.D	10/20/10	15:59	03:04	Initial cal 100
EF4330-ICV4330	F92497A.D	10/20/10	16:24	03:29	Initial cal verification 50
EF4330-ICV4329	F92497.D	10/20/10	16:24	03:29	Initial cal verification 50
EF4330-ICV4330	F92498A.D	10/20/10	16:48	03:53	Initial cal verification 50
EF4330-ICV4329	F92498.D	10/20/10	16:48	03:53	Initial cal verification 50
EF4330-ICV4329	F92499.D	10/20/10	17:13	04:18	Initial cal verification 50
EF4330-ICV4329	F92500.D	10/20/10	17:37	04:42	Initial cal verification 50
EF4330-ICV4329	F92501.D	10/20/10	18:01	05:06	Initial cal verification 50
EF4330-ICV4330	F92501A.D	10/20/10	18:01	05:06	Initial cal verification 50

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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: EF4333-DFTPP

Injection Date: 10/21/10

Lab File ID: F92521.D

Injection Time: 15:14

Instrument ID: GCMSF

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	27972	32.6	Pass
68	Less than 2.0% of mass 69	213	0.25 (0.67) ^a	Pass
69	Mass 69 relative abundance	31978	37.2	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	37829	44.1	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	85850	100.0	Pass
199	5.0 - 9.0% of mass 198	6057	7.06	Pass
275	10.0 - 30.0% of mass 198	19675	22.9	Pass
365	1.0 - 100.0% of mass 198	2572	3.00	Pass
441	Present, but less than mass 443	12286	14.3 (84.0) ^b	Pass
442	40.0 - 100.0% of mass 198	74437	86.7	Pass
443	17.0 - 23.0% of mass 442	14633	17.0 (19.7) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF4333-CC4329	F92522.D	10/21/10	15:26	00:12	Continuing cal 25
EF4333-CC4330	F92523.D	10/21/10	15:50	00:36	Continuing cal 25
OP46278-MB1	F92524.D	10/21/10	18:22	03:08	Method Blank
OP46278-BS1	F92525.D	10/21/10	18:46	03:32	Blank Spike
JA58900-5	F92534.D	10/21/10	19:11	03:57	BBNPP-C-EB
ZZZZZZ	F92534A.D	10/21/10	19:11	03:57	(unrelated sample)
JA58900-6	F92535.D	10/21/10	19:35	04:21	BBNPP-PB
ZZZZZZ	F92535A.D	10/21/10	19:35	04:21	(unrelated sample)
JA59086-1	F92526.D	10/21/10	20:00	04:46	(used for QC only; not part of job JA58900)
OP46278-MS	F92527.D	10/21/10	20:25	05:11	Matrix Spike
OP46278A-MS	F92527.D	10/21/10	20:25	05:11	Matrix Spike
OP46278-MSD	F92528.D	10/21/10	20:49	05:35	Matrix Spike Duplicate
OP46278A-MSD	F92528.D	10/21/10	20:49	05:35	Matrix Spike Duplicate
ZZZZZZ	F92529.D	10/21/10	21:14	06:00	(unrelated sample)
ZZZZZZ	F92530.D	10/21/10	21:38	06:24	(unrelated sample)
ZZZZZZ	F92531.D	10/21/10	22:03	06:49	(unrelated sample)
ZZZZZZ	F92532.D	10/21/10	22:27	07:13	(unrelated sample)
ZZZZZZ	F92533.D	10/21/10	22:51	07:37	(unrelated sample)
ZZZZZZ	F92536.D	10/21/10	23:16	08:02	(unrelated sample)

7.4.8
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Instrument Performance Check (DFTPP)

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: EF4333-DFTPP

Injection Date: 10/21/10

Lab File ID: F92521.D

Injection Time: 15:14

Instrument ID: GCMSF

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F92537.D	10/21/10	23:41	08:27	(unrelated sample)
ZZZZZZ	F92538.D	10/22/10	00:06	08:52	(unrelated sample)

7.4.8

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Semivolatile Internal Standard Area Summary

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Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P29-CC27	Injection Date:	10/26/10
Lab File ID:	3P608.D	Injection Time:	09:06
Instrument ID:	GCMS3P	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	94158	7.01	328668	9.39	180701	12.87	272525	15.79	265594	19.95	151628	21.79
Upper Limit ^a	188316	7.51	657336	9.89	361402	13.37	545050	16.29	531188	20.45	303256	22.29
Lower Limit ^b	47079	6.51	164334	8.89	90351	12.37	136263	15.29	132797	19.45	75814	21.29

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP46340-MB1	60980	7.02	216394	9.39	116931	12.87	187764	15.79	183524	19.95	127127	21.79
OP46340-BS1	57234	7.02	197911	9.39	105121	12.87	164514	15.79	163725	19.95	94387	21.79
ZZZZZZ	64350	7.02	237204	9.39	126301	12.87	202805	15.79	198840	19.95	137780	21.79
JA59553-2	54248	7.02	202047	9.39	109869	12.87	175962	15.79	169583	19.95	116903	21.79
ZZZZZZ	56468	7.02	202752	9.39	107640	12.87	171634	15.79	165551	19.95	114940	21.79
OP46332-MB1	72359	7.01	265944	9.39	139284	12.87	212664	15.79	198698	19.95	136320	21.79
OP46332-BS1	63800	7.02	220828	9.39	115538	12.87	175035	15.79	167290	19.95	91850	21.79
ZZZZZZ	57697	7.02	139509*	9.39	44664*	12.88	58435*	15.81	47598*	19.96	37665*	21.80
ZZZZZZ	59868	7.02	186566	9.39	56406*	12.87	67479*	15.79	48980*	19.95	42350*	21.79

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P33-CC27	Injection Date:	11/01/10
Lab File ID:	3P693.D	Injection Time:	10:51
Instrument ID:	GCMS3P	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	96036	7.00	367965	9.38	218844	12.86	326016	15.78	278288	19.95	103092	21.79
Upper Limit ^a	192072	7.50	735930	9.88	437688	13.36	652032	16.28	556576	20.45	206184	22.29
Lower Limit ^b	48018	6.50	183983	8.88	109422	12.36	163008	15.28	139144	19.45	51546	21.29

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP46389-MB2	107184	7.00	404539	9.37	231844	12.85	370043	15.77	329575	19.94	156904	21.78
OP46391-MB2	107184	7.00	404539	9.37	231844	12.85	370043	15.77	329575	19.94	156904	21.78
OP46389-LB3	96681	7.00	363416	9.37	210956	12.85	340293	15.77	317287	19.94	159135	21.78
OP46391-LB4	106132	7.00	387803	9.37	230147	12.85	361603	15.77	338071	19.94	178322	21.79
OP46389-BS2	99210	6.99	363814	9.37	205430	12.85	330465	15.77	308813	19.94	155538	21.79
OP46391-BS2	99210	6.99	363814	9.37	205430	12.85	330465	15.77	308813	19.94	155538	21.79
ZZZZZZ	94586	7.00	349000	9.37	200816	12.85	324725	15.76	327472	19.94	186149	21.78
OP46340-MS	105107	6.99	399255	9.37	227899	12.85	356334	15.77	349912	19.94	171195	21.78
OP46340A-MS	105107	6.99	399255	9.37	227899	12.85	356334	15.77	349912	19.94	171195	21.78
OP46340-MSD	115237	6.99	440526	9.37	247113	12.85	390579	15.77	388171	19.94	193705	21.79
OP46340A-MSD	115237	6.99	440526	9.37	247113	12.85	390579	15.77	388171	19.94	193705	21.79
JA58900-3	109369	6.99	398160	9.37	226269	12.84	319569	15.76	317183	19.94	191084	21.78
ZZZZZZ												
OP46332-MS	94888	6.99	339370	9.37	190023	12.85	290378	15.76	268456	19.94	153889	21.78
OP46332-MSD	89816	6.99	321918	9.37	190901	12.84	296757	15.76	295134	19.94	186564	21.78
ZZZZZZ	82921	6.99	305410	9.37	176864	12.84	275406	15.76	282451	19.94	193250	21.78
ZZZZZZ	81277	6.99	304611	9.37	173134	12.84	264122	15.76	279053	19.94	188670	21.78
ZZZZZZ	79483	7.00	291809	9.37	172481	12.84	271735	15.76	282793	19.94	195402	21.78
ZZZZZZ	99883	6.99	358754	9.36	193103	12.84	266069	15.76	114393*	19.94	56282	21.78
ZZZZZZ	45833*	7.00	174209*	9.37	93611*	12.84	87217*	15.77	104921*	20.05	50242*	22.08

IS 1 = 1,4-Dichlorobenzene-d4
 IS 2 = Naphthalene-d8
 IS 3 = Acenaphthene-D10
 IS 4 = Phenanthrene-d10
 IS 5 = Chrysene-d12
 IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Page 1 of 2

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P34-CC27	Injection Date:	11/02/10
Lab File ID:	3P716.D	Injection Time:	10:34
Instrument ID:	GCMS3P	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	75021	6.99	271386	9.36	156883	12.84	240992	15.76	235932	19.94	139698	21.78
Upper Limit ^a	150042	7.49	542772	9.86	313766	13.34	481984	16.26	471864	20.44	279396	22.28
Lower Limit ^b	37511	6.49	135693	8.86	78442	12.34	120496	15.26	117966	19.44	69849	21.28

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP46463-MB1	82385	6.99	301561	9.36	167097	12.84	254379	15.76	262686	19.94	173765	21.78
OP46463-BS1	76679	6.99	275253	9.36	153314	12.84	239302	15.76	243663	19.94	153659	21.78
ZZZZZZ	77266	6.99	284406	9.36	158583	12.84	236475	15.76	250516	19.94	170047	21.78
JA60201-2	78927	6.99	296308	9.36	160100	12.84	241039	15.76	265072	19.94	185042	21.78
ZZZZZZ	72195	6.99	272362	9.36	151099	12.84	247337	15.76	244781	19.94	171444	21.78
ZZZZZZ	76936	6.99	278935	9.36	153787	12.84	248824	15.76	248925	19.94	175383	21.78
ZZZZZZ	121394	6.99	437610	9.36	161593	12.84	139641	15.77	167266	19.94	218003	21.78
OP46463-MS	75220	6.99	267328	9.36	150394	12.84	237750	15.76	239570	19.94	159257	21.78
OP46463A-MS	75220	6.99	267328	9.36	150394	12.84	237750	15.76	239570	19.94	159257	21.78
OP46463-MSD	75116	6.99	268420	9.36	149182	12.84	237353	15.76	244874	19.94	165596	21.78
OP46463A-MSD	75116	6.99	268420	9.36	149182	12.84	237353	15.76	244874	19.94	165596	21.78
ZZZZZZ	92836	6.99	334888	9.36	184895	12.84	288620	15.76	308373	19.94	219934	21.78
JA58900-1	84159	6.99	314566	9.36	174899	12.84	248674	15.76	259666	19.94	177538	21.78
ZZZZZZ												
JA58900-7	85171	6.99	310311	9.36	170775	12.84	251998	15.76	255546	19.94	175512	21.78
ZZZZZZ												
JA58900-8	74034	6.99	269403	9.36	145957	12.84	207583	15.76	216746	19.94	158715	21.78
ZZZZZZ												
JA58900-9	88505	6.99	318433	9.36	176044	12.84	258647	15.76	273227	19.94	200481	21.78
ZZZZZZ												
JA58900-12	105631	6.99	380390	9.36	208582	12.84	293966	15.76	312670	19.94	227564	21.77
ZZZZZZ												
JA58900-14	97184	6.99	353091	9.36	191677	12.84	269489	15.76	273471	19.93	196663	21.77
ZZZZZZ												
JA58900-2	89677	6.99	315900	9.36	174828	12.84	249583	15.76	233973	19.93	154231	21.77
ZZZZZZ												
JA58900-4	82123	6.99	285993	9.36	157443	12.84	250887	15.75	222419	19.93	146380	21.77
ZZZZZZ												
JA58900-10	91618	6.99	316515	9.36	171329	12.84	248553	15.75	208409	19.93	129988	21.77
ZZZZZZ												
JA58900-11	130776	6.99	471444	9.36	257210	12.84	379143	15.76	303558	19.93	198562	21.77
ZZZZZZ												

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

Semivolatile Internal Standard Area Summary

Page 2 of 2

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std: E3P34-CC27

Injection Date: 11/02/10

Lab File ID: 3P716.D

Injection Time: 10:34

Instrument ID: GCMS3P

Method: SW846 8270C

Lab	IS 1	IS 2	IS 3	IS 4	IS 5	IS 6
Sample ID	AREA	RT	AREA	RT	AREA	RT

IS 2 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

7.5.3

7

Semivolatile Internal Standard Area Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	EF4333-CC4329	Injection Date:	10/21/10
Lab File ID:	F92522.D	Injection Time:	15:26
Instrument ID:	GCMSF	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	240985	3.33	864614	4.99	549746	7.66	949788	9.93	1032893	13.48	866476	14.85
Upper Limit ^a	481970	3.83	1729228	5.49	1099492	8.16	1899576	10.43	2065786	13.98	1732952	15.35
Lower Limit ^b	120493	2.83	432307	4.49	274873	7.16	474894	9.43	516447	12.98	433238	14.35

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP46278-MB1	180528	3.32	635402	4.99	418130	7.66	696475	9.93	788979	13.48	671029	14.85
OP46278-BS1	193473	3.33	687704	5.00	417572	7.66	711604	9.93	798534	13.48	691154	14.85
JA58900-5	200701	3.33	680862	4.99	462134	7.66	764963	9.93	886169	13.48	743142	14.85
ZZZZZZ	200701	3.33	680862	4.99	462134	7.66	764963	9.93	886169	13.48	743142	14.85
JA58900-6	198272	3.32	642507	4.99	432746	7.66	725938	9.93	840676	13.48	691077	14.85
ZZZZZZ	198272	3.32	642507	4.99	432746	7.66	725938	9.93	840676	13.48	691077	14.85
JA59086-1	193028	3.33	665146	4.99	430687	7.66	717592	9.93	817575	13.48	711679	14.85
OP46278-MS	186612	3.33	652627	5.00	411592	7.66	678623	9.93	739905	13.49	632387	14.85
OP46278A-MS	186612	3.33	652627	5.00	411592	7.66	678623	9.93	739905	13.49	632387	14.85
OP46278-MSD	183255	3.33	642610	5.00	407434	7.66	674976	9.93	744857	13.48	643064	14.85
OP46278A-MSD	183255	3.33	642610	5.00	407434	7.66	674976	9.93	744857	13.48	643064	14.85
ZZZZZZ	210185	3.32	711006	4.99	469739	7.66	799776	9.93	905871	13.48	764974	14.85
ZZZZZZ	210267	3.33	719444	4.99	479961	7.66	789224	9.93	891590	13.48	761648	14.85
ZZZZZZ	202287	3.33	676885	4.99	445693	7.66	752331	9.93	836070	13.48	705516	14.85
ZZZZZZ	204584	3.33	668161	4.99	445738	7.66	753462	9.93	856191	13.48	739268	14.85
ZZZZZZ	201848	3.33	681457	4.99	450746	7.66	743837	9.93	857032	13.48	714128	14.85
ZZZZZZ	200667	3.33	679167	4.99	447310	7.66	755304	9.93	865128	13.48	727840	14.85
ZZZZZZ	203940	3.33	677992	4.99	445184	7.66	730851	9.93	851683	13.48	726058	14.85
ZZZZZZ	219411	3.33	735771	4.99	482455	7.66	817964	9.93	939168	13.48	804013	14.85

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8270C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JA58900-5	F92534.D	41.0	22.0	90.0	83.0	76.0	93.0
JA58900-6	F92535.D	52.0	30.0	107.0	102.0	92.0	100.0
OP46278-BS1	F92525.D	52.0	38.0	101.0	98.0	94.0	101.0
OP46278-MB1	F92524.D	46.0	26.0	107.0	98.0	94.0	102.0
OP46278-MS	F92527.D	66.0	62.0* a	97.0	99.0	93.0	99.0
OP46278-MSD	F92528.D	67.0	64.0* a	94.0	98.0	90.0	95.0

Surrogate Compounds	Recovery Limits
------------------------	--------------------

S1 = 2-Fluorophenol	13-68%
S2 = Phenol-d5	10-49%
S3 = 2,4,6-Tribromophenol	37-130%
S4 = Nitrobenzene-d5	25-112%
S5 = 2-Fluorobiphenyl	31-106%
S6 = Terphenyl-d14	14-122%

(a) Outside of in house control limits, but within reasonable method recovery limits.

7.6.1

7

Semivolatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8270C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JA58900-1	3P728.D	39.0	33.0	42.0	40.0	45.0	49.0
JA58900-2	3P734.D	42.0	36.0	60.0	47.0	54.0	68.0
JA58900-3	3P705.D	49.0	39.0	67.0	48.0	55.0	70.0
JA58900-4	3P735.D	41.0	38.0	63.0	49.0	54.0	80.0
JA58900-7	3P729.D	36.0	31.0	44.0	35.0	41.0	51.0
JA58900-8	3P730.D	46.0	37.0	54.0	42.0	50.0	63.0
JA58900-9	3P731.D	46.0	40.0	58.0	49.0	57.0	63.0
JA58900-10	3P736.D	49.0	46.0	73.0	56.0	67.0	83.0
JA58900-11	3P737.D	35.0	32.0	51.0	38.0	41.0	62.0
JA58900-12	3P732.D	44.0	42.0	59.0	41.0	47.0	70.0
JA58900-14	3P733.D	46.0	40.0	60.0	42.0	48.0	64.0
OP46332-BS1	3P617.D	82.0	77.0	100.0	91.0	94.0	97.0
OP46332-MB1	3P616.D	73.0	65.0	77.0	83.0	84.0	92.0
OP46332-MS	3P706.D	57.0	52.0	77.0	59.0	66.0	78.0
OP46332-MSD	3P707.D	14.0* a	13.0* a	21.0* a	14.0* a	17.0* a	23.0* a

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-109%
S2 = Phenol-d5	28-108%
S3 = 2,4,6-Tribromophenol	28-125%
S4 = Nitrobenzene-d5	28-113%
S5 = 2-Fluorobiphenyl	38-107%
S6 = Terphenyl-d14	31-116%

(a) Outside of in house control limits.

7.6.2
7

Initial Calibration Summary

Page 1 of 3

Job Number: JA58900

Sample: E3P27-ICC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P581.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Response Factor Report GC3P

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Tue Oct 26 11:15:28 2010
 Response via : Initial Calibration

Calibration Files

2 =3P582.D 5 =3P580.D 25 =3P581.D 80 =3P579.D
 100 =3P594.D 50 =3P576.D 1 =3P578.D 10 =3P583.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----									
2) 1,4-Dioxane	0.362	0.381	0.411	0.372	0.368	0.422	0.476	0.383	0.397	9.62
3) Pyridine	1.085	1.227	1.326	1.262	1.269	1.259	1.217	1.347	1.249	6.40
4) N-Nitrosodim	0.676	0.660	0.776	0.708	0.677	0.668	0.481	0.753	0.675	13.16
5) 2-Fluorophen	0.898	1.170	1.329	1.254	1.251	1.211		1.191	1.186	11.58
6) Indene	1.774	1.886	2.062	1.892	1.875	1.846	2.110	1.984	1.929	5.90
7) Cumene	2.559	2.497	2.840	2.731	2.660	2.573	2.690	2.651	2.650	4.08
8) Phenol-d5	1.731	1.752	1.816	1.751	1.756	1.669	1.675	1.727	1.735	2.73
9) Phenol	1.701	1.872	1.981	1.807	1.785	1.784		1.968	1.843	5.60
10) Aniline	1.804	1.963	1.946	1.730	1.678	1.678	1.800	1.951	1.819	6.67
11) bis(2-Chloro	1.294	1.527	1.534	1.369	1.357	1.311	1.404	1.529	1.415	7.11
12) 2-Chlorophen	1.342	1.353	1.468	1.398	1.391	1.372	1.254	1.412	1.374	4.52
13) Decane	1.780	1.761	1.918	1.779	1.653	1.554	1.936	1.888	1.784	7.42
14) 1,3-Dichloro	1.472	1.488	1.599	1.545	1.526	1.511	1.720	1.539	1.550	5.07
15) 1,4-Dichloro	1.590	1.596	1.710	1.602	1.585	1.523	1.885	1.605	1.637	6.88
16) Benzyl alcoh	0.628	0.637	0.898	0.928	0.926	0.845		0.788	0.807	16.00
----- Linear regression ----- Coefficient = 0.9986										
Response Ratio = -0.03745 + 0.93526 *A										
17) 1,2-Dichloro	1.498	1.500	1.613	1.546	1.547	1.513	1.647	1.523	1.548	3.51
18) Acetophenone	1.798	1.804	1.873	1.791	1.723	1.700	1.634	1.859	1.773	4.59
19) 2-Methylphen	1.348	1.310	1.330	1.243	1.214	1.210	1.354	1.328	1.292	4.65
20) 2,2'-oxybis(0.375	0.422	0.434	0.411	0.410	0.393		0.433	0.411	5.22
21) 3&4-Methylph	1.066	1.255	1.329	1.350	1.366	1.257		1.341	1.281	8.16
22) n-Nitroso-di	0.949	1.071	1.077	1.081	1.061	0.992	0.949	1.056	1.029	5.51
23) Hexachloroet	0.577	0.514	0.563	0.560	0.578	0.528	0.675	0.542	0.567	8.68
24) I Naphthalene-d8	-----ISTD-----									
25) Nitrobenzene	0.421	0.432	0.469	0.449	0.430	0.416	0.390	0.461	0.433	5.92
26) Nitrobenzene	0.161	0.172	0.191	0.186	0.182	0.182		0.181	0.179	5.50
27) Quinoline	0.588	0.617	0.630	0.627	0.607	0.617	0.576	0.625	0.611	3.19
28) Isophorone	0.728	0.728	0.772	0.700	0.665	0.688	0.763	0.736	0.722	5.05
29) 2-Nitropheno	0.185	0.191	0.213	0.219	0.214	0.207		0.206	0.205	6.17
30) 2,4-Dimethyl	0.283	0.282	0.342	0.353	0.343	0.325	0.242	0.314	0.311	12.31
31) Benzoic acid			0.206	0.231	0.224	0.160		0.172	0.199	15.88
32) bis(2-Chloro	0.424	0.451	0.487	0.472	0.454	0.443	0.478	0.458	0.458	4.39
33) 2,4-Dichloro	0.245	0.273	0.303	0.303	0.301	0.294		0.295	0.288	7.47
34) 2,6-Dichloro	0.265	0.284	0.307	0.305	0.302	0.291	0.273	0.300	0.291	5.34
35) 1,3,5-Trichl	0.325	0.312	0.345	0.346	0.337	0.325	0.348	0.329	0.333	3.74
36) 1,2,4-Trichl	0.310	0.312	0.340	0.337	0.333	0.320	0.370	0.329	0.331	5.74
37) 1,2,3-Trichl	0.317	0.297	0.326	0.329	0.329	0.315	0.288	0.312	0.314	4.79
38) Naphthalene	1.089	1.071	1.118	1.115	1.074	1.051	1.246	1.117	1.110	5.43
39) 4-Chloroanil	0.429	0.454	0.471	0.443	0.428	0.428	0.455	0.433	0.443	3.59
40) 2,3-Dichloro	0.334	0.341	0.355	0.354	0.346	0.342	0.316	0.350	0.342	3.70
41) Caprolactam	0.178	0.186	0.197	0.188	0.177	0.169		0.206	0.186	6.76
42) Hexachlorobu	0.190	0.179	0.194	0.201	0.199	0.188	0.208	0.183	0.193	5.13

Initial Calibration Summary

Page 2 of 3

Job Number: JA58900

Sample: E3P27-ICC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P581.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

43)	4-Chloro-3-m	0.255	0.287	0.313	0.309	0.293	0.287	0.204	0.299	0.281	12.75
44)	2-Methylnaph	0.770	0.720	0.741	0.729	0.712	0.699	0.681	0.714	0.721	3.73
45)	1-Methylnaph	0.675	0.634	0.686	0.661	0.652	0.639	0.668	0.682	0.662	2.90
46)	Dimethylnaph	0.540	0.540	0.568	0.557	0.544	0.540	0.573	0.562	0.553	2.45
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.203	0.270	0.320	0.328	0.290		0.235	0.274		17.81
	----- Linear regression -----	Coefficient = 0.9978									
	Response Ratio =	-0.06278 + 0.33542 *A									
49)	2,4,6-Trichl	0.376	0.346	0.387	0.393	0.399	0.379	0.329	0.359	0.371	6.61
50)	2,4,5-Trichl	0.293	0.394	0.445	0.419	0.419	0.413		0.394	0.397	12.37
51)	2-Fluorobiph	1.371	1.331	1.484	1.472	1.476	1.396	1.615	1.394	1.442	6.17
52)	2-Chloronaph	1.170	1.206	1.290	1.312	1.299	1.217	1.366	1.166	1.253	5.86
53)	Biphenyl	1.439	1.445	1.593	1.635	1.632	1.500	1.730	1.496	1.559	6.70
54)	2-Nitroanili	0.384	0.424	0.474	0.440	0.419	0.409		0.430	0.426	6.54
55)	Dimethylphth	1.255	1.223	1.306	1.286	1.258	1.243	1.437	1.274	1.285	5.17
56)	Acenaphthyle	1.870	1.902	2.073	1.971	1.932	1.885	2.210	1.905	1.969	5.93
57)	2,6-Dinitrot	0.271	0.275	0.303	0.279	0.274	0.277	0.290	0.270	0.280	4.06
58)	3-Nitroanili	0.305	0.335	0.379	0.365	0.360	0.345		0.354	0.349	6.88
59)	Acenaphthene	1.203	1.184	1.265	1.258	1.234	1.192	1.429	1.205	1.246	6.40
60)	2,4-Dinitrop	0.040	0.101	0.139	0.140	0.102			0.058	0.097	42.68
	----- Quadratic regression -----	Coefficient = 0.9955									
	Response Ratio =	-0.01647 + 0.09252 *A + 0.01074 *A^2									
61)	4-Nitropheno	0.139	0.168	0.193	0.186	0.176		0.144	0.168		13.08
62)	Dibenzofuran	1.615	1.622	1.730	1.737	1.701	1.646	1.838	1.644	1.692	4.48
63)	2,4-Dinitrot	0.345	0.364	0.396	0.399	0.379	0.375	0.377	0.371	0.376	4.56
64)	2,3,4,6-Tetr	0.249	0.275	0.330	0.339	0.342	0.320	0.275	0.302	0.304	11.39
65)	Diethylphtha	1.276	1.311	1.455	1.501	1.460	1.388	1.521	1.385	1.412	6.22
66)	Fluorene	1.265	1.255	1.414	1.438	1.404	1.349	1.381	1.294	1.350	5.25
67)	4-Chlorophen	0.532	0.560	0.602	0.605	0.593	0.584	0.664	0.575	0.589	6.55
68)	4-Nitroanili	0.342	0.381	0.362	0.341	0.337			0.358	0.353	4.69
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.079	0.129	0.166	0.168	0.129		0.105	0.129		26.68
	----- Linear regression -----	Coefficient = 0.9902									
	Response Ratio =	-0.02398 + 0.17404 *A									
71)	n-Nitrosodip	0.542	0.547	0.635	0.675	0.672	0.599	0.593	0.593	0.607	8.34
72)	1,2-Diphenyl	1.005	1.059	1.214	1.333	1.304	1.050	1.173	1.136	1.159	10.36
73)	2,4,6-Tribr	0.120	0.129	0.154	0.173	0.174	0.157		0.137	0.149	14.12
74)	4-Bromopheny	0.207	0.225	0.263	0.282	0.280	0.250	0.230	0.246	0.248	10.72
75)	Hexachlorobe	0.260	0.277	0.315	0.338	0.343	0.302	0.312	0.288	0.304	9.51
76)	Pentachlorop	0.108	0.149	0.197	0.206	0.216			0.125	0.167	27.30
	----- Linear regression -----	Coefficient = 0.9946									
	Response Ratio =	-0.04109 + 0.21328 *A									
77)	Phenanthrene	1.135	1.082	1.139	1.158	1.144	1.081	1.270	1.110	1.140	5.24
78)	Anthracene	1.083	1.101	1.160	1.161	1.148	1.049	1.322	1.098	1.140	7.32
79)	Carbazole	1.057	1.036	1.130	1.135	1.128	1.057	1.112	1.069	1.090	3.65
80)	Di-n-butylph	1.436	1.477	1.598	1.661	1.602	1.449	1.708	1.516	1.556	6.50
81)	Fluoranthene	1.163	1.151	1.287	1.392	1.360	1.226	1.308	1.212	1.262	7.04
82)	Octadecane	0.628	0.626	0.681	0.717	0.690	0.595	0.731	0.655	0.665	7.16
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.279	1.360	1.492	1.470	1.425	1.379	1.496	1.395	1.412	5.28
85)	Terphenyl-d1	0.758	0.744	0.837	0.850	0.821	0.774	0.930	0.783	0.812	7.50
86)	Butylbenzylp	0.708	0.667	0.727	0.725	0.695	0.669	0.811	0.678	0.710	6.62
87)	Butyl steara	0.754	0.613	0.549	0.492	0.458	0.455		0.536	0.551	19.11

7.7.1
7

Initial Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P27-ICC27

Lab FileID: 3P581.D

Page 3 of 3

----- Linear regression ----- Coefficient = 0.9962
Response Ratio = 0.02420 + 0.45870 *A

88)	Benzo[a]anth	1.132	1.042	1.119	1.145	1.153	1.057	1.339	1.073	1.133	8.23
89)	3,3'-Dichlor	0.369	0.411	0.446	0.466	0.474	0.414	0.509	0.423	0.439	10.00
90)	Chrysene	0.917	0.911	1.000	0.965	0.927	0.931	1.117	0.929	0.962	7.16
91)	bis(2-Ethylh	0.863	0.817	0.829	0.715	0.671	0.716	1.038	0.833	0.810	14.19
92)	I Perylene-d12										
93)	Di-n-octylph	2.136	2.224	2.423	2.463	2.419	2.214	2.528	2.299	2.338	5.96
94)	Benzo[b]fluo	1.298	1.459	1.708	1.970	1.837	1.607	1.476	1.485	1.605	13.83
95)	Benzo[k]fluo	1.429	1.198	1.311	1.356	1.443	1.353	1.472	1.303	1.358	6.59
96)	Benzo[a]pyre	1.162	1.174	1.315	1.376	1.370	1.268	1.371	1.254	1.286	6.76
97)	Indeno[1,2,3	0.961	0.968	1.074	1.130	1.123	1.021	1.079	1.031	1.048	6.12
98)	Dibenz(a,h)a	0.727	0.772	0.887	0.950	0.968	0.836	0.882	0.801	0.853	9.93
99)	Dibenz[a,h]a	0.745	0.760	0.793	0.828	0.853	0.751	0.861	0.788	0.797	5.70
100)	7,12-Dimethy	0.445	0.434	0.592	0.701	0.705	0.593		0.516	0.570	19.44

----- Linear regression ----- Coefficient = 0.9953
Response Ratio = -0.05359 + 0.71436 *A

101) Benzo[g,h,i] 0.709 0.762 0.839 0.868 0.858 0.796 0.773 0.799 0.800 6.67

(#) = Out of Range ### Number of calibration levels exceeded format ###

M3P27.M

Tue Oct 26 18:18:30 2010

RPT1

7.7.1
7

Initial Calibration Summary

Page 1 of 1

Job Number: JA58900

Sample: E3P28-ICC28

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P597.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Response Factor Report GC3P

Method : C:\MSDCHEM\1\METHODS\M3P28.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Oct 26 11:15:28 2010
Response via : Initial Calibration

Calibration Files

2 =3P600.D 5 =3P599.D 25 =3P597.D 80 =3P595.D
100 =3P594.D 50 =3P596.D 1 = 10 =3P598.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
----------	---	---	----	----	-----	----	---	----	----------

102)	1,4-Dichlorobenzene-d	-----ISTD-----							
103)	Benzaldehyde	0.780	0.818	0.827	0.592	0.646		0.656 0.720	14.00
104)	Acenaphthene-d10a	-----ISTD-----							
105)	Atrazine	0.123	0.142	0.154	0.160	0.141	0.157	0.128 0.144	10.08
106)	Chrysene-d12a	-----ISTD-----							
107)	Benzidine	0.592	0.594	0.595	0.366	0.316	0.211	0.558 0.462	34.80
108)	Methyl Parat	0.689	1.030	1.219	1.413	1.303	1.282	1.071 1.144	21.05
		----- Linear regression ----- Coefficient = 0.9965							
		Response Ratio = -0.05494 + 1.36203 *A							
109)	Parathion	1.072	1.346	1.449	1.629	1.486	1.499	1.321 1.400	12.68
110)	Acenaphthene-d10b	-----ISTD-----							
111)	1,2,4,5-Tetr	0.562	0.566	0.602	0.658	0.609	0.616	0.534 0.592	6.97

(#) = Out of Range ### Number of calibration levels exceeded format ###

M3P27.M

Tue Oct 26 18:24:21 2010

RPT1

7.7.2
7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: E3P28-ICV27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P602.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P602.D

Vial: 10

Acq On : 26 Oct 2010 1:26 am

Operator: kristis

Sample : icv27-50

Inst : GC3P

Misc : op46181,e3p28,acid

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 11:15:28 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	-0.01	7.02
9 t	Phenol	1.843	1.848	-0.3	85	-0.07	6.59
12 t	2-Chlorophenol	1.374	1.462	-6.4	87	-0.03	6.72
19 t	2-Methylphenol	1.292	1.303	-0.9	88	-0.05	7.63
21 t	3&4-Methylphenol	1.281	1.345	-5.0	88	-0.09	7.91
24 I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	9.39
29 t	2-Nitrophenol	0.205	0.218	-6.3	86	-0.04	8.74
30 t	2,4-Dimethylphenol	0.311	0.374	-20.3#	94	-0.05	8.89
31 t	Benzoic acid	0.199	0.181	9.0	93	-0.01	9.20
33 t	2,4-Dichlorophenol	0.288	0.323	-12.2	90	-0.10	9.21
34 t	2,6-Dichlorophenol	0.291	0.332	-14.1	93	-0.04	9.64
43 t	4-Chloro-3-methylphenol	0.281	0.315	-12.1	90	-0.10	10.66
47 I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	12.87
49 t	2,4,6-Trichlorophenol	0.371	0.397	-7.0	89	-0.04	11.44
50 t	2,4,5-Trichlorophenol	0.397	0.474	-19.4	97	-0.08	11.54
	----- True Calc. % Drift -----						
60 t	2,4-Dinitrophenol	50.000	48.694	4.0	74	0.03	13.15
	----- AvgRF CCRF % Dev -----						
61 t	4-Nitrophenol	0.168	0.140	16.7	68	0.01	13.39
64	2,3,4,6-Tetrachlorophenol	0.304	0.332	-9.2	88	-0.03	13.63
69 I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00	15.79
	----- True Calc. % Drift -----						
70 t	4,6-Dinitro-2-methylpheno	50.000	40.062	19.9	84	-0.01	14.22
	----- True Calc. % Drift -----						
76 t	Pentachlorophenol	50.000	44.195	12.0	66	-0.04	15.59

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Tue Oct 26 18:27:28 2010 RPT1

Initial Calibration Verification

Job Number: JA58900

Sample: E3P28-ICV27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P603.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P603.D

Vial: 11

Acq On : 26 Oct 2010 1:56 am

Operator: kristis

Sample : icv27-50

Inst : GC3P

Misc : op46181,e3p28,bn#1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 11:15:28 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	-0.01	7.02
3 t	Pyridine	1.249	1.394	-11.6	114	-0.10	3.08
4 t	N-Nitrosodimethylamine	0.675	0.637	5.6	99	-0.04	3.08
11 t	bis(2-Chloroethyl)ether	1.415	1.372	3.0	108	-0.02	6.67
14 t	1,3-Dichlorobenzene	1.550	1.598	-3.1	109	-0.01	6.95
15 t	1,4-Dichlorobenzene	1.637	1.663	-1.6	113	0.00	7.05
----- True Calc. % Drift -----							
16 t	Benzyl alcohol	50.000	48.725	2.5	108	-0.18	7.36
----- AvgRF CCRF % Dev -----							
17 t	1,2-Dichlorobenzene	1.548	1.548	0.0	106	-0.01	7.38
20 t	2,2'-oxybis(1-Chloropropa	0.411	0.416	-1.2	109	-0.02	7.64
22 t	n-Nitroso-di-n-propylamin	1.029	0.982	4.6	102	-0.02	7.90
23 t	Hexachloroethane	0.567	0.584	-3.0	114	0.00	7.92
24 I	Naphthalene-d8	1.000	1.000	0.0	99	0.00	9.39
26 t	Nitrobenzene	0.179	0.197	-10.1	107	-0.03	8.13
28 t	Isophorone	0.722	0.764	-5.8	110	-0.02	8.57
32 t	bis(2-Chloroethoxy)methan	0.458	0.485	-5.9	109	-0.03	9.06
36 t	1,2,4-Trichlorobenzene	0.331	0.362	-9.4	112	0.00	9.33
42 t	Hexachlorobutadiene	0.193	0.216	-11.9	114	0.00	9.81
44 t	2-Methylnaphthalene	0.721	0.678	6.0	96	-0.02	10.79
47 I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	12.8
52 t	2-Chloronaphthalene	1.253	1.264	-0.9	101	-0.02	11.74
54 t	2-Nitroaniline	0.426	0.375	12.0	89	-0.06	12.06
55 t	Dimethylphthalate	1.285	1.333	-3.7	104	-0.01	
57 t	2,6-Dinitrotoluene	0.280	0.292	-4.3	102	-0.02	12.65
58 t	3-Nitroaniline	0.349	0.314	10.0	88	-0.08	12.90
62 t	Dibenzofuran	1.692	1.664	1.7	98	-0.02	13.26
63 t	2,4-Dinitrotoluene	0.376	0.364	3.2	94	-0.05	13.42
65 t	Diethylphthalate	1.412	1.358	3.8	95	0.00	13.95
67 t	4-Chlorophenyl-phenylethe	0.589	0.601	-2.0	100	0.00	13.99
68 t	4-Nitroaniline	0.353	0.326	7.6	94	-0.09	14.13
69 I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	15.79
71 t	n-Nitrosodiphenylamine	0.607	0.526	13.3	92	-0.02	14.26
72 t	1,2-Diphenylhydrazine	1.159	0.935	19.3	93	-0.01	14.30

Initial Calibration Verification

Page 2 of 2

Job Number: JA58900

Sample: E3P28-ICV27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P603.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

74 t	4-Bromophenyl-phenylether	0.248	0.248	0.0	104	-0.01	14.95
75 t	Hexachlorobenzene	0.304	0.298	2.0	103	0.00	15.20
79 t	Carbazole	1.090	1.032	5.3	102	-0.04	16.28
80 t	Di-n-butylphthalate	1.556	1.388	10.8	100	0.00	17.08
83 I	Chrysene-d12	1.000	1.000	0.0	104	0.00	19.95
86 t	Butylbenzylphthalate	0.710	0.662	6.8	103	0.00	19.30
91 t	bis(2-Ethylhexyl)phthalat	0.810	0.708	12.6	103	0.00	20.10
92 I	Perylene-d12	1.000	1.000	0.0	106	0.00	21.79
93 t	Di-n-octylphthalate	2.338	2.175	7.0	104	0.00	20.85

(#) = Out of Range
3P576.D M3P27.M

SPCC's out = 0 CCC's out = 0
Tue Oct 26 18:34:20, 2010 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900**Sample:** E3P28-ICV28**Account:** ENSRMAA AECOM, INC.**Lab FileID:** 3P603A.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P603a.D Vial: 11
Acq On : 26 Oct 2010 1:56 am Operator: kristis
Sample : icv28-50 Inst : GC3P
Misc : op46181,e3p28,bn#1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Oct 26 18:40:07 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
110	Acenaphthene-d10b	1.000	1.000	0.0	108	0.00	12.87
111	1,2,4,5-Tetrachlorobenzen	0.592	0.638	-7.8	112	0.00	11.20

(#) = Out of Range
3P576.D M3P27.M

SPCC's out = 0 CCC's out = 0
Tue Oct 26 18:40:29 2010 RPT1

7.7.5

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: E3P28-ICV27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P604.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P604.D

Vial: 12

Acq On : 26 Oct 2010 2:27 am

Operator: kristis

Sample : icv27-50

Inst : GC3P

Misc : op46181,e3p28,bn#2

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	-0.01	7.02
2 t	1,4-Dioxane	0.397	0.392	1.3	99	0.00	2.65
6 t	Indene	1.929	1.825	5.4	105	-0.02	7.52
7 t	Cumene	2.650	2.316	12.6	96	0.00	5.72
13 t	Decane	1.784	1.522	14.7	104	0.00	6.82
18 t	Acetophenone	1.773	1.857	-4.7	116	-0.04	7.82
24 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00	9.39
27 t	Quinoline	0.611	0.712	-16.5	118	-0.07	10.10
40 t	2,3-Dichloroaniline	0.342	0.324	5.3	97	-0.02	11.44
41 t	Caprolactam	0.186	0.164	11.8	99	-0.05	10.25
45 t	1-Methylnaphthalene	0.662	0.674	-1.8	108	-0.01	10.99
46 t	Dimethylnaphthalene	0.553	0.588	-6.3	111	-0.02	12.04
47 I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00	12.87
53 t	Biphenyl	1.559	1.522	2.4	106	-0.01	11.75
69 I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00	15.79
82 t	Octadecane	0.665	0.577	13.2	103	0.00	15.75
92 I	Perylene-d12	1.000	1.000	0.0	128	-0.01	21.79
	----- True Calc. % Drift -----						
100 t	7,12-Dimethylbenz(a)anthr	50.000	38.854	22.3#	110	0.00	21.30

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Tue Oct 26 18:42:56 2010 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900**Sample:** E3P28-ICV28**Account:** ENSRMAA AECOM, INC.**Lab FileID:** 3P604A.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P604a.D Vial: 12
Acq On : 26 Oct 2010 2:27 am Operator: kristis
Sample : icv28-50 Inst : GC3P
Misc : op46181,e3p28,bn#2 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Oct 26 18:42:47 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	123	-0.01	7.02
103	Benzaldehyde	0.720	0.984	-36.7#	187	-0.01	6.29
104	Acenaphthene-d10a	1.000	1.000	0.0	117	0.00	12.87
105	Atrazine	0.144	0.158	-9.7	117	-0.01	15.45

(#) = Out of Range
3P576.D M3P27.M

SPCC's out = 0 CCC's out = 0
Tue Oct 26 18:45:41 2010 RPT1

7.7.7

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: E3P28-ICV27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P605.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P605.D

Vial: 13

Acq On : 26 Oct 2010 2:57 am

Operator: kristis

Sample : icv27-50

Inst : GC3P

Misc : op46181,e3p28,3rd source

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	115	0.00	19.95
89 t	3,3'-Dichlorobenzidine	0.439	0.425	3.2	118	-0.02	19.94

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Tue Oct 26 18:48:27 2010 RPT1

7.7.8

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: E3P28-ICV28

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P605A.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P605a.D Vial: 13
Acq On : 26 Oct 2010 2:57 am Operator: kristis
Sample : icv28-50 Inst : GC3P
Misc : op46181,e3p28,3rd source Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Oct 26 18:42:47 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
106	Chrysene-d12a	1.000	1.000	0.0	101	0.00	19.95
107	Benzidine	0.462	0.768	-66.2#	369#	0.00	18.16

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Tue Oct 26 18:49:47 2010 RPT1

7.7.9

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: E3P28-ICV27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P606.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\28\3P606.D Vial: 14
Acq On : 26 Oct 2010 3:28 am Operator: kristis
Sample : icv27-50 Inst : GC3P
Misc : op46181,e3p28,benzidine Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Oct 26 18:42:47 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	-0.01	7.02
10	Aniline	1.819	1.850	-1.7	124	-0.04	6.53
24 I	Naphthalene-d8	1.000	1.000	0.0	113	0.00	9.39
39 t	4-Chloroaniline	0.443	0.421	5.0	112	-0.05	9.63

(#) = Out of Range
3P576.D M3P27.M

SPCC's out = 0 CCC's out = 0
Tue Oct 26 18:51:00 2010 RPT1

7.7.10

7

Continuing Calibration Summary

Page 1 of 3

Job Number: JA58900

Sample: E3P29-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P608.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\29\3P608.D

Vial: 2

Acq On : 26 Oct 2010 9:06 am

Operator: kristis

Sample : cc27-50

Inst : GC3P

Misc : op46181,e3p29,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	132	-0.02	7.01
2 t	1,4-Dioxane	0.397	0.439	-10.6	137	-0.02	2.64
3 t	Pyridine	1.249	1.244	0.4	130	-0.11	3.07
4 t	N-Nitrosodimethylamine	0.675	0.549	18.7	108	-0.06	3.07
5 S	2-Fluorophenol	1.186	1.212	-2.2	132	-0.10	4.99
6 t	Indene	1.929	1.760	8.8	126	-0.02	7.52
7 t	Cumene	2.650	2.513	5.2	129	-0.01	5.72
8 S	Phenol-d5	1.735	1.582	8.8	125	-0.06	6.56
9 t	Phenol	1.843	1.683	8.7	124	-0.08	6.58
10	Aniline	1.819	1.600	12.0	126	-0.04	6.54
11 t	bis(2-Chloroethyl)ether	1.415	1.214	14.2	122	-0.02	6.67
12 t	2-Chlorophenol	1.374	1.308	4.8	126	-0.04	6.72
13 t	Decane	1.784	1.350	24.3#	115	0.00	6.81
14 t	1,3-Dichlorobenzene	1.550	1.474	4.9	129	-0.01	6.95
15 t	1,4-Dichlorobenzene	1.637	1.506	8.0	130	0.00	7.05
----- True Calc. % Drift -----							
16 t	Benzyl alcohol	50.000	47.293	5.4	133	-0.17	7.36
----- AvgRF CCRF % Dev -----							
17 t	1,2-Dichlorobenzene	1.548	1.455	6.0	127	-0.01	7.38
18 t	Acetophenone	1.773	1.657	6.5	129	-0.04	7.83
19 t	2-Methylphenol	1.292	1.118	13.5	122	-0.04	7.63
20 t	2,2'-oxybis(1-Chloropropa	0.411	0.369	10.2	124	-0.02	7.64
21 t	3&4-Methylphenol	1.281	1.199	6.4	126	-0.09	7.91
22 t	n-Nitroso-di-n-propylamin	1.029	0.901	12.4	120	-0.01	7.90
23 t	Hexachloroethane	0.567	0.538	5.1	135	-0.01	7.92
24 I	Naphthalene-d8	1.000	1.000	0.0	127	0.00	9.39
25 S	Nitrobenzene-d5	0.433	0.396	8.5	121	-0.03	8.09
26 t	Nitrobenzene	0.179	0.177	1.1	123	-0.03	8.13
27 t	Quinoline	0.611	0.615	-0.7	127	-0.05	10.12
28 t	Isophorone	0.722	0.657	9.0	121	0.00	8.58
29 t	2-Nitrophenol	0.205	0.202	1.5	124	-0.04	8.73
30 t	2,4-Dimethylphenol	0.311	0.319	-2.6	125	-0.05	8.89
31 t	Benzoic acid	0.199	0.224	-12.6	178	0.02	9.22
32 t	bis(2-Chloroethoxy)methan	0.458	0.426	7.0	122	-0.03	9.06
33 t	2,4-Dichlorophenol	0.288	0.303	-5.2	131	-0.10	9.21
34 t	2,6-Dichlorophenol	0.291	0.305	-4.8	133	-0.04	9.63
35	1,3,5-Trichlorobenzene	0.333	0.341	-2.4	133	-0.01	8.73
36 t	1,2,4-Trichlorobenzene	0.331	0.330	0.3	131	0.00	9.33
37	1,2,3-Trichlorobenzene	0.314	0.321	-2.2	130	-0.01	9.79

Continuing Calibration Summary

Page 2 of 3

Job Number: JA58900

Sample: E3P29-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P608.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

38 t	Naphthalene	1.110	1.052	5.2	127	0.00	9.43
39 t	4-Chloroaniline	0.443	0.423	4.5	126	-0.05	9.63
40 t	2,3-Dichloroaniline	0.342	0.348	-1.8	129	-0.02	11.44
41 t	Caprolactam	0.186	0.154	17.2	116	0.00	10.31
42 t	Hexachlorobutadiene	0.193	0.200	-3.6	135	0.00	9.81
43 t	4-Chloro-3-methylphenol	0.281	0.289	-2.8	128	-0.08	10.67
44 t	2-Methylnaphthalene	0.721	0.694	3.7	126	-0.02	10.79
45 t	1-Methylnaphthalene	0.662	0.634	4.2	126	-0.01	10.99
46 t	Dimethylnaphthalene	0.553	0.541	2.2	127	-0.02	12.04
47 I	Acenaphthene-d10	1.000	1.000	0.0	130	0.00	12.87
		True	Calc.	% Drift			
48 t	Hexachlorocyclopentadiene	100.000	100.115	-0.1	139	0.00	11.24
		AvgRF	CCRF	% Dev			
49 t	2,4,6-Trichlorophenol	0.371	0.389	-4.9	134	-0.04	11.45
50 t	2,4,5-Trichlorophenol	0.397	0.419	-5.5	132	-0.08	11.54
51 S	2-Fluorobiphenyl	1.442	1.399	3.0	130	0.00	11.59
52 t	2-Chloronaphthalene	1.253	1.203	4.0	129	-0.02	11.74
53 t	Biphenyl	1.559	1.473	5.5	128	-0.01	11.75
54 t	2-Nitroaniline	0.426	0.361	15.3	115	-0.06	12.06
55 t	Dimethylphthalate	1.285	1.262	1.8	132	0.00	12.53
56 t	Acenaphthylene	1.969	1.878	4.6	130	-0.01	12.56
57 t	2,6-Dinitrotoluene	0.280	0.280	0.0	132	-0.02	12.65
58 t	3-Nitroaniline	0.349	0.347	0.6	131	-0.08	12.90
59 t	Acenaphthene	1.246	1.182	5.1	129	0.00	12.93
		True	Calc.	% Drift			
60 t	2,4-Dinitrophenol	100.000	116.297	-16.3	175	-0.01	13.12
		AvgRF	CCRF	% Dev			
61 t	4-Nitrophenol	0.168	0.155	7.7	114	-0.01	13.37
62 t	Dibenzofuran	1.692	1.647	2.7	130	-0.02	13.26
63 t	2,4-Dinitrotoluene	0.376	0.383	-1.9	133	-0.05	13.42
64	2,3,4,6-Tetrachlorophenol	0.304	0.350	-15.1	142	-0.03	13.64
65 t	Diethylphthalate	1.412	1.366	3.3	128	0.00	13.95
66 t	Fluorene	1.350	1.330	1.5	128	-0.02	13.94
67 t	4-Chlorophenyl-phenylether	0.589	0.606	-2.9	135	0.00	13.99
68 t	4-Nitroaniline	0.353	0.360	-2.0	139	-0.09	14.14
69 I	Phenanthrene-d10	1.000	1.000	0.0	133	0.00	15.79
		True	Calc.	% Drift			
70 t	4,6-Dinitro-2-methylpheno	50.000	48.136	3.7	153	0.00	14.22
		AvgRF	CCRF	% Dev			
71 t	n-Nitrosodiphenylamine	0.607	0.592	2.5	131	-0.02	14.26
72 t	1,2-Diphenylhydrazine	1.159	0.945	18.5	119	-0.01	14.30
73 S	2,4,6-Tribromophenol	0.149	0.171	-14.8	144	-0.04	14.47
74 t	4-Bromophenyl-phenylether	0.248	0.264	-6.5	140	-0.01	14.95
75 t	Hexachlorobenzene	0.304	0.325	-6.9	143	-0.01	15.20
		True	Calc.	% Drift			
76 t	Pentachlorophenol	100.000	96.302	3.7	116	-0.04	15.59
		AvgRF	CCRF	% Dev			
77 t	Phenanthrene	1.140	1.057	7.3	130	0.00	15.83
78 t	Anthracene	1.140	1.067	6.4	135	-0.01	15.92
79 t	Carbazole	1.090	1.037	4.9	130	-0.04	16.28

7.7.11

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Continuing Calibration Summary

Page 3 of 3

Job Number: JA58900

Sample: E3P29-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P608.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

80 t	Di-n-butylphthalate	1.556	1.477	5.1	135	0.00	17.09
81 t	Fluoranthene	1.262	1.294	-2.5	140	-0.02	17.90
82 t	Octadecane	0.665	0.525	21.1#	117	0.00	15.75
83 I	Chrysene-d12	1.000	1.000	0.0	147	0.00	19.95
84 t	Pyrene	1.412	1.342	5.0	143	-0.02	18.23
85 S	Terphenyl-d14	0.812	0.795	2.1	151	-0.01	18.53
86 t	Butylbenzylphthalate	0.710	0.629	11.4	138	0.00	19.30
----- True Calc. % Drift -----							
87	Butyl stearate	50.000	38.496	23.0#	120	0.00	19.36
----- AvgRF CCRF % Dev -----							
88 t	Benzo[a]anthracene	1.133	1.047	7.6	145	0.00	19.93
89 t	3,3'-Dichlorobenzidine	0.439	0.433	1.4	154	-0.02	19.94
90 t	Chrysene	0.962	0.892	7.3	141	0.00	19.99
91 t	bis(2-Ethylhexyl)phthalat	0.810	0.655	19.1	134	0.00	20.10
92 I	Perylene-d12	1.000	1.000	0.0	153	0.00	21.79
93 t	Di-n-octylphthalate	2.338	2.017	13.7	139	0.00	20.85
94 t	Benzo[b]fluoranthene	1.605	1.736	-8.2	165	0.00	21.29
95 t	Benzo[k]fluoranthene	1.358	1.209	11.0	136	0.00	21.33
96 t	Benzo[a]pyrene	1.286	1.299	-1.0	156	0.00	21.72
97 t	Indeno[1,2,3-cd]pyrene	1.048	1.235	-17.8	184	-0.02	23.51
98 t	Dibenz(a,h)acridine	0.853	1.029	-20.6#	188	-0.01	23.11
99 t	Dibenz[a,h]anthracene	0.797	0.887	-11.3	180	-0.01	23.54
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	50.000	44.284	11.4	152	0.00	21.31
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	0.800	0.957	-19.6	184	-0.02	24.00

(#) = Out of Range
3P576.D M3P27.M

SPCC's out = 0 CCC's out = 0
Wed Oct 27 09:27:39 2010 RPT1

7.7.11
7

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58900

Sample: E3P29-CC28

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P609.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\29\3P609.D

Vial: 3

Acq On : 26 Oct 2010 9:37 am

Operator: kristis

Sample : cc28-50

Inst : GC3P

Misc : op46181,e3p29,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	103	-0.01	7.02
103	Benzaldehyde	0.720	0.650	9.7	103	0.00	6.30
104	Acenaphthene-d10a	1.000	1.000	0.0	100	0.00	12.87
105	Atrazine	0.144	0.149	-3.5	95	-0.02	15.45
106	Chrysene-d12a	1.000	1.000	0.0	99	0.00	19.95
107	Benzidine	0.462	0.234	49.4#	110	0.01	18.18
	----- True Calc. % Drift -----						
108	Methyl Parathion	50.000	47.572	4.9	97	0.00	16.67
	----- AvgRF CCRF % Dev -----						
109	Parathion	1.400	1.504	-7.4	99	0.00	17.36
110	Acenaphthene-d10b	1.000	1.000	0.0	100	0.00	12.87
111	1,2,4,5-Tetrachlorobenzen	0.592	0.616	-4.1	100	0.00	11.21

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Wed Oct 27 09:29:00 2010 RPT1

7.7.12

7

Initial Calibration Verification**Job Number:** JA58900**Account:** ENSRMAA AECOM, INC.**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA**Sample:** E3P29-ICV27**Lab FileID:** 3P610.D

Page 1 of 1

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\29\3P610.D Vial: 4
 Acq On : 26 Oct 2010 10:45 am Operator: kristis
 Sample : icv27-50 Inst : GC3P
 Misc : op46181,e3p29,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Tue Oct 26 18:42:47 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.

24 I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	9.39
38 t	Naphthalene	1.110	0.981	11.6	107	0.00	9.43
47 I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00	12.87
----- True Calc. % Drift -----							
48 t	Hexachlorocyclopentadiene	50.000	59.473	-18.0	134	0.00	11.24
56 t	Acenaphthylene	1.969	1.695	13.9	101	-0.01	12.56
59 t	Acenaphthene	1.246	1.104	11.4	104	0.00	12.93
66 t	Fluorene	1.350	1.177	12.8	98	-0.02	13.94
69 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00	15.79
77 t	Phenanthrene	1.140	1.020	10.5	110	0.00	15.83
78 t	Anthracene	1.140	0.982	13.9	109	-0.01	15.92
81 t	Fluoranthene	1.262	1.057	16.2	101	-0.02	17.90
83 I	Chrysene-d12	1.000	1.000	0.0	118	0.00	19.95
84 t	Pyrene	1.412	1.178	16.6	101	-0.02	18.23
88 t	Benzo[a]anthracene	1.133	0.950	16.2	106	0.00	19.93
90 t	Chrysene	0.962	0.826	14.1	105	0.00	19.98
92 I	Perylene-d12	1.000	1.000	0.0	117	0.00	21.79
94 t	Benzo[b]fluoranthene	1.605	1.423	11.3	103	0.00	21.29
95 t	Benzo[k]fluoranthene	1.358	1.293	4.8	112	-0.01	21.32
96 t	Benzo[a]pyrene	1.286	1.222	5.0	113	-0.01	21.71
97 t	Indeno[1,2,3-cd]pyrene	1.048	1.245	-18.8	142	-0.02	23.50
99 t	Dibenz[a,h]anthracene	0.797	0.940	-17.9	146	-0.02	23.52
101 t	Benzo[g,h,i]perylene	0.800	0.919	-14.9	135	-0.03	23.98

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Fri Oct 29 09:49:37 2010 RPT1

7.7.13

7

Continuing Calibration Summary

Job Number: JA58900

Sample: E3P33-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P693.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\33\3P693.D

Vial: 2

Acq On : 1 Nov 2010 10:51 am

Operator: kristis

Sample : cc27-50

Inst : GC3P

Misc : op46181,e3p33,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	135	-0.03	7.00
2 t	1,4-Dioxane	0.397	0.333	16.1	106	-0.04	2.62
3 t	Pyridine	1.249	1.132	9.4	121	-0.13	3.05
4 t	N-Nitrosodimethylamine	0.675	0.475	29.6#	96	-0.08	3.04
5 S	2-Fluorophenol	1.186	1.264	-6.6	140	-0.12	4.97
6 t	Indene	1.929	1.889	2.1	138	-0.04	7.50
7 t	Cumene	2.650	2.494	5.9	130	-0.03	5.70
8 S	Phenol-d5	1.735	1.693	2.4	137	-0.06	6.55
9 t	Phenol	1.843	1.855	-0.7	140	-0.09	6.57
10	Aniline	1.819	1.633	10.2	131	-0.06	6.52
11 t	bis(2-Chloroethyl)ether	1.415	1.312	7.3	135	-0.04	6.64
12 t	2-Chlorophenol	1.374	1.440	-4.8	141	-0.05	6.71
13 t	Decane	1.784	1.324	25.8#	115	-0.02	6.79
14 t	1,3-Dichlorobenzene	1.550	1.550	0.0	138	-0.03	6.93
15 t	1,4-Dichlorobenzene	1.637	1.586	3.1	140	-0.03	7.02
----- True Calc. % Drift -----							
16 t	Benzyl alcohol	50.000	68.067	-36.1#	198	0.09	7.62
----- AvgRF CCRF % Dev -----							
17 t	1,2-Dichlorobenzene	1.548	1.545	0.2	137	-0.03	7.36
18 t	Acetophenone	1.773	1.842	-3.9	146	-0.05	7.81
19 t	2-Methylphenol	1.292	1.253	3.0	139	-0.05	7.62
20 t	2,2'-oxybis(1-Chloropropa	0.411	0.428	-4.1	147	-0.04	7.62
21 t	3&4-Methylphenol	1.281	1.356	-5.9	145	-0.09	7.90
22 t	n-Nitroso-di-n-propylamin	1.029	0.964	6.3	131	-0.02	7.89
23 t	Hexachloroethane	0.567	0.617	-8.8	157	-0.03	7.90
24 I	Naphthalene-d8	1.000	1.000	0.0	142	-0.02	9.38
25 S	Nitrobenzene-d5	0.433	0.388	10.4	133	-0.05	8.08
26 t	Nitrobenzene	0.179	0.185	-3.4	144	-0.04	8.12
27 t	Quinoline	0.611	0.652	-6.7	150	-0.06	10.11
28 t	Isophorone	0.722	0.648	10.2	134	-0.02	8.56
29 t	2-Nitrophenol	0.205	0.216	-5.4	148	-0.06	8.71
30 t	2,4-Dimethylphenol	0.311	0.328	-5.5	144	-0.06	8.88
31 t	Benzoic acid	0.199	0.235	-18.1	209	0.06	9.27
32 t	bis(2-Chloroethoxy)methan	0.458	0.428	6.6	137	-0.05	9.04
33 t	2,4-Dichlorophenol	0.288	0.325	-12.8	157	-0.11	9.19
34 t	2,6-Dichlorophenol	0.291	0.327	-12.4	160	-0.05	9.62
35	1,3,5-Trichlorobenzene	0.333	0.355	-6.6	155	-0.03	8.71
36 t	1,2,4-Trichlorobenzene	0.331	0.351	-6.0	156	-0.02	9.31
37	1,2,3-Trichlorobenzene	0.314	0.345	-9.9	156	-0.03	9.78

Continuing Calibration Summary

Page 2 of 3

Job Number: JA58900

Sample: E3P33-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P693.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

38 t	Naphthalene	1.110	1.082	2.5	146	-0.02	9.41
39 t	4-Chloroaniline	0.443	0.458	-3.4	152	-0.06	9.62
40 t	2,3-Dichloroaniline	0.342	0.367	-7.3	152	-0.03	11.43
41 t	Caprolactam	0.186	0.160	14.0	135	0.02	10.32
42 t	Hexachlorobutadiene	0.193	0.220	-14.0	167	-0.03	9.79
43 t	4-Chloro-3-methylphenol	0.281	0.316	-12.5	156	-0.09	10.67
44 t	2-Methylnaphthalene	0.721	0.752	-4.3	153	-0.03	10.77
45 t	1-Methylnaphthalene	0.662	0.677	-2.3	151	-0.02	10.98
46 t	Dimethylnaphthalene	0.553	0.610	-10.3	161	-0.03	12.03
47 I	Acenaphthene-d10	1.000	1.000	0.0	158	-0.02	12.86
----- True Calc. % Drift -----							
48 t	Hexachlorocyclopentadiene	100.000	102.171	-2.2	172	-0.02	11.23
----- AvgRF CCRF % Dev -----							
49 t	2,4,6-Trichlorophenol	0.371	0.398	-7.3	166	-0.05	11.44
50 t	2,4,5-Trichlorophenol	0.397	0.448	-12.8	171	-0.08	11.54
51 S	2-Fluorobiphenyl	1.442	1.410	2.2	159	-0.02	11.58
52 t	2-Chloronaphthalene	1.253	1.247	0.5	161	-0.03	11.73
53 t	Biphenyl	1.559	1.481	5.0	156	-0.03	11.73
54 t	2-Nitroaniline	0.426	0.347	18.5	134	-0.06	12.06
55 t	Dimethylphthalate	1.285	1.293	-0.6	164	-0.02	12.51
56 t	Acenaphthylene	1.969	1.852	5.9	155	-0.02	12.55
57 t	2,6-Dinitrotoluene	0.280	0.287	-2.5	164	-0.03	12.63
58 t	3-Nitroaniline	0.349	0.347	0.6	158	-0.09	12.90
59 t	Acenaphthene	1.246	1.142	8.3	151	-0.01	12.92
----- True Calc. % Drift -----							
60 t	2,4-Dinitrophenol	100.000	128.423	-28.4#	241	-0.01	13.12
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.168	0.163	3.0	145	0.00	13.37
62 t	Dibenzofuran	1.692	1.661	1.8	159	-0.03	13.24
63 t	2,4-Dinitrotoluene	0.376	0.406	-8.0	171	-0.05	13.42
64	2,3,4,6-Tetrachlorophenol	0.304	0.352	-15.8	173	-0.04	13.62
65 t	Diethylphthalate	1.412	1.414	-0.1	161	-0.01	13.94
66 t	Fluorene	1.350	1.343	0.5	157	-0.03	13.93
67 t	4-Chlorophenyl-phenylethe	0.589	0.621	-5.4	168	-0.02	13.98
68 t	4-Nitroaniline	0.353	0.335	5.1	157	-0.09	14.14
69 I	Phenanthrene-d10	1.000	1.000	0.0	159	-0.01	15.78
----- True Calc. % Drift -----							
70 t	4,6-Dinitro-2-methylpheno	50.000	53.744	-7.5	207	0.00	14.22
----- AvgRF CCRF % Dev -----							
71 t	n-Nitrosodiphenylamine	0.607	0.609	-0.3	162	-0.03	14.25
72 t	1,2-Diphenylhydrazine	1.159	0.953	17.8	144	-0.02	14.29
73 S	2,4,6-Tribromophenol	0.149	0.182	-22.1#	184	-0.05	14.46
74 t	4-Bromophenyl-phenylether	0.248	0.279	-12.5	177	-0.03	14.93
75 t	Hexachlorobenzene	0.304	0.344	-13.2	181	-0.02	15.19
----- True Calc. % Drift -----							
76 t	Pentachlorophenol	100.000	97.865	2.1	142	-0.04	15.59
----- AvgRF CCRF % Dev -----							
77 t	Phenanthrene	1.140	1.099	3.6	161	0.00	15.83
78 t	Anthracene	1.140	1.115	2.2	169	-0.02	15.91
79 t	Carbazole	1.090	1.074	1.5	161	-0.04	16.28

7.7.14

7

Continuing Calibration Summary

Page 3 of 3

Job Number: JA58900

Sample: E3P33-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P693.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

80 t	Di-n-butylphthalate	1.556	1.487	4.4	163	-0.02	17.07
81 t	Fluoranthene	1.262	1.302	-3.2	168	-0.02	17.90
82 t	Octadecane	0.665	0.506	23.9#	135	-0.02	15.74
83 I	Chrysene-d12	1.000	1.000	0.0	154	0.00	19.95
84 t	Pyrene	1.412	1.517	-7.4	169	-0.02	18.23
85 S	Terphenyl-d14	0.812	0.947	-16.6	188	-0.02	18.52
86 t	Butylbenzylphthalate	0.710	0.685	3.5	157	-0.01	19.29
----- True Calc. % Drift -----							
87	Butyl stéarate	50.000	39.626	20.7#	129	-0.01	19.35
----- AvgRF CCRF % Dev -----							
88 t	Benzo[a]anthracene	1.133	1.155	-1.9	168	0.00	19.93
89 t	3,3'-Dichlorobenzidine	0.439	0.469	-6.8	174	-0.03	19.94
90 t	Chrysene	0.962	1.006	-4.6	166	0.00	19.99
91 t	bis(2-Ethylhexyl)phthalat	0.810	0.712	12.1	153	-0.01	20.10
92 I	Perylene-d12	1.000	1.000	0.0	104	0.00	21.79
93 t	Di-n-octylphthalate	2.338	2.601	-11.2	122	0.00	20.84
94 t	Benzo[b]fluoranthene	1.605	1.792	-11.7	116	0.00	21.29
95 t	Benzo[k]fluoranthene	1.358	1.459	-7.4	112	0.00	21.33
96 t	Benzo[a]pyrene	1.286	1.309	-1.8	107	0.00	21.72
97 t	Indeno[1,2,3-cd]pyrene	1.048	1.139	-8.7	116	0.00	23.52
98 t	Dibenz(a,h)acridine	0.853	0.912	-6.9	113	0.00	23.12
99 t	Dibenz[a,h]anthracene	0.797	0.893	-12.0	123	0.00	23.55
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	50.000	51.976	-4.0	122	0.00	21.31
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	0.800	0.940	-17.5	123	0.00	24.02

(#) = Out of Range
3P576.D M3P27.M

SPCC's out = 0 CCC's out = 0
Mon Nov 01 12:27:30 2010 RPT1

7.7.14

7

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58900

Sample: E3P33-CC28

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P694.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\33\3P694.D Vial: 3
 Acq On : 1 Nov 2010 11:20 am Operator: kristis
 Sample : cc28-50 Inst : GC3P
 Misc : op46181,e3p33,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Tue Oct 26 18:42:47 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	155	-0.03	7.00
103	Benzaldehyde	0.720	0.681	5.4	163	-0.03	6.27
104	Acenaphthene-d10a	1.000	1.000	0.0	169	-0.03	12.85
105	Atrazine	0.144	0.169	-17.4	182	-0.03	15.43
106	Chrysene-d12a	1.000	1.000	0.0	151	-0.01	19.94
107	Benzidine	0.462	0.249	46.1#	178	-0.01	18.15
	----- True Calc. % Drift -----						
108	Methyl Parathion	50.000	55.094	-10.2	171	-0.02	16.65
	----- AvgRF CCRF % Dev -----						
109	Parathion	1.400	1.829	-30.6#	184	-0.02	17.34
110	Acenaphthene-d10b	1.000	1.000	0.0	169	-0.03	12.85
111	1,2,4,5-Tetrachlorobenzen	0.592	0.605	-2.2	166	-0.03	11.18

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Mon Nov 01 12:28:20 2010 RPT1

7.7.15

7

Continuing Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: E3P34-CC27

Lab FileID: 3P716.D

Page 1 of 3

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\34\3P716.D

Acq On : 2 Nov 2010 10:34 am

Sample : cc27-25

Misc : op46181,e3p34,1000,,,1,1

MS Integration Params: lscint.p

Vial: 2

Operator: kristis

Inst : GC3P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	136	-0.04	6.99
2 t	1,4-Dioxane	0.397	0.378	4.8	125	-0.04	2.62
3 t	Pyridine	1.249	1.195	4.3	122	-0.11	3.07
4 t	N-Nitrosodimethylamine	0.675	0.488	27.7#	85	-0.07	3.06
5 S	2-Fluorophenol	1.186	1.235	-4.1	126	-0.11	4.98
6 t	Indene	1.929	1.838	4.7	121	-0.04	7.49
7 t	Cumene	2.650	2.469	6.8	118	-0.04	5.69
8 S	Phenol-d5	1.735	1.548	10.8	116	0.00	6.54
9 t	Phenol	1.843	1.759	4.6	121	-0.10	6.56
10	Aniline	1.819	1.585	12.9	111	-0.06	6.51
11 t	bis(2-Chloroethyl)ether	1.415	1.285	9.2	114	-0.05	6.63
12 t	2-Chlorophenol	1.374	1.365	0.7	126	-0.06	6.70
13 t	Decane	1.784	1.344	24.7#	95	-0.04	6.78
14 t	1,3-Dichlorobenzene	1.550	1.542	0.5	131	-0.04	6.92
15 t	1,4-Dichlorobenzene	1.637	1.615	1.3	128	-0.04	7.01
----- True Calc. % Drift -----							
16 t	Benzyl alcohol	25.000	23.190	7.2	122	-0.11	7.43
----- AvgRF CCRF % Dev -----							
17 t	1,2-Dichlorobenzene	1.548	1.526	1.4	128	-0.04	7.35
18 t	Acetophenone	1.773	1.711	3.5	124	-0.06	7.80
19 t	2-Methylphenol	1.292	1.212	6.2	124	-0.06	7.61
20 t	2,2'-oxybis(1-Chloropropa	0.411	0.406	1.2	127	-0.05	7.61
21 t	3&4-Methylphenol	1.281	1.300	-1.5	133	-0.10	7.90
22 t	n-Nitroso-di-n-propylamin	1.029	0.889	13.6	112	-0.04	7.87
23 t	Hexachloroethane	0.567	0.607	-7.1	147	-0.04	7.89
24 I	Naphthalene-d8	1.000	1.000	0.0	134	-0.03	9.36
25 S	Nitrobenzene-d5	0.433	0.381	12.0	109	-0.06	8.07
26 t	Nitrobenzene	0.179	0.184	-2.8	130	-0.05	8.10
27 t	Quinoline	0.611	0.633	-3.6	135	-0.08	10.09
28 t	Isophorone	0.722	0.643	10.9	112	-0.04	8.55
29 t	2-Nitrophenol	0.205	0.208	-1.5	131	-0.06	8.71
30 t	2,4-Dimethylphenol	0.311	0.295	5.1	116	-0.07	8.87
31 t	Benzoic acid	0.199	0.231	-16.1	150	-0.05	9.16
32 t	bis(2-Chloroethoxy)methan	0.458	0.428	6.6	118	-0.06	9.02
33 t	2,4-Dichlorophenol	0.288	0.318	-10.4	141	-0.11	9.20
34 t	2,6-Dichlorophenol	0.291	0.316	-8.6	138	-0.06	9.61
35	1,3,5-Trichlorobenzene	0.333	0.365	-9.6	142	-0.04	8.70
36 t	1,2,4-Trichlorobenzene	0.331	0.353	-6.6	139	-0.03	9.30
37	1,2,3-Trichlorobenzene	0.314	0.342	-8.9	141	-0.04	9.76

Continuing Calibration Summary

Page 2 of 3

Job Number: JA58900

Sample: E3P34-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P716.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

38 t	Naphthalene	1.110	1.078	2.9	129	-0.03	9.40
39 t	4-Chloroaniline	0.443	0.455	-2.7	130	-0.08	9.61
40 t	2,3-Dichloroaniline	0.342	0.367	-7.3	139	-0.04	11.41
41 t	Caprolactam	0.186	0.154	17.2	105	-0.04	10.26
42 t	Hexachlorobutadiene	0.193	0.222	-15.0	154	-0.04	9.78
43 t	4-Chloro-3-methylphenol	0.281	0.305	-8.5	131	-0.10	10.66
44 t	2-Methylnaphthalene	0.721	0.743	-3.1	134	-0.05	10.76
45 t	1-Methylnaphthalene	0.662	0.664	-0.3	130	-0.04	10.97
46 t	Dimethylnaphthalene	0.553	0.594	-7.4	140	-0.04	12.01
47 I	Acenaphthene-d10	1.000	1.000	0.0	148	-0.03	12.84
----- True Calc. % Drift -----							
48 t	Hexachlorocyclopentadiene	50.000	47.180	5.6	146	-0.04	11.21
----- AvgRF CCRF % Dev -----							
49 t	2,4,6-Trichlorophenol	0.371	0.382	-3.0	146	-0.06	11.43
50 t	2,4,5-Trichlorophenol	0.397	0.426	-7.3	141	-0.10	11.52
51 S	2-Fluorobiphenyl	1.442	1.401	2.8	140	-0.04	11.55
52 t	2-Chloronaphthalene	1.253	1.217	2.9	140	-0.04	11.71
53 t	Biphenyl	1.559	1.463	6.2	136	-0.04	11.71
54 t	2-Nitroaniline	0.426	0.340	20.2#	106	-0.08	12.04
55 t	Dimethylphthalate	1.285	1.287	-0.2	146	-0.04	12.50
56 t	Acenaphthylene	1.969	1.867	5.2	133	-0.04	12.53
57 t	2,6-Dinitrotoluene	0.280	0.286	-2.1	139	-0.05	12.62
58 t	3-Nitroaniline	0.349	0.353	-1.1	138	-0.10	12.88
59 t	Acenaphthene	1.246	1.167	6.3	136	-0.03	12.90
----- True Calc. % Drift -----							
60 t	2,4-Dinitrophenol	50.000	69.166	-38.3#	205	-0.02	13.11
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.168	0.149	11.3	131	0.00	13.38
62 t	Dibenzofuran	1.692	1.660	1.9	142	-0.05	13.23
63 t	2,4-Dinitrotoluene	0.376	0.389	-3.5	145	-0.07	13.40
64	2,3,4,6-Tetrachlorophenol	0.304	0.343	-12.8	154	-0.05	13.61
65 t	Diethylphthalate	1.412	1.369	3.0	139	-0.03	13.92
66 t	Fluorene	1.350	1.316	2.5	138	-0.04	13.91
67 t	4-Chlorophenyl-phenylethe	0.589	0.631	-7.1	155	-0.04	13.96
68 t	4-Nitroaniline	0.353	0.331	6.2	129	-0.11	14.12
69 I	Phenanthrene-d10	1.000	1.000	0.0	152	-0.03	15.76
----- True Calc. % Drift -----							
70 t	4,6-Dinitro-2-methylpheno	25.000	26.919	-7.7	176	-0.02	14.21
----- AvgRF CCRF % Dev -----							
71 t	n-Nitrosodiphenylamine	0.607	0.597	1.6	143	-0.05	14.23
72 t	1,2-Diphenylhydrazine	1.159	0.826	28.7#	104	-0.04	14.27
73 S	2,4,6-Tribromophenol	0.149	0.178	-19.5	176	-0.06	14.45
74 t	4-Bromophenyl-phenylether	0.248	0.272	-9.7	158	-0.04	14.92
75 t	Hexachlorobenzene	0.304	0.334	-9.9	162	-0.03	15.18
----- True Calc. % Drift -----							
76 t	Pentachlorophenol	50.000	47.742	4.5	175	-0.06	15.57
----- AvgRF CCRF % Dev -----							
77 t	Phenanthrene	1.140	1.091	4.3	146	-0.03	15.81
78 t	Anthracene	1.140	1.116	2.1	147	-0.03	15.90
79 t	Carbazole	1.090	1.078	1.1	145	-0.06	16.26

7.7.16

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Continuing Calibration Summary

Page 3 of 3

Job Number: JA58900

Sample: E3P34-CC27

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P716.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

80 t	Di-n-butylphthalate	1.556	1.476	5.1	141	-0.03	17.06
81 t	Fluoranthene	1.262	1.271	-0.7	151	-0.03	17.88
82 t	Octadecane	0.665	0.493	25.9#	110	-0.03	15.73
83 I	Chrysene-d12	1.000	1.000	0.0	169	-0.01	19.94
84 t	Pyrene	1.412	1.299	8.0	147	-0.03	18.21
85 S	Terphenyl-d14	0.812	0.838	-3.2	169	-0.03	18.51
86 t	Butylbenzylphthalate	0.710	0.621	12.5	144	-0.02	19.28
----- True Calc. % Drift -----							
87	Butyl stearate	25.000	17.758	29.0#	112	-0.02	19.34
----- AvgRF CCRF % Dev -----							
88 t	Benzo[a]anthracene	1.133	1.092	3.6	164	-0.02	19.91
89 t	3,3'-Dichlorobenzidine	0.439	0.452	-3.0	171	-0.04	19.92
90 t	Chrysene	0.962	0.976	-1.5	165	-0.02	19.97
91 t	bis(2-Ethylhexyl)phthalat	0.810	0.736	9.1	150	-0.02	20.09
92 I	Perylene-d12	1.000	1.000	0.0	172	-0.02	21.78
93 t	Di-n-octylphthalate	2.338	2.003	14.3	142	-0.02	20.83
94 t	Benzo[b]fluoranthene	1.605	1.623	-1.1	164	-0.02	21.27
95 t	Benzo[k]fluoranthene	1.358	1.188	12.5	156	-0.02	21.30
96 t	Benzo[a]pyrene	1.286	1.216	5.4	159	-0.02	21.70
97 t	Indeno[1,2,3-cd]pyrene	1.048	1.181	-12.7	189	-0.03	23.49
98 t	Dibenz(a,h)acridine	0.853	0.919	-7.7	178	-0.03	23.09
99 t	Dibenz[a,h]anthracene	0.797	0.926	-16.2	201	-0.03	23.51
----- True Calc. % Drift -----							
100 t	7,12-Dimethylbenz(a)anthr	25.000	22.818	8.7	165	-0.02	21.29
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	0.800	0.955	-19.4	196	-0.04	23.98

(#) = Out of Range
3P581.D M3P27.M

SPCC's out = 0 CCC's out = 0
Tue Nov 02 12:43:17 2010 RPT1

7.7.16

7

Continuing Calibration Summary

Page 1 of 1

Job Number: JA58900

Sample: E3P34-CC28

Account: ENSRMAA AECOM, INC.

Lab FileID: 3P717.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\34\3P717.D

Vial: 3

Acq On : 2 Nov 2010 11:04 am

Operator: kristis

Sample : cc28-50

Inst : GC3P

Misc : op46181,e3p34,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P27.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Oct 26 18:42:47 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.

102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	91	-0.04	6.99
103	Benzaldehyde	0.720	0.673	6.5	95	-0.03	6.27
104	Acenaphthene-d10a	1.000	1.000	0.0	97	-0.04	12.84
105	Atrazine	0.144	0.165	-14.6	102	-0.04	15.42
106	Chrysene-d12a	1.000	1.000	0.0	94	-0.02	19.94
107	Benzidine	0.462	0.231	50.0#	103	-0.01	18.15

		True	Calc.	% Drift	-----		
108	Methyl Parathion	50.000	48.495	3.0	94	-0.03	16.65

		AvgRF	CCRF	% Dev	-----		
109	Parathion	1.400	1.511	-7.9	95	-0.03	17.34
110	Acenaphthene-d10b	1.000	1.000	0.0	97	-0.04	12.84
111	1,2,4,5-Tetrachlorobenzen	0.592	0.610	-3.0	96	-0.03	11.17

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

3P576.D M3P27.M

Tue Nov 02 12:44:37 2010 RPT1

7.7.17

7

Initial Calibration Summary

Page 1 of 3

Job Number: JA58900

Sample: EF4329-ICC4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92480.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, 2B-5MSi 15m x .25mm x .25um
 Last Update : Wed Nov 10 15:30:27 2010
 Response via : Initial Calibration

Calibration Files

2 =F92483.D 5 =F92484.D 25 =F92486.D 80 =F92487.D
 100 =F92481.D 50 =F92480.D 1 =F92482.D 10 =F92485.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
-----ISTD-----										
1) I 1,4-Dichlorobenzene-d										
2) 1,4-Dioxane	0.680	0.760	0.573	0.603	0.657	0.638		0.707	0.660	9.57
3) Pyridine	1.675	1.479	1.391	1.489	1.470	1.396	2.044	1.586	1.566	13.71
4) N-Nitrosodim	0.964	0.941	0.860	0.900	0.911	0.862	1.146	0.973	0.944	9.72
5) 2-Fluorophen	1.157	1.284	1.247	1.347	1.354	1.307	1.395	1.343	1.304	5.75
6) Indene	1.949	2.008	1.869	1.858	1.800	1.894	2.196	2.046	1.952	6.53
7) Cumene	2.702	2.743	2.520	2.467	2.412	2.574	3.081	2.866	2.670	8.41
8) Phenol-d5	1.216	1.645	1.665	1.657	1.626	1.741	1.338	1.773	1.583	12.49
9) Phenol	1.333	1.748	1.786	1.751	1.706	1.832	1.682	1.877	1.714	9.73
10) Aniline	1.993	2.200	1.825	1.611	1.612	1.738		2.153	1.876	12.99
11) bis(2-Chloro	1.459	1.546	1.326	1.265	1.247	1.333	1.608	1.536	1.415	9.86
12) 2-Chlorophen	1.197	1.336	1.307	1.267	1.247	1.310	1.174	1.440	1.285	6.55
13) Decane	1.562	1.652	1.460	1.373	1.325	1.473	1.863	1.611	1.540	11.17
14) 1,3-Dichloro	1.653	1.670	1.533	1.476	1.445	1.539	1.851	1.680	1.606	8.31
15) 1,4-Dichloro	1.593	1.619	1.495	1.440	1.381	1.482	1.763	1.658	1.554	8.13
16) Benzyl alcoh	0.597	0.869	0.874	0.826	0.790	0.908	0.673	0.941	0.810	14.69
17) 1,2-Dichloro	1.589	1.567	1.396	1.279	1.194	1.367	1.809	1.626	1.478	13.80
18) Acetophenone	1.574	1.796	1.749	1.729	1.712	1.764	1.377	1.894	1.699	9.29
19) 2-Methylphen	0.741	1.129	1.152	1.176	1.131	1.196		1.229	1.108	14.96
20) 2,2'-oxybis(0.414	0.452	0.400	0.386	0.368	0.395	0.461	0.446	0.415	8.22
21) 3&4-Methylph	0.832	1.274	1.223	1.141	1.048	1.227		1.370	1.159	15.18
----- Linear regression ----- Coefficient = 0.9930										
Response Ratio = 0.06371 + 1.07293 *A										
22) n-Nitroso-di	0.934	0.972	0.896	0.824	0.816	0.903	0.983	1.001	0.916	7.64
23) Hexachloroet	0.571	0.588	0.520	0.474	0.454	0.507	0.705	0.596	0.552	14.65
-----ISTD-----										
24) I Naphthalene-d8										
25) Nitrobenzene	0.376	0.405	0.392	0.397	0.389	0.394	0.382	0.425	0.395	3.78
26) Nitrobenzene	0.162	0.197	0.183	0.179	0.173	0.182	0.183	0.199	0.182	6.61
27) Quinoline	0.590	0.702	0.675	0.705	0.681	0.695	0.719	0.732	0.687	6.31
28) Isophorone	0.705	0.766	0.687	0.676	0.653	0.689	0.943	0.767	0.736	12.63
29) 2-Nitropheno	0.133	0.178	0.188	0.186	0.172	0.187	0.155	0.193	0.174	11.68
30) 2,4-Dimethyl	0.244	0.295	0.310	0.350	0.335	0.337	0.330	0.309	0.314	10.64
31) Benzoic acid	0.106	0.172	0.248	0.289	0.276	0.212		0.237	0.220	28.87
----- Quadratic regression ----- Coefficient = 0.9910										
Response Ratio = -0.00194 + 0.20813 *A + 0.03019 *A^2										
32) bis(2-Chloro	0.399	0.483	0.441	0.446	0.428	0.453	0.415	0.483	0.444	6.77
33) 2,4-Dichloro	0.223	0.322	0.328	0.338	0.322	0.332		0.340	0.315	13.02
34) 2,6-Dichloro	0.248	0.323	0.319	0.323	0.304	0.320	0.287	0.347	0.309	9.70
35) 1,3,5-Trichl	0.375	0.409	0.358	0.342	0.319	0.352	0.450	0.403	0.376	11.29
36) 1,2,4-Trichl	0.378	0.398	0.361	0.348	0.326	0.357	0.455	0.398	0.378	10.53
37) 1,2,3-Trichl	0.370	0.387	0.347	0.343	0.327	0.346	0.454	0.382	0.369	10.86
38) Naphthalene	1.111	1.149	1.033	0.997	0.957	1.041	1.335	1.137	1.095	10.81
39) 4-Chloroanil	0.441	0.505	0.449	0.406	0.377	0.437	0.423	0.513	0.444	10.40

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Initial Calibration Summary

Page 2 of 3

Job Number: JA58900

Sample: EF4329-ICC4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92480.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

40)	2,3-Dichloro	0.379	0.411	0.377	0.359	0.353	0.367	0.470	0.411	0.391	9.89
41)	Caprolactam	0.194	0.204	0.187	0.210	0.208	0.196	0.231	0.196	0.203	6.67
42)	Hexachlorobu	0.226	0.225	0.204	0.199	0.185	0.199	0.289	0.228	0.219	14.62
43)	4-Chloro-3-m	0.261	0.307	0.313	0.329	0.316	0.322	0.258	0.324	0.304	9.30
44)	2-Methylnaph	0.785	0.843	0.759	0.724	0.674	0.753	0.899	0.851	0.786	9.44
45)	1-Methylnaph	0.756	0.775	0.688	0.677	0.644	0.697	0.877	0.783	0.737	10.26
46)	Dimethylnaph	0.661	0.701	0.623	0.604	0.575	0.610	0.833	0.710	0.665	12.47
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.193	0.224	0.246	0.265	0.262	0.269	0.231	0.246	0.242	10.47
49)	2,4,6-Trichl	0.345	0.389	0.379	0.362	0.352	0.371	0.418	0.402	0.377	6.63
50)	2,4,5-Trichl	0.365	0.458	0.426	0.419	0.405	0.418	0.425	0.463	0.422	7.28
51)	2-Fluorobiph	1.507	1.504	1.359	1.244	1.197	1.313	1.785	1.525	1.429	13.33
52)	2-Chloronaph	1.260	1.307	1.158	1.053	1.019	1.115	1.515	1.288	1.214	13.35
53)	Biphenyl	1.526	1.573	1.382	1.228	1.176	1.305	1.819	1.556	1.446	14.74
54)	2-Nitroanili	0.305	0.347	0.327	0.316	0.312	0.323	0.297	0.354	0.323	6.14
55)	Dimethylphth	1.449	1.448	1.258	1.173	1.132	1.220	1.710	1.412	1.350	14.18
56)	Acenaphthyle	1.946	1.988	1.832	1.703	1.660	1.791	2.280	2.000	1.900	10.48
57)	2,6-Dinitrot	0.218	0.261	0.265	0.279	0.268	0.271	0.262	0.278	0.263	7.30
58)	3-Nitroanili	0.252	0.312	0.303	0.281	0.267	0.302		0.321	0.291	8.71
59)	Acenaphthene	1.267	1.229	1.083	0.967	0.922	1.059	1.519	1.203	1.156	16.57
----- Linear regression ----- Coefficient = 0.9960											
Response Ratio = 0.05605 + 0.92999 *A											
60)	2,4-Dinitrop	0.034	0.064	0.108	0.161	0.156	0.129		0.089	0.106	44.48
----- Linear regression ----- Coefficient = 0.9920											
Response Ratio = -0.03866 + 0.16293 *A											
61)	4-Nitropheno	0.113	0.134	0.157	0.153	0.147		0.125	0.138		12.42
62)	Dibenzofuran	1.858	1.877	1.643	1.526	1.453	1.576		1.829	1.680	10.32
63)	2,4-Dinitrot	0.266	0.371	0.384	0.381	0.360	0.386	0.303	0.393	0.355	12.96
64)	2,3,4,6-Tetr	0.308	0.367	0.360	0.356	0.340	0.352	0.354	0.377	0.352	5.85
65)	Diethylphtha	1.407	1.393	1.189	1.068	1.026	1.131		1.360	1.225	13.07
66)	Fluorene	1.450	1.457	1.312	1.227	1.180	1.265	1.756	1.447	1.387	13.28
67)	4-Chlorophen	0.737	0.724	0.638	0.571	0.545	0.606		0.715	0.648	12.02
68)	4-Nitroanili	0.339	0.328	0.328	0.318	0.324		0.334	0.329		2.20
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.081	0.115	0.144	0.139	0.124		0.106	0.118		19.51
----- Linear regression ----- Coefficient = 0.9962											
Response Ratio = -0.01337 + 0.14482 *A											
71)	n-Nitrosodip	0.566	0.600	0.539	0.498	0.471	0.532	0.662	0.606	0.559	11.12
72)	1,2-Diphenyl	0.837	0.833	0.739	0.675	0.637	0.735	0.980	0.849	0.786	14.09
73)	2,4,6-Tribro	0.077	0.101	0.099	0.102	0.095	0.096	0.094	0.107	0.096	9.43
74)	4-Bromopheny	0.235	0.253	0.236	0.225	0.214	0.228	0.302	0.261	0.244	11.29
75)	Hexachlorobe	0.261	0.269	0.238	0.224	0.207	0.229		0.263	0.242	9.55
76)	Pentachlorop	0.110	0.150	0.154	0.150	0.139	0.145	0.127	0.160	0.142	11.57
77)	Phenanthrene	1.236	1.208	1.071	1.030	0.983	1.059	1.611	1.225	1.178	16.96
----- Linear regression ----- Coefficient = 0.9986											
Response Ratio = 0.03802 + 0.99123 *A											
78)	Anthracene	1.368	1.314	1.131	0.971	0.914	1.045	1.768	1.281	1.224	22.45
----- Linear regression ----- Coefficient = 0.9954											
Response Ratio = 0.07009 + 0.91948 *A											
79)	Carbazole	1.135	1.135	1.048	0.995	0.939	1.054	1.304	1.164	1.097	10.34
80)	Di-n-butylph	1.214	1.317	1.237	1.182	1.135	1.280	1.492	1.376	1.279	8.99
81)	Fluoranthene	1.365	1.371	1.247	1.193	1.123	1.255	1.742	1.402	1.337	14.17
82)	Octadecane	0.491	0.517	0.476	0.415	0.399	0.464	0.548	0.533	0.480	11.10

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Initial Calibration Summary

Page 3 of 3

Job Number: JA58900

Sample: EF4329-ICC4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92480.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

83) I Chrysene-d12 -----ISTD-----
84) Pyrene 1.312 1.307 1.176 1.172 1.109 1.193 1.598 1.308 1.272 11.97
85) Terphenyl-d1 0.833 0.820 0.748 0.781 0.718 0.770 0.992 0.837 0.812 10.32
86) Butylbenzylp 0.454 0.484 0.475 0.502 0.478 0.507 0.535 0.497 0.492 4.95
87) Butyl steara 0.422 0.423 0.331 0.311 0.288 0.339 0.375 0.356 14.84
88) Benzo[a]anth 1.125 1.134 1.043 1.114 1.050 1.109 1.442 1.134 1.144 10.97
89) 3,3'-Dichlor 0.360 0.398 0.381 0.383 0.353 0.392 0.458 0.413 0.392 8.37
90) Chrysene 1.256 1.189 1.009 0.943 0.890 0.977 1.569 1.141 1.122 19.71
----- Linear regression ----- Coefficient = 0.9978
Response Ratio = 0.04588 + 0.89861 *A

91) bis(2-Ethylh 0.611 0.691 0.662 0.693 0.645 0.702 0.731 0.716 0.681 5.81

92) I Perylene-d12 -----ISTD-----
93) Di-n-octylph 1.004 1.263 1.352 1.341 1.304 1.451 1.186 1.373 1.284 10.73
94) Benzo[b]fluo 0.928 1.147 1.138 1.294 1.378 1.395 1.110 1.205 1.199 12.90
95) Benzo[k]fluo 1.680 1.606 1.401 1.073 0.865 1.108 2.140 1.543 1.427 28.54
----- Quadratic regression ----- Coefficient = 0.9942
Response Ratio = 0.01725 + 1.47881 *A + -0.23916 *A^2

96) Benzo[a]pyre 0.980 1.323 1.211 1.187 1.112 1.224 1.146 1.326 1.189 9.53
97) Indeno[1,2,3 1.124 1.311 1.290 1.297 1.230 1.304 1.395 1.382 1.292 6.63
98) Dibenz(a,h)a 0.733 0.861 0.928 0.992 0.952 0.987 0.945 0.970 0.921 9.39
99) Dibenz[a,h]a 0.934 1.056 1.044 1.051 0.987 1.076 1.103 1.138 1.049 6.11
100) 7,12-Dimethy 0.452 0.477 0.498 0.466 0.444 0.494 0.564 0.506 0.487 7.78
101) Benzo[g,h,i] 1.051 1.135 1.120 1.129 1.071 1.108 1.328 1.188 1.141 7.54

(#) = Out of Range ### Number of calibration levels exceeded format ###

MF4329.M

Fri Nov 12 16:46:34 2010

GCMS3A

7.7.18

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Initial Calibration Summary

Page 1 of 1

Job Number: JA58900 Sample: EF4330-ICC4330
 Account: ENSRMAA AECOM, INC. Lab FileID: F92489.D
 Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, 2B-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration

Calibration Files

2 =F92491.D 5 =F92492.D 25 =F92494.D 80 =F92495.D
 100 =F92496.D 50 =F92489.D 1 =F92490.D 10 =F92493.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
102) i 1,4-Dichlorobenzene-d	-----ISTD-----									
103) Benzaldehyde	1.033	0.999	0.980	0.855		0.971	0.740	0.969	0.935	10.93
104) Acenaphthene-d10a	-----ISTD-----									
105) 1,2,4,5-Tetr	0.578	0.579	0.601	0.575	0.518	0.587	0.427	0.579	0.556	10.30
106) i Phenanthrene-d10a	-----ISTD-----									
107) Atrazine	0.169	0.175	0.201	0.201		0.202		0.180	0.188	7.95
108) i Chrysene-d12a	-----ISTD-----									
109) Benzidine	0.547	0.499	0.532	0.306	0.248	0.592	0.507	0.514	0.468	26.17

(#) = Out of Range ### Number of calibration levels exceeded format ###										

MF4329.M Thu Oct 21 12:26:29 2010 GCMS3A

7.7.19

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Initial Calibration Verification

Page 1 of 2

Job Number: JA58900

Sample: EF4330-ICV4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92497.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330\F92497.D

Vial: 10

Acq On : 20 Oct 2010 4:24 pm

Operator: ninap

Sample : icv4329-50

Inst : MSF

Misc : op46122,ef4330,bn#1 2nd source

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:02:09 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	3.33
3 t	Pyridine	1.566	1.539	1.7	107	0.00	1.28
4 t	N-Nitrosodimethylamine	0.944	0.938	0.6	106	0.00	1.27
11 t	bis(2-Chloroethyl)ether	1.415	1.402	0.9	102	0.00	3.10
14 t	1,3-Dichlorobenzene	1.606	1.642	-2.2	104	0.00	3.29
15 t	1,4-Dichlorobenzene	1.554	1.564	-0.6	103	0.00	3.35
16 t	Benzyl alcohol	0.810	0.931	-14.9	100	0.00	3.55
17 t	1,2-Dichlorobenzene	1.478	1.500	-1.5	107	0.00	3.57
20 t	2,2'-oxybis(1-Chloropropa	0.415	0.437	-5.3	108	0.00	3.75
22 t	n-Nitroso-di-n-propylamin	0.916	0.956	-4.4	103	-0.01	3.92
23 t	Hexachloroethane	0.552	0.550	0.4	106	0.00	3.95
24 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	5.00
26 t	Nitrobenzene	0.182	0.196	-7.7	100	0.00	4.08
28 t	Isophorone	0.736	0.747	-1.5	101	0.00	4.40
	----- AvgRF CCRF % Dev -----						
32 t	bis(2-Chloroethoxy)methan	0.444	0.493	-11.0	101	0.00	4.77
36 t	1,2,4-Trichlorobenzene	0.378	0.385	-1.9	100	0.00	4.95
38 t	Naphthalene	1.095	1.106	-1.0	99	0.00	5.02
42 t	Hexachlorobutadiene	0.219	0.221	-0.9	103	0.00	5.33
44 t	2-Methylnaphthalene	0.786	0.734	6.6	90	0.00	6.05
47 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00	7.66
48 t	Hexachlorocyclopentadiene	0.242	0.314	-30.0#	102	0.00	6.43
52 t	2-Chloronaphthalene	1.214	1.233	-1.6	98	-0.01	6.78
54 t	2-Nitroaniline	0.323	0.338	-4.6	92	0.00	7.04
55 t	Dimethylphthalate	1.350	1.243	7.9	90	0.00	7.44
56 t	Acenaphthylene	1.900	1.822	4.1	90	0.00	7.41
57 t	2,6-Dinitrotoluene	0.263	0.276	-4.9	90	0.00	7.51
58 t	3-Nitroaniline	0.291	0.273	6.2	80	-0.01	7.69
	----- True Calc. % Drift -----						
59 t	Acenaphthene	50.000	58.621	-17.2	95	0.00	7.71
	----- AvgRF CCRF % Dev -----						
62 t	Dibenzofuran	1.680	1.688	-0.5	94	0.00	7.97
63 t	2,4-Dinitrotoluene	0.355	0.365	-2.8	83	0.00	8.10
65 t	Diethylphthalate	1.225	1.160	5.3	90	-0.02	8.56
66 t	Fluorene	1.387	1.380	0.5	96	-0.01	8.50
67 t	4-Chlorophenyl-phenylethe	0.648	0.615	5.1	89	0.00	8.57
68 t	4-Nitroaniline	0.329	0.318	3.3	87	-0.01	8.66

Initial Calibration Verification

Page 2 of 2

Job Number: JA58900

Sample: EF4330-ICV4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92497.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

69	I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00	9.94
71	t	n-Nitrosodiphenylamine	0.559	0.555	0.7	90	0.00	8.78
72	t	1,2-Diphenylhydrazine	0.786	0.802	-2.0	94	0.00	8.81
74	t	4-Bromophenyl-phenylether	0.244	0.251	-2.9	95	0.00	9.32
75	t	Hexachlorobenzene	0.242	0.253	-4.5	95	0.00	9.48
----- True Calc. % Drift -----								
77	t	Phenanthrene	50.000	56.783	-13.6	94	-0.01	9.97
78	t	Anthracene	50.000	50.661	-1.3	103	0.00	10.04
----- AvgRF CCRF % Dev -----								
79	t	Carbazole	1.097	1.145	-4.4	94	0.00	10.36
80	t	Di-n-butylphthalate	1.279	1.302	-1.8	88	0.00	11.15
81	t	Fluoranthene	1.337	1.312	1.9	90	0.00	11.78
83	I	Chrysene-d12	1.000	1.000	0.0	86	0.00	13.49
84	t	Pyrene	1.272	1.244	2.2	90	0.00	12.05
86	t	Butylbenzylphthalate	0.492	0.505	-2.6	86	0.00	13.03
88	t	Benzo[a]anthracene	1.144	1.133	1.0	88	-0.01	13.47
----- True Calc. % Drift -----								
90	t	Chrysene	50.000	57.823	-15.6	95	-0.01	13.51
----- AvgRF CCRF % Dev -----								
91	t	bis(2-Ethylhexyl)phthalat	0.681	0.712	-4.6	88	0.00	13.72
92	I	Perylene-d12	1.000	1.000	0.0	89	0.00	14.86
93	t	Di-n-octylphthalate	1.284	1.423	-10.8	87	0.00	14.31
94	t	Benzo[b]fluoranthene	1.199	1.170	2.4	74	-0.01	14.53
----- True Calc. % Drift -----								
95	t	Benzo[k]fluoranthene	50.000	50.547	-1.1	115	0.00	14.56
----- AvgRF CCRF % Dev -----								
96	t	Benzo[a]pyrene	1.189	1.276	-7.3	92	0.00	14.81
97	t	Indeno[1,2,3-cd]pyrene	1.292	1.347	-4.3	92	0.00	15.82
99	t	Dibenz[a,h]anthracene	1.049	1.115	-6.3	92	-0.01	15.85
101	t	Benzo[g,h,i]perylene	1.141	1.172	-2.7	94	-0.01	16.08

(#) = Out of Range
F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
Thu Oct 21 12:09:36 2010 GCMS3A

7.7.20

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: EF4330-ICV4330

Account: ENSRMAA AECOM, INC.

Lab FileID: F92497A.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92497A.D Vial: 10
Acq On : 20 Oct 2010 4:24 pm Operator: ninap
Sample : icv4330-50 Inst : MSF
Misc : op46122,ef4330,bn#1 2nd source Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, 2B-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 i	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	95	0.00	3.33
103 t	Benzaldehyde			-----NA-----			
104	Acenaphthene-d10a	1.000	1.000	0.0	83	0.00	7.66
105	1,2,4,5-Tetrachlorobenzen	0.556	0.642	-15.5	91	0.02	6.38
106 i	Phenanthrene-d10a	1.000	1.000	0.0	76	0.00	9.94
107	Atrazine			-----NA-----			
108 i	Chrysene-d12a	1.000	1.000	0.0	76	0.00	13.49
109 t	Benzidine			-----NA-----			

(#) = Out of Range
F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
Mon Oct 25 09:43:08 2010 GCMS3A

7.7.21

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: EF4330-ICV4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92498.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92498.D Vial: 11
 Acq On : 20 Oct 2010 4:48 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,bn#2 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	3.33
2 t	1,4-Dioxane	0.660	0.620	6.1	94	0.00	1.12
6 t	Indene	1.952	2.001	-2.5	102	0.00	3.67
7 t	Cumene	2.670	2.527	5.4	95	0.00	2.54
13 t	Decane	1.540	1.702	-10.5	112	0.00	3.21
18 t	Acetophenone	1.699	1.981	-16.6	108	0.00	3.87
24 I	Naphthalene-d8	1.000	1.000	0.0	81	0.00	5.00
27 t	Quinoline	0.687	0.783	-14.0	91	-0.02	5.52
40 t	2,3-Dichloroaniline	0.391	0.414	-5.9	92	0.00	6.55
41 t	Caprolactam	0.203	0.217	-6.9	90	-0.06	5.63
45 t	1-Methylnaphthalene	0.737	0.848	-15.1	99	0.00	6.21
46 t	Dimethylnaphthalene	0.665	0.775	-16.5	103	0.00	7.02
47 I	Acenaphthene-d10	1.000	1.000	0.0	85	-0.01	7.66
53 t	Biphenyl	1.446	1.608	-11.2	104	0.00	6.80
69 I	Phenanthrene-d10	1.000	1.000	0.0	84	-0.01	9.93
82 t	Octadecane	0.480	0.576	-20.0	104	0.00	10.03
83 I	Chrysene-d12	1.000	1.000	0.0	85	-0.01	13.49
92 I	Perylene-d12	1.000	1.000	0.0	79	-0.01	14.85
100 t	7,12-Dimethylbenz(a)anthr	0.487	0.585	-20.1#	93	-0.01	14.55

(#) = Out of Range
 F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
 Fri Oct 22 16:09:46 2010 GCMS3A

7.7.22

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: EF4330-ICV4330

Account: ENSRMAA AECOM, INC.

Lab FileID: F92498A.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330\F92498.D Vial: 11
Acq On : 20 Oct 2010 4:48 pm Operator: ninap
Sample : icv4330-50 Inst : MSF
Misc : op46122,ef4330,bn#2 2nd source Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 i	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	94	0.00	3.33
103 t	Benzaldehyde	0.935	1.117	-19.5	108	0.01	2.86
104	Acenaphthene-d10a	1.000	1.000	0.0	80	-0.01	7.66
106 i	Phenanthrene-d10a	1.000	1.000	0.0	75	-0.01	9.93
107	Atrazine	0.188	0.225	-19.7	84	0.00	9.74

(#) = Out of Range
F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
Thu Oct 21 12:20:31 2010 GCMS3A

7.7.23

7

Initial Calibration Verification

Job Number: JA58900

Sample: EF4330-ICV4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92499.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330\F92499.D Vial: 12
 Acq On : 20 Oct 2010 5:13 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,acid 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	3.33
9 t	Phenol	1.714	1.718	-0.2	97	0.00	3.03
12 t	2-Chlorophenol	1.285	1.332	-3.7	105	0.00	3.13
19 t	2-Methylphenol	1.108	1.133	-2.3	98	0.00	3.73
----- True Calc. % Drift -----							
21 t	3&4-Methylphenol	50.000	57.407	-14.8	108	-0.01	3.92
----- AvgRF CCRF % Dev -----							
24 I	Naphthalene-d8	1.000	1.000	0.0	97	0.00	5.00
29 t	2-Nitrophenol	0.174	0.188	-8.0	98	0.00	4.51
30 t	2,4-Dimethylphenol	0.314	0.336	-7.0	97	0.00	4.64
----- True Calc. % Drift -----							
31 t	Benzoic acid	50.000	52.214	-4.4	118	-0.02	4.86
----- AvgRF CCRF % Dev -----							
33 t	2,4-Dichlorophenol	0.315	0.312	1.0	91	0.00	4.85
34	2,6-Dichlorophenol	0.309	0.331	-7.1	100	0.00	5.18
43 t	4-Chloro-3-methylphenol	0.304	0.294	3.3	88	-0.02	5.97
47 I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00	7.66
49 t	2,4,6-Trichlorophenol	0.377	0.386	-2.4	94	-0.01	6.56
50 t	2,4,5-Trichlorophenol	0.422	0.448	-6.2	97	-0.02	6.61
60 t	2,4-Dinitrophenol	100.000	82.164	18.0	72	-0.01	7.85
----- AvgRF CCRF % Dev -----							
61 t	4-Nitrophenol	0.138	0.112	18.8	69	-0.02	8.05
64	2,3,4,6-Tetrachlorophenol	0.352	0.333	5.4	85	0.00	8.26
69 I	Phenanthrene-d10	1.000	1.000	0.0	90	-0.01	9.93
----- True Calc. % Drift -----							
70 t	4,6-Dinitro-2-methylpheno	50.000	43.173	13.7	83	-0.02	8.71
----- AvgRF CCRF % Dev -----							
76 t	Pentachlorophenol	0.142	0.156	-10.0	98	-0.02	9.79
83 I	Chrysene-d12	1.000	1.000	0.0	91	-0.02	13.48
92 I	Perylene-d12	1.000	1.000	0.0	89	-0.01	14.85

7.7.24
7

Initial Calibration Verification

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: EF4330-ICV4329

Lab FileID: F92499.D

Page 2 of 2

(#) = Out of Range
F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
Thu Oct 21 12:22:38 2010 GCMS3A

7.7.24

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: EF4330-ICV4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92500.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330\F92500.D Vial: 13
Acq On : 20 Oct 2010 5:37 pm Operator: ninap
Sample : icv4329-50 Inst : MSF
Misc : op46122,ef4330,3rd source Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	142	0.00	3.33
10 t	Aniline	1.876	2.021	-7.7	165	0.00	3.02
24 I	Naphthalene-d8	1.000	1.000	0.0	141	0.00	5.00
39 t	4-Chloroaniline	0.444	0.449	-1.1	145	0.00	5.18
47 I	Acenaphthene-d10	1.000	1.000	0.0	130	0.00	7.66
69 I	Phenanthrene-d10	1.000	1.000	0.0	137	0.00	9.94
83 I	Chrysene-d12	1.000	1.000	0.0	141	-0.01	13.49
92 I	Perylene-d12	1.000	1.000	0.0	136	0.00	14.86

(#) = Out of Range
F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
Thu Oct 21 12:23:30 2010 GCMS3A

7.7.25

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900

Sample: EF4330-ICV4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92501.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330\F92501.D Vial: 14
Acq On : 20 Oct 2010 6:01 pm Operator: ninap
Sample : icv4329-50 Inst : MSF
Misc : op46122,ef4330,3rd source,benzidine Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	3.33
24 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00	5.00
47 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	7.66
69 I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.01	9.93
83 I	Chrysene-d12	1.000	1.000	0.0	107	-0.01	13.49
89 t	3,3'-Dichlorobenzidine	0.392	0.391	0.3	107	0.00	13.51
92 I	Perylene-d12	1.000	1.000	0.0	106	-0.01	14.85

(#) = Out of Range
F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
Thu Oct 21 12:25:11 2010 GCMS3A

7.7.26

7

Initial Calibration Verification

Page 1 of 1

Job Number: JA58900**Sample:** EF4330-ICV4330**Account:** ENSRMAA AECOM, INC.**Lab FileID:** F92501A.D**Project:** Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4330\F92501.D Vial: 14
 Acq On : 20 Oct 2010 6:01 pm Operator: ninap
 Sample : icv4330-50 Inst : MSF
 Misc : op46122,ef4330,3rd source,benzidene Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	3.33
24 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00	5.00
47 I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	7.66
69 I	Phenanthrene-d10	1.000	1.000	0.0	106	-0.01	9.93
83 I	Chrysene-d12	1.000	1.000	0.0	107	-0.01	13.49
92 I	Perylene-d12	1.000	1.000	0.0	106	-0.01	14.85
102 i	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	101	0.00	3.33
104	Acenaphthene-d10a	1.000	1.000	0.0	96	0.00	7.66
106 i	Phenanthrene-d10a	1.000	1.000	0.0	94	-0.01	9.93
108 i	Chrysene-d12a	1.000	1.000	0.0	94	-0.01	13.49
109 t	Benzidine	0.468	0.737	-57.5#	117	-0.02	12.04

(#) = Out of Range
 F92480.D MF4329.M

SPCC's out = 0 CCC's out = 0
 Thu Oct 21 12:25:11 2010 GCMS3A

7.7.27

7

Continuing Calibration Summary

Page 1 of 3

Job Number: JA58900

Sample: EF4333-CC4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92522.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4333\F92522.D

Vial: 2

Acq On : 21 Oct 2010 3:26 pm

Operator: ninap

Sample : cc4329-25

Inst : MSF

Misc : op46122,ef4333

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	3.33
2 t	1,4-Dioxane	0.660	0.601	8.9	101	0.00	1.12
3 t	Pyridine	1.566	1.417	9.5	98	0.00	1.29
4 t	N-Nitrosodimethylamine	0.944	0.888	5.9	99	0.00	1.27
5 S	2-Fluorophenol	1.304	1.318	-1.1	101	0.00	2.11
6 t	Indene	1.952	1.929	1.2	99	0.00	3.66
7 t	Cumene	2.670	2.624	1.7	100	0.00	2.54
8 S	Phenol-d5	1.583	1.641	-3.7	94	0.00	3.01
9 t	Phenol	1.714	1.764	-2.9	95	-0.01	3.02
10 t	Aniline	1.876	1.810	3.5	95	0.00	3.02
11 t	bis(2-Chloroethyl)ether	1.415	1.333	5.8	96	0.00	3.10
12 t	2-Chlorophenol	1.285	1.304	-1.5	96	0.00	3.13
13 t	Decane	1.540	1.564	-1.6	103	0.00	3.21
14 t	1,3-Dichlorobenzene	1.606	1.548	3.6	97	0.00	3.28
15 t	1,4-Dichlorobenzene	1.554	1.476	5.0	95	0.00	3.35
16 t	Benzyl alcohol	0.810	0.858	-5.9	94	0.00	3.54
17 t	1,2-Dichlorobenzene	1.478	1.428	3.4	98	0.00	3.57
18 t	Acetophenone	1.699	1.687	0.7	92	-0.01	3.86
19 t	2-Methylphenol	1.108	1.133	-2.3	94	0.00	3.73
20 t	2,2'-oxybis(1-Chloropropa	0.415	0.416	-0.2	100	-0.01	3.75
----- True		Calc.	% Drift	-----			
21 t	3&4-Methylphenol	25.000	24.400	2.4	90	-0.01	3.92
----- AvgRF		CCRF	% Dev	-----			
22 t	n-Nitroso-di-n-propylamin	0.916	0.918	-0.2	98	-0.01	3.92
23 t	Hexachloroethane	0.552	0.532	3.6	98	0.00	3.94
24 I	Naphthalene-d8	1.000	1.000	0.0	96	-0.01	4.99
25 S	Nitrobenzene-d5	0.395	0.386	2.3	94	0.00	4.05
26 t	Nitrobenzene	0.182	0.181	0.5	94	-0.01	4.07
27 t	Quinoline	0.687	0.673	2.0	95	-0.02	5.52
28 t	Isophorone	0.736	0.712	3.3	99	-0.01	4.40
29 t	2-Nitrophenol	0.174	0.189	-8.6	96	0.00	4.51
30 t	2,4-Dimethylphenol	0.314	0.309	1.6	95	-0.01	4.63
----- True		Calc.	% Drift	-----			
31 t	Benzoic acid	25.000	29.843	-19.4	105	-0.05	4.82
----- AvgRF		CCRF	% Dev	-----			
32 t	bis(2-Chloroethoxy)methan	0.444	0.440	0.9	95	0.00	4.77
33 t	2,4-Dichlorophenol	0.315	0.309	1.9	90	-0.01	4.84

Continuing Calibration Summary

Job Number: JA58900

Account: ENSRMAA AECOM, INC.

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: EF4333-CC4329

Lab FileID: F92522.D

Page 2 of 3

34	2,6-Dichlorophenol	0.309	0.306	1.0	92	0.00	5.18
35	1,3,5-Trichlorobenzene	0.376	0.371	1.3	99	0.00	4.52
36 t	1,2,4-Trichlorobenzene	0.378	0.367	2.9	97	0.00	4.95
37	1,2,3-Trichlorobenzene	0.369	0.352	4.6	97	-0.01	5.29
38 t	Naphthalene	1.095	1.044	4.7	97	-0.01	5.02
39 t	4-Chloroaniline	0.444	0.436	1.8	93	-0.01	5.18
40 t	2,3-Dichloroaniline	0.391	0.372	4.9	94	0.00	6.55
41 t	Caprolactam	0.203	0.192	5.4	98	-0.05	5.64
42 t	Hexachlorobutadiene	0.219	0.205	6.4	96	0.00	5.33
43 t	4-Chloro-3-methylphenol	0.304	0.316	-3.9	96	-0.01	5.97
44 t	2-Methylnaphthalene	0.786	0.750	4.6	94	-0.01	6.05
45 t	1-Methylnaphthalene	0.737	0.701	4.9	97	-0.01	6.20
46 t	Dimethylnaphthalene	0.665	0.642	3.5	98	-0.01	7.02
47 I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.01	7.66
48 t	Hexachlorocyclopentadiene	0.242	0.269	-11.2	106	0.00	6.42
49 t	2,4,6-Trichlorophenol	0.377	0.387	-2.7	100	-0.01	6.56
50 t	2,4,5-Trichlorophenol	0.422	0.428	-1.4	98	-0.02	6.61
51 S	2-Fluorobiphenyl	1.429	1.348	5.7	97	-0.01	6.69
52 t	2-Chloronaphthalene	1.214	1.148	5.4	97	-0.01	6.78
53 t	Biphenyl	1.446	1.361	5.9	96	-0.01	6.80
54 t	2-Nitroaniline	0.323	0.326	-0.9	97	-0.02	7.03
55 t	Dimethylphthalate	1.350	1.251	7.3	97	-0.01	7.43
56 t	Acenaphthylene	1.900	1.872	1.5	100	-0.01	7.41
57 t	2,6-Dinitrotoluene	0.263	0.281	-6.8	103	-0.01	7.50
58 t	3-Nitroaniline	0.291	0.300	-3.1	97	-0.02	7.69
----- True		Calc.	% Drift	-----			
59 t	Acenaphthene	25.000	26.318	-5.3	96	-0.01	7.71
60 t	2,4-Dinitrophenol	50.000	51.547	-3.1	123	-0.02	7.84
----- AvgRF		CCRF	% Dev	-----			
61 t	4-Nitrophenol	0.138	0.123	10.9	89	-0.02	8.05
62 t	Dibenzofuran	1.680	1.646	2.0	98	-0.02	7.96
63 t	2,4-Dinitrotoluene	0.355	0.379	-6.8	96	-0.02	8.09
64	2,3,4,6-Tetrachlorophenol	0.352	0.366	-4.0	99	-0.01	8.26
65 t	Diethylphthalate	1.225	1.172	4.3	96	-0.02	8.56
66 t	Fluorene	1.387	1.309	5.6	97	-0.02	8.49
67 t	4-Chlorophenyl-phenylethe	0.648	0.621	4.2	95	-0.02	8.56
68 t	4-Nitroaniline	0.329	0.304	7.6	90	-0.03	8.65
69 I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01	9.93
----- True		Calc.	% Drift	-----			
70 t	4,6-Dinitro-2-methylpheno	25.000	26.108	-4.4	112	-0.02	8.71
----- AvgRF		CCRF	% Dev	-----			
71 t	n-Nitrosodiphenylamine	0.559	0.534	4.5	98	-0.02	8.77
72 t	1,2-Diphenylhydrazine	0.786	0.730	7.1	98	-0.02	8.80
73 S	2,4,6-Tribromophenol	0.096	0.102	-6.2	102	-0.02	8.90
74 t	4-Bromophenyl-phenylether	0.244	0.230	5.7	96	-0.01	9.31
75 t	Hexachlorobenzene	0.242	0.239	1.2	100	0.00	9.48
76 t	Pentachlorophenol	0.142	0.161	-13.4	103	-0.02	9.79
----- True		Calc.	% Drift	-----			
77 t	Phenanthrene	25.000	25.124	-0.5	98	-0.02	9.97
78 t	Anthracene	25.000	25.356	-1.4	91	-0.02	10.03
----- AvgRF		CCRF	% Dev	-----			
79 t	Carbazole	1.097	0.992	9.6	94	-0.01	10.35

7.7.28
7

Continuing Calibration Summary

Page 3 of 3

Job Number: JA58900

Sample: EF4333-CC4329

Account: ENSRMAA AECOM, INC.

Lab FileID: F92522.D

Project: Bell Bend Nuclear Power Plant, Salem Township, PA

80 t	Di-n-butylphthalate	1.279	1.241	3.0	99	-0.01	11.15
81 t	Fluoranthene	1.337	1.231	7.9	98	-0.01	11.77
82 t	Octadecane	0.480	0.469	2.3	98	-0.01	10.03
83 I	Chrysene-d12	1.000	1.000	0.0	96	-0.02	13.48
84 t	Pyrene	1.272	1.171	7.9	95	-0.02	12.04
85 S	Terphenyl-d14	0.812	0.765	5.8	98	-0.01	12.35
86 t	Butylbenzylphthalate	0.492	0.492	0.0	99	-0.01	13.02
87	Butyl stearate	0.356	0.345	3.1	100	-0.01	13.12
88 t	Benzo[a]anthracene	1.144	1.071	6.4	98	-0.02	13.46
89 t	3,3'-Dichlorobenzidine	0.392	0.389	0.8	97	-0.01	13.51
		----- True	Calc.	% Drift	-----		
90 t	Chrysene	25.000	25.650	-2.6	94	-0.02	13.51
		----- AvgRF	CCRF	% Dev	-----		
91 t	bis(2-Ethylhexyl)phthalat	0.681	0.697	-2.3	101	-0.02	13.71
92 I	Perylene-d12	1.000	1.000	0.0	98	-0.01	14.85
93 t	Di-n-octylphthalate	1.284	1.432	-11.5	103	-0.01	14.30
94 t	Benzo[b]fluoranthene	1.199	1.304	-8.8	112	-0.02	14.53
		----- True	Calc.	% Drift	-----		
95 t	Benzo[k]fluoranthene	25.000	22.709	9.2	87	-0.02	14.55
		----- AvgRF	CCRF	% Dev	-----		
96 t	Benzo[a]pyrene	1.189	1.229	-3.4	99	-0.02	14.80
97 t	Indeno[1,2,3-cd]pyrene	1.292	1.364	-5.6	103	-0.02	15.80
98 t	Dibenz(a,h)acridine	0.921	0.996	-8.1	105	-0.02	15.60
99 t	Dibenz[a,h]anthracene	1.049	1.114	-6.2	104	-0.03	15.83
100 t	7,12-Dimethylbenz(a)anthr	0.487	0.493	-1.2	97	-0.02	14.55
101 t	Benzo[g,h,i]perylene	1.141	1.163	-1.9	101	-0.03	16.06

(#) = Out of Range
F92494.D MF4329.M

SPCC's out = 0 CCC's out = 0
Fri Oct 22 07:25:23 2010 GCMS3A

7.7.28

7

Continuing Calibration Summary

Job Number: JA58900
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Sample: EF4333-CC4330
Lab FileID: F92523.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF4333\F92523.D Vial: 3
Acq On : 21 Oct 2010 3:50 pm Operator: ninap
Sample : cc4330-25 Inst : MSF
Misc : op46122,ef4333 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 i	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	110	0.00	3.33
103 t	Benzaldehyde	0.935	0.861	7.9	97	0.01	2.86
104	Acenaphthene-d10a	1.000	1.000	0.0	112	-0.01	7.66
105	1,2,4,5-Tetrachlorobenzen	0.556	0.608	-9.4	114	0.01	6.37
106 i	Phenanthrene-d10a	1.000	1.000	0.0	109	-0.02	9.93
107	Atrazine	0.188	0.214	-13.8	116	-0.02	9.73
108 i	Chrysene-d12a	1.000	1.000	0.0	113	-0.02	13.48
109 t	Benzidine	0.468	0.567	-21.2#	121	-0.03	12.03

(#) = Out of Range
F92494.D MF4329.M

SPCC's out = 0 CCC's out = 0
Fri Oct 22 07:25:49 2010 GCMS3A

7.7.29

7



GC/MS Semi-volatiles

Raw Data

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P728.D
 Acq On : 2 Nov 2010 4:32 pm
 Operator : kristis
 Sample : ja58900-1
 Misc : op46332,e3p34,35.1,,,1,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 03 12:47:58 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	84159	40.00	ppb	-0.04
24) Naphthalene-d8	9.361	136	314566	40.00	ppb	-0.03
47) Acenaphthene-d10	12.838	164	174899	40.00	ppb	-0.04
69) Phenanthrene-d10	15.758	188	248674	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	259666	40.00	ppb	-0.02
92) Perylene-d12	21.776	264	177538	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.987	152	84159	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	174899	40.00	ppb	-0.04
106) Chrysene-d12a	19.936	240	259666	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	174899	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	49013	19.64	ppb	-0.10
Spiked Amount 50.000			Recovery =	39.28%		
8) Phenol-d5	6.564	99	60334	16.53	ppb	-0.05
Spiked Amount 50.000			Recovery =	33.06%		
25) Nitrobenzene-d5	8.078	82	67555	19.82	ppb	-0.05
Spiked Amount 50.000			Recovery =	39.64%		
51) 2-Fluorobiphenyl	11.554	172	143201	22.70	ppb	-0.04
Spiked Amount 50.000			Recovery =	45.40%		
73) 2,4,6-Tribromophenol	14.464	330	19571	21.11	ppb	-0.05
Spiked Amount 50.000			Recovery =	42.22%		
85) Terphenyl-d14	18.508	244	129496	24.56	ppb	-0.03
Spiked Amount 50.000			Recovery =	49.12%		
Target Compounds						
55) Dimethylphthalate	12.501	163	16118	2.87	ppb	Qvalue 97

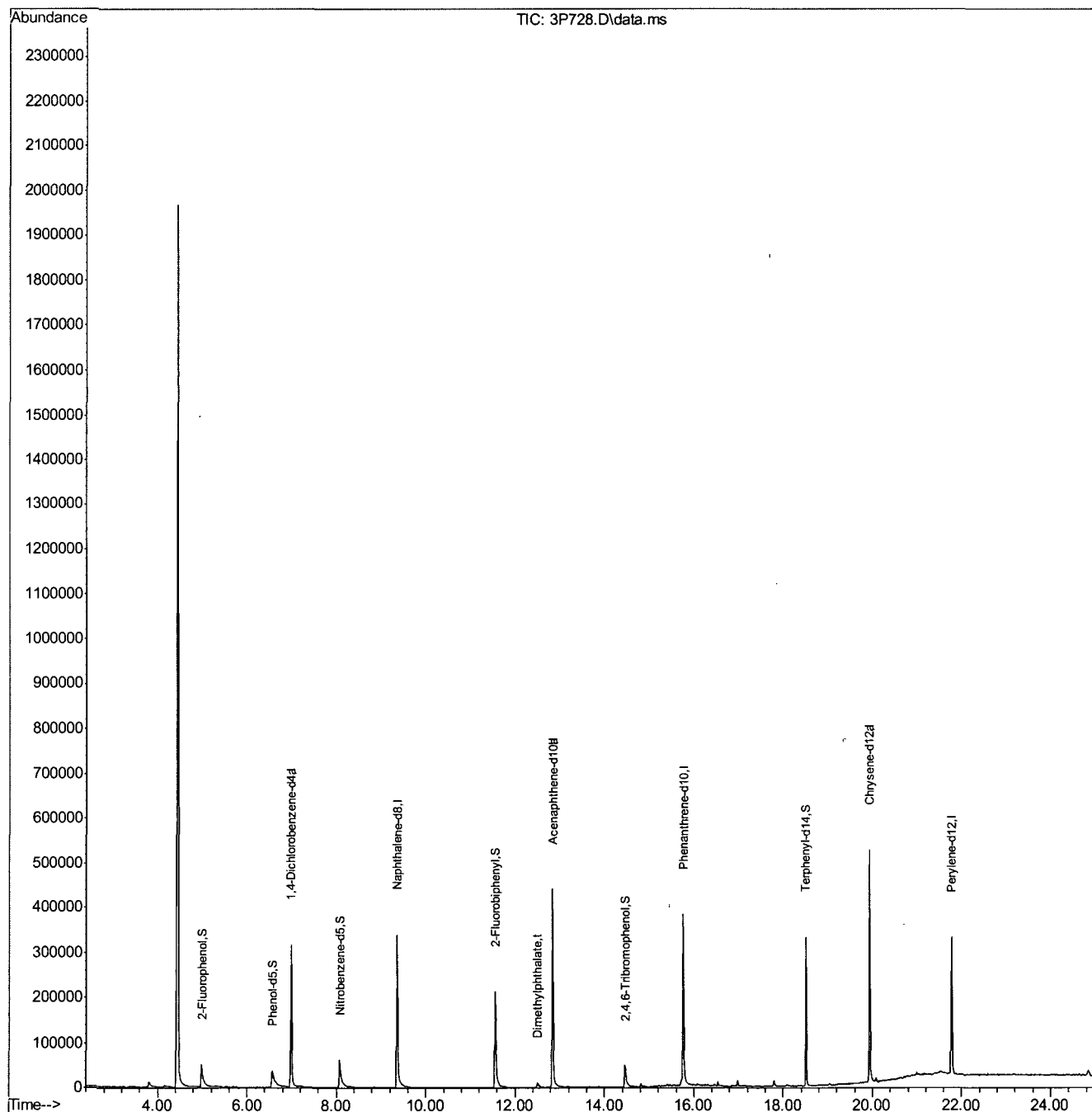
(#) = qualifier out of range (m) = manual integration (+) = signals summed

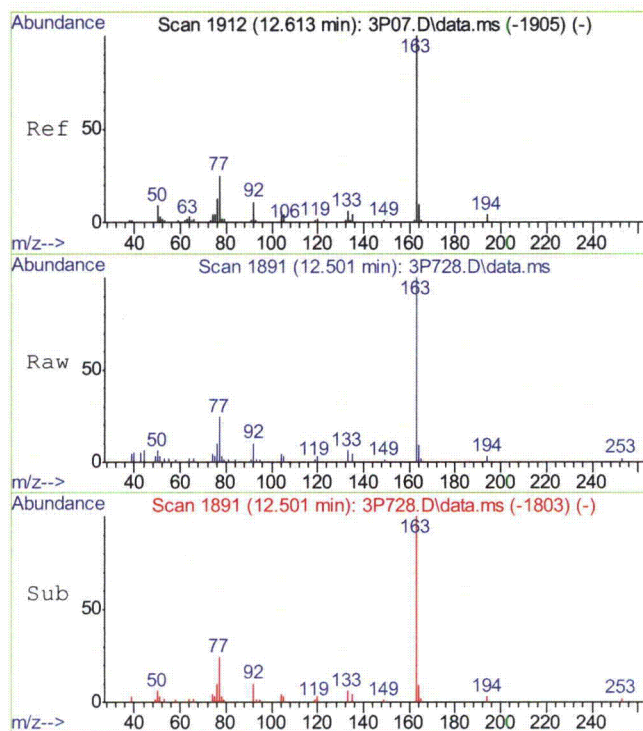
8.1.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P728.D
Acq On : 2 Nov 2010 4:32 pm
Operator : kristis
Sample : ja58900-1
Misc : op46332,e3p34,35.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

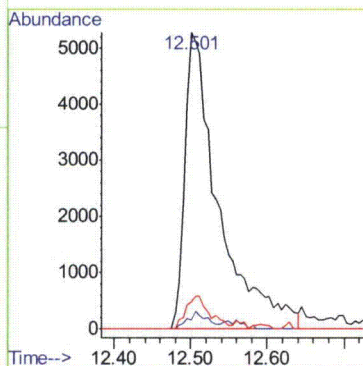
Quant Time: Nov 03 12:47:58 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





#55
Dimethylphthalate
Concen: 2.87 ppb
RT: 12.501 min Scan# 1891
Delta R.T. -0.032 min
Lab File: 3P728.D
Acq: 2 Nov 2010 4:32 pm

Tgt Ion:163 Resp: 16118
Ion Ratio Lower Upper
163 100
194 3.3 0.0 34.3
164 9.2 0.0 40.1

8.1.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P734.D
 Acq On : 2 Nov 2010 7:30 pm
 Operator : kristis
 Sample : ja58900-2
 Misc : op46332,e3p34,35.0,,,1,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 03 12:54:41 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	89677	40.00	ppb	-0.04
24) Naphthalene-d8	9.356	136	315900	40.00	ppb	-0.04
47) Acenaphthene-d10	12.838	164	174828	40.00	ppb	-0.04
69) Phenanthrene-d10	15.759	188	249583	40.00	ppb	-0.03
83) Chrysene-d12	19.930	240	233973	40.00	ppb	-0.02
92) Perylene-d12	21.770	264	154231	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	6.987	152	89677	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	174828	40.00	ppb	-0.04
106) Chrysene-d12a	19.930	240	233973	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	174828	40.00	ppb	-0.04

System Monitoring Compounds

5) 2-Fluorophenol	4.986	112	55806	20.98	ppb	-0.10
Spiked Amount	50.000		Recovery	=	41.96%	
8) Phenol-d5	6.564	99	70327	18.08	ppb	-0.05
Spiked Amount	50.000		Recovery	=	36.16%	
25) Nitrobenzene-d5	8.078	82	80099	23.40	ppb	-0.05
Spiked Amount	50.000		Recovery	=	46.80%	
51) 2-Fluorobiphenyl	11.555	172	169364	26.86	ppb	-0.04
Spiked Amount	50.000		Recovery	=	53.72%	
73) 2,4,6-Tribromophenol	14.454	330	27790	29.87	ppb	-0.06
Spiked Amount	50.000		Recovery	=	59.74%	
85) Terphenyl-d14	18.508	244	160998	33.88	ppb	-0.03
Spiked Amount	50.000		Recovery	=	67.76%	

Target Compounds

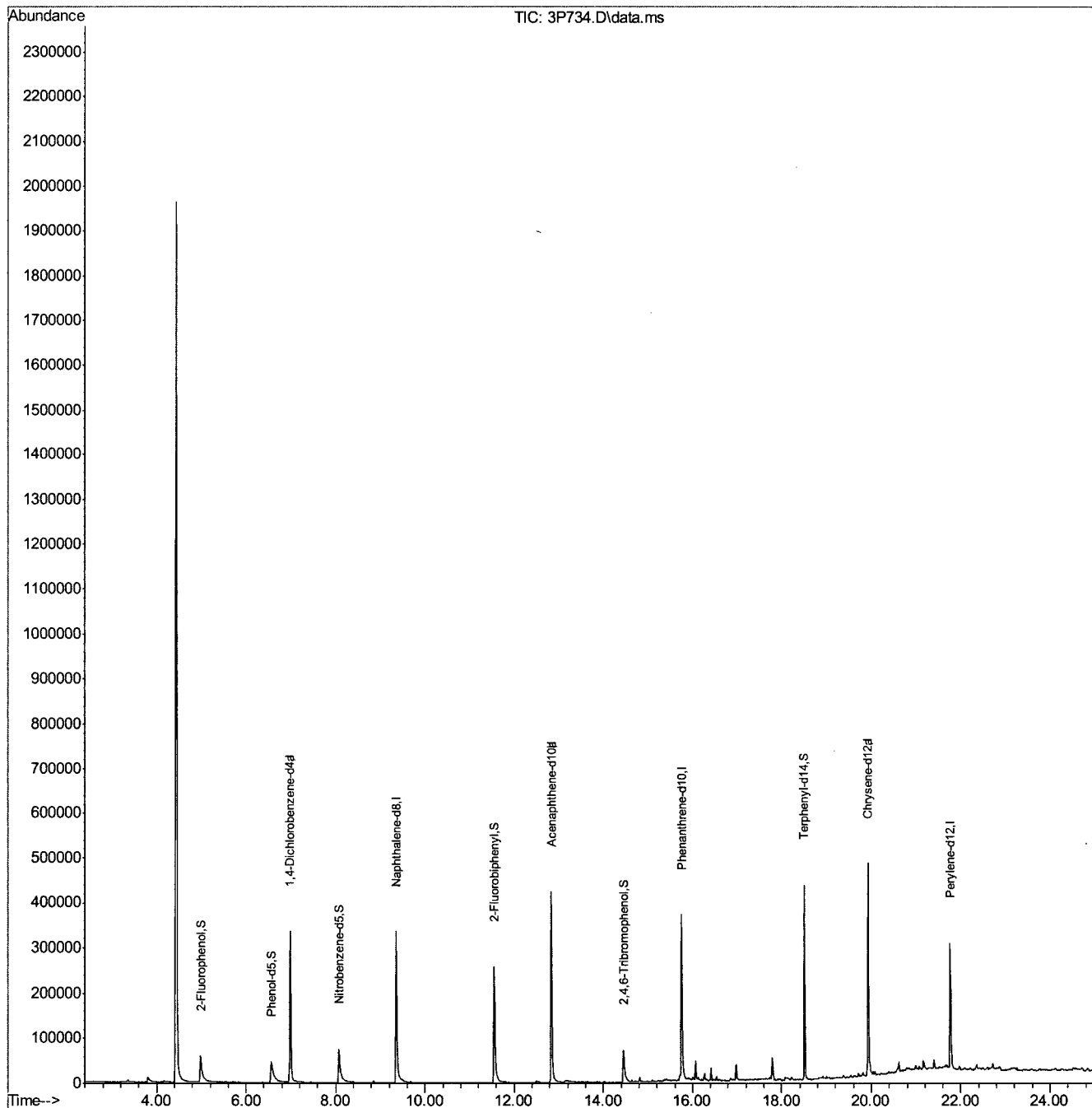
Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P734.D
Acq On : 2 Nov 2010 7:30 pm
Operator : kristis
Sample : ja58900-2
Misc : op46332,e3p34,35.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 03 12:54:41 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P705.D
 Acq On : 1 Nov 2010 4:47 pm
 Operator : kristis
 Sample : ja58900-3
 Misc : op46332,e3p33,35.0,,,1,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 02 11:22:31 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.992	152	109369	40.00	ppb	-0.04
24) Naphthalene-d8	9.367	136	398160	40.00	ppb	-0.03
47) Acenaphthene-d10	12.843	164	226269	40.00	ppb	-0.03
69) Phenanthrene-d10	15.764	188	319569	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	317183	40.00	ppb	-0.02
92) Perylene-d12	21.781	264	191084	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.992	152	109369	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.843	164	226269	40.00	ppb	-0.03
106) Chrysene-d12a	19.936	240	317183	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.843	164	226269	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	79198	24.42	ppb	-0.10
Spiked Amount	50.000		Recovery	=	48.84%	
8) Phenol-d5	6.570	99	92433	19.49	ppb	-0.05
Spiked Amount	50.000		Recovery	=	38.98%	
25) Nitrobenzene-d5	8.078	82	103613	24.02	ppb	-0.05
Spiked Amount	50.000		Recovery	=	48.04%	
51) 2-Fluorobiphenyl	11.560	172	222769	27.30	ppb	-0.03
Spiked Amount	50.000		Recovery	=	54.60%	
73) 2,4,6-Tribromophenol	14.459	330	40036	33.61	ppb	-0.05
Spiked Amount	50.000		Recovery	=	67.22%	
85) Terphenyl-d14	18.513	244	224554	34.86	ppb	-0.03
Spiked Amount	50.000		Recovery	=	69.72%	
Target Compounds						
55) Dimethylphthalate	12.501	163	54445	7.49	ppb	Qvalue 99

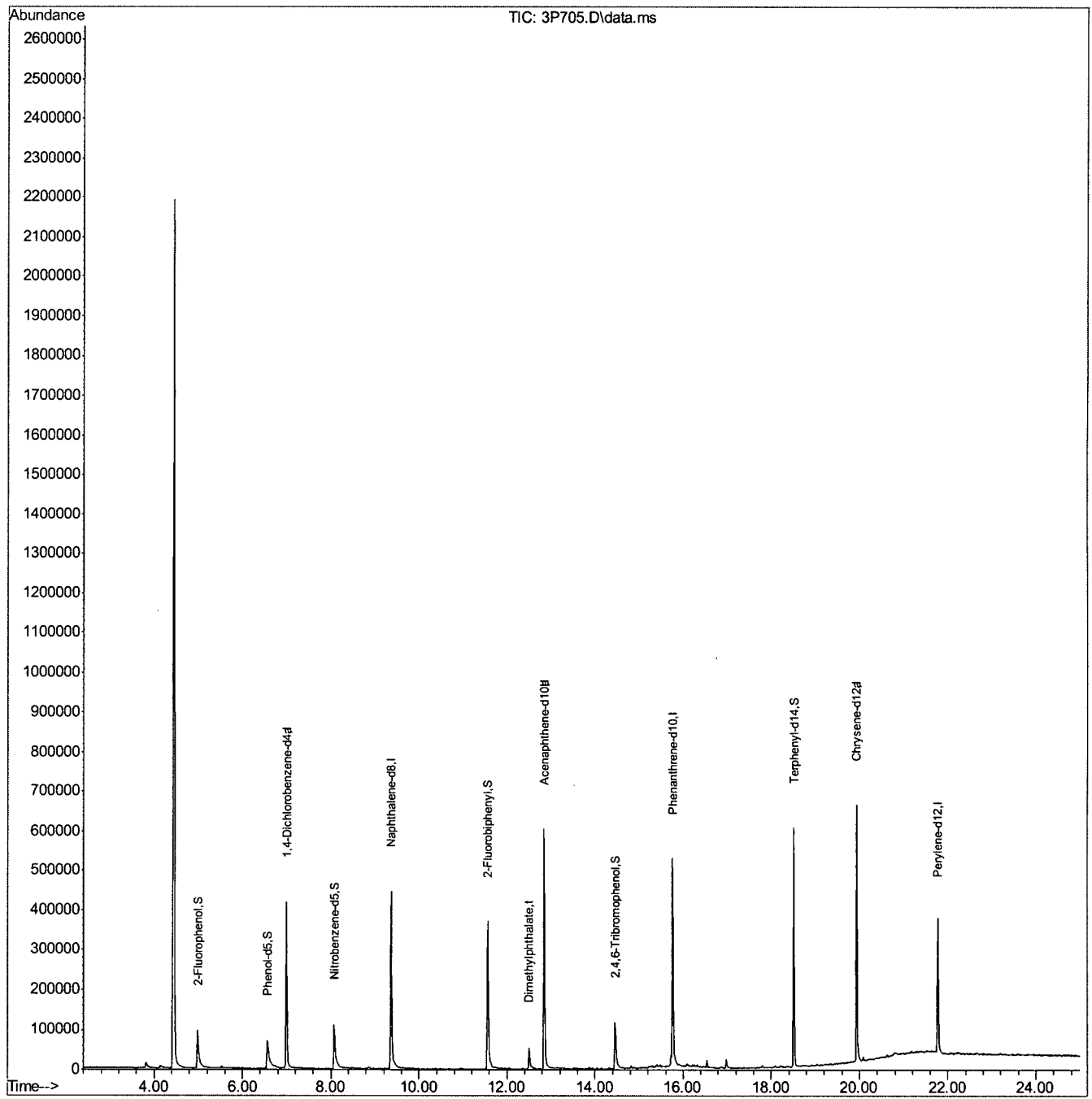
(#) = qualifier out of range (m) = manual integration (+) = signals summed

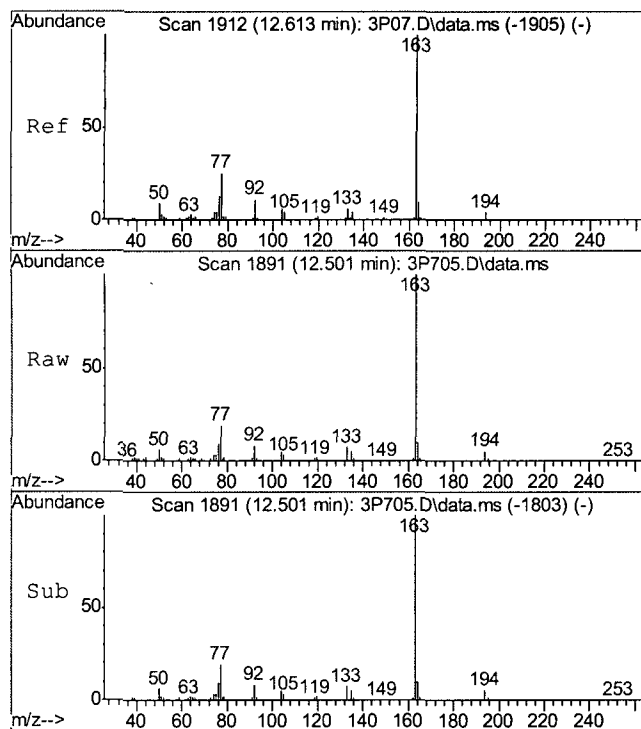
8.13
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P705.D
Acq On : 1 Nov 2010 4:47 pm
Operator : kristis
Sample : ja58900-3
Misc : op46332,e3p33,35.0,,,1,1
ALS Vial : 14 Sample Multiplier: 1

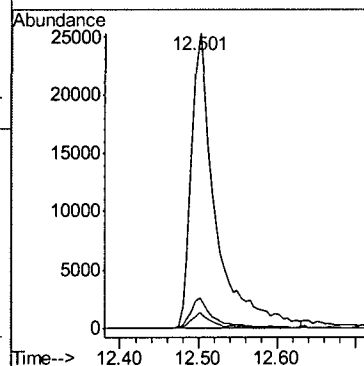
Quant Time: Nov 02 11:22:31 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





#55
Dimethylphthalate
Concen: 7.49 ppb
RT: 12.501 min Scan# 1891
Delta R.T. -0.032 min
Lab File: 3P705.D
Acq: 1 Nov 2010 4:47 pm

Tgt Ion:163 Resp: 54445
Ion Ratio Lower Upper
163 100
194 5.1 0.0 34.3
164 10.4 0.0 40.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P735.D
 Acq On : 2 Nov 2010 7:59 pm
 Operator : kristis
 Sample : ja58900-4
 Misc : op46332,e3p34,35.1,,,1,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 03 12:55:57 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

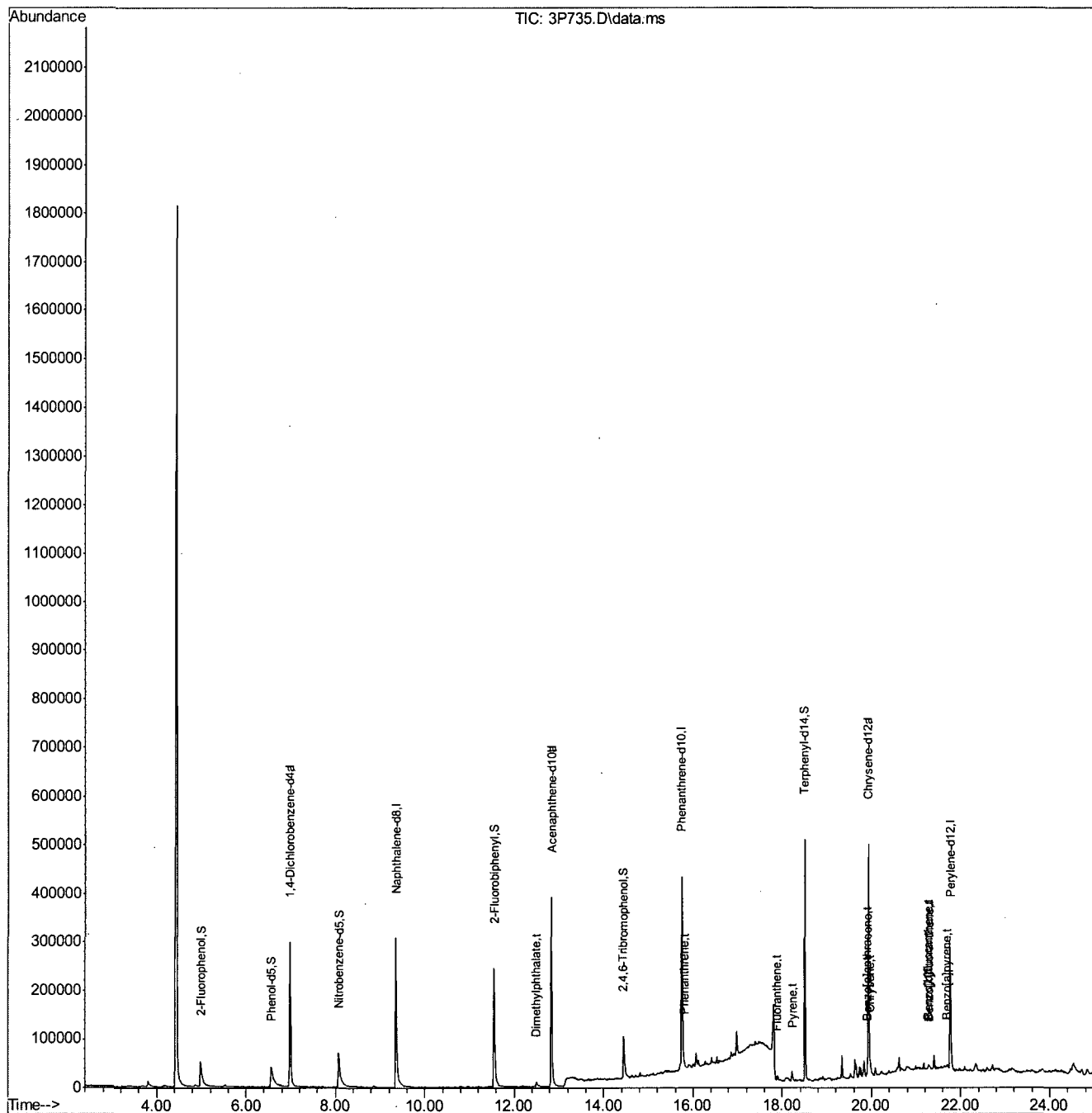
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	82123	40.00	ppb	-0.04
24) Naphthalene-d8	9.356	136	285993	40.00	ppb	-0.04
47) Acenaphthene-d10	12.838	164	157443	40.00	ppb	-0.04
69) Phenanthrene-d10	15.753	188	250887	40.00	ppb	-0.04
83) Chrysene-d12	19.930	240	222419	40.00	ppb	-0.02
92) Perylene-d12	21.770	264	146380	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	6.987	152	82123	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	157443	40.00	ppb	-0.04
106) Chrysene-d12a	19.930	240	222419	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	157443	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	50124	20.58	ppb	-0.10
Spiked Amount 50.000			Recovery =	41.16%		
8) Phenol-d5	6.564	99	67977	19.09	ppb	-0.05
Spiked Amount 50.000			Recovery =	38.18%		
25) Nitrobenzene-d5	8.078	82	75961	24.51	ppb	-0.05
Spiked Amount 50.000			Recovery =	49.02%		
51) 2-Fluorobiphenyl	11.554	172	153928	27.11	ppb	-0.04
Spiked Amount 50.000			Recovery =	54.22%		
73) 2,4,6-Tribromophenol	14.448	330	29657	31.71	ppb	-0.06
Spiked Amount 50.000			Recovery =	63.42%		
85) Terphenyl-d14	18.508	244	180055	39.86	ppb	-0.03
Spiked Amount 50.000			Recovery =	79.72%		
Target Compounds						
						Qvalue
55) Dimethylphthalate	12.496	163	12063	2.38	ppb	94
77) Phenanthrene	15.801	178	4497	0.63	ppb	97
81) Fluoranthene	17.887	202	8718	1.10	ppb	98
84) Pyrene	18.224	202	9033	1.15	ppb	96
88) Benzo[a]anthracene	19.909	228	4404	0.70	ppb	91
90) Chrysene	19.962	228	4326	0.81	ppb	93
94) Benzo[b]fluoranthene	21.283	252	3068	0.52	ppb	97
95) Benzo[k]fluoranthene	21.305	252	3382m	0.68	ppb	
96) Benzo[a]pyrene	21.701	252	2496	0.53	ppb	83

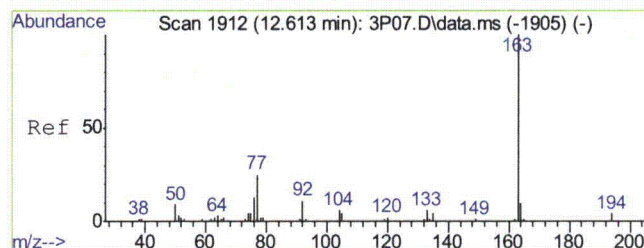
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P735.D
Acq On : 2 Nov 2010 7:59 pm
Operator : kristis
Sample : ja58900-4
Misc : op46332,e3p34,35.1,,,1,1
ALS Vial : 21 Sample Multiplier: 1

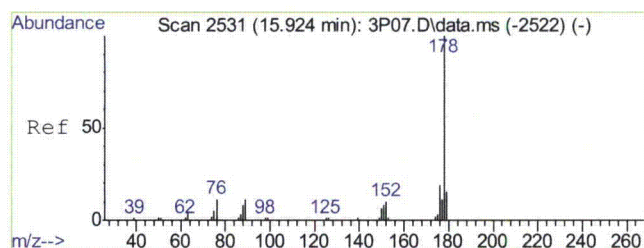
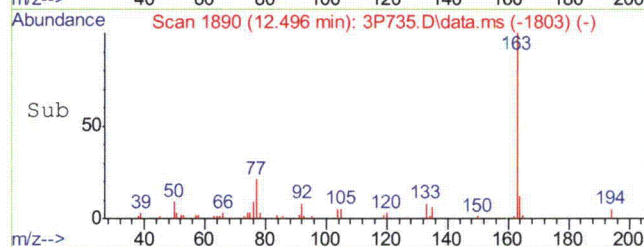
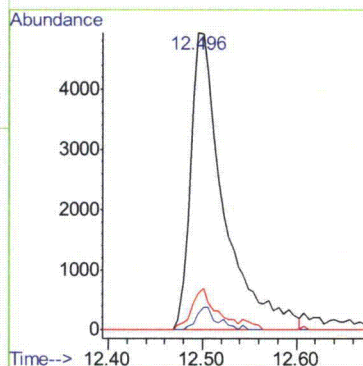
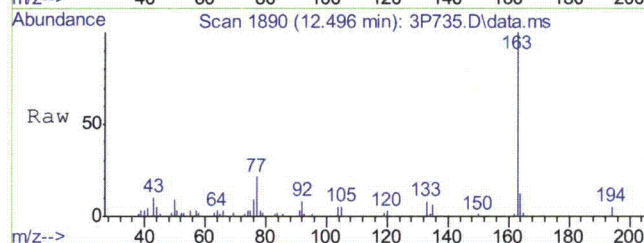
Quant Time: Nov 03 12:55:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





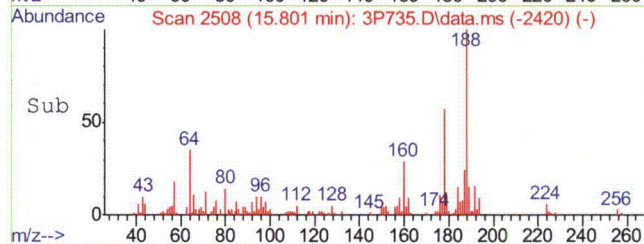
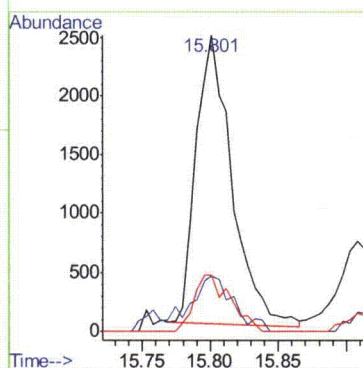
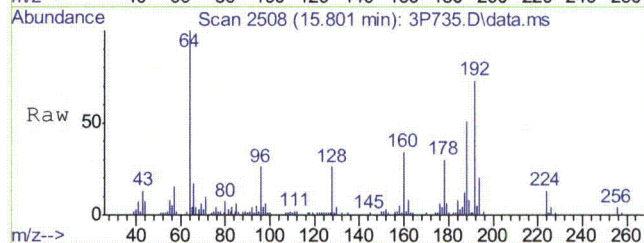
#55
Dimethylphthalate
Concen: 2.38 ppb
RT: 12.496 min Scan# 1890
Delta R.T. -0.037 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

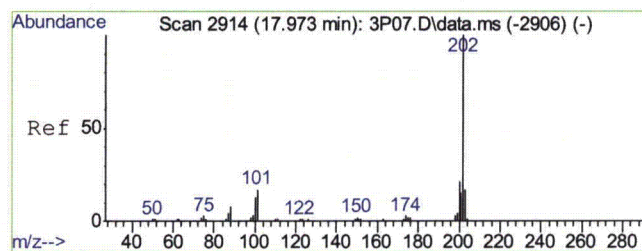
Tgt Ion:163 Resp: 12063
Ion Ratio Lower Upper
163 100
194 5.6 0.0 34.3
164 12.5 0.0 40.1



#77
Phenanthrene
Concen: 0.63 ppb
RT: 15.801 min Scan# 2508
Delta R.T. -0.032 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

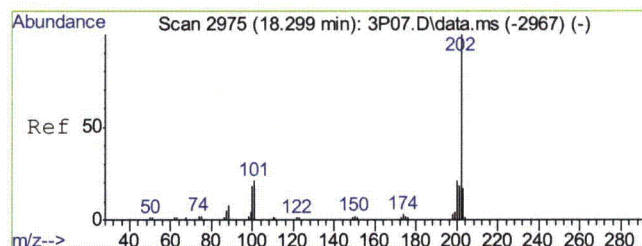
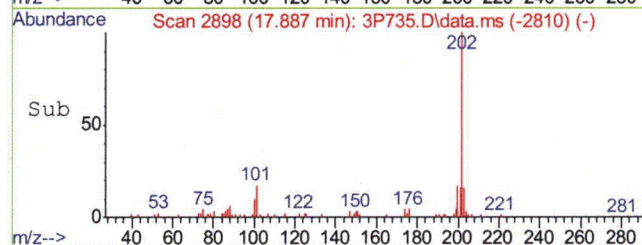
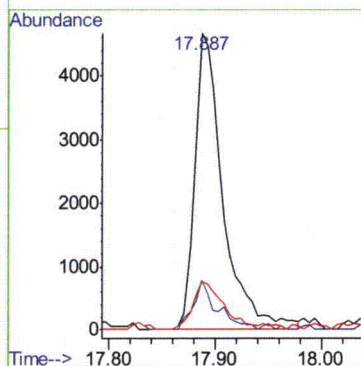
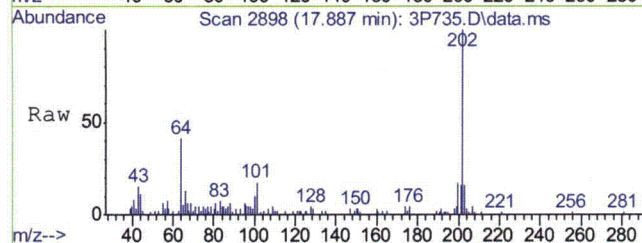
Tgt Ion:178 Resp: 4497
Ion Ratio Lower Upper
178 100
179 17.4 0.0 44.8
176 19.4 0.0 49.8





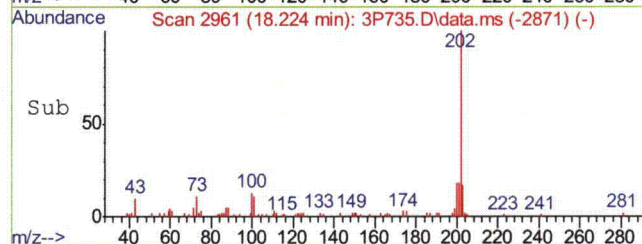
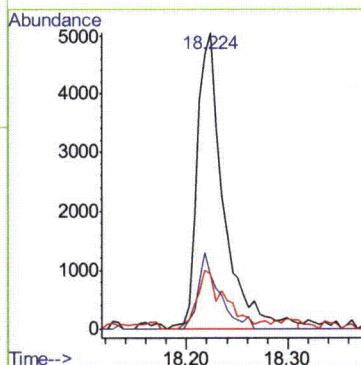
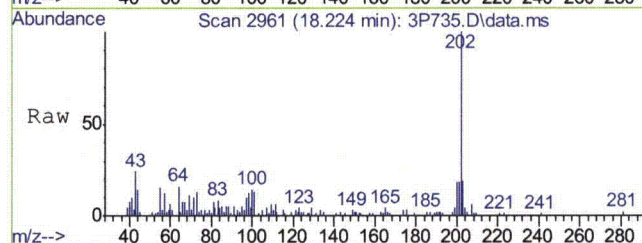
#81
Fluoranthene
Concen: 1.10 ppb
RT: 17.887 min Scan# 2898
Delta R.T. -0.027 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

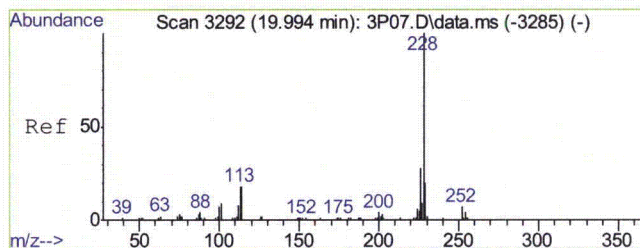
Tgt Ion:202 Resp: 8718
Ion Ratio Lower Upper
202 100
101 16.7 0.0 45.9
203 16.2 0.0 46.8



#84
Pyrene
Concen: 1.15 ppb
RT: 18.224 min Scan# 2961
Delta R.T. -0.021 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

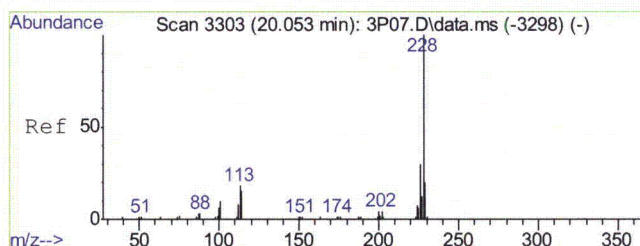
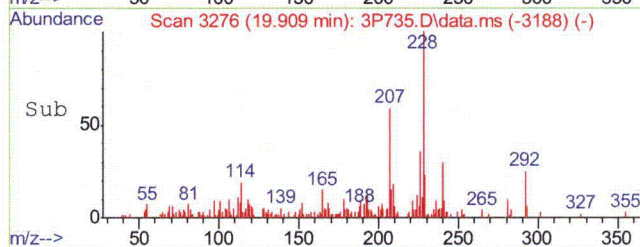
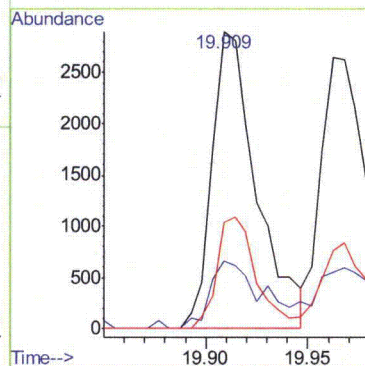
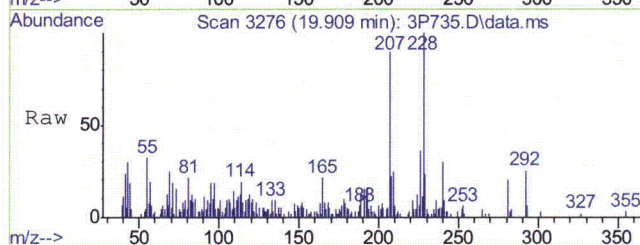
Tgt Ion:202 Resp: 9033
Ion Ratio Lower Upper
202 100
200 18.3 0.0 50.7
203 17.2 0.0 46.3





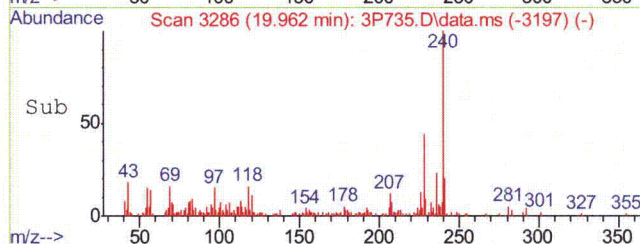
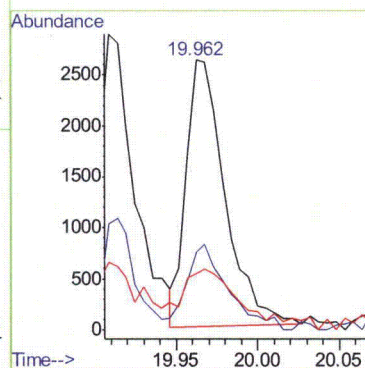
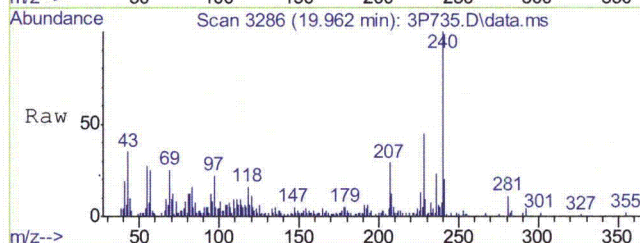
#88
Benzo[a]anthracene
Concen: 0.70 ppb
RT: 19.909 min Scan# 3276
Delta R.T. -0.027 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

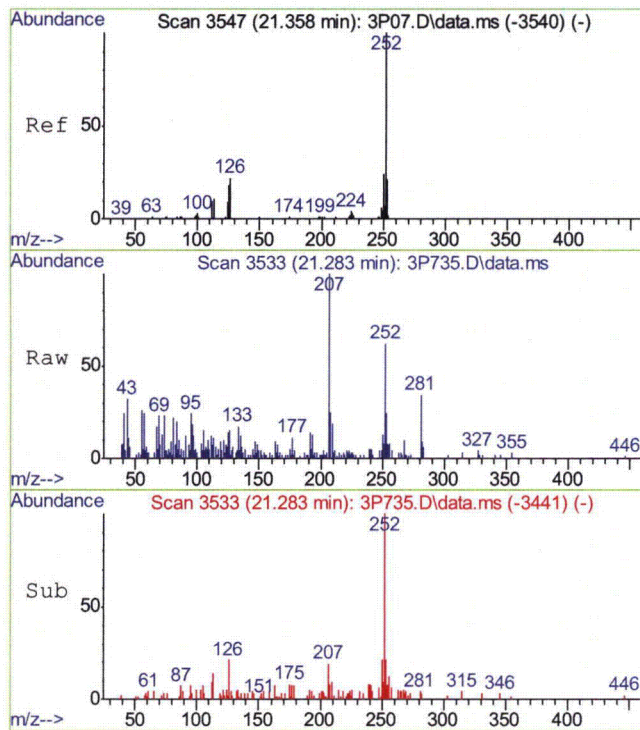
Tgt Ion:228 Resp: 4404
Ion Ratio Lower Upper
228 100
229 19.6 0.0 50.1
226 36.2 0.0 58.3



#90
Chrysene
Concen: 0.81 ppb
RT: 19.962 min Scan# 3286
Delta R.T. -0.027 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

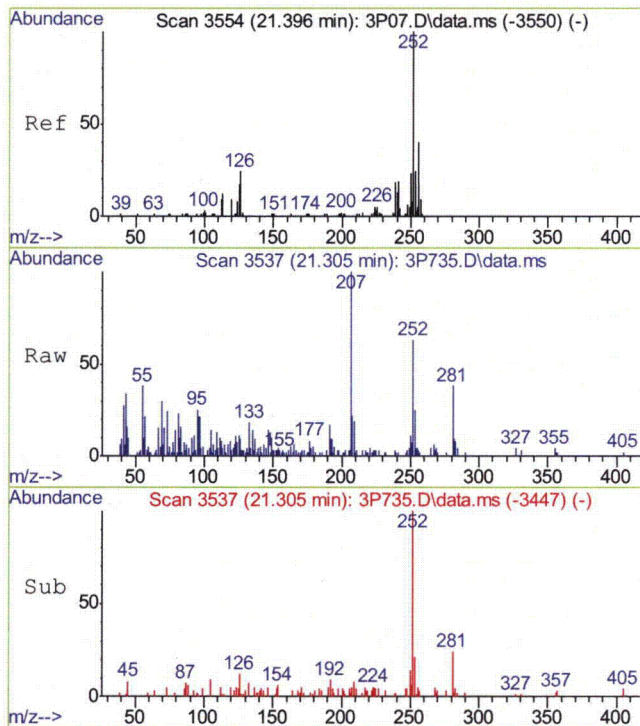
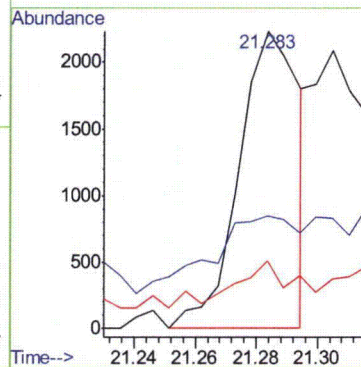
Tgt Ion:228 Resp: 4326
Ion Ratio Lower Upper
228 100
226 27.5 0.4 60.4
229 15.5 0.0 49.8





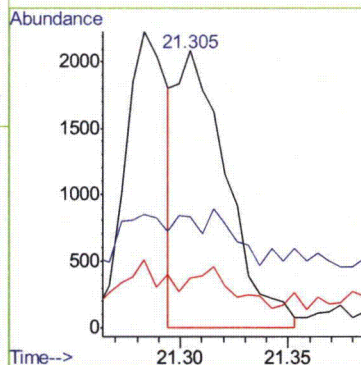
#94
Benzo[b]fluoranthene
Concen: 0.52 ppb
RT: 21.283 min Scan# 3533
Delta R.T. -0.011 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

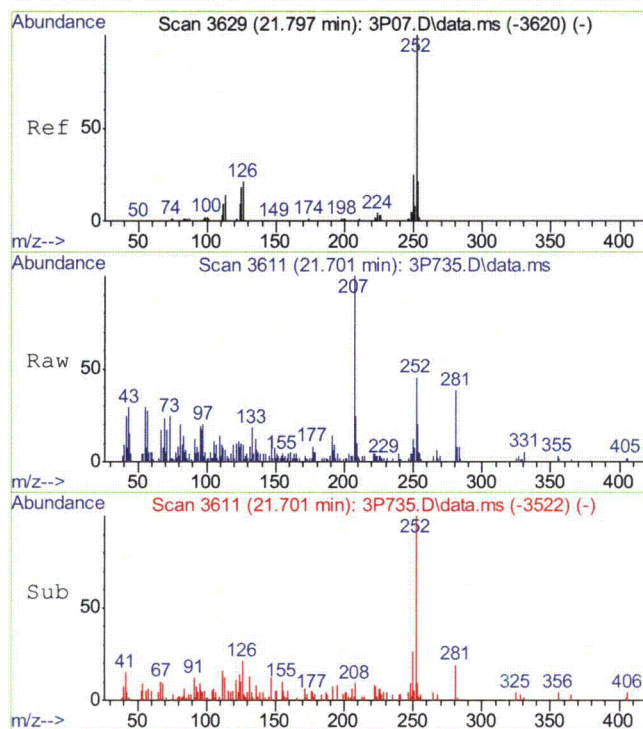
Tgt Ion:252 Resp: 3068
Ion Ratio Lower Upper
252 100
253 22.0 0.0 50.5
125 17.2 0.0 45.7



#95
Benzo[k]fluoranthene
Concen: 0.68 ppb m
RT: 21.305 min Scan# 3537
Delta R.T. -0.021 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

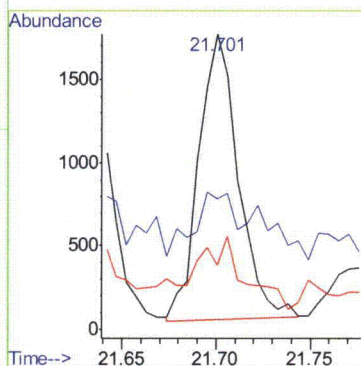
Tgt Ion:252 Resp: 3382
Ion Ratio Lower Upper
252 100
253 39.5 0.0 50.4
125 18.0 0.0 44.4

8.14
8



#96
Benzo[a]pyrene
Concen: 0.53 ppb
RT: 21.701 min Scan# 3611
Delta R.T. -0.021 min
Lab File: 3P735.D
Acq: 2 Nov 2010 7:59 pm

Tgt Ion:252 Resp: 2496
Ion Ratio Lower Upper
252 100
253 16.0 0.0 52.0
125 9.0 0.0 49.0



Manual Integration Approval Summary

Page 1 of 1

Sample Number: JA58900-4 **Method:** SW846 8270C
Lab FileID: 3P735.D **Analyst approved:** 11/04/10 11:17 Kristi Schollenberger
Injection Time: 11/02/10 19:59 **Supervisor approved:** 11/04/10 11:32 Kristi Schollenberger

Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		21.30	Overlapping peak

8.1.4.1

8

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333D\F92534.D Vial: 14
 Acq On : 21 Oct 2010 7:11 pm Operator: ninap
 Sample : ja58900-5 Inst : MSF
 Misc : op46278,ef4333,950 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 19:28:21 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	200701	40.00	ppb	0.00
24) Naphthalene-d8	4.99	136	680862	40.00	ppb	-0.01
47) Acenaphthene-d10	7.66	164	462134	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	764963	40.00	ppb	-0.02
83) Chrysene-d12	13.48	240	886169	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	743142	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	3.33	152	200701	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	462134	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	764963	40.00	ppb	-0.02
108) Chrysene-d12a	13.48	240	886169	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	2.11	112	134180	20.50	ppb	0.00
Spiked Amount 50.000			Recovery	=	41.00%	
8) Phenol-d5	3.02	99	87143	10.97	ppb	0.00
Spiked Amount 50.000			Recovery	=	21.94%	
25) Nitrobenzene-d5	4.05	82	278402	41.39	ppb	0.00
Spiked Amount 50.000			Recovery	=	82.78%	
51) 2-Fluorobiphenyl	6.69	172	628553	38.06	ppb	-0.01
Spiked Amount 50.000			Recovery	=	76.12%	
73) 2,4,6-Tribromophenol	8.90	330	83351	45.23	ppb	-0.02
Spiked Amount 50.000			Recovery	=	90.46%	
85) Terphenyl-d14	12.35	244	839123	46.63	ppb	-0.01
Spiked Amount 50.000			Recovery	=	93.26%	
Target Compounds						
91) bis(2-Ethylhexyl)phthalate	13.71	149	22574	1.50	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92534.D MF4329.M Thu Nov 04 10:37:37 2010 GCMS3A

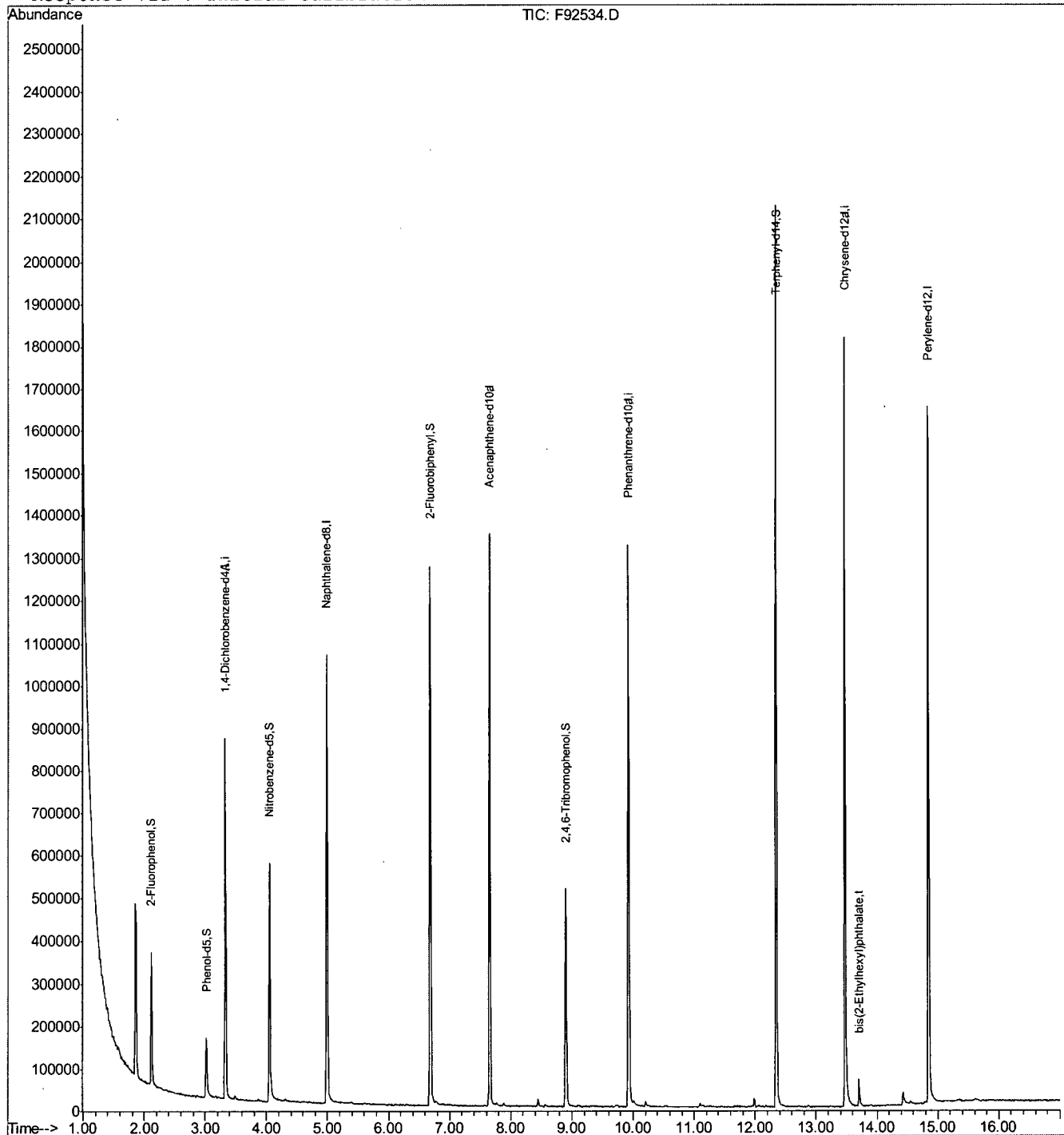
Quantitation Report (QT Reviewed)

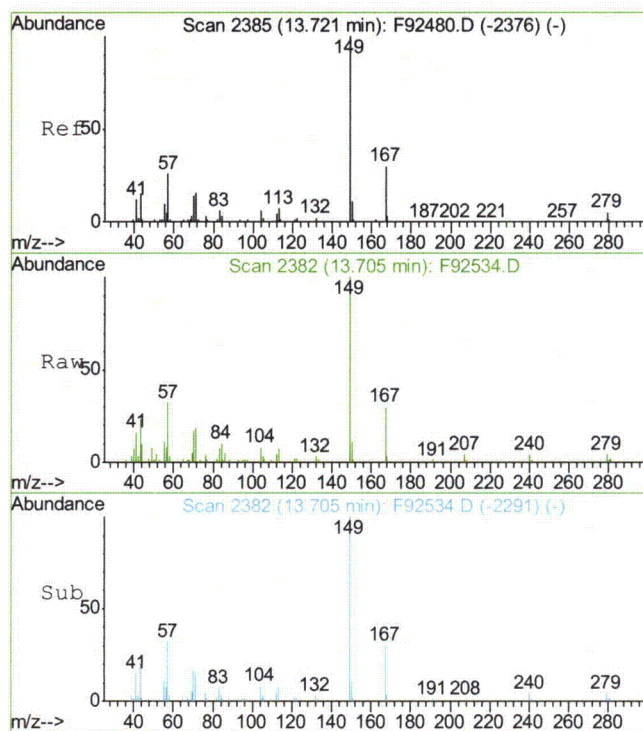
Data File : C:\MSDCHEM\1\DATA\EF4333D\F92534.D
Acq On : 21 Oct 2010 7:11 pm
Sample : ja58900-5
Misc : op46278,ef4333,950
MS Integration Params: RTEINT.P
Quant Time: Oct 22 7:32 2010

Vial: 14
Operator: ninap
Inst : MSF
Multiplr: 1.00

Quant Results File: MF4329.RES

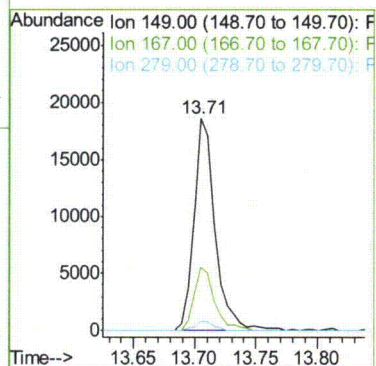
Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration





#91
bis(2-Ethylhexyl)phthalate
Concen: 1.50 ppb
RT: 13.71 min Scan# 2382
Delta R.T. -0.02 min
Lab File: F92534.D
Acq: 21 Oct 2010 7:11 pm

Tgt Ion:	149	Resp:	22574
Ion Ratio	Lower	Upper	
149	100		
167	29.9	0.0	60.0
279	4.3	0.0	35.2

8.1.5
8

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92535.D
 Acq On : 21 Oct 2010 7:35 pm
 Sample : ja58900-6
 Misc : op46278,ef4333,835
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 19:52:50 2010

Vial: 15
 Operator: ninap
 Inst : MSF
 Multiplr: 1.00

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.32	152	198272	40.00	ppb	0.00
24) Naphthalene-d8	4.99	136	642507	40.00	ppb	-0.01
47) Acenaphthene-d10	7.66	164	432746	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	725938	40.00	ppb	-0.02
83) Chrysene-d12	13.48	240	840676	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	691077	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.32	152	198272	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	432746	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	725938	40.00	ppb	-0.02
108) Chrysene-d12a	13.48	240	840676	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	168065	26.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	52.00%	
8) Phenol-d5	3.02	99	119257	15.20	ppb	0.00
Spiked Amount	50.000		Recovery	=	30.40%	
25) Nitrobenzene-d5	4.05	82	324237	51.09	ppb	0.00
Spiked Amount	50.000		Recovery	=	102.18%	
51) 2-Fluorobiphenyl	6.69	172	710598	45.95	ppb	-0.01
Spiked Amount	50.000		Recovery	=	91.90%	
73) 2,4,6-Tribromophenol	8.90	330	93204	53.29	ppb	-0.02
Spiked Amount	50.000		Recovery	=	106.58%	
85) Terphenyl-d14	12.35	244	851695	49.89	ppb	-0.01
Spiked Amount	50.000		Recovery	=	99.78%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92535.D MF4329.M Fri Oct 22 07:33:37 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92535.D

Vial: 15

Acq On : 21 Oct 2010 7:35 pm

Operator: ninap

Sample : ja58900-6

Inst : MSF

Misc : op46278,ef4333,835

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 7:33 2010

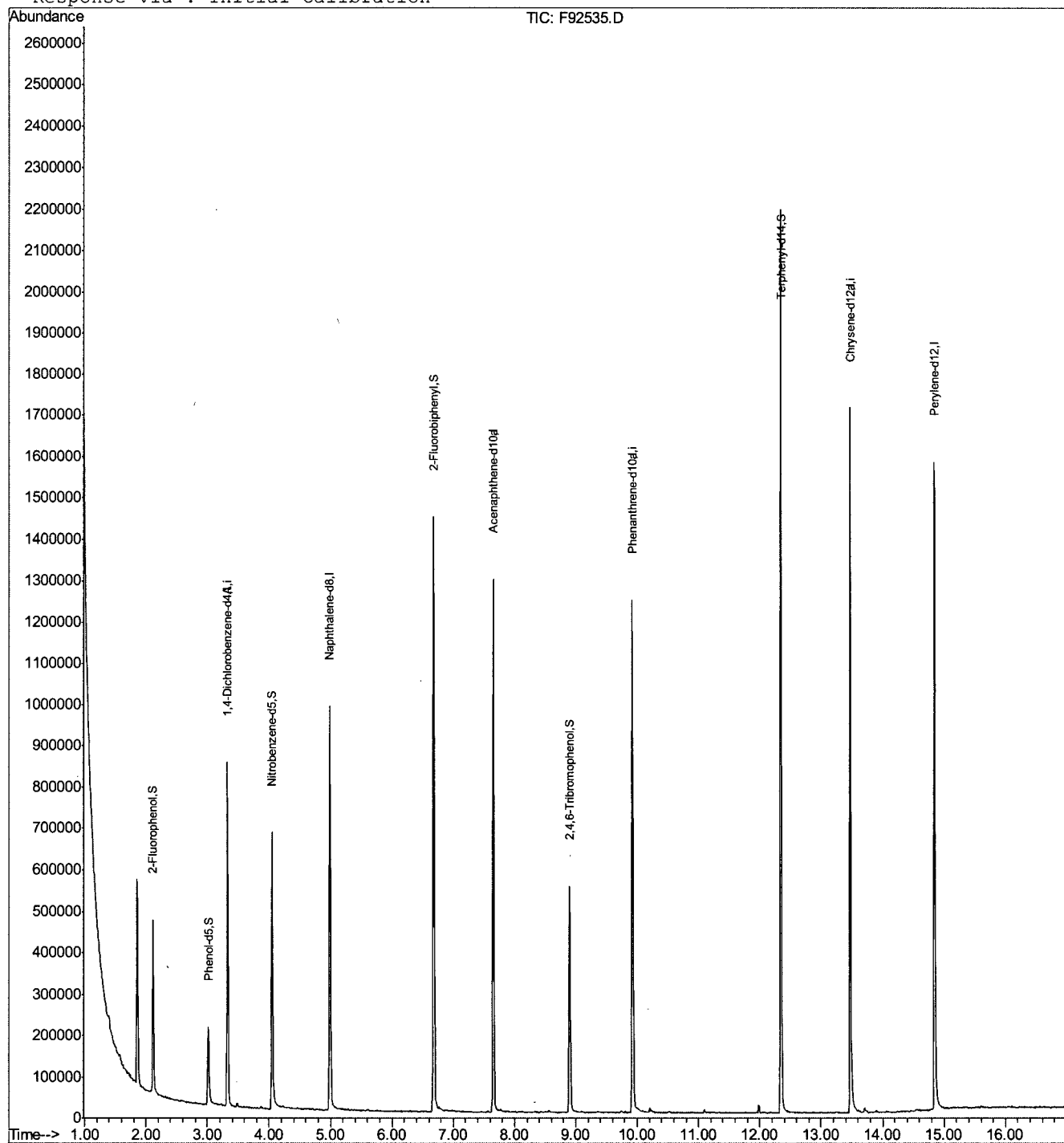
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P729.D
 Acq On : 2 Nov 2010 5:02 pm
 Operator : kristis
 Sample : ja58900-7
 Misc : op46332,e3p34,35.3,,,1,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 03 12:48:37 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

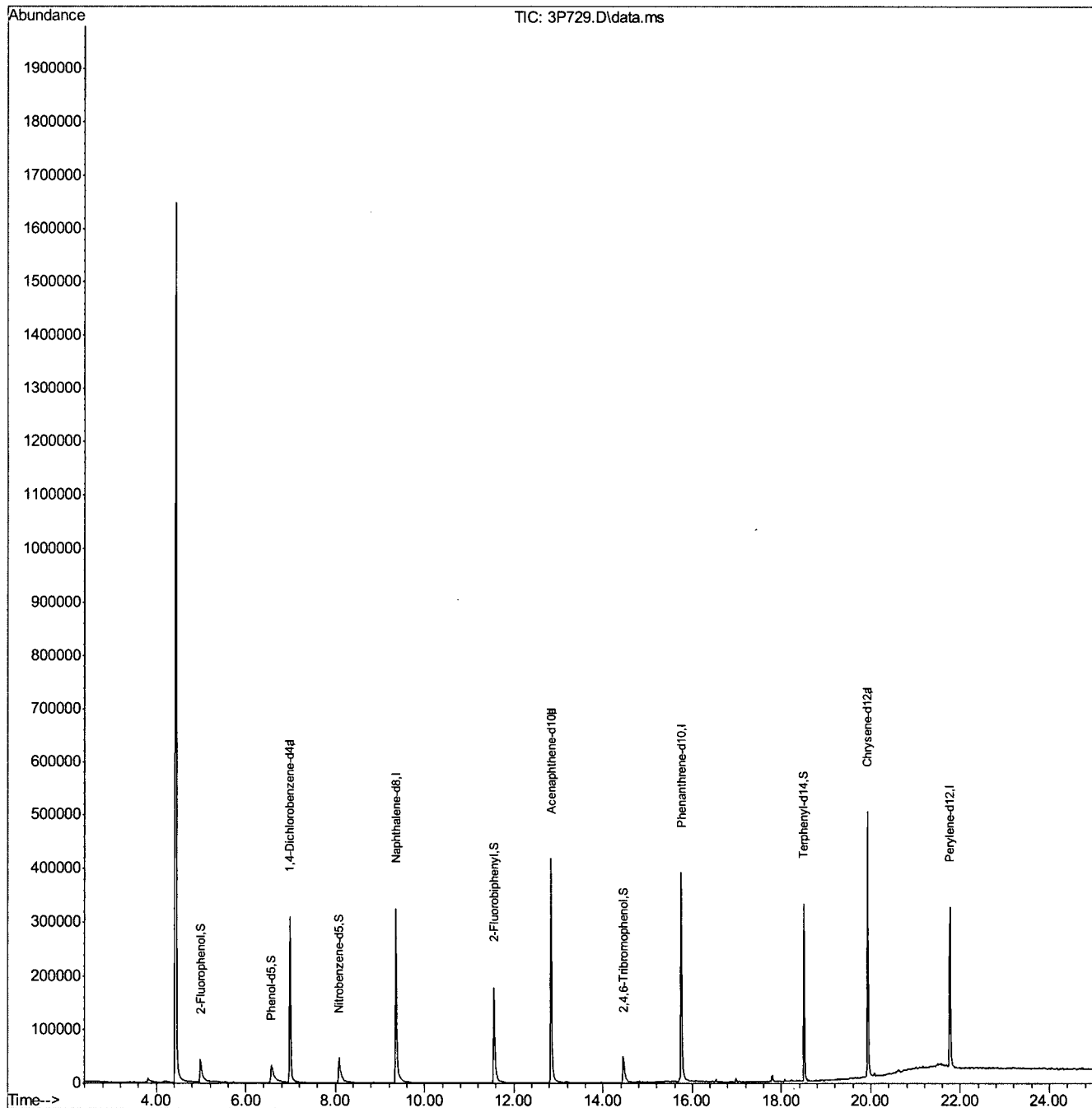
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	85171	40.00	ppb	-0.04
24) Naphthalene-d8	9.361	136	310311	40.00	ppb	-0.03
47) Acenaphthene-d10	12.838	164	170775	40.00	ppb	-0.04
69) Phenanthrene-d10	15.758	188	251998	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	255546	40.00	ppb	-0.02
92) Perylene-d12	21.776	264	175512	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.987	152	85171	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	170775	40.00	ppb	-0.04
106) Chrysene-d12a	19.936	240	255546	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	170775	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	45986	18.21	ppb	-0.10
Spiked Amount 50.000			Recovery	=	36.42%	
8) Phenol-d5	6.575	99	56454	15.28	ppb	-0.04
Spiked Amount 50.000			Recovery	=	30.56%	
25) Nitrobenzene-d5	8.083	82	58475	17.39	ppb	-0.04
Spiked Amount 50.000			Recovery	=	34.78%	
51) 2-Fluorobiphenyl	11.554	172	127747	20.74	ppb	-0.04
Spiked Amount 50.000			Recovery	=	41.48%	
73) 2,4,6-Tribromophenol	14.464	330	20612	21.94	ppb	-0.05
Spiked Amount 50.000			Recovery	=	43.88%	
85) Terphenyl-d14	18.508	244	131761	25.39	ppb	-0.03
Spiked Amount 50.000			Recovery	=	50.78%	
Target Compounds						
					Qvalue	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P729.D
Acq On : 2 Nov 2010 5:02 pm
Operator : kristis
Sample : ja58900-7
Misc : op46332,e3p34,35.3,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 03 12:48:37 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P730.D
 Acq On : 2 Nov 2010 5:31 pm
 Operator : kristis
 Sample : ja58900-8
 Misc : op46332,e3p34,35.4,,,1,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 12:49:18 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	74034	40.00	ppb	-0.04
24) Naphthalene-d8	9.362	136	269403	40.00	ppb	-0.03
47) Acenaphthene-d10	12.838	164	145957	40.00	ppb	-0.04
69) Phenanthrene-d10	15.759	188	207583	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	216746	40.00	ppb	-0.02
92) Perylene-d12	21.776	264	158715	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.987	152	74034	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	145957	40.00	ppb	-0.04
106) Chrysene-d12a	19.936	240	216746	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	145957	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	50316	22.92	ppb	-0.10
Spiked Amount 50.000			Recovery =	45.84%		
8) Phenol-d5	6.575	99	59955	18.67	ppb	-0.04
Spiked Amount 50.000			Recovery =	37.34%		
25) Nitrobenzene-d5	8.083	82	61027	20.91	ppb	-0.04
Spiked Amount 50.000			Recovery =	41.82%		
51) 2-Fluorobiphenyl	11.555	172	132205	25.12	ppb	-0.04
Spiked Amount 50.000			Recovery =	50.24%		
73) 2,4,6-Tribromophenol	14.459	330	20968	27.10	ppb	-0.05
Spiked Amount 50.000			Recovery =	54.20%		
85) Terphenyl-d14	18.508	244	138223	31.40	ppb	-0.03
Spiked Amount 50.000			Recovery =	62.80%		

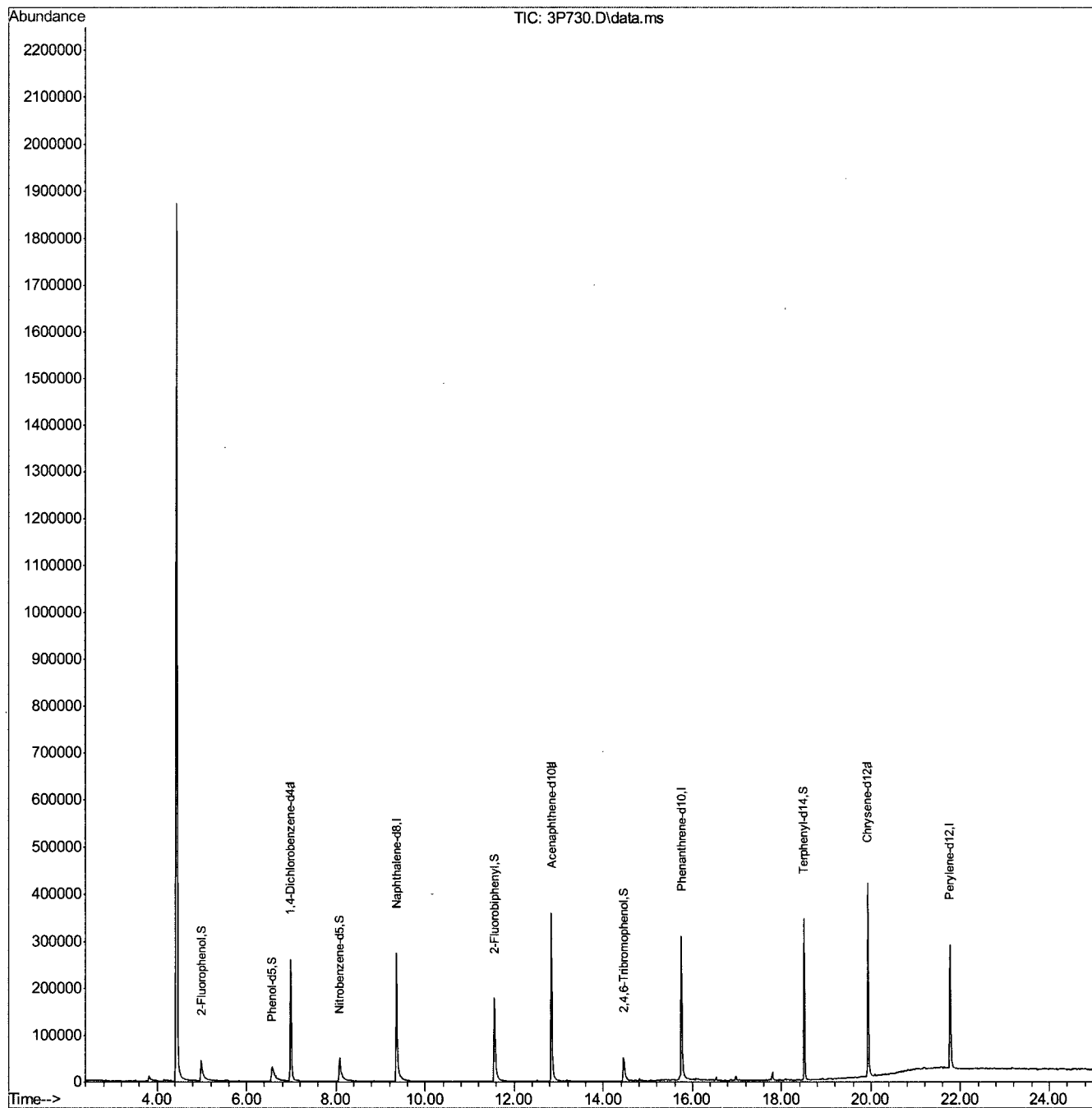
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P730.D
Acq On : 2 Nov 2010 5:31 pm
Operator : kristis
Sample : ja58900-8
Misc : op46332,e3p34,35.4,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 12:49:18 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P731.D
 Acq On : 2 Nov 2010 6:01 pm
 Operator : kristis
 Sample : ja58900-9
 Misc : op46332,e3p34,35.2,,,1,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 12:50:17 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	88505	40.00	ppb	-0.04
24) Naphthalene-d8	9.361	136	318433	40.00	ppb	-0.03
47) Acenaphthene-d10	12.838	164	176044	40.00	ppb	-0.04
69) Phenanthrene-d10	15.758	188	258647	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	273227	40.00	ppb	-0.02
92) Perylene-d12	21.776	264	200481	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.987	152	88505	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	176044	40.00	ppb	-0.04
106) Chrysene-d12a	19.936	240	273227	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	176044	40.00	ppb	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	60919	23.21	ppb	-0.10
Spiked Amount 50.000			Recovery	=	46.42%	
8) Phenol-d5	6.564	99	76965	20.05	ppb	-0.05
Spiked Amount 50.000			Recovery	=	40.10%	
25) Nitrobenzene-d5	8.078	82	85019	24.64	ppb	-0.05
Spiked Amount 50.000			Recovery	=	49.28%	
51) 2-Fluorobiphenyl	11.554	172	179394	28.26	ppb	-0.04
Spiked Amount 50.000			Recovery	=	56.52%	
73) 2,4,6-Tribromophenol	14.459	330	27886	28.92	ppb	-0.05
Spiked Amount 50.000			Recovery	=	57.84%	
85) Terphenyl-d14	18.508	244	173870	31.33	ppb	-0.03
Spiked Amount 50.000			Recovery	=	62.66%	

Target Compounds Qvalue

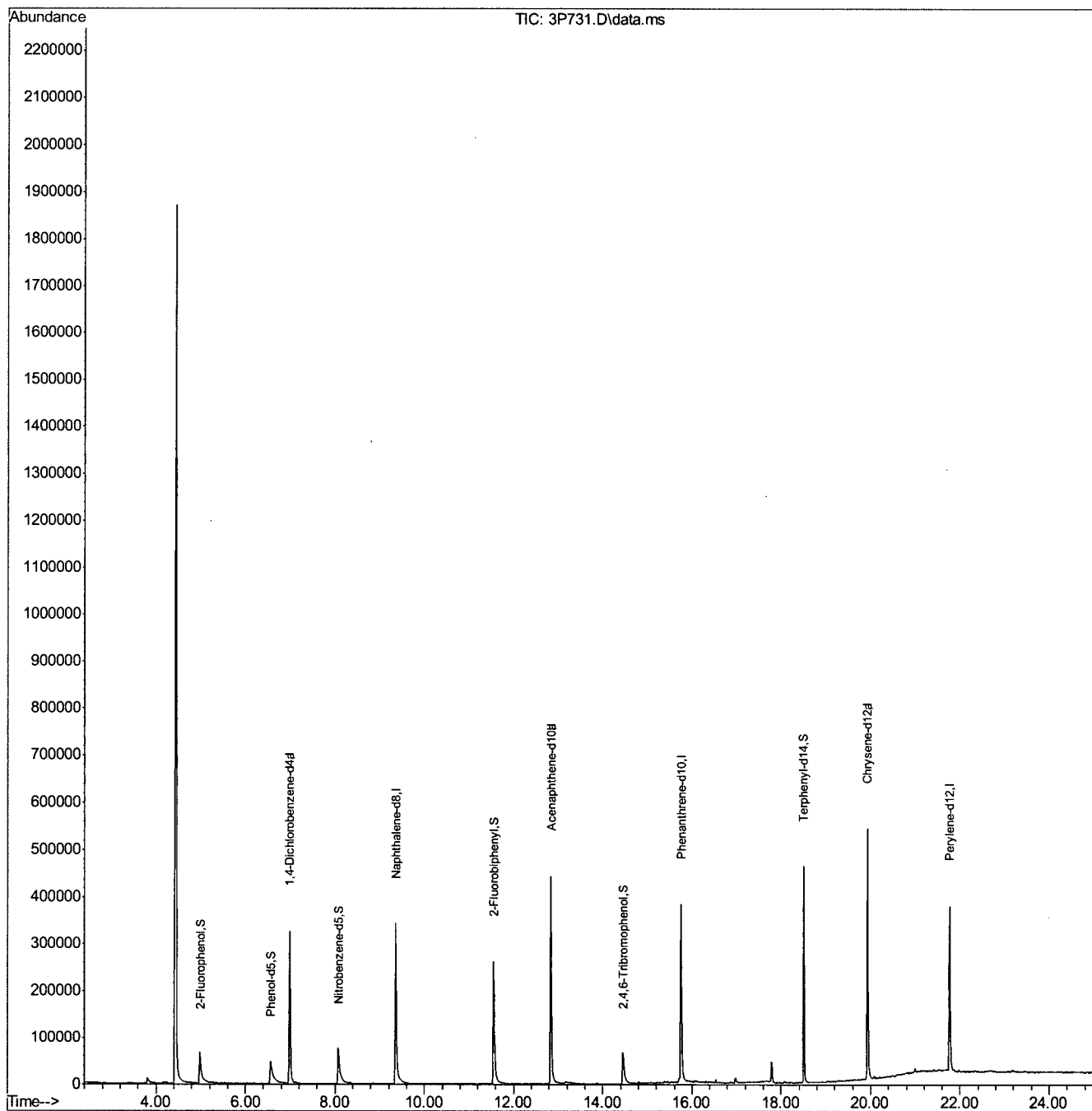
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.19
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P731.D
Acq On : 2 Nov 2010 6:01 pm
Operator : kristis
Sample : ja58900-9
Misc : op46332,e3p34,35.2,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 03 12:50:17 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P736.D
 Acq On : 2 Nov 2010 8:28 pm
 Operator : kristis
 Sample : ja58900-10
 Misc : op46332,e3p34,35.2,,,1,1
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 03 12:56:53 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	91618	40.00	ppb	-0.04
24) Naphthalene-d8	9.356	136	316515	40.00	ppb	-0.04
47) Acenaphthene-d10	12.838	164	171329	40.00	ppb	-0.04
69) Phenanthrene-d10	15.753	188	248553	40.00	ppb	-0.04
83) Chrysene-d12	19.930	240	208409	40.00	ppb	-0.02
92) Perylene-d12	21.770	264	129988	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	6.987	152	91618	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	171329	40.00	ppb	-0.04
106) Chrysene-d12a	19.930	240	208409	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	171329	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.981	112	66331	24.41	ppb	-0.11
Spiked Amount 50.000			Recovery	=	48.82%	
8) Phenol-d5	6.553	99	91420	23.01	ppb	-0.06
Spiked Amount 50.000			Recovery	=	46.02%	
25) Nitrobenzene-d5	8.072	82	96189	28.05	ppb	-0.05
Spiked Amount 50.000			Recovery	=	56.10%	
51) 2-Fluorobiphenyl	11.554	172	206244	33.38	ppb	-0.04
Spiked Amount 50.000			Recovery	=	66.76%	
73) 2,4,6-Tribromophenol	14.448	330	33665	36.33	ppb	-0.06
Spiked Amount 50.000			Recovery	=	72.66%	
85) Terphenyl-d14	18.508	244	176163	41.62	ppb	-0.03
Spiked Amount 50.000			Recovery	=	83.24%	
Target Compounds						
55) Dimethylphthalate	12.501	163	7181	1.30	ppb	91
81) Fluoranthene	17.887	202	6332	0.81	ppb	94
84) Pyrene	18.224	202	5867	0.80	ppb	93
88) Benzo[a]anthracene	19.909	228	2681	0.45	ppb	92
90) Chrysene	19.962	228	3666	0.73	ppb	98

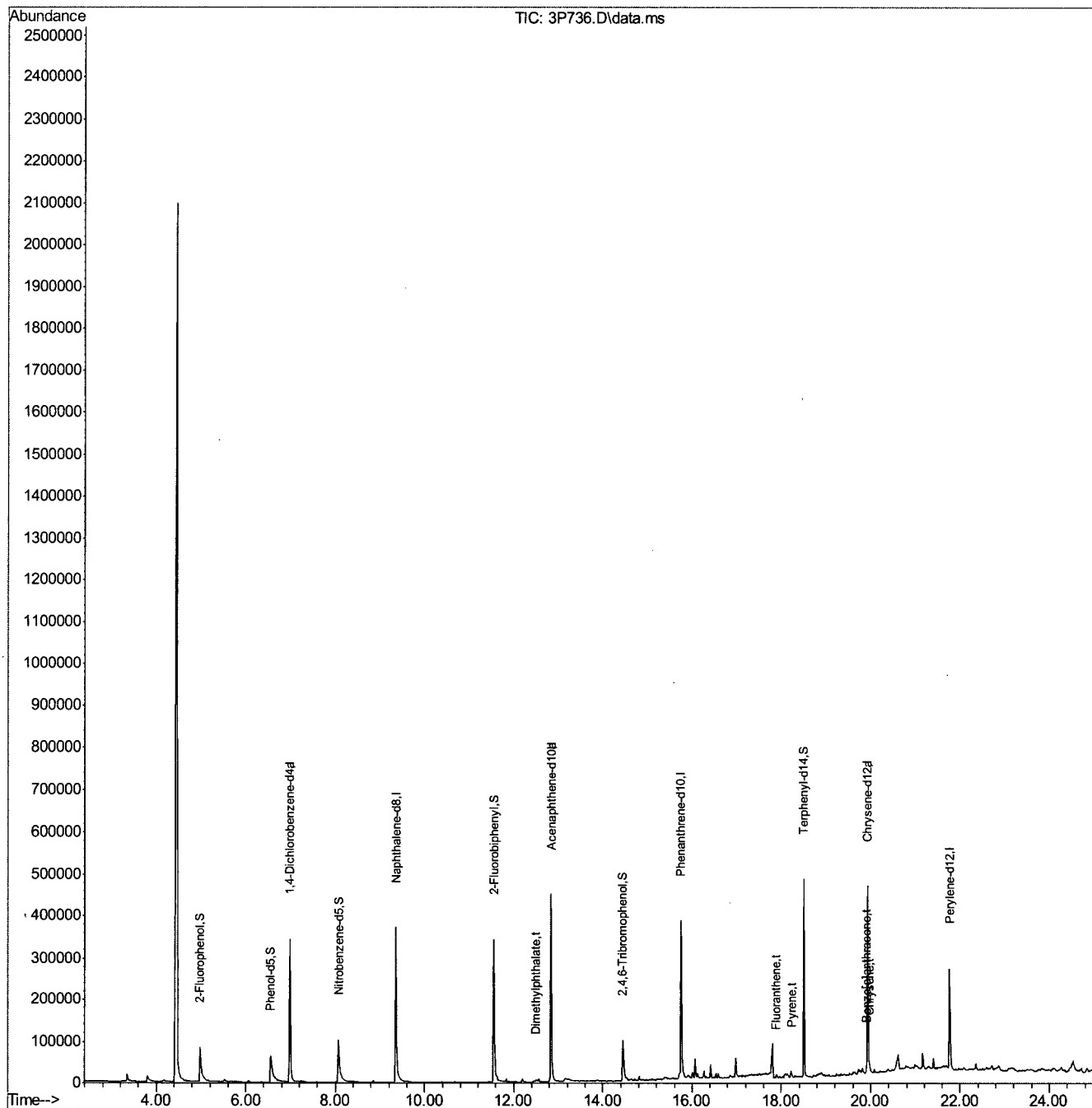
(#) = qualifier out of range (m) = manual integration (+) = signals summed

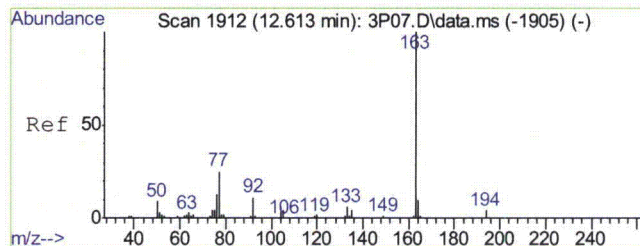
8.1.10
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P736.D
Acq On : 2 Nov 2010 8:28 pm
Operator : kristis
Sample : ja58900-10
Misc : op46332,e3p34,35.2,,,1,1
ALS Vial : 22 Sample Multiplier: 1

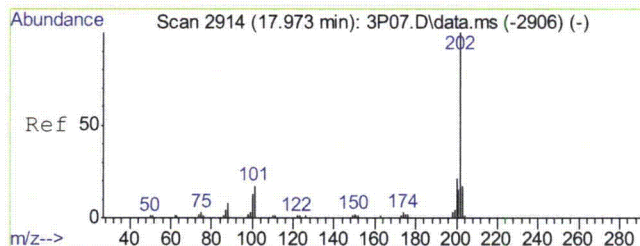
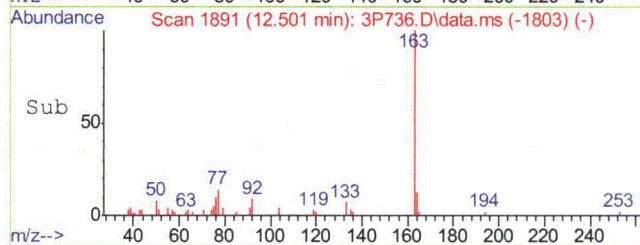
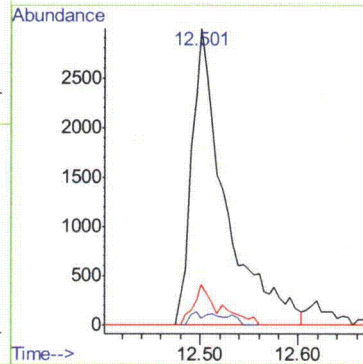
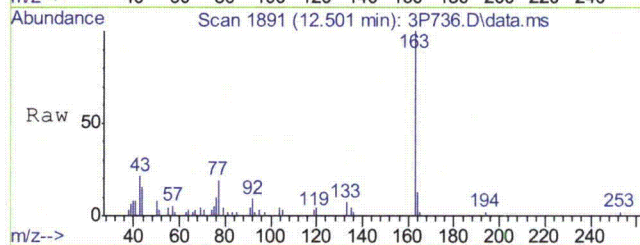
Quant Time: Nov 03 12:56:53 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





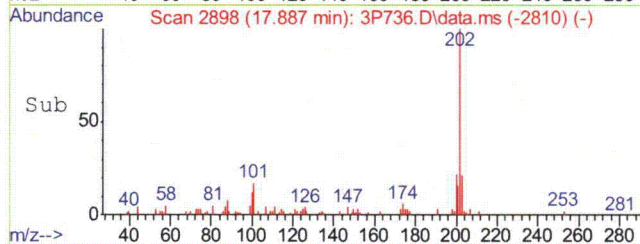
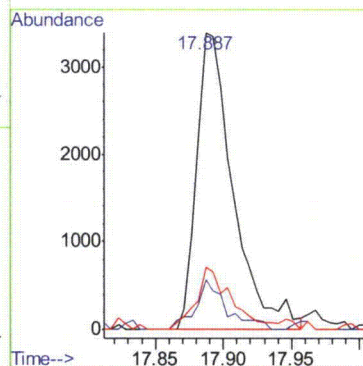
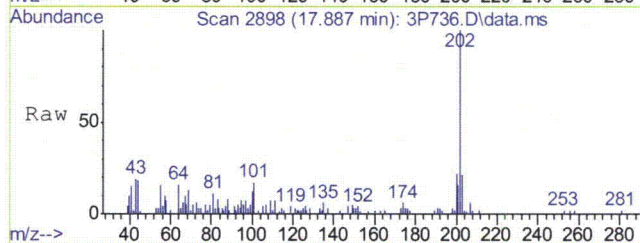
#55
Dimethylphthalate
Concen: 1.30 ppb
RT: 12.501 min Scan# 1891
Delta R.T. -0.032 min
Lab File: 3P736.D
Acq: 2 Nov 2010 8:28 pm

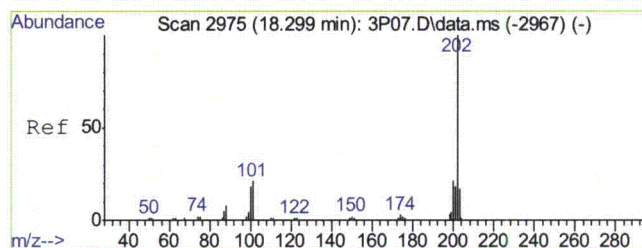
Tgt Ion:163 Resp: 7181
Ion Ratio Lower Upper
163 100
194 2.5 0.0 34.3
164 13.8 0.0 40.1



#81
Fluoranthene
Concen: 0.81 ppb
RT: 17.887 min Scan# 2898
Delta R.T. -0.027 min
Lab File: 3P736.D
Acq: 2 Nov 2010 8:28 pm

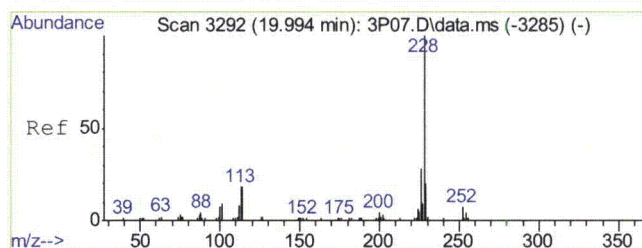
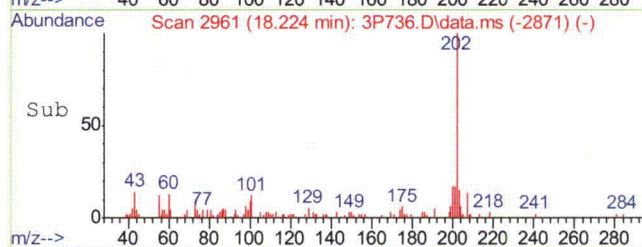
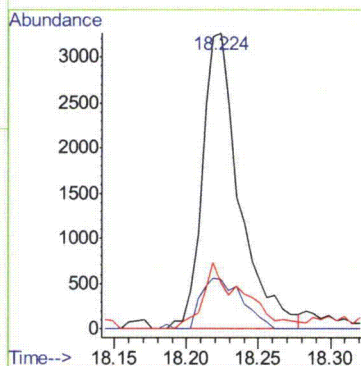
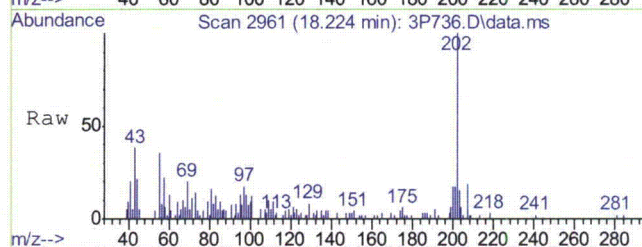
Tgt Ion:202 Resp: 6332
Ion Ratio Lower Upper
202 100
101 16.6 0.0 45.9
203 21.0 0.0 46.8





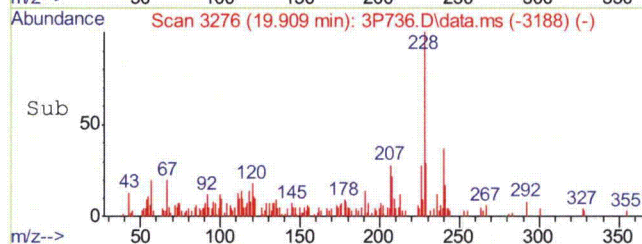
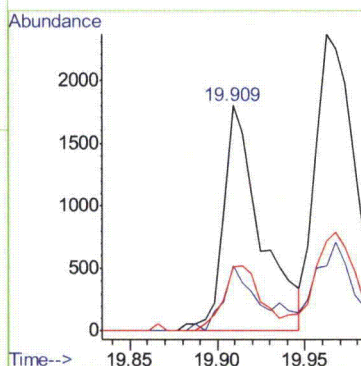
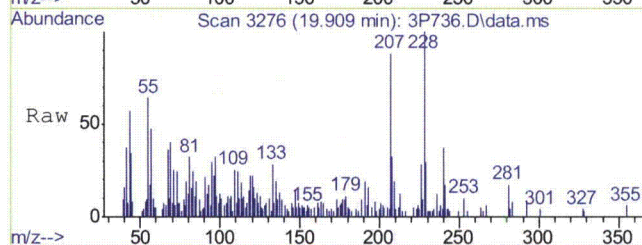
#84
Pyrene
Concen: 0.80 ppb
RT: 18.224 min Scan# 2961
Delta R.T. -0.021 min
Lab File: 3P736.D
Acq: 2 Nov 2010 8:28 pm

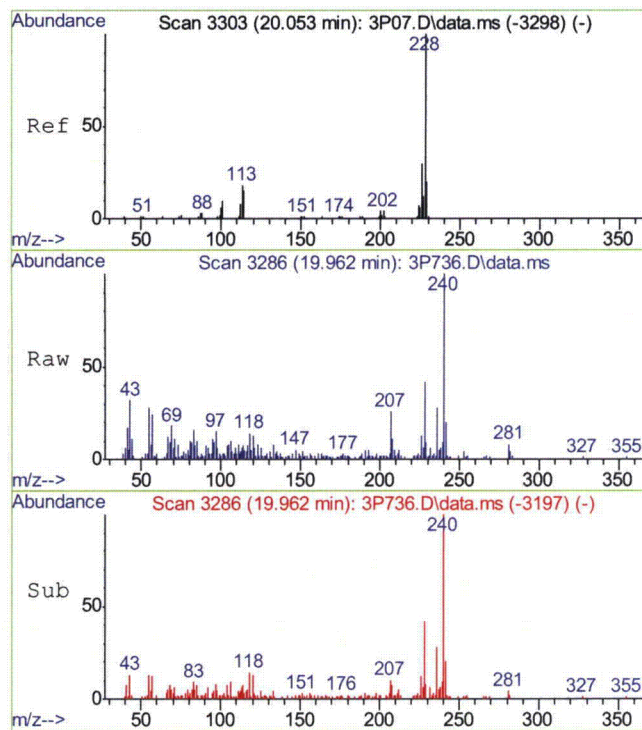
Tgt Ion:202 Resp: 5867
Ion Ratio Lower Upper
202 100
200 16.2 0.0 50.7
203 14.6 0.0 46.3



#88
Benzo[a]anthracene
Concen: 0.45 ppb
RT: 19.909 min Scan# 3276
Delta R.T. -0.027 min
Lab File: 3P736.D
Acq: 2 Nov 2010 8:28 pm

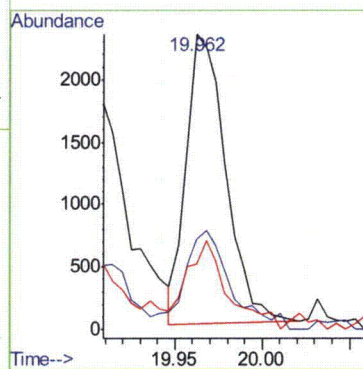
Tgt Ion:228 Resp: 2681
Ion Ratio Lower Upper
228 100
229 27.5 0.0 50.1
226 27.1 0.0 58.3





#90
Chrysene
Concen: 0.73 ppb
RT: 19.962 min Scan# 3286
Delta R.T. -0.027 min
Lab File: 3P736.D
Acq: 2 Nov 2010 8:28 pm

Tgt Ion	228	226	229
Resp:	3666		
Ratio	100	30.1	17.6
Lower		0.4	0.0
Upper		60.4	49.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P737.D
 Acq On : 2 Nov 2010 8:58 pm
 Operator : kristis
 Sample : ja58900-11
 Misc : op46332,e3p34,35.2,,,1,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 03 12:57:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

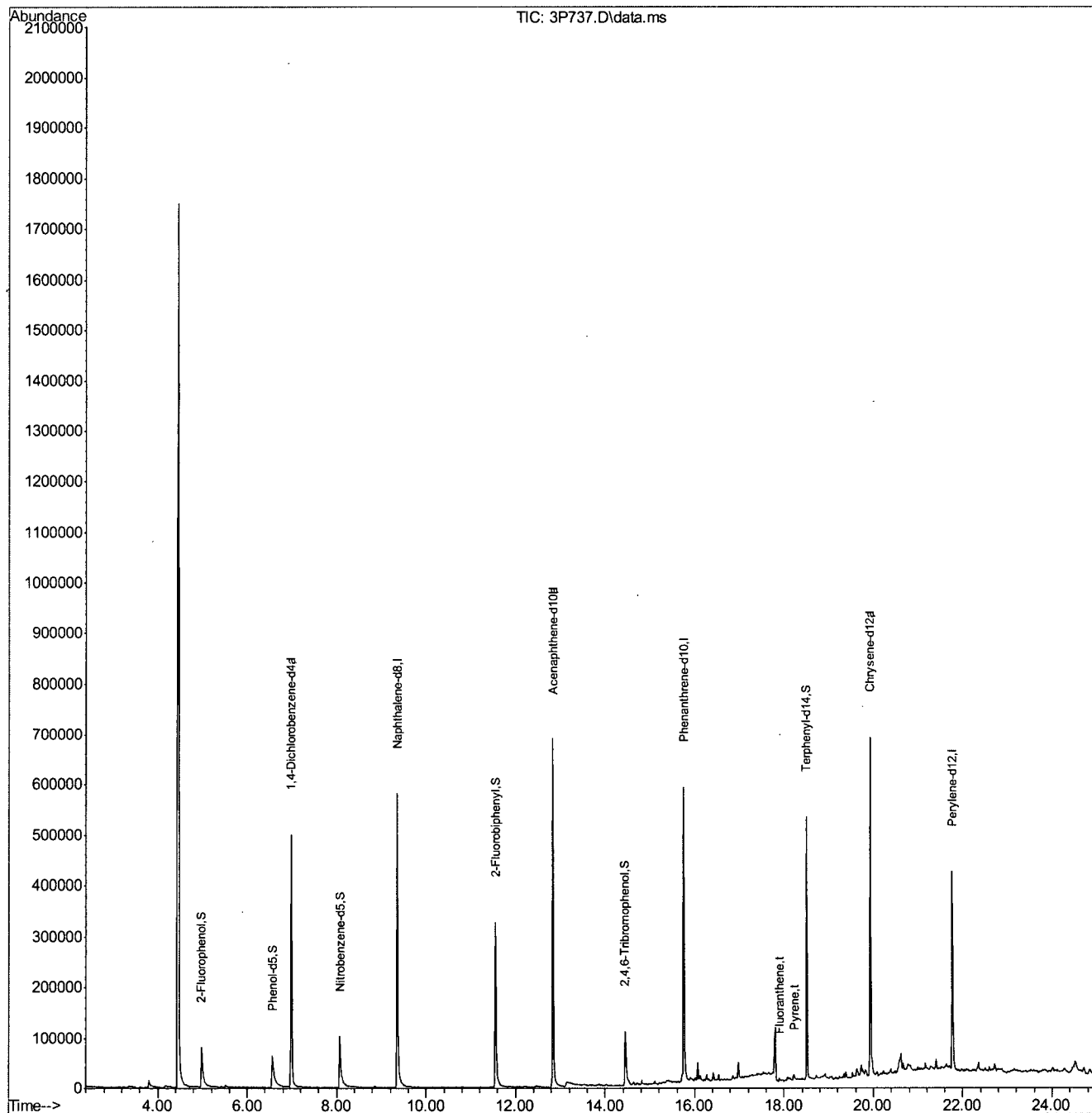
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	130776	40.00	ppb	-0.04
24) Naphthalene-d8	9.356	136	471444	40.00	ppb	-0.04
47) Acenaphthene-d10	12.838	164	257210	40.00	ppb	-0.04
69) Phenanthrene-d10	15.758	188	379143	40.00	ppb	-0.03
83) Chrysene-d12	19.930	240	303558	40.00	ppb	-0.02
92) Perylene-d12	21.770	264	198562	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	6.987	152	130776	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	257210	40.00	ppb	-0.04
106) Chrysene-d12a	19.930	240	303558	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	257210	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.981	112	67751	17.47	ppb	-0.11
Spiked Amount 50.000			Recovery	=	34.94%	
8) Phenol-d5	6.564	99	89744	15.82	ppb	-0.05
Spiked Amount 50.000			Recovery	=	31.64%	
25) Nitrobenzene-d5	8.072	82	97518	19.09	ppb	-0.05
Spiked Amount 50.000			Recovery	=	38.18%	
51) 2-Fluorobiphenyl	11.554	172	192413	20.74	ppb	-0.04
Spiked Amount 50.000			Recovery	=	41.48%	
73) 2,4,6-Tribromophenol	14.448	330	36377	25.74	ppb	-0.06
Spiked Amount 50.000			Recovery	=	51.48%	
85) Terphenyl-d14	18.508	244	189663	30.77	ppb	-0.03
Spiked Amount 50.000			Recovery	=	61.54%	
Target Compounds						
81) Fluoranthene	17.892	202	5124	0.43	ppb	95
84) Pyrene	18.224	202	4519	0.42	ppb	89

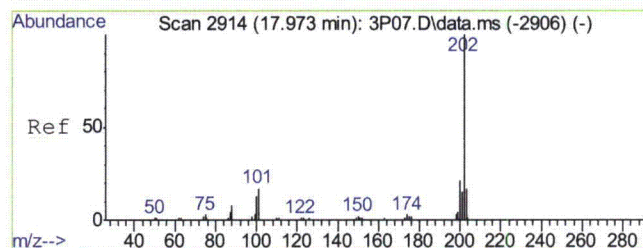
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P737.D
Acq On : 2 Nov 2010 8:58 pm
Operator : kristis
Sample : ja58900-11
Misc : op46332,e3p34,35.2,,,1,1
ALS Vial : 23 Sample Multiplier: 1

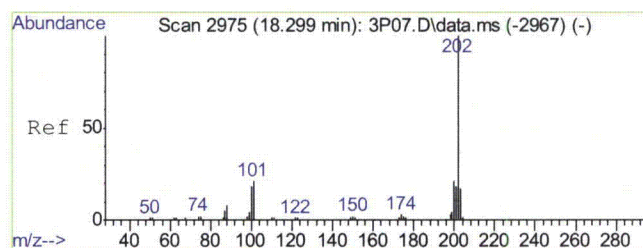
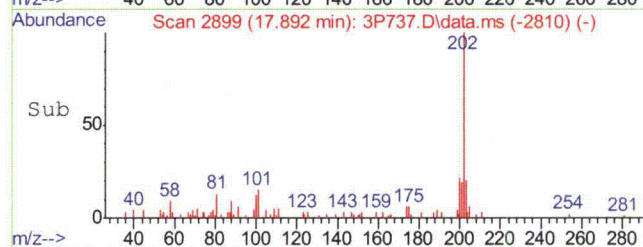
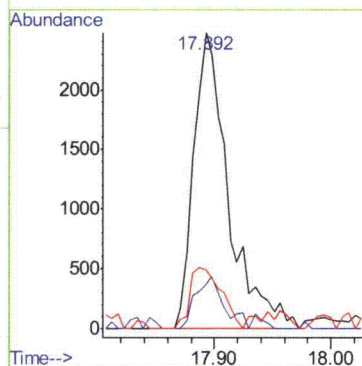
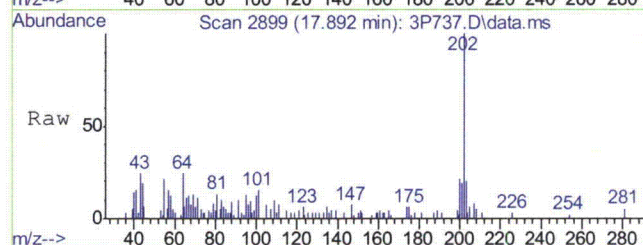
Quant Time: Nov 03 12:57:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





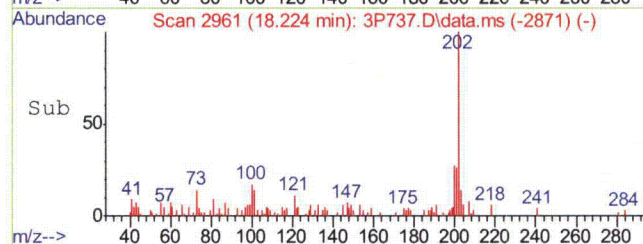
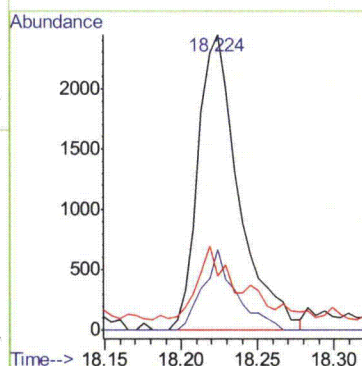
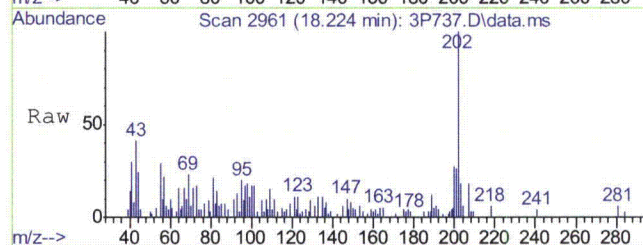
#81
Fluoranthene
Concen: 0.43 ppb
RT: 17.892 min Scan# 2899
Delta R.T. -0.022 min
Lab File: 3P737.D
Acq: 2 Nov 2010 8:58 pm

Tgt Ion:202 Resp: 5124
Ion Ratio Lower Upper
202 100
101 14.7 0.0 45.9
203 19.8 0.0 46.8



#84
Pyrene
Concen: 0.42 ppb
RT: 18.224 min Scan# 2961
Delta R.T. -0.021 min
Lab File: 3P737.D
Acq: 2 Nov 2010 8:58 pm

Tgt Ion:202 Resp: 4519
Ion Ratio Lower Upper
202 100
200 28.0 0.0 50.7
203 13.7 0.0 46.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P732.D
 Acq On : 2 Nov 2010 6:30 pm
 Operator : kristis
 Sample : ja58900-12
 Misc : op46332,e3p34,35.3,,,1,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 04 11:32:21 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	105631	40.00	ppb	-0.04
24) Naphthalene-d8	9.356	136	380390	40.00	ppb	-0.04
47) Acenaphthene-d10	12.838	164	208582	40.00	ppb	-0.04
69) Phenanthrene-d10	15.759	188	293966	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	312670	40.00	ppb	-0.02
92) Perylene-d12	21.770	264	227564	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	6.987	152	105631	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	208582	40.00	ppb	-0.04
106) Chrysene-d12a	19.936	240	312670	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	208582	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.981	112	69400	22.15	ppb	-0.11
Spiked Amount	50.000		Recovery	=	44.30%	
8) Phenol-d5	6.554	99	96611	21.09	ppb	-0.06
Spiked Amount	50.000		Recovery	=	42.18%	
25) Nitrobenzene-d5	8.073	82	84721	20.55	ppb	-0.05
Spiked Amount	50.000		Recovery	=	41.10%	
51) 2-Fluorobiphenyl	11.555	172	178496	23.73	ppb	-0.04
Spiked Amount	50.000		Recovery	=	47.46%	
73) 2,4,6-Tribromophenol	14.453	330	32108	29.30	ppb	-0.06
Spiked Amount	50.000		Recovery	=	58.60%	
85) Terphenyl-d14	18.508	244	223724	35.23	ppb	-0.03
Spiked Amount	50.000		Recovery	=	70.46%	
Target Compounds						
55) Dimethylphthalate	12.507	163	12277	1.83	ppb	Qvalue 90

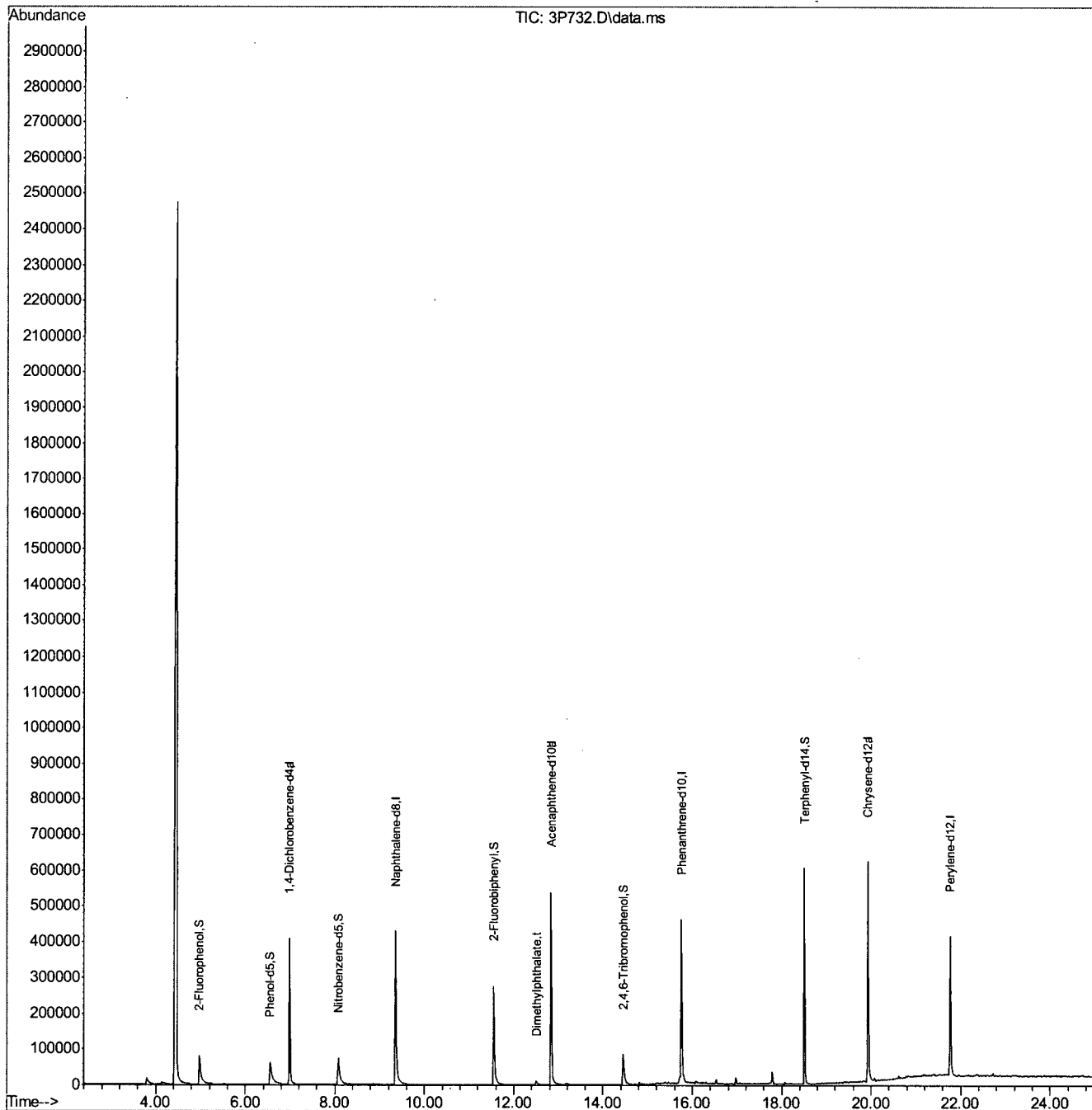
(#) = qualifier out of range (m) = manual integration (+) = signals summed

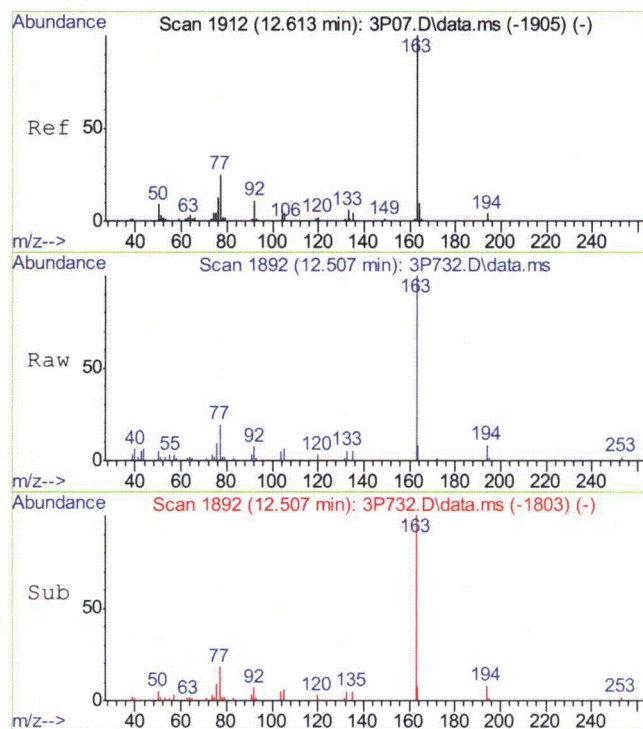
8.112
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P732.D
Acq On : 2 Nov 2010 6:30 pm
Operator : kristis
Sample : ja58900-12
Misc : op46332,e3p34,35.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 04 11:32:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





#55

Dimethylphthalate

Concen: 1.83 ppb

RT: 12.507 min Scan# 1892

Delta R.T. -0.026 min

Lab File: 3P732.D

Acq: 2 Nov 2010 6:30 pm

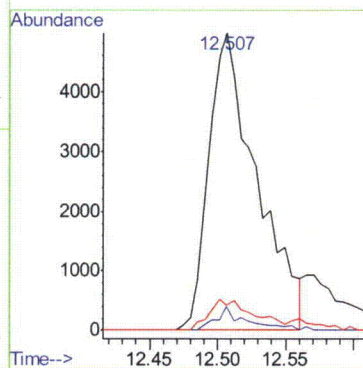
Tgt Ion:163 Resp: 12277

Ion Ratio Lower Upper

163 100

194 8.9 0.0 34.3

164 7.2 0.0 40.1

8.112
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P733.D
 Acq On : 2 Nov 2010 7:00 pm
 Operator : kristis
 Sample : ja58900-14
 Misc : op46332,e3p34,35.1,,,1,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 03 12:53:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.987	152	97184	40.00	ppb	-0.04
24) Naphthalene-d8	9.356	136	353091	40.00	ppb	-0.04
47) Acenaphthene-d10	12.838	164	191677	40.00	ppb	-0.04
69) Phenanthrene-d10	15.759	188	269489	40.00	ppb	-0.03
83) Chrysene-d12	19.931	240	273471	40.00	ppb	-0.02
92) Perylene-d12	21.770	264	196663	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	6.987	152	97184	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	191677	40.00	ppb	-0.04
106) Chrysene-d12a	19.931	240	273471	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	191677	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.981	112	66562	23.10	ppb	-0.11
Spiked Amount 50.000			Recovery =	46.20%		
8) Phenol-d5	6.559	99	83297	19.76	ppb	-0.06
Spiked Amount 50.000			Recovery =	39.52%		
25) Nitrobenzene-d5	8.073	82	80065	20.93	ppb	-0.05
Spiked Amount 50.000			Recovery =	41.86%		
51) 2-Fluorobiphenyl	11.555	172	166908	24.15	ppb	-0.04
Spiked Amount 50.000			Recovery =	48.30%		
73) 2,4,6-Tribromophenol	14.454	330	30123	29.99	ppb	-0.06
Spiked Amount 50.000			Recovery =	59.98%		
85) Terphenyl-d14	18.508	244	178671	32.17	ppb	-0.03
Spiked Amount 50.000			Recovery =	64.34%		
Target Compounds						
55) Dimethylphthalate	12.501	163	15092	2.45	ppb	Qvalue 97

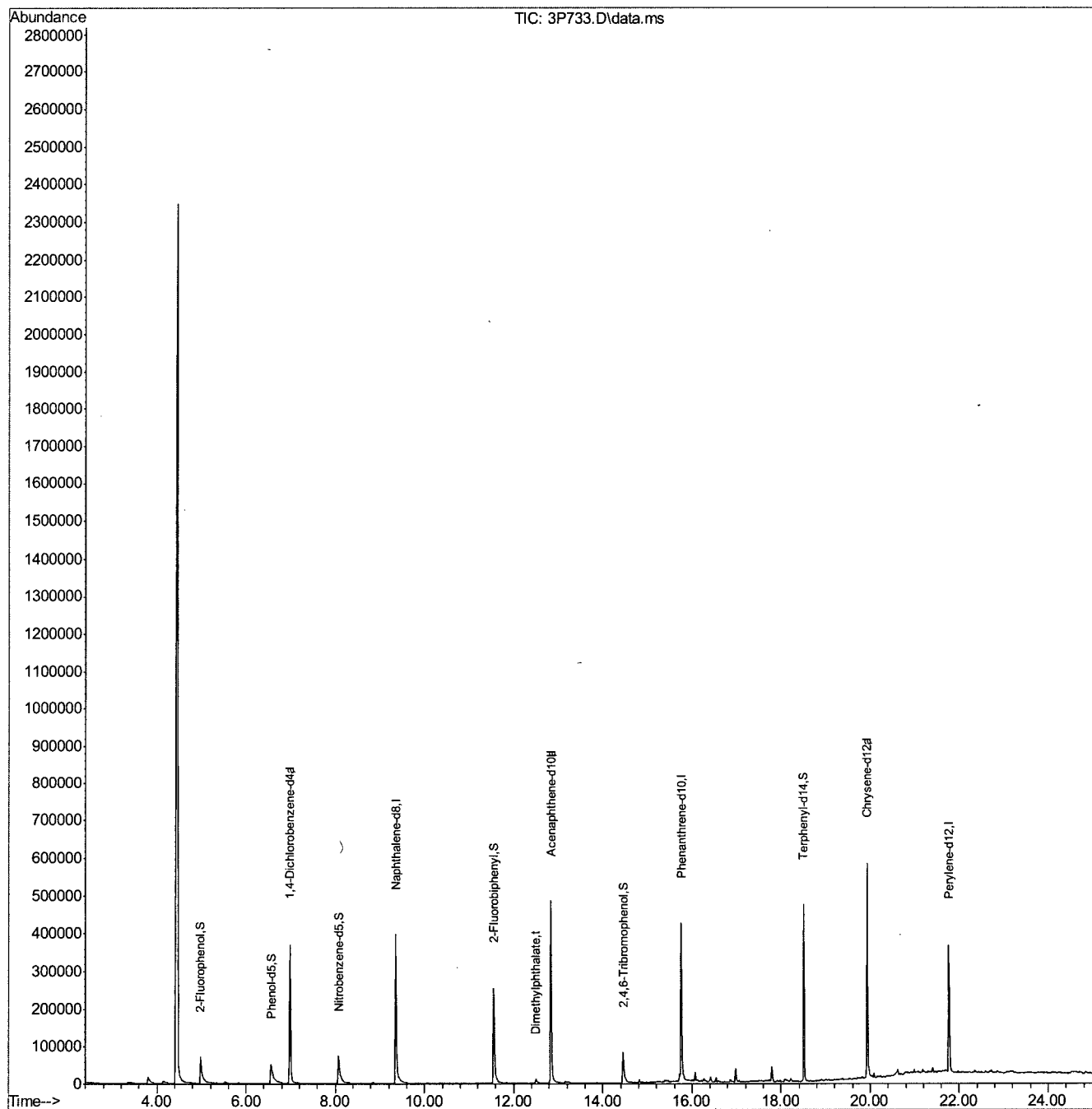
(#) = qualifier out of range (m) = manual integration (+) = signals summed

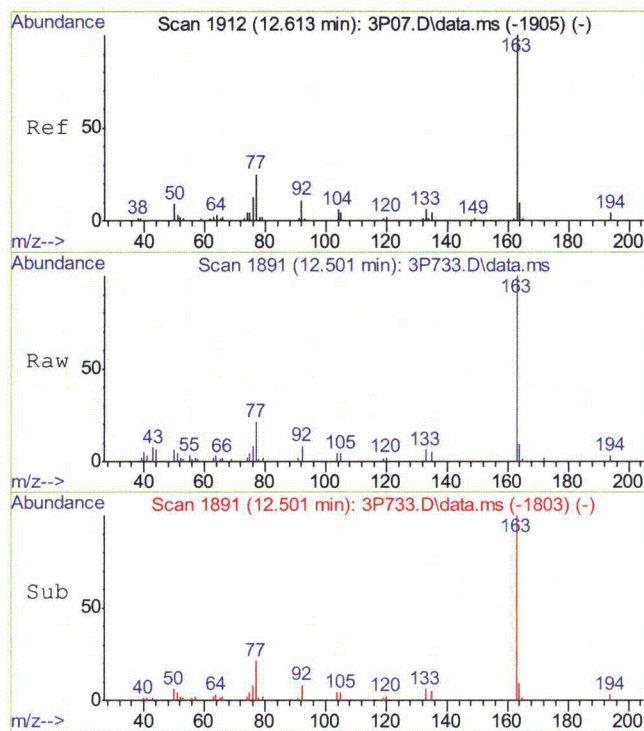
8.1.13
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P733.D
Acq On : 2 Nov 2010 7:00 pm
Operator : kristis
Sample : ja58900-14
Misc : op46332,e3p34,35.1,,,1,1
ALS Vial : 19 Sample Multiplier: 1

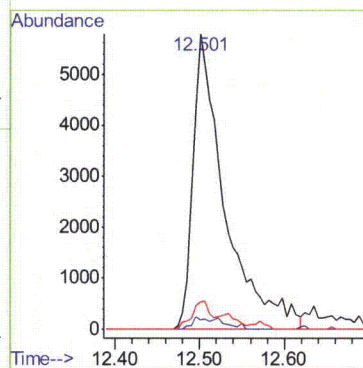
Quant Time: Nov 03 12:53:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration





#55
Dimethylphthalate
Concen: 2.45 ppb
RT: 12.501 min Scan# 1891
Delta R.T. -0.032 min
Lab File: 3P733.D
Acq: 2 Nov 2010 7:00 pm

Tgt Ion:163 Resp: 15092
Ion Ratio Lower Upper
163 100
194 2.6 0.0 34.3
164 9.3 0.0 40.1

8.113
8

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92524.D Vial: 4
 Acq On : 21 Oct 2010 6:22 pm Operator: ninap
 Sample : op46278-mb1 Inst : MSF
 Misc : op46278,ef4333,1000 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 18:39:43 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.32	152	180528	40.00	ppb	0.00
24) Naphthalene-d8	4.99	136	635402	40.00	ppb	-0.01
47) Acenaphthene-d10	7.66	164	418130	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	696475	40.00	ppb	-0.02
83) Chrysene-d12	13.48	240	788979	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	671029	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.32	152	180528	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	418130	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	696475	40.00	ppb	-0.02
108) Chrysene-d12a	13.48	240	788979	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	136127	23.13	ppb	0.00
Spiked Amount 50.000			Recovery =	46.26%		
8) Phenol-d5	3.01	99	92074	12.89	ppb	0.00
Spiked Amount 50.000			Recovery =	25.78%		
25) Nitrobenzene-d5	4.05	82	307339	48.96	ppb	0.00
Spiked Amount 50.000			Recovery =	97.92%		
51) 2-Fluorobiphenyl	6.69	172	699125	46.79	ppb	-0.01
Spiked Amount 50.000			Recovery =	93.58%		
73) 2,4,6-Tribromophenol	8.90	330	89915	53.59	ppb	-0.02
Spiked Amount 50.000			Recovery =	107.18%		
85) Terphenyl-d14	12.35	244	819869	51.17	ppb	-0.01
Spiked Amount 50.000			Recovery =	102.34%		

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92524.D MF4329.M Fri Oct 22 07:26:04 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92524.D

Vial: 4

Acq On : 21 Oct 2010 6:22 pm

Operator: ninap

Sample : op46278-mb1

Inst : MSF

Misc : op46278,ef4333,1000

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 7:25 2010

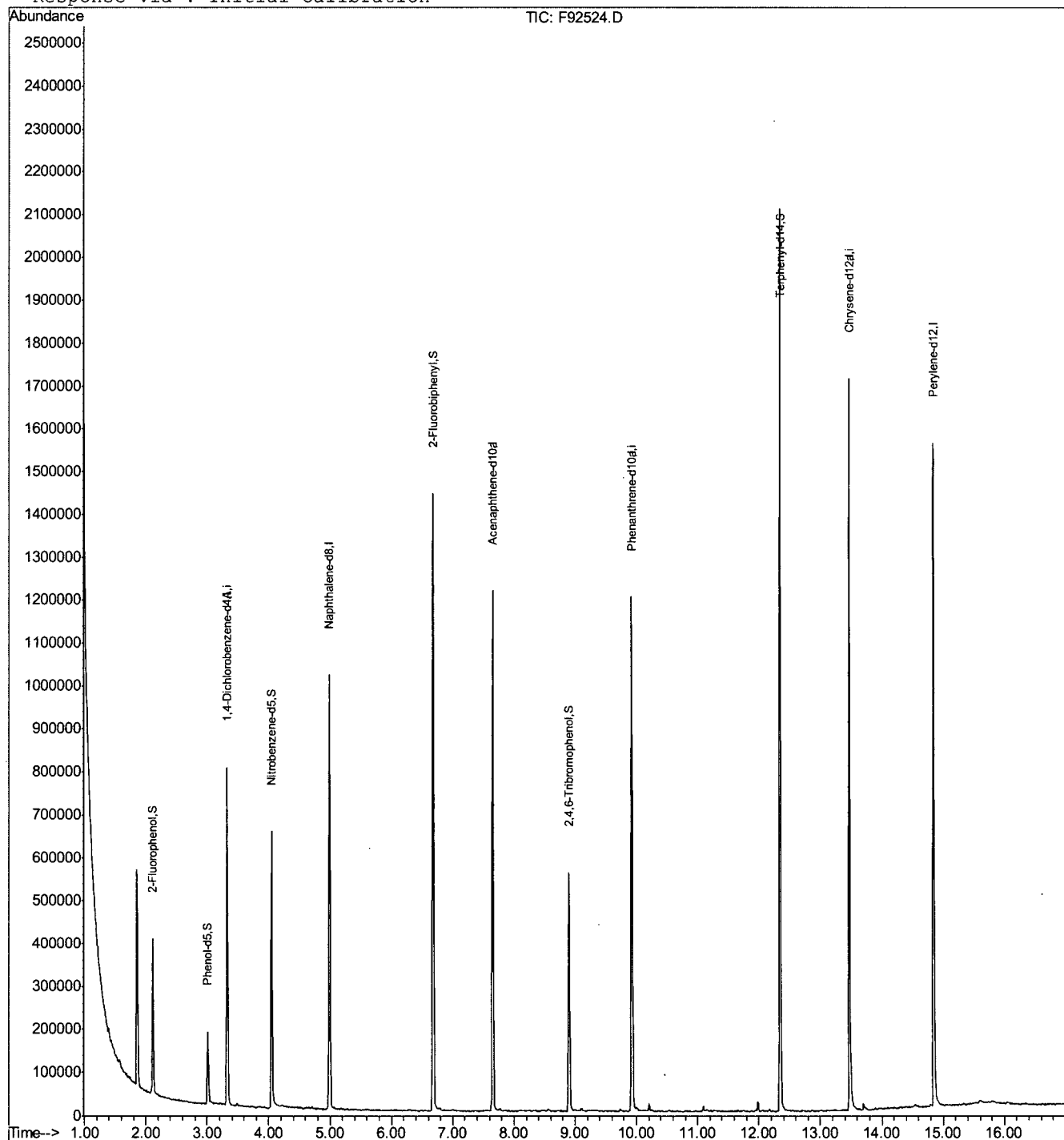
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



F92524.D MF4329.M

Fri Oct 22 07:26:05 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P616.D
 Acq On : 26 Oct 2010 1:48 pm
 Operator : kristis
 Sample : op46332-mb1
 Misc : op46332,e3p29,35.0,,,1,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 15:00:42 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.013	152	72359	40.00	ppb	-0.02
24) Naphthalene-d8	9.388	136	265944	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	139284	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	212664	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	198698	40.00	ppb	0.00
92) Perylene-d12	21.786	264	136320	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.013	152	72359	40.00	ppb	-0.02
104) Acenaphthene-d10a	12.870	164	139284	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	198698	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	139284	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.997	112	78084	36.39	ppb	-0.09
Spiked Amount 50.000			Recovery	=	72.78%	
8) Phenol-d5	6.564	99	102660	32.72	ppb	-0.05
Spiked Amount 50.000			Recovery	=	65.44%	
25) Nitrobenzene-d5	8.094	82	119716	41.54	ppb	-0.03
Spiked Amount 50.000			Recovery	=	83.08%	
51) 2-Fluorobiphenyl	11.586	172	210896	41.99	ppb	0.00
Spiked Amount 50.000			Recovery	=	83.98%	
73) 2,4,6-Tribromophenol	14.480	330	30480	38.45	ppb	-0.03
Spiked Amount 50.000			Recovery	=	76.90%	
85) Terphenyl-d14	18.529	244	185486	45.97	ppb	-0.01
Spiked Amount 50.000			Recovery	=	91.94%	
Target Compounds						Qvalue

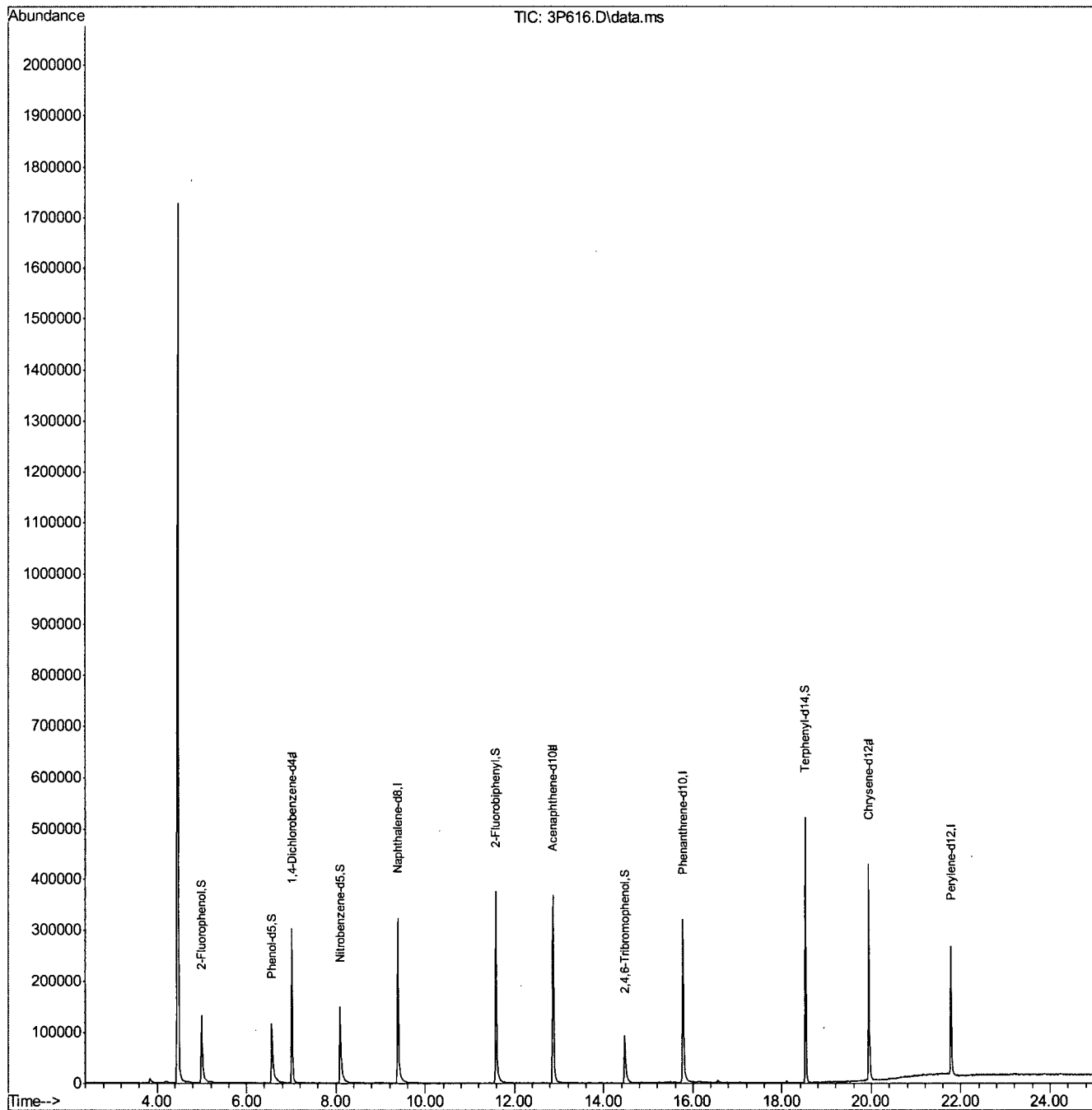
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.2.2
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P616.D
Acq On : 26 Oct 2010 1:48 pm
Operator : kristis
Sample : op46332-mb1
Misc : op46332,e3p29,35.0,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 15:00:42 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92525.D

Vial: 5

Acq On : 21 Oct 2010 6:46 pm

Operator: ninap

Sample : op46278-bs1

Inst : MSF

Misc : op46278,ef4333,1000

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 19:03:57 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	193473	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	687704	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	417572	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	711604	40.00	ppb	-0.01
83) Chrysene-d12	13.48	240	798534	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	691154	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	193473	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	417572	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	711604	40.00	ppb	-0.01
108) Chrysene-d12a	13.48	240	798534	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.12	112	163434	25.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	51.82%	
8) Phenol-d5	3.02	99	145710	19.03	ppb	0.00
Spiked Amount	50.000		Recovery	=	38.06%	
25) Nitrobenzene-d5	4.05	82	332975	49.01	ppb	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
51) 2-Fluorobiphenyl	6.69	172	701744	47.03	ppb	-0.01
Spiked Amount	50.000		Recovery	=	94.06%	
73) 2,4,6-Tribromophenol	8.91	330	86826	50.65	ppb	-0.01
Spiked Amount	50.000		Recovery	=	101.30%	
85) Terphenyl-d14	12.35	244	816993	50.38	ppb	-0.01
Spiked Amount	50.000		Recovery	=	100.76%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	52780	16.54	ppb	# 49
3) Pyridine	1.28	79	134972	17.82	ppb	99
4) N-Nitrosodimethylamine	1.27	74	97209	21.28	ppb	96
6) Indene	3.66	116	354354	37.52	ppb	99
7) Cumene	2.54	105	369903	28.64	ppb	99
9) Phenol	3.03	94	169421	20.43	ppb	74
10) Aniline	3.02	93	345053	38.03	ppb	81
11) bis(2-Chloroethyl)ether	3.10	93	290321	42.42	ppb	99
12) 2-Chlorophenol	3.13	128	256298	41.24	ppb	98
13) Decane	3.21	43	227929	30.60	ppb	96
14) 1,3-Dichlorobenzene	3.28	146	231260	29.78	ppb	100
15) 1,4-Dichlorobenzene	3.35	146	228616	30.42	ppb	99
16) Benzyl alcohol	3.54	108	155116	39.60	ppb	99
17) 1,2-Dichlorobenzene	3.57	146	231575	32.39	ppb	99
18) Acetophenone	3.87	105	391375	47.61	ppb	99
19) 2-Methylphenol	3.73	108	205244	38.31	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.75	121	87122	43.37	ppb	93
21) 3&4-Methylphenol	3.92	108	195764	35.35	ppb	97
22) n-Nitroso-di-n-propylamine	3.92	70	198352	44.77	ppb	94
23) Hexachloroethane	3.94	201	67581	25.31	ppb	98
26) Nitrobenzene	4.08	123	140547	44.86	ppb	97
27) Quinoline	5.53	129	587457	49.71	ppb	98
28) Isophorone	4.40	82	594363	46.98	ppb	99
29) 2-Nitrophenol	4.51	139	141206	47.20	ppb	78

(#)= qualifier out of range (m) = manual integration

F92525.D MF4329.M

Fri Oct 22 07:26:45 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92525.D

Vial: 5

Acq On : 21 Oct 2010 6:46 pm

Operator: ninap

Sample : op46278-bs1

Inst : MSF

Misc : op46278,ef4333,1000

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 19:03:57 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	252972	46.89	ppb	98
31) Benzoic acid	4.80	105	70733	18.85	ppb	97
32) bis(2-Chloroethoxy)methane	4.77	93	369950	48.50	ppb	99
33) 2,4-Dichlorophenol	4.84	162	239763	44.26	ppb	98
34) 2,6-Dichlorophenol	5.18	162	230583	43.41	ppb	99
36) 1,2,4-Trichlorobenzene	4.95	180	221064	34.04	ppb	98
38) Naphthalene	5.02	128	734700	39.02	ppb	99
39) 4-Chloroaniline	5.18	127	326434	42.78	ppb	98
40) 2,3-Dichloroaniline	6.55	161	288585	42.95	ppb	99
41) Caprolactam	5.63	55	29062	8.32	ppb	97
42) Hexachlorobutadiene	5.33	225	107410	28.49	ppb	97
43) 4-Chloro-3-methylphenol	5.97	107	235304	45.07	ppb	86
44) 2-Methylnaphthalene	6.05	142	506768	37.50	ppb	98
45) 1-Methylnaphthalene	6.20	142	517310	40.82	ppb	99
46) Dimethylnaphthalene	7.02	156	473369	41.42	ppb	99
48) Hexachlorocyclopentadiene	6.42	237	254495	100.77	ppb	99
49) 2,4,6-Trichlorophenol	6.56	196	173138	43.97	ppb	98
50) 2,4,5-Trichlorophenol	6.61	196	195743	44.40	ppb	99
52) 2-Chloronaphthalene	6.78	162	516800	40.77	ppb	99
53) Biphenyl	6.80	154	647788	42.92	ppb	100
54) 2-Nitroaniline	7.03	65	160275	47.59	ppb	97
55) Dimethylphthalate	7.43	163	616837	43.76	ppb	100
56) Acenaphthylene	7.41	152	834818	42.09	ppb	99
57) 2,6-Dinitrotoluene	7.50	165	138554	50.51	ppb	95
58) 3-Nitroaniline	7.69	138	136441	44.88	ppb	99
59) Acenaphthene	7.71	153	515400	50.68	ppb	100
60) 2,4-Dinitrophenol	7.85	184	140538	92.12	ppb	96
61) 4-Nitrophenol	8.05	109	28770	19.96	ppb	96
62) Dibenzofuran	7.96	168	776722	44.28	ppb	99
63) 2,4-Dinitrotoluene	8.10	165	194365	52.40	ppb	98
64) 2,3,4,6-Tetrachlorophenol	8.26	232	151694	41.31	ppb #	18
65) Diethylphthalate	8.56	149	579733	45.34	ppb	99
66) Fluorene	8.50	166	655198	45.26	ppb	98
67) 4-Chlorophenyl-phenylether	8.57	204	296465	43.83	ppb	99
68) 4-Nitroaniline	8.65	138	162042	47.22	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.72	198	104519	44.26	ppb	99
71) n-Nitrosodiphenylamine	8.77	169	467750	47.02	ppb	99
72) 1,2-Diphenylhydrazine	8.80	77	641818	45.92	ppb	99
74) 4-Bromophenyl-phenylether	9.31	248	196711	45.30	ppb	100
75) Hexachlorobenzene	9.48	284	201023	46.79	ppb	99
76) Pentachlorophenol	9.79	266	117940	46.74	ppb	98
77) Phenanthrene	9.97	178	942813	51.93	ppb	99
78) Anthracene	10.03	178	915361	52.91	ppb	99
79) Carbazole	10.35	167	902435	46.25	ppb	99
80) Di-n-butylphthalate	11.15	149	1076594	47.32	ppb	100
81) Fluoranthene	11.77	202	1086730	45.68	ppb	99
82) Octadecane	10.03	57	390646	45.72	ppb	99
84) Pyrene	12.04	202	1119466	44.09	ppb	98
86) Butylbenzylphthalate	13.02	149	467008	47.58	ppb	98

(#) = qualifier out of range (m) = manual integration

F92525.D MF4329.M

Fri Oct 22 07:26:45 2010

GCMS3A

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92525.D Vial: 5
Acq On : 21 Oct 2010 6:46 pm Operator: ninap
Sample : op46278-bs1 Inst : MSF
Misc : op46278,ef4333,1000 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 19:03:57 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration
DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) Benzo[a]anthracene	13.46	228	1043947	45.71	ppb	100
89) 3,3'-Dichlorobenzidine	13.50	252	251068	32.08	ppb	97
90) Chrysene	13.51	228	957748	51.35	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.70	149	650435	47.82	ppb	99
93) Di-n-octylphthalate	14.30	149	1131030	50.97	ppb	100
94) Benzo[b]fluoranthene	14.53	252	984324	47.50	ppb	97
95) Benzo[k]fluoranthene	14.55	252	1025382	49.62	ppb	98
96) Benzo[a]pyrene	14.80	252	963387	46.91	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.80	276	1063043	47.62	ppb	99
98) Dibenzo[a,h]acridine	15.83	279	208180	13.08	ppb	77
99) Dibenzo[a,h]anthracene	15.83	278	866396	47.82	ppb	99
100) 7,12-Dimethylbenz(a)anthra	14.55	256	411241	48.84	ppb	98
101) Benzo[g,h,i]perylene	16.07	276	898006	45.54	ppb	99
103) Benzaldehyde	2.86	105	214091	47.33	ppb #	100
105) 1,2,4,5-Tetrachlorobenzene	6.37	216	252535	43.54	ppb	99
107) Atrazine	9.74	200	175945	52.67	ppb #	100
109) Benzidine	12.03	184	265523	28.42	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F92525.D MF4329.M Fri Oct 22 07:26:45 2010 GCMS3A

Quantitation Report (QT Reviewed)

Vial: 5

Operator: ninap

Inst : MSF

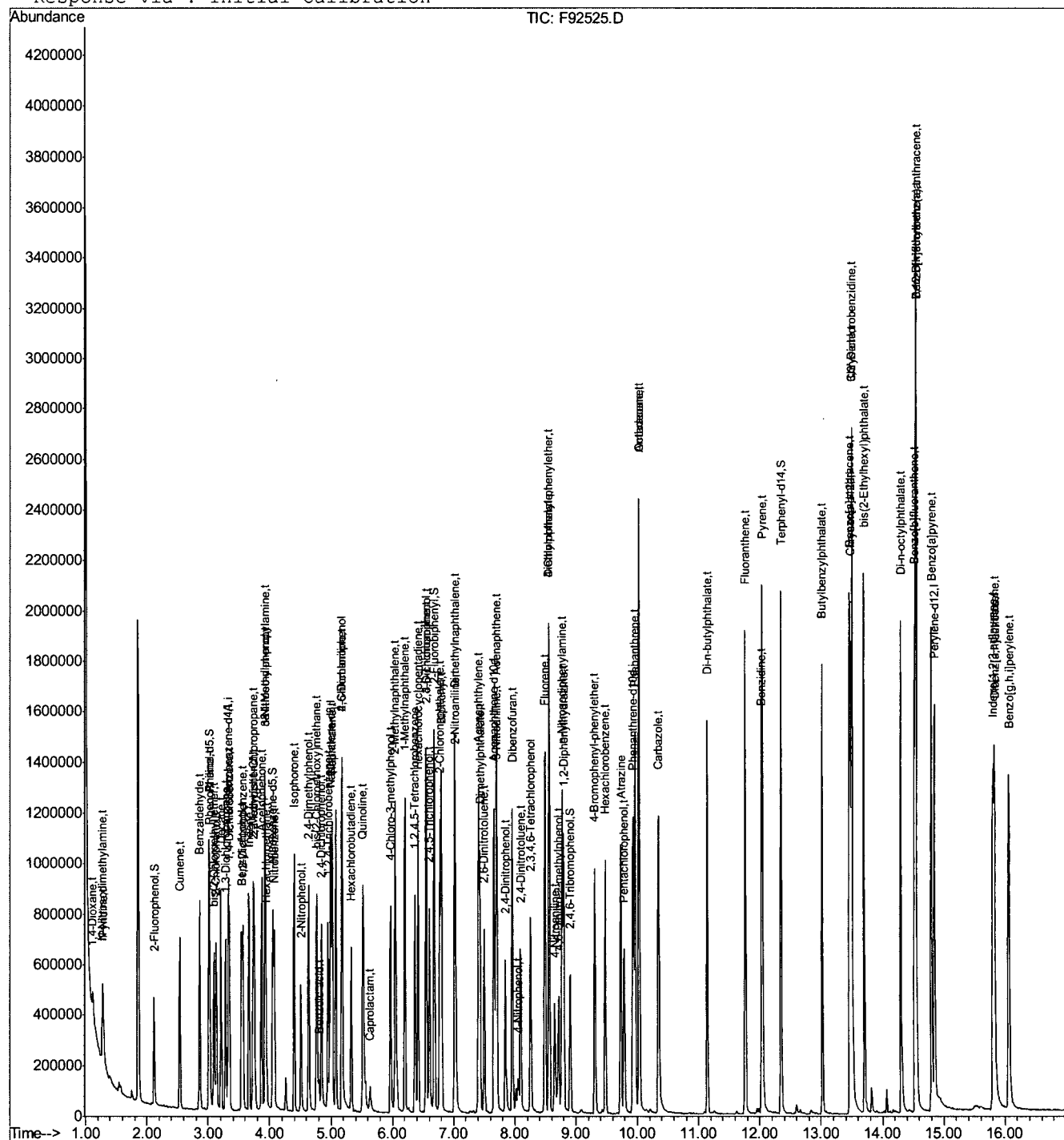
Multiplr: 1.00

Quant Results File: MF4329.RES

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P617.D
 Acq On : 26 Oct 2010 2:19 pm
 Operator : kristis
 Sample : op46332-bs1
 Misc : op46332,e3p29,35.0,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:02:24 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	63800	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	220828	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	115538	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	175035	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	167290	40.00	ppb	0.00
92) Perylene-d12	21.786	264	91850	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.019	152	63800	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	115538	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	167290	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	115538	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.002	112	77118	40.76	ppb	-0.09
Spiked Amount 50.000			Recovery	=	81.52%	
8) Phenol-d5	6.564	99	106139	38.36	ppb	-0.05
Spiked Amount 50.000			Recovery	=	76.72%	
25) Nitrobenzene-d5	8.094	82	108468	45.33	ppb	-0.03
Spiked Amount 50.000			Recovery	=	90.66%	
51) 2-Fluorobiphenyl	11.586	172	194978	46.80	ppb	0.00
Spiked Amount 50.000			Recovery	=	93.60%	
73) 2,4,6-Tribromophenol	14.469	330	32589	49.95	ppb	-0.04
Spiked Amount 50.000			Recovery	=	99.90%	
85) Terphenyl-d14	18.529	244	165022	48.57	ppb	-0.01
Spiked Amount 50.000			Recovery	=	97.14%	
Target Compounds						
2) 1,4-Dioxane	2.665	88	17101	27.01	ppb	Qvalue 92
3) Pyridine	3.098	79	74271	37.28	ppb	98
4) N-Nitrosodimethylamine	3.087	42	41460	38.51	ppb	# 81
6) Indene	7.521	116	116273	37.80	ppb	96
7) Cumene	5.730	105	140669	33.28	ppb	98
9) Phenol	6.585	94	95226	32.40	ppb	93
10) Aniline	6.537	93	125417	43.23	ppb	98
11) bis(2-Chloroethyl)ether	6.666	93	85753	37.98	ppb	94
12) 2-Chlorophenol	6.725	128	83617	38.16	ppb	96
13) Decane	6.810	43	93394	32.83	ppb	98
14) 1,3-Dichlorobenzene	6.949	146	97683	39.51	ppb	98
15) 1,4-Dichlorobenzene	7.045	146	102583	39.29	ppb	99
16) Benzyl alcohol	7.361	108	58891	41.08	ppb	82
17) 1,2-Dichlorobenzene	7.377	146	95900	38.83	ppb	100
18) Acetophenone	7.826	105	120183	42.50	ppb	99
19) 2-Methylphenol	7.634	108	72213	35.04	ppb	97
20) 2,2'-oxybis(1-Chloropr...	7.639	121	26566	40.51	ppb	# 87
21) 3&4-Methylphenol	7.912	108	73343	35.91	ppb	99
22) n-Nitroso-di-n-propyla...	7.901	70	63869	38.90	ppb	93
23) Hexachloroethane	7.917	201	35779	39.56	ppb	94
26) Nitrobenzene	8.126	123	42816	43.26	ppb	95
27) Quinoline	10.116	129	157490	46.71	ppb	97
28) Isophorone	8.575	82	178532	44.77	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P617.D
 Acq On : 26 Oct 2010 2:19 pm
 Operator : kristis
 Sample : op46332-bs1
 Misc : op46332,e3p29,35.0,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:02:24 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) 2-Nitrophenol	8.736	139	42655	37.70	ppb	# 70
30) 2,4-Dimethylphenol	8.885	107	76362	44.54	ppb	96
31) Benzoic acid	9.185	105	40363m	36.81	ppb	
32) bis(2-Chloroethoxy)met...	9.051	93	112600	44.50	ppb	98
33) 2,4-Dichlorophenol	9.212	162	62245m	39.18	ppb	
34) 2,6-Dichlorophenol	9.634	162	65102	40.55	ppb	97
36) 1,2,4-Trichlorobenzene	9.329	180	79774	43.63	ppb	97
38) Naphthalene	9.426	128	257729	42.05	ppb	100
39) 4-Chloroaniline	9.634	127	87687	35.88	ppb	97
40) 2,3-Dichloroaniline	11.437	161	79023	41.82	ppb	100
41) Caprolactam	10.292	55	36137	35.24	ppb	97
42) Hexachlorobutadiene	9.811	225	47201	44.35	ppb	97
43) 4-Chloro-3-methylphenol	10.666	107	65400	42.18	ppb	91
44) 2-Methylnaphthalene	10.784	142	158251	39.77	ppb	97
45) 1-Methylnaphthalene	10.993	142	151765	41.53	ppb	98
46) Dimethylnaphthalene	12.036	156	133135	43.61	ppb	98
48) Hexachlorocyclopentadiene	11.244	237	106515	117.43	ppb	96
49) 2,4,6-Trichlorophenol	11.447	196	45180	42.16	ppb	95
50) 2,4,5-Trichlorophenol	11.538	196	48921	42.70	ppb	91
52) 2-Chloronaphthalene	11.736	162	156371	43.20	ppb	99
53) Biphenyl	11.742	154	194355	43.17	ppb	98
54) 2-Nitroaniline	12.062	65	49651	40.38	ppb	99
55) Dimethylphthalate	12.522	163	163378	44.01	ppb	100
56) Acenaphthylene	12.560	152	234218	41.19	ppb	98
57) 2,6-Dinitrotoluene	12.640	165	36415	45.06	ppb	98
58) 3-Nitroaniline	12.902	138	37281	37.00	ppb	97
59) Acenaphthene	12.929	153	153367	42.61	ppb	97
60) 2,4-Dinitrophenol	13.121	184	26588	85.43	ppb	# 100
61) 4-Nitrophenol	13.378	109	15293	31.56	ppb	86
62) Dibenzofuran	13.255	168	216891	44.39	ppb	100
63) 2,4-Dinitrotoluene	13.416	165	48669	44.83	ppb	99
64) 2,3,4,6-Tetrachlorophenol	13.630	232	36657	41.76	ppb	99
65) Diethylphthalate	13.945	149	179478	44.01	ppb	98
66) Fluorene	13.940	166	180732	46.34	ppb	97
67) 4-Chlorophenyl-phenyle...	13.988	204	77869	45.75	ppb	98
68) 4-Nitroaniline	14.127	138	38513	37.73	ppb	99
70) 4,6-Dinitro-2-methylph...	14.218	198	23266	36.06	ppb	96
71) n-Nitrosodiphenylamine	14.255	169	115947	43.66	ppb	99
72) 1,2-Diphenylhydrazine	14.293	77	203889	40.19	ppb	98
74) 4-Bromophenyl-phenylether	14.945	248	51766	47.74	ppb	98
75) Hexachlorobenzene	15.197	284	63621	47.76	ppb	98
76) Pentachlorophenol	15.593	266	25294	34.81	ppb	96
77) Phenanthrene	15.828	178	220782	44.26	ppb	99
78) Anthracene	15.913	178	223160	44.73	ppb	99
79) Carbazole	16.277	167	204910	42.95	ppb	99
80) Di-n-butylphthalate	17.085	149	282627	41.51	ppb	99
81) Fluoranthene	17.898	202	246971	44.71	ppb	98
82) Octadecane	15.748	57	118580	40.73	ppb	99
84) Pyrene	18.229	202	248286	42.04	ppb	98
86) Butylbenzylphthalate	19.294	149	115643	38.95	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P617.D
Acq On : 26 Oct 2010 2:19 pm
Operator : kristis
Sample : op46332-bs1
Misc : op46332,e3p29,35.0,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:02:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration

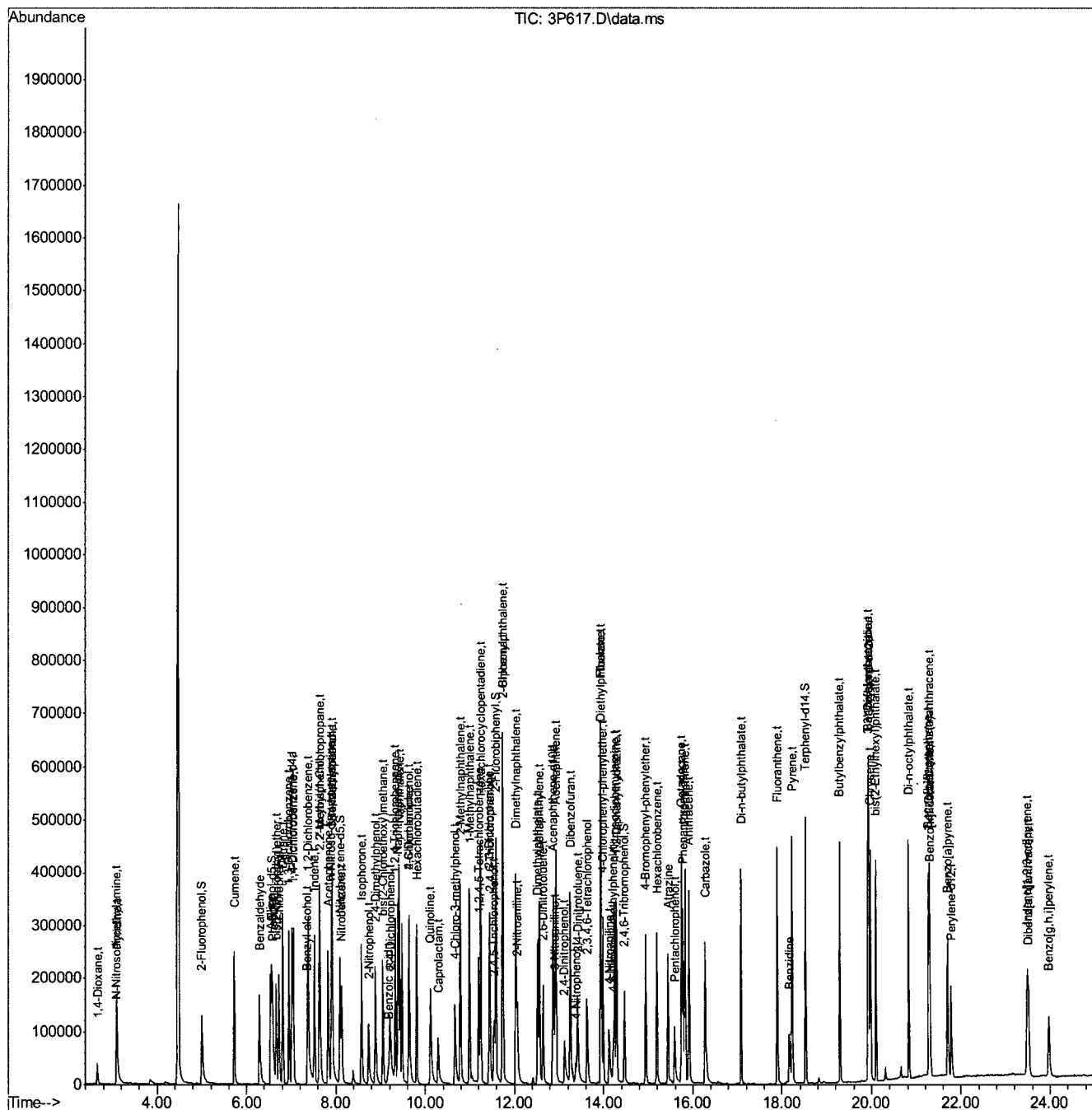
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	19.925	228	199517	42.12	ppb	99
89) 3,3'-Dichlorobenzidine	19.936	252	90930	49.53	ppb	96
90) Chrysene	19.978	228	168538	41.87	ppb	100
91) bis(2-Ethylhexyl)phtha...	20.101	149	127759	37.70	ppb	98
93) Di-n-octylphthalate	20.840	149	220396	41.05	ppb	95
94) Benzo[b]fluoranthene	21.284	252	167075	45.33	ppb	97
95) Benzo[k]fluoranthene	21.316	252	130465	41.84	ppb	99
96) Benzo[a]pyrene	21.711	252	131072	44.37	ppb	96
97) Indeno[1,2,3-cd]pyrene	23.498	276	142286	59.11	ppb	94
99) Dibenz[a,h]anthracene	23.519	278	103958	56.78	ppb	97
100) 7,12-Dimethylbenz(a)an...	21.300	256	65285	42.80	ppb	96
101) Benzo[g,h,i]perylene	23.979	276	103749	56.45	ppb	94
103) Benzaldehyde	6.291	105	65005	56.61	ppb	94
105) Atrazine	15.448	215	20011	48.25	ppb	89
107) Benzidine	18.160	184	75598	39.15	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.201	216	66991	39.15	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P617.D
Acq On : 26 Oct 2010 2:19 pm
Operator : kristis
Sample : op46332-bs1
Misc : op46332,e3p29,35.0,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 15:02:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



M3P27.M Tue Oct 26 15:03:00 2010 RPT1

Page: 4

8.3.2

Manual Integration Approval Summary

Page 1 of 1

Sample Number: OP46332-BS1
Lab FileID: 3P617.D
Injection Time: 10/26/10 14:19

Method: SW846 8270C
Analyst approved: 10/26/10 16:42 Kristi Schollenberger
Supervisor approved: 10/26/10 16:52 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		9.18	Split peak
2,4-Dichlorophenol	120-83-2		9.21	Split peak

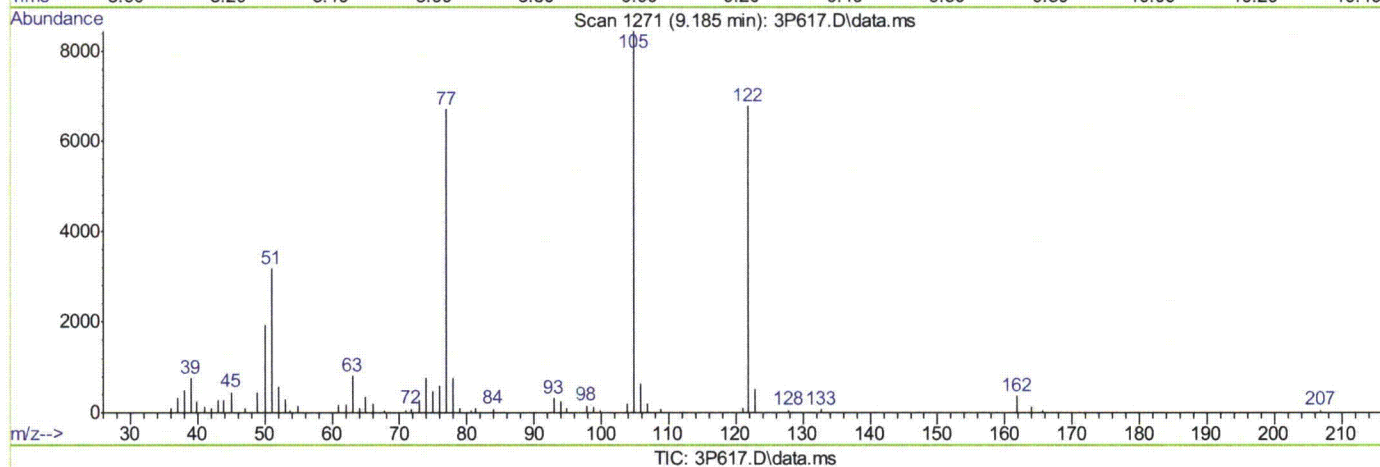
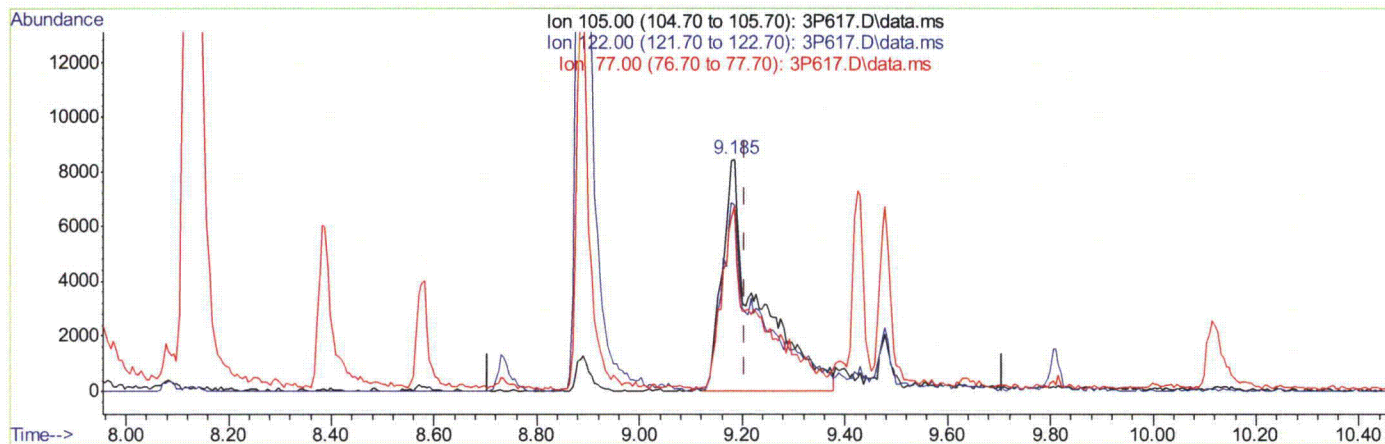
8.3.2.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P617.D
Acq On : 26 Oct 2010 2:19 pm
Operator : kristis
Sample : op46332-bs1
Misc : op46332,e3p29,35.0,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:41:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(31) Benzoic acid (t)

9.185min (-0.021) 36.81ppb m

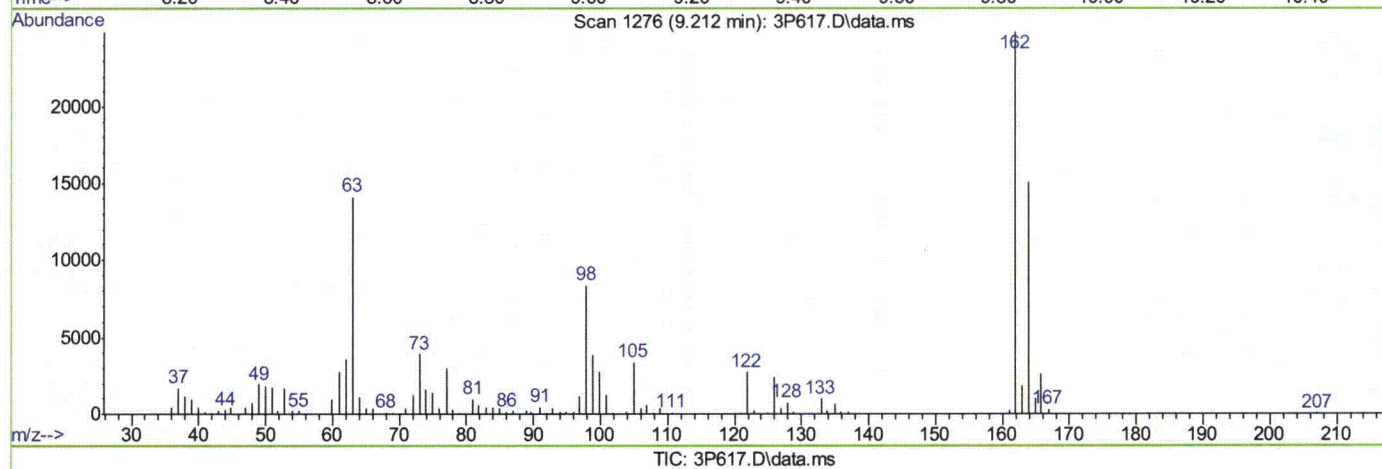
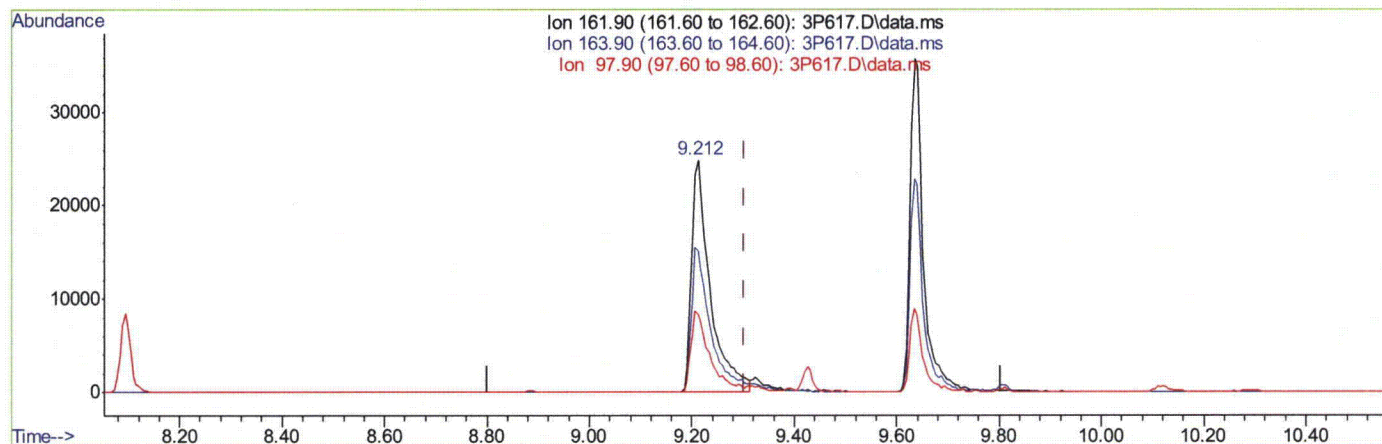
response 40363

Ion	Exp%	Act%
105.00	100	100
122.00	87.50	80.24
77.00	81.70	79.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P617.D
Acq On : 26 Oct 2010 2:19 pm
Operator : kristis
Sample : op46332-bs1
Misc : op46332,e3p29,35.0,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:41:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(33) 2,4-Dichlorophenol (t)

9.212min (-0.091) 39.18ppb m

response 62245

Ion	Exp%	Act%
161.90	100	100
163.90	62.00	60.45
97.90	35.30	33.45
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92527.D

Vial: 7

Acq On : 21 Oct 2010 8:25 pm

Operator: ninap

Sample : op46278-ms

Inst : MSF

Misc : op46278,ef4333,835

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 20:42:06 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	186612	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	652627	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	411592	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	678623	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	739905	40.00	ppb	-0.01
92) Perylene-d12	14.85	264	632387	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	186612	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	411592	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	678623	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	739905	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	2.12	112	201007	33.04	ppb	0.00
Spiked Amount	50.000		Recovery	=	66.08%	
8) Phenol-d5	3.02	99	228980	31.01	ppb	0.00
Spiked Amount	50.000		Recovery	=	62.02%	
25) Nitrobenzene-d5	4.05	82	318644	49.43	ppb	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
51) 2-Fluorobiphenyl	6.69	172	684539	46.54	ppb	-0.01
Spiked Amount	50.000		Recovery	=	93.08%	
73) 2,4,6-Tribromophenol	8.91	330	79381	48.55	ppb	-0.01
Spiked Amount	50.000		Recovery	=	97.10%	
85) Terphenyl-d14	12.35	244	744778	49.57	ppb	-0.01
Spiked Amount	50.000		Recovery	=	99.14%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	88328	28.70	ppb	79
3) Pyridine	1.28	79	176097	24.10	ppb	99
4) N-Nitrosodimethylamine	1.27	74	132013	29.96	ppb	96
6) Indene	3.66	116	333429	36.61	ppb	99
7) Cumene	2.54	105	351064	28.18	ppb	99
9) Phenol	3.03	94	245843	30.74	ppb	81
10) Aniline	3.02	93	341564	39.03	ppb	85
11) bis(2-Chloroethyl)ether	3.10	93	274183	41.53	ppb	100
12) 2-Chlorophenol	3.13	128	241925	40.36	ppb	99
13) Decane	3.21	43	219310	30.53	ppb	96
14) 1,3-Dichlorobenzene	3.28	146	234985	31.37	ppb	99
15) 1,4-Dichlorobenzene	3.35	146	229930	31.72	ppb	98
16) Benzyl alcohol	3.54	108	183291	48.51	ppb	99
17) 1,2-Dichlorobenzene	3.57	146	230836	33.47	ppb	98
18) Acetophenone	3.87	105	378997	47.80	ppb	97
19) 2-Methylphenol	3.73	108	228593	44.24	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.75	121	84664	43.69	ppb	99
21) 3&4-Methylphenol	3.92	108	221622	41.90	ppb	100
22) n-Nitroso-di-n-propylamine	3.92	70	187483	43.87	ppb	97
23) Hexachloroethane	3.94	201	73385	28.50	ppb	96
26) Nitrobenzene	4.08	123	136070	45.77	ppb	99
27) Quinoline	5.53	129	578323	51.57	ppb	99
28) Isophorone	4.40	82	582857	48.55	ppb	98
29) 2-Nitrophenol	4.51	139	130189	45.86	ppb	# 77

(#)=qualifier out of range (m)=manual integration

F92527.D MF4329.M

Fri Oct 22 07:28:56 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92527.D

Vial: 7

Acq On : 21 Oct 2010 8:25 pm

Operator: ninap

Sample : op46278-ms

Inst : MSF

Misc : op46278,ef4333,835

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 20:42:06 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

8.4.1
8

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	259142	50.62	ppb	98
31) Benzoic acid	4.83	105	139289	36.55	ppb	96
32) bis(2-Chloroethoxy)methane	4.77	93	358556	49.54	ppb	99
33) 2,4-Dichlorophenol	4.85	162	206430	40.16	ppb	99
34) 2,6-Dichlorophenol	5.18	162	197522	39.18	ppb	98
36) 1,2,4-Trichlorobenzene	4.95	180	220332	35.75	ppb	98
38) Naphthalene	5.02	128	697387	39.03	ppb	99
39) 4-Chloroaniline	5.18	127	274650	37.93	ppb	98
40) 2,3-Dichloroaniline	6.55	161	274255	43.01	ppb	100
41) Caprolactam	5.64	55	58104	17.53	ppb	97
42) Hexachlorobutadiene	5.33	225	117245	32.78	ppb	98
43) 4-Chloro-3-methylphenol	5.97	107	234393	47.31	ppb	90
44) 2-Methylnaphthalene	6.05	142	487940	38.05	ppb	99
45) 1-Methylnaphthalene	6.20	142	501766	41.72	ppb	100
46) Dimethylnaphthalene	7.02	156	470496	43.38	ppb	100
48) Hexachlorocyclopentadiene	6.42	237	274193	110.15	ppb	98
49) 2,4,6-Trichlorophenol	6.56	196	156225	40.25	ppb	99
50) 2,4,5-Trichlorophenol	6.61	196	181443	41.75	ppb	99
52) 2-Chloronaphthalene	6.78	162	522210	41.80	ppb	99
53) Biphenyl	6.80	154	623882	41.94	ppb	99
54) 2-Nitroaniline	7.03	65	161695	48.71	ppb	97
55) Dimethylphthalate	7.43	163	607068	43.69	ppb	99
56) Acenaphthylene	7.41	152	840184	42.98	ppb	99
57) 2,6-Dinitrotoluene	7.50	165	138621	51.27	ppb	98
58) 3-Nitroaniline	7.69	138	111817	37.32	ppb	99
59) Acenaphthene	7.71	153	520202	51.95	ppb	99
60) 2,4-Dinitrophenol	7.85	184	143877	95.31	ppb	96
61) 4-Nitrophenol	8.06	109	44172	31.09	ppb	95
62) Dibenzofuran	7.96	168	795300	46.00	ppb	99
63) 2,4-Dinitrotoluene	8.10	165	187454	51.27	ppb	97
64) 2,3,4,6-Tetrachlorophenol	8.26	232	138097	38.15	ppb	# 16
65) Diethylphthalate	8.56	149	575631	45.68	ppb	99
66) Fluorene	8.50	166	656725	46.02	ppb	97
67) 4-Chlorophenyl-phenylether	8.57	204	296634	44.50	ppb	98
68) 4-Nitroaniline	8.66	138	152235	45.01	ppb	98
70) 4,6-Dinitro-2-methylphenol	8.72	198	98592	43.82	ppb	# 98
71) n-Nitrosodiphenylamine	8.77	169	459421	48.43	ppb	99
72) 1,2-Diphenylhydrazine	8.80	77	633714	47.55	ppb	99
74) 4-Bromophenyl-phenylether	9.31	248	194619	46.99	ppb	96
75) Hexachlorobenzene	9.48	284	192462	46.97	ppb	98
76) Pentachlorophenol	9.79	266	113363	47.11	ppb	98
77) Phenanthrene	9.97	178	925541	53.50	ppb	99
78) Anthracene	10.04	178	895182	54.34	ppb	100
79) Carbazole	10.35	167	873973	46.97	ppb	99
80) Di-n-butylphthalate	11.15	149	1056228	48.68	ppb	99
81) Fluoranthene	11.77	202	1026676	45.25	ppb	99
82) Octadecane	10.03	57	383787	47.10	ppb	98
84) Pyrene	12.04	202	1076875	45.77	ppb	99
86) Butylbenzylphthalate	13.03	149	469699	51.64	ppb	94

(#)= qualifier out of range (m) = manual integration

F92527.D MF4329.M

Fri Oct 22 07:28:56 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92527.D Vial: 7
Acq On : 21 Oct 2010 8:25 pm Operator: ninap
Sample : op46278-ms Inst : MSF
Misc : op46278,ef4333,835 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 20:42:06 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration
DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) Benzo[a]anthracene	13.46	228	991048	46.83	ppb	100
89) 3,3'-Dichlorobenzidine	13.51	252	138245	19.06	ppb	98
90) Chrysene	13.51	228	931539	54.00	ppb	100
91) bis(2-Ethylhexyl)phthalate	13.70	149	646882	51.33	ppb	99
93) Di-n-octylphthalate	14.30	149	1143500	56.32	ppb	100
94) Benzo[b]fluoranthene	14.53	252	950778	50.14	ppb	97
95) Benzo[k]fluoranthene	14.55	252	971222	52.01	ppb	98
96) Benzo[a]pyrene	14.80	252	929395	49.46	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.80	276	1047363	51.28	ppb	97
99) Dibenz[a,h]anthracene	15.83	278	852221	51.40	ppb	100
100) 7,12-Dimethylbenz(a)anthra	14.55	256	390075	50.63	ppb	97
101) Benzo[g,h,i]perylene	16.07	276	875413	48.52	ppb	99
103) Benzaldehyde	2.86	105	201146	46.10	ppb #	100
105) 1,2,4,5-Tetrachlorobenzene	6.37	216	264903	46.34	ppb	98
107) Atrazine	9.75	200	166596	52.29	ppb #	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F92527.D MF4329.M Fri Oct 22 07:28:56 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92527.D

Vial: 7

Acq On : 21 Oct 2010 8:25 pm

Operator: ninap

Sample : op46278-ms

Inst :

Misc : op46278,ef4333,835

Multiplr: 1.00

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MS Integration Params: RTEINT.P
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Quant Time: Oct 22 7:28 2010

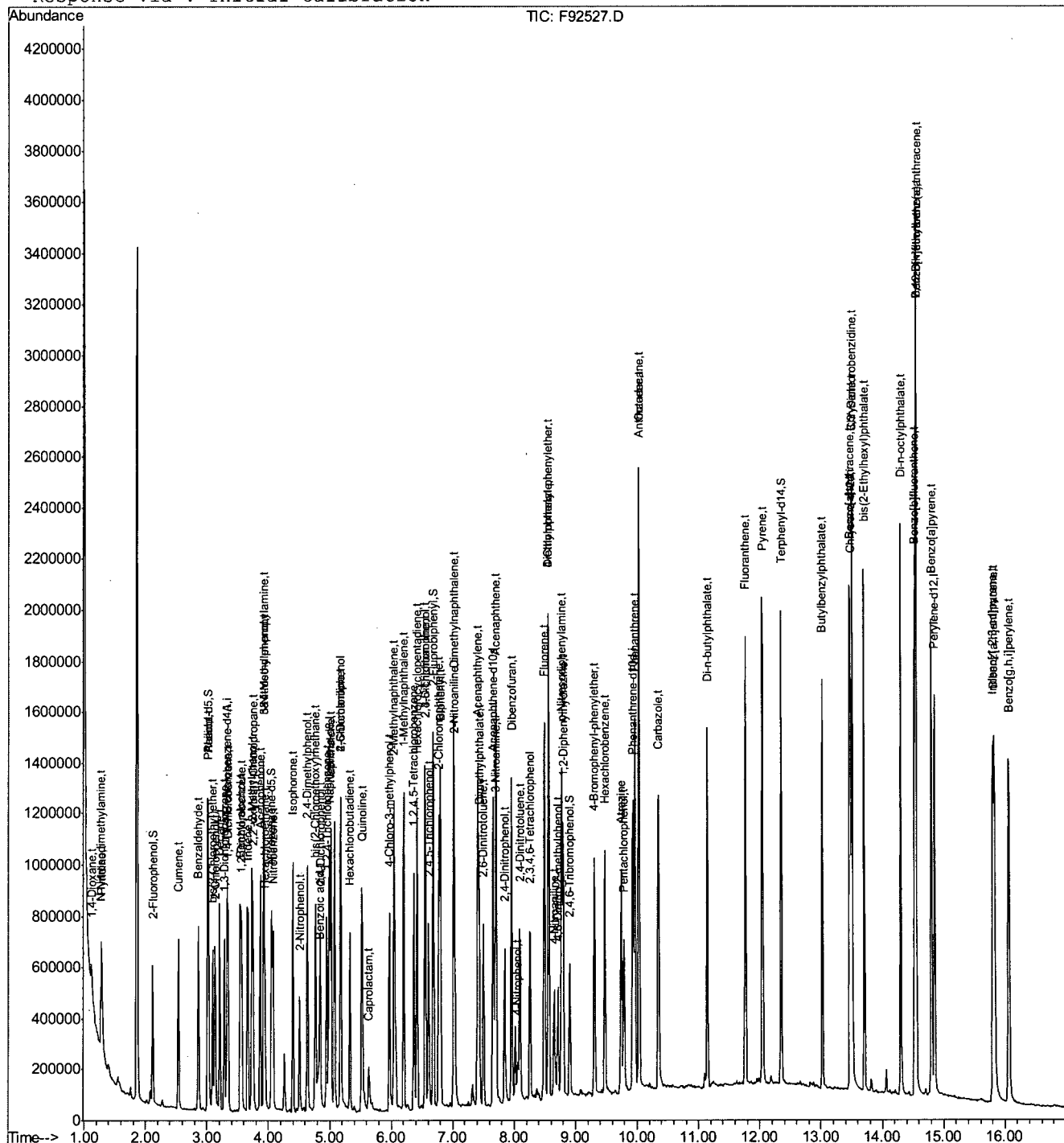
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



F92527.D MF4329.M

Fri Oct 22 07:28:58 2010

GCMS3A

Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92528.D

Vial: 8

Acq On : 21 Oct 2010 8:49 pm

Operator: ninap

Sample : op46278-msd

Inst : MSF

Misc : op46278,ef4333,835

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 21:06:56 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	183255	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	642610	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	407434	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	674976	40.00	ppb	-0.01
83) Chrysene-d12	13.48	240	744857	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	643064	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	183255	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	407434	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	674976	40.00	ppb	-0.01
108) Chrysene-d12a	13.48	240	744857	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.12	112	200893	33.62	ppb	0.00
Spiked Amount	50.000		Recovery	=	67.24%	
8) Phenol-d5	3.02	99	230271	31.76	ppb	0.00
Spiked Amount	50.000		Recovery	=	63.52%	
25) Nitrobenzene-d5	4.05	82	310030	48.84	ppb	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
51) 2-Fluorobiphenyl	6.69	172	657802	45.18	ppb	-0.01
Spiked Amount	50.000		Recovery	=	90.36%	
73) 2,4,6-Tribromophenol	8.91	330	76610	47.11	ppb	-0.01
Spiked Amount	50.000		Recovery	=	94.22%	
85) Terphenyl-d14	12.35	244	719439	47.56	ppb	-0.01
Spiked Amount	50.000		Recovery	=	95.12%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	70761	23.41	ppb	78
3) Pyridine	1.28	79	188697	26.30	ppb	97
4) N-Nitrosodimethylamine	1.27	74	142635	32.96	ppb	95
6) Indene	3.66	116	323972	36.22	ppb	99
7) Cumene	2.54	105	348075	28.45	ppb	99
9) Phenol	3.03	94	248684	31.66	ppb	85
10) Aniline	3.02	93	333077	38.76	ppb	85
11) bis(2-Chloroethyl)ether	3.10	93	266927	41.17	ppb	99
12) 2-Chlorophenol	3.13	128	235778	40.06	ppb	99
13) Decane	3.21	43	212123	30.07	ppb	95
14) 1,3-Dichlorobenzene	3.28	146	225097	30.60	ppb	98
15) 1,4-Dichlorobenzene	3.35	146	221780	31.15	ppb	98
16) Benzyl alcohol	3.54	108	177600	47.87	ppb	98
17) 1,2-Dichlorobenzene	3.57	146	221752	32.74	ppb	98
18) Acetophenone	3.87	105	363724	46.72	ppb	99
19) 2-Methylphenol	3.73	108	220026	43.36	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.75	121	79791	41.93	ppb	99
21) 3&4-Methylphenol	3.92	108	219736	42.33	ppb	97
22) n-Nitroso-di-n-propylamine	3.92	70	182994	43.61	ppb	98
23) Hexachloroethane	3.94	201	72439	28.64	ppb	96
26) Nitrobenzene	4.08	123	131697	44.99	ppb	99
27) Quinoline	5.53	129	549809	49.79	ppb	99
28) Isophorone	4.40	82	555784	47.02	ppb	99
29) 2-Nitrophenol	4.51	139	124672	44.60	ppb	76

(#)=qualifier out of range (m)=manual integration

F92528.D MF4329.M

Fri Oct 22 07:29:26 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92528.D

Vial: 8

Acq On : 21 Oct 2010 8:49 pm

Operator: ninap

Sample : op46278-msd

Inst : MSF

Misc : op46278,ef4333,835

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 21:06:56 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

8.4.2
8

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	249083	49.41	ppb	97
31) Benzoic acid	4.83	105	135738	36.21	ppb	98
32) bis(2-Chloroethoxy)methane	4.77	93	338636	47.51	ppb	99
33) 2,4-Dichlorophenol	4.85	162	198501	39.22	ppb	98
34) 2,6-Dichlorophenol	5.18	162	192027	38.69	ppb	99
36) 1,2,4-Trichlorobenzene	4.95	180	209556	34.54	ppb	99
38) Naphthalene	5.02	128	662786	37.68	ppb	99
39) 4-Chloroaniline	5.18	127	265297	37.21	ppb	99
40) 2,3-Dichloroaniline	6.55	161	267393	42.59	ppb	99
41) Caprolactam	5.63	55	62355	19.10	ppb	98
42) Hexachlorobutadiene	5.33	225	110498	31.37	ppb	98
43) 4-Chloro-3-methylphenol	5.97	107	227771	46.69	ppb	85
44) 2-Methylnaphthalene	6.05	142	480867	38.08	ppb	100
45) 1-Methylnaphthalene	6.20	142	490405	41.41	ppb	99
46) Dimethylnaphthalene	7.02	156	453963	42.51	ppb	99
48) Hexachlorocyclopentadiene	6.42	237	263192	106.81	ppb	99
49) 2,4,6-Trichlorophenol	6.56	196	149810	38.99	ppb	99
50) 2,4,5-Trichlorophenol	6.61	196	174216	40.50	ppb	99
52) 2-Chloronaphthalene	6.78	162	499068	40.35	ppb	99
53) Biphenyl	6.80	154	612179	41.57	ppb	99
54) 2-Nitroaniline	7.04	65	155088	47.19	ppb	97
55) Dimethylphthalate	7.43	163	581925	42.31	ppb	100
56) Acenaphthylene	7.41	152	790623	40.85	ppb	99
57) 2,6-Dinitrotoluene	7.50	165	133677	49.95	ppb	96
58) 3-Nitroaniline	7.69	138	108353	36.53	ppb	100
59) Acenaphthene	7.71	153	497840	50.14	ppb	100
60) 2,4-Dinitrophenol	7.84	184	137942	92.61	ppb	91
61) 4-Nitrophenol	8.05	109	39456	28.06	ppb	95
62) Dibenzofuran	7.96	168	753829	44.05	ppb	99
63) 2,4-Dinitrotoluene	8.10	165	180628	49.91	ppb	99
64) 2,3,4,6-Tetrachlorophenol	8.26	232	132950	37.10	ppb	# 18
65) Diethylphthalate	8.56	149	556326	44.60	ppb	99
66) Fluorene	8.50	166	631905	44.73	ppb	99
67) 4-Chlorophenyl-phenylether	8.56	204	287889	43.63	ppb	98
68) 4-Nitroaniline	8.65	138	145152	43.35	ppb	97
70) 4,6-Dinitro-2-methylphenol	8.72	198	96234	43.07	ppb	96
71) n-Nitrosodiphenylamine	8.77	169	438964	46.52	ppb	100
72) 1,2-Diphenylhydrazine	8.80	77	611498	46.13	ppb	99
74) 4-Bromophenyl-phenylether	9.31	248	187667	45.56	ppb	99
75) Hexachlorobenzene	9.48	284	188689	46.30	ppb	99
76) Pentachlorophenol	9.79	266	105943	44.27	ppb	98
77) Phenanthrene	9.97	178	872498	50.63	ppb	100
78) Anthracene	10.03	178	854744	52.04	ppb	99
79) Carbazole	10.35	167	847707	45.80	ppb	100
80) Di-n-butylphthalate	11.15	149	1020984	47.31	ppb	100
81) Fluoranthene	11.77	202	1028454	45.57	ppb	100
82) Octadecane	10.03	57	359646	44.37	ppb	98
84) Pyrene	12.04	202	1056936	44.63	ppb	99
86) Butylbenzylphthalate	13.02	149	444471	48.55	ppb	97

(#)=qualifier out of range (m)=manual integration

F92528.D MF4329.M

Fri Oct 22 07:29:27 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92528.D Vial: 8
Acq On : 21 Oct 2010 8:49 pm Operator: ninap
Sample : op46278-msd Inst : MSF
Misc : op46278,ef4333,835 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 21:06:56 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration
DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) Benzo[a]anthracene	13.46	228	941466	44.19	ppb	99
89) 3,3'-Dichlorobenzidine	13.51	252	141880	19.43	ppb	97
90) Chrysene	13.51	228	907415	52.19	ppb	100
91) bis(2-Ethylhexyl)phthalate	13.71	149	629259	49.60	ppb	98
93) Di-n-octylphthalate	14.30	149	1110394	53.78	ppb	99
94) Benzo[b]fluoranthene	14.53	252	970374	50.33	ppb	98
95) Benzo[k]fluoranthene	14.55	252	925286	47.62	ppb	99
96) Benzo[a]pyrene	14.80	252	916112	47.94	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.80	276	1004174	48.35	ppb	98
99) Dibenz[a,h]anthracene	15.83	278	835873	49.58	ppb	99
100) 7,12-Dimethylbenz(a)anthra	14.55	256	392149	50.05	ppb	97
101) Benzo[g,h,i]perylene	16.07	276	858869	46.81	ppb	99
103) Benzaldehyde	2.86	105	190093	44.36	ppb #	100
105) 1,2,4,5-Tetrachlorobenzene	6.37	216	252868	44.68	ppb	98
107) Atrazine	9.75	200	164039	51.77	ppb #	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F92528.D MF4329.M Fri Oct 22 07:29:27 2010 GCMS3A

Quantitation Report (QT Reviewed)

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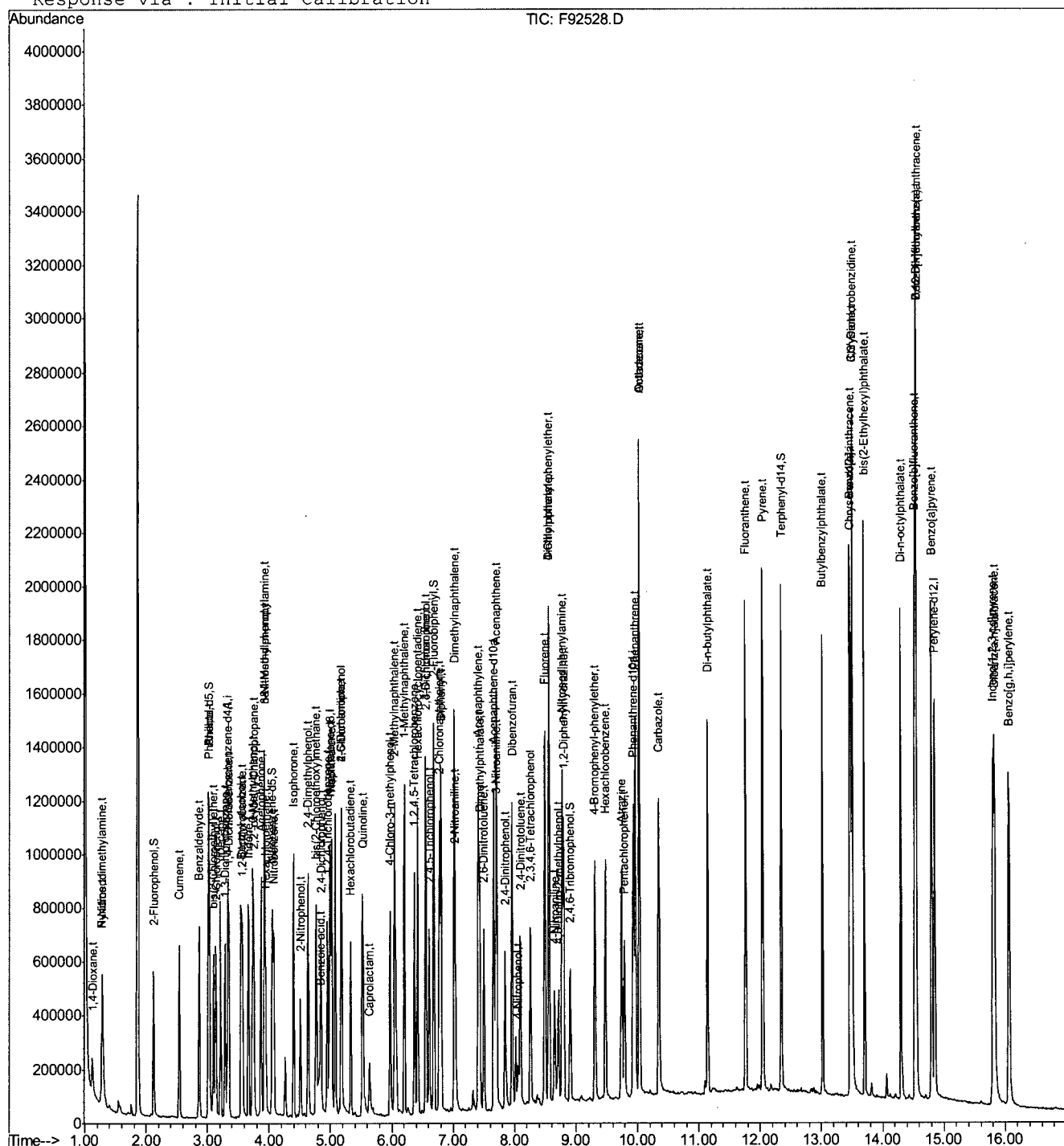
Data File   : C:\MSDCHEM\1\DATA\EF4333\F92528.D
Acq On      : 21 Oct 2010    8:49 pm
Sample      : op46278-msd
Misc        : op46278,ef4333,835
MS Integration Params: RTEINT.P
Quant Time  : Oct 22  7:29 2010

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Vial: 8
Operator: ninap
Inst : MSF
Multiplr: 1.00

Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration



8.4.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P706.D
 Acq On : 1 Nov 2010 5:17 pm
 Operator : kristis
 Sample : op46332-ms
 Misc : op46332,e3p33,35.0,,,1,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 02 11:23:56 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.992	152	94888	40.00	ppb	-0.04
24) Naphthalene-d8	9.367	136	339370	40.00	ppb	-0.03
47) Acenaphthene-d10	12.849	164	190023	40.00	ppb	-0.03
69) Phenanthrene-d10	15.764	188	290378	40.00	ppb	-0.03
83) Chrysene-d12	19.941	240	268456	40.00	ppb	-0.01
92) Perylene-d12	21.776	264	153889	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.992	152	94888	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.849	164	190023	40.00	ppb	-0.03
106) Chrysene-d12a	19.941	240	268456	40.00	ppb	-0.01
110) Acenaphthene-d10b	12.849	164	190023	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	4.986	112	80247	28.52	ppb	-0.10
Spiked Amount 50.000			Recovery =	57.04%		
8) Phenol-d5	6.548	99	106822	25.96	ppb	-0.07
Spiked Amount 50.000			Recovery =	51.92%		
25) Nitrobenzene-d5	8.073	82	107586	29.26	ppb	-0.05
Spiked Amount 50.000			Recovery =	58.52%		
51) 2-Fluorobiphenyl	11.560	172	227790	33.24	ppb	-0.03
Spiked Amount 50.000			Recovery =	66.48%		
73) 2,4,6-Tribromophenol	14.453	330	41555	38.39	ppb	-0.06
Spiked Amount 50.000			Recovery =	76.78%		
85) Terphenyl-d14	18.513	244	212198	38.92	ppb	-0.03
Spiked Amount 50.000			Recovery =	77.84%		
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.644	88	15014	15.95	ppb	99
3) Pyridine	3.077	79	62534	21.10	ppb	99
4) N-Nitrosodimethylamine	3.066	42	28902	18.05	ppb	# 64
6) Indene	7.495	116	116289	25.42	ppb	98
7) Cumene	5.698	105	128094	20.38	ppb	99
9) Phenol	6.570	94	108982	24.93	ppb	97
10) Aniline	6.516	93	108407	25.13	ppb	96
11) bis(2-Chloroethyl)ether	6.639	93	82551	24.59	ppb	95
12) 2-Chlorophenol	6.709	128	89129	27.35	ppb	96
13) Decane	6.784	43	76343	18.04	ppb	89
14) 1,3-Dichlorobenzene	6.928	146	102074	27.76	ppb	99
15) 1,4-Dichlorobenzene	7.019	146	105891	27.27	ppb	99
16) Benzyl alcohol	7.409	108	57641m	27.58	ppb	
17) 1,2-Dichlorobenzene	7.356	146	102270	27.84	ppb	100
18) Acetophenone	7.805	105	122057	29.02	ppb	97
19) 2-Methylphenol	7.618	108	79058	25.79	ppb	98
20) 2,2'-oxybis(1-Chloropr...	7.607	121	28511	29.23	ppb	# 76
21) 3&4-Methylphenol	7.901	108	77129	25.39	ppb	89
22) n-Nitroso-di-n-propyla...	7.875	70	61905	25.35	ppb	88
23) Hexachloroethane	7.891	201	39960	29.70	ppb	87
26) Nitrobenzene	8.105	123	46429	30.53	ppb	87
27) Quinoline	10.094	129	170819	32.97	ppb	97
28) Isophorone	8.549	82	178663	29.15	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P706.D
 Acq On : 1 Nov 2010 5:17 pm
 Operator : kristis
 Sample : op46332-ms
 Misc : op46332,e3p33,35.0,,,1,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 02 11:23:56 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.714	139	49163	28.28	ppb	# 63
30) 2,4-Dimethylphenol	8.875	107	80055	30.38	ppb	99
31) Benzoic acid	9.164	105	54211	32.17	ppb	95
32) bis(2-Chloroethoxy)met...	9.030	93	115226	29.63	ppb	97
33) 2,4-Dichlorophenol	9.201	162	74367	30.46	ppb	96
34) 2,6-Dichlorophenol	9.618	162	72463	29.37	ppb	99
36) 1,2,4-Trichlorobenzene	9.308	180	88401	31.46	ppb	96
38) Naphthalene	9.404	128	273698	29.06	ppb	99
39) 4-Chloroaniline	9.618	127	91452	24.35	ppb	94
40) 2,3-Dichloroaniline	11.415	161	87592	30.17	ppb	99
41) Caprolactam	10.260	55	35704	22.66	ppb	94
42) Hexachlorobutadiene	9.784	225	57488	35.15	ppb	98
43) 4-Chloro-3-methylphenol	10.661	107	74000	31.06	ppb	96
44) 2-Methylnaphthalene	10.763	142	175940	28.77	ppb	96
45) 1-Methylnaphthalene	10.966	142	161890	28.82	ppb	99
46) Dimethylnaphthalene	12.014	156	148248	31.59	ppb	99
48) Hexachlorocyclopentadiene	11.218	237	104609	73.14	ppb	98
49) 2,4,6-Trichlorophenol	11.431	196	55401	31.43	ppb	98
50) 2,4,5-Trichlorophenol	11.533	196	58235	30.91	ppb	95
52) 2-Chloronaphthalene	11.710	162	177552	29.82	ppb	98
53) Biphenyl	11.720	154	207135	27.97	ppb	98
54) 2-Nitroaniline	12.047	65	49690	24.57	ppb	83
55) Dimethylphthalate	12.496	163	204104	33.43	ppb	99
56) Acenaphthylene	12.533	152	262394	28.06	ppb	99
57) 2,6-Dinitrotoluene	12.619	165	43971	33.08	ppb	87
58) 3-Nitroaniline	12.886	138	44780	27.02	ppb	97
59) Acenaphthene	12.908	153	171208	28.92	ppb	95
60) 2,4-Dinitrophenol	13.111	184	32106	67.10	ppb	# 94
61) 4-Nitrophenol	13.394	109	12524	15.71	ppb	92
62) Dibenzofuran	13.234	168	246066	30.62	ppb	97
63) 2,4-Dinitrotoluene	13.405	165	58879	32.98	ppb	86
64) 2,3,4,6-Tetrachlorophenol	13.619	232	42646	29.54	ppb	95
65) Diethylphthalate	13.919	149	206567	30.80	ppb	99
66) Fluorene	13.919	166	205429	32.03	ppb	99
67) 4-Chlorophenyl-phenyle...	13.967	204	95767	34.21	ppb	98
68) 4-Nitroaniline	14.117	138	42112	25.08	ppb	95
70) 4,6-Dinitro-2-methylph...	14.202	198	26614	26.58	ppb	96
71) n-Nitrosodiphenylamine	14.234	169	137415	31.19	ppb	95
72) 1,2-Diphenylhydrazine	14.272	77	199995	23.76	ppb	90
74) 4-Bromophenyl-phenylether	14.924	248	63001	35.02	ppb	95
75) Hexachlorobenzene	15.176	284	77324	34.99	ppb	97
76) Pentachlorophenol	15.577	266	24096	23.27	ppb	98
77) Phenanthrene	15.807	178	260695	31.51	ppb	99
78) Anthracene	15.898	178	260693	31.49	ppb	99
79) Carbazole	16.267	167	240372	30.37	ppb	98
80) Di-n-butylphthalate	17.064	149	323354	28.63	ppb	99
81) Fluoranthene	17.882	202	285775	31.18	ppb	96
82) Octadecane	15.726	57	117205	24.27	ppb	92
84) Pyrene	18.214	202	293490	30.97	ppb	99
86) Butylbenzylphthalate	19.283	149	132429	27.79	ppb	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P706.D
Acq On : 1 Nov 2010 5:17 pm
Operator : kristis
Sample : op46332-ms
Misc : op46332,e3p33,35.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 02 11:23:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration

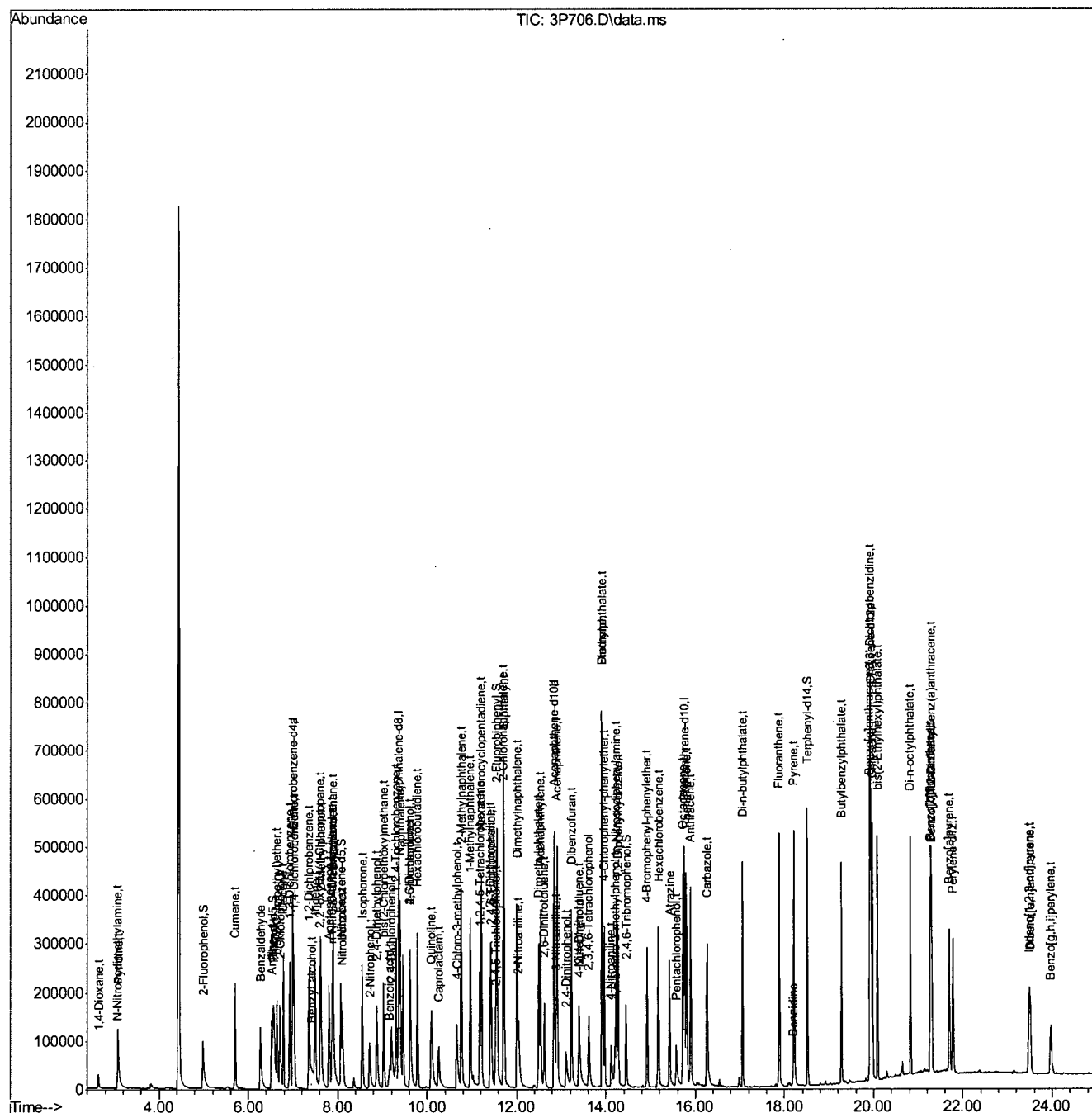
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	19.914	228	237221	31.21	ppb	97
89) 3,3'-Dichlorobenzidine	19.930	252	102586	34.82	ppb	95
90) Chrysene	19.973	228	216806	33.57	ppb	96
91) bis(2-Ethylhexyl)phtha...	20.086	149	168226	30.93	ppb	94
93) Di-n-octylphthalate	20.829	149	259699	28.87	ppb	91
94) Benzo[b]fluoranthene	21.273	252	178581	28.92	ppb	94
95) Benzo[k]fluoranthene	21.305	252	168952	32.34	ppb	96
96) Benzo[a]pyrene	21.701	252	145052	29.31	ppb	96
97) Indeno[1,2,3-cd]pyrene	23.487	276	130379	32.33	ppb	86
99) Dibenz[a,h]anthracene	23.514	278	104845	34.18	ppb	90
100) 7,12-Dimethylbenz(a)an...	21.289	256	80750	32.38	ppb	94
101) Benzo[g,h,i]perylene	23.974	276	98239	31.91	ppb	87
103) Benzaldehyde	6.270	105	62181	36.41	ppb	96
105) Atrazine	15.427	215	24819	36.39	ppb	97
107) Benzidine	18.187	184	9265	2.99	ppb	96
111) 1,2,4,5-Tetrachloroben...	11.180	216	77779	27.64	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\33\  
Data File  : 3P706.D  
Acq On     : 1 Nov 2010    5:17 pm  
Operator   : kristis  
Sample     : op46332-ms  
Misc       : op46332,e3p33,35.0,,,1,1  
ALS Vial   : 15    Sample Multiplier: 1
```

Quant Time: Nov 02 11:23:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



8.4.3

Manual Integration Approval Summary

Page 1 of 1

Sample Number: OP46332-MS **Method:** SW846 8270C
Lab FileID: 3P706.D **Analyst approved:** 11/04/10 11:17 Kristi Schollenberger
Injection Time: 11/01/10 17:17 **Supervisor approved:** 11/08/10 18:36 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzyl Alcohol	100-51-6		7.41	Split peak

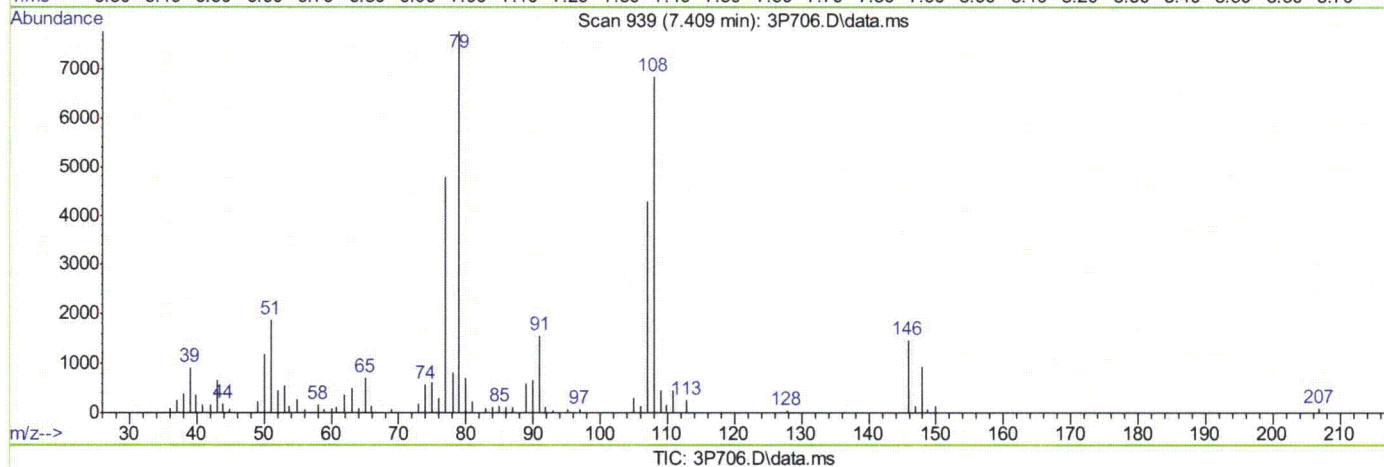
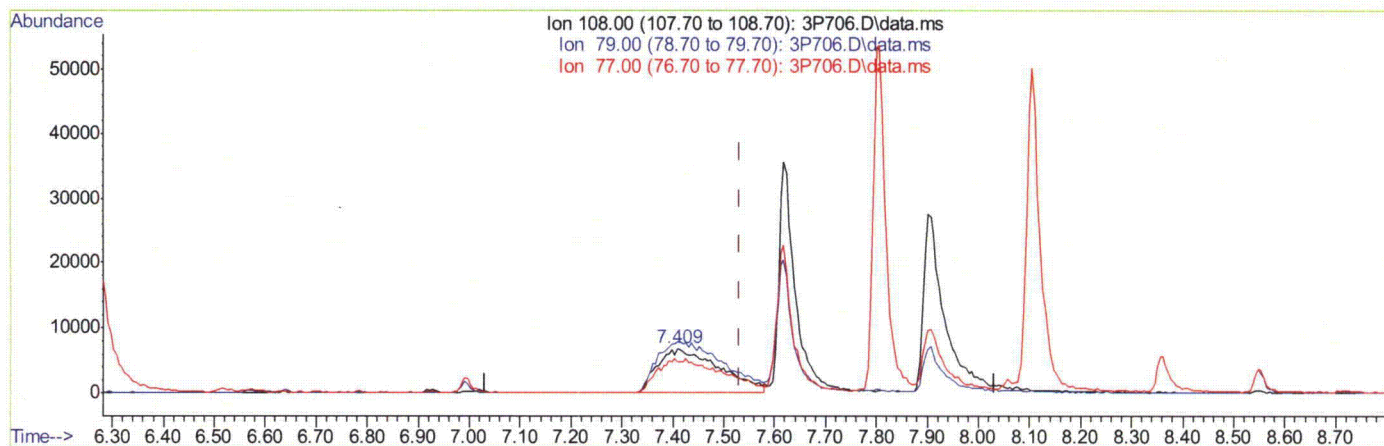
8.4.3.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P706.D
Acq On : 1 Nov 2010 5:17 pm
Operator : kristis
Sample : op46332-ms
Misc : op46332,e3p33,35.0,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 01 17:40:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(16) Benzyl alcohol (t)

7.409min (-0.123) 27.58ppb m

response 57641

Ion	Exp%	Act%
108.00	100	100
79.00	141.20	113.66
77.00	93.20	69.91
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P707.D
 Acq On : 1 Nov 2010 5:47 pm
 Operator : kristis
 Sample : op46332-msd
 Misc : op46332,e3p33,35.0,,,1,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 02 11:45:09 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.992	152	89816	40.00	ppb	-0.04
24) Naphthalene-d8	9.367	136	321918	40.00	ppb	-0.03
47) Acenaphthene-d10	12.843	164	190901	40.00	ppb	-0.03
69) Phenanthrene-d10	15.764	188	296757	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	295134	40.00	ppb	-0.02
92) Perylene-d12	21.781	264	186564	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.992	152	89816	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.843	164	190901	40.00	ppb	-0.03
106) Chrysene-d12a	19.936	240	295134	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.843	164	190901	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.008	112	18793	7.06	ppb	-0.08
Spiked Amount 50.000			Recovery =	14.12%		
8) Phenol-d5	6.569	99	25946	6.66	ppb	-0.05
Spiked Amount 50.000			Recovery =	13.32%		
25) Nitrobenzene-d5	8.083	82	25254	7.24	ppb	-0.04
Spiked Amount 50.000			Recovery =	14.48%		
51) 2-Fluorobiphenyl	11.560	172	56941	8.27	ppb	-0.03
Spiked Amount 50.000			Recovery =	16.54%		
73) 2,4,6-Tribromophenol	14.459	330	11794	10.66	ppb	-0.05
Spiked Amount 50.000			Recovery =	21.32%		
85) Terphenyl-d14	18.513	244	69014	11.51	ppb	-0.03
Spiked Amount 50.000			Recovery =	23.02%		
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.633	88	3955	4.44	ppb	96
3) Pyridine	3.120	79	15127	5.39	ppb	90
4) N-Nitrosodimethylamine	3.098	42	8253	5.45	ppb	# 82
6) Indene	7.500	116	27333	6.31	ppb	95
7) Cumene	5.698	105	30237	5.08	ppb	96
9) Phenol	6.601	94	26466	6.40	ppb	95
10) Aniline	6.537	93	26461	6.48	ppb	87
11) bis(2-Chloroethyl)ether	6.650	93	22351	7.03	ppb	93
12) 2-Chlorophenol	6.719	128	21776	7.06	ppb	89
13) Decane	6.783	43	18448	4.61	ppb	95
14) 1,3-Dichlorobenzene	6.928	146	23778	6.83	ppb	98
15) 1,4-Dichlorobenzene	7.019	146	26716	7.27	ppb	96
16) Benzyl alcohol	7.505	108	10891	6.79	ppb	# 20
17) 1,2-Dichlorobenzene	7.361	146	24802	7.13	ppb	97
18) Acetophenone	7.821	105	31158	7.83	ppb	# 69
19) 2-Methylphenol	7.634	108	19505	6.72	ppb	97
20) 2,2'-oxybis(1-Chloropr...	7.612	121	7007	7.59	ppb	# 56
21) 3&4-Methylphenol	7.933	108	22013	7.66	ppb	92
22) n-Nitroso-di-n-propyla...	7.874	70	14950	6.47	ppb	90
23) Hexachloroethane	7.896	201	9599	7.54	ppb	85
26) Nitrobenzene	8.115	123	11037	7.65	ppb	# 82
27) Quinoline	10.116	129	46471	9.45	ppb	99
28) Isophorone	8.548	82	46221	7.95	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P707.D
 Acq On : 1 Nov 2010 5:47 pm
 Operator : kristis
 Sample : op46332-msd
 Misc : op46332,e3p33,35.0,,,1,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 02 11:45:09 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.736	139	11777	7.14	ppb	# 61
30) 2,4-Dimethylphenol	8.891	107	15807	6.32	ppb	94
31) Benzoic acid	9.196	105	13778	8.62	ppb	71
32) bis(2-Chloroethoxy)met...	9.035	93	28603	7.75	ppb	98
33) 2,4-Dichlorophenol	9.249	162	18619	8.04	ppb	84
34) 2,6-Dichlorophenol	9.634	162	19626	8.39	ppb	96
36) 1,2,4-Trichlorobenzene	9.308	180	21799	8.18	ppb	95
38) Naphthalene	9.404	128	67772	7.59	ppb	100
39) 4-Chloroaniline	9.640	127	27571	7.74	ppb	98
40) 2,3-Dichloroaniline	11.421	161	22974	8.34	ppb	98
41) Caprolactam	10.249	55	9700	6.49	ppb	83
42) Hexachlorobutadiene	9.784	225	13581	8.75	ppb	96
43) 4-Chloro-3-methylphenol	10.677	107	19960	8.83	ppb	92
44) 2-Methylnaphthalene	10.768	142	47294	8.15	ppb	95
45) 1-Methylnaphthalene	10.971	142	40622	7.62	ppb	97
46) Dimethylnaphthalene	12.014	156	37448	8.41	ppb	96
48) Hexachlorocyclopentadiene	11.217	237	20175	20.09	ppb	93
49) 2,4,6-Trichlorophenol	11.442	196	13717	7.75	ppb	91
50) 2,4,5-Trichlorophenol	11.576	196	15991	8.45	ppb	87
52) 2-Chloronaphthalene	11.715	162	45043	7.53	ppb	97
53) Biphenyl	11.720	154	51364	6.90	ppb	100
54) 2-Nitroaniline	12.068	65	12694	6.25	ppb	87
55) Dimethylphthalate	12.496	163	61776	10.07	ppb	98
56) Acenaphthylene	12.539	152	71231	7.58	ppb	96
57) 2,6-Dinitrotoluene	12.624	165	12242	9.17	ppb	87
58) 3-Nitroaniline	12.918	138	14487	8.70	ppb	88
59) Acenaphthene	12.902	153	44965	7.56	ppb	99
60) 2,4-Dinitrophenol	13.159	184	5728	19.04	ppb	# 92
61) 4-Nitrophenol	13.475	109	7130m	8.91	ppb	
62) Dibenzofuran	13.239	168	65647	8.13	ppb	99
63) 2,4-Dinitrotoluene	13.416	165	17203	9.59	ppb	94
64) 2,3,4,6-Tetrachlorophenol	13.630	232	12697	8.75	ppb	97
65) Diethylphthalate	13.918	149	61336	9.10	ppb	99
66) Fluorene	13.918	166	55806	8.66	ppb	99
67) 4-Chlorophenyl-phenyle...	13.967	204	26504	9.42	ppb	96
68) 4-Nitroaniline	14.138	138	15026	8.91	ppb	90
70) 4,6-Dinitro-2-methylph...	14.218	198	6298	10.39	ppb	95
71) n-Nitrosodiphenylamine	14.234	169	41240	9.16	ppb	98
72) 1,2-Diphenylhydrazine	14.271	77	57890	6.73	ppb	91
74) 4-Bromophenyl-phenylether	14.929	248	18371	9.99	ppb	92
75) Hexachlorobenzene	15.175	284	22719	10.06	ppb	96
76) Pentachlorophenol	15.593	266	7447	12.41	ppb	99
77) Phenanthrene	15.807	178	81197	9.60	ppb	97
78) Anthracene	15.903	178	82048	9.70	ppb	97
79) Carbazole	16.272	167	77415	9.57	ppb	97
80) Di-n-butylphthalate	17.063	149	104035	9.01	ppb	99
81) Fluoranthene	17.887	202	91694	9.79	ppb	96
82) Octadecane	15.726	57	35223	7.14	ppb	92
84) Pyrene	18.219	202	94598	9.08	ppb	99
86) Butylbenzylphthalate	19.278	149	44735	8.54	ppb	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P707.D
Acq On : 1 Nov 2010 5:47 pm
Operator : kristis
Sample : op46332-msd
Misc : op46332,e3p33,35.0,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 02 11:45:09 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration

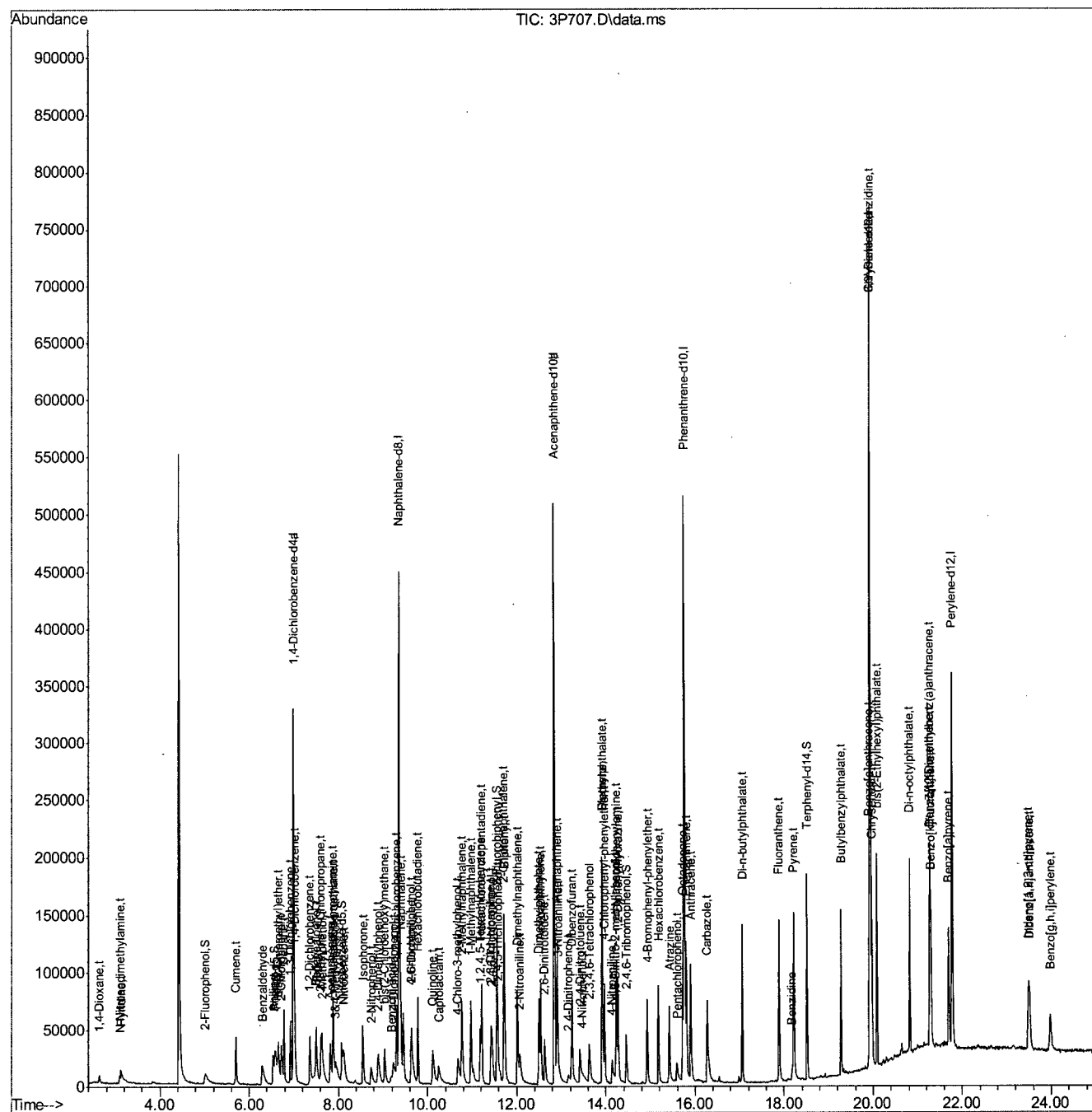
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	19.914	228	79526	9.52	ppb	98
89) 3,3'-Dichlorobenzidine	19.936	252	42416	13.10	ppb	95
90) Chrysene	19.973	228	74540	10.50	ppb	98
91) bis(2-Ethylhexyl)phtha...	20.085	149	58151	9.73	ppb	94
93) Di-n-octylphthalate	20.824	149	97556	8.95	ppb	92
94) Benzo[b]fluoranthene	21.273	252	69559	9.29	ppb	96
95) Benzo[k]fluoranthene	21.305	252	55486	8.76	ppb	97
96) Benzo[a]pyrene	21.701	252	52460	8.74	ppb	95
97) Indeno[1,2,3-cd]pyrene	23.498	276	45206	9.25	ppb	87
99) Dibenz[a,h]anthracene	23.514	278	39271	10.56	ppb	90
100) 7,12-Dimethylbenz(a)an...	21.284	256	27122	11.14	ppb	90
101) Benzo[g,h,i]perylene	23.990	276	36717	9.84	ppb	85
103) Benzaldehyde	6.297	105	14866	9.20	ppb	85
105) Atrazine	15.427	215	8305	12.12	ppb #	79
107) Benzidine	18.176	184	16468	4.83	ppb	92
111) 1,2,4,5-Tetrachloroben...	11.185	216	19180	6.78	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P707.D
Acq On : 1 Nov 2010 5:47 pm
Operator : kristis
Sample : op46332-msd
Misc : op46332,e3p33,35.0,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 02 11:45:09 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



M3P27.M Tue Nov 02 11:45:18 2010 RPT1

Page: 4

8.4.4

Manual Integration Approval Summary

Page 1 of 1

Sample Number: OP46332-MSD **Method:** SW846 8270C
Lab FileID: 3P707.D **Analyst approved:** 11/04/10 11:17 Kristi Schollenberger
Injection Time: 11/01/10 17:47 **Supervisor approved:** 11/08/10 18:36 Cheng-Hwan Ao

Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Nitrophenol	100-02-7		13.47	Split peak

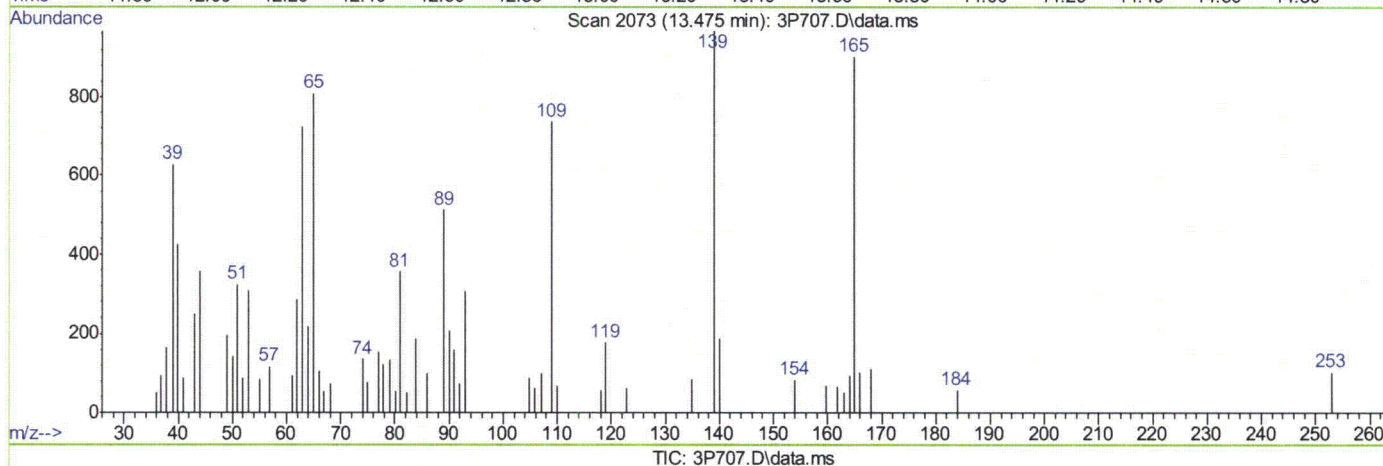
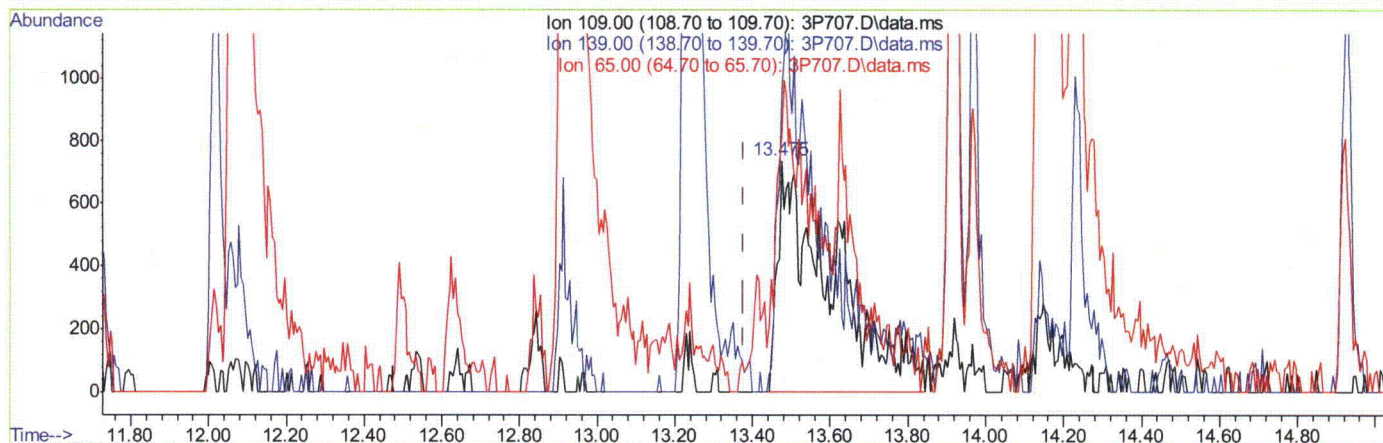
8.4.4.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P707.D
Acq On : 1 Nov 2010 5:47 pm
Operator : kristis
Sample : op46332-msd
Misc : op46332,e3p33,35.0,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 02 11:24:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(61) 4-Nitrophenol (t)

13.475min (+0.097) 8.91ppb m

response 7130

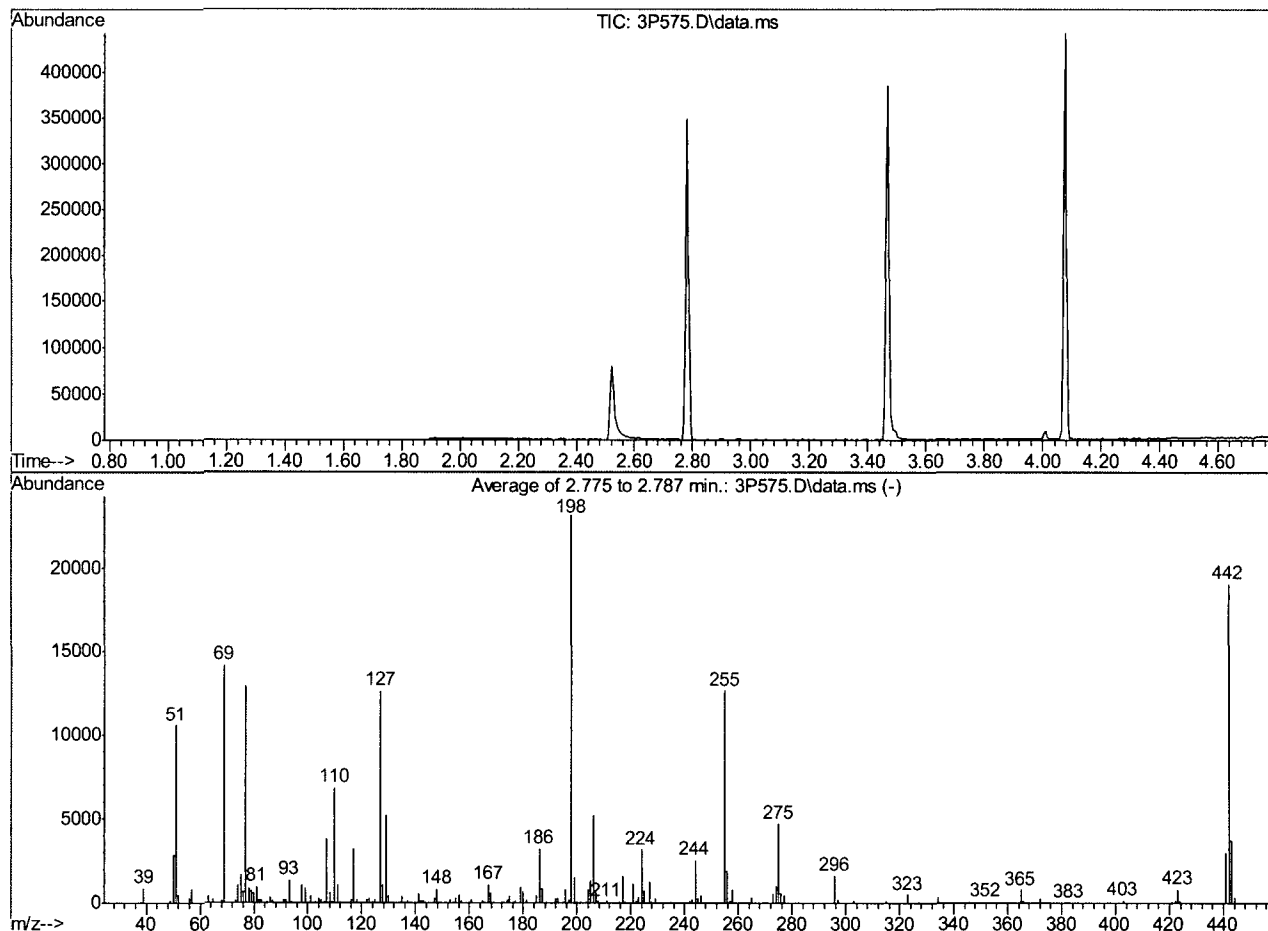
Ion	Exp%	Act%
109.00	100	100
139.00	144.00	131.21
65.00	138.90	109.77
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\27\3P575.D
 Acq On : 25 Oct 2010 12:08 pm
 Sample : dftpp
 Misc : op46181,e3p27,1000,,,1,1
 MS Integration Params: events.e

Vial: 1
 Operator: kristis
 Inst : GC3P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 151, 152, 153; Background Corrected with Scan 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	10610	PASS
68	69	0.00	2	1.1	162	PASS
69	198	0.00	100	61.3	14187	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.6	12640	PASS
197	198	0.00	1	0.9	216	PASS
198	198	100	100	100.0	23142	PASS
199	198	5	9	6.6	1537	PASS
275	198	10	30	20.5	4736	PASS
365	198	1	100	3.4	778	PASS
441	443	0.01	100	79.5	2999	PASS
442	198	40	100	82.5	19094	PASS
443	442	17	23	19.8	3772	PASS

Average of 2.775 to 2.787 min.: 3P575.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.90	61	67.95	162	81.90	202	100.90	435
39.00	874	68.90	14187	82.90	187	102.90	93
43.90	2	72.95	127	84.95	101	103.90	256
48.90	112	74.00	1052	85.90	326	105.00	235
50.00	2861	75.00	1679	86.90	120	106.10	68
51.00	10610	76.00	655	90.85	195	106.95	3831
51.95	493	77.00	12956	91.85	182	107.95	621
55.90	296	78.00	873	92.95	1351	108.90	55
57.00	809	78.95	708	94.00	76	109.10	89
63.00	416	79.90	591	97.90	1068	109.90	6814
64.95	170	80.90	955	98.95	876	110.95	1049

Average of 2.775 to 2.787 min.: 3P575.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
111.90	68	129.90	435	148.80	70	166.95	1087
115.95	177	130.90	69	150.90	53	167.95	633
116.95	3195	133.90	52	152.85	183	168.90	69
118.00	177	134.90	375	153.90	58	171.80	52
121.85	206	136.00	86	155.00	285	172.90	64
122.85	263	136.80	160	155.90	490	173.95	231
123.90	90	140.90	538	156.95	156	174.95	392
124.85	198	141.95	159	159.90	88	175.90	60
127.00	12640	142.90	110	160.85	214	176.85	154
127.90	1043	146.90	291	164.90	168	178.95	928
128.90	5234	147.90	802	165.80	77	179.90	638

Average of 2.775 to 2.787 min.: 3P575.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.90	207	198.90	1537	216.90	1591	241.90	139
184.85	490	199.90	60	217.90	72	242.90	199
186.00	3224	201.40	55	220.90	1147	243.95	2568
187.00	846	203.00	80	221.90	154	244.95	252
188.80	90	203.95	814	222.90	308	245.95	457
192.00	270	204.95	1304	224.00	3173	253.90	90
192.90	266	206.00	5231	225.00	741	255.00	12683
194.90	54	206.95	767	226.95	1299	255.90	1910
195.90	785	207.90	122	227.90	97	256.90	110
196.90	216	211.00	120	228.95	248	257.90	794
197.90	23142	215.80	65	234.90	55	258.90	57

Average of 2.775 to 2.787 min.: 3P575.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
263.80	61	322.95	505	420.90	96		
264.90	335	326.90	74	421.90	123		
272.90	505	334.00	338	422.95	835		
273.90	1033	345.90	52	423.95	127		
274.95	4736	351.90	67	441.00	2999		
275.85	589	353.90	97	442.00	19094		
276.90	449	364.90	778	443.00	3772		
295.95	1612	365.90	105	444.00	352		
296.85	224	371.95	237				
303.00	140	382.90	61				
314.90	114	402.90	154				

DFTPP

Data File : C:\msdchem\1\DATA\28\3P593.D

Acq On : 25 Oct 2010 9:03 pm

Sample : dftpp

Misc : op46181,e3p28,1000,,,1,1

MS Integration Params: events.e

Vial: 1

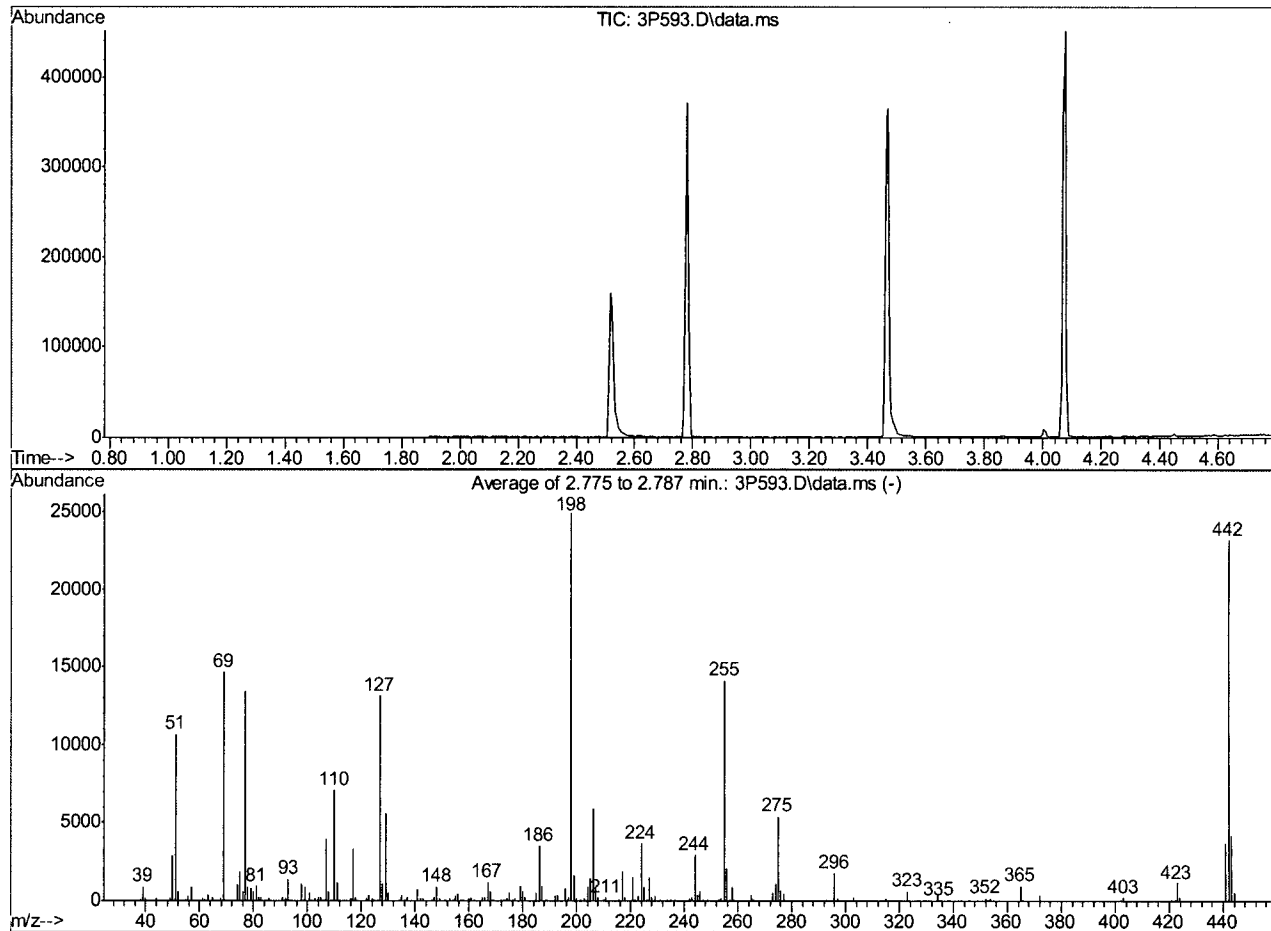
Operator: kristis

Inst : GC3P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)

Title :



AutoFind: Scans 151, 152, 153; Background Corrected with Scan 147

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	42.8	10668	PASS
68	69	0.00	2	1.2	175	PASS
69	198	0.00	100	58.8	14645	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.8	13153	PASS
197	198	0.00	1	0.9	224	PASS
198	198	100	100	100.0	24918	PASS
199	198	5	9	6.6	1655	PASS
275	198	10	30	21.8	5424	PASS
365	198	1	100	3.8	947	PASS
441	443	0.01	100	88.1	3703	PASS
442	198	40	100	93.2	23214	PASS
443	442	17	23	18.1	4205	PASS

Average of 2.775 to 2.787 min.: 3P593.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	66	60.95	144	78.00	899	92.90	1371
38.90	884	61.90	61	78.95	758	94.00	60
39.95	128	63.00	341	79.95	602	97.95	1071
43.85	124	64.90	186	81.00	916	98.95	830
48.90	177	67.95	175	81.90	209	100.90	514
50.00	2856	68.90	14645	82.95	204	102.90	161
51.00	10668	73.00	61	83.80	35	103.95	237
52.00	557	74.00	982	84.90	63	104.90	244
54.90	52	74.95	1839	85.85	151	105.80	50
55.90	292	76.00	582	90.90	222	106.95	3975
56.95	871	77.00	13465	91.95	173	108.00	553

Average of 2.775 to 2.787 min.: 3P593.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
109.00	65	125.00	81	141.80	79	155.85	436
110.00	7107	126.10	91	142.00	124	156.90	77
110.95	1133	126.95	13153	142.85	158	157.90	53
111.90	57	127.95	1066	146.00	87	159.85	134
115.95	176	128.90	5623	146.90	186	160.90	224
116.95	3287	129.90	502	147.90	885	161.80	51
117.95	221	133.90	64	148.90	167	164.85	197
121.85	165	134.90	377	151.10	62	165.95	231
122.90	370	136.00	88	152.90	161	166.90	1177
123.95	166	137.00	217	154.00	63	167.90	572
124.80	54	140.90	694	154.90	292	168.10	80

Average of 2.775 to 2.787 min.: 3P593.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.90	70	184.95	472	198.90	1655	215.90	83
171.80	77	186.00	3504	199.95	133	216.90	1839
172.80	64	186.95	902	201.50	55	217.85	221
173.80	87	188.70	66	202.95	155	220.85	1503
174.00	115	188.90	95	204.00	841	221.70	51
174.95	516	191.85	270	204.90	1440	222.90	293
176.00	95	192.90	340	206.00	5903	224.00	3644
176.85	169	195.90	812	206.95	863	224.95	835
178.90	922	196.70	50	207.90	202	226.10	67
179.95	589	197.00	224	209.90	85	226.90	1533
180.90	250	197.90	24918	210.95	197	227.90	228

Average of 2.775 to 2.787 min.: 3P593.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
228.90	295	248.90	95	274.00	1056	323.00	602
231.00	79	253.00	69	274.95	5424	323.90	91
233.90	65	253.85	130	275.90	628	326.90	93
234.80	50	255.00	14096	277.00	468	334.00	436
236.80	75	255.90	2094	292.90	78	334.90	57
242.00	134	256.90	94	295.90	1795	345.80	96
243.00	220	257.95	862	296.90	130	351.90	163
244.00	2925	258.90	74	302.85	185	352.90	85
244.95	365	264.85	391	313.90	58	353.80	131
245.90	554	265.80	87	314.90	116	364.95	947
246.90	53	272.95	518	315.90	52	365.90	64

Average of 2.775 to 2.787 min.: 3P593.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.95	333						
401.90	90						
402.95	194						
420.90	108						

422.00	104
422.95	1119
423.95	198
441.00	3703
442.00	23214
443.00	4205
444.00	471

DFTPP

Data File : C:\msdchem\1\DATA\29\3P607.D

Acq On : 26 Oct 2010 8:51 am

Sample : dftpp

Misc : op46181,e3p29,1000,,,1,1

MS Integration Params: events.e

Vial: 1

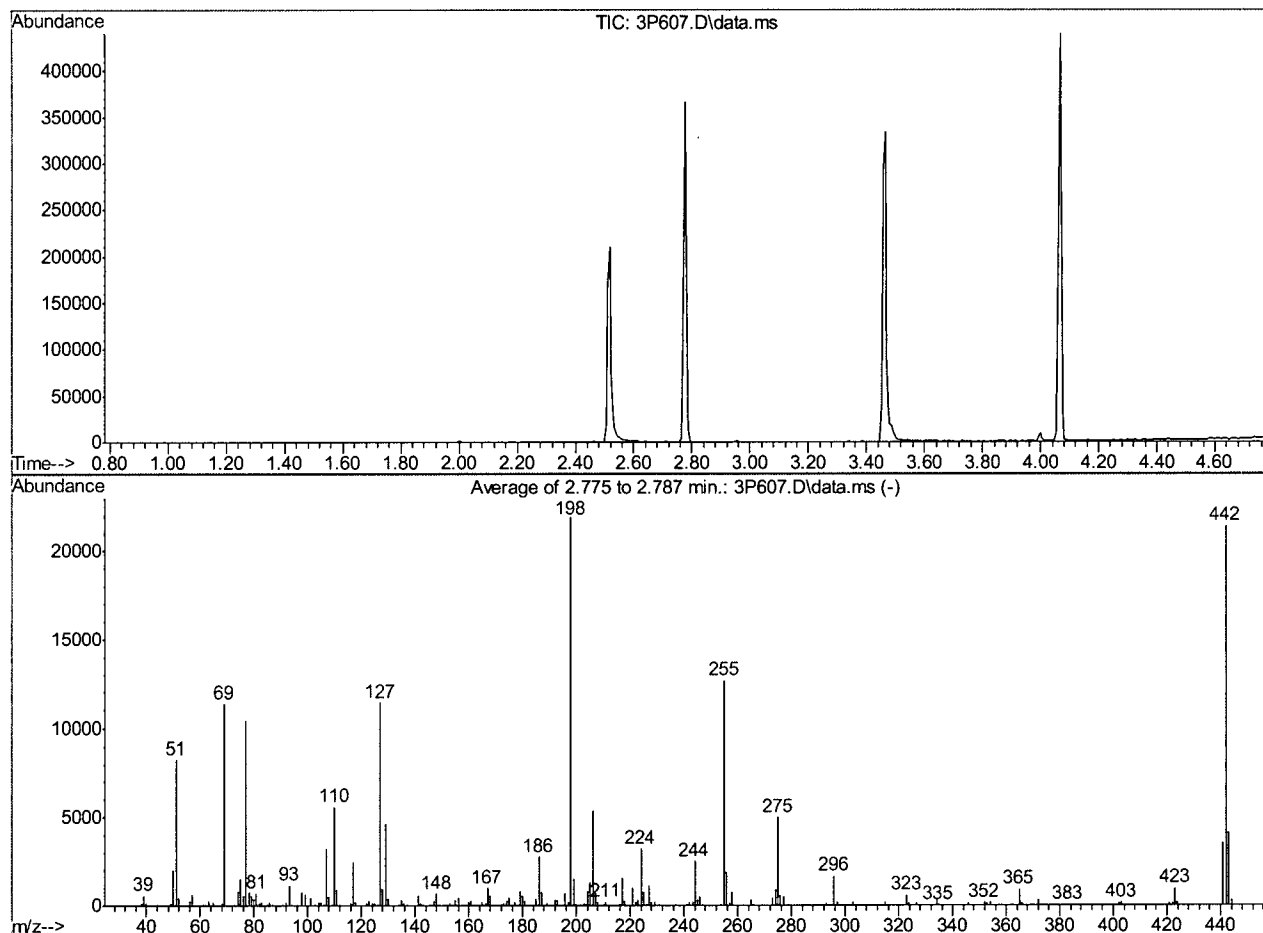
Operator: kristis

Inst : GC3P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)

Title :



AutoFind: Scans 151, 152, 153; Background Corrected with Scan 147

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	37.7	8281	PASS
68	69	0.00	2	1.0	109	PASS
69	198	0.00	100	51.8	11367	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.2	11454	PASS
197	198	0.00	1	0.9	197	PASS
198	198	100	100	100.0	21946	PASS
199	198	5	9	6.9	1510	PASS
275	198	10	30	22.8	4997	PASS
365	198	1	100	4.1	904	PASS
441	443	0.01	100	85.9	3524	PASS
442	198	40	100	97.5	21403	PASS
443	442	17	23	19.2	4104	PASS

Average of 2.775 to 2.787 min.: 3P607.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	110	62.00	85	79.00	574	93.90	55
39.00	595	63.00	260	79.90	404	96.00	59
39.95	115	65.00	190	80.90	700	97.95	754
43.90	55	68.00	109	81.90	136	99.00	623
48.85	160	68.95	11367	82.85	187	100.95	431
50.00	2023	72.90	51	84.90	80	102.90	74
51.00	8281	74.00	815	85.80	168	103.85	220
52.00	460	75.00	1517	86.80	51	104.80	178
56.00	285	76.00	550	90.90	90	106.00	80
57.00	626	77.00	10478	92.00	182	106.95	3255
61.00	67	78.00	739	93.00	1169	107.95	487

Average of 2.775 to 2.787 min.: 3P607.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
109.00	67	126.10	70	142.90	89	158.90	57
109.90	5604	127.00	11454	145.90	60	159.90	198
110.90	863	127.95	974	146.90	236	160.90	274
112.00	74	129.00	4626	147.90	684	164.80	215
116.00	107	129.90	411	148.90	91	165.95	154
116.95	2478	133.90	71	150.90	59	166.90	1000
117.95	167	134.95	313	152.90	122	168.00	589
121.90	102	135.80	113	153.90	94	169.00	52
122.95	263	137.00	95	154.95	301	171.80	62
124.00	155	140.95	546	155.95	453	172.95	155
124.90	122	141.90	122	157.90	53	173.95	235

Average of 2.775 to 2.787 min.: 3P607.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	417	192.95	294	206.00	5399	222.95	319
176.00	75	195.90	710	207.00	762	224.00	3218
176.90	206	196.85	197	207.95	197	224.95	784
178.90	853	197.90	21946	210.30	67	226.00	61
179.95	552	198.90	1510	210.95	199	226.90	1173
180.90	245	199.80	71	215.80	73	227.90	166
184.95	399	201.50	90	216.00	73	228.95	221
186.00	2782	202.90	115	216.90	1588	230.80	58
187.00	786	203.10	62	217.90	229	237.00	51
188.90	128	203.90	856	220.90	1001	241.00	60
191.90	309	205.00	1353	221.95	195	241.90	189

Average of 2.775 to 2.787 min.: 3P607.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.05	175	265.70	81	314.90	185	365.90	125
244.00	2504	272.90	474	323.00	585	372.00	340
244.90	312	273.95	904	323.90	106	383.00	63
245.95	481	274.95	4997	326.80	129	401.95	141
246.90	57	275.90	569	333.95	369	402.95	184
253.80	69	276.90	492	334.90	51	420.90	101
255.00	12663	284.90	53	345.90	135	421.90	118
255.90	1910	292.90	134	351.90	177	423.00	974
256.95	126	295.95	1671	352.90	128	423.90	183
257.90	740	296.90	222	353.95	192	441.00	3524
264.90	292	302.85	209	364.95	904	442.00	21403

Average of 2.775 to 2.787 min.: 3P607.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.00	4104						
443.95	292						

DFTPP

Data File : C:\msdchem\1\DATA\33\3P692.D

Acq On : 1 Nov 2010 10:03 am

Sample : dftpp

Misc : op46181,e3p33,1000,,,1,1

MS Integration Params: events.e

Vial: 1

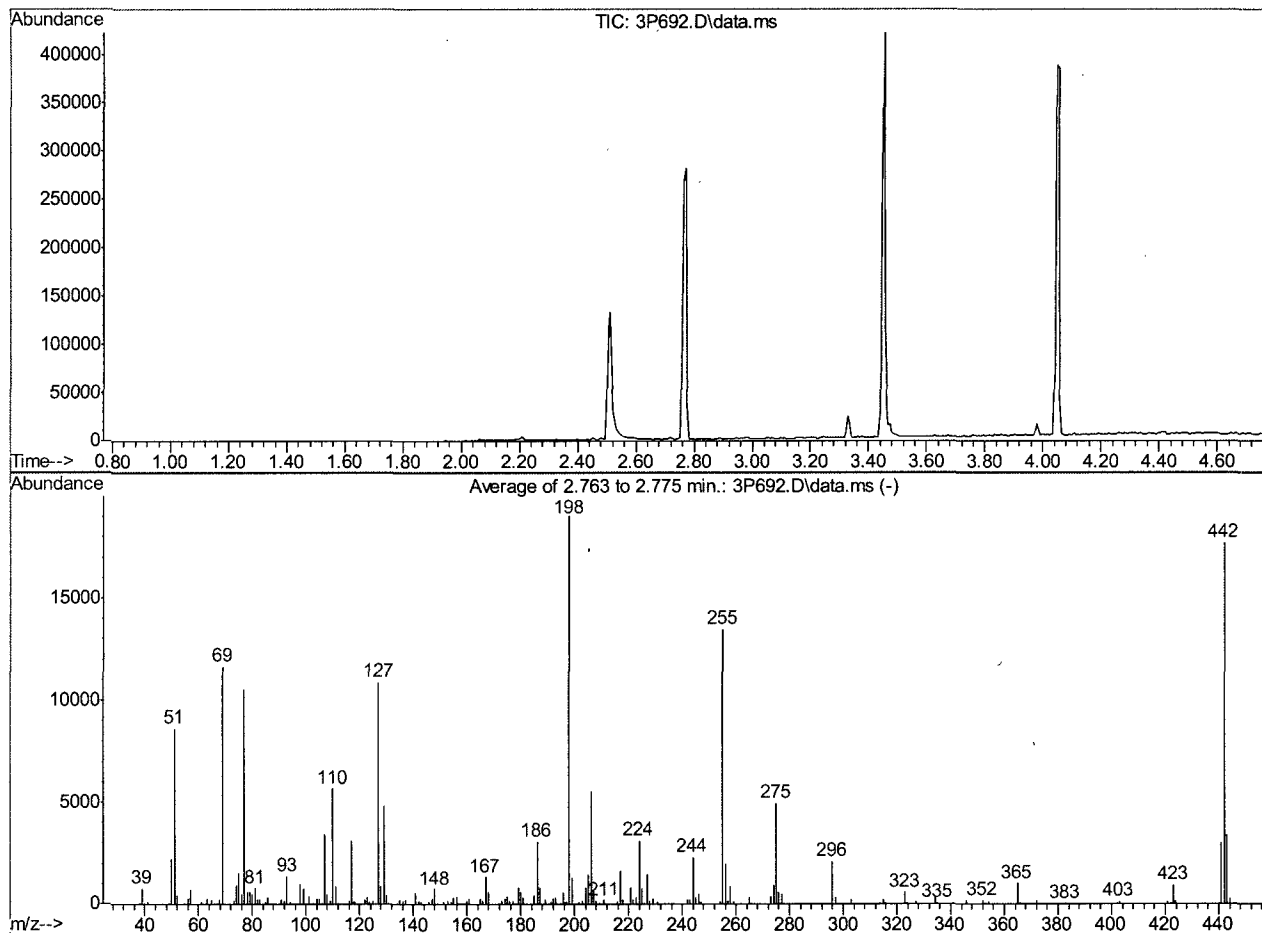
Operator: kristis

Inst : GC3P

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)

Title :



AutoFind: Scans 149, 150, 151; Background Corrected with Scan 145

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.3	8633	PASS
68	69	0.00	2	1.7	197	PASS
69	198	0.00	100	61.2	11655	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	57.1	10879	PASS
197	198	0.00	1	0.7	134	PASS
198	198	100	100	100.0	19045	PASS
199	198	5	9	6.8	1303	PASS
275	198	10	30	26.0	4953	PASS
365	198	1	100	5.4	1025	PASS
441	443	0.01	100	88.0	3012	PASS
442	198	40	100	93.0	17706	PASS
443	442	17	23	19.3	3424	PASS

Average of 2.763 to 2.775 min.: 3P692.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	69	61.00	109	78.05	614	92.00	170
39.00	786	63.00	289	79.00	609	92.95	1395
39.90	55	64.95	197	80.00	475	93.95	137
41.00	104	67.00	53	81.00	806	98.00	965
48.90	44	67.95	197	81.95	200	99.00	749
50.00	2227	69.00	11655	82.95	245	101.00	390
51.00	8633	73.00	170	83.90	13	102.90	64
52.00	429	74.00	923	85.05	128	103.90	267
55.00	72	74.95	1532	85.90	306	105.00	280
56.00	291	76.05	507	87.00	71	106.10	64
57.00	711	77.00	10574	90.90	226	107.00	3482

Average of 2.763 to 2.775 min.: 3P692.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.95	488	122.95	339	136.00	143	154.00	137
109.05	148	123.85	132	137.00	208	154.95	337
110.00	5700	125.00	173	140.90	572	156.00	364
110.95	889	126.10	70	141.85	172	157.10	59
111.80	52	127.00	10879	142.90	139	157.80	53
112.00	54	127.95	880	145.85	125	158.90	55
115.95	161	129.00	4825	146.95	302	159.95	148
117.00	3120	129.90	420	148.00	744	160.95	276
117.90	108	130.90	51	149.00	68	164.90	251
118.10	96	134.10	65	151.10	102	165.95	173
122.00	211	134.95	245	152.85	173	167.00	1349

Average of 2.763 to 2.775 min.: 3P692.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.00	592	184.95	445	197.90	19045	211.20	66
171.90	60	186.00	3105	198.90	1303	215.95	135
172.95	148	187.00	829	201.45	129	216.90	1673
173.90	256	188.95	208	202.95	182	217.90	212
175.00	385	191.00	86	204.00	850	220.95	839
175.95	170	191.85	264	205.00	1512	221.80	221
176.90	190	193.00	308	206.00	5553	223.00	308
177.80	76	194.90	75	207.00	736	224.00	3160
178.90	809	195.95	608	207.90	177	224.95	752
179.95	594	196.70	134	208.90	59	225.90	52
180.95	320	197.10	106	210.80	212	227.00	1466

Average of 2.763 to 2.775 min.: 3P692.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
228.05	183	246.00	469	273.95	914	302.95	202
229.00	297	246.95	129	275.00	4953	313.90	51
230.90	89	253.95	110	276.00	589	314.80	60
233.80	50	255.00	13476	276.70	52	315.05	213
234.90	54	256.00	1967	276.95	497	316.00	67
236.00	62	256.95	142	278.00	57	323.00	586
237.00	51	257.95	857	283.00	52	323.90	83
241.95	221	259.00	122	285.00	74	326.90	87
243.00	219	264.95	312	293.00	52	334.00	322
244.00	2312	265.90	55	296.00	2092	335.10	64
244.95	319	272.90	391	296.95	315	341.00	55

Average of 2.763 to 2.775 min.: 3P692.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
345.95	165	421.00	92				
351.95	191	421.90	54				
352.90	72	423.00	943				
354.00	138	423.95	168				

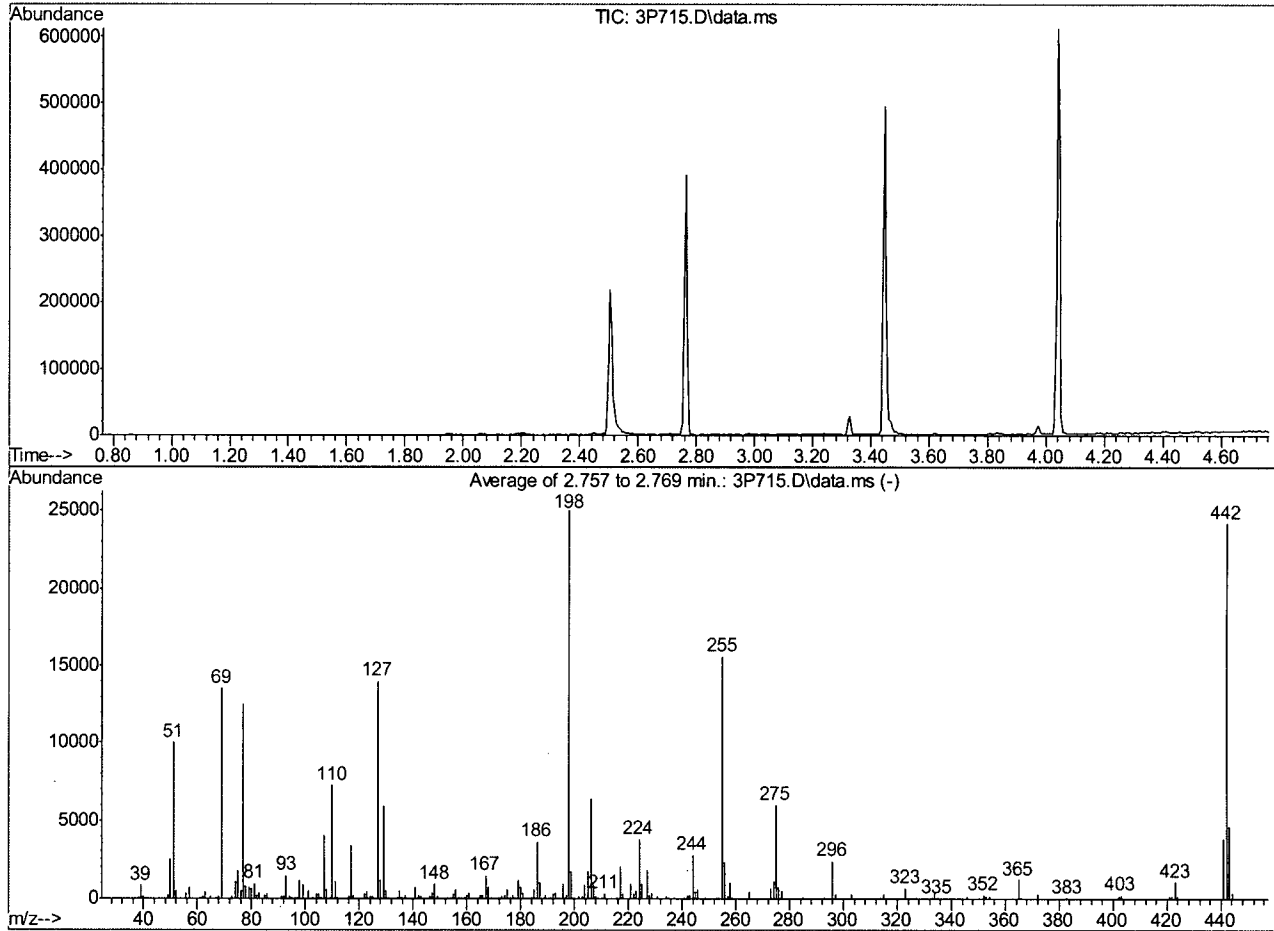
365.00	1025	441.00	3012
365.90	84	442.00	17706
371.90	93	443.00	3424
372.10	185	444.00	271
382.90	54		
401.90	68		
402.90	116		

DFTPP

Data File : C:\msdchem\1\DATA\34\3P715.D
Acq On : 2 Nov 2010 10:23 am
Sample : dftpp
Misc : op46181,e3p34,1000,,,1,1
MS Integration Params: events.e

Vial: 1
Operator: kristis
Inst : GC3P
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title :



AutoFind: Scans 148, 149, 150; Background Corrected with Scan 145

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	40.0	10006	PASS
68	69	0.00	2	1.3	174	PASS
69	198	0.00	100	54.2	13543	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	56.0	13991	PASS
197	198	0.00	1	0.8	200	PASS
198	198	100	100	100.0	24992	PASS
199	198	5	9	6.8	1710	PASS
275	198	10	30	24.0	5996	PASS
365	198	1	100	4.8	1208	PASS
441	443	0.01	100	82.6	3832	PASS
442	198	40	100	96.9	24209	PASS
443	442	17	23	19.2	4637	PASS

Average of 2.757 to 2.769 min.: 3P715.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	55	57.00	703	76.00	515	92.00	132
39.00	847	61.00	66	77.00	12508	92.95	1454
39.90	119	61.95	131	78.00	821	93.90	125
41.00	11	62.95	466	79.00	739	95.00	64
43.00	16	64.90	168	80.00	646	96.00	59
48.95	221	67.00	57	80.95	951	97.00	56
50.00	2502	68.00	174	81.95	233	97.95	1139
51.00	10006	69.00	13543	82.90	339	98.95	864
52.00	520	73.00	115	84.95	213	101.00	490
55.00	4	74.00	1090	85.90	303	102.80	77
55.90	381	75.00	1772	91.00	167	103.90	295

Average of 2.757 to 2.769 min.: 3P715.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.00	279	121.95	285	135.90	100	154.80	129
105.80	50	122.90	445	136.95	192	155.00	293
107.00	4018	123.90	139	140.95	699	155.90	602
107.95	594	124.85	182	141.90	242	157.00	97
109.10	77	127.00	13991	143.00	138	157.90	73
110.00	7265	128.00	1133	146.00	111	159.00	56
110.95	1091	128.95	5890	146.90	392	159.85	201
111.90	50	129.95	510	147.95	932	160.95	345
115.95	170	131.00	52	148.95	179	164.85	215
117.00	3383	134.00	77	153.00	86	165.10	64
117.95	212	135.00	494	153.90	98	165.95	189

Average of 2.757 to 2.769 min.: 3P715.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.00	1467	178.95	1126	192.95	346	206.00	6423
168.00	703	179.90	696	195.95	922	207.00	883
169.00	75	180.90	341	196.70	58	207.95	180
171.90	67	184.00	53	196.95	200	208.90	63
173.00	144	184.95	581	197.90	24992	210.20	60
173.80	55	186.00	3632	198.90	1710	211.00	312
174.00	232	187.00	1013	199.90	65	215.90	80
174.95	547	188.95	184	201.50	163	216.95	2027
176.00	103	191.00	63	202.95	178	217.90	267
176.90	250	191.90	313	203.90	896	220.95	905
177.90	63	192.70	62	205.00	1755	221.85	272

Average of 2.757 to 2.769 min.: 3P715.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
222.90	497	241.95	216	257.95	988	295.95	2409
224.00	3763	242.95	187	258.90	84	297.00	276
225.00	973	244.00	2753	264.85	429	303.00	296
226.95	1824	245.00	440	273.00	619	313.90	75
227.95	224	245.95	586	274.00	1087	314.90	272
228.85	340	248.90	67	275.00	5996	323.00	649
231.00	128	253.10	63	275.95	757	324.00	74
234.00	114	253.80	56	276.80	97	326.90	78
235.00	99	255.00	15609	277.00	529	332.90	52
237.00	88	256.00	2286	285.00	75	333.95	426
241.00	59	257.05	159	293.00	75	335.00	66

Average of 2.757 to 2.769 min.: 3P715.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
340.90	57	420.95	148				
345.95	146	421.90	126				
352.00	241	423.00	1063				
352.85	159	424.00	176				

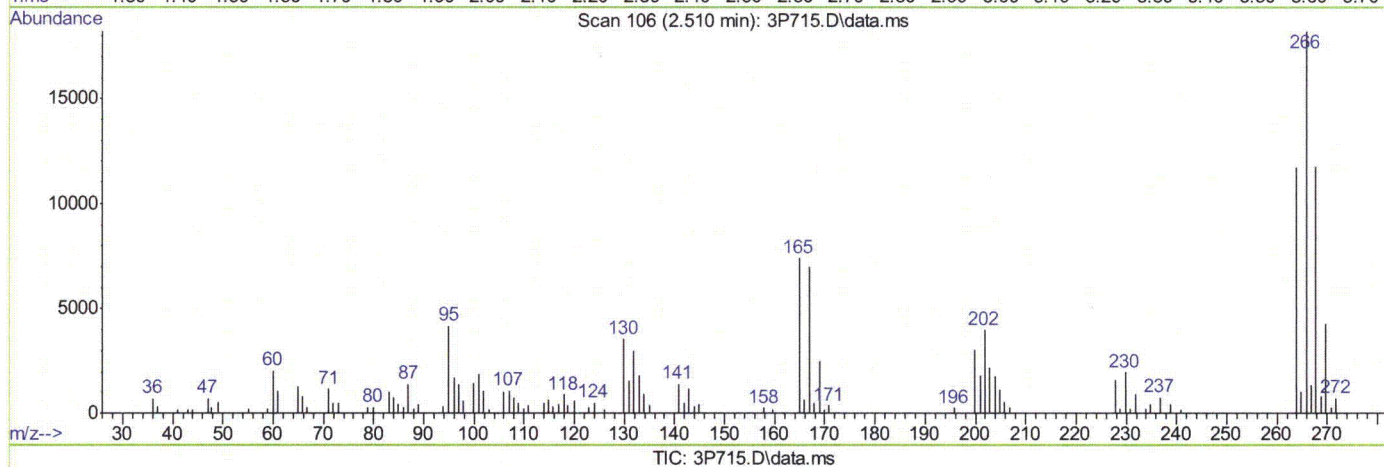
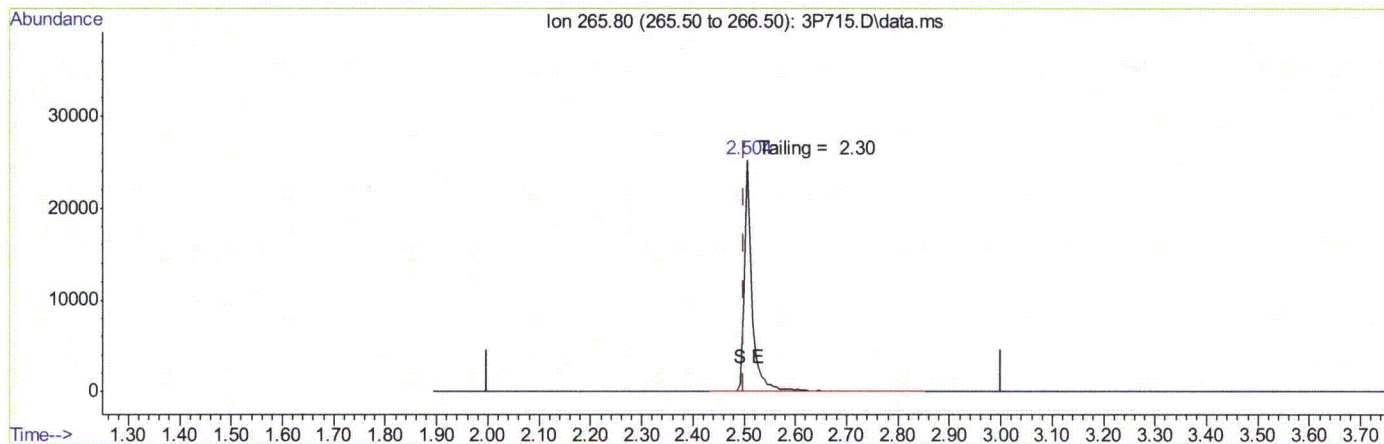
354.00	150	441.00	3832
365.00	1208	442.05	24209
365.90	74	443.00	4637
372.00	326	444.05	354
383.00	56		
401.95	163		
402.95	223		

8.5.5
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P715.D
Acq On : 2 Nov 2010 10:23 am
Operator : kristis
Sample : dftpp
Misc : op46181,e3p34,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 02 10:26:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title :
QLast Update : Tue Jul 20 16:47:23 2010
Response via : Initial Calibration



(1) Pentachlorophenol

2.508min (+0.008) 0.00ppb

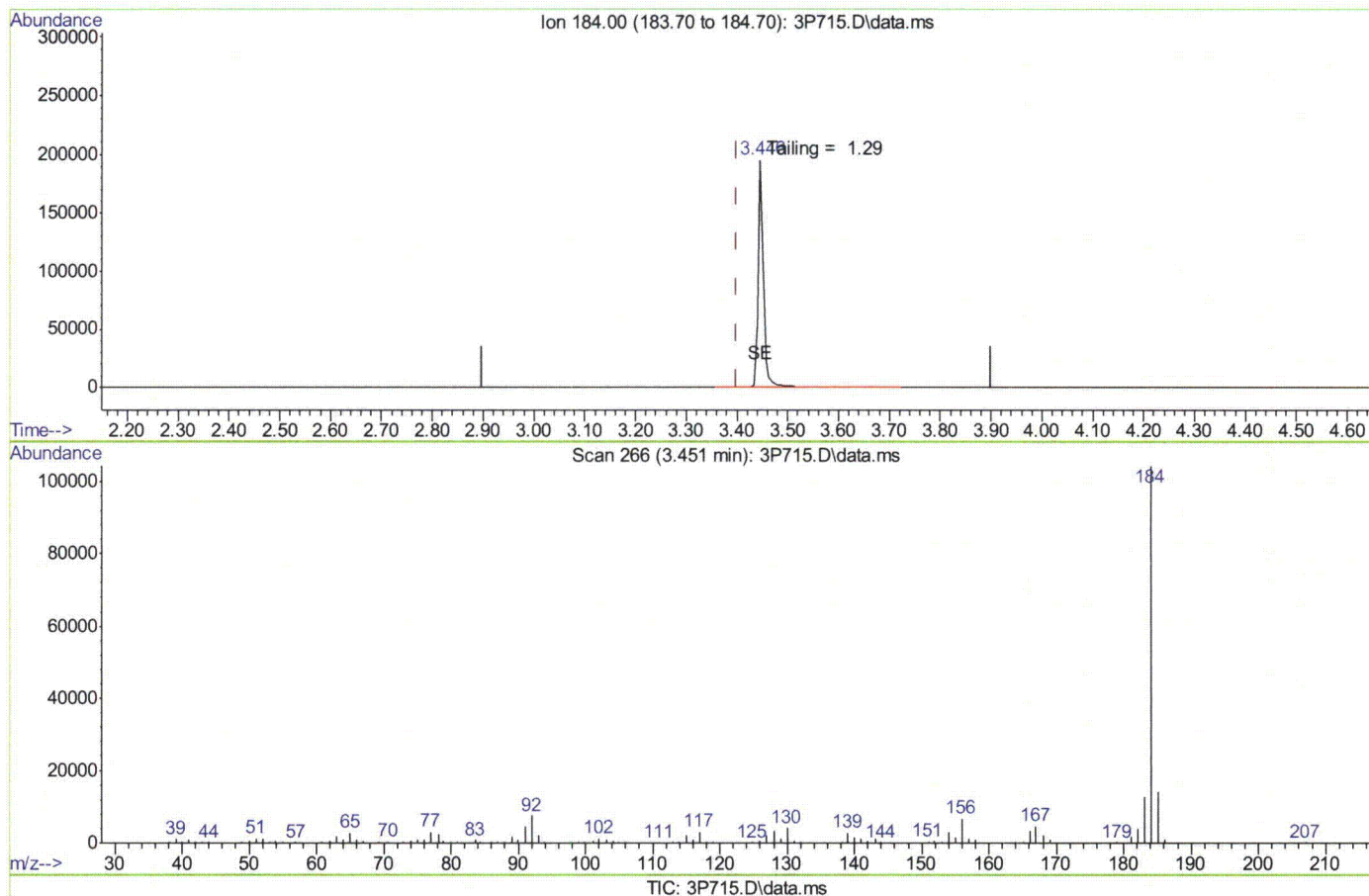
response 252798

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P715.D
Acq On : 2 Nov 2010 10:23 am
Operator : kristis
Sample : dftpp
Misc : op46181,e3p34,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 02 10:26:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title :
QLast Update : Tue Jul 20 16:47:23 2010
Response via : Initial Calibration



(2) Benzidine

3.449min (+0.049) 0.00ppb

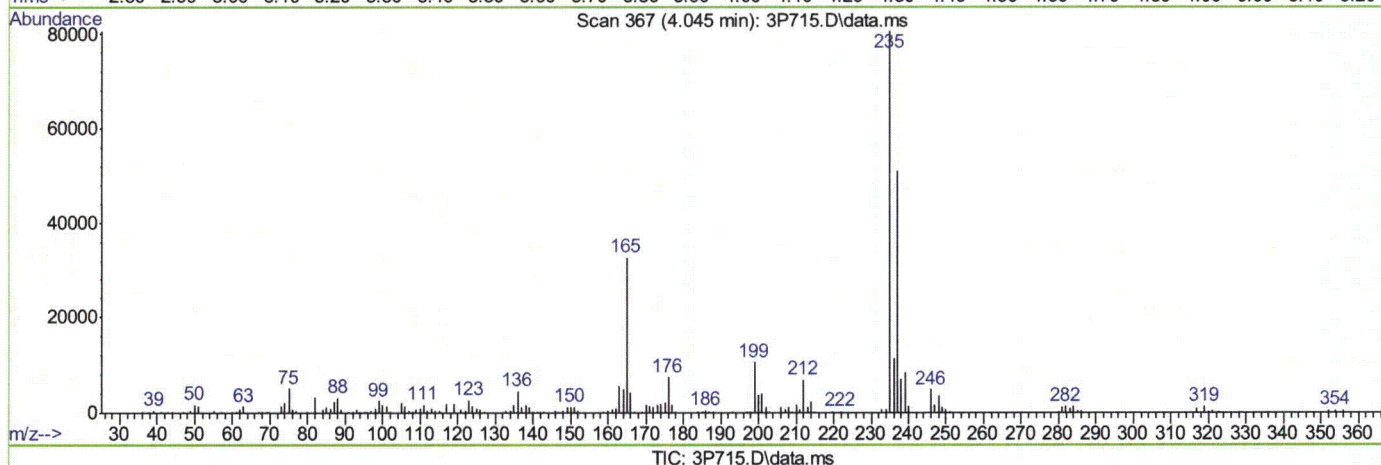
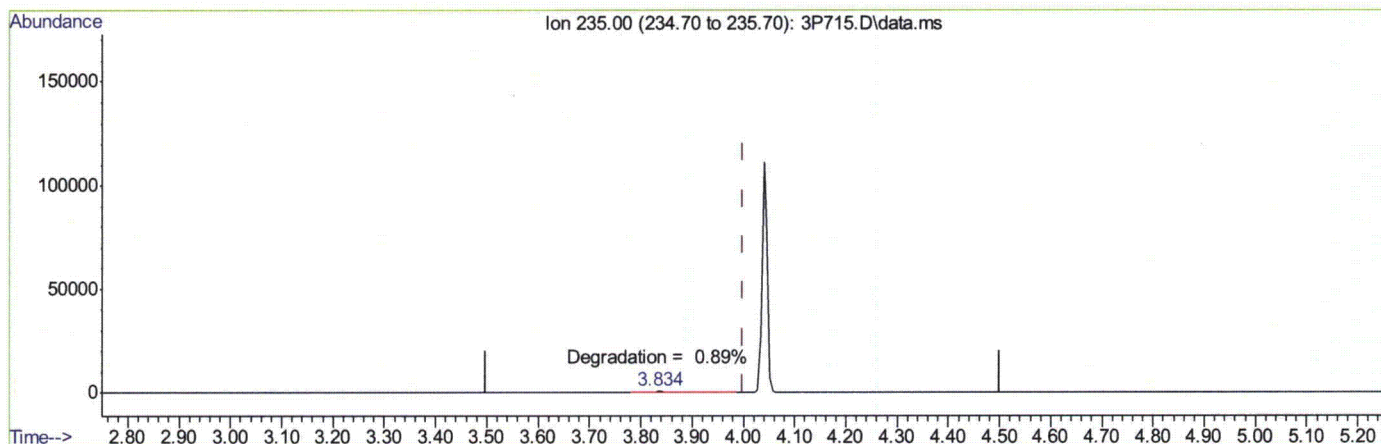
response 1405270

Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P715.D
Acq On : 2 Nov 2010 10:23 am
Operator : kristis
Sample : dftpp
Misc : op46181,e3p34,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 02 10:26:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title :
QLast Update : Tue Jul 20 16:47:23 2010
Response via : Initial Calibration



(3) PP-DDT

4.044min (+0.044) 0.00ppb

response 809621

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF4329\F92479.D

Vial: 1

Acq On : 20 Oct 2010 7:58 am

Operator: ninap

Sample : dftpp

Inst : MSF

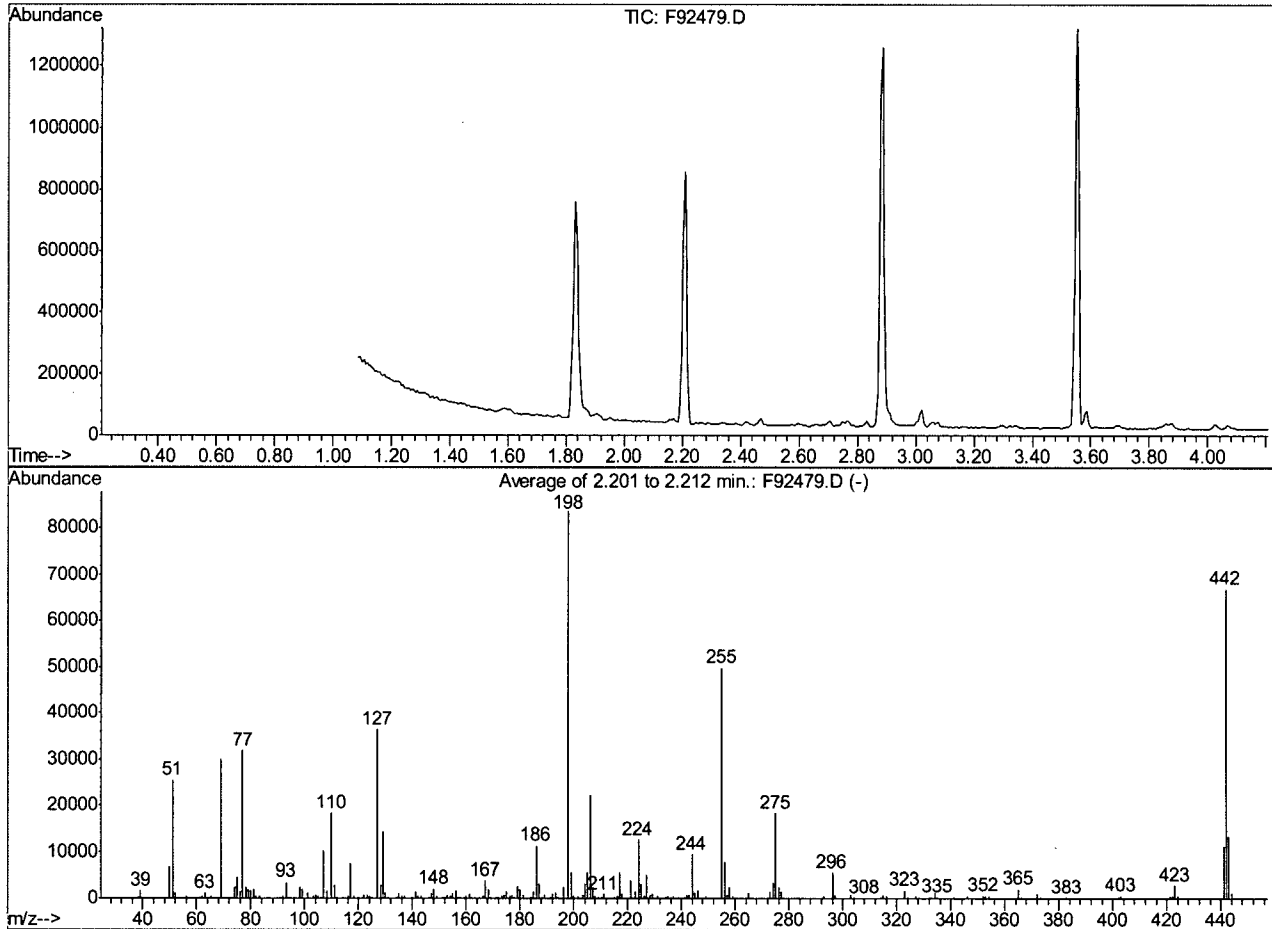
Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um



AutoFind: Scans 210, 211, 212; Background Corrected with Scan 203

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	30.4	25397	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.9	30033	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	43.5	36405	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83637	PASS
199	198	5	9	6.6	5517	PASS
275	198	10	30	21.8	18232	PASS
365	198	1	100	2.5	2054	PASS
441	443	0.10	100	83.0	11098	PASS
442	198	40	100	79.9	66853	PASS
443	442	17	23	20.0	13368	PASS

Average of 2.201 to 2.212 min.: F92479.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	173	65.10	563	82.05	482	99.00	1830
39.10	1666	69.00	30033	83.05	391	99.90	60
45.10	66	73.05	286	87.00	353	100.10	56
50.05	6702	74.10	2526	87.95	42	101.00	1261
51.10	25397	75.00	4472	91.00	328	103.00	442
52.10	1328	76.05	1569	92.05	609	104.00	803
56.00	393	77.10	31761	93.00	3422	105.05	559
61.05	360	78.10	2322	94.00	316	106.05	249
62.05	471	79.00	1838	95.00	27	107.00	10024
63.05	1161	80.00	1668	96.00	201	108.05	1740
64.00	179	81.00	1997	98.00	2357	110.00	18305

Average of 2.201 to 2.212 min.: F92479.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
111.00	2924	124.00	491	135.00	1091	147.00	956
112.00	327	125.00	304	136.00	431	148.00	1950
112.90	51	127.00	36405	137.05	593	149.05	484
113.10	66	128.00	2917	138.10	111	150.10	76
116.00	453	129.00	14257	139.00	62	151.05	347
117.00	7383	130.00	1238	140.00	153	151.90	207
118.00	556	131.00	212	141.00	1503	152.95	626
119.05	17	132.00	71	142.00	543	153.95	480
120.05	213	132.15	106	143.05	474	155.05	926
122.00	680	133.10	56	145.00	62	156.00	1594
123.00	827	133.95	364	146.00	318	157.05	305

Average of 2.201 to 2.212 min.: F92479.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.00	320	171.00	208	181.00	769	191.00	252
159.05	296	172.00	326	182.10	116	192.00	987
160.05	570	173.05	412	182.80	52	193.05	1167
161.00	946	173.90	191	183.15	127	194.05	260
161.95	272	174.05	635	184.00	230	195.05	12
163.10	192	175.05	1567	185.00	1404	196.00	2335
165.00	344	176.05	495	186.00	11177	198.00	83637
166.00	504	177.00	687	187.05	3063	199.00	5517
167.00	3826	177.95	305	188.05	295	200.00	533
168.05	1848	179.00	2738	189.00	663	201.50	396
169.05	359	180.00	1938	190.10	51	201.70	98

Average of 2.201 to 2.212 min.: F92479.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
202.00	89	214.95	208	227.00	5058	240.00	76
203.05	651	216.00	515	228.05	716	240.80	77
204.00	3024	217.00	5461	229.00	973	240.95	198
205.00	5448	218.00	865	230.00	77	242.05	773
206.00	22298	219.00	55	231.05	571	243.00	715
207.05	2480	221.00	3897	233.00	92	244.00	9309
208.00	481	221.70	309	234.05	304	245.05	1306
209.05	242	223.00	1388	235.05	390	246.00	1774
210.10	218	224.00	12454	235.95	278	246.90	326
210.95	958	225.00	3105	237.05	377	248.95	420
213.00	55	226.05	372	239.00	217	251.90	60

Average of 2.201 to 2.212 min.: F92479.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.00	257	273.00	1384	285.05	280	316.00	377
255.00	49824	274.00	3469	292.95	507	320.85	113
256.00	7688	275.00	18232	293.95	115	323.00	1797
257.05	652	276.00	2428	296.00	5498	324.00	329

258.00	2400	276.95	1507	296.95	728	326.90	431
258.95	443	277.95	254	301.00	61	328.05	158
263.90	52	281.00	16	303.00	709	332.05	143
265.00	1161	282.00	115	304.05	136	333.00	144
265.85	252	282.80	68	307.90	59	334.00	1244
271.00	55	283.05	178	313.95	251	335.00	357
272.00	185	283.90	80	314.95	638	341.00	218

Average of 2.201 to 2.212 min.: F92479.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.00	387	401.95	360				
352.05	548	403.00	499				
353.00	395	403.95	166				
354.00	441	421.05	450				
364.95	2054	422.00	442				
365.80	57	423.00	2879				
366.00	270	424.00	561				
371.00	68	441.00	11098				
371.95	963	442.00	66853				
373.05	194	443.00	13368				
383.00	165	443.95	1165				

8.5.6
8

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF4330\F92488.D

Vial: 1

Acq On : 20 Oct 2010 12:55 pm

Operator: ninap

Sample : dftpp

Inst : MSF

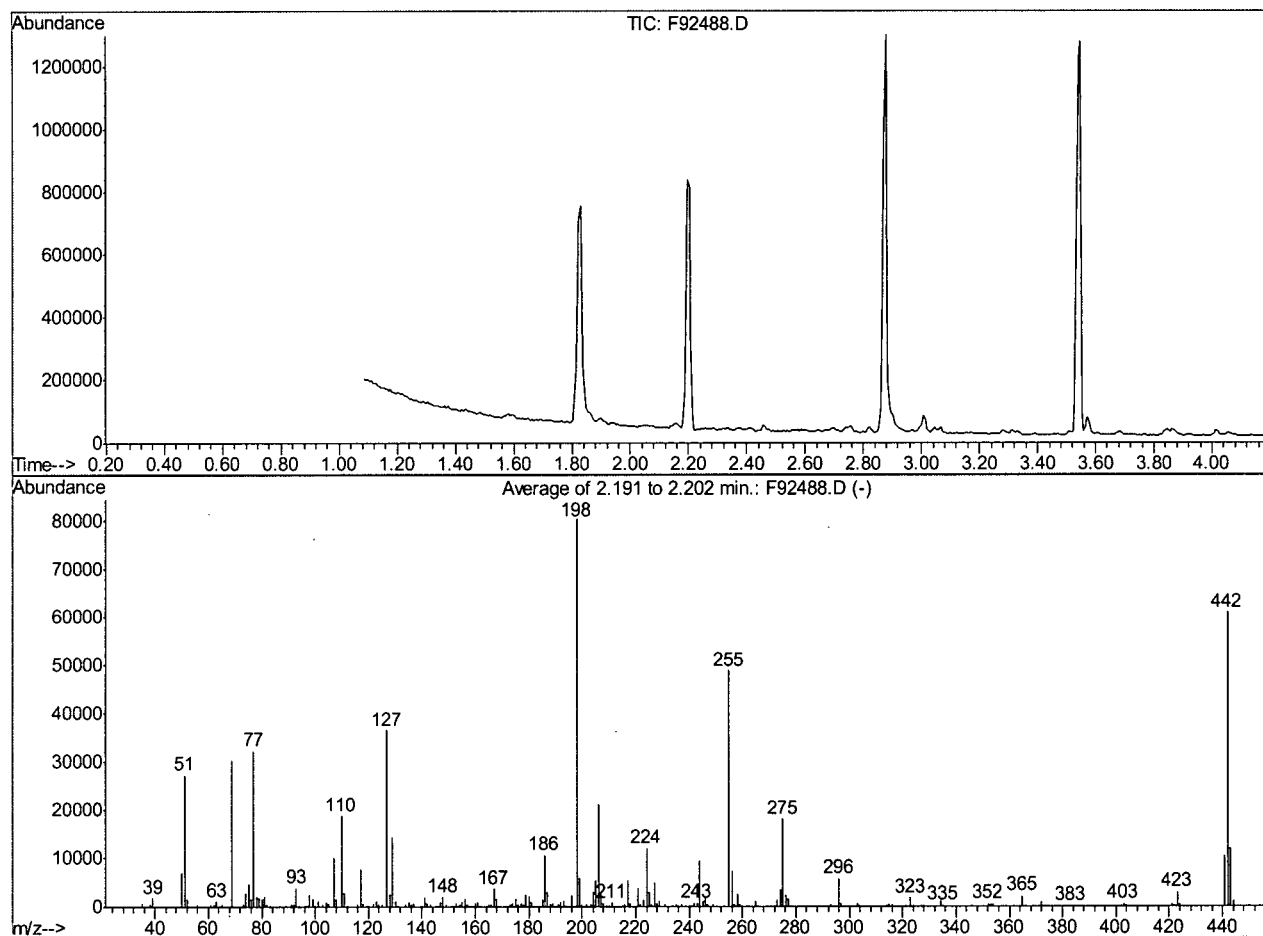
Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um



AutoFind: Scans 208, 209, 210; Background Corrected with Scan 202

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	33.8	27148	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	37.5	30180	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	45.2	36352	PASS
197	198	0.00	1	0.2	151	PASS
198	198	100	100	100.0	80400	PASS
199	198	5	9	7.3	5834	PASS
275	198	10	30	22.5	18062	PASS
365	198	1	100	2.6	2129	PASS
441	443	0.10	100	87.2	10242	PASS
442	198	40	100	75.7	60893	PASS
443	442	17	23	19.3	11747	PASS

Average of 2.191 to 2.202 min.: F92488.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	809	64.05	213	80.05	1526	95.10	111
38.10	496	65.05	544	81.05	2164	96.00	154
39.10	1816	69.00	30180	82.00	423	96.95	207
50.10	6902	72.00	56	83.05	353	98.00	2461
51.05	27148	73.15	364	87.00	326	99.00	1592
52.10	1553	74.10	2810	87.95	92	99.95	202
53.10	50	75.05	4557	89.05	125	101.00	1264
56.05	469	76.10	1533	91.00	412	103.00	440
61.05	362	77.05	32088	92.05	558	104.00	870
62.05	404	78.10	2165	93.00	3816	105.00	751
63.10	1069	79.05	1805	94.05	343	106.00	83

Average of 2.191 to 2.202 min.: F92488.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	9924	123.00	1102	135.05	922	146.05	339
108.05	1688	123.95	491	136.05	425	147.00	863
110.00	18779	125.05	517	137.05	669	148.00	2074
111.05	2718	127.00	36352	137.80	73	149.00	361
112.00	333	128.00	2561	138.90	60	150.00	60
116.00	431	129.00	14122	140.00	151	151.10	308
117.00	7623	130.00	1203	141.00	1762	152.05	211
118.00	594	130.90	68	142.00	622	153.00	592
119.05	162	131.05	242	143.05	389	154.05	367
120.10	158	132.10	81	144.05	118	155.00	1018
121.95	660	134.00	435	145.10	127	156.05	1605

Average of 2.191 to 2.202 min.: F92488.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	408	169.00	340	180.00	2074	191.05	410
157.95	355	170.80	53	181.00	881	192.00	901
159.00	322	171.05	144	182.00	124	193.05	1168
160.05	589	172.00	303	183.05	116	194.10	211
161.00	945	173.05	445	184.00	260	195.00	77
162.00	189	174.00	728	185.10	1408	196.05	2320
163.05	102	175.05	1678	186.00	10548	196.70	151
165.00	515	175.95	482	187.00	2910	198.00	80400
165.95	549	177.00	768	188.10	391	199.00	5834
167.00	3642	178.05	376	188.95	708	199.95	519
168.05	1707	179.00	2604	190.10	51	201.50	460

Average of 2.191 to 2.202 min.: F92488.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.00	547	217.00	5366	230.00	53	244.05	9403
204.00	3067	217.95	696	231.05	491	245.00	1240
205.00	5334	221.00	3803	233.90	300	246.00	1937
206.05	21154	221.70	371	235.00	385	246.95	389
207.05	2835	223.05	1330	236.00	161	249.00	425
208.00	677	224.00	11832	237.00	452	252.00	62
209.00	244	225.05	2992	239.05	227	253.05	178
210.10	257	226.05	361	240.00	125	255.00	48885
211.05	899	227.00	4769	241.05	310	256.00	7191
214.95	208	228.00	701	241.95	652	257.05	520
216.00	511	229.00	1098	243.05	748	258.00	2565

Average of 2.191 to 2.202 min.: F92488.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
259.00	443	277.00	1529	296.00	5578	327.00	294
260.05	155	278.00	196	296.95	724	328.05	155
264.00	63	280.90	52	302.00	64	333.00	68
264.95	1181	282.00	61	303.00	647	334.05	1205

265.95	139	282.95	122	304.00	152	335.05	286
271.10	76	284.00	165	313.95	325	341.10	75
272.05	146	285.10	321	315.00	570	345.95	355
273.00	1381	292.00	54	315.95	374	352.05	499
274.00	3418	292.95	409	320.95	206	353.00	422
275.00	18062	294.00	71	323.00	1817	353.95	518
276.05	2301	294.80	50	324.00	300	355.10	52

Average of 2.191 to 2.202 min.: F92488.D

dftpp

Modified:subtracted

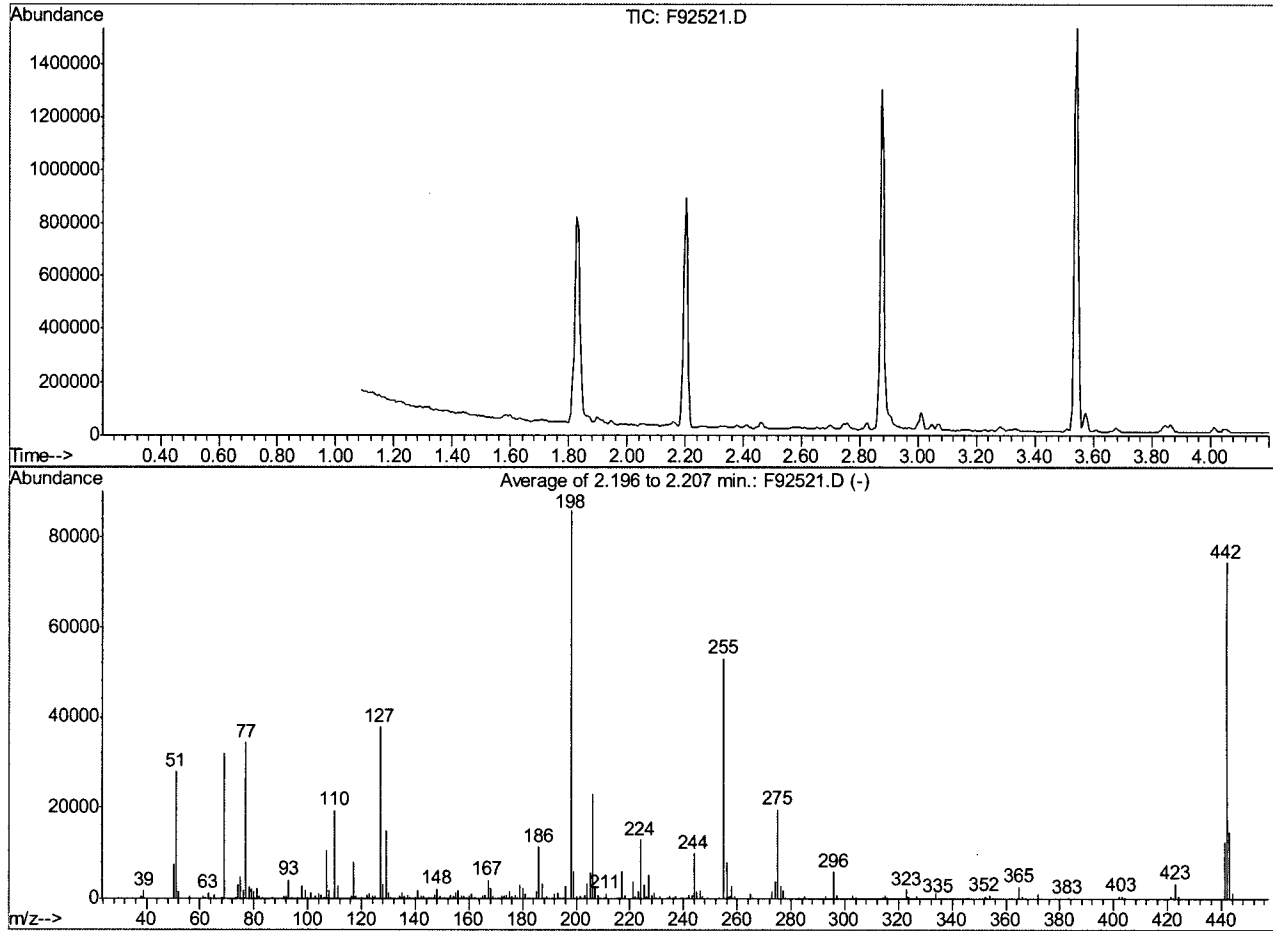
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.00	2129	421.90	336				
366.00	250	423.00	2803				
371.05	147	424.00	577				
372.00	911	441.00	10242				
373.00	201	442.00	60893				
382.95	196	443.00	11747				
390.00	61	444.00	1162				
402.05	354						
403.00	471						
404.00	144						
421.00	466						

8.5.7

8

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF4333\F92521.D Vial: 1
Acq On : 21 Oct 2010 3:14 pm Operator: ninap
Sample : dftpp Inst : MSF
Misc : op46122,ef4333 Multiplr: 1.00
MS Integration Params: LSCINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um



AutoFind: Scans 209, 210, 211; Background Corrected with Scan 203

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	30	60	32.6	27972	PASS
68	69	0.00	2	0.7	213	PASS
69	198	0.00	100	37.2	31978	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	44.1	37829	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	85850	PASS
199	198	5	9	7.1	6057	PASS
275	198	10	30	22.9	19675	PASS
365	198	1	100	3.0	2572	PASS
441	443	0.10	100	84.0	12286	PASS
442	198	40	100	86.7	74437	PASS
443	442	17	23	19.7	14633	PASS

F92521.D DFTPPF.M Fri Oct 22 07:24:21 2010 GCMS3A

Average of 2.196 to 2.207 min.: F92521.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	25	65.10	634	81.00	2208	99.00	1841
38.10	398	68.10	213	82.00	486	100.05	264
39.10	1671	69.00	31978	83.05	275	101.05	1284
50.10	7516	73.05	249	87.00	362	103.05	464
51.05	27972	74.05	2969	91.00	489	104.05	922
52.10	1572	75.05	4674	92.05	594	105.00	802
56.05	592	76.10	1639	93.00	4013	106.00	244
61.05	436	77.05	34325	94.10	315	107.00	10382
62.10	331	78.10	2412	95.10	98	108.05	1775
63.10	1189	79.00	2029	96.10	204	110.00	19384
64.05	212	80.05	1550	98.00	2648	111.05	2736

Average of 2.196 to 2.207 min.: F92521.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
112.05	106	127.00	37829	137.90	134	149.05	465
115.00	57	128.05	2973	139.10	57	150.10	66
116.05	627	129.00	14936	139.95	144	151.05	207
117.00	7939	130.00	1365	141.05	1776	151.30	84
118.00	556	130.95	328	142.05	579	152.05	38
120.05	153	132.00	118	143.00	454	153.05	629
120.30	60	132.90	71	144.10	61	154.05	380
122.00	679	134.00	398	145.05	236	155.05	1264
123.00	987	135.00	1196	146.00	351	156.10	1721
123.95	476	136.05	443	147.05	849	157.05	417
125.00	470	137.10	657	148.00	2111	158.00	383

Average of 2.196 to 2.207 min.: F92521.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.05	295	169.05	401	179.00	2931	190.00	53
160.00	556	170.10	124	180.00	2137	191.05	367
161.00	958	170.70	59	181.05	947	192.00	1075
162.00	262	171.00	200	182.05	185	193.00	1330
162.90	52	172.05	395	183.10	69	194.05	241
163.20	51	173.05	482	184.05	277	195.15	273
164.10	54	174.05	798	185.05	1429	195.95	2635
165.00	564	175.10	1590	186.05	11313	198.00	85850
166.00	636	176.05	567	187.05	3260	199.00	6057
167.00	3978	177.00	784	188.05	306	200.00	471
168.00	2129	178.05	190	189.00	587	201.20	105

Average of 2.196 to 2.207 min.: F92521.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.60	421	212.10	93	225.05	3024	237.05	490
202.95	657	215.05	284	226.15	394	239.05	202
204.05	3181	215.90	344	227.00	5129	240.05	144
205.05	5614	216.10	239	228.00	806	240.95	309
206.10	23154	217.00	5920	228.95	1205	242.05	758
207.05	2843	218.00	746	230.00	146	243.05	771
207.95	798	221.05	3724	231.05	445	244.05	9866
209.05	327	221.80	231	232.00	50	245.05	1429
210.10	319	222.00	544	234.00	298	246.00	1719
211.05	1031	223.05	1607	234.95	416	247.00	385
211.80	107	224.00	12805	235.95	230	248.90	323

Average of 2.196 to 2.207 min.: F92521.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.00	52	265.95	242	283.00	146	314.05	274
253.10	241	270.90	68	283.95	131	314.95	723
255.00	53093	271.80	50	285.05	403	316.00	338
256.00	7968	272.10	58	292.10	57	321.05	186

257.05	609	273.00	1580	293.05	391	323.05	1894
258.00	2785	274.00	3649	295.00	60	324.00	494
258.95	447	275.00	19675	296.00	5840	326.90	478
259.90	52	276.00	2788	297.00	819	328.05	193
260.10	50	277.00	1821	302.10	53	332.00	125
264.10	52	278.05	353	303.05	783	332.95	113
265.00	1123	281.00	51	304.00	196	334.05	1265

Average of 2.196 to 2.207 min.: F92521.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
335.00	306	373.05	130	424.05	581		
341.00	241	382.90	57	425.10	50		
345.95	340	383.05	229	441.00	12286		
352.05	555	383.90	69	442.00	74437		
352.95	361	390.00	68	443.00	14633		
354.05	665	401.95	415	443.95	1296		
355.10	62	403.00	564				
364.95	2572	404.00	157				
365.90	388	420.95	445				
371.00	65	422.00	363				
372.00	1008	423.00	3272				

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P576.D
 Acq On : 25 Oct 2010 12:53 pm
 Operator : kristis
 Sample : cc01-50
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 25 14:31:53 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:30:48 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	71375	40.00	ppb	0.00
24) Naphthalene-d8	9.399	136	258862	40.00	ppb	0.00
47) Acenaphthene-d10	12.881	164	138845	40.00	ppb	0.00
69) Phenanthrene-d10	15.796	188	205434	40.00	ppb	0.00
83) Chrysene-d12	19.963	240	180926	40.00	ppb	0.00
92) Perylene-d12	21.802	264	99409	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	71375	40.00	ppb	0.00
104) Acenaphthene-d10a	12.881	164	138845	40.00	ppb	0.00
106) Chrysene-d12a	19.963	240	180926	40.00	ppb	0.00
108) Acenaphthene-d10b	12.881	164	138845	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.997	112	108043	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
8) Phenol-d5	6.570	99	148913	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
25) Nitrobenzene-d5	8.099	82	134468	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
51) 2-Fluorobiphenyl	11.592	172	242329	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
73) 2,4,6-Tribromophenol	14.480	330	40284	50.14	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.28%	
85) Terphenyl-d14	18.540	244	175101	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.638	88	37678	50.00	ppb	100
3) Pyridine	3.077	79	112322	50.00	ppb	100
4) N-Nitrosodimethylamine	3.072	42	59556	50.00	ppb	100
6) Indene	7.527	116	164717	50.00	ppb	100
7) Cumene	5.724	105	229589	50.00	ppb	100
9) Phenol	6.591	94	159127	50.00	ppb	100
10) Aniline	6.543	93	149684	50.36	ppb	98
11) bis(2-Chloroethyl)ether	6.671	93	116934	50.00	ppb	100
12) 2-Chlorophenol	6.730	128	122384	50.00	ppb	100
13) Decane	6.816	43	138622	50.00	ppb	100
14) 1,3-Dichlorobenzene	6.955	146	134791	50.00	ppb	100
15) 1,4-Dichlorobenzene	7.051	146	135903	50.00	ppb	100
16) Benzyl alcohol	7.366	108	75391	50.00	ppb	100
17) 1,2-Dichlorobenzene	7.383	146	134981	50.00	ppb	100
18) Acetophenone	7.832	105	151653	50.00	ppb	100
19) 2-Methylphenol	7.639	108	107916	50.00	ppb	100
20) 2,2'-oxybis(1-Chloropr...	7.639	121	35027	50.00	ppb	100
21) 3&4-Methylphenol	7.917	108	112141	50.00	ppb	100
22) n-Nitroso-di-n-propyla...	7.907	70	88531	50.00	ppb	100
23) Hexachloroethane	7.923	201	47075	50.00	ppb	100
26) Nitrobenzene	8.131	123	58899	50.00	ppb	100
27) Quinoline	10.126	129	199589	50.00	ppb	100
28) Isophorone	8.581	82	222673	50.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P576.D
 Acq On : 25 Oct 2010 12:53 pm
 Operator : kristis
 Sample : cc01-50
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 25 14:31:53 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:30:48 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.736	139	66998	50.00	ppb	100
30) 2,4-Dimethylphenol	8.896	107	105044	50.00	ppb	100
31) Benzoic acid	9.206	105	51764	50.00	ppb	100
32) bis(2-Chloroethoxy)met...	9.062	93	143474	50.00	ppb	100
33) 2,4-Dichlorophenol	9.212	162	95270	50.00	ppb	100
34) 2,6-Dichlorophenol	9.640	162	94023	50.00	ppb	100
35) 1,3,5-Trichlorobenzene	8.736	180	105219	50.00	ppb	100
36) 1,2,4-Trichlorobenzene	9.335	180	103482	50.00	ppb	100
37) 1,2,3-Trichlorobenzene	9.800	180	101859	50.00	ppb	100
38) Naphthalene	9.436	128	339995	50.00	ppb	100
39) 4-Chloroaniline	9.640	127	138348	50.00	ppb	100
40) 2,3-Dichloroaniline	11.442	161	110748	50.00	ppb	100
41) Caprolactam	10.308	55	54677	50.00	ppb	100
42) Hexachlorobutadiene	9.816	225	60815	50.00	ppb	100
43) 4-Chloro-3-methylphenol	10.683	107	92971	50.00	ppb	100
44) 2-Methylnaphthalene	10.795	142	226255	50.00	ppb	100
45) 1-Methylnaphthalene	10.998	142	206746	50.00	ppb	100
46) Dimethylnaphthalene	12.041	156	174843	50.00	ppb	100
48) Hexachlorocyclopentadiene	11.250	237	100734	100.00	ppb	100
49) 2,4,6-Trichlorophenol	11.453	196	65804	50.00	ppb	100
50) 2,4,5-Trichlorophenol	11.549	196	71704	50.00	ppb	100
52) 2-Chloronaphthalene	11.742	162	211258	50.00	ppb	100
53) Biphenyl	11.752	154	260392	50.00	ppb	100
54) 2-Nitroaniline	12.068	65	71061	50.00	ppb	100
55) Dimethylphthalate	12.533	163	215660	50.00	ppb	100
56) Acenaphthylene	12.565	152	327217	50.00	ppb	100
57) 2,6-Dinitrotoluene	12.651	165	48009	50.00	ppb	100
58) 3-Nitroaniline	12.908	138	59838	50.00	ppb	100
59) Acenaphthene	12.940	153	206873	50.00	ppb	100
60) 2,4-Dinitrophenol	13.127	184	35514	100.00	ppb	100
61) 4-Nitrophenol	13.378	109	30563	52.77	ppb	99
62) Dibenzofuran	13.266	168	285732	50.00	ppb	100
63) 2,4-Dinitrotoluene	13.426	165	65015	50.00	ppb	100
64) 2,3,4,6-Tetrachlorophenol	13.640	232	55525	50.00	ppb	100
65) Diethylphthalate	13.956	149	240835	50.00	ppb	100
66) Fluorene	13.951	166	234184	50.00	ppb	100
67) 4-Chlorophenyl-phenyle...	13.999	204	101310	50.00	ppb	100
68) 4-Nitroaniline	14.143	138	58561	50.00	ppb	100
70) 4,6-Dinitro-2-methylph...	14.229	198	33130	50.00	ppb	100
71) n-Nitrosodiphenylamine	14.266	169	153730	50.00	ppb	100
72) 1,2-Diphenylhydrazine	14.304	77	269593	50.00	ppb	100
74) 4-Bromophenyl-phenylether	14.956	248	64117	50.00	ppb	100
75) Hexachlorobenzene	15.208	284	77427	50.00	ppb	100
76) Pentachlorophenol	15.603	266	110679	100.00	ppb	100
77) Phenanthrene	15.844	178	277595	50.00	ppb	100
78) Anthracene	15.930	178	269408	50.00	ppb	100
79) Carbazole	16.288	167	271346	50.00	ppb	100
80) Di-n-butylphthalate	17.090	149	372188	50.00	ppb	100
81) Fluoranthene	17.909	202	314956	50.00	ppb	100
82) Octadecane	15.758	57	152729	50.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P576.D
Acq On : 25 Oct 2010 12:53 pm
Operator : kristis
Sample : cc01-50
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 25 14:31:53 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:30:48 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.240	202	311776	50.00	ppb	100
86) Butylbenzylphthalate	19.305	149	151393	50.00	ppb	100
87) Butyl stearate	19.363	56	102950	50.00	ppb	100
88) Benzo[a]anthracene	19.941	228	239153	50.00	ppb	100
89) 3,3'-Dichlorobenzidine	19.946	252	93566	50.00	ppb	100
90) Chrysene	19.995	228	210650	50.00	ppb	100
91) bis(2-Ethylhexyl)phtha...	20.107	149	162030	50.00	ppb	100
93) Di-n-octylphthalate	20.850	149	275083	50.00	ppb	100
94) Benzo[b]fluoranthene	21.300	252	199703	50.00	ppb	100
95) Benzo[k]fluoranthene	21.337	252	168131	50.00	ppb	100
96) Benzo[a]pyrene	21.728	252	157539	50.00	ppb	100
97) Indeno[1,2,3-cd]pyrene	23.525	276	126888	50.00	ppb	100
98) Dibenz(a,h)acridine	23.124	279	103832	50.00	ppb	100
99) Dibenz[a,h]anthracene	23.551	278	93323	50.00	ppb	100
100) 7,12-Dimethylbenz(a)an...	21.321	256	73730	50.00	ppb	100
101) Benzo[g,h,i]perylene	24.011	276	98856	50.00	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P577.D
 Acq On : 25 Oct 2010 1:26 pm
 Operator : kristis
 Sample : ic27-100
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:59:44 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:32:03 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.024	152	81432	40.00	ppb	0.00
24) Naphthalene-d8	9.404	136	297802	40.00	ppb	0.00
47) Acenaphthene-d10	12.886	164	156122	40.00	ppb	0.00
69) Phenanthrene-d10	15.801	188	206666	40.00	ppb	0.00
83) Chrysene-d12	19.968	240	190870	40.00	ppb	0.00
92) Perylene-d12	21.808	264	94107	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.024	152	81432	40.00	ppb	0.00
104) Acenaphthene-d10a	12.886	164	156122	40.00	ppb	0.00
106) Chrysene-d12a	19.968	240	190870	40.00	ppb	0.00
108) Acenaphthene-d10b	12.886	164	156122	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.992	112	254611	103.28	ppb	0.00
Spiked Amount 50.000			Recovery	=	206.56%	
8) Phenol-d5	6.580	99	357455	105.20	ppb	0.01
Spiked Amount 50.000			Recovery	=	210.40%	
25) Nitrobenzene-d5	8.110	82	320421	103.56	ppb	0.01
Spiked Amount 50.000			Recovery	=	207.12%	
51) 2-Fluorobiphenyl	11.603	172	576065	105.71	ppb	0.01
Spiked Amount 50.000			Recovery	=	211.42%	
73) 2,4,6-Tribromophenol	14.491	330	89692	110.66	ppb	0.01
Spiked Amount 50.000			Recovery	=	221.32%	
85) Terphenyl-d14	18.545	244	391963	106.09	ppb	0.00
Spiked Amount 50.000			Recovery	=	212.18%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.633	88	74988	87.22	ppb	94
3) Pyridine	3.066	79	258434	100.83	ppb	95
4) N-Nitrosodimethylamine	3.072	42	137923	101.49	ppb	94
6) Indene	7.527	116	381630	101.54	ppb	95
7) Cumene	5.724	105	541514	103.37	ppb	99
9) Phenol	6.602	94	363441	100.09	ppb	98
10) Aniline	6.543	93	341559	100.00	ppb	94
11) bis(2-Chloroethyl)ether	6.677	93	276328	103.56	ppb	92
12) 2-Chlorophenol	6.735	128	283241	101.43	ppb	97
13) Decane	6.821	43	336583	106.41	ppb	100
14) 1,3-Dichlorobenzene	6.960	146	310640	101.00	ppb	99
15) 1,4-Dichlorobenzene	7.051	146	322653	104.05	ppb	99
16) Benzyl alcohol	7.377	108	188593	109.63	ppb	87
17) 1,2-Dichlorobenzene	7.388	146	315028	102.28	ppb	99
18) Acetophenone	7.843	105	350746	101.36	ppb	92
19) 2-Methylphenol	7.650	108	247168	100.38	ppb	99
20) 2,2'-oxybis(1-Chloropr...	7.650	121	83428	104.38	ppb	# 85
21) 3&4-Methylphenol	7.928	108	278165	108.71	ppb	98
22) n-Nitroso-di-n-propyla...	7.928	70	215939	106.89	ppb	97
23) Hexachloroethane	7.928	201	117657	109.53	ppb	97
26) Nitrobenzene	8.147	123	135826	100.23	ppb	98
27) Quinoline	10.148	129	451563	98.33	ppb	98
28) Isophorone	8.602	82	494944	96.60	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P577.D
 Acq On : 25 Oct 2010 1:26 pm
 Operator : kristis
 Sample : ic27-100
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:59:44 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:32:03 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.746	139	159512	103.48	ppb	93
30) 2,4-Dimethylphenol	8.907	107	255311	105.64	ppb	98
31) Benzoic acid	9.319	105	166904	140.14	ppb	97
32) bis(2-Chloroethoxy)met...	9.073	93	337742	102.31	ppb	99
33) 2,4-Dichlorophenol	9.217	162	223855	102.12	ppb	97
34) 2,6-Dichlorophenol	9.650	162	224512	103.78	ppb	99
35) 1,3,5-Trichlorobenzene	8.746	180	250896	103.64	ppb	99
36) 1,2,4-Trichlorobenzene	9.340	180	247852	104.10	ppb	98
37) 1,2,3-Trichlorobenzene	9.805	180	245282	104.66	ppb	99
38) Naphthalene	9.447	128	799813	102.24	ppb	99
39) 4-Chloroaniline	9.650	127	319014	100.22	ppb	97
40) 2,3-Dichloroaniline	11.448	161	257905	101.21	ppb	99
41) Caprolactam	10.372	55	131425	104.47	ppb	98
42) Hexachlorobutadiene	9.822	225	148346	106.02	ppb	94
43) 4-Chloro-3-methylphenol	10.699	107	218310	102.06	ppb	97
44) 2-Methylnaphthalene	10.800	142	529913	101.79	ppb	99
45) 1-Methylnaphthalene	11.009	142	485337	102.03	ppb	99
46) Dimethylnaphthalene	12.052	156	404716	100.60	ppb	96
48) Hexachlorocyclopentadiene	11.255	237	256137	226.13	ppb	99
49) 2,4,6-Trichlorophenol	11.464	196	155909	105.35	ppb	99
50) 2,4,5-Trichlorophenol	11.560	196	163502	101.39	ppb	95
52) 2-Chloronaphthalene	11.752	162	507149	106.75	ppb	99
53) Biphenyl	11.763	154	637082	108.79	ppb	100
54) 2-Nitroaniline	12.084	65	163417	102.26	ppb	99
55) Dimethylphthalate	12.544	163	491082	101.26	ppb	100
56) Acenaphthylene	12.576	152	754030	102.47	ppb	100
57) 2,6-Dinitrotoluene	12.667	165	106798	98.92	ppb	98
58) 3-Nitroaniline	12.924	138	140340	104.29	ppb	96
59) Acenaphthene	12.950	153	481645	103.53	ppb	98
60) 2,4-Dinitrophenol	13.138	184	109516	274.25	ppb	# 95
61) 4-Nitrophenol	13.384	109	72700	105.77	ppb	99
62) Dibenzofuran	13.277	168	663851	103.31	ppb	100
63) 2,4-Dinitrotoluene	13.443	165	148053	101.26	ppb	95
64) 2,3,4,6-Tetrachlorophenol	13.651	232	133551	106.95	ppb	99
65) Diethylphthalate	13.972	149	569717	105.19	ppb	98
66) Fluorene	13.961	166	548107	104.07	ppb	98
67) 4-Chlorophenyl-phenyle...	14.009	204	231606	101.66	ppb	98
68) 4-Nitroaniline	14.170	138	133102	101.07	ppb	97
70) 4,6-Dinitro-2-methylph...	14.250	198	86978	130.49	ppb	94
71) n-Nitrosodiphenylamine	14.282	169	347228	112.26	ppb	98
72) 1,2-Diphenylhydrazine	14.320	77	673866	124.23	ppb	99
74) 4-Bromophenyl-phenylether	14.962	248	144858	112.29	ppb	96
75) Hexachlorobenzene	15.218	284	177354	113.85	ppb	98
76) Pentachlorophenol	15.614	266	213132	191.42	ppb	95
77) Phenanthrene	15.855	178	591060	105.83	ppb	99
78) Anthracene	15.940	178	593077	109.41	ppb	99
79) Carbazole	16.299	167	582638	106.72	ppb	99
80) Di-n-butylphthalate	17.101	149	827873	110.55	ppb	99
81) Fluoranthene	17.914	202	702851	110.91	ppb	99
82) Octadecane	15.769	57	356753	116.10	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P577.D
 Acq On : 25 Oct 2010 1:26 pm
 Operator : kristis
 Sample : ic27-100
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:59:44 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:32:03 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.246	202	680155	103.39	ppb	98
86) Butylbenzylphthalate	19.310	149	331590	103.81	ppb	97
87) Butyl stearate	19.369	56	218335	100.51	ppb	98
88) Benzo[a]anthracene	19.946	228	550331	109.06	ppb	99
89) 3,3'-Dichlorobenzidine	19.952	252	226004	114.48	ppb	97
90) Chrysene	20.005	228	442241	99.50	ppb	99
91) bis(2-Ethylhexyl)phtha...	20.112	149	320405	93.72	ppb	98
93) Di-n-octylphthalate	20.861	149	569028	109.26	ppb	98
94) Benzo[b]fluoranthene	21.316	252	432141m	114.29	ppb	
95) Benzo[k]fluoranthene	21.353	252	339396m	106.62	ppb	
96) Benzo[a]pyrene	21.738	252	322427	108.10	ppb	98
97) Indeno[1,2,3-cd]pyrene	23.551	276	264168	109.96	ppb	93
98) Dibenz(a,h)acridine	23.140	279	227772	115.86	ppb	98
99) Dibenz[a,h]anthracene	23.578	278	200578	113.52	ppb	98
100) 7,12-Dimethylbenz(a)an...	21.332	256	165915	118.85	ppb	93
101) Benzo[g,h,i]perylene	24.049	276	201870	107.86	ppb	98

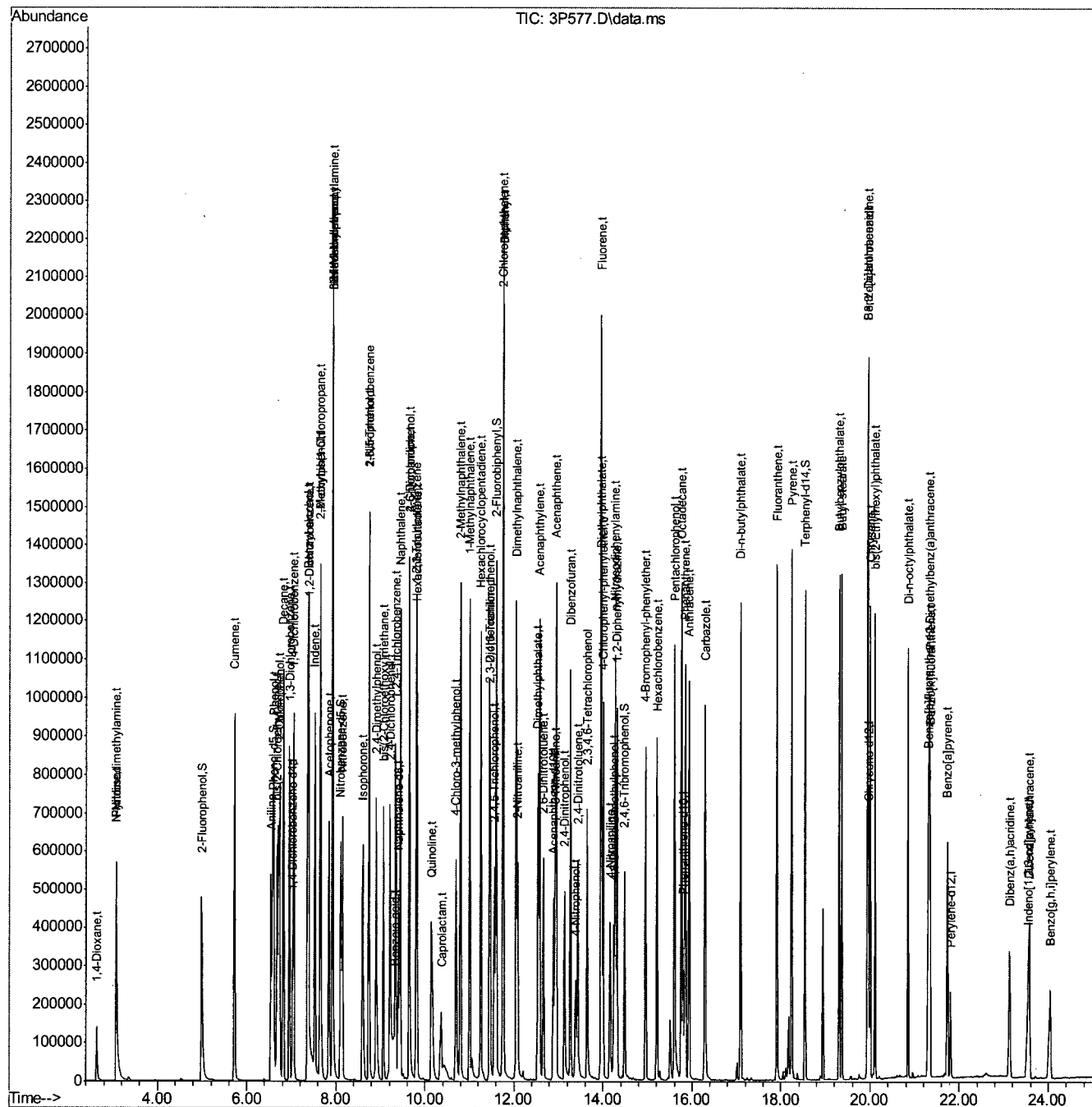
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.2
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P577.D
Acq On : 25 Oct 2010 1:26 pm
Operator : kristis
Sample : ic27-100
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:59:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:32:03 2010
Response via : Initial Calibration



M3P27.M Tue Oct 26 18:15:48 2010 RPT1

Page: 4

8.6.2

Manual Integration Approval Summary

Page 1 of 1

Sample Number: E3P27-IC27
Lab FileID: 3P577.D
Injection Time: 10/25/10 13:26

Method: EPA 625
Analyst approved: 10/28/10 18:47 Kristi Schollenberger
Supervisor approved: 10/29/10 09:20 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.32	Overlapping peak
Benzo(k)fluoranthene	207-08-9		21.35	Overlapping peak

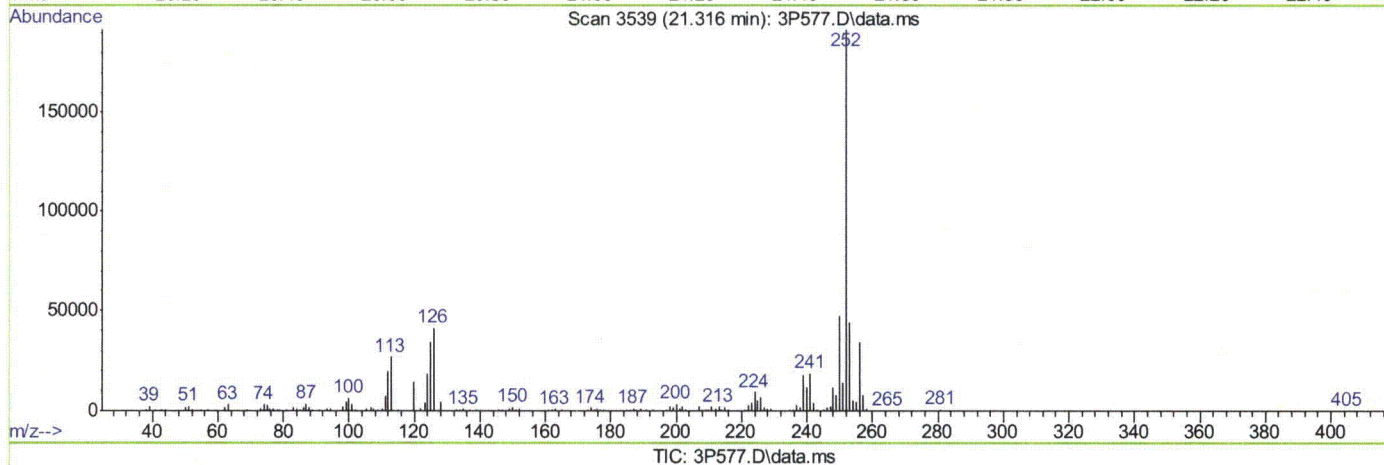
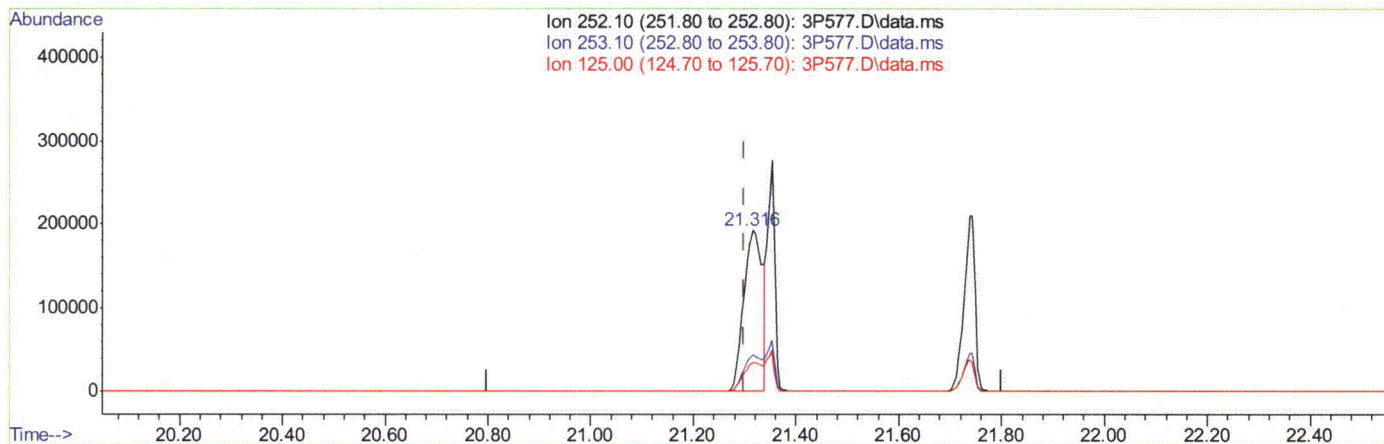
8.6.2.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P577.D
Acq On : 25 Oct 2010 1:26 pm
Operator : kristis
Sample : ic27-100
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 14:33:10 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:32:03 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.316min (+0.016) 127.23ppb

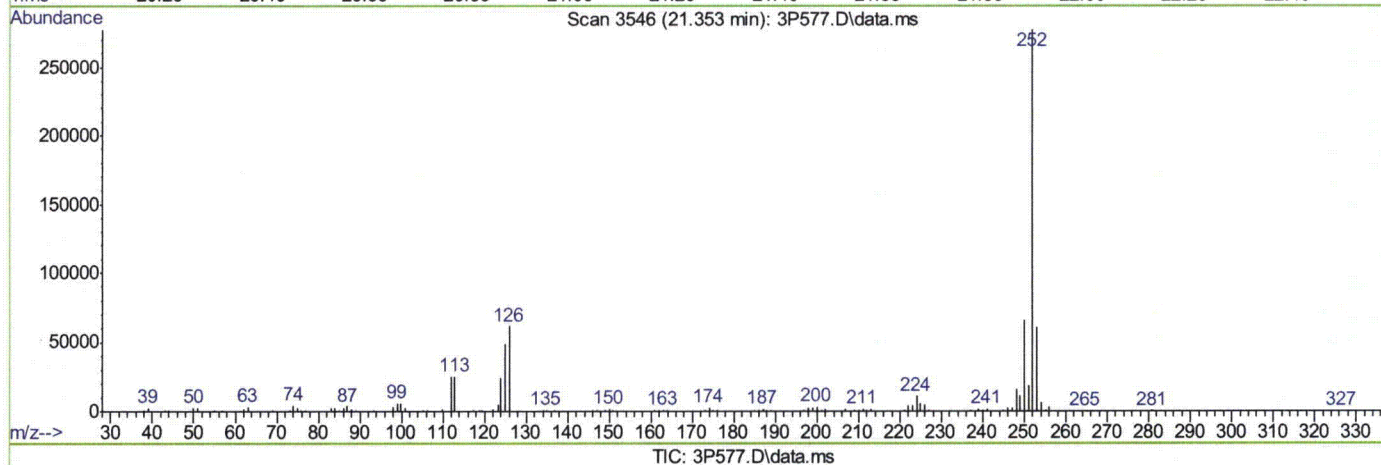
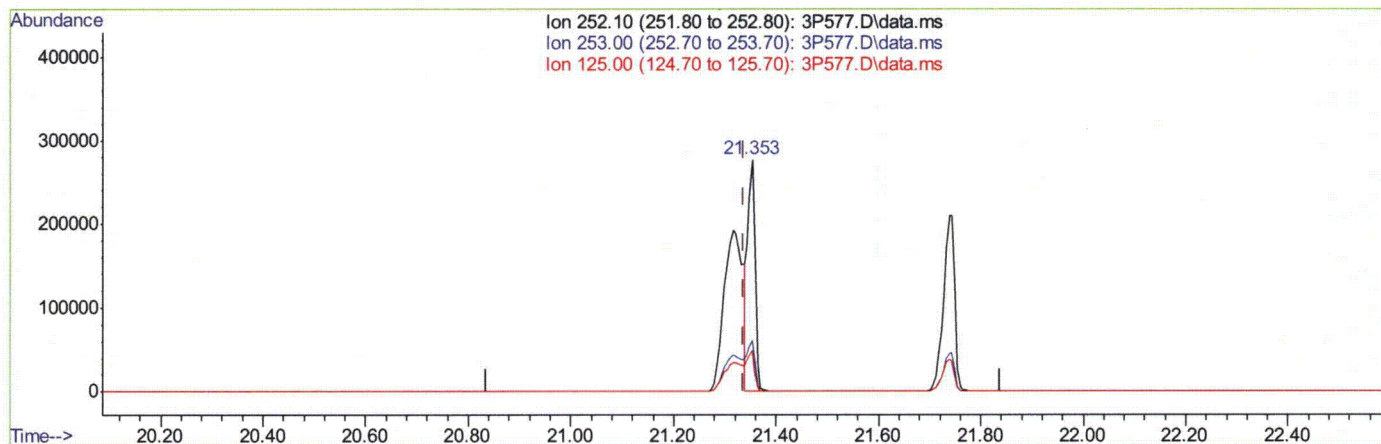
response 481060

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	21.28
125.00	15.70	16.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P577.D
Acq On : 25 Oct 2010 1:26 pm
Operator : kristis
Sample : ic27-100
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 14:33:10 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:32:03 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.353min (+0.016) 91.71ppb

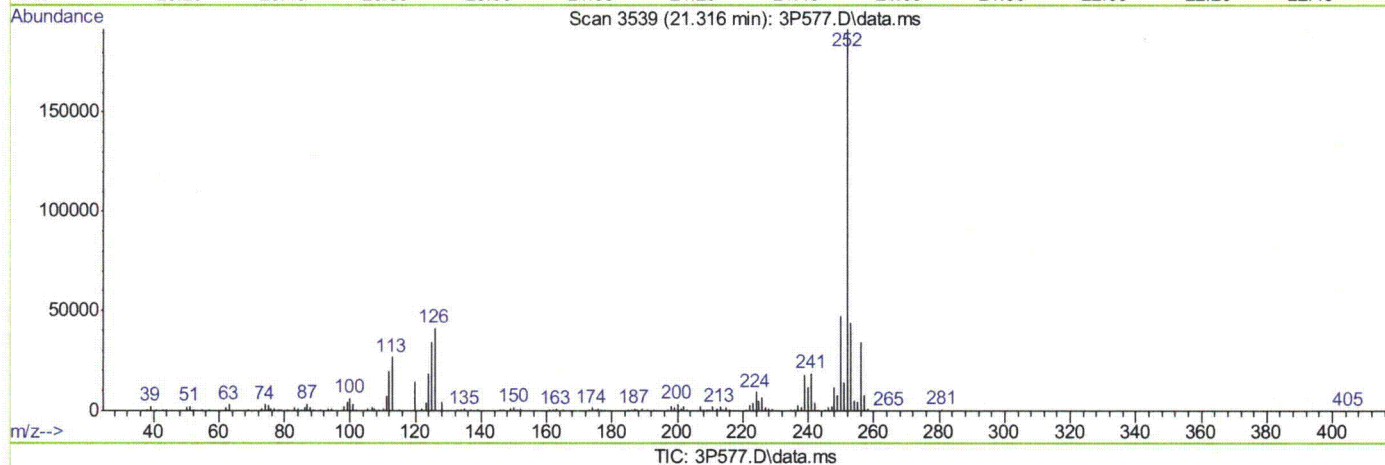
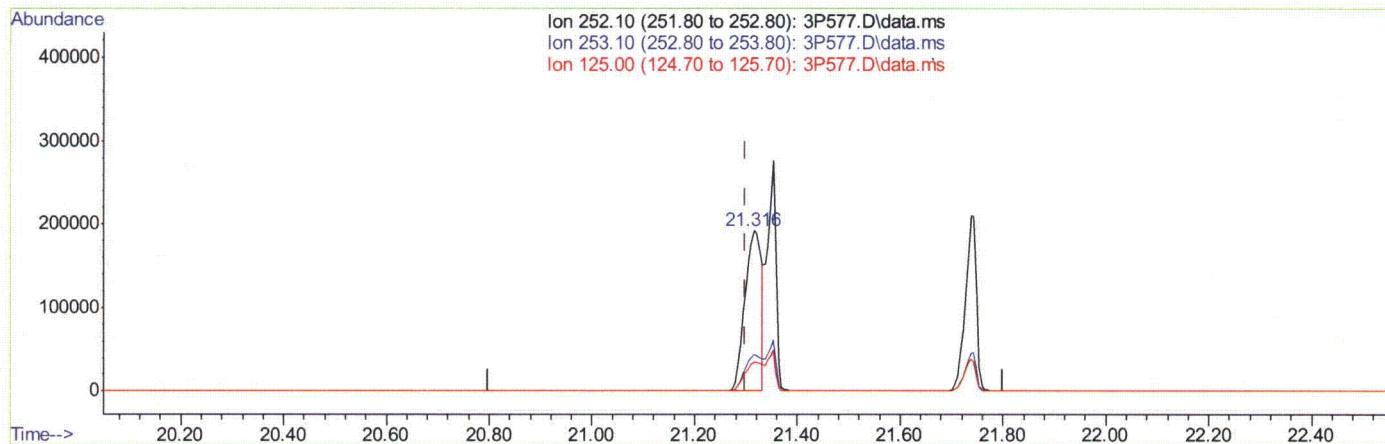
response 291923

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	20.86
125.00	14.40	16.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P577.D
Acq On : 25 Oct 2010 1:26 pm
Operator : kristis
Sample : ic27-100
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:59:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:32:03 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.316min (+0.016) 114.29ppb m

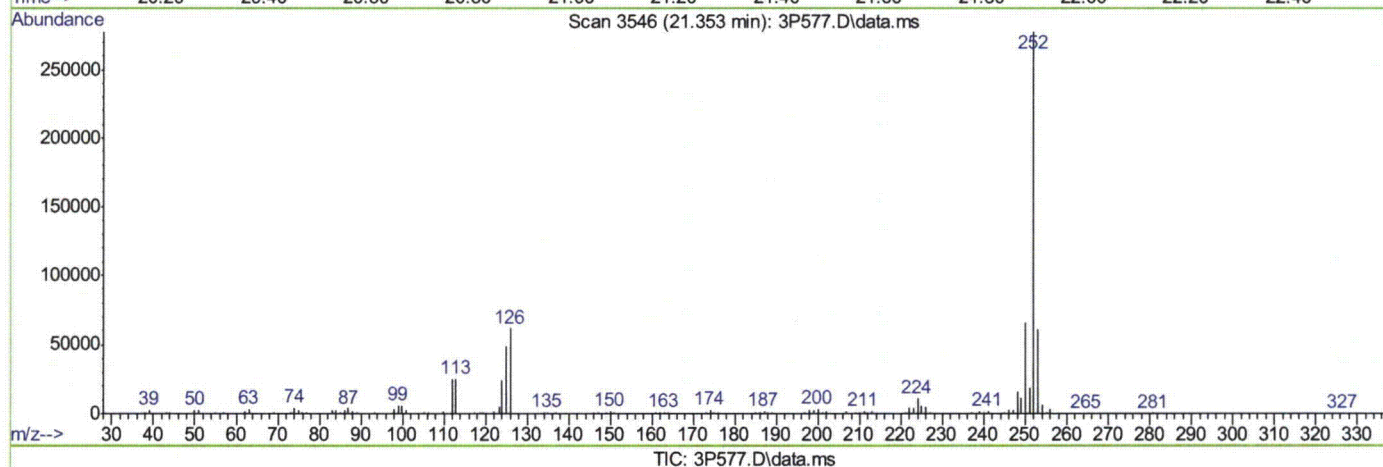
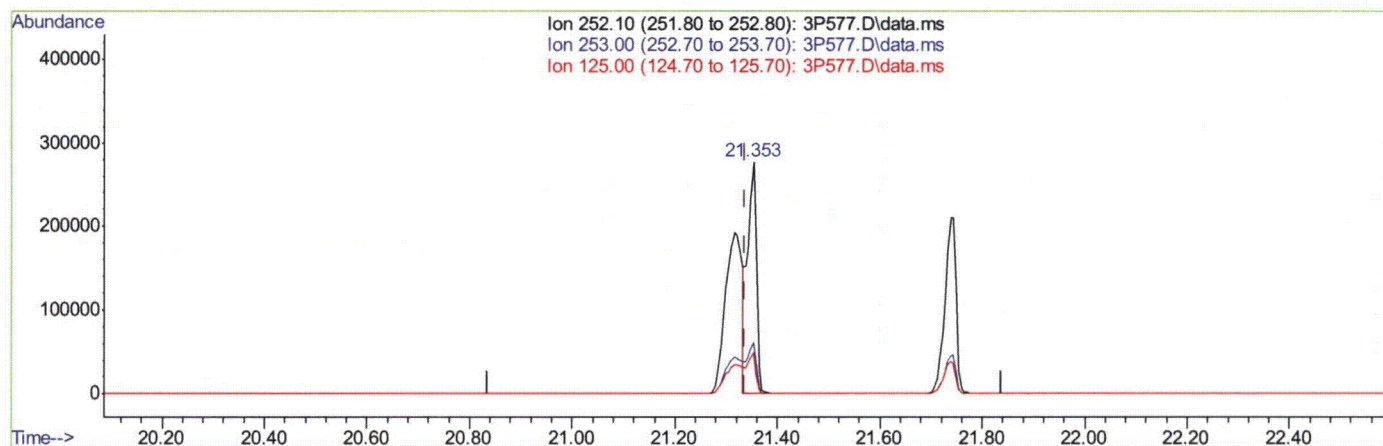
response 432141

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	22.83
125.00	15.70	17.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P577.D
Acq On : 25 Oct 2010 1:26 pm
Operator : kristis
Sample : ic27-100
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 25 16:59:44 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:32:03 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.353min (+0.016) 106.62ppb m

response 339396

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	22.05
125.00	14.40	17.57
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P578.D
 Acq On : 25 Oct 2010 1:56 pm
 Operator : kristis
 Sample : ic27-1
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 14:34:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:33:21 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	84601	40.00	ppb	0.00
24) Naphthalene-d8	9.393	136	312743	40.00	ppb	0.00
47) Acenaphthene-d10	12.875	164	159068	40.00	ppb	0.00
69) Phenanthrene-d10	15.796	188	258439	40.00	ppb	0.00
83) Chrysene-d12	19.957	240	231370	40.00	ppb	0.00
92) Perylene-d12	21.802	264	150126	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	84601	40.00	ppb	0.00
104) Acenaphthene-d10a	12.875	164	159068	40.00	ppb	0.00
106) Chrysene-d12a	19.957	240	231370	40.00	ppb	0.00
108) Acenaphthene-d10b	12.875	164	159068	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	6.655	99	3542	0.98	ppb	0.09
Spiked Amount 50.000			Recovery	=	1.96%	
25) Nitrobenzene-d5	8.137	82	3050	0.92	ppb	0.04
Spiked Amount 50.000			Recovery	=	1.84%	
51) 2-Fluorobiphenyl	11.597	172	6423	1.12	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.24%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	18.540	244	5381	1.17	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.34%	
Target Compounds						
2) 1,4-Dioxane	2.660	88	1007	1.20	ppb	Qvalue # 24
3) Pyridine	3.189	79	2575	0.96	ppb	81
4) N-Nitrosodimethylamine	3.125	42	1018	0.72	ppb	# 56
6) Indene	7.537	116	4463	1.13	ppb	89
7) Cumene	5.735	105	5689	1.03	ppb	95
10) Aniline	6.580	93	3808	1.07	ppb	77
11) bis(2-Chloroethyl)ether	6.687	93	2969	1.05	ppb	88
12) 2-Chlorophenol	6.751	128	2652	0.91	ppb	95
13) Decane	6.815	43	4095	1.21	ppb	85
14) 1,3-Dichlorobenzene	6.960	146	3637	1.13	ppb	91
15) 1,4-Dichlorobenzene	7.051	146	3987	1.21	ppb	95
17) 1,2-Dichlorobenzene	7.393	146	3483	1.08	ppb	95
18) Acetophenone	7.869	105	3457	0.96	ppb	90
19) 2-Methylphenol	7.693	108	2864	1.12	ppb	# 60
22) n-Nitroso-di-n-propyla...	7.917	70	2008	0.92	ppb	88
23) Hexachloroethane	7.928	201	1428	1.22	ppb	90
27) Quinoline	10.180	129	4502	0.94	ppb	85
28) Isophorone	8.591	82	5962	1.13	ppb	94
30) 2,4-Dimethylphenol	8.982	107	1893	0.73	ppb	# 71
32) bis(2-Chloroethoxy)met...	9.094	93	3735	1.07	ppb	78
34) 2,6-Dichlorophenol	9.693	162	2132	0.92	ppb	# 77
35) 1,3,5-Trichlorobenzene	8.746	180	2717	1.05	ppb	# 86
36) 1,2,4-Trichlorobenzene	9.335	180	2889	1.13	ppb	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P578.D
 Acq On : 25 Oct 2010 1:56 pm
 Operator : kristis
 Sample : ic27-1
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 14:34:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:33:21 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2,3-Trichlorobenzene	9.811	180	2253	0.89	ppb	# 77
38) Naphthalene	9.431	128	9744	1.17	ppb	95
39) 4-Chloroaniline	9.714	127	3558	1.06	ppb	73
40) 2,3-Dichloroaniline	11.463	161	2471	0.92	ppb	# 75
42) Hexachlorobutadiene	9.816	225	1630	1.08	ppb	83
43) 4-Chloro-3-methylphenol	10.768	107	1593	0.70	ppb	# 19
44) 2-Methylnaphthalene	10.811	142	5326	0.97	ppb	91
45) 1-Methylnaphthalene	11.009	142	5224	1.04	ppb	91
46) Dimethylnaphthalene	12.057	156	4477	1.06	ppb	95
48) Hexachlorocyclopentadiene	11.249	237	1048	0.85	ppb	89
49) 2,4,6-Trichlorophenol	11.490	196	1307	0.84	ppb	81
52) 2-Chloronaphthalene	11.758	162	5431	1.09	ppb	88
53) Biphenyl	11.763	154	6881	1.10	ppb	91
54) 2-Nitroaniline	12.127	65	1050	0.64	ppb	# 47
55) Dimethylphthalate	12.538	163	5714	1.15	ppb	94
56) Acenaphthylene	12.571	152	8787	1.16	ppb	98
57) 2,6-Dinitrotoluene	12.667	165	1155	1.06	ppb	# 61
59) Acenaphthene	12.934	153	5682	1.18	ppb	90
62) Dibenzofuran	13.282	168	7310	1.10	ppb	84
63) 2,4-Dinitrotoluene	13.474	165	1501	1.00	ppb	95
64) 2,3,4,6-Tetrachlorophenol	13.678	232	1093	0.83	ppb	# 22
65) Diethylphthalate	13.950	149	6050	1.07	ppb	100
66) Fluorene	13.956	166	5492	1.00	ppb	95
67) 4-Chlorophenyl-phenyle...	14.004	204	2640	1.13	ppb	96
71) n-Nitrosodiphenylamine	14.277	169	3832	0.93	ppb	89
72) 1,2-Diphenylhydrazine	14.309	77	7580	1.00	ppb	93
74) 4-Bromophenyl-phenylether	14.961	248	1483	0.87	ppb	93
75) Hexachlorobenzene	15.207	284	2018	0.97	ppb	93
77) Phenanthrene	15.833	178	8203	1.14	ppb	96
78) Anthracene	15.935	178	8541	1.20	ppb	92
79) Carbazole	16.331	167	7184	1.02	ppb	93
80) Di-n-butylphthalate.	17.090	149	11038	1.12	ppb	95
81) Fluoranthene	17.914	202	8451	1.01	ppb	94
82) Octadecane	15.758	57	4722	1.14	ppb	95
84) Pyrene	18.245	202	8655	1.07	ppb	97
86) Butylbenzylphthalate	19.304	149	4691	1.19	ppb	93
87) Butyl stearate	19.358	56	7002	2.65	ppb	# 87
88) Benzo[a]anthracene	19.936	228	7746	1.21	ppb	97
89) 3,3'-Dichlorobenzidine	19.968	252	2947	1.15	ppb	97
90) Chrysene	19.989	228	6461	1.20	ppb	92
91) bis(2-Ethylhexyl)phtha...	20.107	149	6003	1.50	ppb	99
93) Di-n-octylphthalate	20.845	149	9487	1.09	ppb	94
94) Benzo[b]fluoranthene	21.300	252	5538	0.81	ppb	93
95) Benzo[k]fluoranthene	21.326	252	5525	1.14	ppb	96
96) Benzo[a]pyrene	21.722	252	5147	1.04	ppb	90
97) Indeno[1,2,3-cd]pyrene	23.530	276	4048	1.01	ppb	94
98) Dibenz(a,h)acridine	23.129	279	3311	0.98	ppb	96
99) Dibenz[a,h]anthracene	23.557	278	3233	1.07	ppb	66
100) 7,12-Dimethylbenz(a)an...	21.310	256	1674	0.69	ppb	95
101) Benzo[g,h,i]perylene	24.022	276	2900	0.93	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P578.D
Acq On : 25 Oct 2010 1:56 pm
Operator : kristis
Sample : ic27-1
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 25 14:34:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:33:21 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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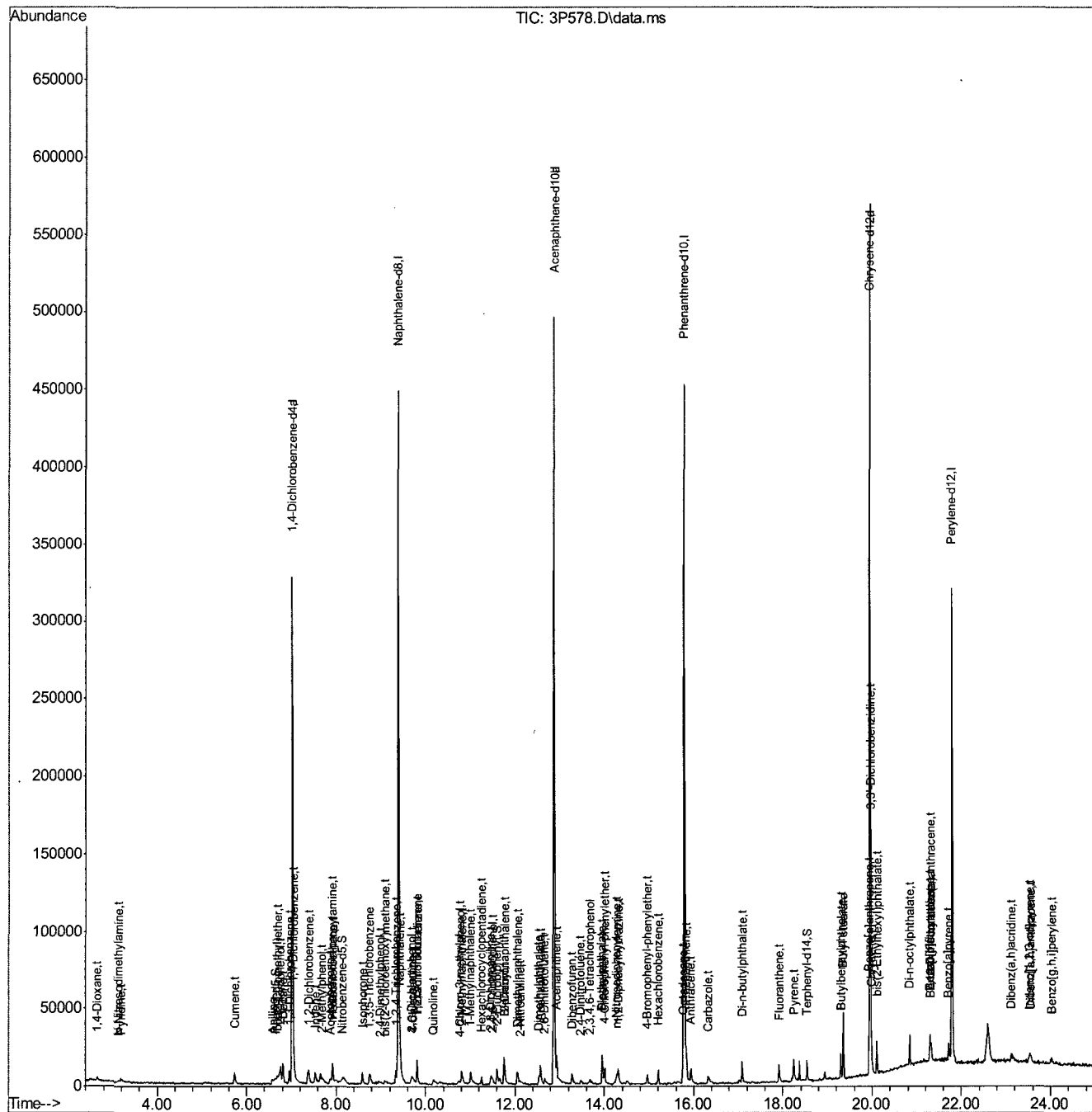
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.3

8

(QT Reviewed)

Quant Time: Oct 25 14:34:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:33:21 2010
Response via : Initial Calibration



Page: 4

8.638

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P579.D
 Acq On : 25 Oct 2010 2:27 pm
 Operator : kristis
 Sample : ic27-80
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 14:54:40 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Mon Oct 25 14:34:53 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.024	152	72731	40.00	ppb	0.00
24) Naphthalene-d8	9.399	136	262677	40.00	ppb	0.00
47) Acenaphthene-d10	12.881	164	139809	40.00	ppb	0.00
69) Phenanthrene-d10	15.801	188	192491	40.00	ppb	0.00
83) Chrysene-d12	19.963	240	178740	40.00	ppb	0.00
92) Perylene-d12	21.802	264	89563	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.024	152	72731	40.00	ppb	0.00
104) Acenaphthene-d10a	12.881	164	139809	40.00	ppb	0.00
106) Chrysene-d12a	19.963	240	178740	40.00	ppb	0.00
108) Acenaphthene-d10b	12.881	164	139809	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.992	112	182363	81.49	ppb	0.00
Spiked Amount 50.000			Recovery	=	162.98%	
8) Phenol-d5	6.575	99	254714	82.41	ppb	0.00
Spiked Amount 50.000			Recovery	=	164.82%	
25) Nitrobenzene-d5	8.105	82	235758	87.13	ppb	0.00
Spiked Amount 50.000			Recovery	=	174.26%	
51) 2-Fluorobiphenyl	11.597	172	411466	78.70	ppb	0.00
Spiked Amount 50.000			Recovery	=	157.40%	
73) 2,4,6-Tribromophenol	14.486	330	66663	83.84	ppb	0.00
Spiked Amount 50.000			Recovery	=	167.68%	
85) Terphenyl-d14	18.540	244	303975	80.79	ppb	0.00
Spiked Amount 50.000			Recovery	=	161.58%	
Target Compounds						
2) 1,4-Dioxane	2.638	88	54080	70.44	ppb	Qvalue 93
3) Pyridine	3.072	79	183551	80.85	ppb	95
4) N-Nitrosodimethylamine	3.072	42	102925	92.98	ppb	91
6) Indene	7.527	116	275210	77.87	ppb	97
7) Cumene	5.724	105	397243	82.72	ppb	96
9) Phenol	6.596	94	262862	81.02	ppb	97
10) Aniline	6.543	93	251586	80.51	ppb	94
11) bis(2-Chloroethyl)ether	6.671	93	199066	80.66	ppb	91
12) 2-Chlorophenol	6.730	128	203353	83.53	ppb	93
13) Decane	6.821	43	258738	83.00	ppb	99
14) 1,3-Dichlorobenzene	6.955	146	224777	77.97	ppb	99
15) 1,4-Dichlorobenzene	7.051	146	233011	76.99	ppb	98
16) Benzyl alcohol	7.372	108	134987	83.82	ppb	91
17) 1,2-Dichlorobenzene	7.383	146	224923	78.84	ppb	99
18) Acetophenone	7.837	105	260468	84.98	ppb	94
19) 2-Methylphenol	7.645	108	180873	78.99	ppb	97
20) 2,2'-oxybis(1-Chloropr...	7.645	121	59809	81.99	ppb	# 78
21) 3&4-Methylphenol	7.923	108	196416	82.36	ppb	96
22) n-Nitroso-di-n-propyla...	7.917	70	157226	86.40	ppb	98
23) Hexachloroethane	7.928	201	81482	75.50	ppb	97
26) Nitrobenzene	8.142	123	97720	81.66	ppb	96
27) Quinoline	10.137	129	329584	83.69	ppb	97
28) Isophorone	8.597	82	367829	79.43	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P579.D
 Acq On : 25 Oct 2010 2:27 pm
 Operator : kristis
 Sample : ic27-80
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 14:54:40 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:34:53 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.741	139	114896	83.06	ppb	95
30) 2,4-Dimethylphenol	8.902	107	185195	93.00	ppb	97
31) Benzoic acid	9.281	105	121285	96.15	ppb	95
32) bis(2-Chloroethoxy)met...	9.067	93	248107	82.45	ppb	99
33) 2,4-Dichlorophenol	9.212	162	159301	81.53	ppb	98
34) 2,6-Dichlorophenol	9.645	162	160376	84.72	ppb	99
35) 1,3,5-Trichlorobenzene	8.741	180	181826	82.27	ppb	98
36) 1,2,4-Trichlorobenzene	9.340	180	176837	79.03	ppb	98
37) 1,2,3-Trichlorobenzene	9.800	180	172885	84.71	ppb	98
38) Naphthalene	9.442	128	585798	79.38	ppb	100
39) 4-Chloroaniline	9.645	127	232818	81.12	ppb	97
40) 2,3-Dichloroaniline	11.448	161	185728	84.45	ppb	99
41) Caprolactam	10.351	55	98656	86.96	ppb	95
42) Hexachlorobutadiene	9.816	225	105681	81.05	ppb	97
43) 4-Chloro-3-methylphenol	10.688	107	162301	94.54	ppb	95
44) 2-Methylnaphthalene	10.795	142	383224	83.68	ppb	98
45) 1-Methylnaphthalene	11.004	142	347231	80.97	ppb	98
46) Dimethylnaphthalene	12.047	156	292620	80.70	ppb	98
48) Hexachlorocyclopentadiene	11.255	237	178964	204.78	ppb	96
49) 2,4,6-Trichlorophenol	11.458	196	110018	85.28	ppb	96
50) 2,4,5-Trichlorophenol	11.554	196	117034	80.49	ppb	97
52) 2-Chloronaphthalene	11.752	162	366974	81.13	ppb	100
53) Biphenyl	11.758	154	457093	80.68	ppb	99
54) 2-Nitroaniline	12.079	65	122976	96.64	ppb	96
55) Dimethylphthalate	12.539	163	359679	78.40	ppb	99
56) Acenaphthylene	12.571	152	551057	78.48	ppb	99
57) 2,6-Dinitrotoluene	12.656	165	77906	79.54	ppb	96
58) 3-Nitroaniline	12.918	138	102061	82.91	ppb	94
59) Acenaphthene	12.945	153	351880	78.35	ppb	99
60) 2,4-Dinitrophenol	13.132	184	77616	183.06	ppb	# 87
61) 4-Nitrophenol	13.378	109	53912	85.13	ppb	95
62) Dibenzofuran	13.271	168	485828	80.42	ppb	98
63) 2,4-Dinitrotoluene	13.432	165	111653	84.70	ppb	95
64) 2,3,4,6-Tetrachlorophenol	13.646	232	94737	86.79	ppb	98
65) Diethylphthalate	13.961	149	419679	82.45	ppb	98
66) Fluorene	13.956	166	402172	83.49	ppb	96
67) 4-Chlorophenyl-phenyle...	14.004	204	169273	78.92	ppb	98
68) 4-Nitroaniline	14.159	138	101102	85.27	ppb	96
70) 4,6-Dinitro-2-methylph...	14.239	198	63852	89.24	ppb	87
71) n-Nitrosodiphenylamine	14.277	169	259831	86.91	ppb	98
72) 1,2-Diphenylhydrazine	14.314	77	513274	90.71	ppb	98
74) 4-Bromophenyl-phenylether	14.962	248	108394	88.96	ppb	98
75) Hexachlorobenzene	15.213	284	130249	84.84	ppb	98
76) Pentachlorophenol	15.609	266	151526	149.31	ppb	98
77) Phenanthrene	15.849	178	445921	79.55	ppb	99
78) Anthracene	15.935	178	447004	79.19	ppb	99
79) Carbazole	16.293	167	436981	82.64	ppb	99
80) Di-n-butylphthalate	17.096	149	639352	83.73	ppb	99
81) Fluoranthene	17.914	202	535838	85.77	ppb	98
82) Octadecane	15.764	57	275934	85.32	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P579.D
Acq On : 25 Oct 2010 2:27 pm
Operator : kristis
Sample : ic27-80
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 14:54:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:34:53 2010
Response via : Initial Calibration

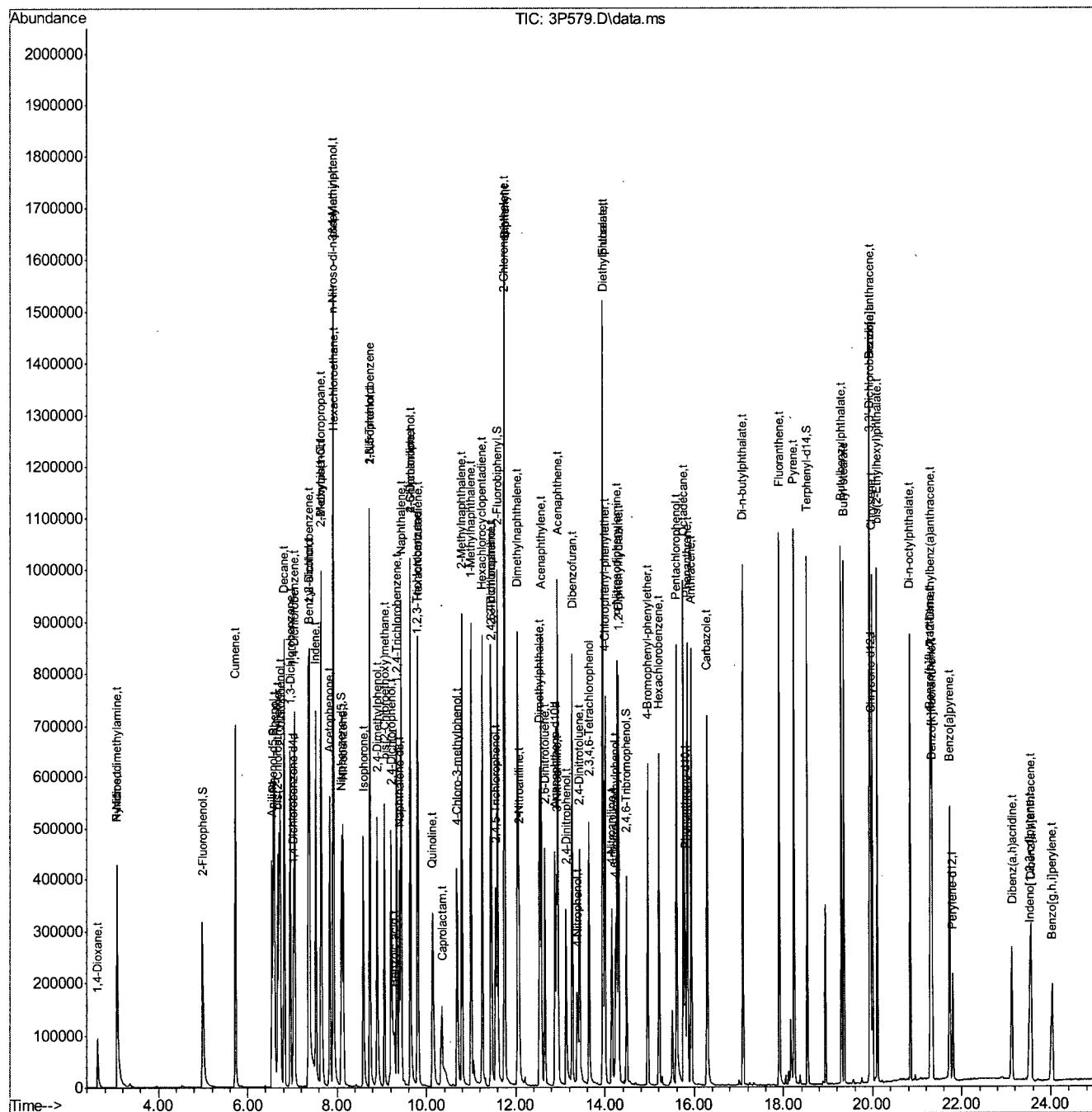
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
84) Pyrene	18.240	202	525472	82.04	ppb	98
86) Butylbenzylphthalate	19.305	149	259022	79.94	ppb	93
87) Butyl stearate	19.363	56	175956	55.64	ppb	97
88) Benzo[a]anthracene	19.941	228	409190	77.39	ppb	100
89) 3,3'-Dichlorobenzidine	19.952	252	166571	80.06	ppb	96
90) Chrysene	20.000	228	345112	77.88	ppb	99
91) bis(2-Ethylhexyl)phtha...	20.112	149	255723	70.78	ppb	98
93) Di-n-octylphthalate	20.850	149	441217	82.56	ppb	98
94) Benzo[b]fluoranthene	21.305	252	352944	92.23	ppb	96
95) Benzo[k]fluoranthene	21.348	252	242964	80.06	ppb	97
96) Benzo[a]pyrene	21.733	252	246564	82.39	ppb	98
97) Indeno[1,2,3-cd]pyrene	23.535	276	202383	84.14	ppb	98
98) Dibenz(a,h)acridine	23.134	279	170138	84.87	ppb	97
99) Dibenz[a,h]anthracene	23.562	278	148328	80.62	ppb	99
100) 7,12-Dimethylbenz(a)an...	21.326	256	125586	96.45	ppb	97
101) Benzo[g,h,i]perylene	24.033	276	155404	85.82	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P579.D
Acq On : 25 Oct 2010 2:27 pm
Operator : kristis
Sample : ic27-80
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 25 14:54:40 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:34:53 2010
Response via : Initial Calibration



8.6.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P580.D
 Acq On : 25 Oct 2010 2:58 pm
 Operator : kristis
 Sample : ic27-5
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 15:46:30 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Mon Oct 25 14:56:52 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	103783	40.00	ppb	0.00
24) Naphthalene-d8	9.394	136	386913	40.00	ppb	0.00
47) Acenaphthene-d10	12.876	164	210360	40.00	ppb	0.00
69) Phenanthrene-d10	15.796	188	324527	40.00	ppb	0.00
83) Chrysene-d12	19.957	240	291789	40.00	ppb	0.00
92) Perylene-d12	21.802	264	178204	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	103783	40.00	ppb	0.00
104) Acenaphthene-d10a	12.876	164	210360	40.00	ppb	0.00
106) Chrysene-d12a	19.957	240	291789	40.00	ppb	0.00
108) Acenaphthene-d10b	12.876	164	210360	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.018	112	15178	4.72	ppb	0.02
Spiked Amount 50.000			Recovery =	9.44%		
8) Phenol-d5	6.585	99	22728	5.11	ppb	0.02
Spiked Amount 50.000			Recovery =	10.22%		
25) Nitrobenzene-d5	8.105	82	20890	5.13	ppb	0.00
Spiked Amount 50.000			Recovery =	10.26%		
51) 2-Fluorobiphenyl	11.586	172	35006	4.47	ppb	0.00
Spiked Amount 50.000			Recovery =	8.94%		
73) 2,4,6-Tribromophenol	14.480	330	5237	3.85	ppb	0.00
Spiked Amount 50.000			Recovery =	7.70%		
85) Terphenyl-d14	18.534	244	27145	4.41	ppb	0.00
Spiked Amount 50.000			Recovery =	8.82%		
Target Compounds						
2) 1,4-Dioxane	2.649	88	4940	4.65	ppb	96
3) Pyridine	3.114	79	15919	4.90	ppb	85
4) N-Nitrosodimethylamine	3.093	42	8567	5.21	ppb	# 77
6) Indene	7.527	116	24473	4.89	ppb	95
7) Cumene	5.730	105	32391	4.69	ppb	99
9) Phenol	6.602	94	24282	5.22	ppb	91
10) Aniline	6.553	93	25472	5.70	ppb	93
11) bis(2-Chloroethyl)ether	6.671	93	19805	5.61	ppb	93
12) 2-Chlorophenol	6.735	128	17553	5.00	ppb	97
13) Decane	6.816	43	22851	5.09	ppb	99
14) 1,3-Dichlorobenzene	6.955	146	19309	4.72	ppb	98
15) 1,4-Dichlorobenzene	7.045	146	20702	4.84	ppb	98
16) Benzyl alcohol	7.479	108	8263	3.54	ppb	80
17) 1,2-Dichlorobenzene	7.388	146	19464	4.80	ppb	98
18) Acetophenone	7.837	105	23406	5.27	ppb	95
19) 2-Methylphenol	7.650	108	16994	5.22	ppb	93
20) 2,2'-oxybis(1-Chloropr...	7.639	121	5478	5.22	ppb	# 89
21) 3&4-Methylphenol	7.944	108	16280	4.74	ppb	86
22) n-Nitroso-di-n-propyla...	7.901	70	13895	5.25	ppb	93
23) Hexachloroethane	7.923	201	6669	4.39	ppb	92
26) Nitrobenzene	8.142	123	8313	4.68	ppb	92
27) Quinoline	10.137	129	29832	5.08	ppb	96
28) Isophorone	8.581	82	35190	5.17	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P580.D
 Acq On : 25 Oct 2010 2:58 pm
 Operator : kristis
 Sample : ic27-5
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 15:46:30 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 14:56:52 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.746	139	9227	4.47	ppb	92
30) 2,4-Dimethylphenol	8.907	107	13652	4.47	ppb	97
31) Benzoic acid	9.222	105	7083m	3.57	ppb	
32) bis(2-Chloroethoxy)met...	9.062	93	21808	4.88	ppb	94
33) 2,4-Dichlorophenol	9.238	162	13225	4.57	ppb	92
34) 2,6-Dichlorophenol	9.650	162	13757	4.86	ppb	98
35) 1,3,5-Trichlorobenzene	8.736	180	15110	4.61	ppb	98
36) 1,2,4-Trichlorobenzene	9.335	180	15094	4.59	ppb	90
37) 1,2,3-Trichlorobenzene	9.800	180	14369	4.71	ppb	96
38) Naphthalene	9.431	128	51813	4.78	ppb	99
39) 4-Chloroaniline	9.650	127	21941	5.17	ppb	98
40) 2,3-Dichloroaniline	11.442	161	16493	5.02	ppb	98
41) Caprolactam	10.260	55	9018	5.24	ppb	96
42) Hexachlorobutadiene	9.816	225	8639	4.48	ppb	93
43) 4-Chloro-3-methylphenol	10.693	107	13880	5.25	ppb	94
44) 2-Methylnaphthalene	10.795	142	34810	5.10	ppb	98
45) 1-Methylnaphthalene	10.998	142	30653	4.84	ppb	96
46) Dimethylnaphthalene	12.041	156	26124	4.88	ppb	97
48) Hexachlorocyclopentadiene	11.250	237	10675	7.59	ppb	93
49) 2,4,6-Trichlorophenol	11.463	196	9108	4.62	ppb	89
50) 2,4,5-Trichlorophenol	11.576	196	10362	4.73	ppb	89
52) 2-Chloronaphthalene	11.742	162	31716	4.64	ppb	98
53) Biphenyl	11.752	154	38001	4.45	ppb	99
54) 2-Nitroaniline	12.079	65	11146	5.53	ppb	97
55) Dimethylphthalate	12.528	163	32154	4.68	ppb	97
56) Acenaphthylene	12.565	152	50021	4.76	ppb	98
57) 2,6-Dinitrotoluene	12.651	165	7218	4.90	ppb	99
58) 3-Nitroaniline	12.924	138	8815	4.70	ppb	94
59) Acenaphthene	12.934	153	31123	4.63	ppb	97
60) 2,4-Dinitrophenol	13.180	184	2080	3.11	ppb	# 78
61) 4-Nitrophenol	13.475	109	3663	3.76	ppb	# 75
62) Dibenzofuran	13.266	168	42639	4.68	ppb	96
63) 2,4-Dinitrotoluene	13.432	165	9562	4.75	ppb	83
64) 2,3,4,6-Tetrachlorophenol	13.651	232	7225	4.31	ppb	98
65) Diethylphthalate	13.945	149	34480	4.47	ppb	99
66) Fluorene	13.945	166	33002	4.50	ppb	91
67) 4-Chlorophenyl-phenyle...	13.999	204	14718	4.58	ppb	93
68) 4-Nitroaniline	14.148	138	8984	4.93	ppb	92
70) 4,6-Dinitro-2-methylph...	14.239	198	3210	2.56	ppb	90
71) n-Nitrosodiphenylamine	14.261	169	22174	4.31	ppb	93
72) 1,2-Diphenylhydrazine	14.298	77	42952	4.36	ppb	96
74) 4-Bromophenyl-phenylether	14.956	248	9137	4.33	ppb	93
75) Hexachlorobenzene	15.202	284	11244	4.28	ppb	94
76) Pentachlorophenol	15.609	266	8769	5.24	ppb	94
77) Phenanthrene	15.833	178	43881	4.65	ppb	98
78) Anthracene	15.924	178	44658	4.70	ppb	97
79) Carbazole	16.299	167	42037	4.68	ppb	99
80) Di-n-butylphthalate	17.085	149	59922	4.60	ppb	99
81) Fluoranthene	17.903	202	46682	4.35	ppb	94
82) Octadecane	15.753	57	25393	4.58	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P580.D
Acq On : 25 Oct 2010 2:58 pm
Operator : kristis
Sample : ic27-5
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 15:46:30 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:56:52 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.235	202	49621	4.72	ppb	99
86) Butylbenzylphthalate	19.299	149	24322	4.60	ppb	97
87) Butyl stearate	19.358	56	22369	4.69	ppb	98
88) Benzo[a]anthracene	19.936	228	38004	4.44	ppb	97
89) 3,3'-Dichlorobenzidine	19.952	252	14978	4.41	ppb	93
90) Chrysene	19.989	228	33245	4.63	ppb	98
91) bis(2-Ethylhexyl)phtha...	20.107	149	29783	5.20	ppb	97
93) Di-n-octylphthalate	20.845	149	49549	4.62	ppb	98
94) Benzo[b]fluoranthene	21.289	252	32506	4.11	ppb	97
95) Benzo[k]fluoranthene	21.326	252	26685	4.42	ppb	97
96) Benzo[a]pyrene	21.717	252	26146	4.36	ppb	96
97) Indeno[1,2,3-cd]pyrene	23.509	276	21567	4.45	ppb	95
98) Dibenz(a,h)acridine	23.113	279	17207	4.25	ppb	96
99) Dibenz[a,h]anthracene	23.541	278	16923	4.61	ppb	95
100) 7,12-Dimethylbenz(a)an...	21.305	256	9658	3.55	ppb	94
101) Benzo[g,h,i]perylene	24.006	276	16984	4.63	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Quant Time: Oct 25 15:46:30 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:56:52 2010
Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: E3P27-IC27 **Method:** EPA 625
Lab FileID: 3P580.D **Analyst approved:** 10/28/10 18:47 Kristi Schollenberger
Injection Time: 10/25/10 14:58 **Supervisor approved:** 10/29/10 09:20 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		9.22	Split peak

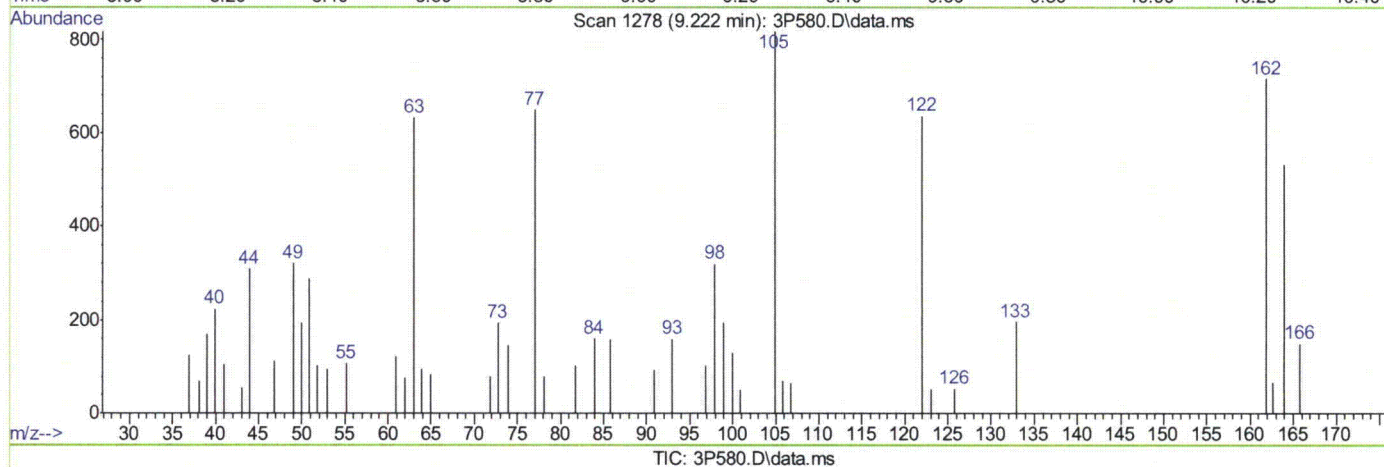
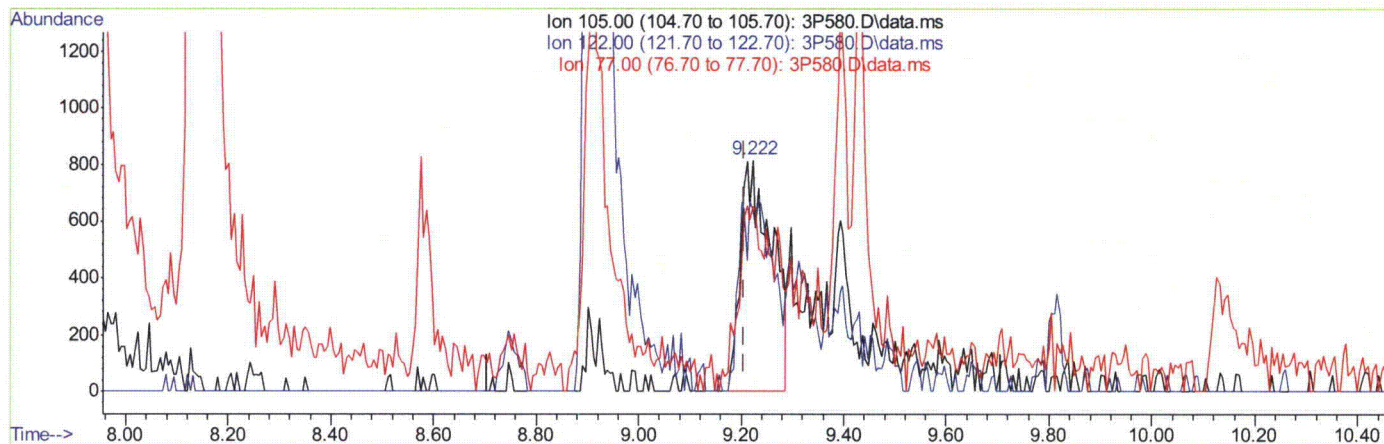
8.6.5.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P580.D
Acq On : 25 Oct 2010 2:58 pm
Operator : kristis
Sample : ic27-5
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 15:43:27 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:56:52 2010
Response via : Initial Calibration



(31) Benzoic acid (t)

9.222min (+0.016) 1.74ppb

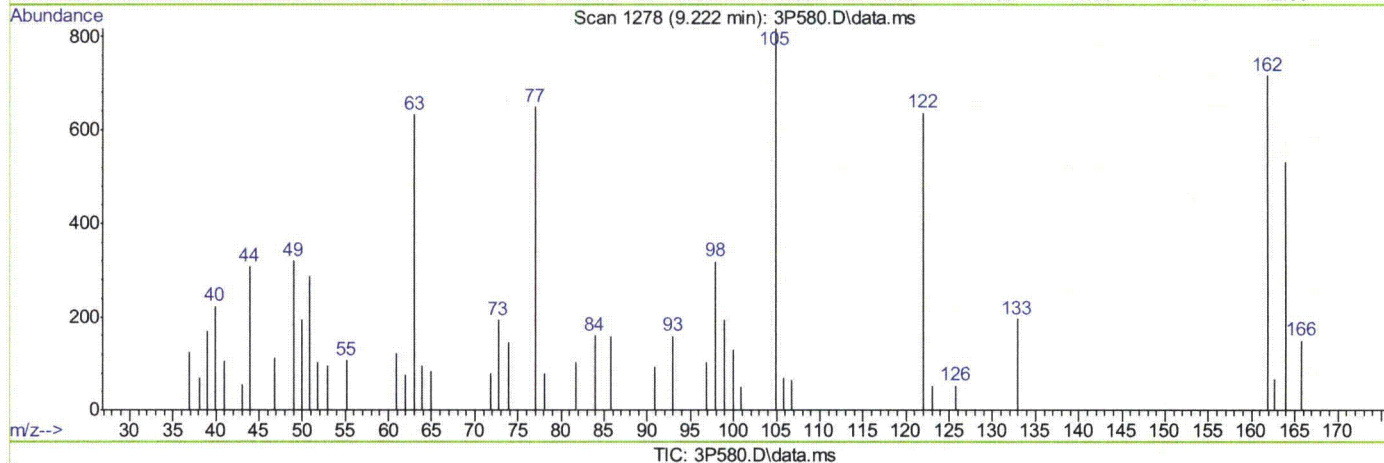
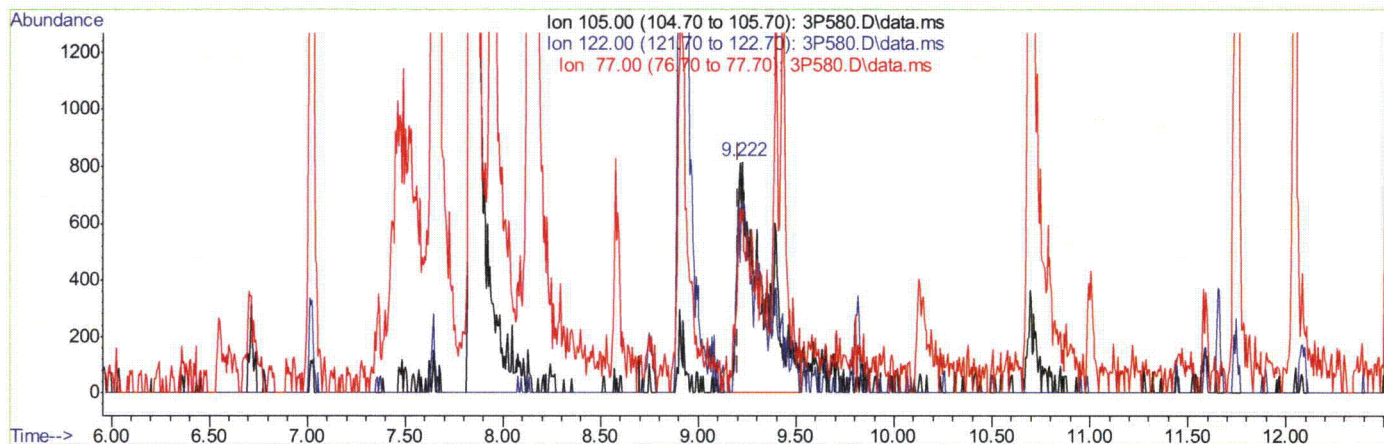
response 3427

Ion	Exp%	Act%
105.00	100	100
122.00	87.50	70.34
77.00	81.70	68.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P580.D
Acq On : 25 Oct 2010 2:58 pm
Operator : kristis
Sample : ic27-5
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 25 15:46:30 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 14:56:52 2010
Response via : Initial Calibration



(31) Benzoic acid (t)

9.222min (+0.016) 3.57ppb m

response 7083

Ion	Exp%	Act%
105.00	100	100
122.00	87.50	77.85
77.00	81.70	79.44
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P581.D
 Acq On : 25 Oct 2010 3:28 pm
 Operator : kristis
 Sample : icc27-25
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:26:03 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 15:46:37 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	55248	40.00	ppb	0.00
24) Naphthalene-d8	9.394	136	202280	40.00	ppb	0.00
47) Acenaphthene-d10	12.876	164	106064	40.00	ppb	0.00
69) Phenanthrene-d10	15.791	188	158143	40.00	ppb	0.00
83) Chrysene-d12	19.957	240	139896	40.00	ppb	0.00
92) Perylene-d12	21.797	264	81140	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	55248	40.00	ppb	0.00
104) Acenaphthene-d10a	12.876	164	106064	40.00	ppb	0.00
106) Chrysene-d12a	19.957	240	139896	40.00	ppb	0.00
108) Acenaphthene-d10b	12.876	164	106064	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.008	112	45897	27.21	ppb	0.01
Spiked Amount 50.000			Recovery =	54.42%		
8) Phenol-d5	6.570	99	62721	26.39	ppb	0.00
Spiked Amount 50.000			Recovery =	52.78%		
25) Nitrobenzene-d5	8.099	82	59236	27.67	ppb	0.00
Spiked Amount 50.000			Recovery =	55.34%		
51) 2-Fluorobiphenyl	11.592	172	98373	25.44	ppb	0.00
Spiked Amount 50.000			Recovery =	50.88%		
73) 2,4,6-Tribromophenol	14.475	330	15234	24.36	ppb	0.00
Spiked Amount 50.000			Recovery =	48.72%		
85) Terphenyl-d14	18.534	244	73205	25.40	ppb	0.00
Spiked Amount 50.000			Recovery =	50.80%		
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.649	88	14178	25.42	ppb	93
3) Pyridine	3.088	79	45800	26.59	ppb	88
4) N-Nitrosodimethylamine	3.077	42	26800	30.37	ppb	# 69
6) Indene	7.527	116	71205	26.82	ppb	96
7) Cumene	5.724	105	98071	27.00	ppb	98
9) Phenol	6.591	94	68420	27.34	ppb	97
10) Aniline	6.543	93	67193	27.49	ppb	97
11) bis(2-Chloroethyl)ether	6.666	93	52980	27.53	ppb	88
12) 2-Chlorophenol	6.730	128	50683	27.11	ppb	94
13) Decane	6.816	43	66238	27.61	ppb	98
14) 1,3-Dichlorobenzene	6.955	146	55206	25.65	ppb	97
15) 1,4-Dichlorobenzene	7.046	146	59058	26.10	ppb	97
16) Benzyl alcohol	7.431	108	31019	26.93	ppb	84
17) 1,2-Dichlorobenzene	7.383	146	55692	26.00	ppb	100
18) Acetophenone	7.832	105	64676	27.06	ppb	91
19) 2-Methylphenol	7.639	108	45912	26.25	ppb	98
20) 2,2'-oxybis(1-Chloropr...	7.645	121	14992	26.54	ppb	95
21) 3&4-Methylphenol	7.923	108	45878	25.41	ppb	96
22) n-Nitroso-di-n-propyla...	7.901	70	37173	26.11	ppb	96
23) Hexachloroethane	7.923	201	19431	24.64	ppb	94
26) Nitrobenzene	8.131	123	24087	26.38	ppb	94
27) Quinoline	10.121	129	79605	25.86	ppb	97
28) Isophorone	8.575	82	97631	27.24	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P581.D
 Acq On : 25 Oct 2010 3:28 pm
 Operator : kristis
 Sample : icc27-25
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:26:03 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 15:46:37 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) 2-Nitrophenol	8.736	139	26895	25.61	ppb	87
30) 2,4-Dimethylphenol	8.896	107	43240	27.68	ppb	100
31) Benzoic acid	9.164	105	26103	27.11	ppb	84
32) bis(2-Chloroethoxy)met...	9.057	93	61529	26.47	ppb	98
33) 2,4-Dichlorophenol	9.222	162	38323	25.87	ppb	97
34) 2,6-Dichlorophenol	9.640	162	38770	26.35	ppb	97
35) 1,3,5-Trichlorobenzene	8.736	180	43554	25.81	ppb	99
36) 1,2,4-Trichlorobenzene	9.335	180	42959	25.42	ppb	98
37) 1,2,3-Trichlorobenzene	9.795	180	41275	26.18	ppb	99
38) Naphthalene	9.431	128	141309	25.14	ppb	98
39) 4-Chloroaniline	9.640	127	59523	26.65	ppb	96
40) 2,3-Dichloroaniline	11.442	161	44893	26.12	ppb	97
41) Caprolactam	10.276	55	24895	27.36	ppb	89
42) Hexachlorobutadiene	9.816	225	24509	24.84	ppb	91
43) 4-Chloro-3-methylphenol	10.677	107	39548	28.33	ppb	89
44) 2-Methylnaphthalene	10.790	142	93676	26.15	ppb	96
45) 1-Methylnaphthalene	10.998	142	86734	26.36	ppb	95
46) Dimethylnaphthalene	12.041	156	71853	25.80	ppb	99
48) Hexachlorocyclopentadiene	11.250	237	35775	52.99	ppb	99
49) 2,4,6-Trichlorophenol	11.453	196	25654	26.19	ppb	98
50) 2,4,5-Trichlorophenol	11.554	196	29527	27.08	ppb	94
52) 2-Chloronaphthalene	11.742	162	85481	25.18	ppb	98
53) Biphenyl	11.752	154	105606	25.07	ppb	98
54) 2-Nitroaniline	12.068	65	31428	30.30	ppb	93
55) Dimethylphthalate	12.528	163	86587	25.33	ppb	99
56) Acenaphthylene	12.565	152	137451	26.18	ppb	98
57) 2,6-Dinitrotoluene	12.646	165	20102	27.20	ppb	97
58) 3-Nitroaniline	12.908	138	25124	26.98	ppb	88
59) Acenaphthene	12.934	153	83882	25.12	ppb	96
60) 2,4-Dinitrophenol	13.138	184	13424	48.11	ppb	84
61) 4-Nitrophenol	13.405	109	11133	24.18	ppb	90
62) Dibenzofuran	13.261	168	114703	25.31	ppb	99
63) 2,4-Dinitrotoluene	13.421	165	26243	26.12	ppb	86
64) 2,3,4,6-Tetrachlorophenol	13.640	232	21881	26.61	ppb	97
65) Diethylphthalate	13.945	149	96428	25.32	ppb	100
66) Fluorene	13.945	166	93761	25.89	ppb	95
67) 4-Chlorophenyl-phenyle...	13.999	204	39896	25.03	ppb	94
68) 4-Nitroaniline	14.133	138	25224	27.54	ppb	97
70) 4,6-Dinitro-2-methylph...	14.229	198	12786	23.85	ppb	95
71) n-Nitrosodiphenylamine	14.261	169	62718	25.71	ppb	99
72) 1,2-Diphenylhydrazine	14.298	77	119956	25.63	ppb	97
74) 4-Bromophenyl-phenylether	14.956	248	25977	25.94	ppb	98
75) Hexachlorobenzene	15.202	284	31142	25.04	ppb	97
76) Pentachlorophenol	15.598	266	29419	40.96	ppb	95
77) Phenanthrene	15.833	178	112622	24.84	ppb	99
78) Anthracene	15.924	178	114649	25.08	ppb	99
79) Carbazole	16.288	167	111644	25.82	ppb	99
80) Di-n-butylphthalate	17.090	149	157923	25.29	ppb	99
81) Fluoranthene	17.903	202	127192	24.99	ppb	98
82) Octadecane	15.759	57	67311	25.34	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P581.D
Acq On : 25 Oct 2010 3:28 pm
Operator : kristis
Sample : icc27-25
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:26:03 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 15:46:37 2010
Response via : Initial Calibration

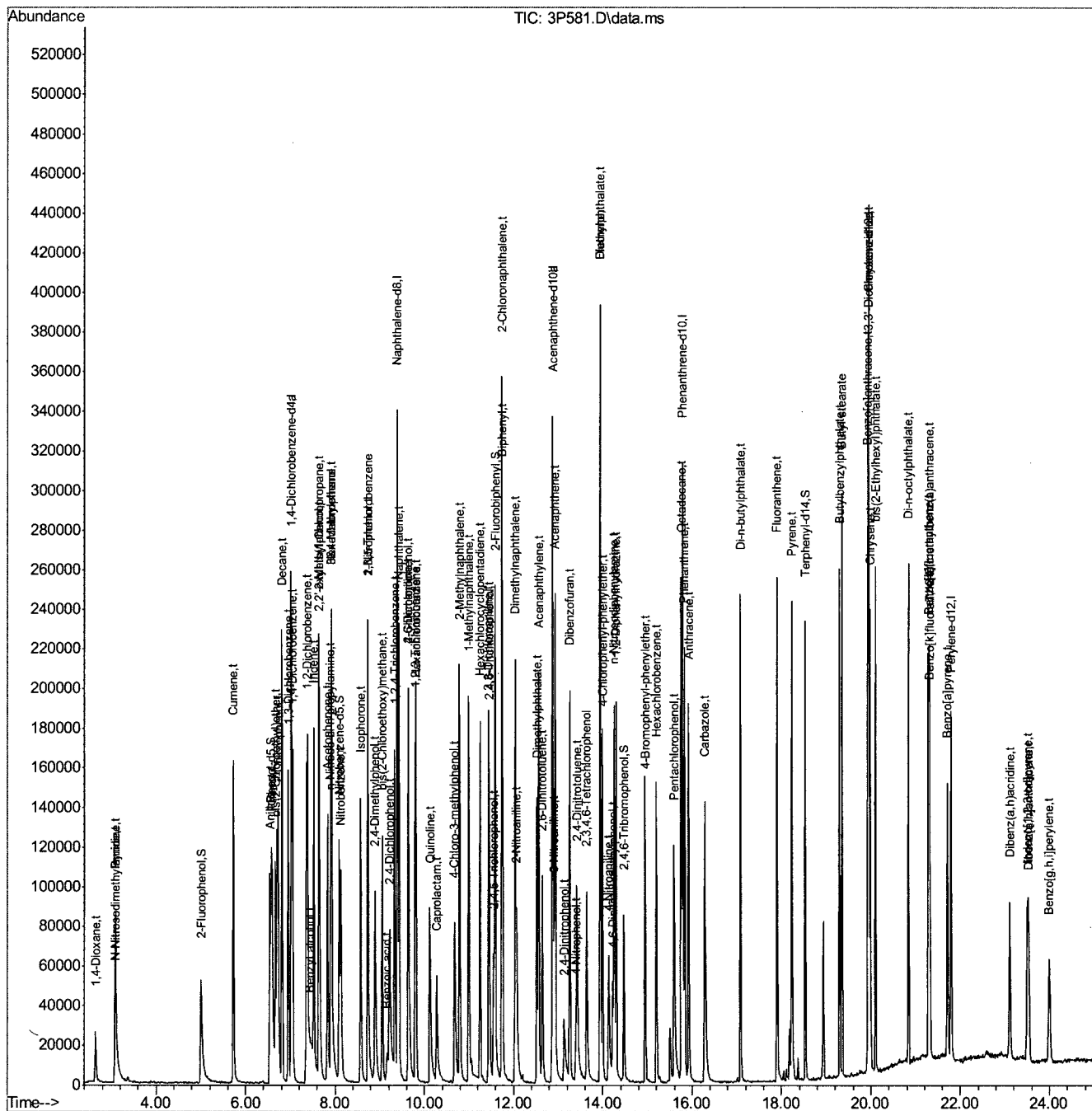
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.235	202	130468	26.16	ppb	99
86) Butylbenzylphthalate	19.299	149	63551	25.47	ppb	90
87) Butyl stearate	19.358	56	47977	21.24	ppb	96
88) Benzo[a]anthracene	19.936	228	97865	24.39	ppb	99
89) 3,3'-Dichlorobenzidine	19.947	252	38968	24.50	ppb	99
90) Chrysene	19.989	228	87415	25.76	ppb	97
91) bis(2-Ethylhexyl)phtha...	20.107	149	72499	26.19	ppb	99
93) Di-n-octylphthalate	20.845	149	122898	25.57	ppb	100
94) Benzo[b]fluoranthene	21.294	252	86613	24.95	ppb	97
95) Benzo[k]fluoranthene	21.326	252	66481	24.75	ppb	96
96) Benzo[a]pyrene	21.722	252	66706	25.06	ppb	98
97) Indeno[1,2,3-cd]pyrene	23.509	276	54453	25.23	ppb	97
98) Dibenz(a,h)acridine	23.113	279	44986	25.15	ppb	97
99) Dibenz[a,h]anthracene	23.535	278	40204	24.45	ppb	94
100) 7,12-Dimethylbenz(a)an...	21.310	256	30027	25.71	ppb	97
101) Benzo[g,h,i]perylene	24.001	276	42537	25.85	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P581.D
Acq On : 25 Oct 2010 3:28 pm
Operator : kristis
Sample : icc27-25
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 25 16:26:03 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 15:46:37 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P582.D
 Acq On : 25 Oct 2010 3:59 pm
 Operator : kristis
 Sample : ic27-2
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:29:56 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 16:27:39 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	76643	40.00	ppb	0.00
24) Naphthalene-d8	9.393	136	276467	40.00	ppb	0.00
47) Acenaphthene-d10	12.875	164	147444	40.00	ppb	0.00
69) Phenanthrene-d10	15.790	188	234337	40.00	ppb	0.00
83) Chrysene-d12	19.957	240	217185	40.00	ppb	0.00
92) Perylene-d12	21.797	264	138021	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	76643	40.00	ppb	0.00
104) Acenaphthene-d10a	12.875	164	147444	40.00	ppb	0.00
106) Chrysene-d12a	19.957	240	217185	40.00	ppb	0.00
108) Acenaphthene-d10b	12.875	164	147444	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.088	112	3441	1.44	ppb	0.00
Spiked Amount 50.000			Recovery	=	2.88%	
8) Phenol-d5	6.618	99	6635	1.99	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.98%	
25) Nitrobenzene-d5	8.126	82	5817	1.95	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.90%	
51) 2-Fluorobiphenyl	11.592	172	10110	1.88	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.76%	
73) 2,4,6-Tribromophenol	14.512	330	1406	1.53	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.06%	
85) Terphenyl-d14	18.540	244	8230	1.83	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.66%	
Target Compounds						
2) 1,4-Dioxane	2.660	88	1388	1.79	ppb	Qvalue 83
3) Pyridine	3.178	79	4156	1.72	ppb	93
4) N-Nitrosodimethylamine	3.125	42	2591	2.04	ppb	# 48
6) Indene	7.538	116	6797	1.82	ppb	96
7) Cumene	5.730	105	9808	1.92	ppb	92
9) Phenol	6.660	94	6520	1.84	ppb	80
10) Aniline	6.575	93	6915	2.01	ppb	90
11) bis(2-Chloroethyl) ether	6.682	93	4957	1.83	ppb	91
12) 2-Chlorophenol	6.757	128	5141	1.95	ppb	83
13) Decane	6.815	43	6821	2.01	ppb	95
14) 1,3-Dichlorobenzene	6.960	146	5642	1.88	ppb	92
15) 1,4-Dichlorobenzene	7.051	146	6093	1.93	ppb	94
16) Benzyl alcohol	7.532	108	2406	1.48	ppb	# 1
17) 1,2-Dichlorobenzene	7.388	146	5739	1.92	ppb	99
18) Acetophenone	7.864	105	6892	2.05	ppb	87
19) 2-Methylphenol	7.677	108	5164	2.11	ppb	95
20) 2,2'-oxybis(1-Chloropr...	7.655	121	1438	1.81	ppb	# 62
21) 3&4-Methylphenol	7.992	108	4084	1.63	ppb	# 57
22) n-Nitroso-di-n-propyla...	7.912	70	3637	1.83	ppb	92
23) Hexachloroethane	7.928	201	2211	2.03	ppb	94
26) Nitrobenzene	8.158	123	2225	1.76	ppb	# 75
27) Quinoline	10.169	129	8131	1.92	ppb	99
28) Isophorone	8.586	82	10061	2.02	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P582.D
 Acq On : 25 Oct 2010 3:59 pm
 Operator : kristis
 Sample : ic27-2
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:29:56 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 16:27:39 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.773	139	2551	1.77	ppb	# 69
30) 2,4-Dimethylphenol	8.939	107	3918	1.80	ppb	94
32) bis(2-Chloroethoxy)met...	9.089	93	5865	1.83	ppb	83
33) 2,4-Dichlorophenol	9.303	162	3386	1.66	ppb	# 73
34) 2,6-Dichlorophenol	9.677	162	3666	1.81	ppb	# 78
35) 1,3,5-Trichlorobenzene	8.741	180	4497	1.94	ppb	89
36) 1,2,4-Trichlorobenzene	9.335	180	4284	1.85	ppb	96
37) 1,2,3-Trichlorobenzene	9.805	180	4376	2.02	ppb	97
38) Naphthalene	9.431	128	15054	1.96	ppb	95
39) 4-Chloroaniline	9.688	127	5929	1.92	ppb	92
40) 2,3-Dichloroaniline	11.453	161	4615	1.95	ppb	97
41) Caprolactam	10.303	55	2460	1.94	ppb	88
42) Hexachlorobutadiene	9.816	225	2623	1.95	ppb	91
43) 4-Chloro-3-methylphenol	10.757	107	3525	1.81	ppb	# 44
44) 2-Methylnaphthalene	10.806	142	10645	2.16	ppb	97
45) 1-Methylnaphthalene	11.003	142	9324	2.05	ppb	96
46) Dimethylnaphthalene	12.052	156	7471	1.95	ppb	96
48) Hexachlorocyclopentadiene	11.249	237	2046	2.16	ppb	67
49) 2,4,6-Trichlorophenol	11.485	196	2769	2.02	ppb	98
50) 2,4,5-Trichlorophenol	11.619	196	2158	1.40	ppb	# 50
52) 2-Chloronaphthalene	11.752	162	8622	1.82	ppb	92
53) Biphenyl	11.758	154	10608	1.81	ppb	84
54) 2-Nitroaniline	12.121	65	2828	1.89	ppb	88
55) Dimethylphthalate	12.533	163	9253	1.94	ppb	97
56) Acenaphthylene	12.571	152	13786	1.87	ppb	99
57) 2,6-Dinitrotoluene	12.667	165	1998	1.92	ppb	79
58) 3-Nitroaniline	12.982	138	2247	1.71	ppb	92
59) Acenaphthene	12.934	153	8866	1.91	ppb	97
62) Dibenzofuran	13.277	168	11908	1.89	ppb	97
63) 2,4-Dinitrotoluene	13.469	165	2547	1.81	ppb	96
64) 2,3,4,6-Tetrachlorophenol	13.667	232	1832	1.59	ppb	# 60
65) Diethylphthalate	13.951	149	9404	1.77	ppb	97
66) Fluorene	13.956	166	9328	1.84	ppb	99
67) 4-Chlorophenyl-phenyle...	13.999	204	3920	1.77	ppb	97
68) 4-Nitroaniline	14.223	138	1564	1.20	ppb	# 51
71) n-Nitrosodiphenylamine	14.277	169	6351	1.75	ppb	92
72) 1,2-Diphenylhydrazine	14.309	77	11772	1.69	ppb	97
74) 4-Bromophenyl-phenylether	14.961	248	2425	1.62	ppb	91
75) Hexachlorobenzene	15.207	284	3041	1.65	ppb	96
76) Pentachlorophenol	15.630	266	1551	1.51	ppb	94
77) Phenanthrene	15.833	178	13298	1.98	ppb	98
78) Anthracene	15.930	178	12694	1.87	ppb	96
79) Carbazole	16.320	167	12382	1.92	ppb	97
80) Di-n-butylphthalate	17.090	149	16830	1.82	ppb	96
81) Fluoranthene	17.914	202	13622	1.81	ppb	98
82) Octadecane	15.758	57	7355	1.86	ppb	96
84) Pyrene	18.245	202	13885	1.78	ppb	98
86) Butylbenzylphthalate	19.299	149	7689	1.98	ppb	92
87) Butyl stearate	19.358	56	8183	2.39	ppb	# 77
88) Benzo[a]anthracene	19.936	228	12293	1.98	ppb	95

8.6.7
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P582.D
Acq On : 25 Oct 2010 3:59 pm
Operator : kristis
Sample : ic27-2
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:29:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:27:39 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) 3,3'-Dichlorobenzidine	19.962	252	4011	1.63	ppb	74
90) Chrysene	19.989	228	9963	1.88	ppb	97
91) bis(2-Ethylhexyl)phtha...	20.107	149	9368	2.16	ppb	100
93) Di-n-octylphthalate	20.845	149	14743	1.80	ppb	100
94) Benzo[b]fluoranthene	21.294	252	8955m	1.52	ppb	
95) Benzo[k]fluoranthene	21.326	252	9861m	2.16	ppb	
96) Benzo[a]pyrene	21.722	252	8017	1.77	ppb	94
97) Indeno[1,2,3-cd]pyrene	23.525	276	6634	1.80	ppb	91
98) Dibenz(a,h)acridine	23.123	279	5014	1.65	ppb	89
99) Dibenz[a,h]anthracene	23.546	278	5144	1.85	ppb	94
100) 7,12-Dimethylbenz(a)an...	21.305	256	3074	1.54	ppb	97
101) Benzo[g,h,i]perylene	24.017	276	4890	1.74	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.7
8

Manual Integration Approval Summary

Page 1 of 1

Sample Number: E3P27-IC27
Lab FileID: 3P582.D
Injection Time: 10/25/10 15:59

Method: EPA 625
Analyst approved: 10/28/10 18:47 Kristi Schollenberger
Supervisor approved: 10/29/10 09:20 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.29	Overlapping peak
Benzo(k)fluoranthene	207-08-9		21.33	Overlapping peak

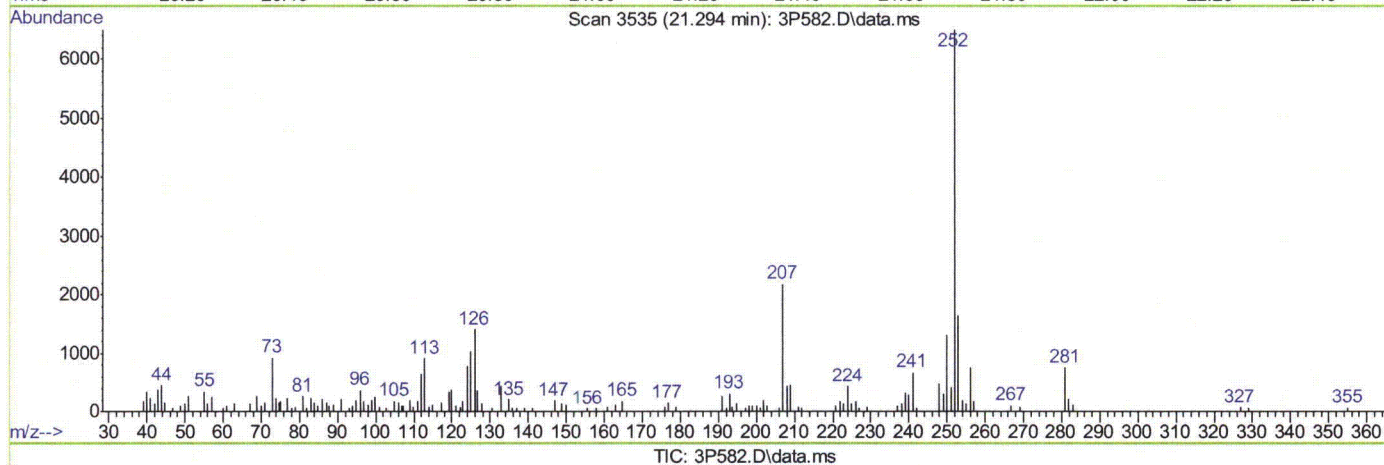
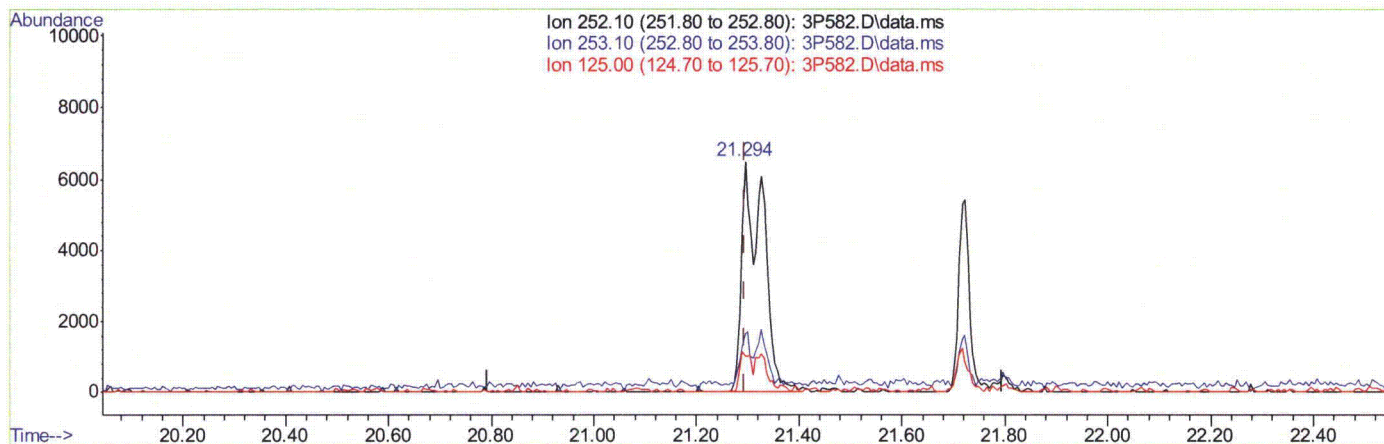
8.6.7.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P582.D
Acq On : 25 Oct 2010 3:59 pm
Operator : kristis
Sample : ic27-2
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:28:35 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:27:39 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.294min (0.000) 3.21ppb

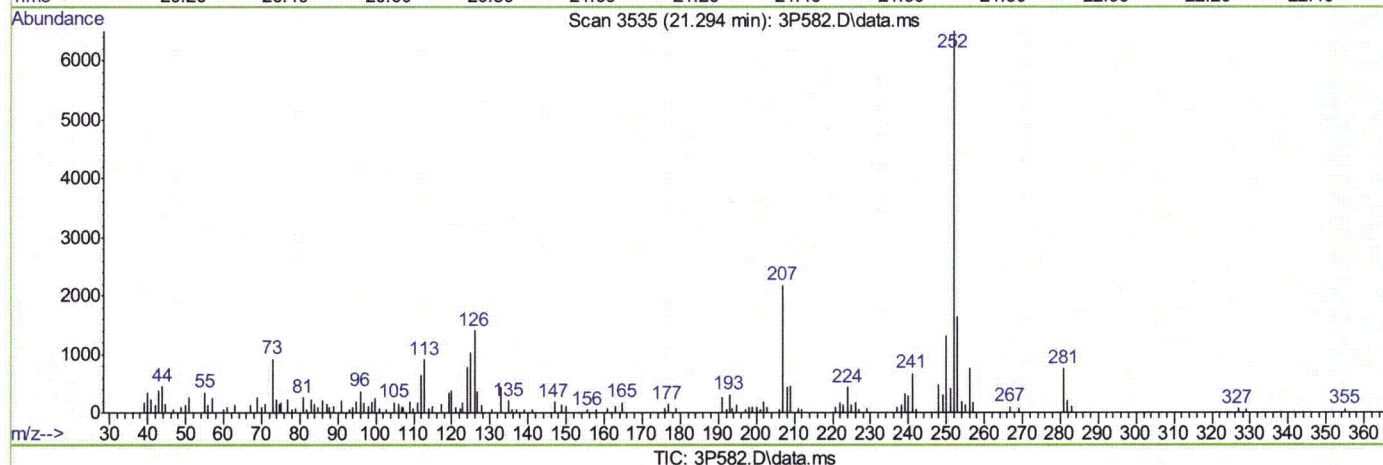
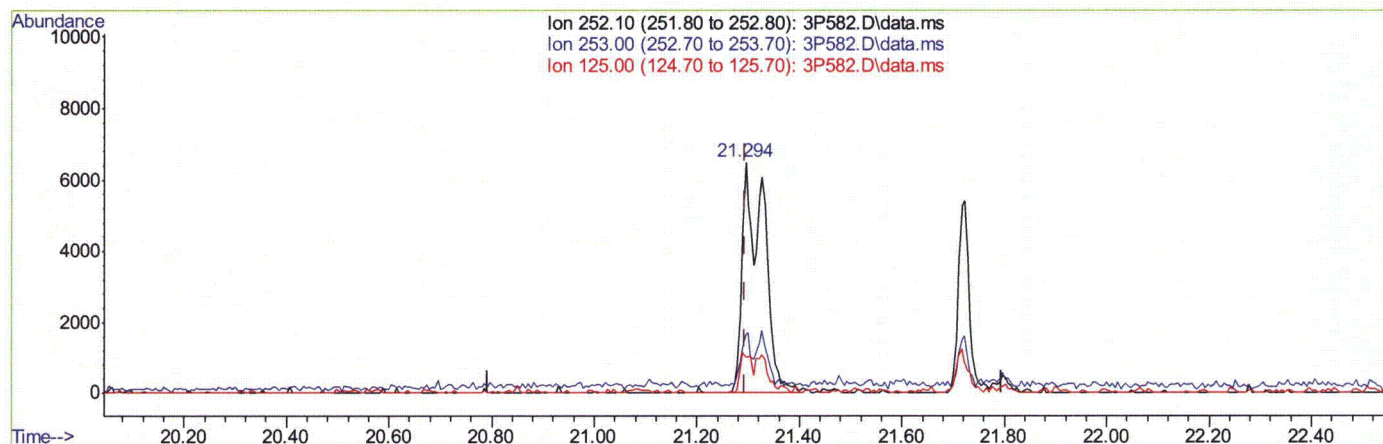
response 18937

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	21.18
125.00	15.70	15.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P582.D
Acq On : 25 Oct 2010 3:59 pm
Operator : kristis
Sample : ic27-2
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:28:35 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:27:39 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.294min (0.000) 4.15ppb

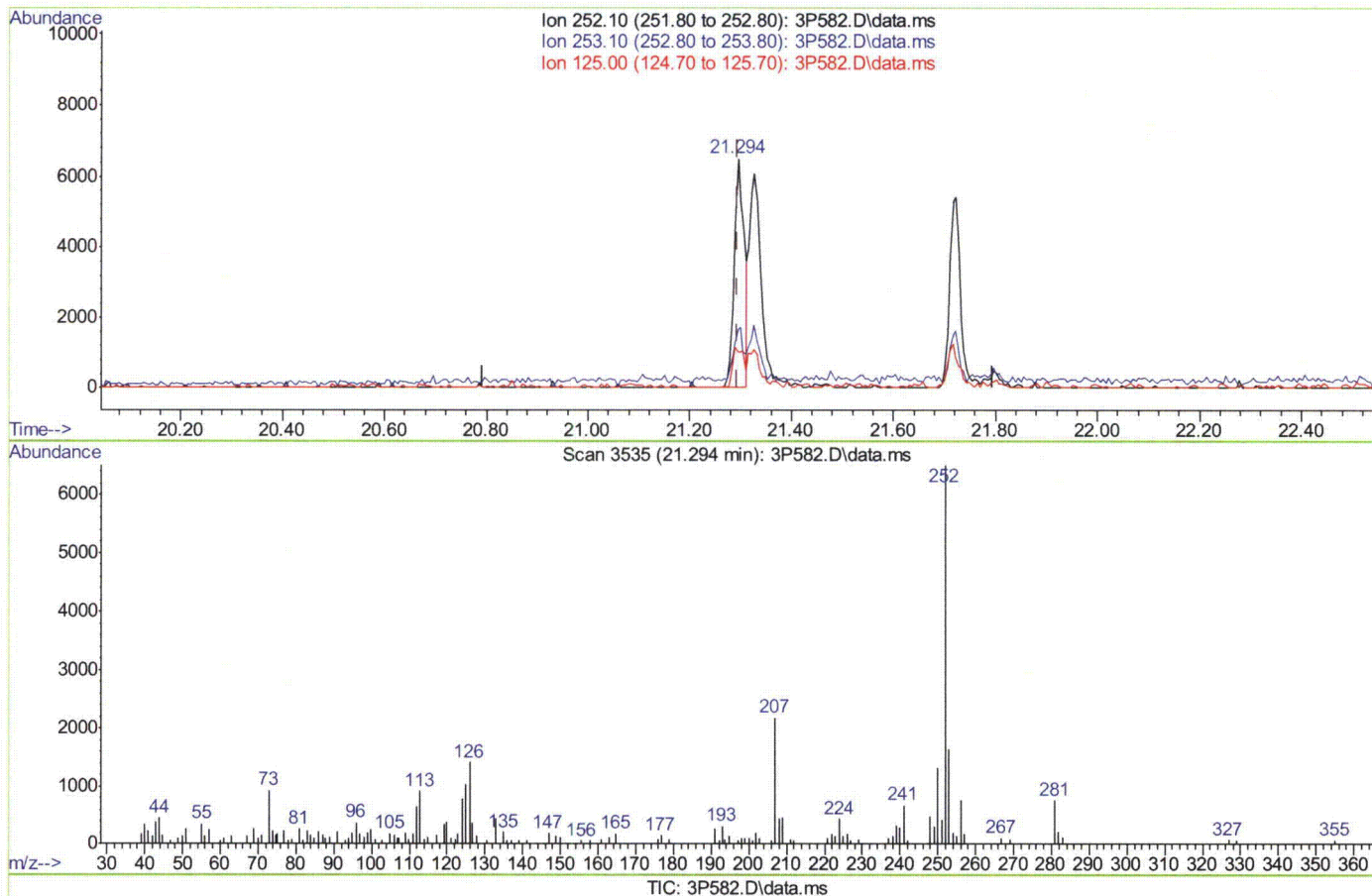
response 18937

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	22.02
125.00	14.40	15.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P582.D
Acq On : 25 Oct 2010 3:59 pm
Operator : kristis
Sample : ic27-2
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:29:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:27:39 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.294min (0.000) 1.52ppb m

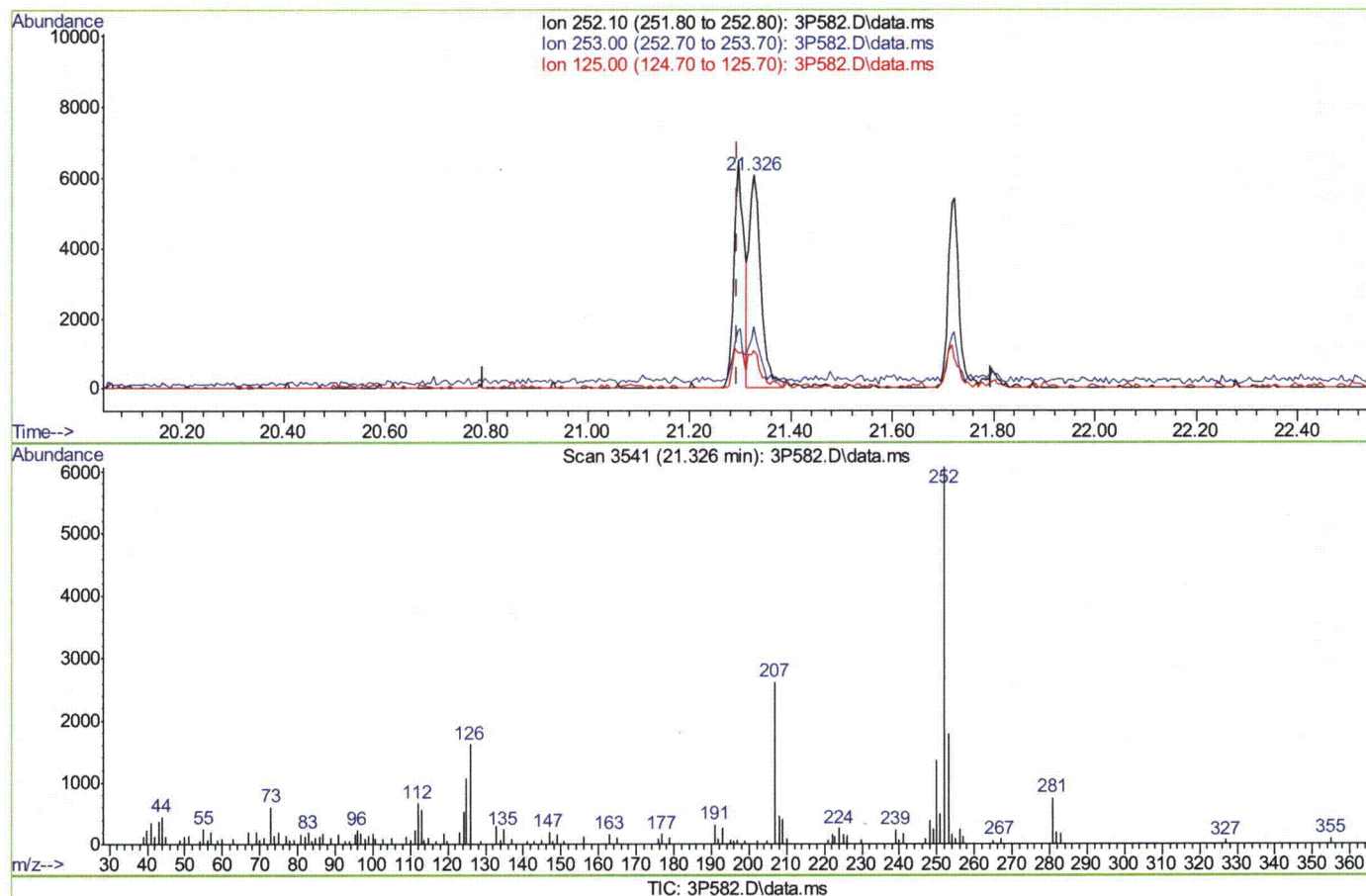
response 8955

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	25.33
125.00	15.70	15.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P582.D
Acq On : 25 Oct 2010 3:59 pm
Operator : kristis
Sample : ic27-2
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 25 16:29:56 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:27:39 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (l)

21.326min (+0.032) 2.16ppb m

response 9861

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	29.21
125.00	14.40	17.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P583.D
 Acq On : 25 Oct 2010 4:30 pm
 Operator : kristis
 Sample : ic27-10
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:57:21 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Mon Oct 25 16:30:05 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	75768	40.00	ppb	0.00
24) Naphthalene-d8	9.393	136	280364	40.00	ppb	0.00
47) Acenaphthene-d10	12.875	164	152219	40.00	ppb	0.00
69) Phenanthrene-d10	15.790	188	230740	40.00	ppb	0.00
83) Chrysene-d12	19.957	240	211621	40.00	ppb	0.00
92) Perylene-d12	21.797	264	127753	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	75768	40.00	ppb	0.00
104) Acenaphthene-d10a	12.875	164	152219	40.00	ppb	0.00
106) Chrysene-d12a	19.957	240	211621	40.00	ppb	0.00
108) Acenaphthene-d10b	12.875	164	152219	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.013	112	22559	10.05	ppb	-0.07
Spiked Amount 50.000			Recovery =	20.10%		
8) Phenol-d5	6.575	99	32708	9.95	ppb	-0.04
Spiked Amount 50.000			Recovery =	19.90%		
25) Nitrobenzene-d5	8.099	82	32334	10.74	ppb	-0.03
Spiked Amount 50.000			Recovery =	21.48%		
51) 2-Fluorobiphenyl	11.586	172	53061	9.62	ppb	0.00
Spiked Amount 50.000			Recovery =	19.24%		
73) 2,4,6-Tribromophenol	14.480	330	7897	9.06	ppb	-0.03
Spiked Amount 50.000			Recovery =	18.12%		
85) Terphenyl-d14	18.534	244	41433	9.59	ppb	0.00
Spiked Amount 50.000			Recovery =	19.18%		
Target Compounds						
2) 1,4-Dioxane	2.649	88	7261	9.61	ppb	Qvalue 87
3) Pyridine	3.103	79	25511	10.90	ppb	97
4) N-Nitrosodimethylamine	3.087	42	14271	11.35	ppb	# 74
6) Indene	7.527	116	37572	10.33	ppb	99
7) Cumene	5.730	105	50215	10.00	ppb	98
9) Phenol	6.596	94	37279	10.80	ppb	98
10) Aniline	6.548	93	36964	10.84	ppb	99
11) bis(2-Chloroethyl)ether	6.671	93	28953	10.92	ppb	93
12) 2-Chlorophenol	6.730	128	26747	10.32	ppb	90
13) Decane	6.815	43	35754	10.67	ppb	97
14) 1,3-Dichlorobenzene	6.954	146	29155	9.92	ppb	97
15) 1,4-Dichlorobenzene	7.045	146	30396	9.78	ppb	93
16) Benzyl alcohol	7.495	108	14924	9.72	ppb	# 74
17) 1,2-Dichlorobenzene	7.382	146	28850	9.81	ppb	98
18) Acetophenone	7.837	105	35217	10.56	ppb	87
19) 2-Methylphenol	7.644	108	25161	10.32	ppb	93
20) 2,2'-oxybis(1-Chloropr...	7.644	121	8203	10.63	ppb	# 73
21) 3&4-Methylphenol	7.933	108	25398	10.55	ppb	97
22) n-Nitroso-di-n-propyla...	7.901	70	20003	10.30	ppb	96
23) Hexachloroethane	7.923	201	10268	9.50	ppb	82
26) Nitrobenzene	8.136	123	12684	10.11	ppb	92
27) Quinoline	10.126	129	43795	10.26	ppb	97
28) Isophorone	8.580	82	51554	10.21	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P583.D
 Acq On : 25 Oct 2010 4:30 pm
 Operator : kristis
 Sample : ic27-10
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:57:21 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Mon Oct 25 16:30:05 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) 2-Nitrophenol	8.741	139	14473	10.09	ppb	84
30) 2,4-Dimethylphenol	8.901	107	22042	10.14	ppb	92
31) Benzoic acid	9.217	105	12024	8.86	ppb	96
32) bis(2-Chloroethoxy)met...	9.056	93	32094	9.99	ppb	92
33) 2,4-Dichlorophenol	9.238	162	20648	10.28	ppb	99
34) 2,6-Dichlorophenol	9.645	162	21042	10.37	ppb	98
35) 1,3,5-Trichlorobenzene	8.736	180	23073	9.86	ppb	96
36) 1,2,4-Trichlorobenzene	9.335	180	23063	9.93	ppb	96
37) 1,2,3-Trichlorobenzene	9.800	180	21893	9.93	ppb	99
38) Naphthalene	9.431	128	78296	10.07	ppb	99
39) 4-Chloroaniline	9.645	127	30375	9.76	ppb	95
40) 2,3-Dichloroaniline	11.442	161	24516	10.25	ppb	96
41) Caprolactam	10.265	55	14405	11.27	ppb	96
42) Hexachlorobutadiene	9.816	225	12836	9.43	ppb	92
43) 4-Chloro-3-methylphenol	10.688	107	20929	10.73	ppb	95
44) 2-Methylnaphthalene	10.795	142	50040	9.89	ppb	97
45) 1-Methylnaphthalene	10.998	142	47775	10.34	ppb	96
46) Dimethylnaphthalene	12.041	156	39380	10.18	ppb	96
48) Hexachlorocyclopentadiene	11.249	237	17851	19.53	ppb	97
49) 2,4,6-Trichlorophenol	11.458	196	13645	9.62	ppb	95
50) 2,4,5-Trichlorophenol	11.570	196	14979	9.91	ppb	80
52) 2-Chloronaphthalene	11.736	162	44368	9.21	ppb	98
53) Biphenyl	11.747	154	56919	9.54	ppb	98
54) 2-Nitroaniline	12.073	65	16377	10.71	ppb	92
55) Dimethylphthalate	12.528	163	48468	9.90	ppb	99
56) Acenaphthylene	12.565	152	72513	9.64	ppb	99
57) 2,6-Dinitrotoluene	12.645	165	10291	9.62	ppb	85
58) 3-Nitroaniline	12.918	138	13462	10.16	ppb	98
59) Acenaphthene	12.934	153	45837	9.62	ppb	98
60) 2,4-Dinitrophenol	13.159	184	4394	11.06	ppb	# 96
61) 4-Nitrophenol	13.442	109	5486	8.36	ppb	# 71
62) Dibenzofuran	13.261	168	62549	9.68	ppb	99
63) 2,4-Dinitrotoluene	13.426	165	14124	9.86	ppb	93
64) 2,3,4,6-Tetrachlorophenol	13.646	232	11499	9.93	ppb	97
65) Diethylphthalate	13.945	149	52690	9.78	ppb	99
66) Fluorene	13.945	166	49235	9.53	ppb	97
67) 4-Chlorophenyl-phenyle...	13.993	204	21867	9.72	ppb	98
68) 4-Nitroaniline	14.138	138	13632	10.89	ppb	98
70) 4,6-Dinitro-2-methylph...	14.229	198	6061	7.82	ppb	90
71) n-Nitrosodiphenylamine	14.255	169	34218	9.74	ppb	96
72) 1,2-Diphenylhydrazine	14.298	77	65559	9.78	ppb	99
74) 4-Bromophenyl-phenylether	14.951	248	14214	9.93	ppb	95
75) Hexachlorobenzene	15.202	284	16622	9.39	ppb	91
76) Pentachlorophenol	15.603	266	14408	14.27	ppb	97
77) Phenanthrene	15.833	178	64016	9.70	ppb	99
78) Anthracene	15.924	178	63310	9.57	ppb	97
79) Carbazole	16.293	167	61639	9.77	ppb	98
80) Di-n-butylphthalate	17.085	149	87424	9.70	ppb	99
81) Fluoranthene	17.903	202	69910	9.55	ppb	98
82) Octadecane	15.758	57	37770	9.82	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
 Data File : 3P583.D
 Acq On : 25 Oct 2010 4:30 pm
 Operator : kristis
 Sample : ic27-10
 Misc : op46181,e3p27,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:57:21 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Mon Oct 25 16:30:05 2010
 Response via : Initial Calibration

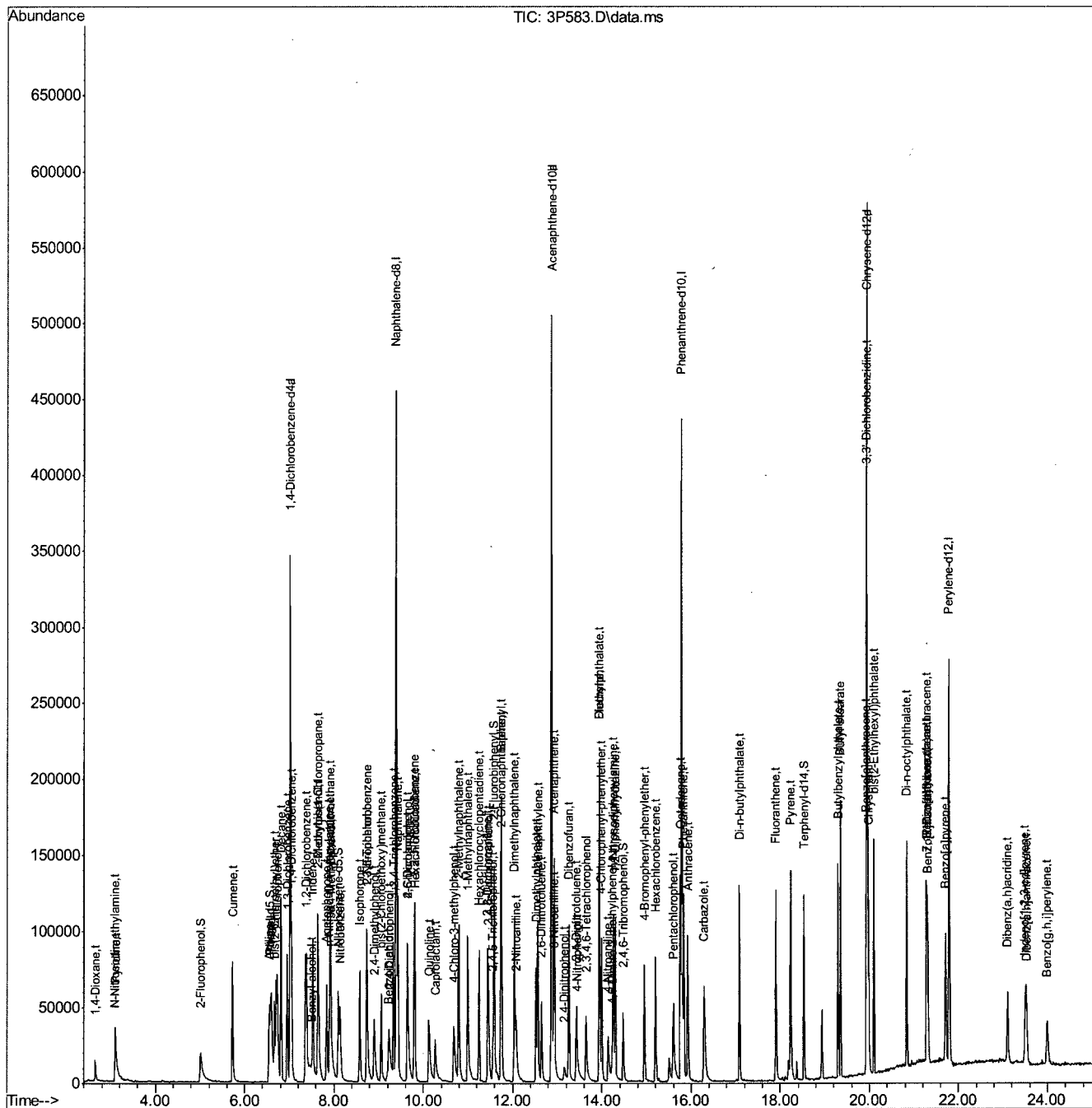
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.235	202	73802	9.86	ppb	100
86) Butylbenzylphthalate	19.299	149	35875	9.49	ppb	88
87) Butyl stearate	19.358	56	28352	8.28	ppb	98
88) Benzo[a]anthracene	19.930	228	56742	9.40	ppb	97
89) 3,3'-Dichlorobenzidine	19.946	252	22395	9.59	ppb	94
90) Chrysene	19.989	228	49174	9.61	ppb	98
91) bis(2-Ethylhexyl)phtha...	20.107	149	44087	10.33	ppb	99
93) Di-n-octylphthalate	20.845	149	73411	9.81	ppb	99
94) Benzo[b]fluoranthene	21.289	252	47424m	8.99	ppb	
95) Benzo[k]fluoranthene	21.321	252	41609m	9.74	ppb	
96) Benzo[a]pyrene	21.717	252	40056	9.71	ppb	98
97) Indeno[1,2,3-cd]pyrene	23.503	276	32928	9.81	ppb	96
98) Dibenz(a,h)acridine	23.107	279	25573	9.31	ppb	98
99) Dibenz[a,h]anthracene	23.535	278	25164	9.86	ppb	98
100) 7,12-Dimethylbenz(a)an...	21.305	256	16483	9.22	ppb	89
101) Benzo[g,h,i]perylene	23.990	276	25520	9.98	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P583.D
Acq On : 25 Oct 2010 4:30 pm
Operator : kristis
Sample : ic27-10
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:57:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:30:05 2010
Response via : Initial Calibration



8.9.8

Manual Integration Approval Summary

Page 1 of 1

Sample Number: E3P27-IC27
Lab FileID: 3P583.D
Injection Time: 10/25/10 16:30

Method: EPA 625
Analyst approved: 10/28/10 18:47 Kristi Schollenberger
Supervisor approved: 10/29/10 09:20 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.29	Overlapping peak
Benzo(k)fluoranthene	207-08-9		21.32	Overlapping peak

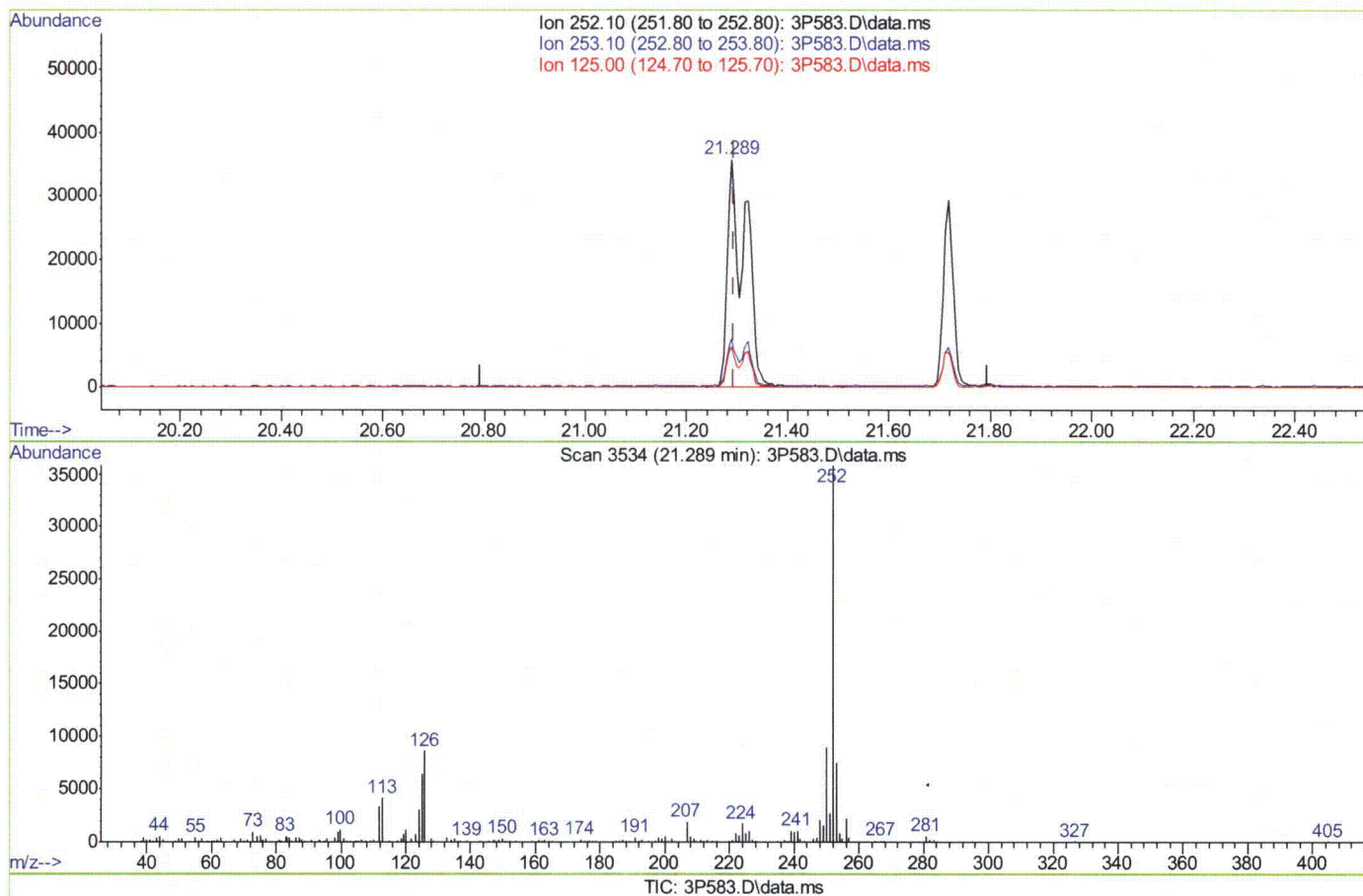
8.6.8.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P583.D
Acq On : 25 Oct 2010 4:30 pm
Operator : kristis
Sample : ic27-10
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:56:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:30:05 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.289min (-0.005) 16.99ppb

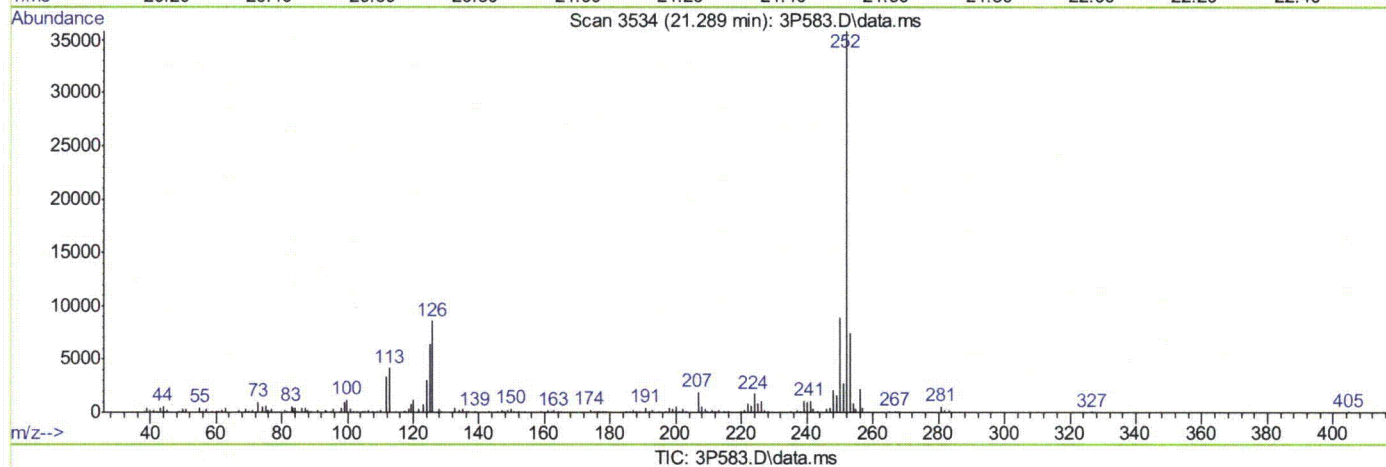
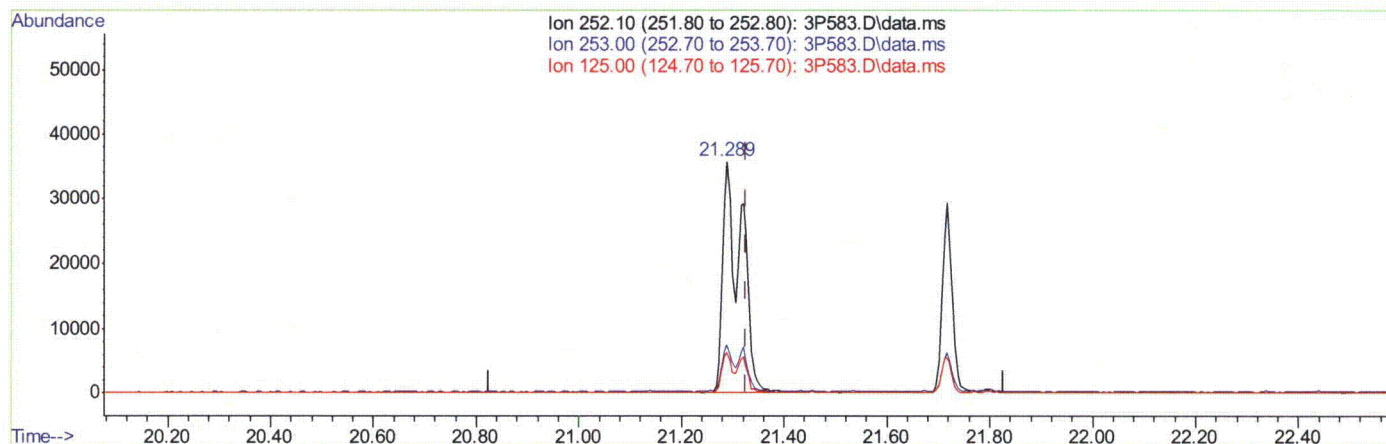
response 89609

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	20.22
125.00	15.70	17.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P583.D
Acq On : 25 Oct 2010 4:30 pm
Operator : kristis
Sample : ic27-10
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:56:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:30:05 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.289min (-0.038) 20.98ppb

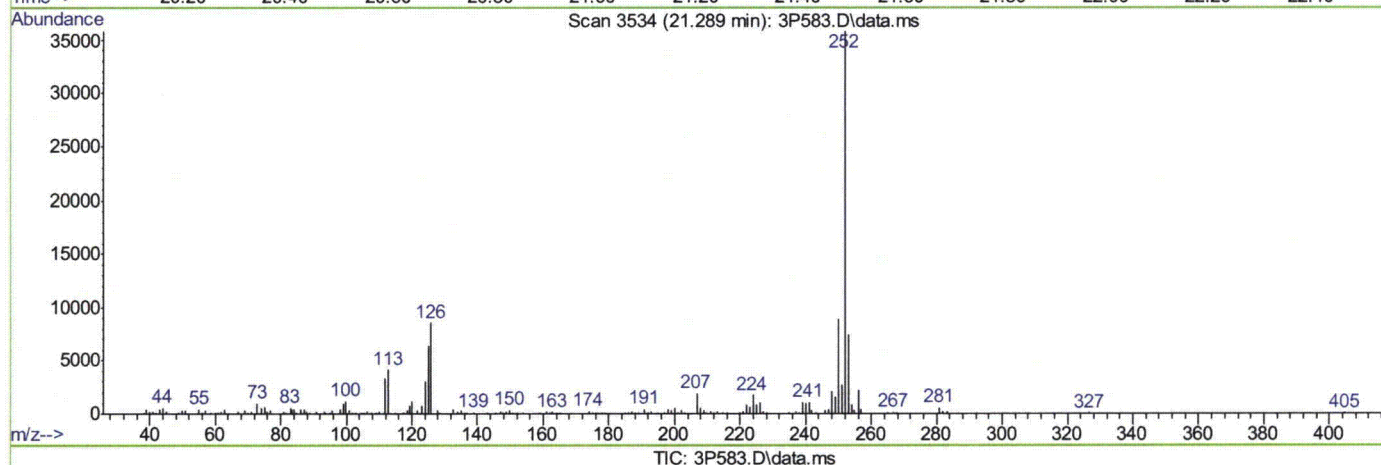
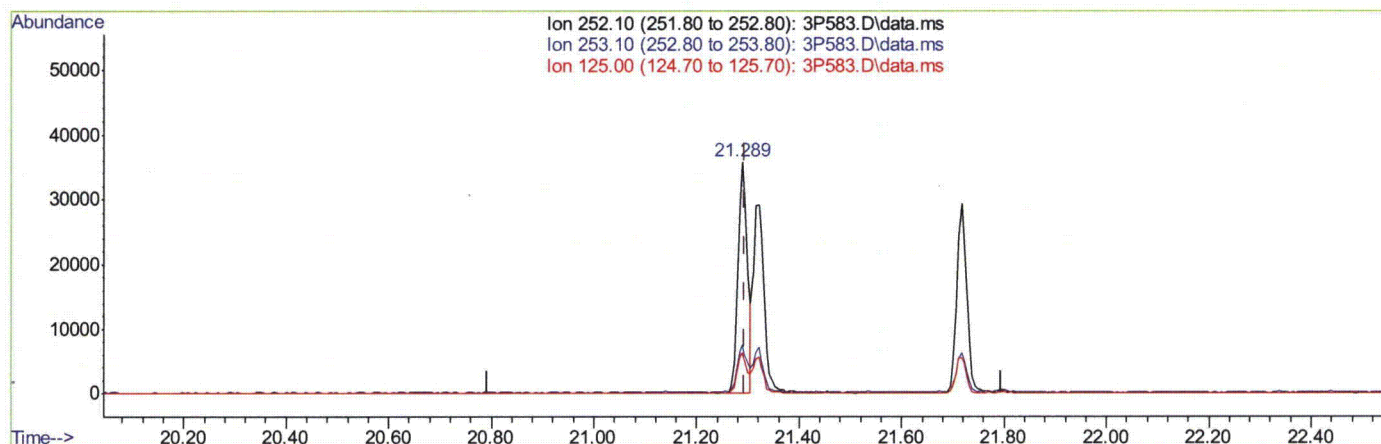
response 89609

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	20.30
125.00	14.40	17.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P583.D
Acq On : 25 Oct 2010 4:30 pm
Operator : kristis
Sample : ic27-10
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:57:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:30:05 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.289min (-0.005) 8.99ppb m

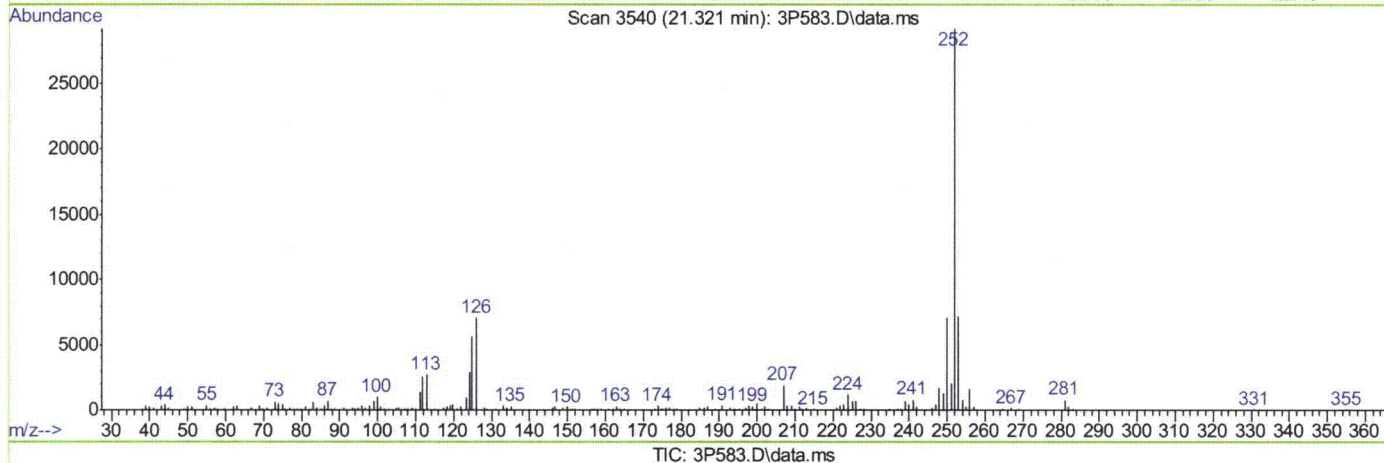
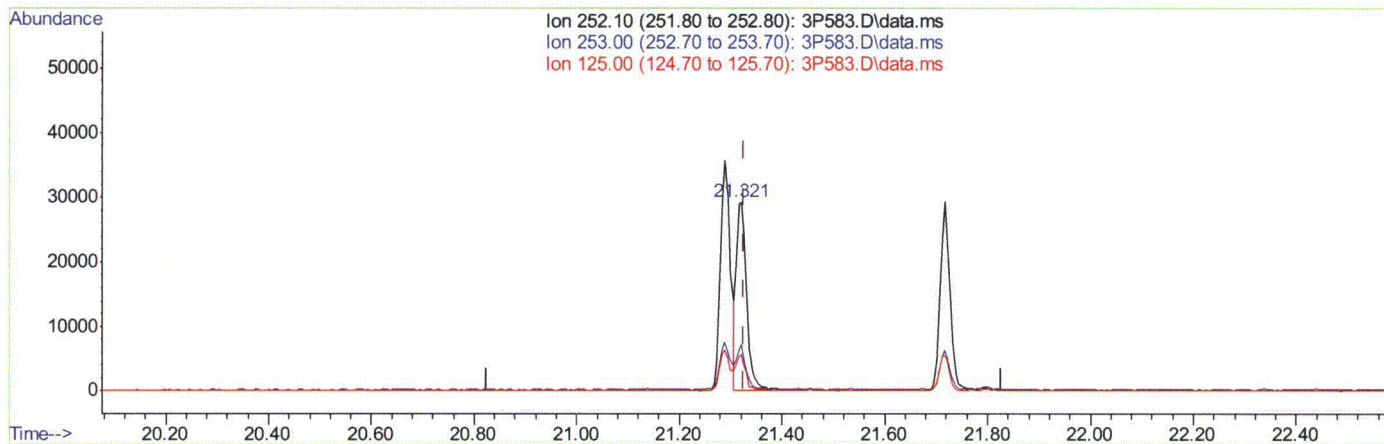
response 47424

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	20.86
125.00	15.70	17.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\27\
Data File : 3P583.D
Acq On : 25 Oct 2010 4:30 pm
Operator : kristis
Sample : ic27-10
Misc : op46181,e3p27,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 25 16:57:21 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Oct 25 16:30:05 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.321min (-0.005) 9.74ppb m

response 41609

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	24.67
125.00	14.40	19.43
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P594.D
 Acq On : 25 Oct 2010 9:21 pm
 Operator : kristis
 Sample : ic28-100
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 08:46:14 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

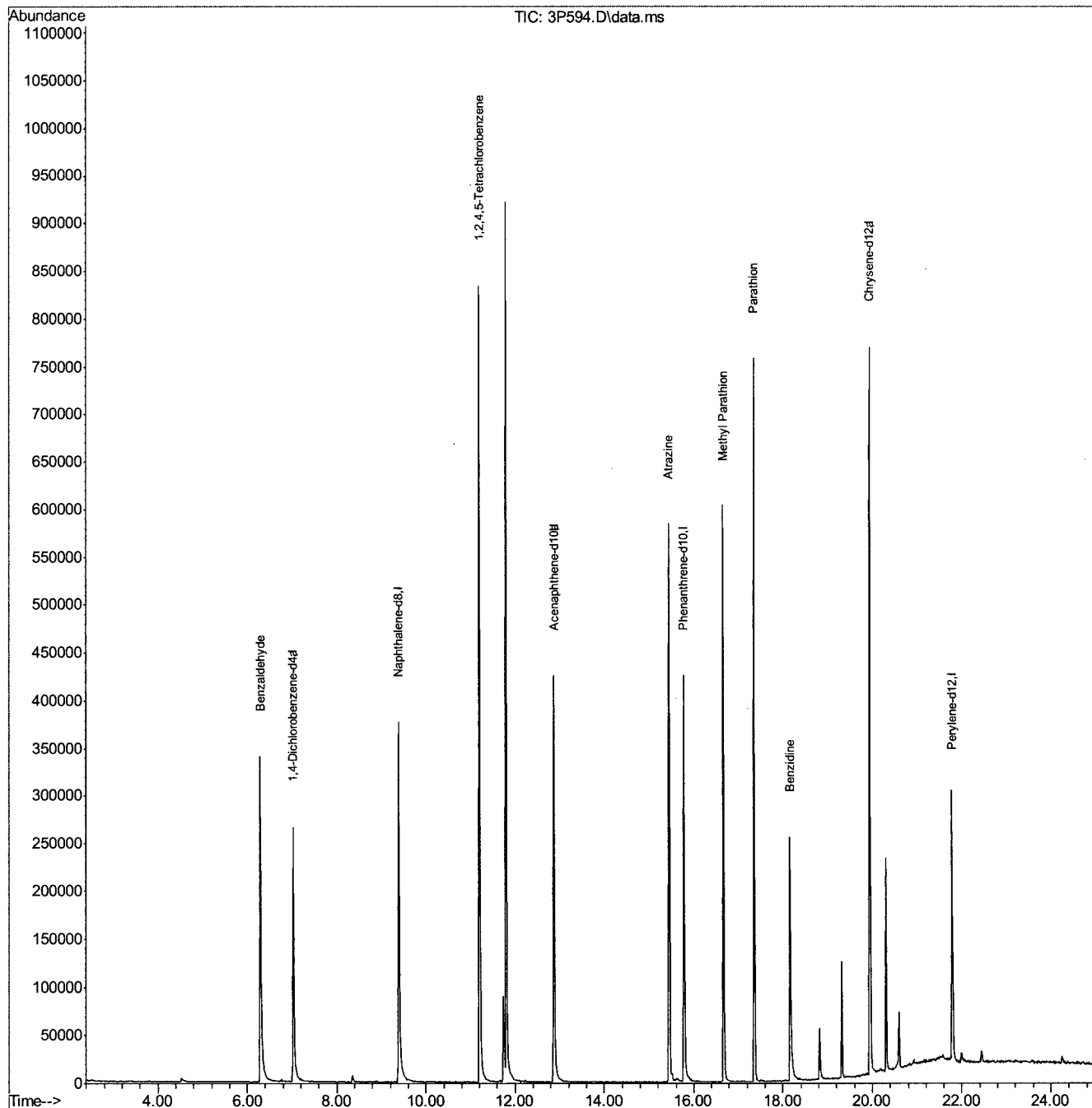
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.029	152	86481	40.00	ppb	0.00
24) Naphthalene-d8	9.393	136	313974	40.00	ppb	0.00
47) Acenaphthene-d10	12.875	164	168226	40.00	ppb	0.00
69) Phenanthrene-d10	15.790	188	271553	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	239378	40.00	ppb	0.00
92) Perylene-d12	21.797	264	162005	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.029	152	86481	40.00	ppb	0.00
104) Acenaphthene-d10a	12.875	164	168226	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	239378	40.00	ppb	0.00
110) Acenaphthene-d10b	12.875	164	168226	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.297	105	127919	85.30	ppb	Qvalue 100
105) Atrazine	15.464	215	59166	91.17	ppb	100
107) Benzidine	18.165	184	189111	78.13	ppb	100
108) Methyl Parathion	16.673	TIC	779679	77.86	ppb	100
109) Parathion	17.363	TIC	889228	78.74	ppb	100
111) 1,2,4,5-Tetrachloroben...	11.207	216	256219	90.54	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P594.D
Acq On : 25 Oct 2010 9:21 pm
Operator : kristis
Sample : ic28-100
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 08:46:14 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P595.D
 Acq On : 25 Oct 2010 9:52 pm
 Operator : kristis
 Sample : ic28-80
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 08:46:51 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

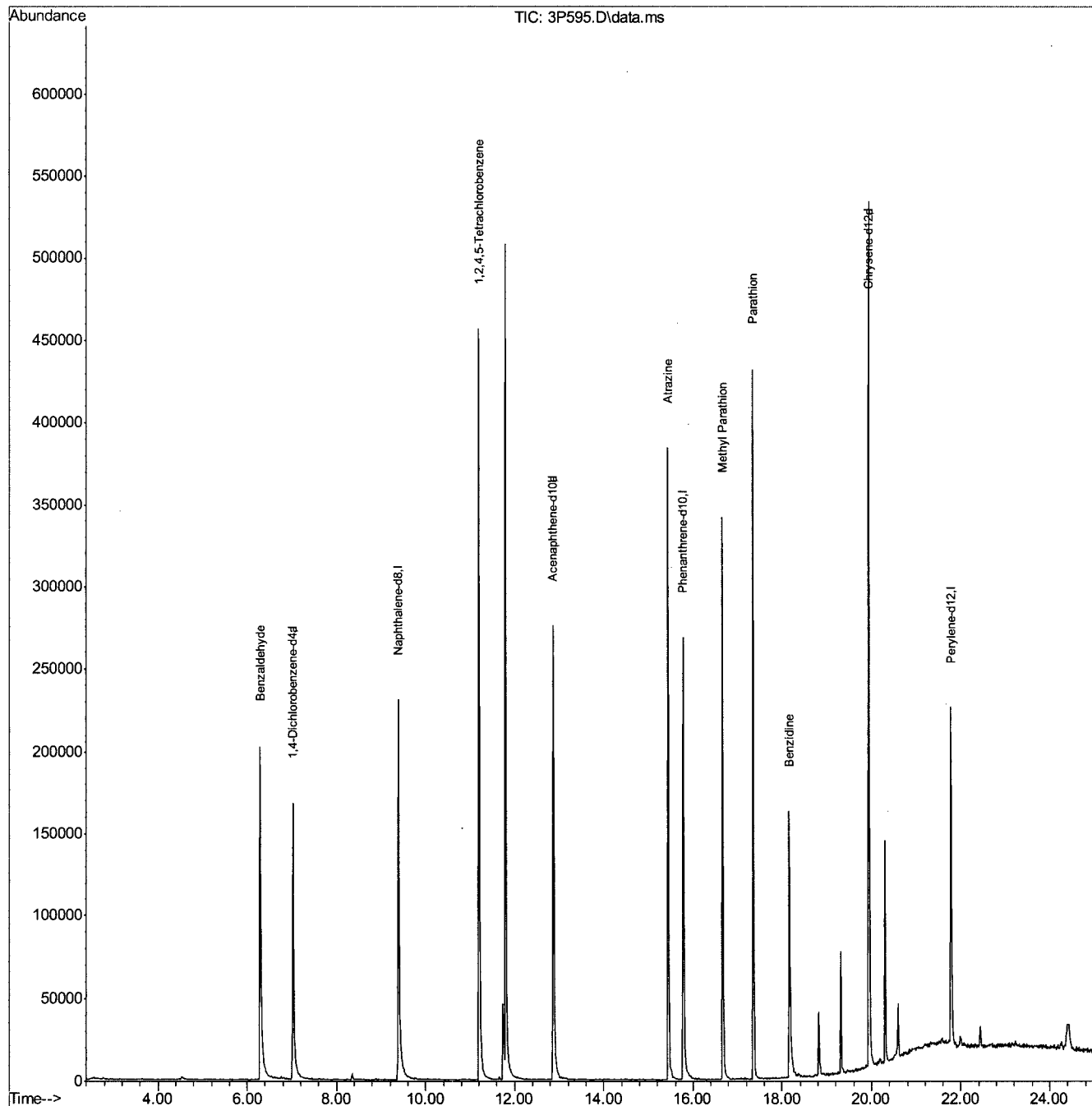
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.024	152	52884	40.00	ppb	0.00
24) Naphthalene-d8	9.393	136	212153	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	111955	40.00	ppb	0.00
69) Phenanthrene-d10	15.790	188	180980	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	168446	40.00	ppb	0.00
92) Perylene-d12	21.797	264	119567	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.024	152	52884	40.00	ppb	0.00
104) Acenaphthene-d10a	12.870	164	111955	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	168446	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	111955	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.291	105	87465	95.38	ppb	Qvalue 96
105) Atrazine	15.453	215	35823	82.95	ppb	94
107) Benzdine	18.165	184	123292	72.39	ppb	98
108) Methyl Parathion	16.673	TIC	475952	67.54	ppb	100
109) Parathion	17.358	TIC	548964	69.08	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.207	216	147342	78.24	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P595.D
Acq On : 25 Oct 2010 9:52 pm
Operator : kristis
Sample : ic28-80
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 08:46:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P596.D
 Acq On : 25 Oct 2010 10:22 pm
 Operator : kristis
 Sample : ic28-50
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 08:47:24 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	62021	40.00	ppb	-0.01
24) Naphthalene-d8	9.394	136	231753	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	124200	40.00	ppb	0.00
69) Phenanthrene-d10	15.791	188	206523	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	204473	40.00	ppb	0.00
92) Perylene-d12	21.797	264	145134	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	62021	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	124200	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	204473	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	124200	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.297	105	50092	46.58	ppb	Qvalue 95
105) Atrazine	15.454	215	24386	50.90	ppb	95
107) Benzydine	18.176	184	53881	26.06	ppb	98
108) Methyl Parathion	16.668	TIC	327603	38.30	ppb	98
109) Parathion	17.358	TIC	383118	39.72	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.207	216	95557	45.74	ppb	97

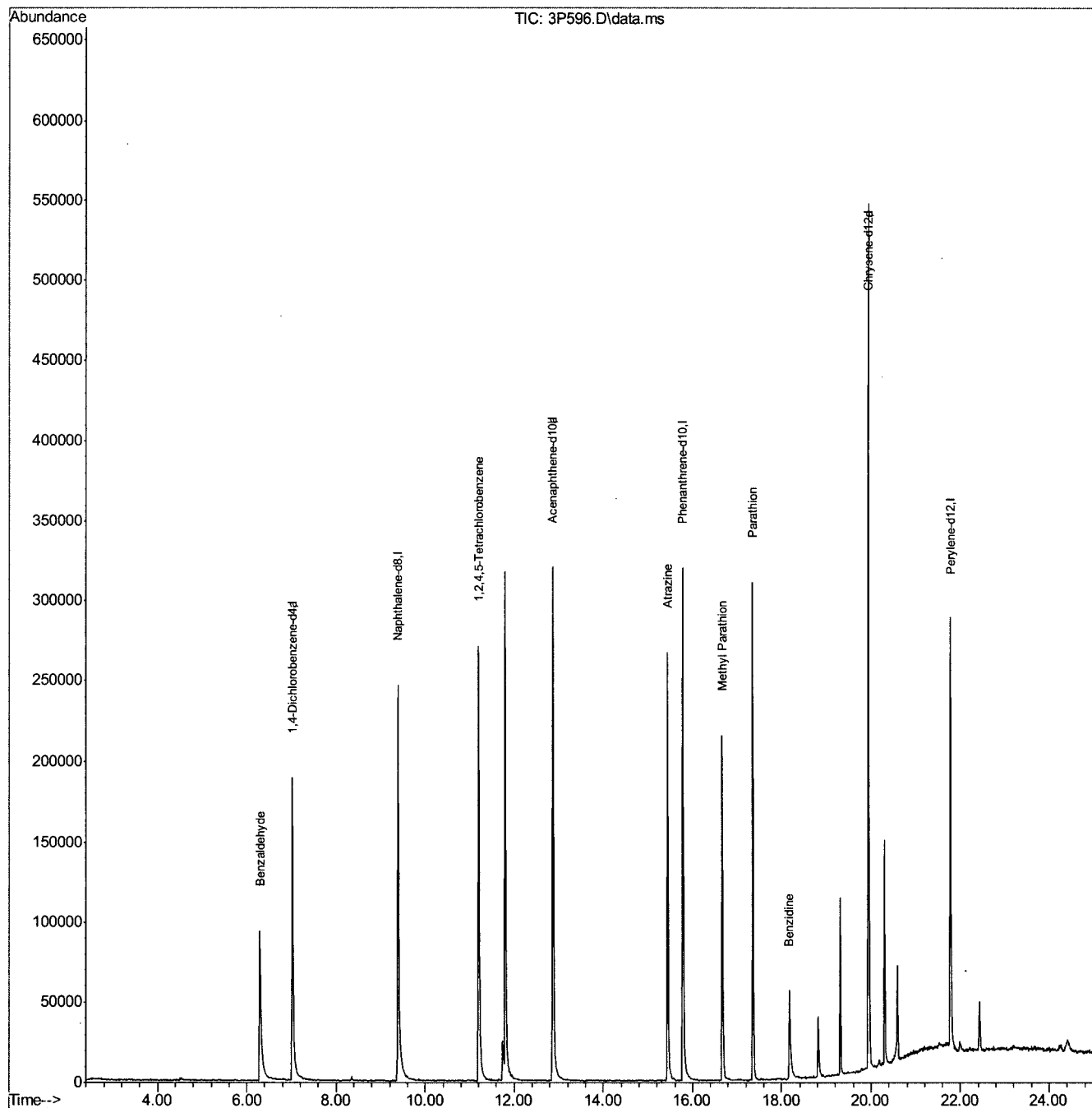
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.11
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P596.D
Acq On : 25 Oct 2010 10:22 pm
Operator : kristis
Sample : ic28-50
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 08:47:24 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P597.D
 Acq On : 25 Oct 2010 10:53 pm
 Operator : kristis
 Sample : icc28-25
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 08:47:54 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	70373	40.00	ppb	-0.01
24) Naphthalene-d8	9.393	136	263217	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	144247	40.00	ppb	0.00
69) Phenanthrene-d10	15.790	188	234836	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	239503	40.00	ppb	0.00
92) Perylene-d12	21.797	264	170275	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	70373	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	144247	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	239503	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	144247	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.297	105	35999	29.50	ppb	Qvalue 93
105) Atrazine	15.448	215	13915	25.01	ppb	94
107) Benzidine	18.171	184	89099	36.79	ppb	99
108) Methyl Parathion	16.673	TIC	182401	18.20	ppb	99
109) Parathion	17.358	TIC	216884	19.19	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.207	216	54299	22.38	ppb	95

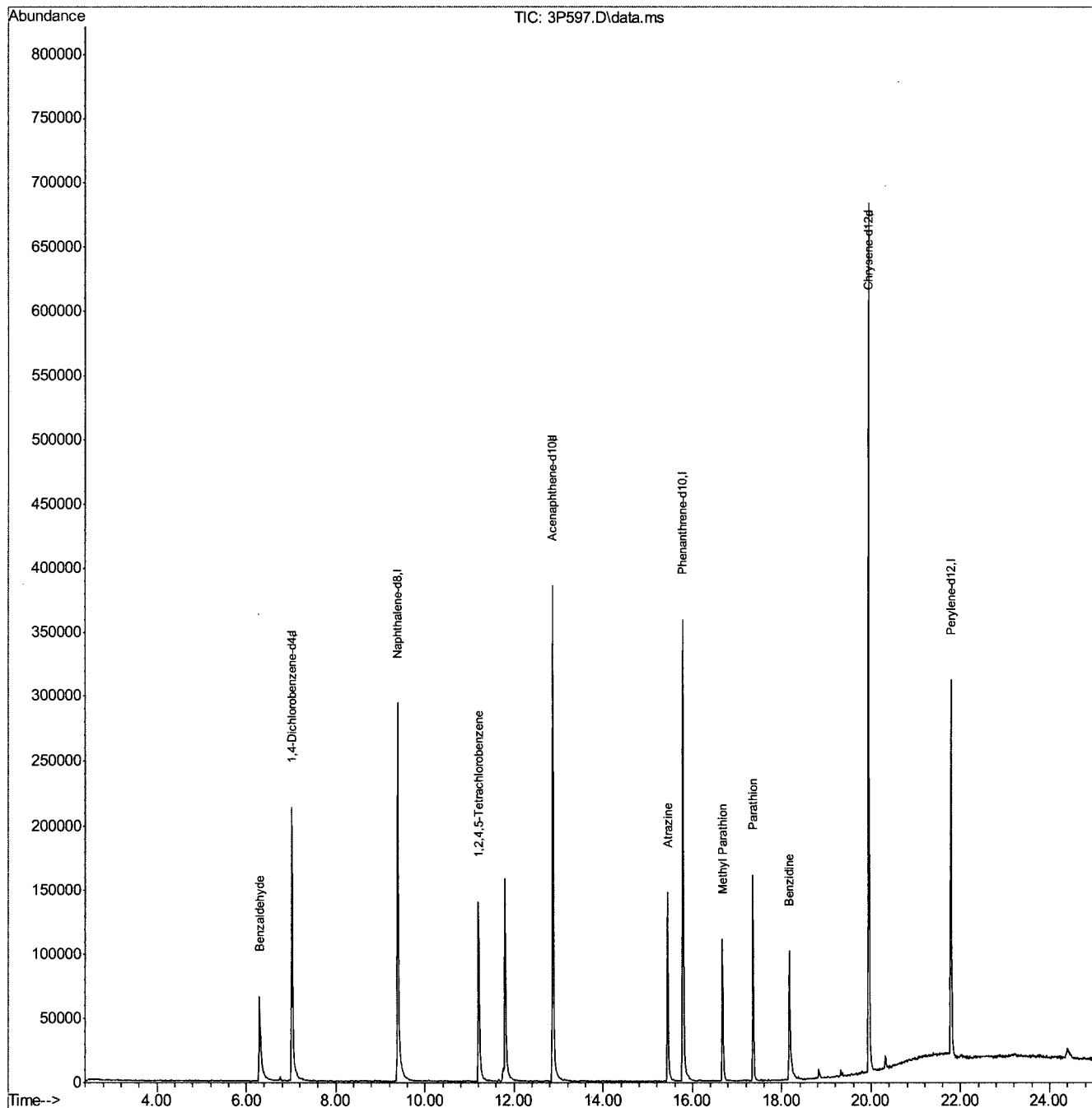
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.12
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P597.D
Acq On : 25 Oct 2010 10:53 pm
Operator : kristis
Sample : icc28-25
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 26 08:47:54 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P598.D
 Acq On : 25 Oct 2010 11:24 pm
 Operator : kristis
 Sample : ic28-10
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 08:55:57 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

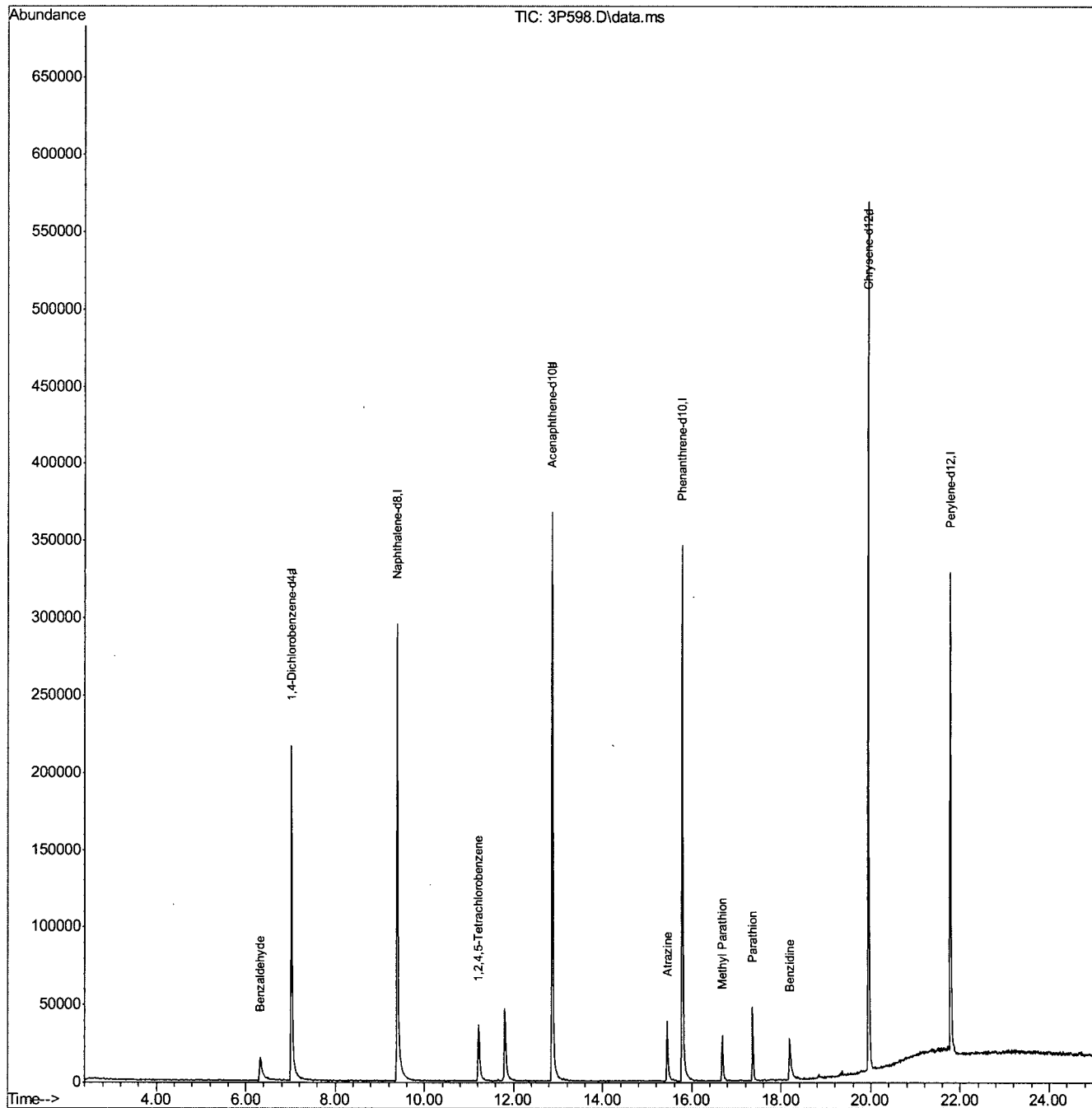
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	70157	40.00	ppb	-0.01
24) Naphthalene-d8	9.394	136	257307	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	140268	40.00	ppb	0.00
69) Phenanthrene-d10	15.791	188	235080	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	236725	40.00	ppb	0.00
92) Perylene-d12	21.792	264	167987	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	70157	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	140268	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	236725	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	140268	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.324	105	11504	9.46	ppb	Qvalue 95
105) Atrazine	15.448	215	4481	8.28	ppb	89
107) Benzidine	18.187	184	33045	13.81	ppb	97
108) Methyl Parathion	16.679	TIC	63376	6.40	ppb	98
109) Parathion	17.358	TIC	78157	7.00	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.212	216	18732	7.94	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P598.D
Acq On : 25 Oct 2010 11:24 pm
Operator : kristis
Sample : ic28-10
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 08:55:57 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P599.D
 Acq On : 25 Oct 2010 11:54 pm
 Operator : kristis
 Sample : ic28-5
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 08:57:06 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	80416	40.00	ppb	-0.01
24) Naphthalene-d8	9.394	136	300796	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	166508	40.00	ppb	0.00
69) Phenanthrene-d10	15.791	188	272998	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	277907	40.00	ppb	0.00
92) Perylene-d12	21.792	264	189346	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	80416	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	166508	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	277907	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	166508	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.340	105	7843	5.62	ppb	Qvalue 81
105) Atrazine	15.454	215	2962	4.61	ppb	88
107) Benzidine	18.203	184	20635	7.34	ppb	96
108) Methyl Parathion	16.684	TIC	35767	3.08	ppb	99
109) Parathion	17.363	TIC	46768	3.57	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.228	216	11771	4.20	ppb	93

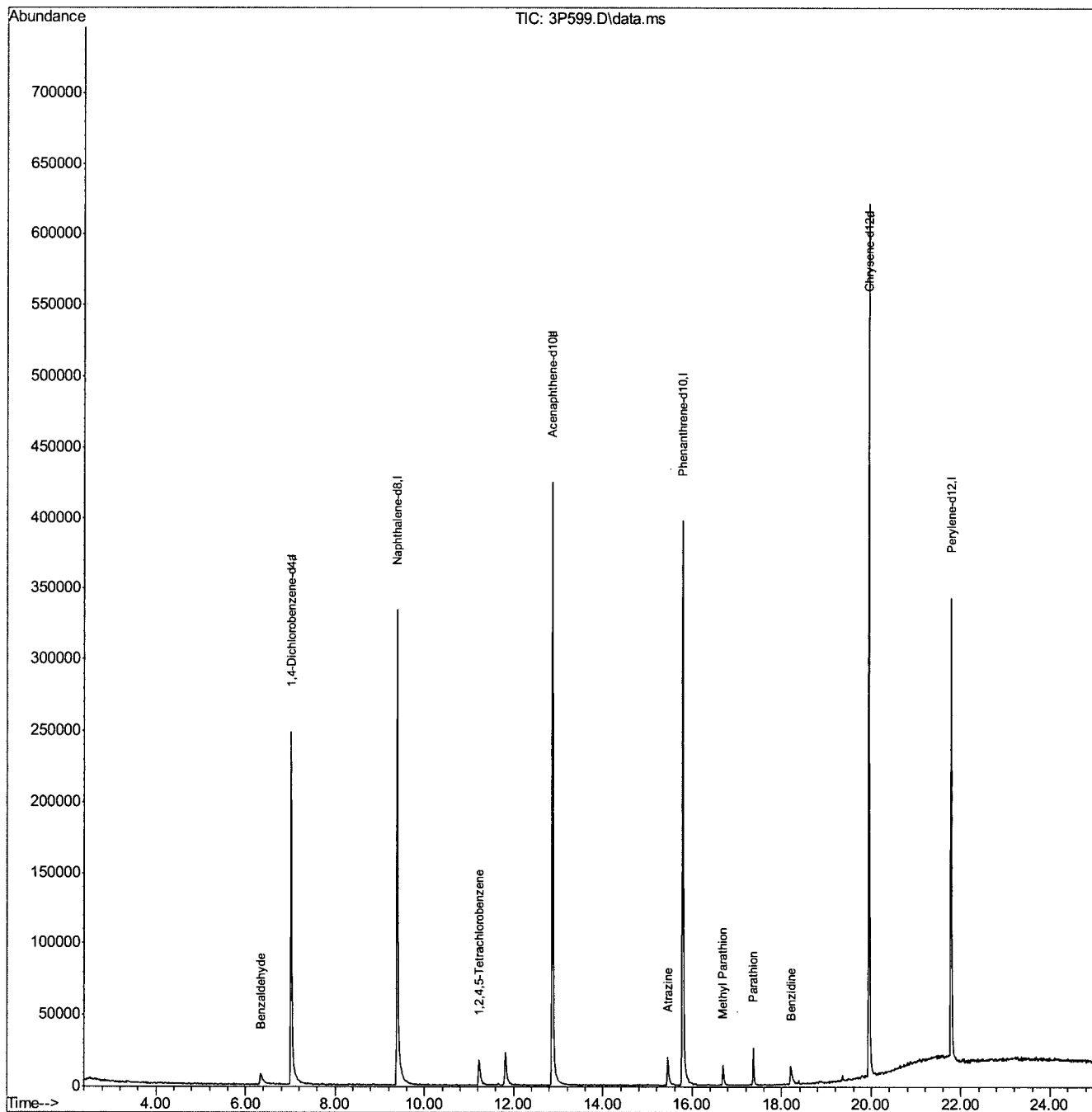
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.14
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P599.D
Acq On : 25 Oct 2010 11:54 pm
Operator : kristis
Sample : ic28-5
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 08:57:06 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P600.D
 Acq On : 26 Oct 2010 12:25 am
 Operator : kristis
 Sample : ic28-2
 Misc : op46181,e3p28,1000,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 18:23:11 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	73492	40.00	ppb	-0.01
24) Naphthalene-d8	9.394	136	266225	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	145058	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	235599	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	236808	40.00	ppb	0.00
92) Perylene-d12	21.792	264	164117	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	73492	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	145058	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	236808	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	145058	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.393	105	1942	1.52	ppb	Qvalue 75
105) Atrazine	15.480	215	891	1.59	ppb	# 65
107) Benizidine	18.235	184	7005	2.93	ppb	84
108) Methyl Parathion	16.700	TIC	8153	0.82	ppb	# 87
109) Parathion	17.368	TIC	12690	1.14	ppb	# 92
111) 1,2,4,5-Tetrachloroben...	11.239	216	4078	1.67	ppb	82

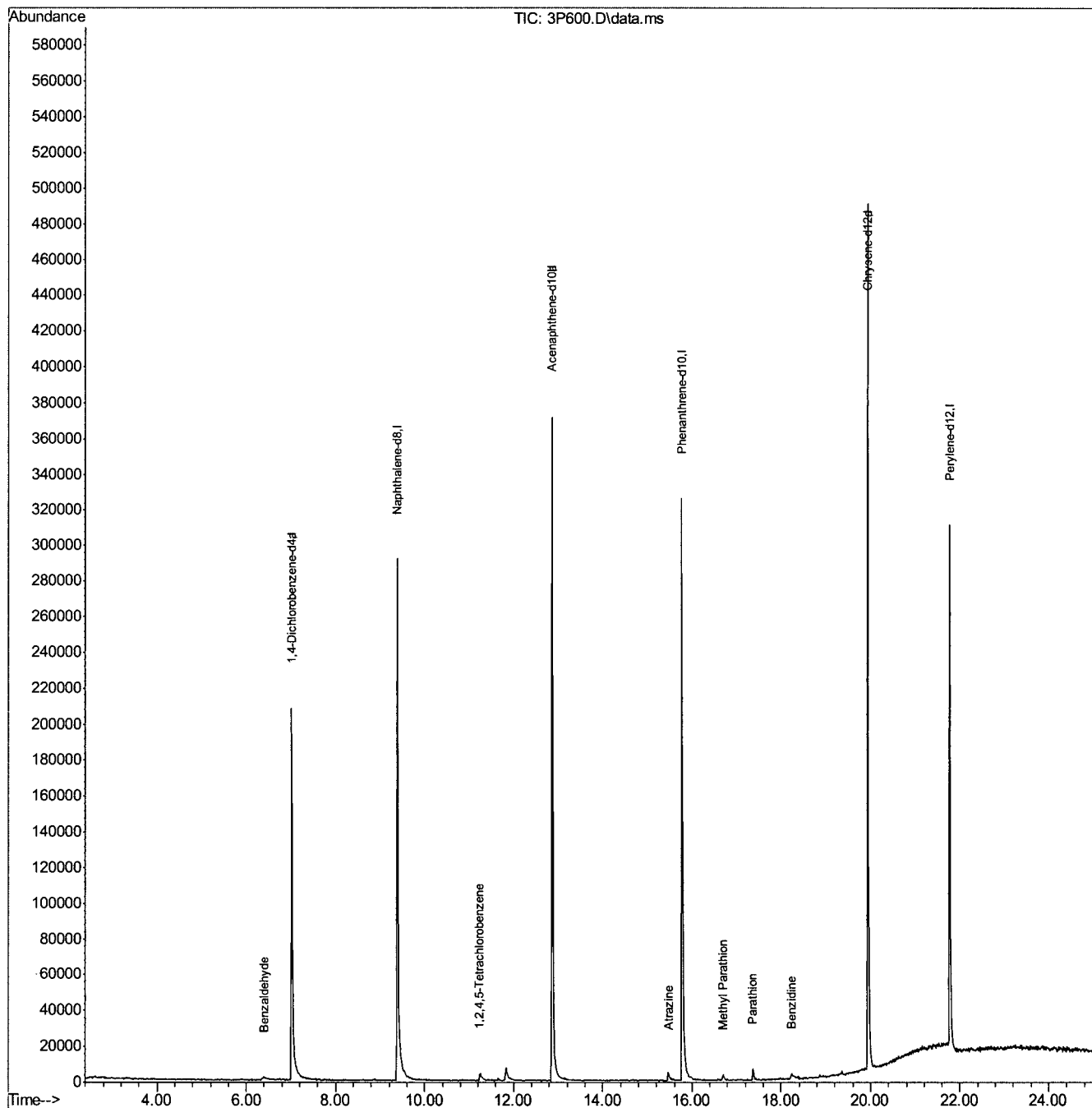
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.15
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P600.D
Acq On : 26 Oct 2010 12:25 am
Operator : kristis
Sample : ic28-2
Misc : op46181,e3p28,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 18:23:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P602.D
 Acq On : 26 Oct 2010 1:26 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p28,acid
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 18:27:08 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

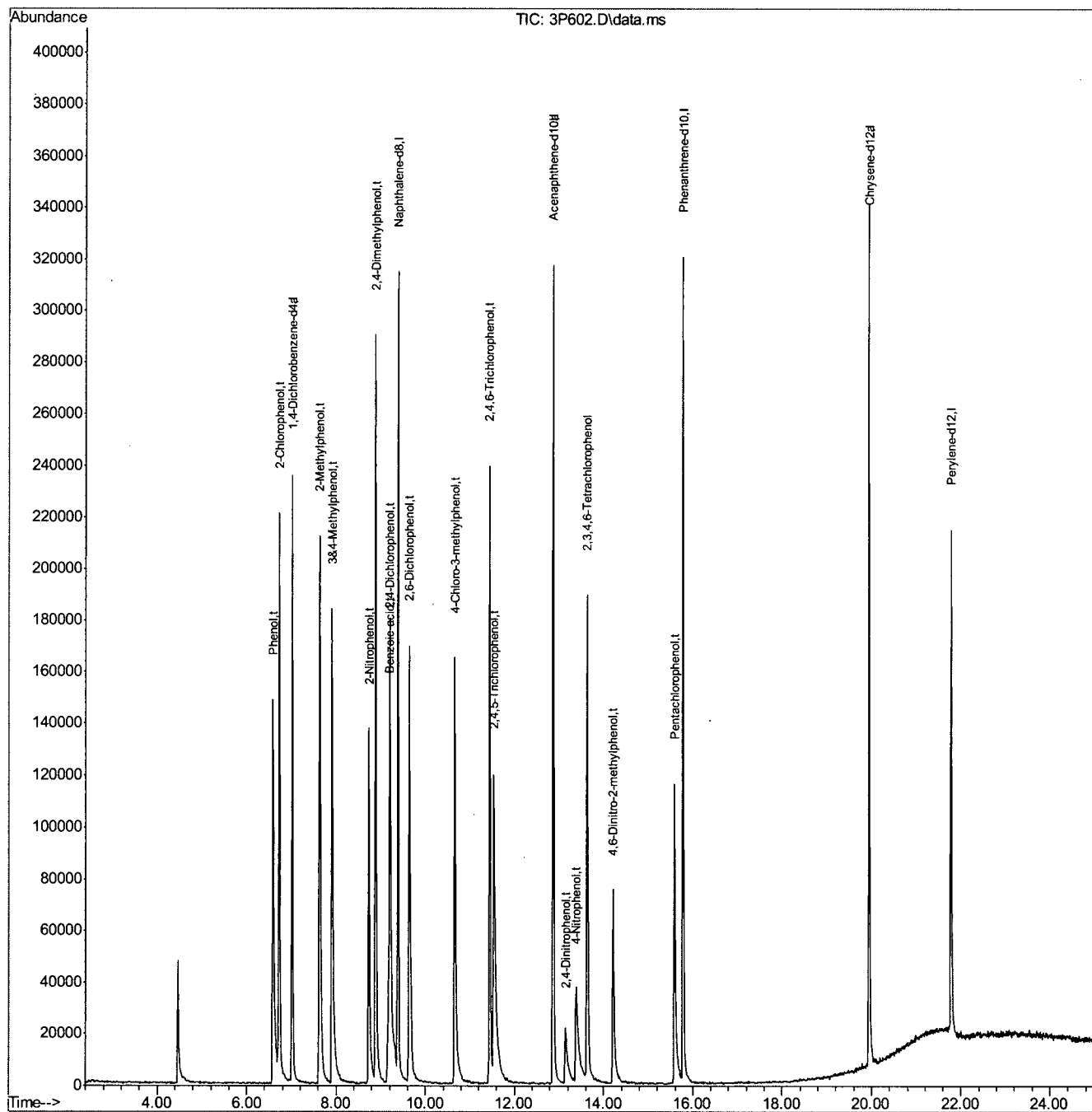
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	58357	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	211722	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	117708	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	184961	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	176873	40.00	ppb	0.00
92) Perylene-d12	21.786	264	115624	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.019	152	58357	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	117708	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	176873	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	117708	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
9) Phenol	6.585	94	134795	50.14	ppb	Qvalue 96
12) 2-Chlorophenol	6.725	128	106642	53.21	ppb	97
19) 2-Methylphenol	7.628	108	95058	50.43	ppb	97
21) 3&4-Methylphenol	7.907	108	98140	52.53	ppb	97
29) 2-Nitrophenol	8.736	139	57594	53.09	ppb	# 70
30) 2,4-Dimethylphenol	8.885	107	98912	60.17	ppb	99
31) Benzoic acid	9.196	105	47893	45.56	ppb	96
33) 2,4-Dichlorophenol	9.206	162	85511	56.14	ppb	98
34) 2,6-Dichlorophenol	9.640	162	87763	57.01	ppb	98
43) 4-Chloro-3-methylphenol	10.661	107	83356	56.08	ppb	98
49) 2,4,6-Trichlorophenol	11.442	196	58358	53.45	ppb	99
50) 2,4,5-Trichlorophenol	11.538	196	69812	59.81	ppb	98
60) 2,4-Dinitrophenol	13.154	184	13192	48.69	ppb	# 98
61) 4-Nitrophenol	13.389	109	20653	41.84	ppb	92
64) 2,3,4,6-Tetrachlorophenol	13.635	232	48831	54.60	ppb	95
70) 4,6-Dinitro-2-methylph...	14.218	198	27804	40.06	ppb	98
76) Pentachlorophenol	15.593	266	35985	44.19	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P602.D
Acq On : 26 Oct 2010 1:26 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p28,acid
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 18:27:08 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P603.D
 Acq On : 26 Oct 2010 1:56 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p28,bn#1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 29 09:31:08 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	73745	40.00	ppb	-0.01
24) Naphthalene-d8	9.394	136	256918	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	134553	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	215006	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	188932	40.00	ppb	0.00
92) Perylene-d12	21.792	264	105471	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	73745	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	134553	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	188932	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	134553	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
3) Pyridine	3.082	79	128489	55.80	ppb	Qvalue 93
4) N-Nitrosodimethylamine	3.082	42	58727	47.19	ppb	91
11) bis(2-Chloroethyl)ether	6.666	93	126427	48.45	ppb	93
14) 1,3-Dichlorobenzene	6.949	146	147306	51.55	ppb	100
15) 1,4-Dichlorobenzene	7.046	146	153258	50.78	ppb	99
16) Benzyl alcohol	7.356	108	81253	48.72	ppb	84
17) 1,2-Dichlorobenzene	7.377	146	142723	50.00	ppb	97
20) 2,2'-oxybis(1-Chloropr...	7.639	121	38312	50.54	ppb	# 79
22) n-Nitroso-di-n-propyla...	7.896	70	90534	47.70	ppb	94
23) Hexachloroethane	7.923	201	53832	51.49	ppb	92
26) Nitrobenzene	8.126	123	63233	54.92	ppb	# 76
28) Isophorone	8.570	82	245286	52.87	ppb	99
32) bis(2-Chloroethoxy)met...	9.057	93	155697	52.89	ppb	98
36) 1,2,4-Trichlorobenzene	9.329	180	116322	54.68	ppb	97
42) Hexachlorobutadiene	9.811	225	69266	55.94	ppb	100
44) 2-Methylnaphthalene	10.790	142	217822	47.05	ppb	97
52) 2-Chloronaphthalene	11.736	162	212651	50.44	ppb	97
54) 2-Nitroaniline	12.063	65	63097	44.06	ppb	91
55) Dimethylphthalate	12.523	163	224220	51.86	ppb	99
57) 2,6-Dinitrotoluene	12.646	165	49040	52.10	ppb	95
58) 3-Nitroaniline	12.902	138	52881	45.06	ppb	94
62) Dibenzofuran	13.255	168	279852	49.18	ppb	100
63) 2,4-Dinitrotoluene	13.421	165	61205	48.41	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P603.D
 Acq On : 26 Oct 2010 1:56 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p28,bn#1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 29 09:31:08 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Diethylphthalate	13.945	149	228481	48.11	ppb	98
67) 4-Chlorophenyl-phenyle...	13.993	204	101035	50.97	ppb	99
68) 4-Nitroaniline	14.132	138	54899	46.18	ppb	94
71) n-Nitrosodiphenylamine	14.256	169	141464	43.37	ppb	97
72) 1,2-Diphenylhydrazine	14.298	77	251375	40.34	ppb	96
74) 4-Bromophenyl-phenylether	14.951	248	66590	49.99	ppb	96
75) Hexachlorobenzene	15.202	284	79959	48.86	ppb	97
79) Carbazole	16.283	167	277407	47.33	ppb	99
80) Di-n-butylphthalate	17.085	149	372999	44.60	ppb	99
86) Butylbenzylphthalate	19.299	149	156451	46.65	ppb	94
91) bis(2-Ethylhexyl)phtha...	20.102	149	167102	43.66	ppb	99
93) Di-n-octylphthalate	20.845	149	286804	46.52	ppb	95

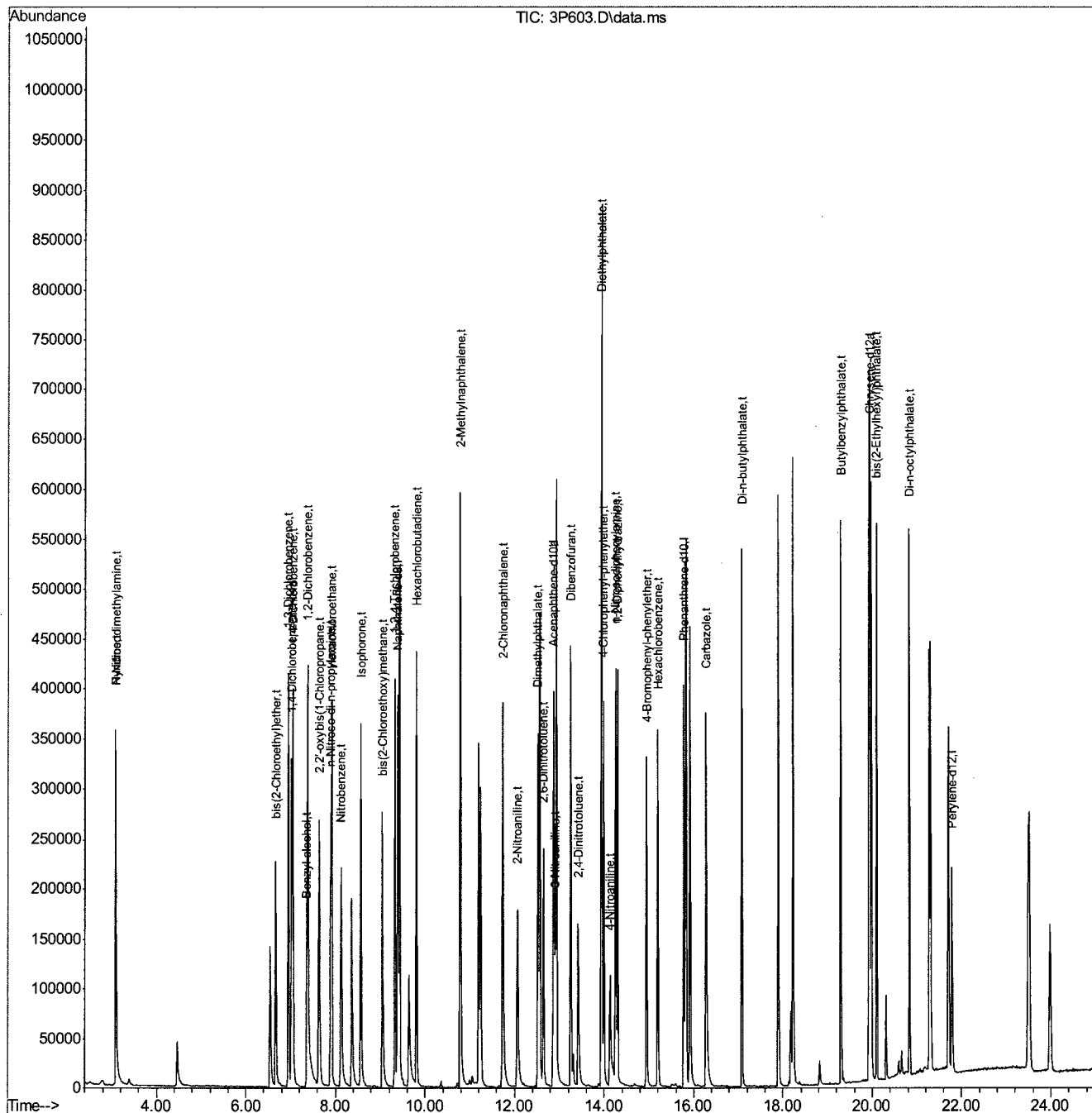
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.17
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P603.D
Acq On : 26 Oct 2010 1:56 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p28,bn#1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 29 09:31:08 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
Qlast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P603a.D
 Acq On : 26 Oct 2010 1:56 am
 Operator : kristis
 Sample : icv28-50
 Misc : op46181,e3p28,bn#1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 18:38:46 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

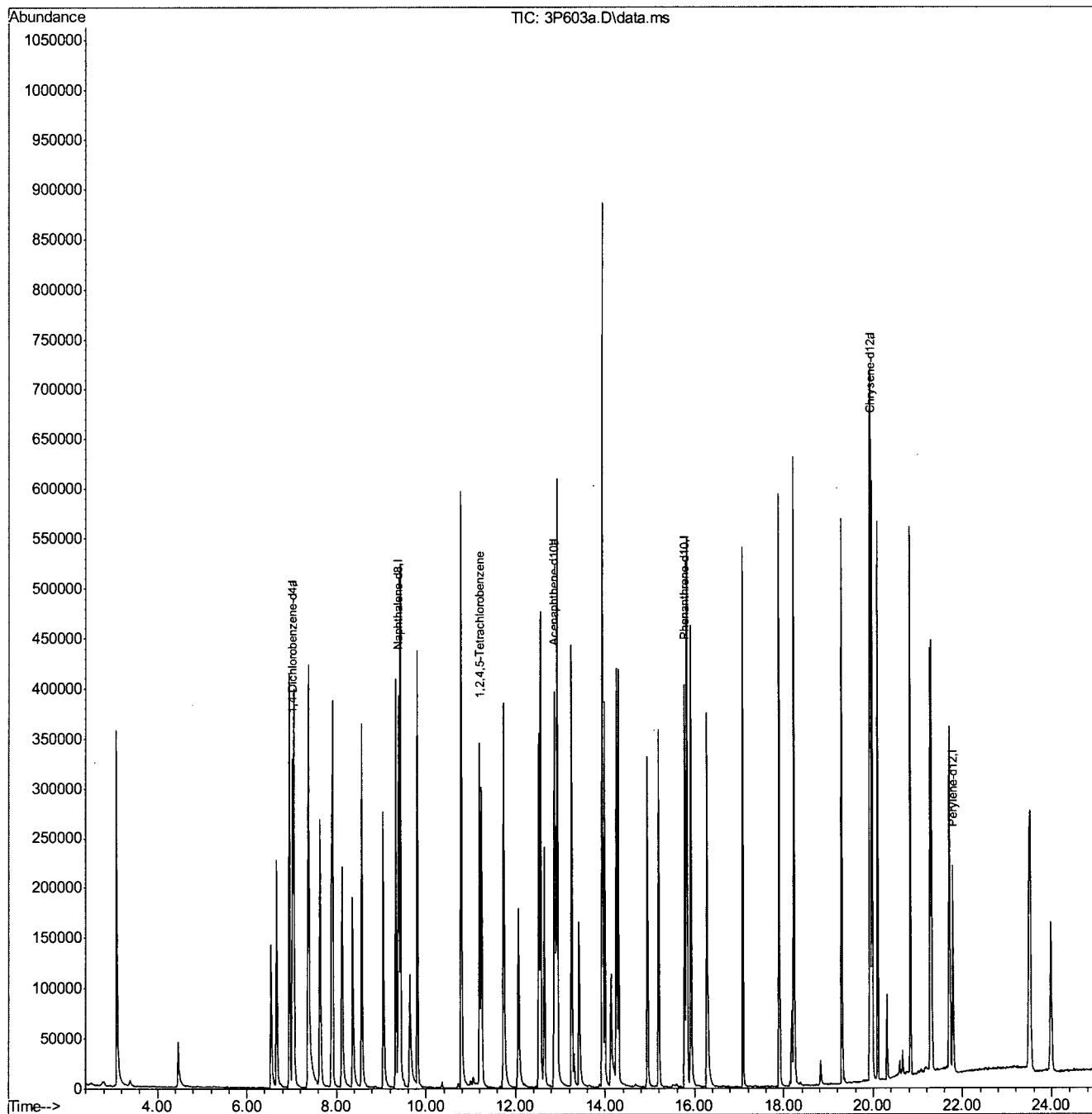
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	73745	40.00	ppb	-0.01
24) Naphthalene-d8	9.394	136	256918	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	134553	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	215006	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	188932	40.00	ppb	0.00
92) Perylene-d12	21.792	264	105471	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	73745	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	134553	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	188932	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	134553	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
111) 1,2,4,5-Tetrachloroben...	11.201	216	107230	53.81	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P603a.D
Acq On : 26 Oct 2010 1:56 am
Operator : kristis
Sample : icv28-50
Misc : op46181,e3p28,bn#1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 18:38:46 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P604.D
 Acq On : 26 Oct 2010 2:27 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p28,bn#2
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:42:36 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

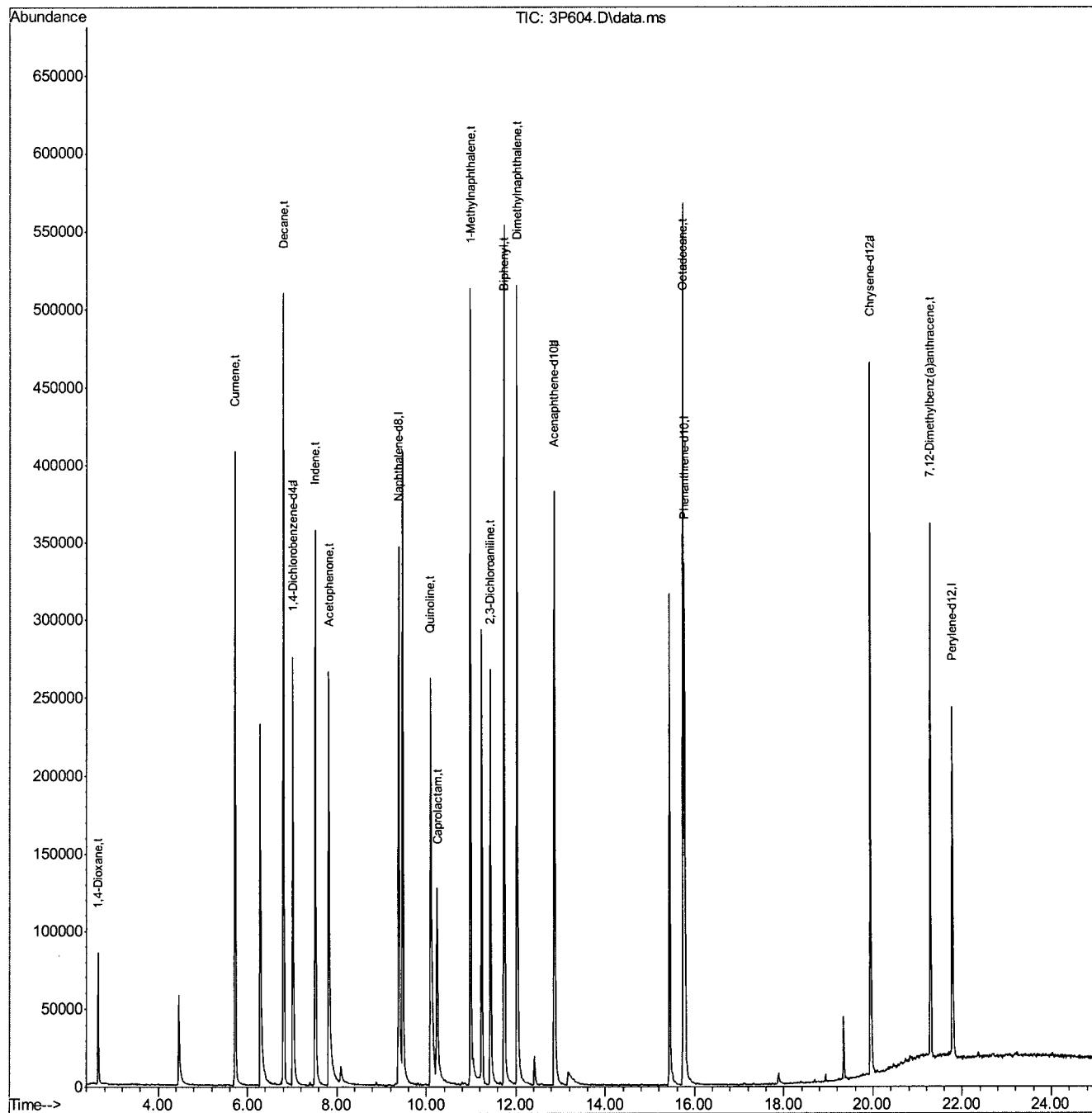
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	76059	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	264979	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	144729	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	218951	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	218990	40.00	ppb	0.00
92) Perylene-d12	21.786	264	127052	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.019	152	76059	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	144729	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	218990	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	144729	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.654	88	37288	49.40	ppb	93
6) Indene	7.522	116	173494	47.31	ppb	95
7) Cumene	5.724	105	220219	43.70	ppb	99
13) Decane	6.816	43	144729	42.67	ppb	95
18) Acetophenone	7.821	105	176568	52.38	ppb	94
27) Quinoline	10.100	129	235954	58.32	ppb	99
40) 2,3-Dichloroaniline	11.437	161	107409	47.37	ppb	98
41) Caprolactam	10.249	55	54218	44.07	ppb	98
45) 1-Methylnaphthalene	10.993	142	223364	50.93	ppb	99
46) Dimethylnaphthalene	12.036	156	194830	53.18	ppb	99
53) Biphenyl	11.747	154	275373	48.82	ppb	99
82) Octadecane	15.753	57	157809	43.33	ppb	95
100) 7,12-Dimethylbenz(a)an...	21.300	256	81351	38.85	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P604.D
Acq On : 26 Oct 2010 2:27 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p28,bn#2
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:42:36 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P604a.D
 Acq On : 26 Oct 2010 2:27 am
 Operator : kristis
 Sample : icv28-50
 Misc : op46181,e3p28,bn#2
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:45:22 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	76170	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	264979	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	144729	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	219736	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	219461	40.00	ppb	0.00
92) Perylene-d12	21.786	264	127052	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.019	152	76170	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	144729	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	219461	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	144729	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.286	105	93726	68.37	ppb	Qvalue 94
105) Atrazine	15.454	215	28541	54.94	ppb	98

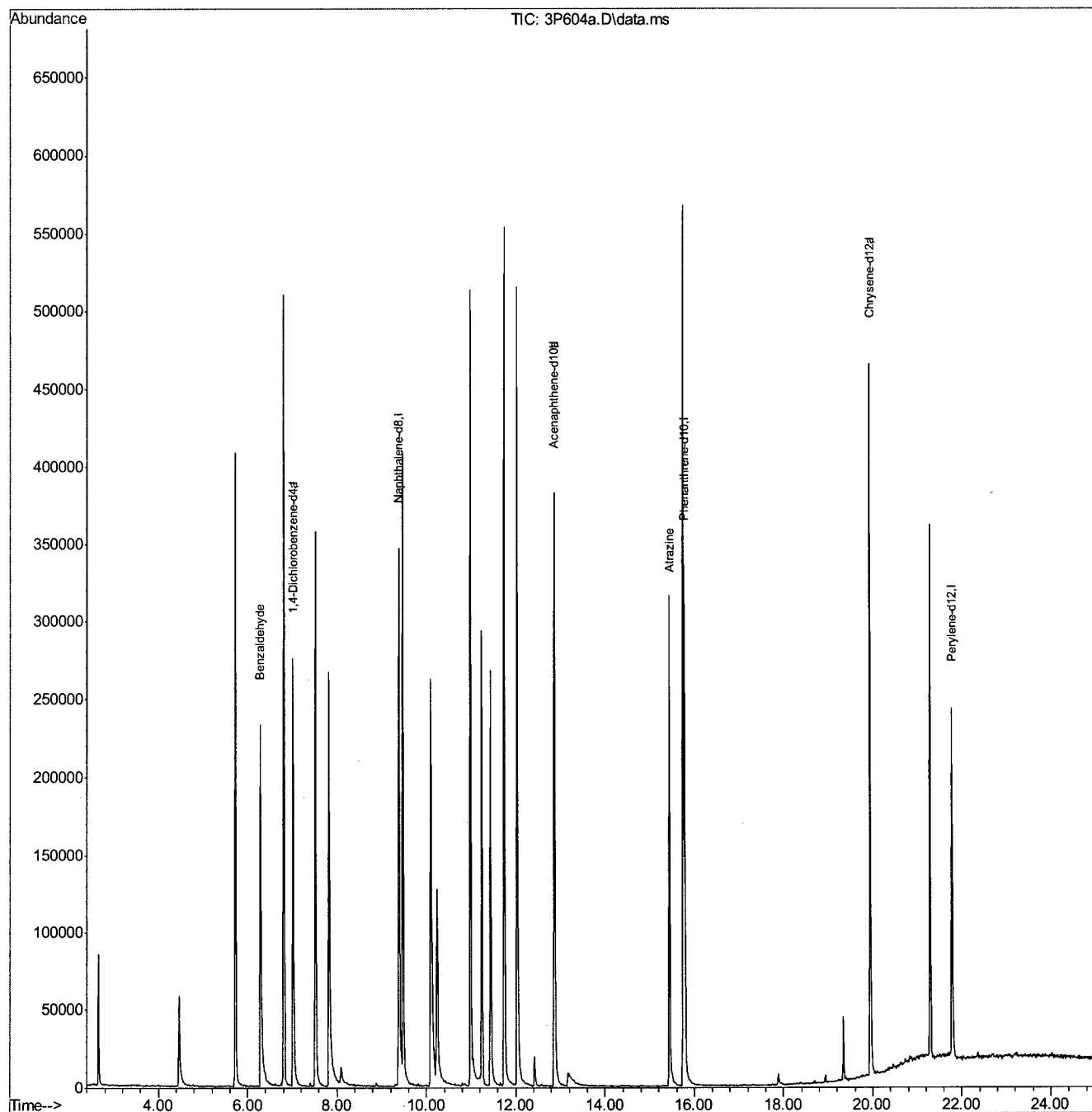
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.20
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P604a.D
Acq On : 26 Oct 2010 2:27 am
Operator : kristis
Sample : icv28-50
Misc : op46181,e3p28,bn#2
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 18:45:22 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
Qlast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P605.D
 Acq On : 26 Oct 2010 2:57 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p28,3rd source
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 09:31:28 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	64228	40.00	ppb	-0.01
24) Naphthalene-d8	9.393	136	233165	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	127642	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	209505	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	207360	40.00	ppb	0.00
92) Perylene-d12	21.792	264	150201	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	64228	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	127642	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	207360	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	127642	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
89) 3,3'-Dichlorobenzidine	19.941	252	110262	48.45	ppb	Qvalue 96

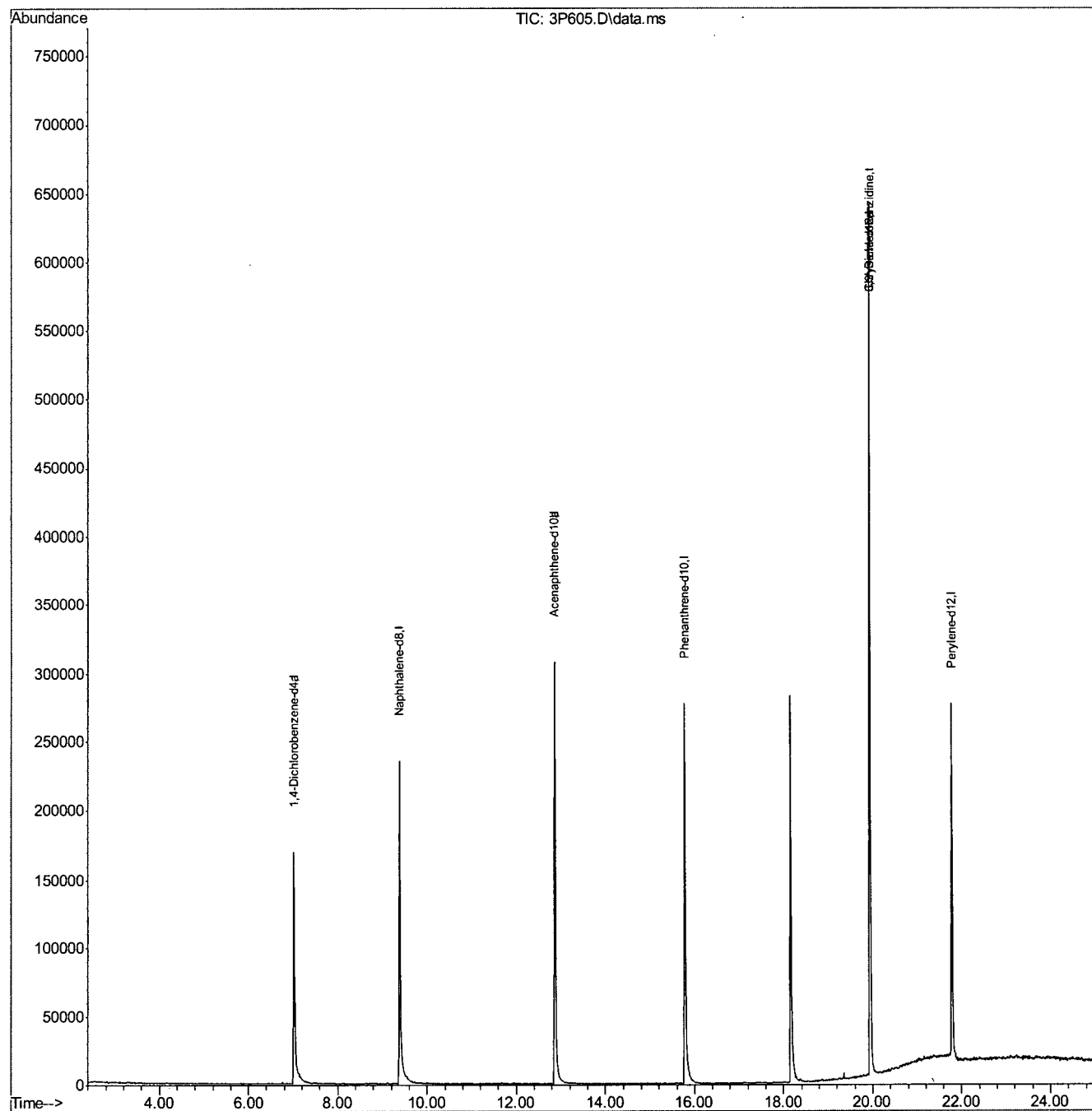
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.21
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P605.D
Acq On : 26 Oct 2010 2:57 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p28,3rd source
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 09:31:28 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P605a.D
 Acq On : 26 Oct 2010 2:57 am
 Operator : kristis
 Sample : icv28-50
 Misc : op46181,e3p28,3rd source
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 09:31:41 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	64228	40.00	ppb	-0.01
24) Naphthalene-d8	9.393	136	233165	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	127642	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	209505	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	207360	40.00	ppb	0.00
92) Perylene-d12	21.792	264	150201	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	64228	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	127642	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	207360	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	127642	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
107) Benzidine	18.160	184	198986	83.13	ppb	Qvalue 99

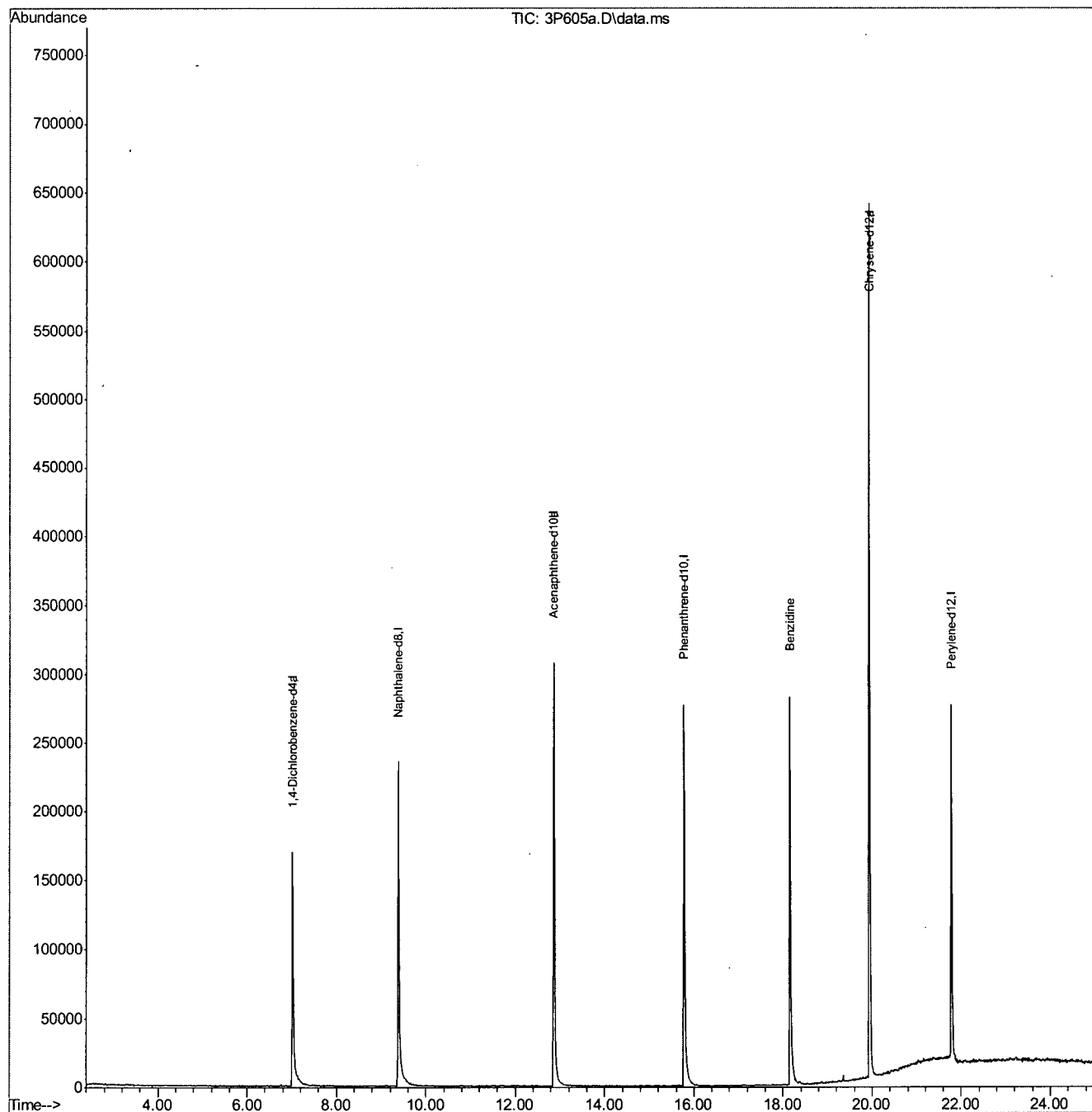
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.22
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P605a.D
Acq On : 26 Oct 2010 2:57 am
Operator : kristis
Sample : icv28-50
Misc : op46181,e3p28,3rd source
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 09:31:41 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
 Data File : 3P606.D
 Acq On : 26 Oct 2010 3:28 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p28,
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 26 18:50:49 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	80321	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	293291	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	157387	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	270573	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	268708	40.00	ppb	0.00
92) Perylene-d12	21.786	264	186524	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.019	152	80321	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	157387	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	268708	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	157387	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
10) Aniline	6.532	93	185756	50.86	ppb	Qvalue 95
39) 4-Chloroaniline	9.634	127	154506	47.61	ppb	99

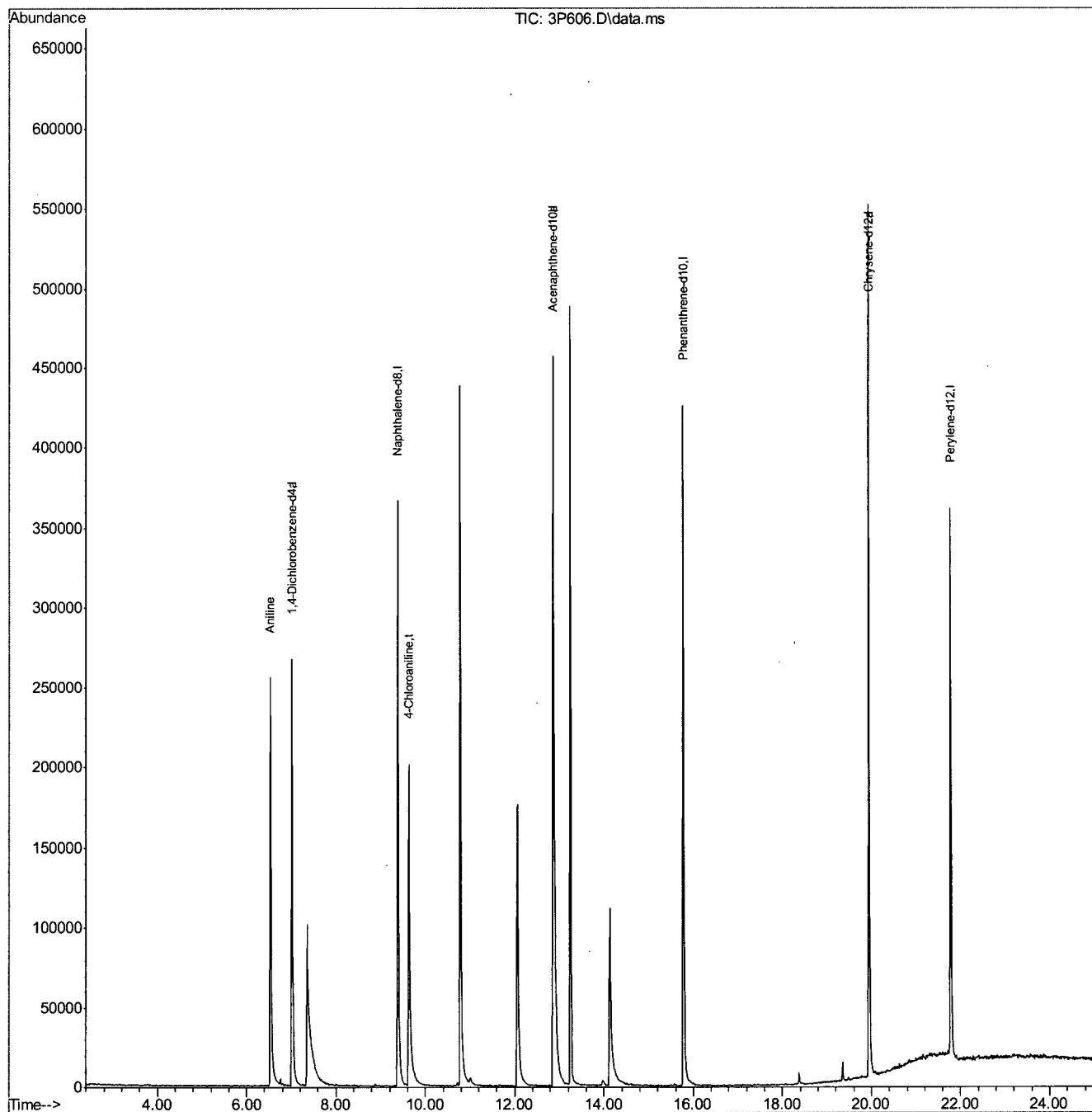
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.23
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\28\
Data File : 3P606.D
Acq On : 26 Oct 2010 3:28 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p28,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 26 18:50:49 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P608.D
 Acq On : 26 Oct 2010 9:06 am
 Operator : kristis
 Sample : cc27-50
 Misc : op46181,e3p29,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 09:27:28 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.014	152	94158	40.00	ppb	-0.02
24) Naphthalene-d8	9.394	136	328668	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	180701	40.00	ppb	0.00
69) Phenanthrene-d10	15.791	188	272525	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	265594	40.00	ppb	0.00
92) Perylene-d12	21.792	264	151628	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.014	152	94158	40.00	ppb	-0.02
104) Acenaphthene-d10a	12.870	164	180701	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	265594	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	180701	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.992	112	142691	51.10	ppb	-0.10
Spiked Amount 50.000			Recovery	=	102.20%	
8) Phenol-d5	6.559	99	186228	45.61	ppb	-0.06
Spiked Amount 50.000			Recovery	=	91.22%	
25) Nitrobenzene-d5	8.094	82	162557	45.65	ppb	-0.03
Spiked Amount 50.000			Recovery	=	91.30%	
51) 2-Fluorobiphenyl	11.587	172	315993	48.49	ppb	0.00
Spiked Amount 50.000			Recovery	=	96.98%	
73) 2,4,6-Tribromophenol	14.475	330	58152	57.24	ppb	-0.04
Spiked Amount 50.000			Recovery	=	114.48%	
85) Terphenyl-d14	18.529	244	263954	48.94	ppb	-0.01
Spiked Amount 50.000			Recovery	=	97.88%	
Target Compounds						
2) 1,4-Dioxane	2.638	88	51707	55.34	ppb	Qvalue 100
3) Pyridine	3.072	79	146376	49.78	ppb	100
4) N-Nitrosodimethylamine	3.066	42	64567	40.64	ppb	# 76
6) Indene	7.522	116	207156	45.63	ppb	99
7) Cumene	5.719	105	295715	47.40	ppb	97
9) Phenol	6.580	94	198032	45.66	ppb	94
10) Aniline	6.537	93	188360	43.99	ppb	99
11) bis(2-Chloroethyl)ether	6.666	93	142858	42.88	ppb	100
12) 2-Chlorophenol	6.719	128	153997	47.62	ppb	98
13) Decane	6.810	43	158924	37.85	ppb	95
14) 1,3-Dichlorobenzene	6.949	146	173525	47.56	ppb	99
15) 1,4-Dichlorobenzene	7.046	146	177282	46.01	ppb	98
16) Benzyl alcohol	7.361	108	100591	47.29	ppb	90
17) 1,2-Dichlorobenzene	7.377	146	171209	46.97	ppb	99
18) Acetophenone	7.827	105	194970	46.72	ppb	98
19) 2-Methylphenol	7.634	108	131633	43.28	ppb	97
20) 2,2'-oxybis(1-Chloropr...	7.639	121	43462	44.90	ppb	93
21) 3&4-Methylphenol	7.907	108	141175	46.84	ppb	97
22) n-Nitroso-di-n-propyla...	7.901	70	106022	43.75	ppb	94
23) Hexachloroethane	7.917	201	63324	47.44	ppb	95
26) Nitrobenzene	8.126	123	72611	49.30	ppb	97
27) Quinoline	10.121	129	252861	50.39	ppb	99
28) Isophorone	8.581	82	270047	45.50	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P608.D
 Acq On : 26 Oct 2010 9:06 am
 Operator : kristis
 Sample : cc27-50
 Misc : op46181,e3p29,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 09:27:28 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.730	139	82890	49.22	ppb	97
30) 2,4-Dimethylphenol	8.886	107	131104	51.38	ppb	97
31) Benzoic acid	9.223	105	92083	56.43	ppb	94
32) bis(2-Chloroethoxy)met...	9.057	93	174820	46.42	ppb	97
33) 2,4-Dichlorophenol	9.206	162	124494	52.65	ppb	96
34) 2,6-Dichlorophenol	9.634	162	125160	52.38	ppb	97
35) 1,3,5-Trichlorobenzene	8.730	180	140152	51.16	ppb	97
36) 1,2,4-Trichlorobenzene	9.329	180	135433	49.77	ppb	97
37) 1,2,3-Trichlorobenzene	9.795	180	131943	51.10	ppb	99
38) Naphthalene	9.431	128	432371	47.40	ppb	99
39) 4-Chloroaniline	9.634	127	173949	47.83	ppb	95
40) 2,3-Dichloroaniline	11.437	161	142777	50.77	ppb	99
41) Caprolactam	10.308	55	63453	41.58	ppb	97
42) Hexachlorobutadiene	9.811	225	82362	52.00	ppb	98
43) 4-Chloro-3-methylphenol	10.672	107	118541	51.37	ppb	99
44) 2-Methylnaphthalene	10.790	142	285161	48.15	ppb	98
45) 1-Methylnaphthalene	10.993	142	260536	47.90	ppb	98
46) Dimethylnaphthalene	12.036	156	222383	48.94	ppb	99
48) Hexachlorocyclopentadiene	11.244	237	140357	100.11	ppb	98
49) 2,4,6-Trichlorophenol	11.448	196	87911	52.45	ppb	98
50) 2,4,5-Trichlorophenol	11.538	196	94530	52.76	ppb	95
52) 2-Chloronaphthalene	11.736	162	271693	47.99	ppb	100
53) Biphenyl	11.747	154	332779	47.26	ppb	99
54) 2-Nitroaniline	12.063	65	81637	42.45	ppb	94
55) Dimethylphthalate	12.528	163	284989	49.09	ppb	98
56) Acenaphthylene	12.560	152	424275	47.71	ppb	99
57) 2,6-Dinitrotoluene	12.646	165	63185	49.99	ppb	91
58) 3-Nitroaniline	12.902	138	78329	49.70	ppb	100
59) Acenaphthene	12.934	153	267090	47.44	ppb	98
60) 2,4-Dinitrophenol	13.116	184	62035	116.30	ppb #	100
61) 4-Nitrophenol	13.368	109	34979	46.15	ppb	93
62) Dibenzofuran	13.255	168	372096	48.69	ppb	99
63) 2,4-Dinitrotoluene	13.421	165	86619	51.01	ppb	89
64) 2,3,4,6-Tetrachlorophenol	13.635	232	78953	57.51	ppb	97
65) Diethylphthalate	13.951	149	308630	48.39	ppb	99
66) Fluorene	13.940	166	300348	49.24	ppb	98
67) 4-Chlorophenyl-phenyle...	13.993	204	136815	51.39	ppb	96
68) 4-Nitroaniline	14.138	138	81261	50.90	ppb	94
70) 4,6-Dinitro-2-methylph...	14.224	198	50541	48.14	ppb	98
71) n-Nitrosodiphenylamine	14.261	169	201704	48.78	ppb	98
72) 1,2-Diphenylhydrazine	14.298	77	322024	40.77	ppb	94
74) 4-Bromophenyl-phenylether	14.951	248	89831	53.20	ppb	96
75) Hexachlorobenzene	15.197	284	110601	53.33	ppb	99
76) Pentachlorophenol	15.593	266	128738	96.30	ppb	97
77) Phenanthrene	15.833	178	360178	46.38	ppb	99
78) Anthracene	15.919	178	363321	46.77	ppb	100
79) Carbazole	16.283	167	353372	47.57	ppb	99
80) Di-n-butylphthalate	17.085	149	502996	47.45	ppb	100
81) Fluoranthene	17.898	202	440827	51.26	ppb	98
82) Octadecane	15.753	57	178938	39.48	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P608.D
Acq On : 26 Oct 2010 9:06 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 09:27:28 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration

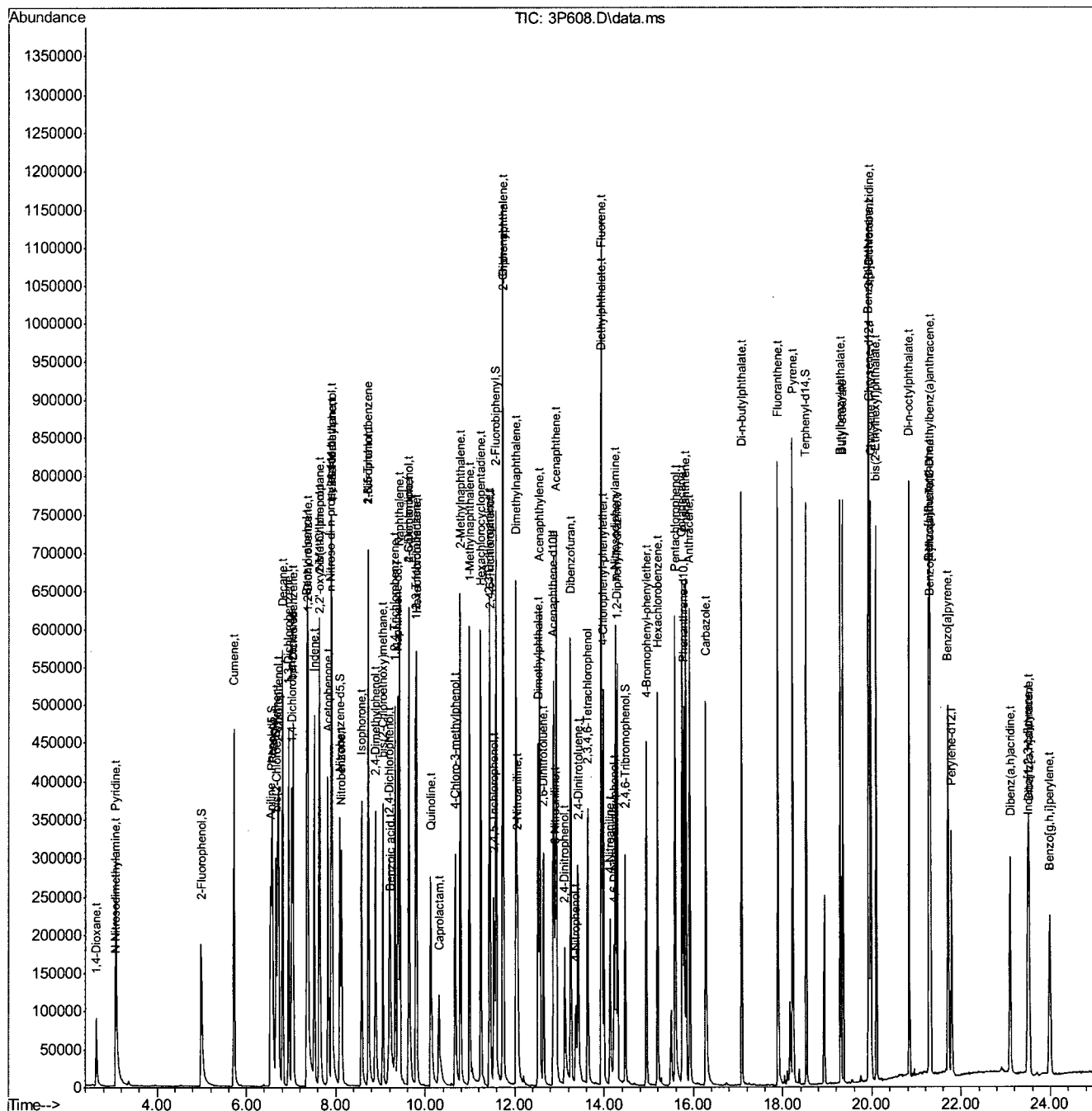
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.230	202	445598	47.53	ppb	98
86) Butylbenzylphthalate	19.299	149	208834	44.30	ppb	94
87) Butyl stearate	19.358	56	123676	38.50	ppb	97
88) Benzo[a]anthracene	19.930	228	347610	46.23	ppb	100
89) 3,3'-Dichlorobenzidine	19.941	252	143813	49.34	ppb	96
90) Chrysene	19.989	228	296114	46.34	ppb	99
91) bis(2-Ethylhexyl)phtha...	20.102	149	217397	40.40	ppb	98
93) Di-n-octylphthalate	20.845	149	382252	43.13	ppb	95
94) Benzo[b]fluoranthene	21.289	252	328989	54.08	ppb	97
95) Benzo[k]fluoranthene	21.326	252	229122	44.51	ppb	97
96) Benzo[a]pyrene	21.717	252	246251	50.50	ppb	97
97) Indeno[1,2,3-cd]pyrene	23.509	276	234040	58.89	ppb	94
98) Dibenz(a,h)acridine	23.113	279	195021	60.33	ppb	97
99) Dibenz[a,h]anthracene	23.535	278	168135	55.63	ppb	94
100) 7,12-Dimethylbenz(a)an...	21.310	256	111791	44.28	ppb	95
101) Benzo[g,h,i]perylene	23.995	276	181470	59.82	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P608.D
Acq On : 26 Oct 2010 9:06 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 09:27:28 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



8.6.24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P609.D
 Acq On : 26 Oct 2010 9:37 am
 Operator : kristis
 Sample : cc28-50
 Misc : op46181,e3p29,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 09:28:42 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

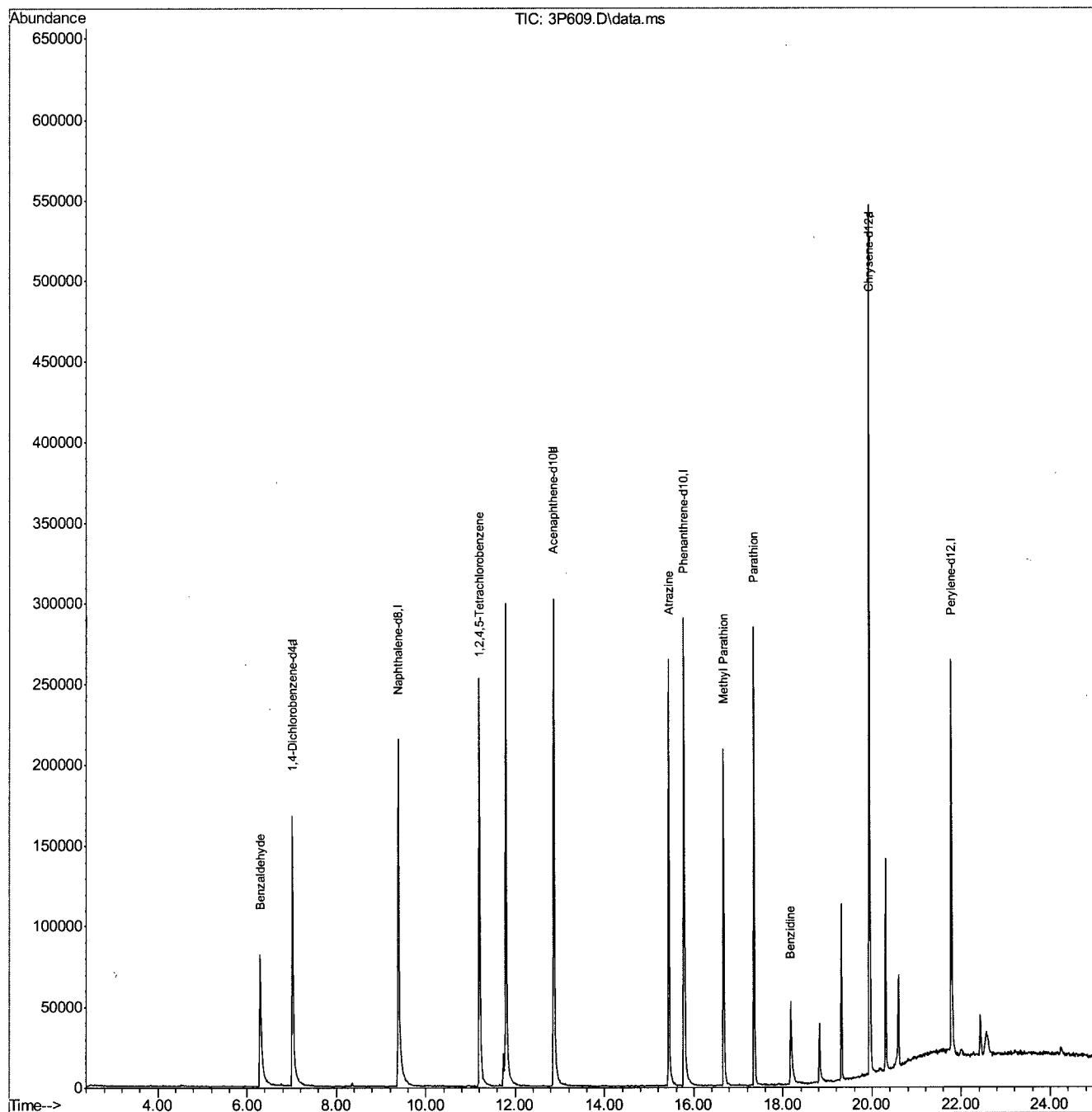
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	63789	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	229586	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	124757	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	204607	40.00	ppb	0.00
83) Chrysene-d12	19.946	240	202724	40.00	ppb	0.00
92) Perylene-d12	21.786	264	142719	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	7.019	152	63789	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	124757	40.00	ppb	0.00
106) Chrysene-d12a	19.946	240	202724	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	124757	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.297	105	51841	45.16	ppb	Qvalue 98
105) Atrazine	15.448	215	23191	51.79	ppb	94
107) Benzidine	18.176	184	59268	25.33	ppb	99
108) Methyl Parathion	16.668	TIC	317251	47.57	ppb	99
109) Parathion	17.358	TIC	381115	53.70	ppb	100
111) 1,2,4,5-Tetrachloroben...	11.207	216	95996	51.95	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P609.D
Acq On : 26 Oct 2010 9:37 am
Operator : kristis
Sample : cc28-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 09:28:42 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
 Data File : 3P610.D
 Acq On : 26 Oct 2010 10:45 am
 Operator : kristis
 Sample : icv27-50
 Misc : op46181,e3p29,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 09:45:47 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

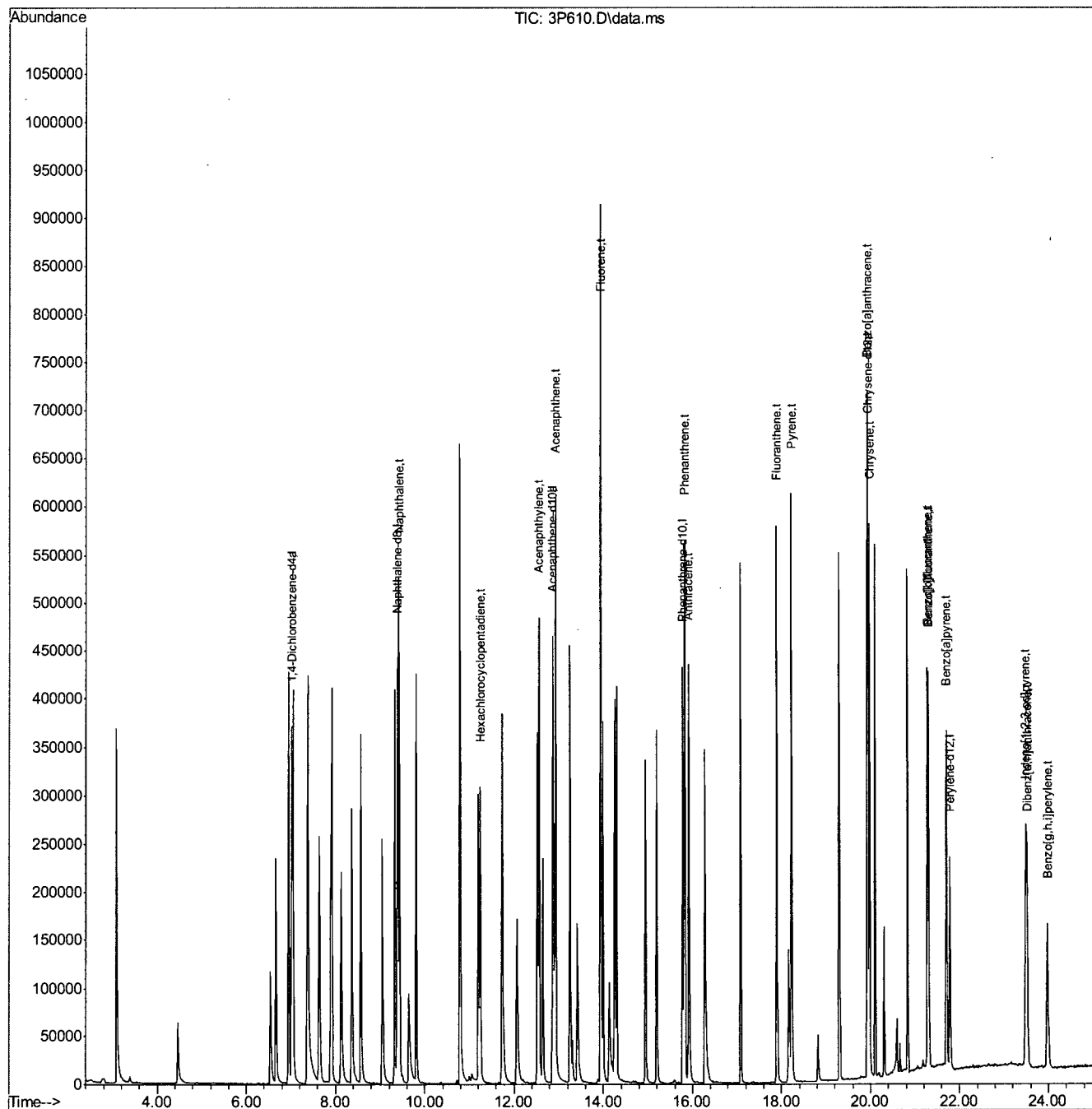
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.019	152	87867	40.00	ppb	-0.01
24) Naphthalene-d8	9.388	136	297275	40.00	ppb	0.00
47) Acenaphthene-d10	12.870	164	155622	40.00	ppb	0.00
69) Phenanthrene-d10	15.785	188	240088	40.00	ppb	0.00
83) Chrysene-d12	19.952	240	213693	40.00	ppb	0.00
92) Perylene-d12	21.792	264	116042	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	7.019	152	87867	40.00	ppb	-0.01
104) Acenaphthene-d10a	12.870	164	155622	40.00	ppb	0.00
106) Chrysene-d12a	19.952	240	213693	40.00	ppb	0.00
110) Acenaphthene-d10b	12.870	164	155622	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
38) Naphthalene	9.426	128	364348	44.16	ppb	Qvalue 100
48) Hexachlorocyclopentadiene	11.244	237	67840	59.47	ppb	96
56) Acenaphthylene	12.560	152	329710	43.05	ppb	100
59) Acenaphthene	12.934	153	214763	44.30	ppb	98
66) Fluorene	13.940	166	229038	43.60	ppb	97
77) Phenanthrene	15.828	178	306085	44.74	ppb	99
78) Anthracene	15.919	178	294571	43.04	ppb	99
81) Fluoranthene	17.898	202	317092	41.85	ppb	98
84) Pyrene	18.230	202	314728	41.72	ppb	99
88) Benzo[a]anthracene	19.930	228	253844	41.95	ppb	98
90) Chrysene	19.984	228	220608	42.91	ppb	98
94) Benzo[b]fluoranthene	21.289	252	206446m	44.34	ppb	
95) Benzo[k]fluoranthene	21.316	252	187607m	47.62	ppb	
96) Benzo[a]pyrene	21.712	252	177269	47.50	ppb	96
97) Indeno[1,2,3-cd]pyrene	23.503	276	180639	59.40	ppb	93
99) Dibenz[a,h]anthracene	23.525	278	136378	58.96	ppb	93
101) Benzo[g,h,i]perylene	23.985	276	133284	57.40	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P610.D
Acq On : 26 Oct 2010 10:45 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 09:45:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: E3P29-ICV27 **Method:** EPA 625
Lab FileID: 3P610.D **Analyst approved:** 10/29/10 09:33 Kristi Schollenberger
Injection Time: 10/26/10 10:45 **Supervisor approved:** 10/29/10 09:50 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.29	Overlapping peak
Benzo(k)fluoranthene	207-08-9		21.32	Overlapping peak

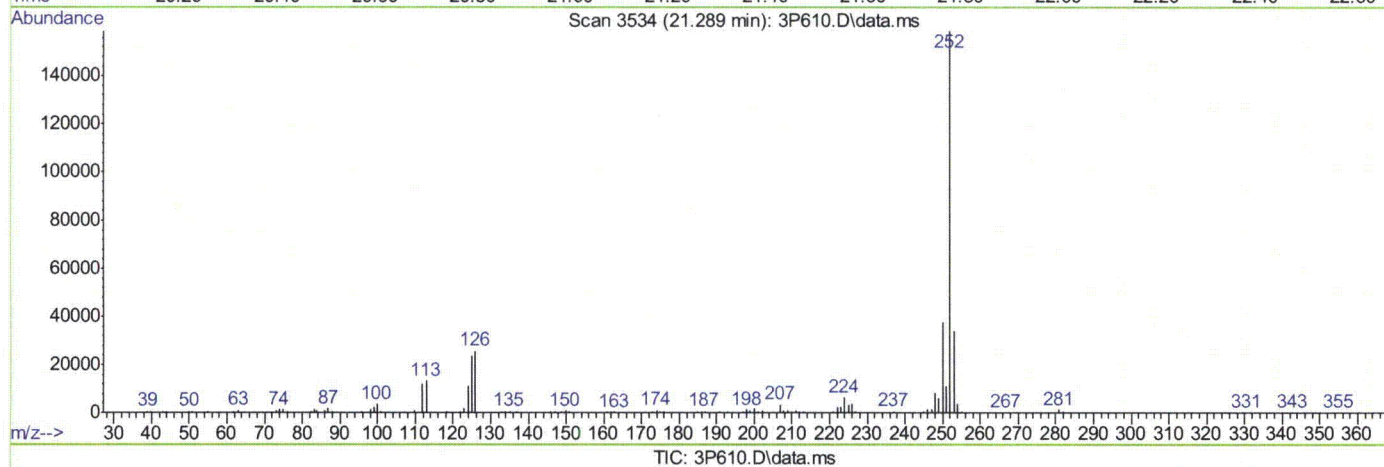
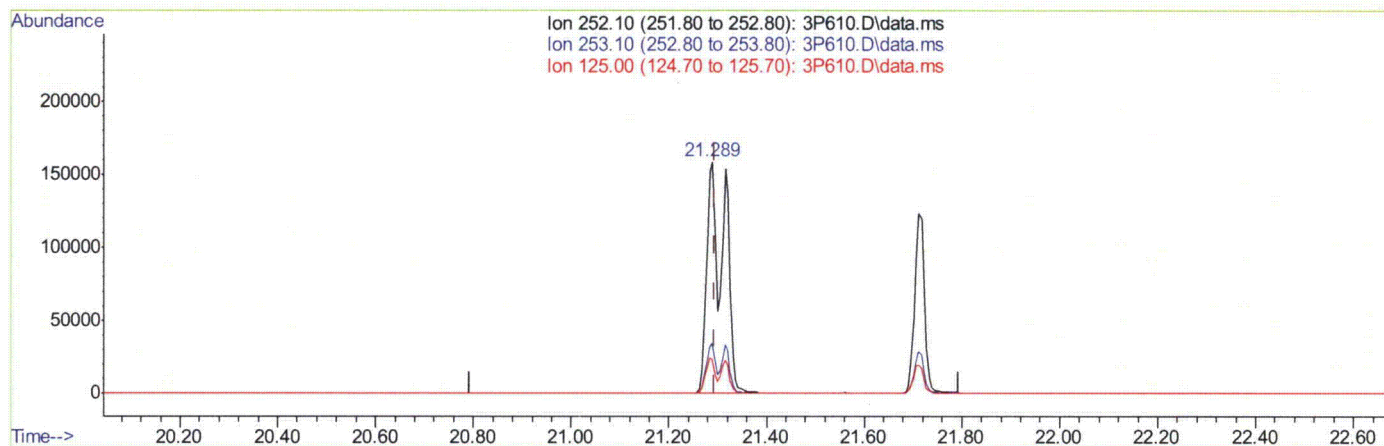
8.6.26.1

8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P610.D
Acq On : 26 Oct 2010 10:45 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 09:44:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.289min (-0.005) 85.29ppb

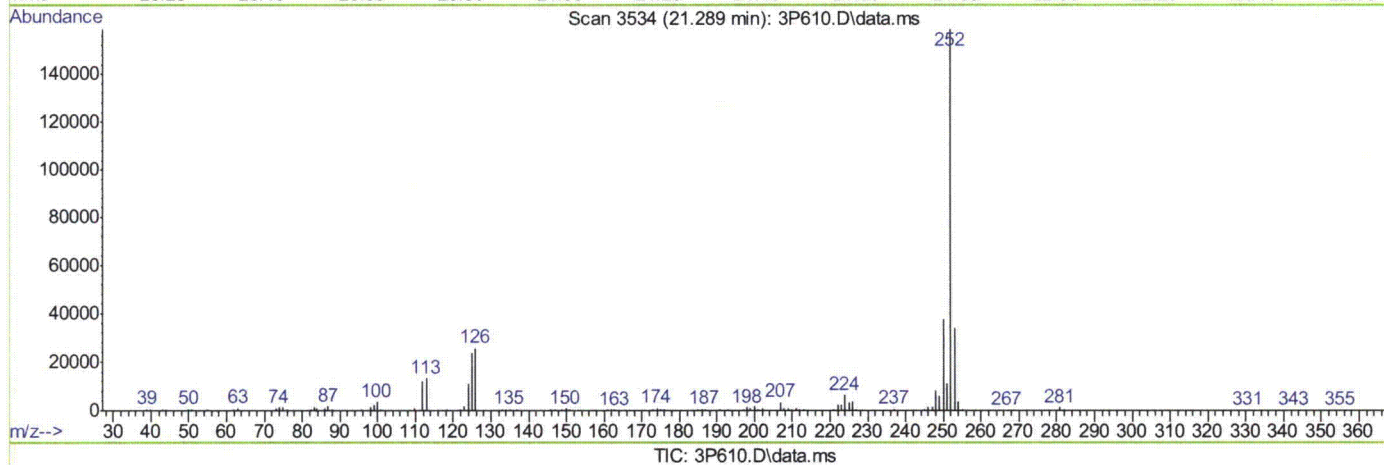
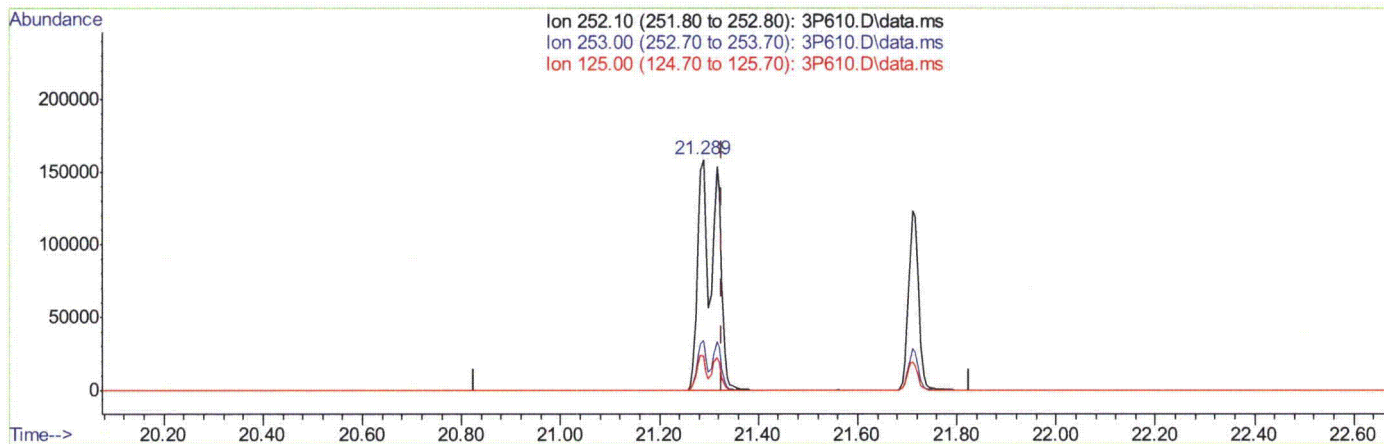
response 397133

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	21.19
125.00	15.70	14.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P610.D
Acq On : 26 Oct 2010 10:45 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 09:44:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.289min (-0.037) 100.80ppb

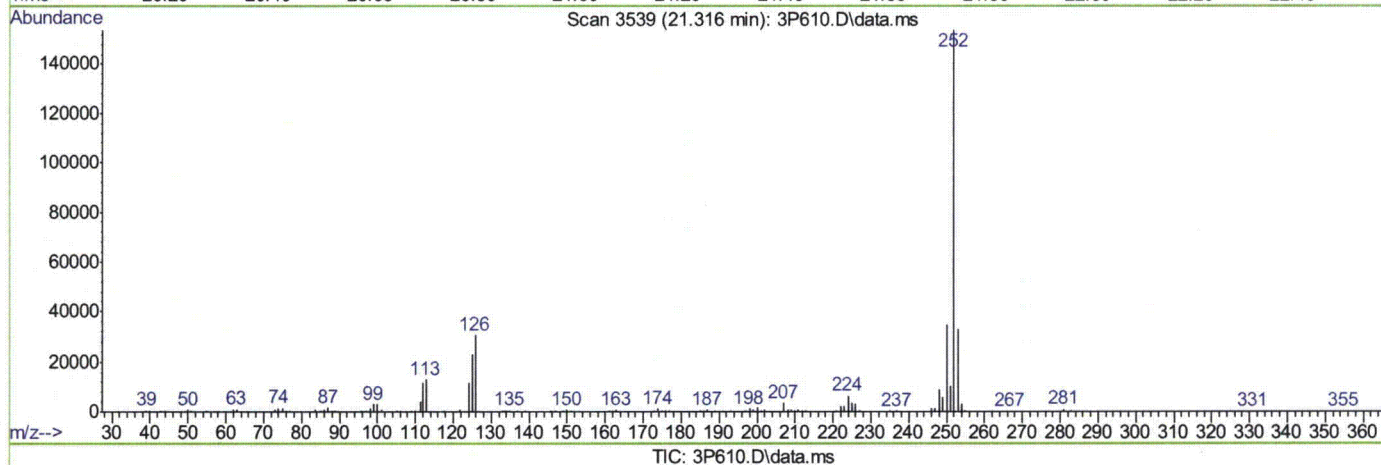
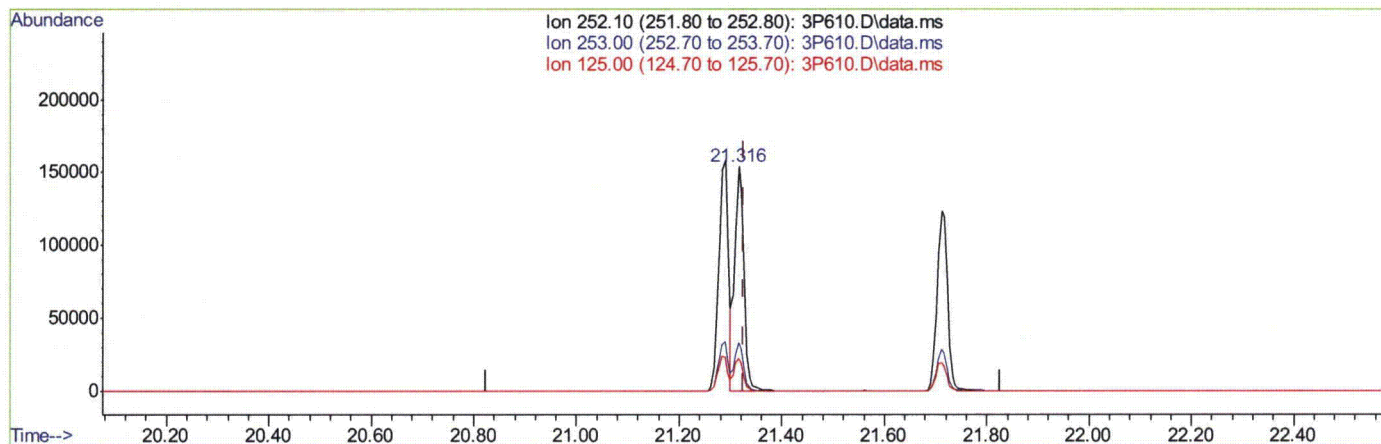
response 397133

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	21.19
125.00	14.40	14.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P610.D
Acq On : 26 Oct 2010 10:45 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 09:44:01 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (I)

21.316min (-0.010) 47.62ppb m

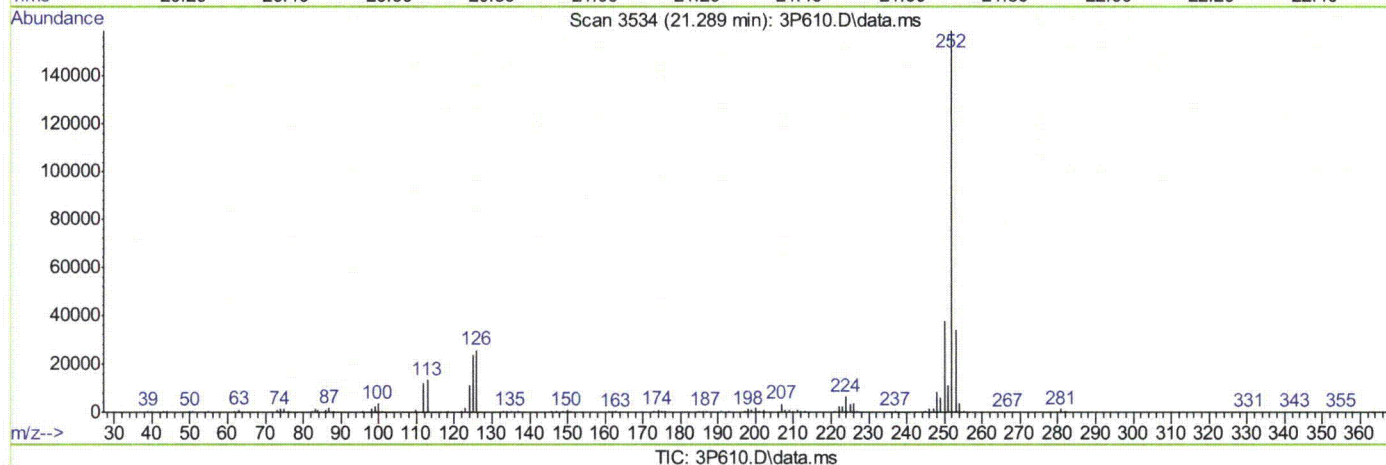
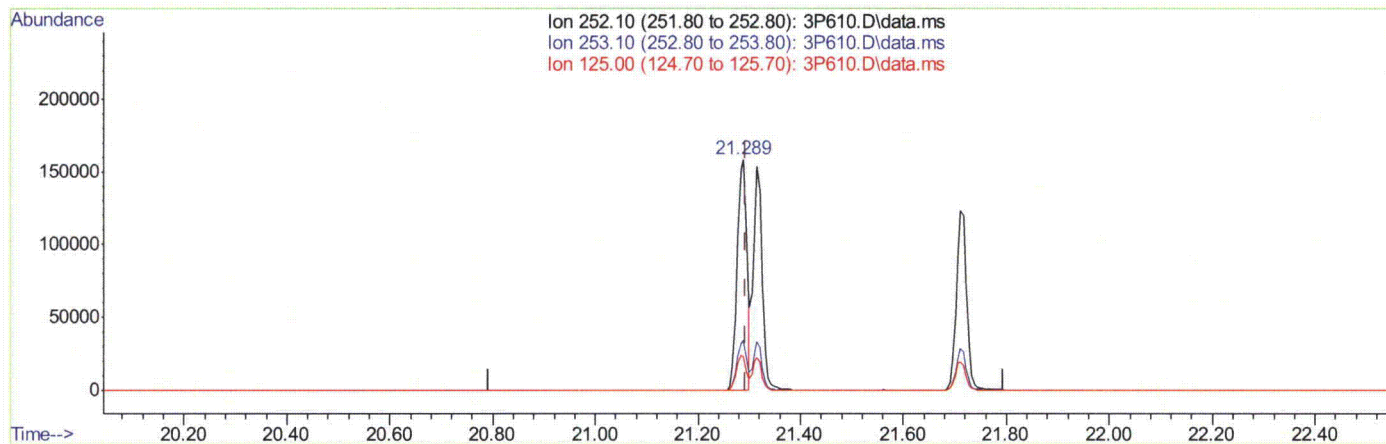
response 187607

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	21.45
125.00	14.40	14.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\29\
Data File : 3P610.D
Acq On : 26 Oct 2010 10:45 am
Operator : kristis
Sample : icv27-50
Misc : op46181,e3p29,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 09:45:47 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.289min (-0.005) 44.34ppb m

response 206446

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	21.41
125.00	15.70	14.83
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P693.D
 Acq On : 1 Nov 2010 10:51 am
 Operator : kristis
 Sample : cc27-50
 Misc : op46181,e3p33,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:27:19 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.997	152	96036	40.00	ppb	-0.03
24) Naphthalene-d8	9.378	136	367965	40.00	ppb	-0.02
47) Acenaphthene-d10	12.859	164	218844	40.00	ppb	-0.02
69) Phenanthrene-d10	15.780	188	326016	40.00	ppb	-0.01
83) Chrysene-d12	19.952	240	278288	40.00	ppb	0.00
92) Perylene-d12	21.792	264	103092	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	6.997	152	96036	40.00	ppb	-0.03
104) Acenaphthene-d10a	12.859	164	218844	40.00	ppb	-0.02
106) Chrysene-d12a	19.952	240	278288	40.00	ppb	0.00
110) Acenaphthene-d10b	12.859	164	218844	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.970	112	151694	53.26	ppb	-0.12
Spiked Amount 50.000			Recovery	=	106.52%	
8) Phenol-d5	6.553	99	203287	48.81	ppb	-0.06
Spiked Amount 50.000			Recovery	=	97.62%	
25) Nitrobenzene-d5	8.078	82	178644	44.81	ppb	-0.05
Spiked Amount 50.000			Recovery	=	89.62%	
51) 2-Fluorobiphenyl	11.576	172	385831	48.89	ppb	-0.02
Spiked Amount 50.000			Recovery	=	97.78%	
73) 2,4,6-Tribromophenol	14.464	330	74150	61.01	ppb	-0.05
Spiked Amount 50.000			Recovery	=	122.02%	
85) Terphenyl-d14	18.524	244	329445	58.29	ppb	-0.02
Spiked Amount 50.000			Recovery	=	116.58%	
Target Compounds						
2) 1,4-Dioxane	2.617	88	40003	41.98	ppb	Qvalue 99
3) Pyridine	3.050	79	135836	45.30	ppb	100
4) N-Nitrosodimethylamine	3.045	42	57060	35.21	ppb	75
6) Indene	7.500	116	226764	48.97	ppb	99
7) Cumene	5.698	105	299375	47.05	ppb	98
9) Phenol	6.575	94	222634	50.32	ppb	98
10) Aniline	6.516	93	196048	44.89	ppb	98
11) bis(2-Chloroethyl)ether	6.644	93	157542	46.36	ppb	100
12) 2-Chlorophenol	6.709	128	172882	52.42	ppb	96
13) Decane	6.794	43	158964	37.12	ppb	91
14) 1,3-Dichlorobenzene	6.928	146	186019	49.99	ppb	100
15) 1,4-Dichlorobenzene	7.024	146	190446	48.46	ppb	100
16) Benzyl alcohol	7.623	108	149246	68.07	ppb	# 42
17) 1,2-Dichlorobenzene	7.356	146	185472	49.89	ppb	98
18) Acetophenone	7.810	105	221101	51.95	ppb	100
19) 2-Methylphenol	7.623	108	150418	48.49	ppb	96
20) 2,2'-oxybis(1-Chloropr...	7.618	121	51385	52.05	ppb	# 78
21) 3&4-Methylphenol	7.901	108	162783	52.95	ppb	95
22) n-Nitroso-di-n-propyla...	7.891	70	115716	46.82	ppb	84
23) Hexachloroethane	7.896	201	74103	54.43	ppb	88
26) Nitrobenzene	8.115	123	85044	51.57	ppb	87
27) Quinoline	10.110	129	299936	53.38	ppb	98
28) Isophorone	8.565	82	298153	44.87	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P693.D
 Acq On : 1 Nov 2010 10:51 am
 Operator : kristis
 Sample : cc27-50
 Misc : op46181,e3p33,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:27:19 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
29) 2-Nitrophenol	8.714	139	99146	52.59	ppb	95
30) 2,4-Dimethylphenol	8.880	107	150848	52.80	ppb	100
31) Benzoic acid	9.265	105	108301	59.28	ppb	86
32) bis(2-Chloroethoxy)met...	9.041	93	197062	46.74	ppb	98
33) 2,4-Dichlorophenol	9.190	162	149528	56.48	ppb	98
34) 2,6-Dichlorophenol	9.624	162	150265	56.17	ppb	96
35) 1,3,5-Trichlorobenzene	8.714	180	163490	53.31	ppb	99
36) 1,2,4-Trichlorobenzene	9.313	180	161390	52.97	ppb	97
37) 1,2,3-Trichlorobenzene	9.779	180	158620	54.87	ppb	99
38) Naphthalene	9.415	128	497872	48.75	ppb	100
39) 4-Chloroaniline	9.624	127	210713	51.75	ppb	94
40) 2,3-Dichloroaniline	11.426	161	168656	53.57	ppb	99
41) Caprolactam	10.324	55	73631	43.09	ppb	94
42) Hexachlorobutadiene	9.789	225	101394	57.18	ppb	98
43) 4-Chloro-3-methylphenol	10.672	107	145324	56.25	ppb	91
44) 2-Methylnaphthalene	10.774	142	346067	52.19	ppb	98
45) 1-Methylnaphthalene	10.982	142	311192	51.10	ppb	97
46) Dimethylnaphthalene	12.025	156	280771	55.19	ppb	100
48) Hexachlorocyclopentadiene	11.228	237	173757	102.17	ppb	98
49) 2,4,6-Trichlorophenol	11.437	196	108934	53.66	ppb	99
50) 2,4,5-Trichlorophenol	11.538	196	122422	56.42	ppb	97
52) 2-Chloronaphthalene	11.726	162	340992	49.73	ppb	99
53) Biphenyl	11.731	154	405145	47.51	ppb	99
54) 2-Nitroaniline	12.057	65	95048	40.81	ppb	88
55) Dimethylphthalate	12.512	163	353703	50.30	ppb	99
56) Acenaphthylene	12.549	152	506648	47.04	ppb	99
57) 2,6-Dinitrotoluene	12.635	165	78612	51.35	ppb	88
58) 3-Nitroaniline	12.897	138	94832	49.68	ppb	95
59) Acenaphthene	12.924	153	312453	45.83	ppb	96
60) 2,4-Dinitrophenol	13.116	184	85626	128.42	ppb	# 96
61) 4-Nitrophenol	13.373	109	44454	48.43	ppb	89
62) Dibenzofuran	13.245	168	454443	49.10	ppb	97
63) 2,4-Dinitrotoluene	13.416	165	111194	54.07	ppb	85
64) 2,3,4,6-Tetrachlorophenol	13.624	232	96276	57.90	ppb	96
65) Diethylphthalate	13.940	149	386788	50.07	ppb	98
66) Fluorene	13.929	166	367387	49.73	ppb	99
67) 4-Chlorophenyl-phenyle...	13.977	204	169977	52.72	ppb	98
68) 4-Nitroaniline	14.138	138	91692	47.42	ppb	93
70) 4,6-Dinitro-2-methylph...	14.223	198	68415	53.74	ppb	96
71) n-Nitrosodiphenylamine	14.250	169	248275	50.19	ppb	96
72) 1,2-Diphenylhydrazine	14.288	77	388209	41.09	ppb	90
74) 4-Bromophenyl-phenylether	14.935	248	113774	56.33	ppb	95
75) Hexachlorobenzene	15.186	284	140047	56.44	ppb	96
76) Pentachlorophenol	15.587	266	156723	97.86	ppb	96
77) Phenanthrene	15.828	178	447815	48.20	ppb	99
78) Anthracene	15.914	178	454385	48.89	ppb	99
79) Carbazole	16.277	167	437858	49.27	ppb	98
80) Di-n-butylphthalate	17.074	149	605886	47.78	ppb	99
81) Fluoranthene	17.898	202	530626	51.57	ppb	95
82) Octadecane	15.737	57	206214	38.03	ppb	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P693.D
Acq On : 1 Nov 2010 10:51 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p33,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:27:19 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.230	202	527692	53.71	ppb	99
86) Butylbenzylphthalate	19.289	149	238314	48.25	ppb	90
87) Butyl stearate	19.347	56	133194	39.63	ppb	94
88) Benzo[a]anthracene	19.930	228	401892	51.01	ppb	97
89) 3,3'-Dichlorobenzidine	19.936	252	163086	53.40	ppb	96
90) Chrysene	19.989	228	349900	52.26	ppb	98
91) bis(2-Ethylhexyl)phtha...	20.096	149	247584	43.92	ppb	97
93) Di-n-octylphthalate	20.840	149	335203	55.62	ppb	94
94) Benzo[b]fluoranthene	21.294	252	230917m	55.83	ppb	
95) Benzo[k]fluoranthene	21.332	252	187960m	53.70	ppb	
96) Benzo[a]pyrene	21.722	252	168743	50.90	ppb	94
97) Indeno[1,2,3-cd]pyrene	23.525	276	146814	54.34	ppb	92
98) Dibenz(a,h)acridine	23.118	279	117519	53.47	ppb	96
99) Dibenz[a,h]anthracene	23.551	278	115061	55.99	ppb	93
100) 7,12-Dimethylbenz(a)an...	21.310	256	90168	51.98	ppb	96
101) Benzo[g,h,i]perylene	24.017	276	121105	58.71	ppb	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration Approval Summary

Page 1 of 1

Sample Number: E3P33-CC27 **Method:** EPA 625
Lab FileID: 3P693.D **Analyst approved:** 11/03/10 15:08 Jessica Reitan-Chu
Injection Time: 11/01/10 10:51 **Supervisor approved:** 11/03/10 15:23 Jessica Reitan-Chu

Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.29	Overlapping peak
Benzo(k)fluoranthene	207-08-9		21.33	Overlapping peak

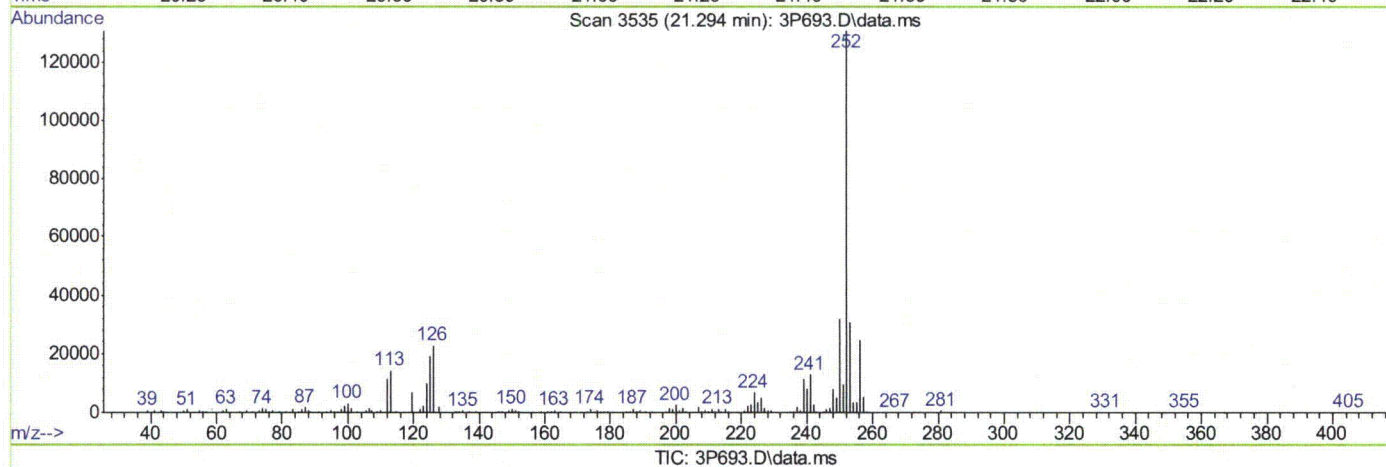
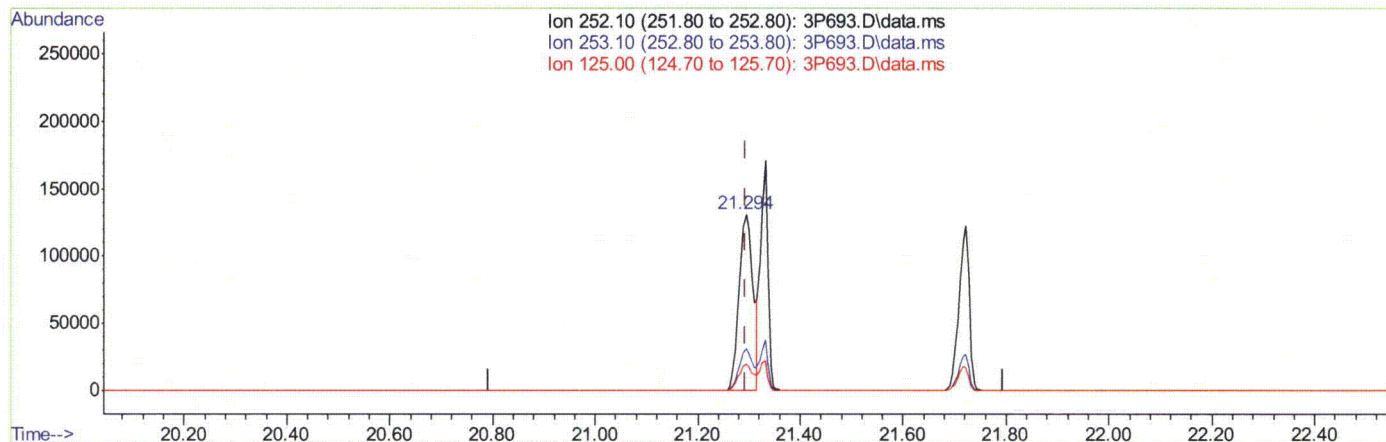
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8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P693.D
Acq On : 1 Nov 2010 10:51 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p33,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:26:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.294min (+0.000) 61.00ppb

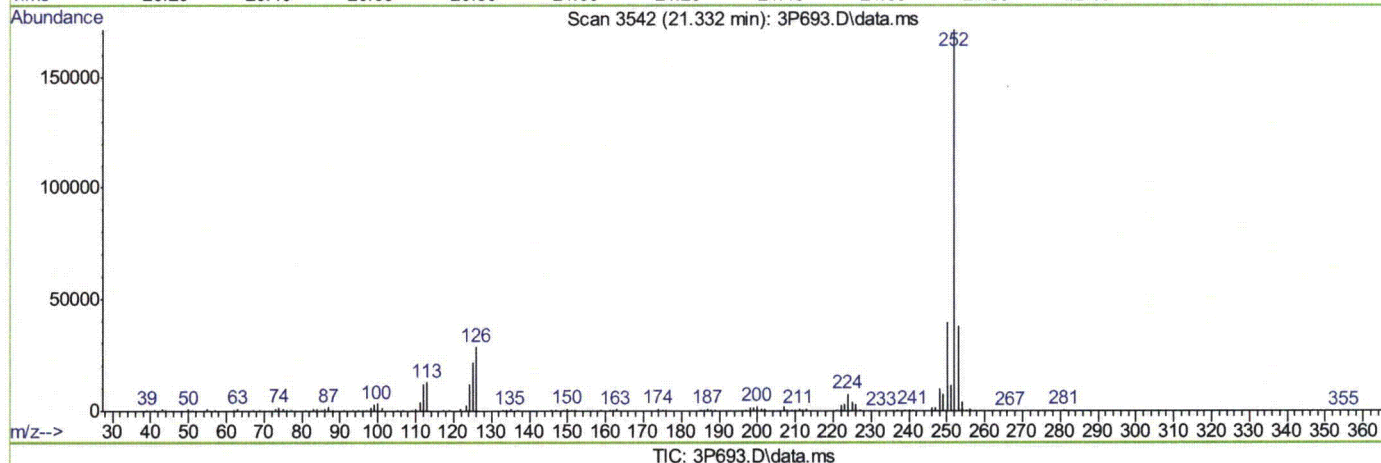
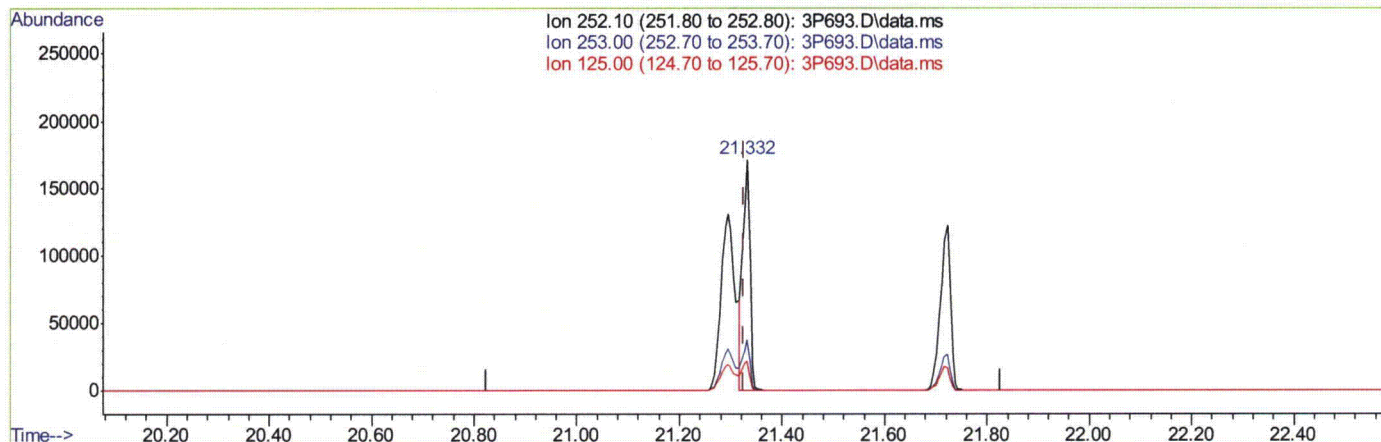
response 252322

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	22.70
125.00	15.70	13.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P693.D
Acq On : 1 Nov 2010 10:51 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p33,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:26:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (I)

21.332min (+0.006) 47.75ppb

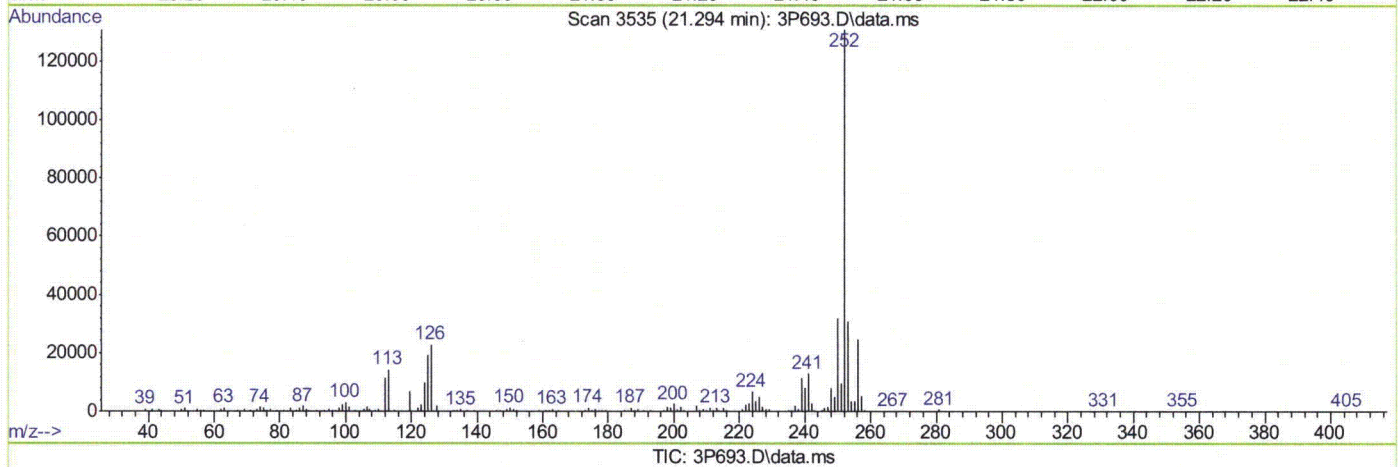
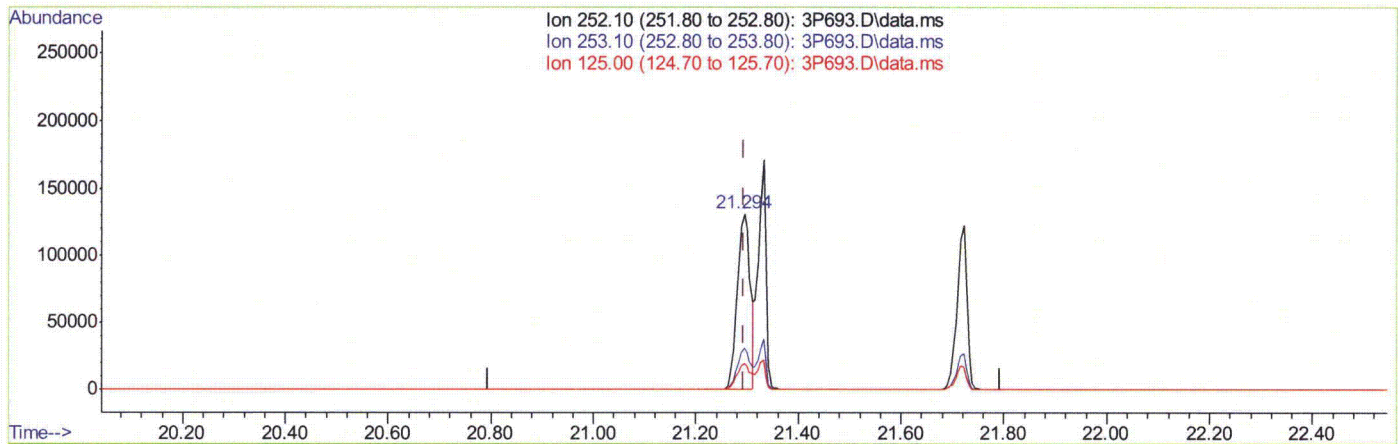
response 167132

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	20.91
125.00	14.40	11.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P693.D
Acq On : 1 Nov 2010 10:51 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p33,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:26:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(94) Benzo[b]fluoranthene (t)

21.294min (+0.000) 55.83ppb m

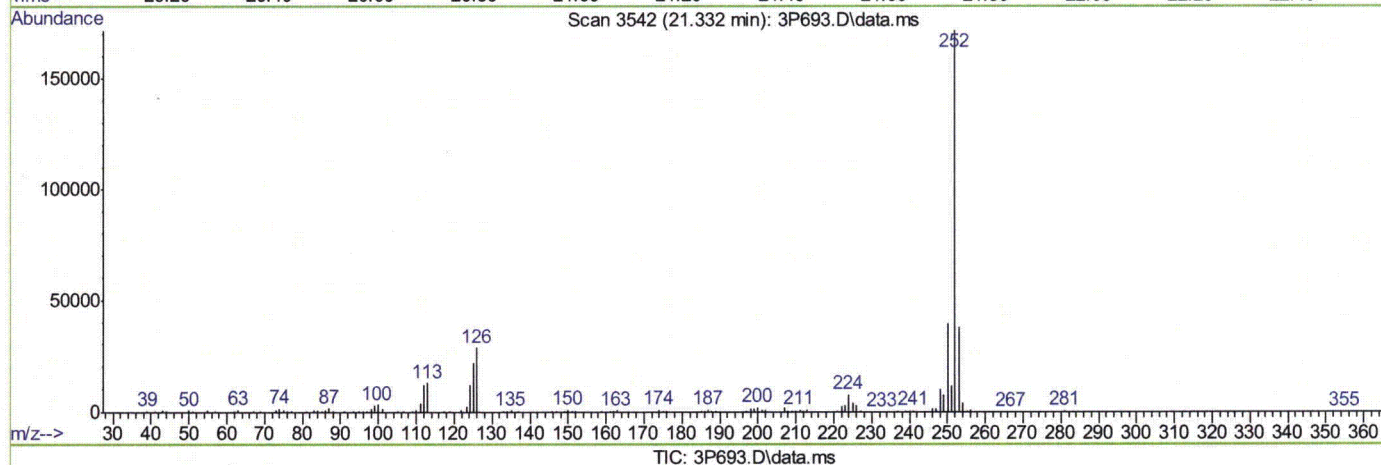
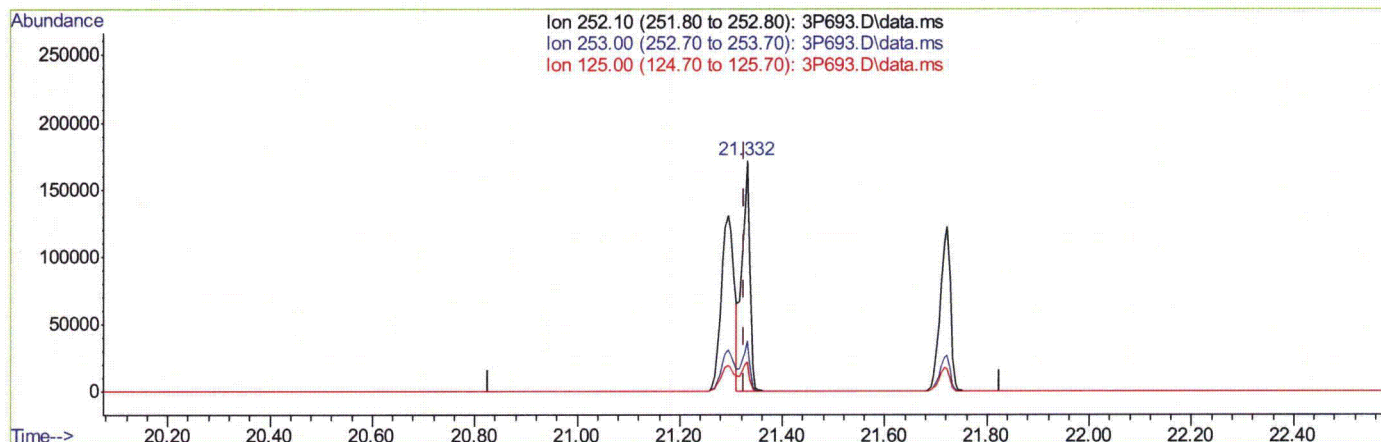
response 230917

Ion	Exp%	Act%
252.10	100	100
253.10	20.50	23.58
125.00	15.70	14.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P693.D
Acq On : 1 Nov 2010 10:51 am
Operator : kristis
Sample : cc27-50
Misc : op46181,e3p33,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 12:26:43 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



(95) Benzo[k]fluoranthene (t)

21.332min (+0.006) 53.70ppb m

response 187960

Ion	Exp%	Act%
252.10	100	100
253.00	20.40	21.90
125.00	14.40	12.70
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
 Data File : 3P694.D
 Acq On : 1 Nov 2010 11:20 am
 Operator : kristis
 Sample : cc28-50
 Misc : op46181,e3p33,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 01 12:28:10 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

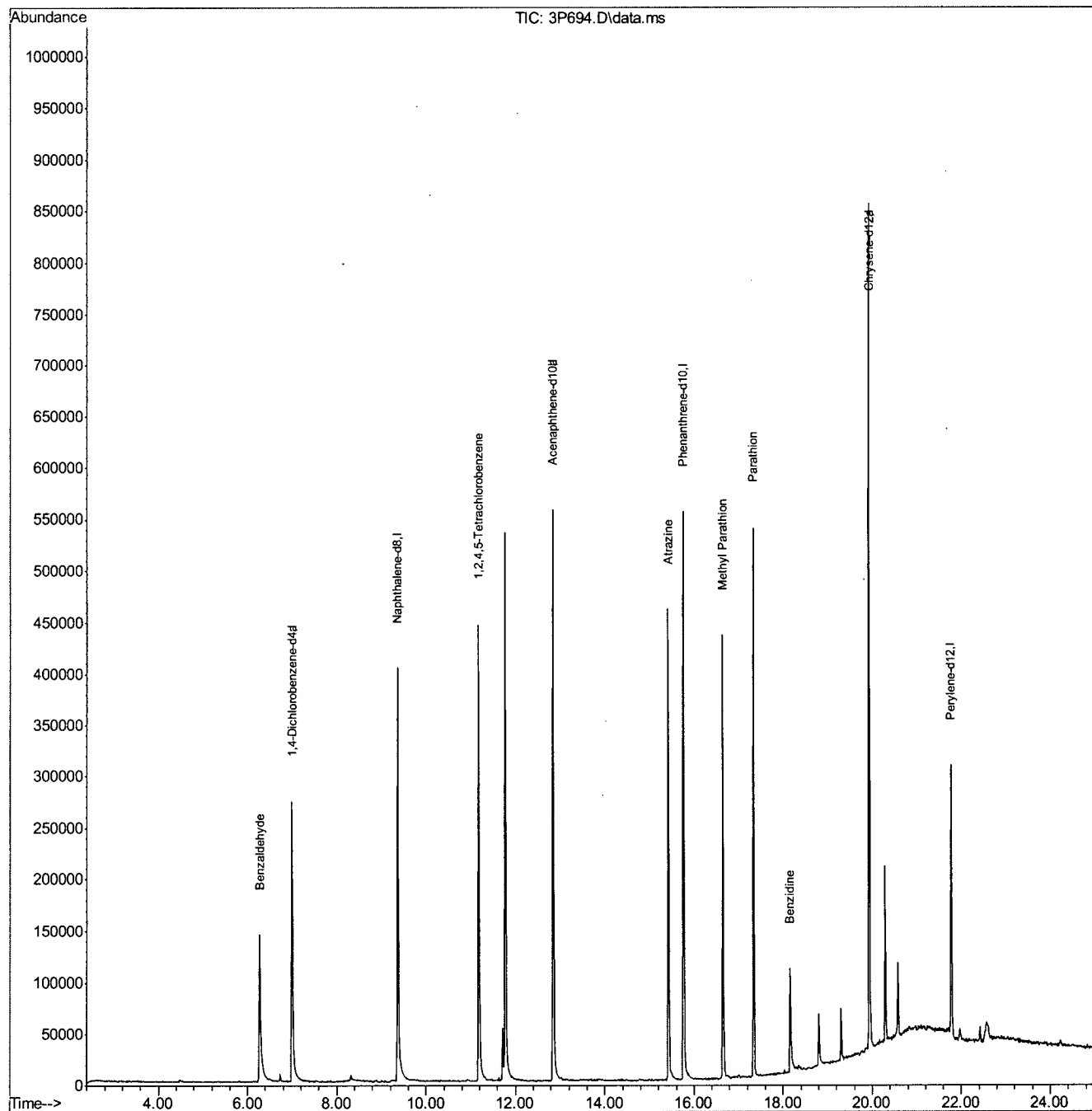
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.997	152	95986	40.00	ppb	-0.03
24) Naphthalene-d8	9.367	136	362651	40.00	ppb	-0.03
47) Acenaphthene-d10	12.849	164	210298	40.00	ppb	-0.03
69) Phenanthrene-d10	15.769	188	342619	40.00	ppb	-0.02
83) Chrysene-d12	19.941	240	307762	40.00	ppb	-0.01
92) Perylene-d12	21.781	264	133712	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.997	152	95986	40.00	ppb	-0.03
104) Acenaphthene-d10a	12.849	164	210298	40.00	ppb	-0.03
106) Chrysene-d12a	19.941	240	307762	40.00	ppb	-0.01
110) Acenaphthene-d10b	12.849	164	210298	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.270	105	81671	47.28	ppb	Qvalue 97
105) Atrazine	15.432	215	44428	58.86	ppb	96
107) Benzidine	18.155	184	95694	26.94	ppb	100
108) Methyl Parathion	16.652	TIC	560453	55.09	ppb	99
109) Parathion	17.342	TIC	703802	65.33	ppb	97
111) 1,2,4,5-Tetrachloroben...	11.180	216	159017	51.05	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\33\
Data File : 3P694.D
Acq On : 1 Nov 2010 11:20 am
Operator : kristis
Sample : cc28-50
Misc : op46181,e3p33,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 01 12:28:10 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P716.D
 Acq On : 2 Nov 2010 10:34 am
 Operator : kristis
 Sample : cc27-25
 Misc : op46181,e3p34,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 12:43:07 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.986	152	75021	40.00	ppb	-0.04
24) Naphthalene-d8	9.361	136	271386	40.00	ppb	-0.03
47) Acenaphthene-d10	12.843	164	156883	40.00	ppb	-0.03
69) Phenanthrene-d10	15.764	188	240992	40.00	ppb	-0.03
83) Chrysene-d12	19.941	240	235932	40.00	ppb	-0.01
92) Perylene-d12	21.781	264	139698	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.986	152	75021	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.843	164	156883	40.00	ppb	-0.03
106) Chrysene-d12a	19.941	240	235932	40.00	ppb	-0.01
110) Acenaphthene-d10b	12.843	164	156883	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	4.975	112	57925	26.04	ppb	-0.11
Spiked Amount 50.000			Recovery	=	52.08%	
8) Phenol-d5	6.542	99	72583	22.31	ppb	0.00
Spiked Amount 50.000			Recovery	=	44.62%	
25) Nitrobenzene-d5	8.067	82	64544	21.95	ppb	-0.06
Spiked Amount 50.000			Recovery	=	43.90%	
51) 2-Fluorobiphenyl	11.554	172	137400	24.29	ppb	-0.04
Spiked Amount 50.000			Recovery	=	48.58%	
73) 2,4,6-Tribromophenol	14.448	330	26852	29.89	ppb	-0.06
Spiked Amount 50.000			Recovery	=	59.78%	
85) Terphenyl-d14	18.513	244	123552	25.79	ppb	-0.03
Spiked Amount 50.000			Recovery	=	51.58%	
Target Compounds						
2) 1,4-Dioxane	2.622	88	17741	23.83	ppb	Qvalue 97
3) Pyridine	3.066	79	56048	23.93	ppb	94
4) N-Nitrosodimethylamine	3.055	42	22891	18.08	ppb	# 67
6) Indene	7.495	116	86188	23.83	ppb	98
7) Cumene	5.692	105	115790	23.30	ppb	98
9) Phenol	6.564	94	82469	23.86	ppb	93
10) Aniline	6.510	93	74341	21.79	ppb	98
11) bis(2-Chloroethyl)ether	6.633	93	60261	22.70	ppb	94
12) 2-Chlorophenol	6.698	128	64015	24.85	ppb	99
13) Decane	6.778	43	63028	18.84	ppb	91
14) 1,3-Dichlorobenzene	6.922	146	72287	24.87	ppb	99
15) 1,4-Dichlorobenzene	7.013	146	75710	24.66	ppb	98
16) Benzyl alcohol	7.425	108	37869	23.19	ppb	77
17) 1,2-Dichlorobenzene	7.350	146	71532	24.63	ppb	97
18) Acetophenone	7.799	105	80210	24.12	ppb	99
19) 2-Methylphenol	7.612	108	56823	23.45	ppb	95
20) 2,2'-oxybis(1-Chloropr...	7.607	121	19024	24.67	ppb	# 69
21) 3&4-Methylphenol	7.896	108	60952	25.38	ppb	93
22) n-Nitroso-di-n-propyla...	7.869	70	41671	21.58	ppb	88
23) Hexachloroethane	7.890	201	28477	26.77	ppb	84
26) Nitrobenzene	8.104	123	31225	25.67	ppb	85
27) Quinoline	10.089	129	107416	25.92	ppb	98
28) Isophorone	8.548	82	109121	22.27	ppb	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P716.D
 Acq On : 2 Nov 2010 10:34 am
 Operator : kristis
 Sample : cc27-25
 Misc : op46181,e3p34,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 12:43:07 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) 2-Nitrophenol	8.709	139	35256	25.36	ppb	96
30) 2,4-Dimethylphenol	8.869	107	50096	23.78	ppb	99
31) Benzoic acid	9.158	105	39156	29.06	ppb	92
32) bis(2-Chloroethoxy)met...	9.024	93	72631	23.36	ppb	97
33) 2,4-Dichlorophenol	9.195	162	53910	27.61	ppb	97
34) 2,6-Dichlorophenol	9.613	162	53633	27.18	ppb	98
35) 1,3,5-Trichlorobenzene	8.703	180	61900	27.37	ppb	98
36) 1,2,4-Trichlorobenzene	9.302	180	59794	26.61	ppb	97
37) 1,2,3-Trichlorobenzene	9.762	180	58057	27.23	ppb	100
38) Naphthalene	9.399	128	182870	24.28	ppb	99
39) 4-Chloroaniline	9.613	127	77129	25.68	ppb	96
40) 2,3-Dichloroaniline	11.410	161	62203	26.79	ppb	98
41) Caprolactam	10.260	55	26113	20.72	ppb	96
42) Hexachlorobutadiene	9.778	225	37640	28.78	ppb	96
43) 4-Chloro-3-methylphenol	10.656	107	51717	27.14	ppb	95
44) 2-Methylnaphthalene	10.757	142	125942	25.75	ppb	96
45) 1-Methylnaphthalene	10.966	142	112695	25.09	ppb	96
46) Dimethylnaphthalene	12.009	156	100834	26.87	ppb	99
48) Hexachlorocyclopentadiene	11.212	237	52218	47.18	ppb	97
49) 2,4,6-Trichlorophenol	11.426	196	37436	25.73	ppb	95
50) 2,4,5-Trichlorophenol	11.522	196	41731	26.83	ppb	98
52) 2-Chloronaphthalene	11.709	162	119325	24.28	ppb	98
53) Biphenyl	11.715	154	143486	23.47	ppb	98
54) 2-Nitroaniline	12.041	65	33324	19.96	ppb	80
55) Dimethylphthalate	12.496	163	126151	25.03	ppb	99
56) Acenaphthylene	12.533	152	183053	23.71	ppb	99
57) 2,6-Dinitrotoluene	12.619	165	28010	25.52	ppb	86
58) 3-Nitroaniline	12.881	138	34605	25.29	ppb	91
59) Acenaphthene	12.902	153	114411	23.41	ppb	96
60) 2,4-Dinitrophenol	13.111	184	27552	69.17	ppb	# 93
61) 4-Nitrophenol	13.383	109	14563	22.13	ppb	90
62) Dibenzofuran	13.228	168	162718	24.52	ppb	100
63) 2,4-Dinitrotoluene	13.399	165	38168	25.89	ppb	94
64) 2,3,4,6-Tetrachlorophenol	13.613	232	33678	28.25	ppb	96
65) Diethylphthalate	13.918	149	134202	24.23	ppb	98
66) Fluorene	13.913	166	128990	24.36	ppb	100
67) 4-Chlorophenyl-phenyle...	13.961	204	61849	26.76	ppb	97
68) 4-Nitroaniline	14.116	138	32465	23.42	ppb	92
70) 4,6-Dinitro-2-methylph...	14.207	198	22446	26.92	ppb	95
71) n-Nitrosodiphenylamine	14.228	169	89943	24.60	ppb	95
72) 1,2-Diphenylhydrazine	14.271	77	124341	17.80	ppb	86
74) 4-Bromophenyl-phenylether	14.924	248	40977	27.44	ppb	94
75) Hexachlorobenzene	15.175	284	50306	27.43	ppb	92
76) Pentachlorophenol	15.571	266	51445	47.74	ppb	96
77) Phenanthrene	15.806	178	164263	23.92	ppb	98
78) Anthracene	15.897	178	168060	24.46	ppb	98
79) Carbazole	16.261	167	162373	24.72	ppb	98
80) Di-n-butylphthalate	17.063	149	222373	23.72	ppb	98
81) Fluoranthene	17.882	202	191456	25.17	ppb	95
82) Octadecane	15.726	57	74184	18.51	ppb	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P716.D
Acq On : 2 Nov 2010 10:34 am
Operator : kristis
Sample : cc27-25
Misc : op46181,e3p34,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 12:43:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration

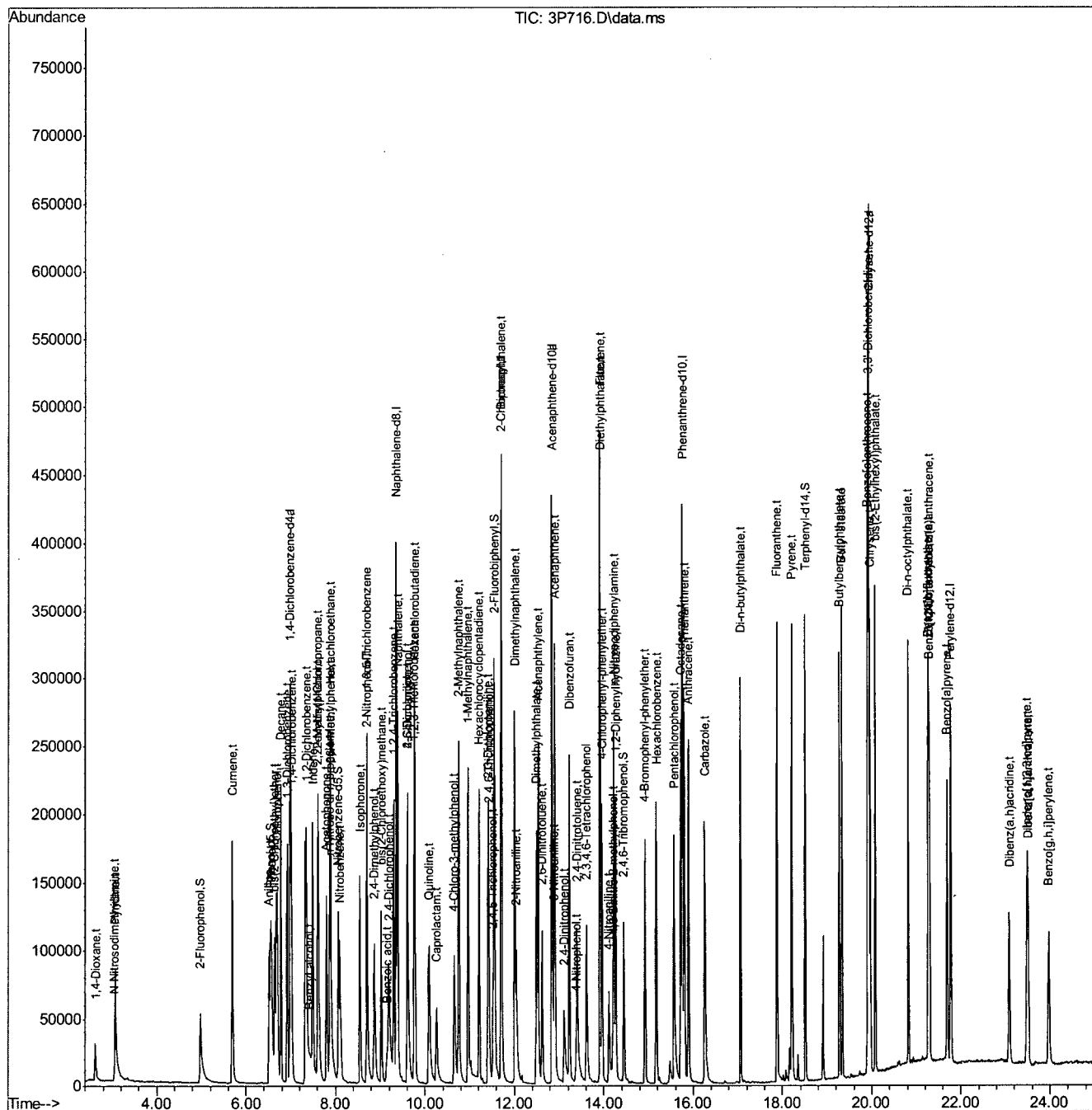
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Pyrene	18.213	202	191537	23.00	ppb	98
86) Butylbenzylphthalate	19.278	149	91636	21.88	ppb	89
87) Butyl stearate	19.336	56	53757	17.76	ppb	93
88) Benzo[a]anthracene	19.914	228	160974	24.10	ppb	98
89) 3,3'-Dichlorobenzidine	19.925	252	66669	25.75	ppb	97
90) Chrysene	19.973	228	143865	25.35	ppb	98
91) bis(2-Ethylhexyl)phtha...	20.085	149	108473	22.69	ppb	96
93) Di-n-octylphthalate	20.829	149	174886	21.42	ppb	91
94) Benzo[b]fluoranthene	21.273	252	141673	25.28	ppb	95
95) Benzo[k]fluoranthene	21.305	252	103751	21.87	ppb	97
96) Benzo[a]pyrene	21.701	252	106134	23.62	ppb	95
97) Indeno[1,2,3-cd]pyrene	23.492	276	103136	28.17	ppb	90
98) Dibenz(a,h)acridine	23.091	279	80198	26.93	ppb	99
99) Dibenz[a,h]anthracene	23.514	278	80878	29.04	ppb	92
100) 7,12-Dimethylbenz(a)an...	21.289	256	49442	22.82	ppb	94
101) Benzo[g,h,i]perylene	23.979	276	83386	29.83	ppb	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P716.D
Acq On : 2 Nov 2010 10:34 am
Operator : kristis
Sample : cc27-25
Misc : op46181,e3p34,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 02 12:43:07 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



M3P27.M Tue Nov 02 12:43:15 2010 RPT1

Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
 Data File : 3P717.D
 Acq On : 2 Nov 2010 11:04 am
 Operator : kristis
 Sample : cc28-50
 Misc : op46181,e3p34,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 12:44:11 2010
 Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
 Quant Title : Semi Volatile Extractables by GC/MS
 Qlast Update : Tue Oct 26 08:44:58 2010
 Response via : Initial Calibration

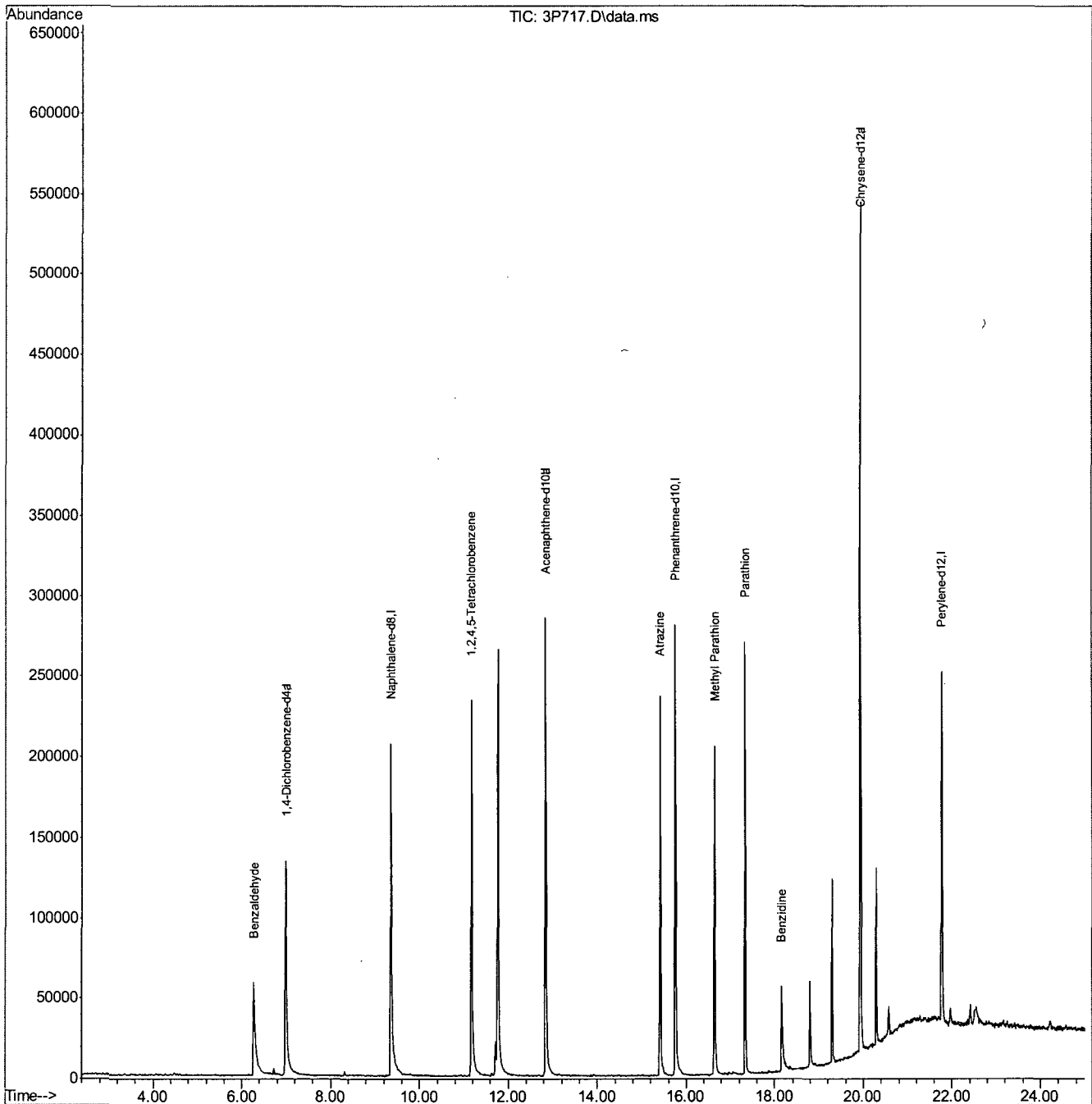
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.992	152	56573	40.00	ppb	-0.04
24) Naphthalene-d8	9.362	136	212989	40.00	ppb	-0.03
47) Acenaphthene-d10	12.838	164	120586	40.00	ppb	-0.04
69) Phenanthrene-d10	15.759	188	182542	40.00	ppb	-0.03
83) Chrysene-d12	19.936	240	191898	40.00	ppb	-0.02
92) Perylene-d12	21.776	264	120925	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	6.992	152	56573	40.00	ppb	-0.04
104) Acenaphthene-d10a	12.838	164	120586	40.00	ppb	-0.04
106) Chrysene-d12a	19.936	240	191898	40.00	ppb	-0.02
110) Acenaphthene-d10b	12.838	164	120586	40.00	ppb	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	6.270	105	47577	46.73	ppb	Qvalue 96
105) Atrazine	15.422	215	24937	57.61	ppb	92
107) Benzidine	18.155	184	55371	25.00	ppb	97
108) Methyl Parathion	16.646	TIC	306337	48.49	ppb	98
109) Parathion	17.336	TIC	362340	53.94	ppb	99
111) 1,2,4,5-Tetrachloroben...	11.175	216	91962	51.49	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\34\
Data File : 3P717.D
Acq On : 2 Nov 2010 11:04 am
Operator : kristis
Sample : cc28-50
Misc : op46181,e3p34,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 12:44:11 2010
Quant Method : C:\MSDCHEM\1\METHODS\M3P27.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Oct 26 08:44:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92480.D Vial: 2
 Acq On : 20 Oct 2010 8:47 am Operator: ninap
 Sample : icc4329-50 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 09:46:01 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 09:45:56 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	206183	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	756161	40.00	ppb	0.00
47) Acenaphthene-d10	7.67	164	480113	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	804434	40.00	ppb	0.00
83) Chrysene-d12	13.50	240	872092	40.00	ppb	0.00
92) Perylene-d12	14.86	264	747090	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	206183	40.00	ppb	0.00
104) Acenaphthene-d10a	7.67	164	480113	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	804434	40.00	ppb	0.00
108) Chrysene-d12a	13.50	240	872092	40.00	ppb	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	2.11	112	336753	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
8) Phenol-d5	3.02	99	448691	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
25) Nitrobenzene-d5	4.06	82	372789	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
51) 2-Fluorobiphenyl	6.70	172	787978	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
73) 2,4,6-Tribromophenol	8.92	330	96607	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	
85) Terphenyl-d14	12.36	244	839350	50.00	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	1.12	88	164500	50.00	ppb	100
3) Pyridine	1.28	79	359836	50.00	ppb	100
4) N-Nitrosodimethylamine	1.27	74	222125	50.00	ppb	100
6) Indene	3.67	116	488044	50.00	ppb	100
7) Cumene	2.54	105	663383	50.00	ppb	100
9) Phenol	3.03	94	472120	50.00	ppb	100
10) Aniline	3.02	93	447938	50.00	ppb	100
11) bis(2-Chloroethyl)ether	3.10	93	343561	50.00	ppb	100
12) 2-Chlorophenol	3.13	128	337550	50.00	ppb	100
13) Decane	3.21	43	379755	50.00	ppb	100
14) 1,3-Dichlorobenzene	3.29	146	396664	50.00	ppb	100
15) 1,4-Dichlorobenzene	3.35	146	381883	50.00	ppb	100
16) Benzyl alcohol	3.55	108	234006	50.00	ppb	100
17) 1,2-Dichlorobenzene	3.57	146	352302	50.00	ppb	100
18) Acetophenone	3.88	105	454759	50.00	ppb	100
19) 2-Methylphenol	3.74	108	308226	50.00	ppb	100
20) 2,2'-oxybis(1-Chloropropan	3.76	121	101870	50.00	ppb	100
21) 3&4-Methylphenol	3.93	108	316155	50.00	ppb	100
22) n-Nitroso-di-n-propylamine	3.93	70	232736	50.00	ppb	100
23) Hexachloroethane	3.95	201	130775	50.00	ppb	100
26) Nitrobenzene	4.08	123	172492	50.00	ppb	100
27) Quinoline	5.54	129	657184	50.00	ppb	100
28) Isophorone	4.41	82	651413	50.00	ppb	100
29) 2-Nitrophenol	4.52	139	176962	50.00	ppb	100

(#) = qualifier out of range (m) = manual integration

F92480.D MF4329.M Wed Oct 20 13:02:58 2010 GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92480.D

Vial: 2

Acq On : 20 Oct 2010 8:47 am

Operator: ninap

Sample : icc4329-50

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 09:46:01 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 09:45:56 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

8.6.31
8

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	318885	50.00	ppb	100
31) Benzoic acid	4.87	105	200402	50.00	ppb	100
32) bis(2-Chloroethoxy)methane	4.77	93	428237	50.00	ppb	100
33) 2,4-Dichlorophenol	4.85	162	313584	50.00	ppb	100
34) 2,6-Dichlorophenol	5.18	162	302720	50.00	ppb	100
35) 1,3,5-Trichlorobenzene	4.52	180	332387	50.00	ppb	100
36) 1,2,4-Trichlorobenzene	4.96	180	337283	50.00	ppb	100
37) 1,2,3-Trichlorobenzene	5.30	180	327264	50.00	ppb	100
38) Naphthalene	5.03	128	983509	50.00	ppb	100
39) 4-Chloroaniline	5.19	127	413037	50.00	ppb	100
40) 2,3-Dichloroaniline	6.56	161	346425	50.00	ppb	100
41) Caprolactam	5.69	55	185446	50.00	ppb	100
42) Hexachlorobutadiene	5.34	225	188017	50.00	ppb	100
43) 4-Chloro-3-methylphenol	5.99	107	304725	50.00	ppb	100
44) 2-Methylnaphthalene	6.06	142	711876	50.00	ppb	100
45) 1-Methylnaphthalene	6.22	142	658463	50.00	ppb	100
46) Dimethylnaphthalene	7.03	156	576838	50.00	ppb	100
48) Hexachlorocyclopentadiene	6.43	237	323122	100.00	ppb	100
49) 2,4,6-Trichlorophenol	6.57	196	222456	50.00	ppb	100
50) 2,4,5-Trichlorophenol	6.62	196	251050	50.00	ppb	100
52) 2-Chloronaphthalene	6.79	162	668884	50.00	ppb	100
53) Biphenyl	6.81	154	783265	50.00	ppb	100
54) 2-Nitroaniline	7.05	65	193820	50.00	ppb	100
55) Dimethylphthalate	7.44	163	732178	50.00	ppb	100
56) Acenaphthylene	7.42	152	1074746	50.00	ppb	100
57) 2,6-Dinitrotoluene	7.51	165	162751	50.00	ppb	100
58) 3-Nitroaniline	7.71	138	181279	50.00	ppb	100
59) Acenaphthene	7.72	153	635600	50.00	ppb	100
60) 2,4-Dinitrophenol	7.86	184	154452	100.00	ppb	100
61) 4-Nitrophenol	8.06	109	88103	50.00	ppb	100
62) Dibenzofuran	7.97	168	945760	50.00	ppb	100
63) 2,4-Dinitrotoluene	8.11	165	231616	51.38	ppb	93
64) 2,3,4,6-Tetrachlorophenol	8.27	232	211498	48.97	ppb	# 18
65) Diethylphthalate	8.58	149	678623	50.00	ppb	100
66) Fluorene	8.51	166	759415	50.00	ppb	100
67) 4-Chlorophenyl-phenylether	8.58	204	363977	50.00	ppb	100
68) 4-Nitroaniline	8.67	138	194708	50.00	ppb	100
70) 4,6-Dinitro-2-methylphenol	8.73	198	124367	50.00	ppb	100
71) n-Nitrosodiphenylamine	8.78	169	534560	50.00	ppb	100
72) 1,2-Diphenylhydrazine	8.81	77	739217	50.00	ppb	100
74) 4-Bromophenyl-phenylether	9.32	248	229290	50.00	ppb	100
75) Hexachlorobenzene	9.49	284	230326	50.00	ppb	100
76) Pentachlorophenol	9.81	266	290741	100.00	ppb	100
77) Phenanthrene	9.98	178	1064376	50.00	ppb	100
78) Anthracene	10.05	178	1050581	50.00	ppb	100
79) Carbazole	10.36	167	1059467	50.00	ppb	100
80) Di-n-butylphthalate	11.16	149	1287190	50.00	ppb	100
81) Fluoranthene	11.78	202	1261470	50.00	ppb	100
82) Octadecane	10.04	57	466626	50.00	ppb	100

(#)=qualifier out of range (m)=manual integration

F92480.D MF4329.M

Wed Oct 20 13:02:58 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92480.D Vial: 2
 Acq On : 20 Oct 2010 8:47 am Operator: ninap
 Sample : icc4329-50 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 09:46:01 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 09:45:56 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.05	202	1300762	50.00	ppb	100
86) Butylbenzylphthalate	13.03	149	552332	50.00	ppb	100
87) Butyl stearate	13.13	56	370000	50.00	ppb	100
88) Benzo[a]anthracene	13.48	228	1209343	50.00	ppb	100
89) 3,3'-Dichlorobenzidine	13.52	252	426865	50.00	ppb	100
90) Chrysene	13.52	228	1065231	50.00	ppb	100
91) bis(2-Ethylhexyl)phthalate	13.72	149	764857	50.00	ppb	100
93) Di-n-octylphthalate	14.31	149	1355451	50.00	ppb	100
94) Benzo[b]fluoranthene	14.54	252	1302888	50.00	ppb	100
95) Benzo[k]fluoranthene	14.57	252	1034663	50.00	ppb	100
96) Benzo[a]pyrene	14.82	252	1143446	49.27	ppb	100
97) Indeno[1,2,3-cd]pyrene	15.83	276	1218200	50.79	ppb	100
98) Dibenz(a,h)acridine	15.62	279	921522	50.25	ppb	100
99) Dibenz[a,h]anthracene	15.86	278	1004373	49.72	ppb	100
100) 7,12-Dimethylbenz(a)anthra	14.57	256	461296	49.95	ppb	100
101) Benzo[g,h,i]perylene	16.09	276	1034492	48.82	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92480.D MF4329.M Wed Oct 20 13:02:58 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92480.D

Vial: 2

Acq On : 20 Oct 2010 8:47 am

Operator: ninap

Sample : icc4329-50

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 9:51 2010

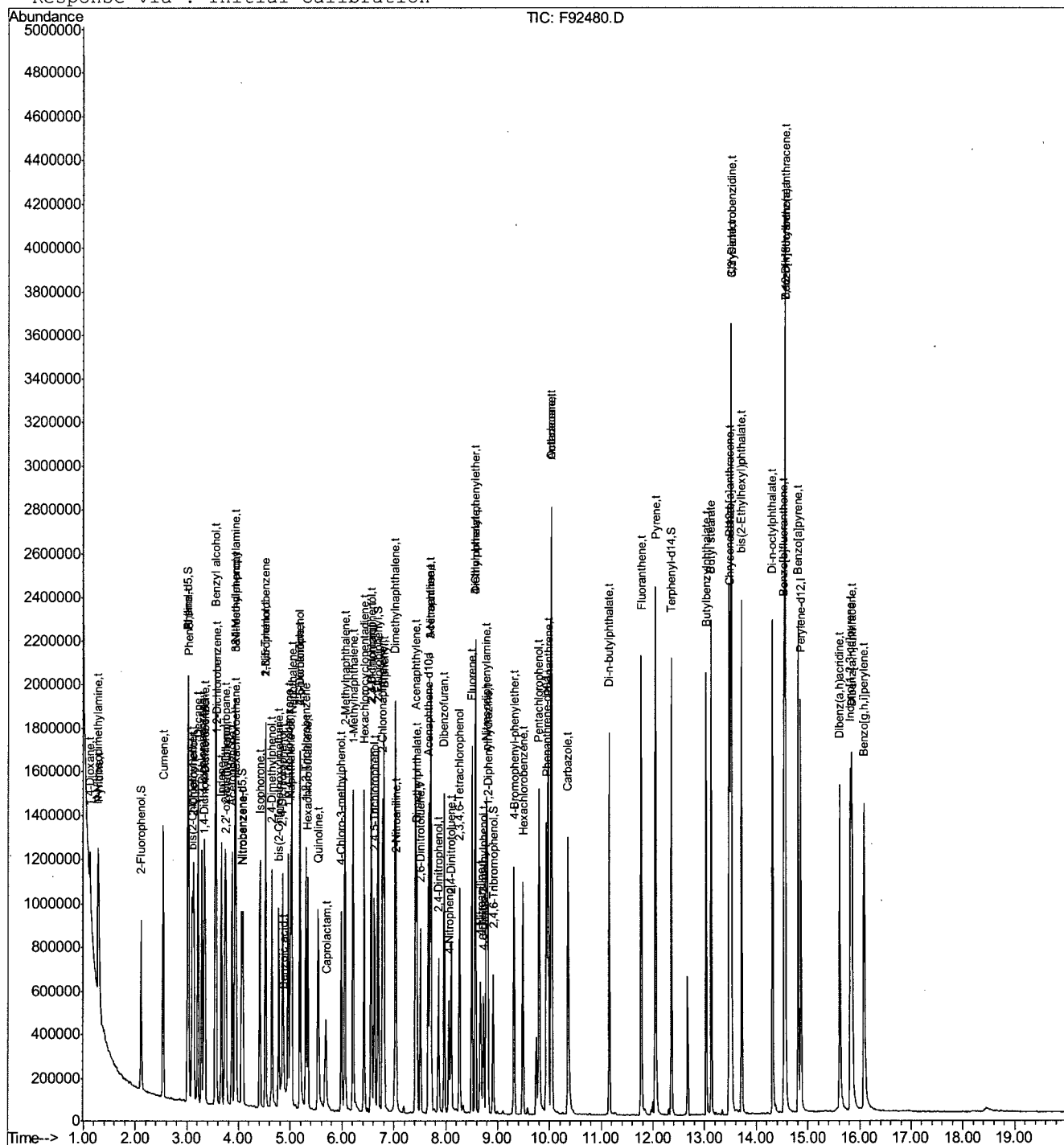
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, 2B-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



F92480.D MF4329.M

Wed Oct 20 13:02:59 2010

GCMS3A

Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:24:57 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 09:45:56 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	3.34	152	277385	40.00	ppb	0.00
24) Naphthalene-d8	5.01	136	1020950	40.00	ppb	0.00
47) Acenaphthene-d10	7.67	164	657607	40.00	ppb	0.00
69) Phenanthrene-d10	9.95	188	1127353	40.00	ppb	0.01
83) Chrysene-d12	13.51	240	1148710	40.00	ppb	0.01
92) Perylene-d12	14.87	264	1002744	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4A	3.34	152	277385	40.00	ppb	0.00
104) Acenaphthene-d10a	7.67	164	657607	40.00	ppb	0.00
106) Phenanthrene-d10a	9.95	188	1127353	40.00	ppb	0.01
108) Chrysene-d12a	13.51	240	1148710	40.00	ppb	0.01

System Monitoring Compounds

5) 2-Fluorophenol	2.12	112	938728	103.60	ppb	0.00
Spiked Amount	50.000		Recovery	=	207.20%	
8) Phenol-d5	3.03	99	1127887	93.42	ppb	0.02
Spiked Amount	50.000		Recovery	=	186.84%	
25) Nitrobenzene-d5	4.07	82	993040	98.65	ppb	0.01
Spiked Amount	50.000		Recovery	=	197.30%	
51) 2-Fluorobiphenyl	6.71	172	1967593	91.15	ppb	0.01
Spiked Amount	50.000		Recovery	=	182.30%	
73) 2,4,6-Tribromophenol	8.93	330	266922	98.58	ppb	0.02
Spiked Amount	50.000		Recovery	=	197.16%	
85) Terphenyl-d14	12.37	244	2061421	93.23	ppb	0.01
Spiked Amount	50.000		Recovery	=	186.46%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	455726	102.96	ppb	95
3) Pyridine	1.28	79	1019312	105.28	ppb	97
4) N-Nitrosodimethylamine	1.27	74	631461	105.65	ppb	97
6) Indene	3.67	116	1248437	95.07	ppb	97
7) Cumene	2.54	105	1672447	93.70	ppb	99
9) Phenol	3.05	94	1182812	93.11	ppb	90
10) Aniline	3.02	93	1117964	92.76	ppb	83
11) bis(2-Chloroethyl)ether	3.11	93	864820	93.55	ppb	98
12) 2-Chlorophenol	3.14	128	864488	95.18	ppb	99
13) Decane	3.22	43	918722	89.91	ppb	97
14) 1,3-Dichlorobenzene	3.29	146	1001709	93.86	ppb	97
15) 1,4-Dichlorobenzene	3.35	146	957523	93.19	ppb	99
16) Benzyl alcohol	3.57	108	548127	87.06	ppb	98
17) 1,2-Dichlorobenzene	3.58	146	827692	87.32	ppb	100
18) Acetophenone	3.89	105	1186976	97.01	ppb	97
19) 2-Methylphenol	3.75	108	784018	94.54	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.76	121	255509	93.22	ppb	98
21) 3&4-Methylphenol	3.95	108	726520	85.41	ppb	98
22) n-Nitroso-di-n-propylamine	3.94	70	565530	90.31	ppb	98
23) Hexachloroethane	3.95	201	314722	89.44	ppb	96
26) Nitrobenzene	4.09	123	442284	94.95	ppb	99
27) Quinoline	5.56	129	1738348	97.96	ppb	99
28) Isophorone	4.43	82	1667140	94.78	ppb	98
29) 2-Nitrophenol	4.53	139	439960	92.07	ppb	97

(#)= qualifier out of range (m) = manual integration

F92481.D MF4329.M

Wed Oct 20 13:04:15 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:24:57 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 09:45:56 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

8.6.32
8

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.66	107	855792	99.38	ppb	99
31) Benzoic acid	4.99	105	703185m	129.94	ppb	
32) bis(2-Chloroethoxy)methane	4.79	93	1092529	94.48	ppb	98
33) 2,4-Dichlorophenol	4.86	162	822554	97.14	ppb	99
34) 2,6-Dichlorophenol	5.19	162	776950	95.05	ppb	100
35) 1,3,5-Trichlorobenzene	4.53	180	814357	90.73	ppb	100
36) 1,2,4-Trichlorobenzene	4.96	180	831424	91.29	ppb	99
37) 1,2,3-Trichlorobenzene	5.31	180	833796	94.35	ppb	99
38) Naphthalene	5.04	128	2441771	91.94	ppb	99
39) 4-Chloroaniline	5.20	127	961079	86.17	ppb	99
40) 2,3-Dichloroaniline	6.57	161	900086	96.22	ppb	100
41) Caprolactam	5.75	55	531426m	106.12	ppb	
42) Hexachlorobutadiene	5.34	225	472551	93.07	ppb	98
43) 4-Chloro-3-methylphenol	6.01	107	806843	98.05	ppb	89
44) 2-Methylnaphthalene	6.07	142	1720476	89.50	ppb	99
45) 1-Methylnaphthalene	6.22	142	1643216	92.42	ppb	99
46) Dimethylnaphthalene	7.04	156	1467862	94.23	ppb	99
48) Hexachlorocyclopentadiene	6.43	237	860455	194.42	ppb	100
49) 2,4,6-Trichlorophenol	6.58	196	578430	94.92	ppb	97
50) 2,4,5-Trichlorophenol	6.64	196	665459	96.76	ppb	98
52) 2-Chloronaphthalene	6.79	162	1675163	91.42	ppb	99
53) Biphenyl	6.82	154	1933488	90.11	ppb	100
54) 2-Nitroaniline	7.06	65	512286	96.49	ppb	99
55) Dimethylphthalate	7.45	163	1861845	92.83	ppb	99
56) Acenaphthylene	7.43	152	2729474	92.71	ppb	99
57) 2,6-Dinitrotoluene	7.53	165	440021	98.70	ppb	97
58) 3-Nitroaniline	7.73	138	438485	88.30	ppb	99
59) Acenaphthene	7.73	153	1515970	87.07	ppb	95
60) 2,4-Dinitrophenol	7.88	184	514211	243.07	ppb	95
61) 4-Nitrophenol	8.09	109	251544	104.22	ppb	98
62) Dibenzofuran	7.98	168	2388590	92.20	ppb	97
63) 2,4-Dinitrotoluene	8.13	165	591338	95.78	ppb	99
64) 2,3,4,6-Tetrachlorophenol	8.28	232	558608	94.44	ppb	# 18
65) Diethylphthalate	8.59	149	1686660	90.73	ppb	99
66) Fluorene	8.52	166	1939681	93.24	ppb	97
67) 4-Chlorophenyl-phenylether	8.58	204	895212	89.78	ppb	98
68) 4-Nitroaniline	8.72	138	523617	98.17	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.76	198	391146	112.21	ppb	# 98
71) n-Nitrosodiphenylamine	8.81	169	1328803	88.69	ppb	99
72) 1,2-Diphenylhydrazine	8.82	77	1794747	86.62	ppb	99
74) 4-Bromophenyl-phenylether	9.33	248	603852	93.96	ppb	98
75) Hexachlorobenzene	9.50	284	584080	90.48	ppb	99
76) Pentachlorophenol	9.82	266	784157	192.45	ppb	97
77) Phenanthrene	10.00	178	2770519	92.87	ppb	99
78) Anthracene	10.07	178	2575113	87.45	ppb	99
79) Carbazole	10.38	167	2645627	89.09	ppb	99
80) Di-n-butylphthalate	11.17	149	3198397	88.65	ppb	99
81) Fluoranthene	11.79	202	3165771	89.54	ppb	98
82) Octadecane	10.05	57	1125686	86.07	ppb	99

(#)=qualifier out of range (m)=manual integration

F92481.D MF4329.M

Wed Oct 20 13:04:15 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D Vial: 3
 Acq On : 20 Oct 2010 9:53 am Operator: ninap
 Sample : ic4329-100 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 10:24:57 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 09:45:56 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.06	202	3184895	92.94	ppb	99
86) Butylbenzylphthalate	13.04	149	1373200	94.37	ppb	96
87) Butyl stearate	13.13	56	826104	84.75	ppb	95
88) Benzo[a]anthracene	13.49	228	3016565	94.68	ppb	97
89) 3,3'-Dichlorobenzidine	13.53	252	1012444	90.03	ppb	98
90) Chrysene	13.54	228	2556999	91.12	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.72	149	1851642	91.90	ppb	100
93) Di-n-octylphthalate	14.32	149	3268688	89.83	ppb	98
94) Benzo[b]fluoranthene	14.56	252	3454504m	98.77	ppb	
95) Benzo[k]fluoranthene	14.59	252	2168531m	78.08	ppb	
96) Benzo[a]pyrene	14.83	252	2787369	89.49	ppb	97
97) Indeno[1,2,3-cd]pyrene	15.85	276	3083636	95.79	ppb	96
98) Dibenz(a,h)acridine	15.63	279	2386722	96.96	ppb	99
99) Dibenz[a,h]anthracene	15.88	278	2475228	91.29	ppb	99
100) 7,12-Dimethylbenz(a)anthra	14.59	256	1112387	89.74	ppb	97
101) Benzo[g,h,i]perylene	16.12	276	2685956	94.45	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92481.D MF4329.M Wed Oct 20 13:04:15 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst :

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:26 2010

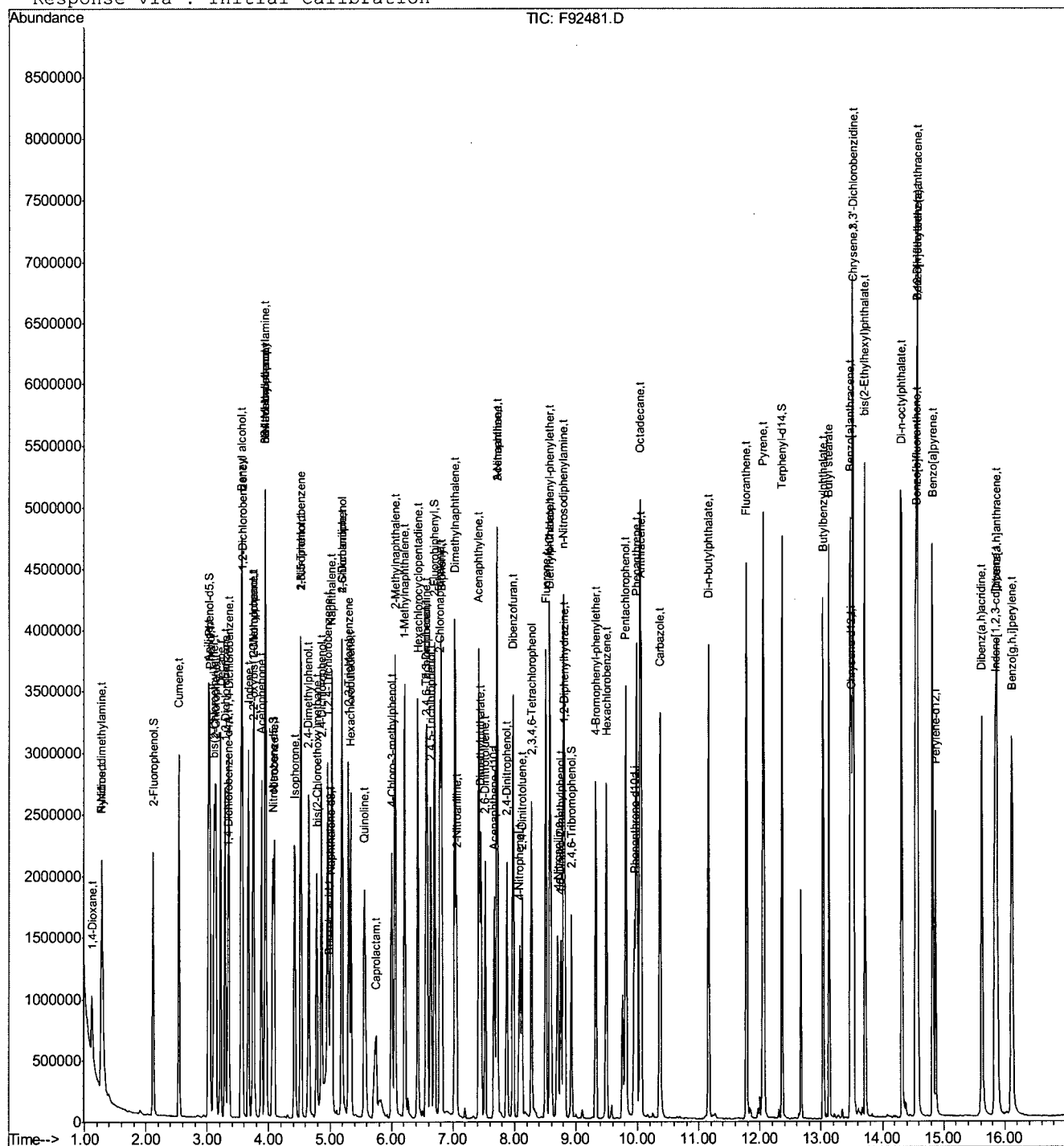
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92481.D **Analyst approved:** 10/20/10 13:04 Nina Pandya
Injection Time: 10/20/10 09:53 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		4.99	Poorly defined baseline
Caprolactam	105-60-2		5.75	Poorly defined baseline
Benzo(b)fluoranthene	205-99-2		14.56	Overlapping peak
Benzo(k)fluoranthene	207-08-9		14.59	Overlapping peak

8.6.32.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:24 2010

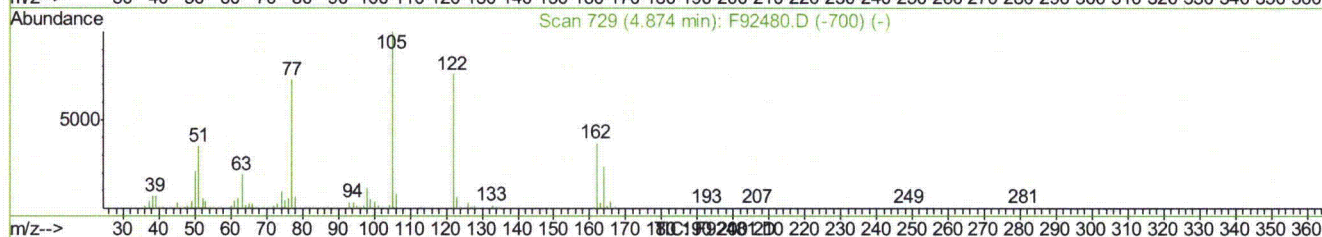
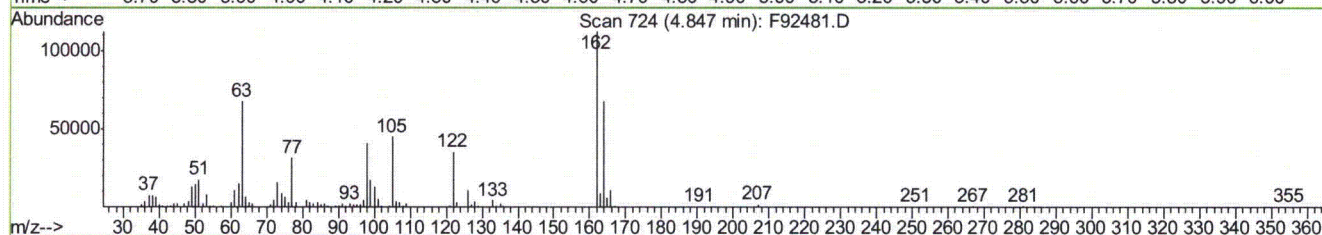
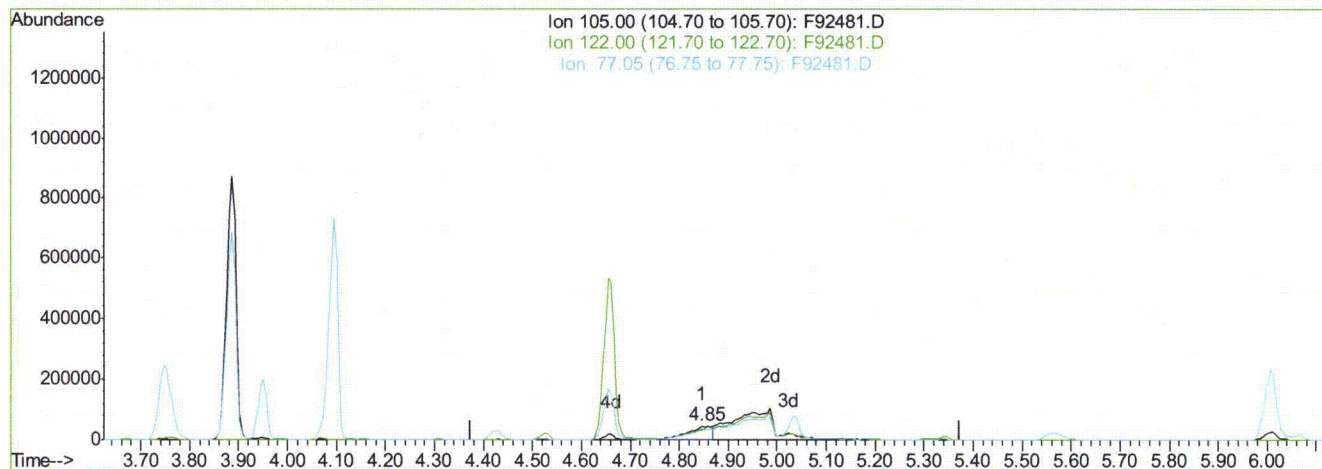
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 09:45:56 2010

Response via : Multiple Level Calibration



(31) Benzoic acid (t)

4.85min 29.81ppb

response 161325

Ion	Exp%	Act%
105.00	100	100
122.00	76.10	68.95
77.05	74.10	58.72
0.00	0.00	0.00

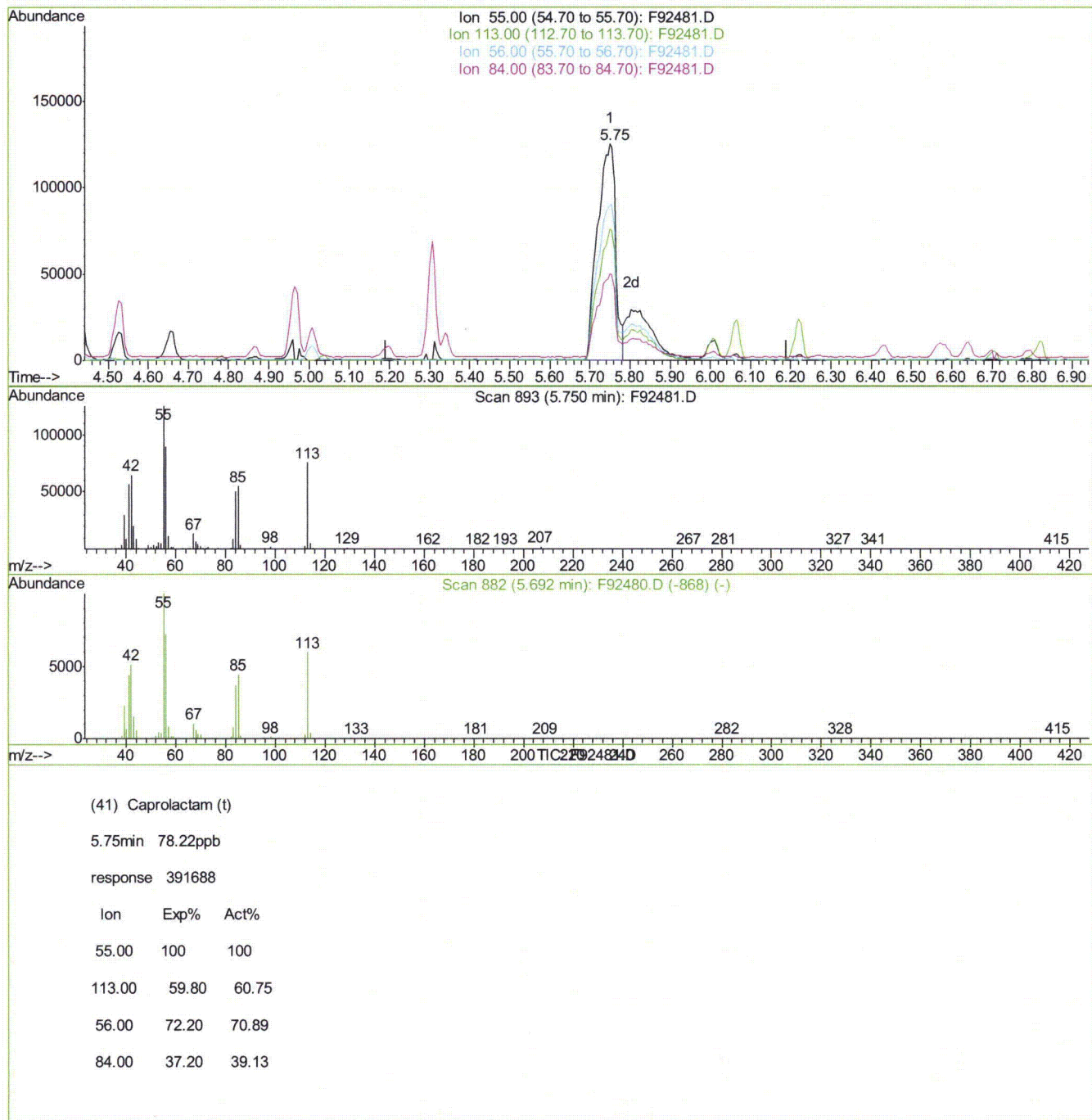
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D
Acq On : 20 Oct 2010 9:53 am
Sample : ic4329-100
Misc : op46122,ef4329
MS Integration Params: RTEINT.P
Quant Time: Oct 20 10:25 2010

Vial: 3
Operator: ninap
Inst : MSF
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Wed Oct 20 09:45:56 2010
Response via : Multiple Level Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:25 2010

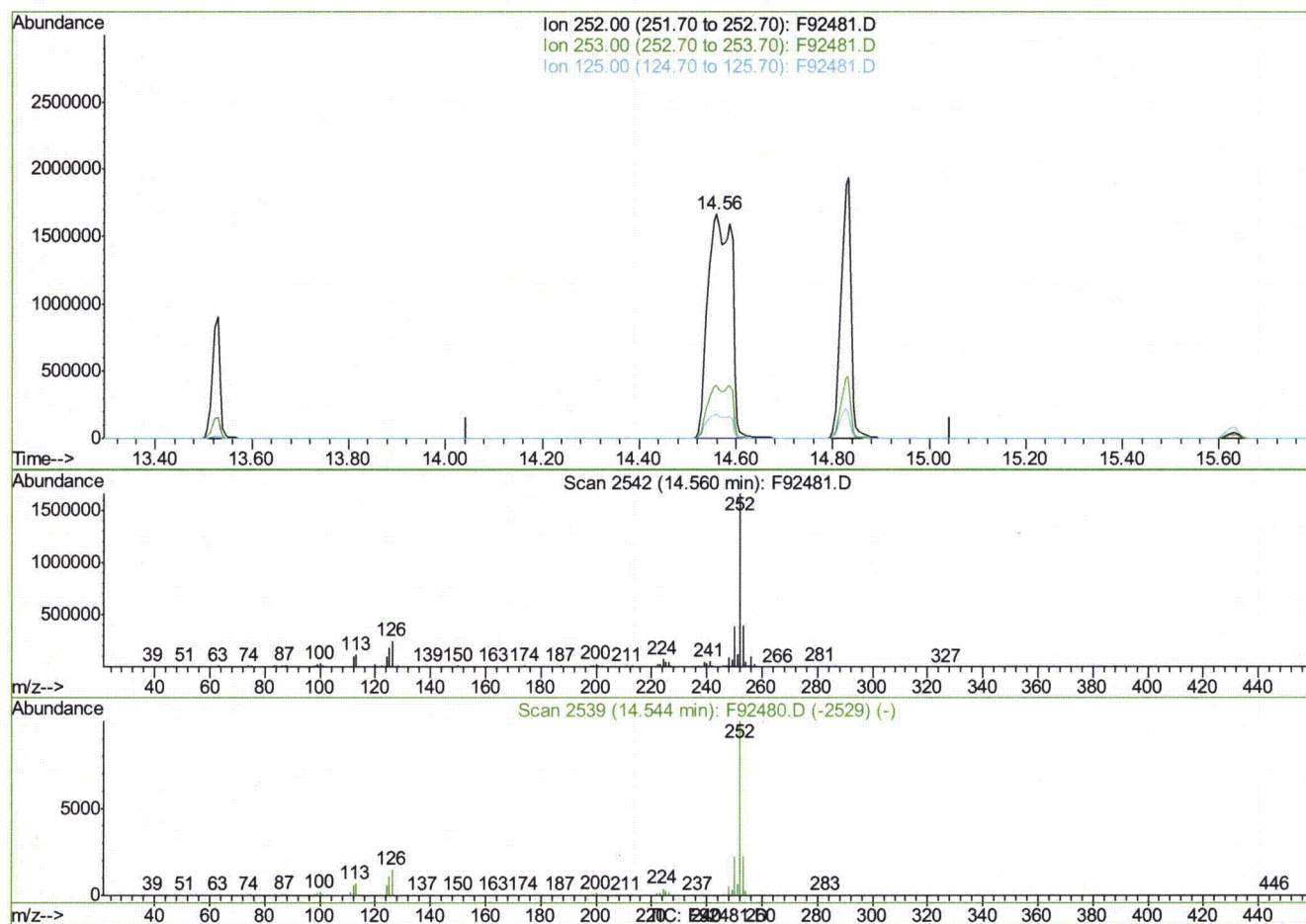
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 09:45:56 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.56min 161.82ppb

response 5659550

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	23.70
125.00	9.60	10.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:26 2010

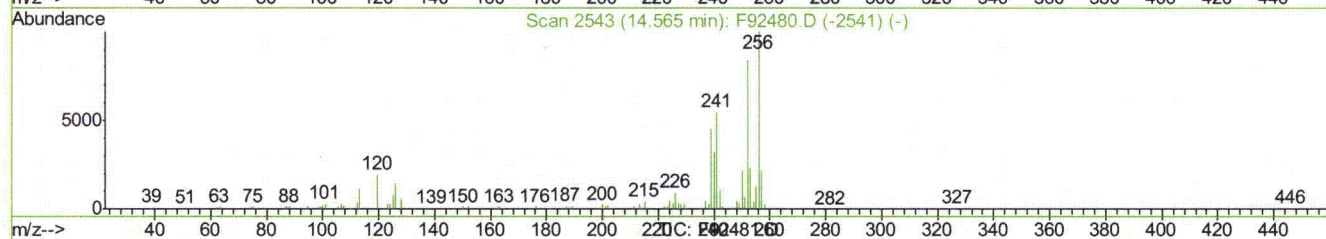
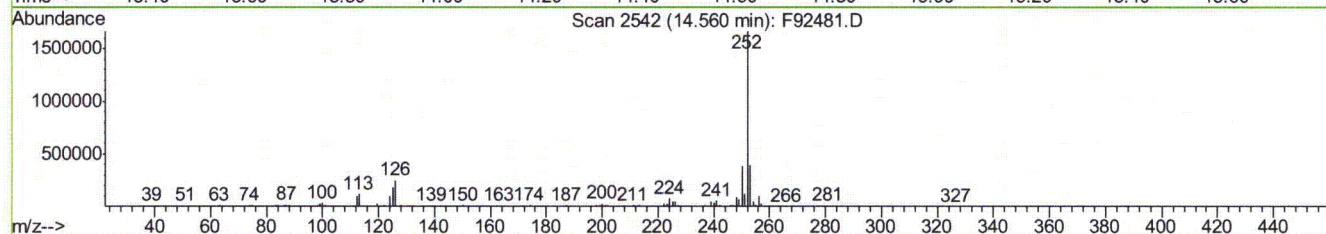
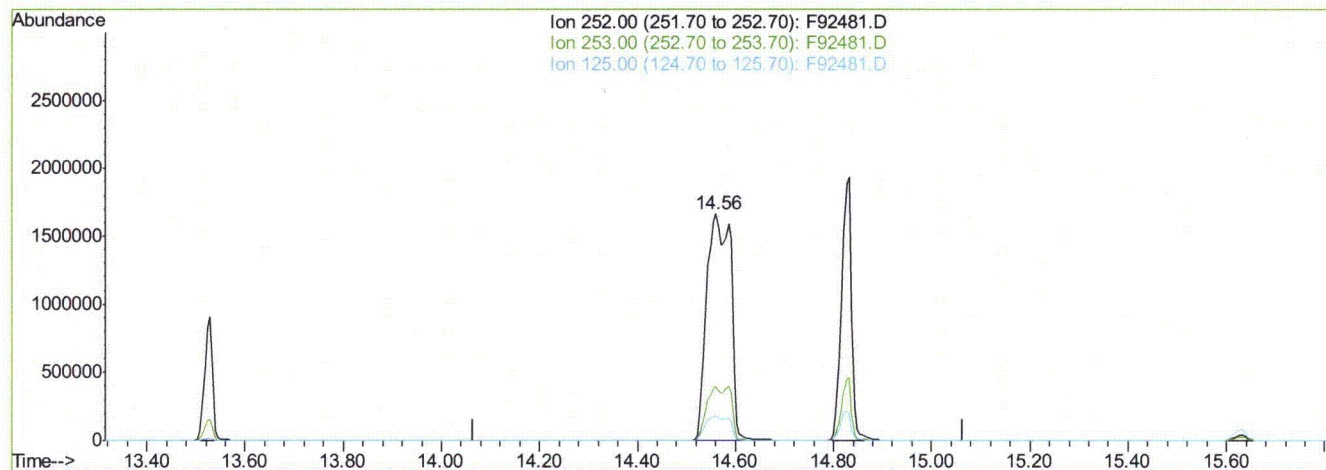
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 09:45:56 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (I)

14.56min 203.77ppb

response 5659550

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	23.70
125.00	11.30	10.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:26 2010

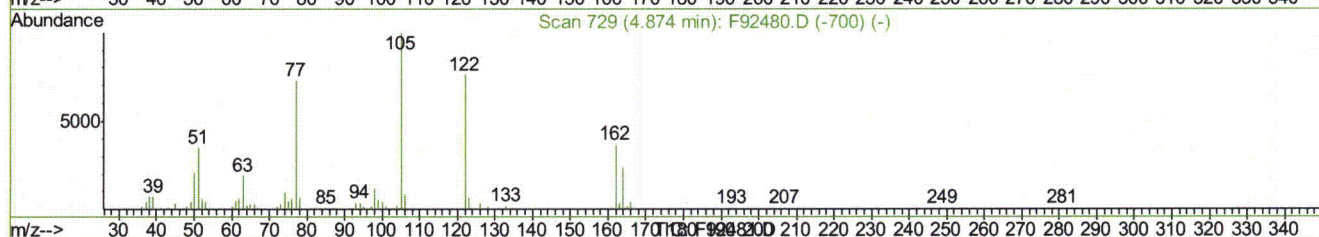
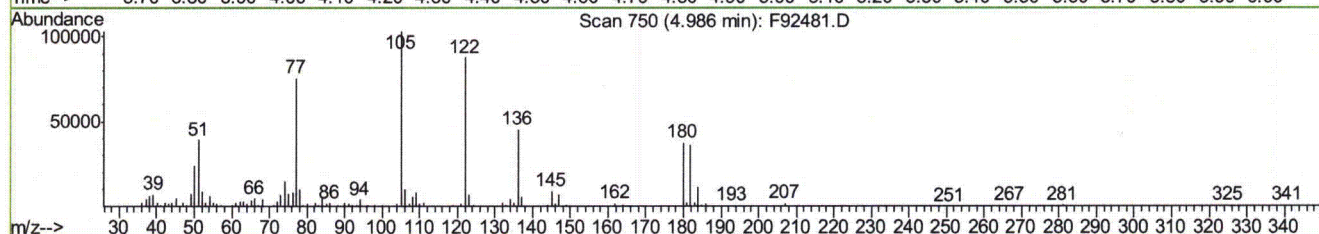
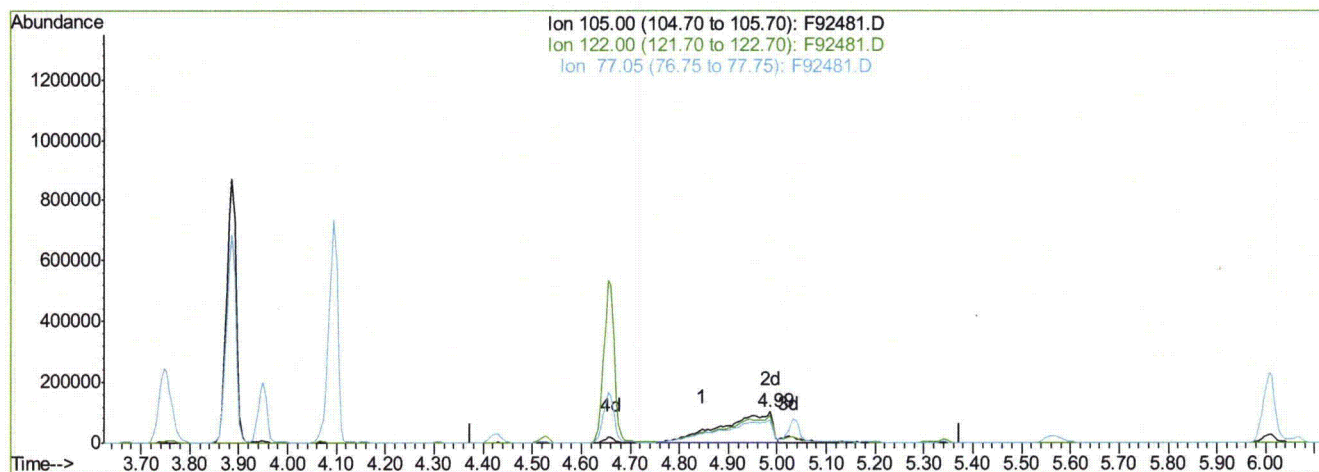
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Multiple Level Calibration



(31) Benzoic acid (t)

4.99min 129.94ppb m

response 703185

Ion	Exp%	Act%
105.00	100	100
122.00	76.10	85.14
77.05	74.10	73.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:26 2010

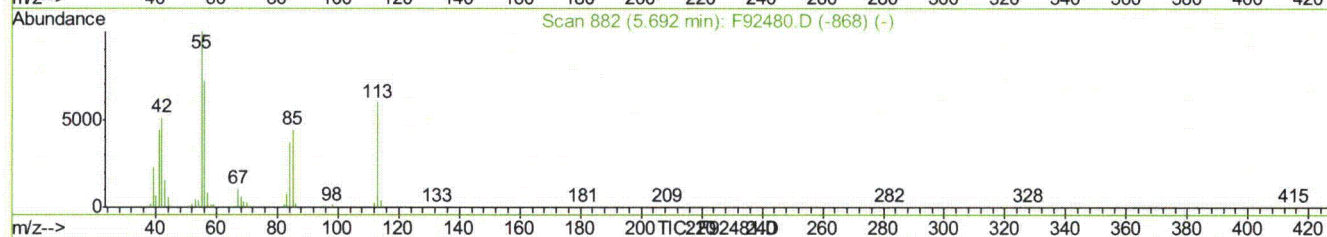
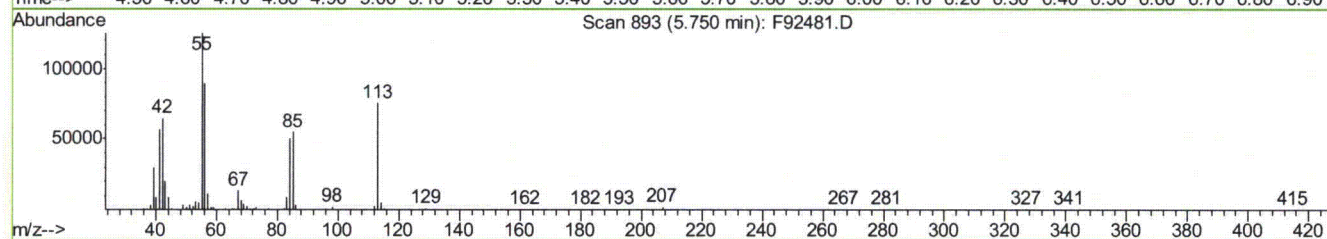
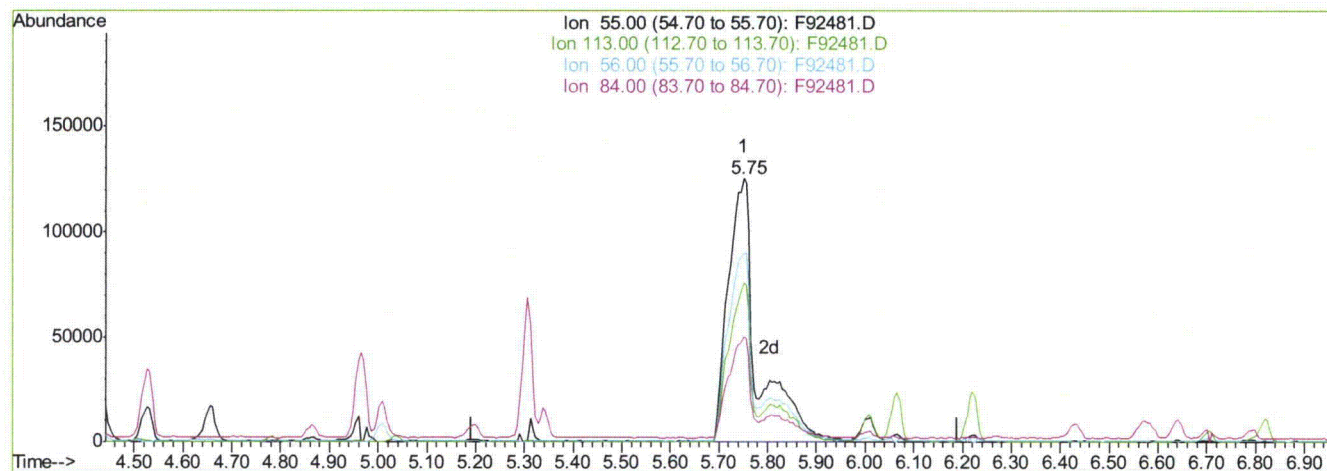
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Multiple Level Calibration



(41) Caprolactam (t)

5.75min 106.12ppb m

response 531426

Ion	Exp%	Act%
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55.00	100	100
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113.00	59.80	60.50
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56.00	72.20	71.67
-------	-------	-------

84.00	37.20	40.24
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Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:26 2010

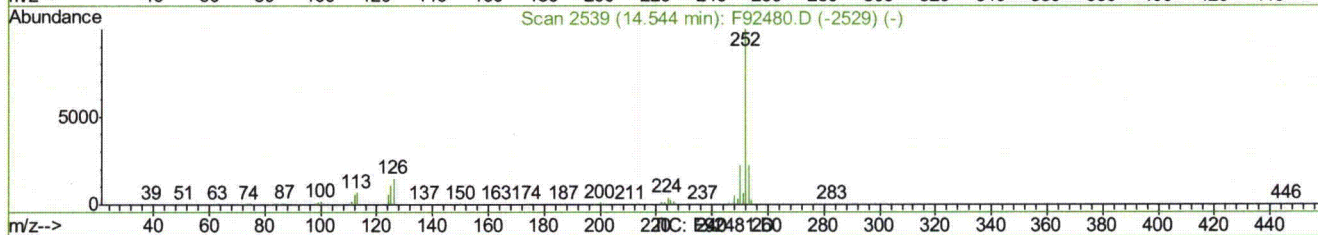
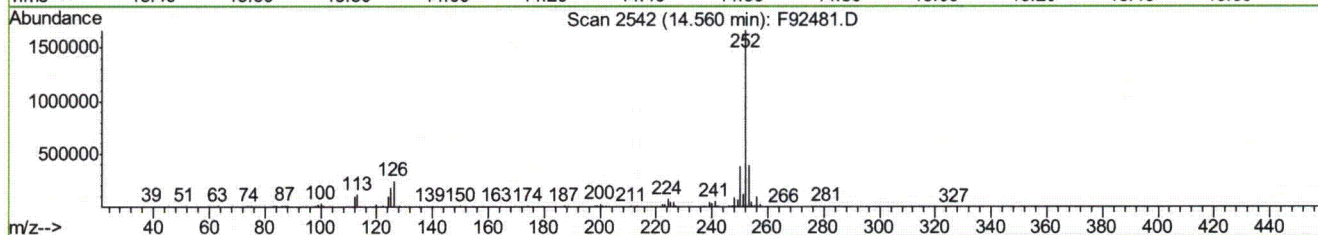
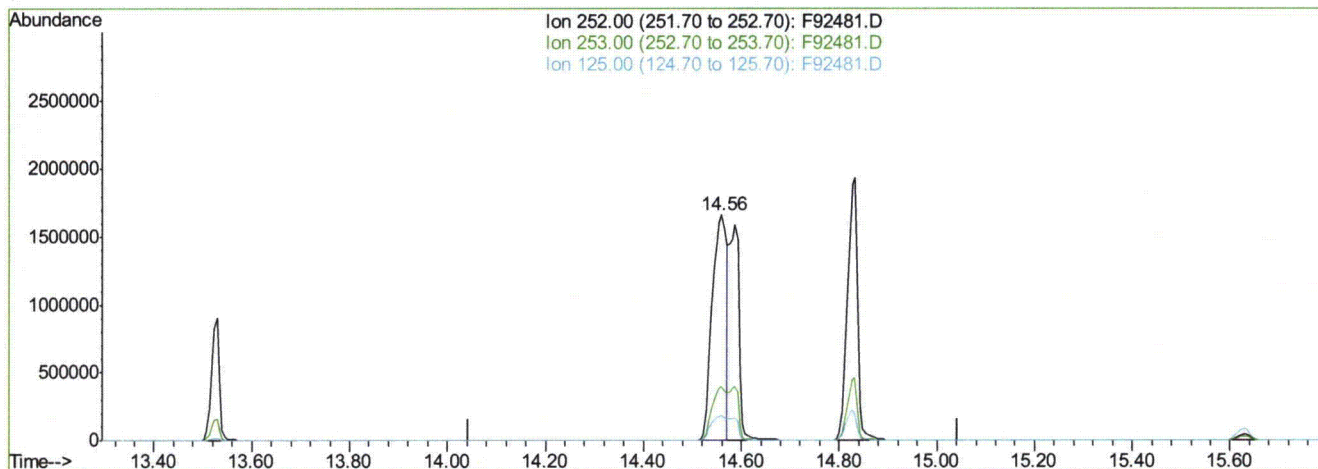
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.56min 98.77ppb m

response 3454504

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	23.71
125.00	9.60	10.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92481.D

Vial: 3

Acq On : 20 Oct 2010 9:53 am

Operator: ninap

Sample : ic4329-100

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:26 2010

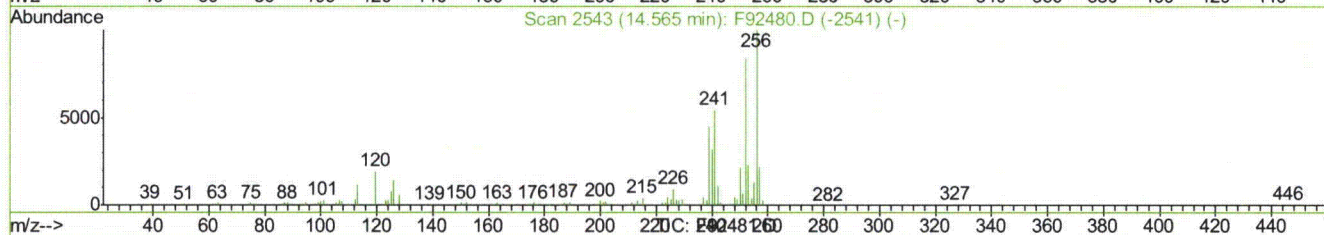
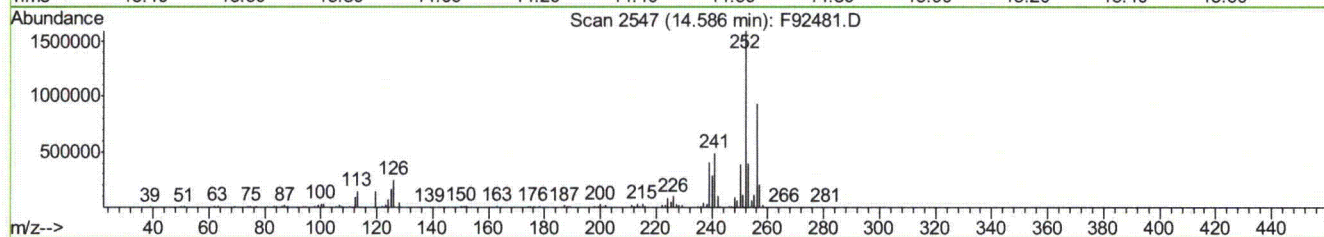
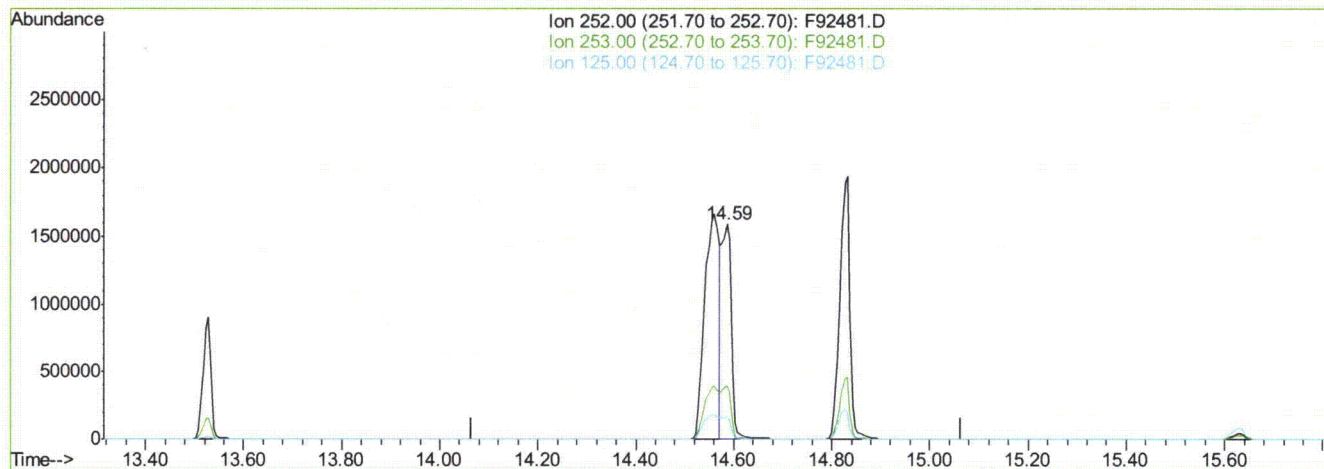
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.59min 78.08ppb m

response 2168531

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	25.04
125.00	11.30	10.30
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329D\F92482.D

Vial: 4

Acq On : 20 Oct 2010 10:17 am

Operator: ninap

Sample : ic4329-1

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:57:31 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 10:27:11 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	302644	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	1059316	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	698251	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	1174310	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	1336710	40.00	ppb	0.00
92) Perylene-d12	14.86	264	1130914	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	302644	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	698251	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	1174310	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	1336710	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	10556	1.05	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.10%	
8) Phenol-d5	3.02	99	10123	0.79	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.58%	
25) Nitrobenzene-d5	4.06	82	10110	0.97	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.94%	
51) 2-Fluorobiphenyl	6.69	172	31158	1.42	ppb	-0.01
Spiked Amount	50.000		Recovery	=	2.84%	
73) 2,4,6-Tribromophenol	8.91	330	2747	0.98	ppb	0.00
Spiked Amount	50.000		Recovery	=	1.96%	
85) Terphenyl-d14	12.36	244	33146	1.33	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.66%	

Target Compounds

						Qvalue
3) Pyridine	1.31	79	15463	1.43	ppb	94
4) N-Nitrosodimethylamine	1.28	74	8671	1.29	ppb	89
6) Indene	3.67	116	16616	1.19	ppb	95
7) Cumene	2.54	105	23308	1.24	ppb	100
9) Phenol	3.03	94	12724	0.95	ppb	# 30
10) Aniline	3.02	93	19146	1.51	ppb	86
11) bis(2-Chloroethyl)ether	3.10	93	12168	1.25	ppb	95
12) 2-Chlorophenol	3.13	128	8885	0.92	ppb	99
13) Decane	3.21	43	14094	1.33	ppb	96
14) 1,3-Dichlorobenzene	3.28	146	14006	1.24	ppb	92
15) 1,4-Dichlorobenzene	3.35	146	13339	1.23	ppb	95
16) Benzyl alcohol	3.55	108	5091	0.79	ppb	88
17) 1,2-Dichlorobenzene	3.57	146	13686	1.41	ppb	99
18) Acetophenone	3.87	105	10421	0.79	ppb	96
19) 2-Methylphenol	3.74	108	6387	0.73	ppb	93
20) 2,2'-oxybis(1-Chloropropan	3.75	121	3491	1.21	ppb	89
21) 3&4-Methylphenol	3.93	108	4764	0.55	ppb	94
22) n-Nitroso-di-n-propylamine	3.93	70	7435	1.14	ppb	90
23) Hexachloroethane	3.95	201	5336	1.47	ppb	92
26) Nitrobenzene	4.08	123	4846	1.03	ppb	90
27) Quinoline	5.53	129	19037	1.04	ppb	98
28) Isophorone	4.40	82	24965	1.40	ppb	99
29) 2-Nitrophenol	4.52	139	4099	0.86	ppb	# 64
30) 2,4-Dimethylphenol	4.64	107	8731	0.98	ppb	91

(#)= qualifier out of range (m) = manual integration

F92482.D MF4329.M

Fri Oct 22 16:00:27 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329D\F92482.D Vial: 4
 Acq On : 20 Oct 2010 10:17 am Operator: ninap
 Sample : ic4329-1 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 10:57:31 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 10:27:11 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) bis(2-Chloroethoxy)methane	4.77	93	10981	0.94	ppb	97
33) 2,4-Dichlorophenol	4.85	162	6772	0.78	ppb	99
34) 2,6-Dichlorophenol	5.18	162	7594	0.92	ppb	94
35) 1,3,5-Trichlorobenzene	4.52	180	11920	1.34	ppb	98
36) 1,2,4-Trichlorobenzene	4.95	180	12053	1.33	ppb	96
37) 1,2,3-Trichlorobenzene	5.30	180	12034	1.35	ppb	96
38) Naphthalene	5.02	128	35351	1.34	ppb	98
39) 4-Chloroaniline	5.19	127	11205	1.04	ppb	96
40) 2,3-Dichloroaniline	6.55	161	12441	1.31	ppb	96
41) Caprolactam	5.63	55	6110	1.14	ppb	85
42) Hexachlorobutadiene	5.33	225	7643	1.50	ppb	97
43) 4-Chloro-3-methylphenol	5.97	107	6829	0.81	ppb	88
44) 2-Methylnaphthalene	6.05	142	23817	1.26	ppb	99
45) 1-Methylnaphthalene	6.20	142	23236	1.31	ppb	96
46) Dimethylnaphthalene	7.02	156	22063	1.41	ppb	97
48) Hexachlorocyclopentadiene	6.42	237	8066	1.74	ppb	96
49) 2,4,6-Trichlorophenol	6.56	196	7292	1.16	ppb	91
50) 2,4,5-Trichlorophenol	6.61	196	7422	1.03	ppb	90
52) 2-Chloronaphthalene	6.78	162	26449	1.42	ppb	99
53) Biphenyl	6.80	154	31747	1.47	ppb	97
54) 2-Nitroaniline	7.05	65	5191	0.94	ppb #	80
55) Dimethylphthalate	7.43	163	29844	1.45	ppb	99
56) Acenaphthylene	7.41	152	39802	1.32	ppb	96
57) 2,6-Dinitrotoluene	7.50	165	4567	0.97	ppb	81
59) Acenaphthene	7.71	153	26520	1.53	ppb	99
62) Dibenzofuran	7.96	168	38632	1.46	ppb	96
63) 2,4-Dinitrotoluene	8.10	165	5287	0.82	ppb	83
64) 2,3,4,6-Tetrachlorophenol	8.27	232	6183	1.01	ppb #	12
65) Diethylphthalate	8.56	149	28292	1.50	ppb	99
66) Fluorene	8.50	166	30651	1.44	ppb	98
67) 4-Chlorophenyl-phenylether	8.57	204	14712	1.46	ppb	95
70) 4,6-Dinitro-2-methylphenol	8.71	198	1571	0.41	ppb #	82
71) n-Nitrosodiphenylamine	8.77	169	19437	1.32	ppb	93
72) 1,2-Diphenylhydrazine	8.80	77	28768	1.43	ppb	98
74) 4-Bromophenyl-phenylether	9.31	248	8854	1.36	ppb	96
75) Hexachlorobenzene	9.48	284	9850	1.54	ppb	93
76) Pentachlorophenol	9.79	266	7455	1.79	ppb	97
77) Phenanthrene	9.97	178	47282	1.58	ppb	98
78) Anthracene	10.04	178	51892	1.81	ppb	98
79) Carbazole	10.37	167	38289	1.31	ppb	97
80) Di-n-butylphthalate	11.15	149	43794	1.24	ppb	98
81) Fluoranthene	11.77	202	51132	1.46	ppb	99
82) Octadecane	10.03	57	16085	1.27	ppb	91
84) Pyrene	12.05	202	53394	1.39	ppb	99
86) Butylbenzylphthalate	13.03	149	17884	1.09	ppb	95
87) Butyl stearate	13.13	56	24908	2.38	ppb	98
88) Benzo[a]anthracene	13.48	228	48179	1.34	ppb	99
89) 3,3'-Dichlorobenzidine	13.52	252	15289	1.23	ppb	85
90) Chrysene	13.51	228	52441	1.68	ppb	99

(#) = qualifier out of range (m) = manual integration

F92482.D MF4329.M Fri Oct 22 16:00:28 2010 GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329D\F92482.D Vial: 4
Acq On : 20 Oct 2010 10:17 am Operator: ninap
Sample : ic4329-1 Inst : MSF
Misc : op46122,ef4329 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 10:57:31 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Wed Oct 20 10:27:11 2010
Response via : Initial Calibration
DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) bis(2-Ethylhexyl)phthalate	13.72	149	24432	1.09	ppb	97
93) Di-n-octylphthalate	14.31	149	33536	0.86	ppb	99
94) Benzo[b]fluoranthene	14.53	252	31374m	0.80	ppb	
95) Benzo[k]fluoranthene	14.55	252	60504m	2.17	ppb	
96) Benzo[a]pyrene	14.81	252	32412	0.97	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.82	276	39454	1.11	ppb	99
98) Dibenzo(a,h)acridine	15.62	279	26716	0.98	ppb	87
99) Dibenzo[a,h]anthracene	15.85	278	31196	1.07	ppb	95
100) 7,12-Dimethylbenz(a)anthra	14.55	256	15933	1.20	ppb	96
101) Benzo[g,h,i]perylene	16.08	276	37534	1.20	ppb	99

8.6.33

8

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F92482.D MF4329.M Fri Oct 22 16:00:28 2010 GCMS3A

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329D\F92482.D

Vial: 4

Acq On : 20 Oct 2010 10:17 am

Operator: ninap

Sample : ic4329-1

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 16:00 2010

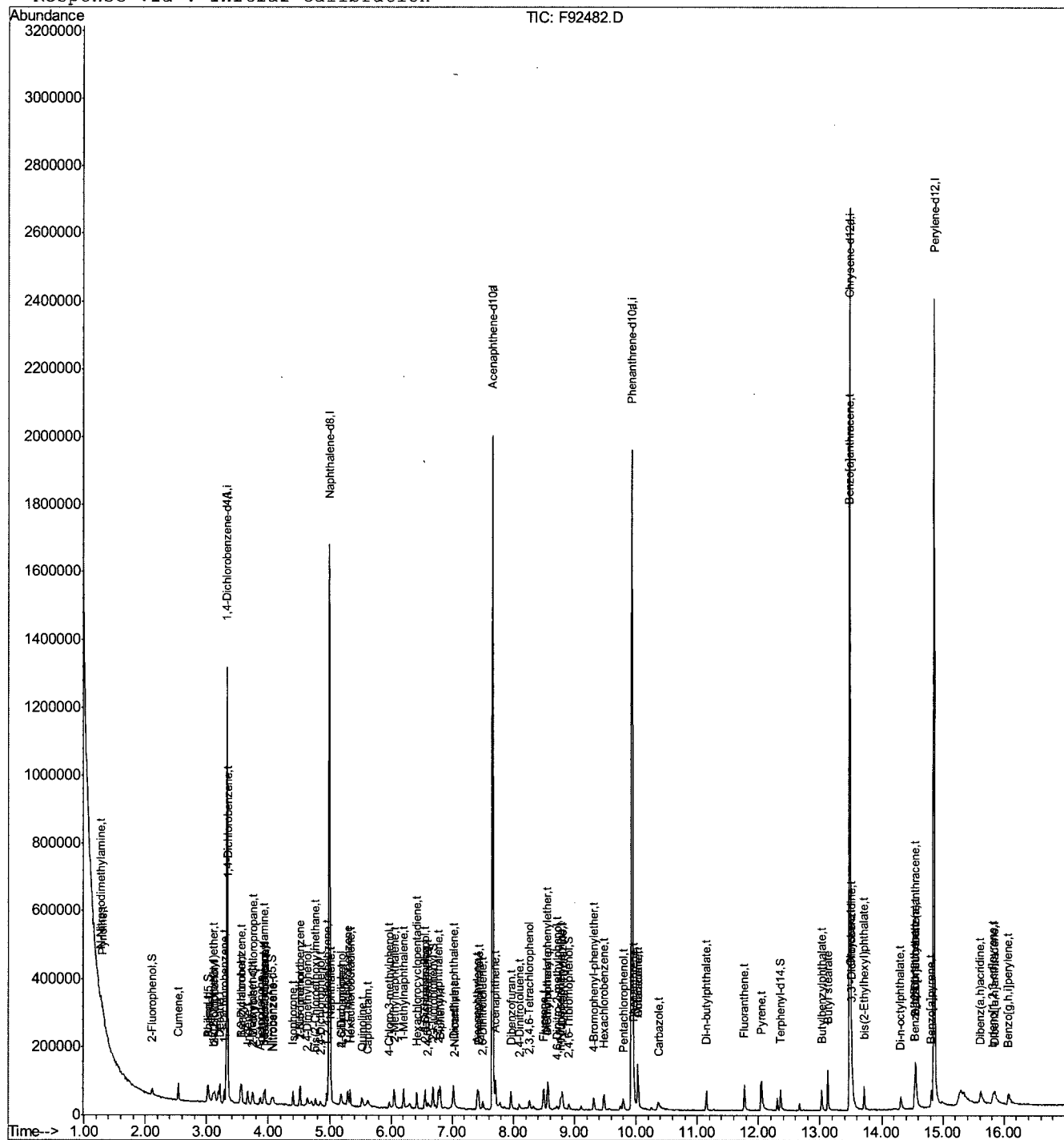
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



F92482.D MF4329.M

Fri Oct 22 16:00:29 2010

GCMS3A

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Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92482.D **Analyst approved:** 10/22/10 07:34 Nina Pandya
Injection Time: 10/20/10 10:17 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzoic acid	65-85-0		4.78	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		14.53	Overlapping peak
Benzo(k)fluoranthene	207-08-9		14.55	Overlapping peak

8.6.33.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92482.D

Vial: 4

Acq On : 20 Oct 2010 10:17 am

Operator: ninap

Sample : ic4329-1

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:58 2010

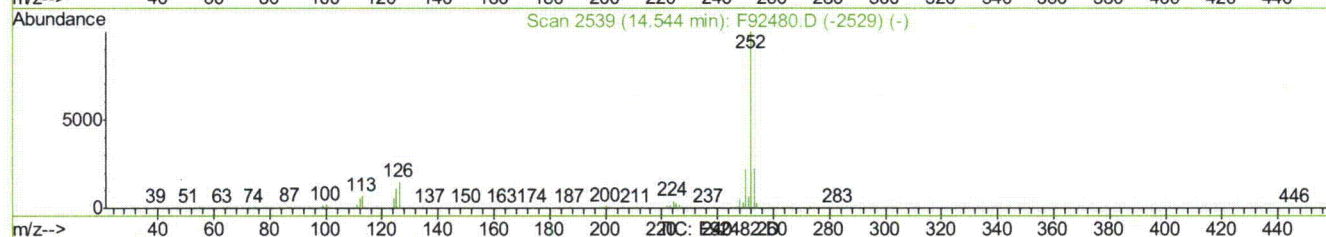
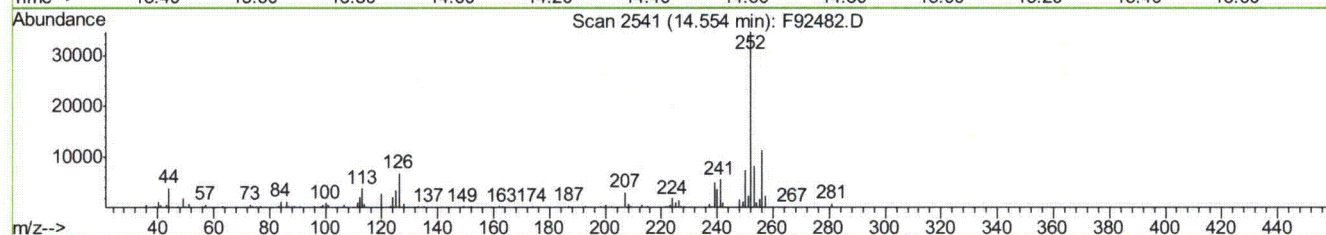
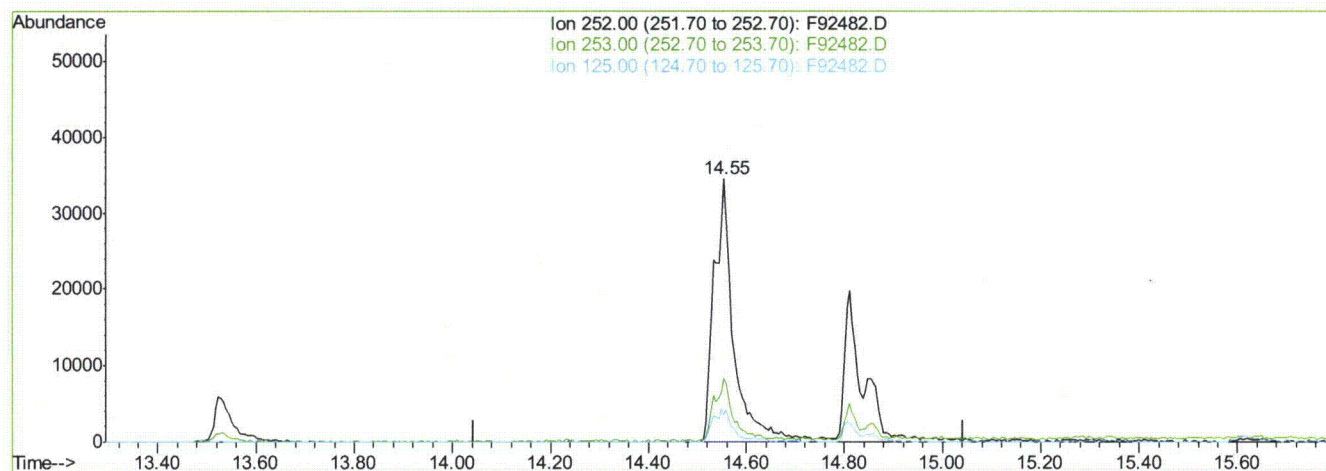
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 10:27:11 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.55min 2.43ppb

response 95452

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	23.22
125.00	9.60	10.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92482.D

Vial: 4

Acq On : 20 Oct 2010 10:17 am

Operator: ninap

Sample : ic4329-1

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 10:59 2010

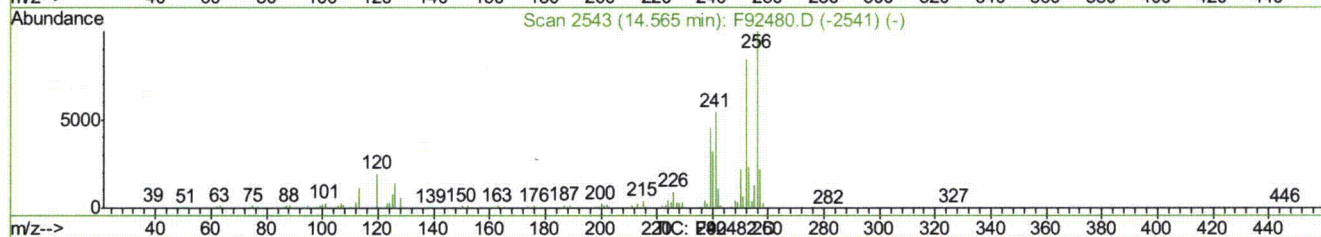
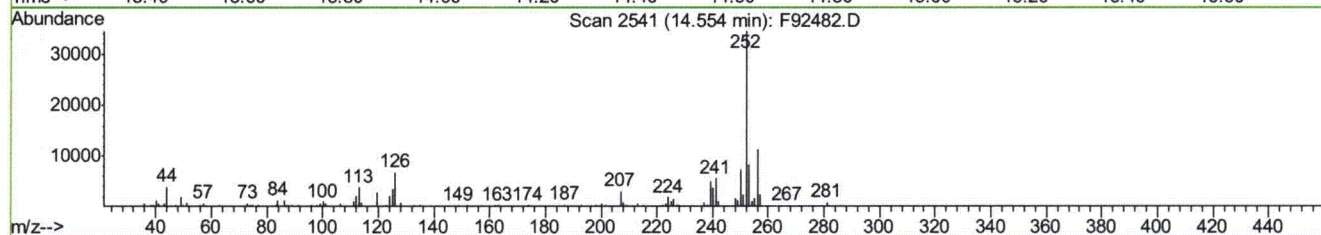
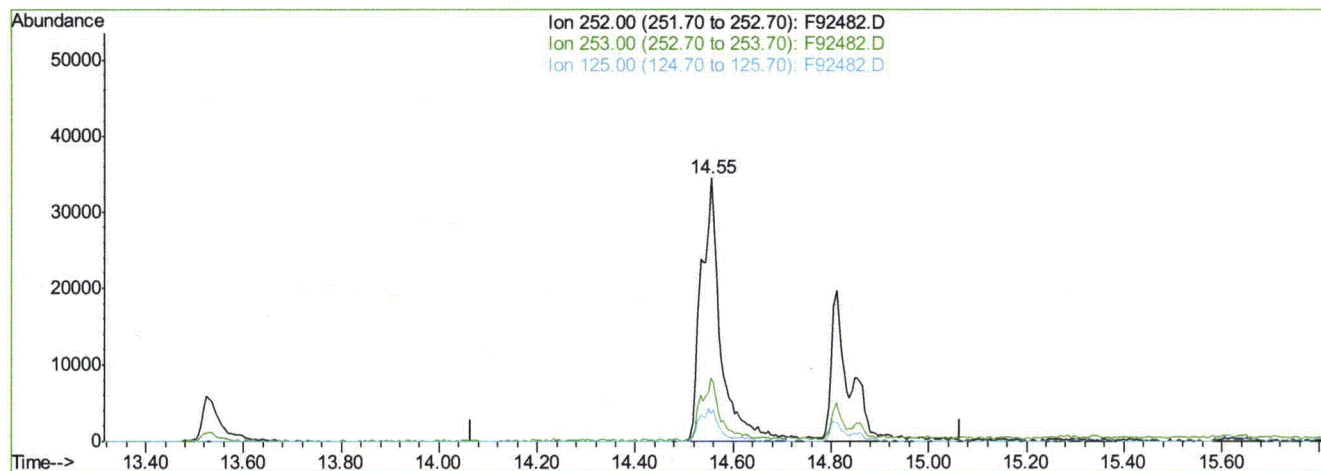
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 10:27:11 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 3.42ppb

response 95452

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	23.22
125.00	11.30	10.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92482.D

Vial: 4

Acq On : 20 Oct 2010 10:17 am

Operator: ninap

Sample : ic4329-1

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:00 2010

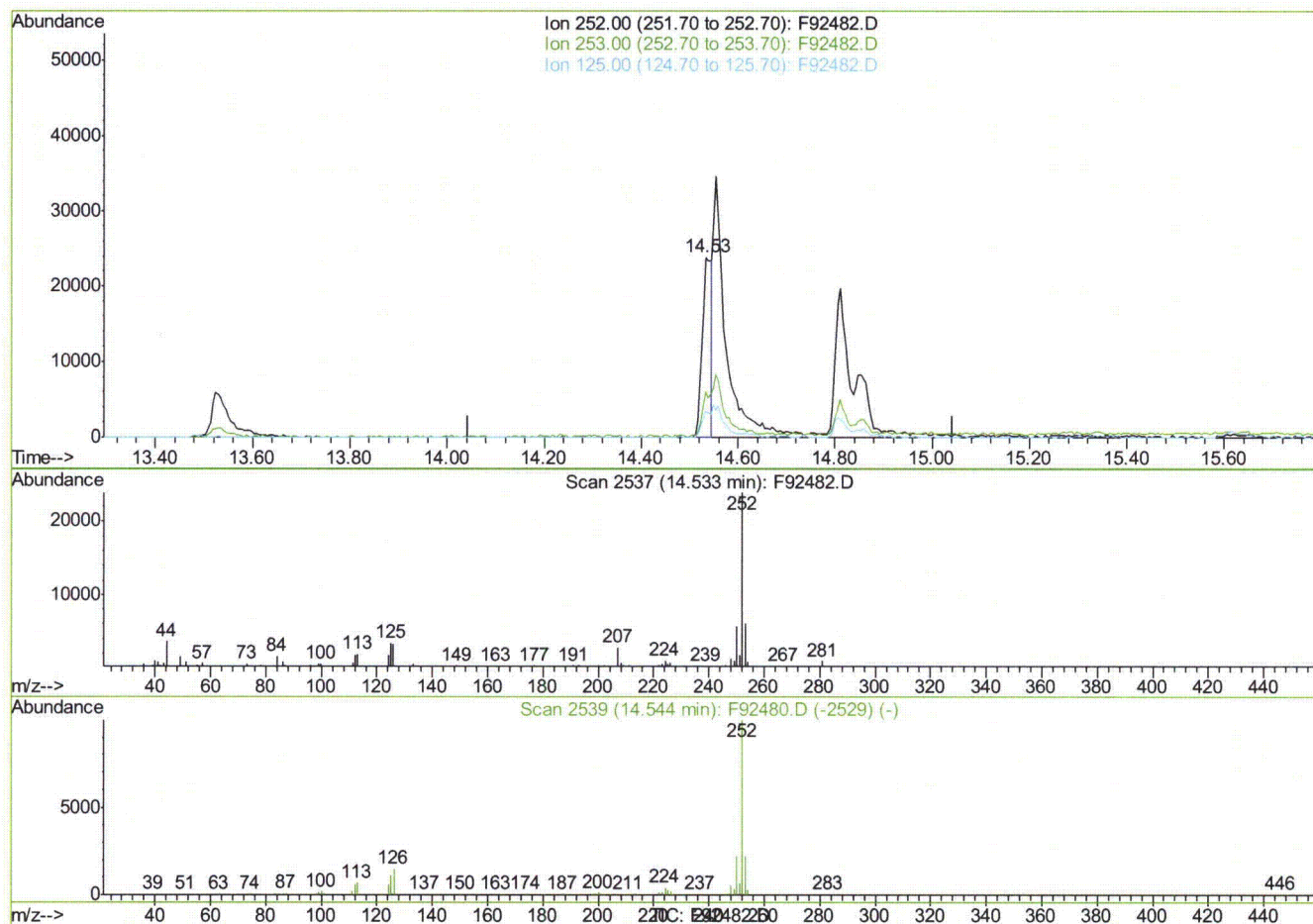
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Multiple Level Calibration



Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92482.D

Vial: 4

Acq On : 20 Oct 2010 10:17 am

Operator: ninap

Sample : ic4329-1

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 13:17 2010

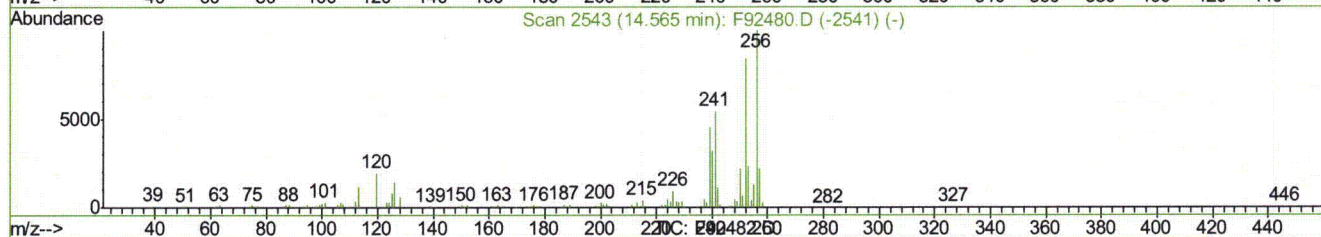
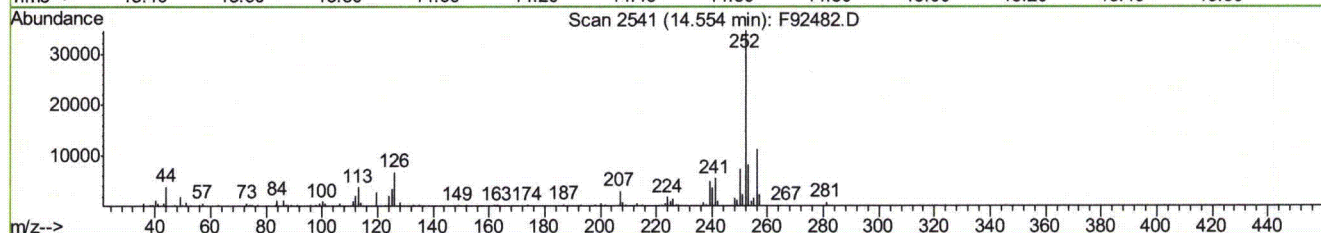
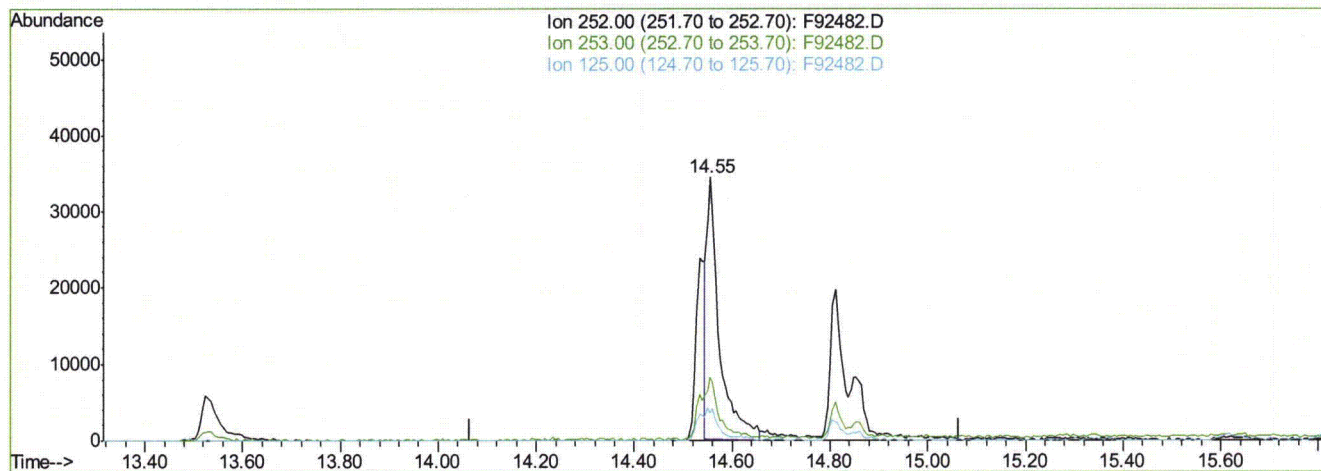
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 2.17ppb m

response 60504

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	23.88
125.00	11.30	10.27
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:05:25 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 11:04:46 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	305813	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	1137873	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	708710	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	1249643	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	1373632	40.00	ppb	0.00
92) Perylene-d12	14.86	264	1159810	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	305813	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	708710	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	1249643	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	1373632	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	17691	1.74	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.48%	
8) Phenol-d5	3.02	99	18597	1.44	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.88%	
25) Nitrobenzene-d5	4.06	82	21406	1.92	ppb	0.00
Spiked Amount	50.000		Recovery	=	3.84%	
51) 2-Fluorobiphenyl	6.69	172	53410	2.40	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.80%	
73) 2,4,6-Tribromophenol	8.91	330	4798	1.61	ppb	-0.01
Spiked Amount	50.000		Recovery	=	3.22%	
85) Terphenyl-d14	12.36	244	57237	2.24	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.48%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	10400	2.10	ppb	94
3) Pyridine	1.30	79	25605	2.34	ppb	97
4) N-Nitrosodimethylamine	1.28	74	14736	2.17	ppb	96
6) Indene	3.67	116	29794	2.11	ppb	100
7) Cumene	2.54	105	41317	2.17	ppb	99
9) Phenol	3.03	94	20383	1.51	ppb	# 43
10) Aniline	3.02	93	30469	2.38	ppb	87
11) bis(2-Chloroethyl)ether	3.10	93	22313	2.26	ppb	97
12) 2-Chlorophenol	3.13	128	18302	1.87	ppb	97
13) Decane	3.21	43	23881	2.23	ppb	98
14) 1,3-Dichlorobenzene	3.29	146	25268	2.22	ppb	96
15) 1,4-Dichlorobenzene	3.35	146	24365	2.23	ppb	97
16) Benzyl alcohol	3.55	108	9133	1.41	ppb	91
17) 1,2-Dichlorobenzene	3.57	146	24298	2.48	ppb	95
18) Acetophenone	3.87	105	24066	1.81	ppb	93
19) 2-Methylphenol	3.73	108	11326	1.27	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.75	121	6324	2.17	ppb	97
21) 3&4-Methylphenol	3.93	108	12728	1.46	ppb	98
22) n-Nitroso-di-n-propylamine	3.92	70	14274	2.17	ppb	97
23) Hexachloroethane	3.94	201	8728	2.38	ppb	95
26) Nitrobenzene	4.08	123	9201	1.82	ppb	99
27) Quinoline	5.53	129	33577	1.72	ppb	99
28) Isophorone	4.40	82	40122	2.10	ppb	97
29) 2-Nitrophenol	4.51	139	7594	1.48	ppb	# 72

(#) = qualifier out of range (m) = manual integration

F92483.D MF4329.M

Wed Oct 20 13:04:49 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:05:25 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 11:04:46 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

8.6.34

8

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	13902	1.45	ppb	97
31) Benzoic acid	4.77	105	6055	0.87	ppb	96
32) bis(2-Chloroethoxy)methane	4.77	93	22712	1.81	ppb	99
33) 2,4-Dichlorophenol	4.85	162	12712	1.37	ppb	97
34) 2,6-Dichlorophenol	5.18	162	14119	1.59	ppb	88
35) 1,3,5-Trichlorobenzene	4.52	180	21319	2.23	ppb	99
36) 1,2,4-Trichlorobenzene	4.95	180	21508	2.22	ppb	95
37) 1,2,3-Trichlorobenzene	5.30	180	21038	2.20	ppb	99
38) Naphthalene	5.02	128	63233	2.23	ppb	97
39) 4-Chloroaniline	5.18	127	25076	2.17	ppb	97
40) 2,3-Dichloroaniline	6.55	161	21561	2.11	ppb	95
41) Caprolactam	5.62	55	11020	1.92	ppb	95
42) Hexachlorobutadiene	5.33	225	12861	2.35	ppb	92
43) 4-Chloro-3-methylphenol	5.97	107	14836	1.63	ppb	87
44) 2-Methylnaphthalene	6.05	142	44668	2.20	ppb	98
45) 1-Methylnaphthalene	6.21	142	43039	2.26	ppb	98
46) Dimethylnaphthalene	7.02	156	37624	2.23	ppb	98
48) Hexachlorocyclopentadiene	6.42	237	13709	2.91	ppb	99
49) 2,4,6-Trichlorophenol	6.56	196	12223	1.91	ppb	95
50) 2,4,5-Trichlorophenol	6.61	196	12920	1.77	ppb	86
52) 2-Chloronaphthalene	6.78	162	44634	2.36	ppb	97
53) Biphenyl	6.80	154	54085	2.46	ppb	98
54) 2-Nitroaniline	7.05	65	10796	1.92	ppb	87
55) Dimethylphthalate	7.43	163	51338	2.46	ppb	100
56) Acenaphthylene	7.41	152	68955	2.26	ppb	100
57) 2,6-Dinitrotoluene	7.50	165	7736	1.62	ppb	99
58) 3-Nitroaniline	7.72	138	8926	1.77	ppb #	42
59) Acenaphthene	7.71	153	44880	2.56	ppb	93
60) 2,4-Dinitrophenol	7.86	184	2414	0.96	ppb	97
62) Dibenzofuran	7.96	168	65850	2.45	ppb	98
63) 2,4-Dinitrotoluene	8.10	165	9415	1.45	ppb	94
64) 2,3,4,6-Tetrachlorophenol	8.26	232	10925	1.76	ppb #	10
65) Diethylphthalate	8.56	149	49841	2.61	ppb	98
66) Fluorene	8.50	166	51392	2.37	ppb	98
67) 4-Chlorophenyl-phenylether	8.57	204	26106	2.56	ppb	94
68) 4-Nitroaniline	8.67	138	9998	1.76	ppb	88
70) 4,6-Dinitro-2-methylphenol	8.71	198	3201	0.78	ppb #	91
71) n-Nitrosodiphenylamine	8.77	169	35350	2.26	ppb	94
72) 1,2-Diphenylhydrazine	8.80	77	52327	2.44	ppb	98
74) 4-Bromophenyl-phenylether	9.31	248	14679	2.12	ppb	96
75) Hexachlorobenzene	9.48	284	16301	2.39	ppb	94
76) Pentachlorophenol	9.79	266	13717	3.10	ppb	95
77) Phenanthrene	9.97	178	77214	2.42	ppb	98
78) Anthracene	10.04	178	85479	2.79	ppb	98
79) Carbazole	10.37	167	70933	2.28	ppb	96
80) Di-n-butylphthalate	11.15	149	75830	2.01	ppb	99
81) Fluoranthene	11.77	202	85293	2.30	ppb	99
82) Octadecane	10.03	57	30648	2.27	ppb	97
84) Pyrene	12.05	202	90137	2.28	ppb	98

(#) = qualifier out of range (m) = manual integration

F92483.D MF4329.M

Wed Oct 20 13:04:49 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D Vial: 5
Acq On : 20 Oct 2010 10:41 am Operator: ninap
Sample : ic4329-2 Inst : MSF
Misc : op46122,ef4329 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 11:05:25 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Wed Oct 20 11:04:46 2010
Response via : Initial Calibration
DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) Butylbenzylphthalate	13.03	149	31209	1.85	ppb	94
87) Butyl stearate	13.12	56	28960	2.69	ppb	98
88) Benzo[a]anthracene	13.48	228	77279	2.08	ppb	99
89) 3,3'-Dichlorobenzidine	13.53	252	24731	1.94	ppb	93
90) Chrysene	13.51	228	86287	2.69	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.72	149	41966	1.82	ppb	99
93) Di-n-octylphthalate	14.31	149	58201	1.46	ppb	99
94) Benzo[b]fluoranthene	14.53	252	53817m	1.34	ppb	
95) Benzo[k]fluoranthene	14.55	252	97398m	3.41	ppb	
96) Benzo[a]pyrene	14.81	252	56830	1.66	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.82	276	65198	1.79	ppb	94
98) Dibenz(a,h)acridine	15.62	279	42490	1.52	ppb	98
99) Dibenz[a,h]anthracene	15.84	278	54166	1.81	ppb	96
100) 7,12-Dimethylbenz(a)anthra	14.56	256	26185	1.93	ppb	93
101) Benzo[g,h,i]perylene	16.08	276	60927	1.91	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F92483.D MF4329.M Wed Oct 20 13:04:49 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:06 2010

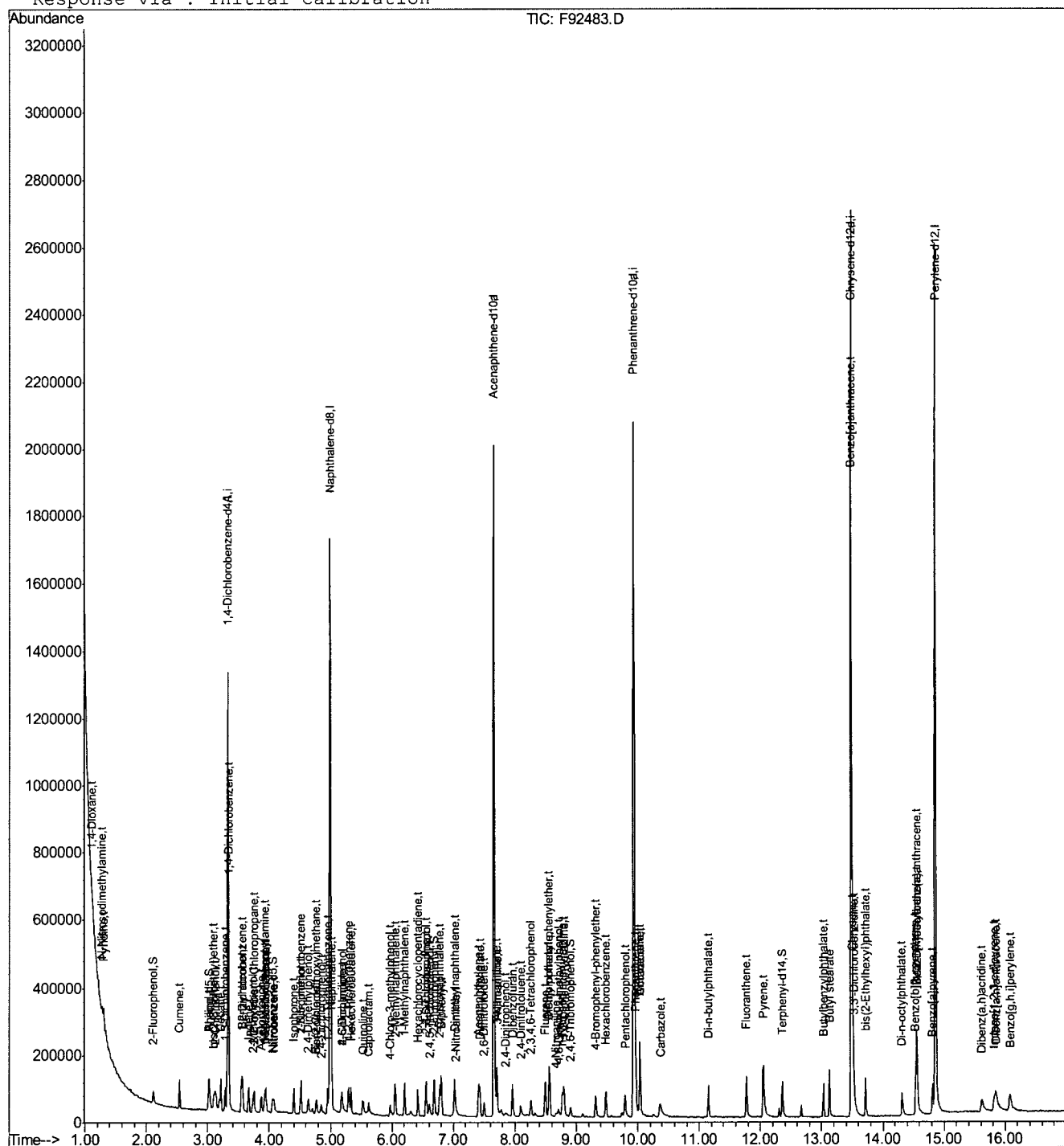
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92483.D **Analyst approved:** 10/20/10 13:04 Nina Pandya
Injection Time: 10/20/10 10:41 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.53	Overlapping peak
Benzo(k)fluoranthene	207-08-9		14.55	Overlapping peak

8.6.34.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:05 2010

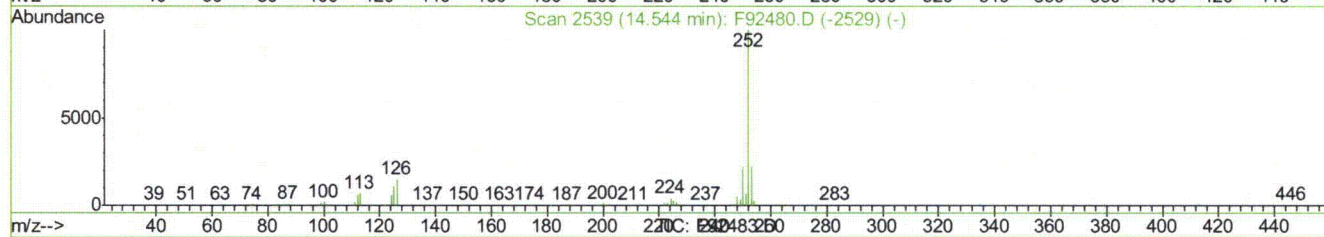
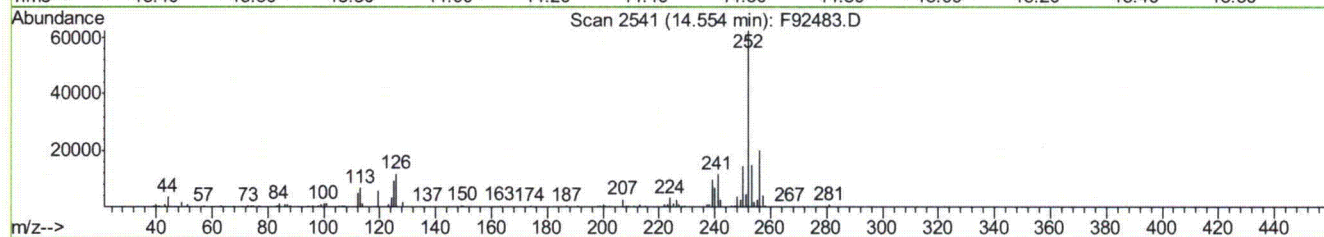
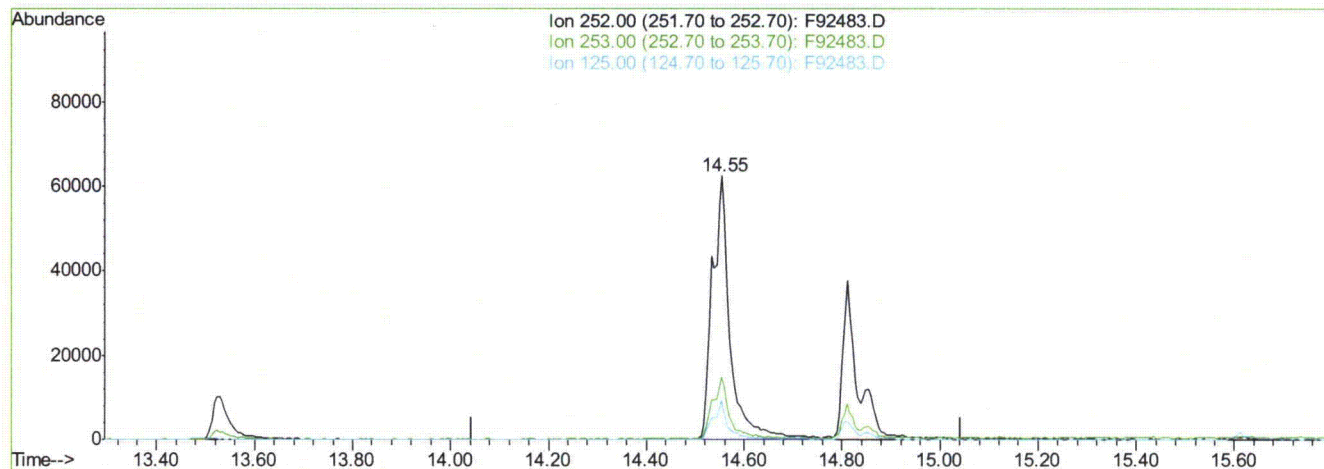
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 11:04:46 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.55min 3.96ppb

response 159159

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	23.58
125.00	9.60	14.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:06 2010

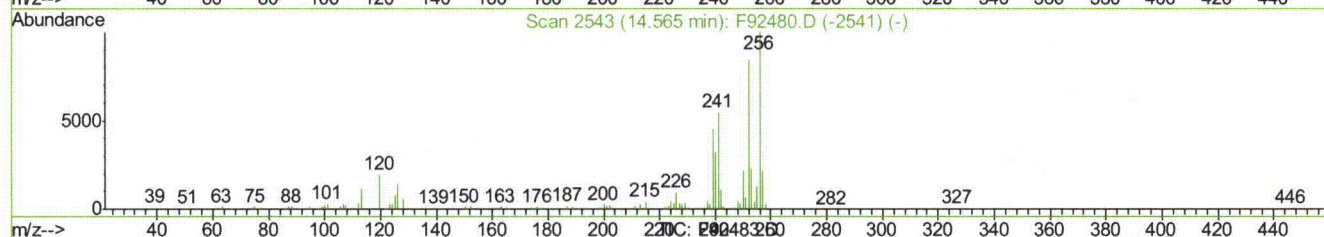
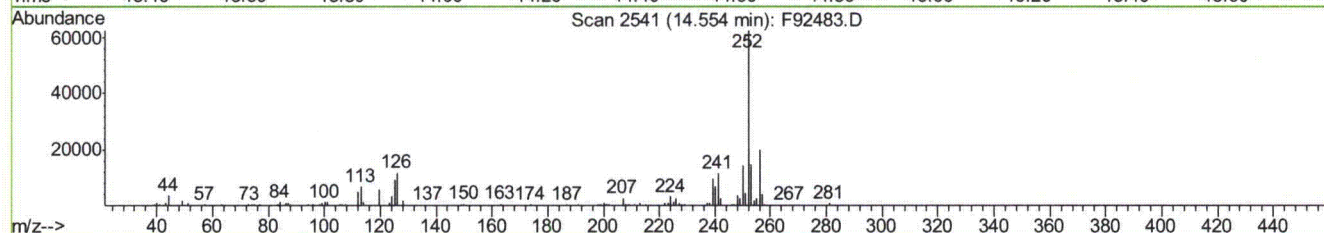
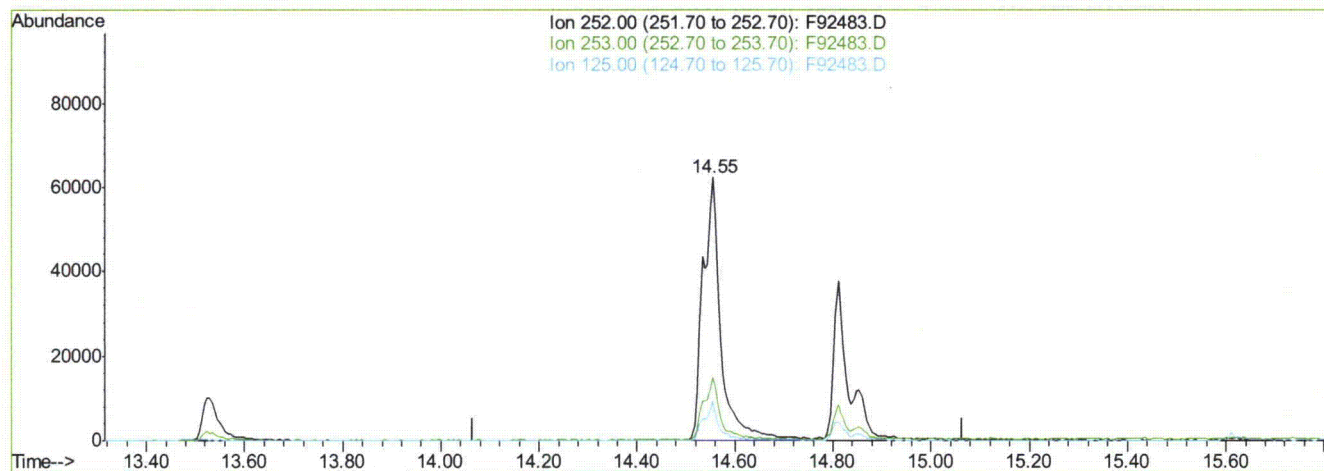
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 11:04:46 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 5.56ppb

response 159159

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	23.58
125.00	11.30	14.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:06 2010

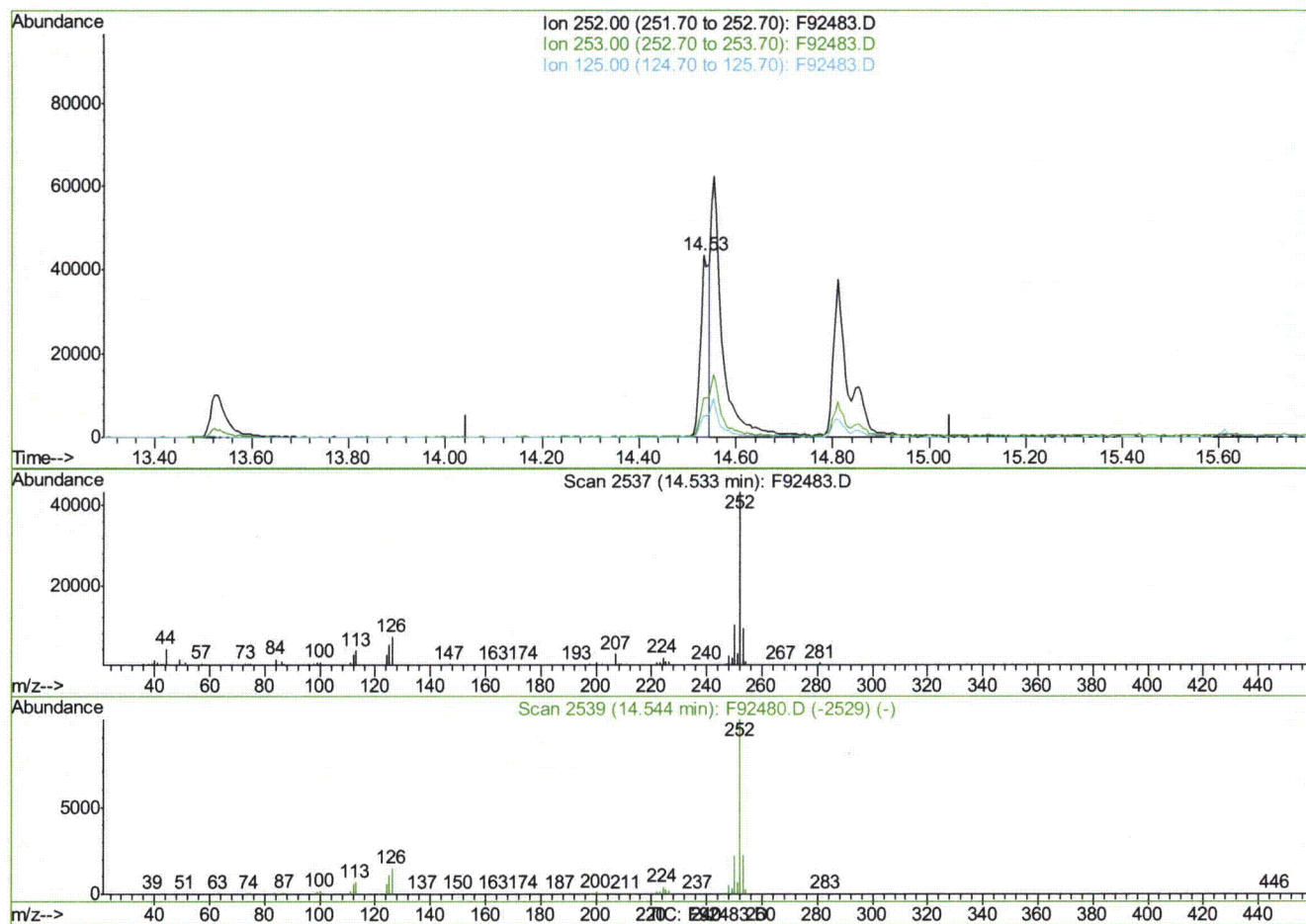
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.53min 1.34ppb m

response 53817

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.50
125.00	9.60	11.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92483.D

Vial: 5

Acq On : 20 Oct 2010 10:41 am

Operator: ninap

Sample : ic4329-2

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 11:06 2010

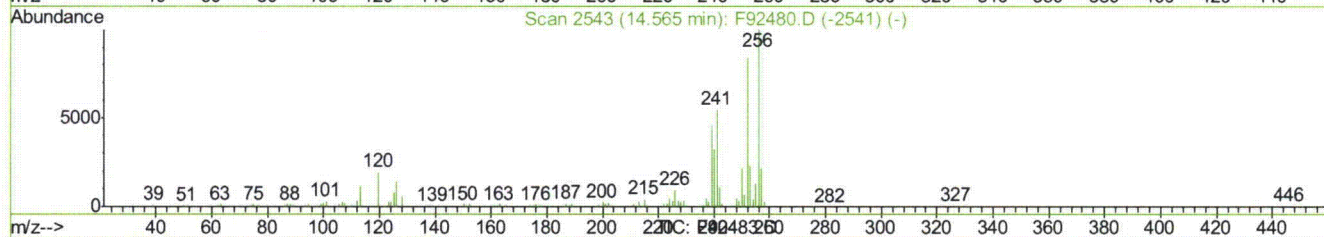
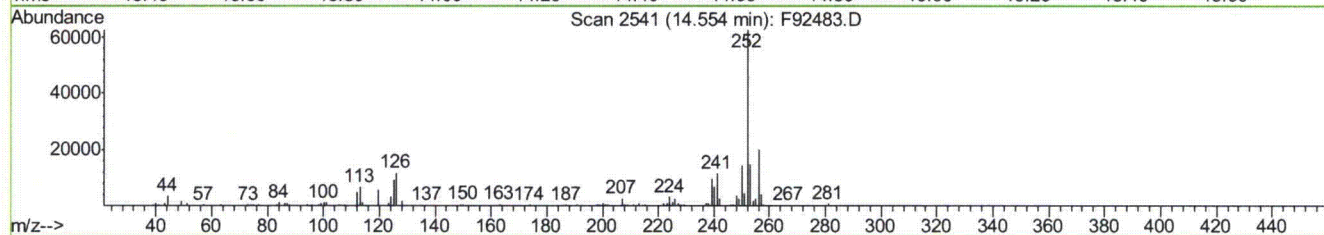
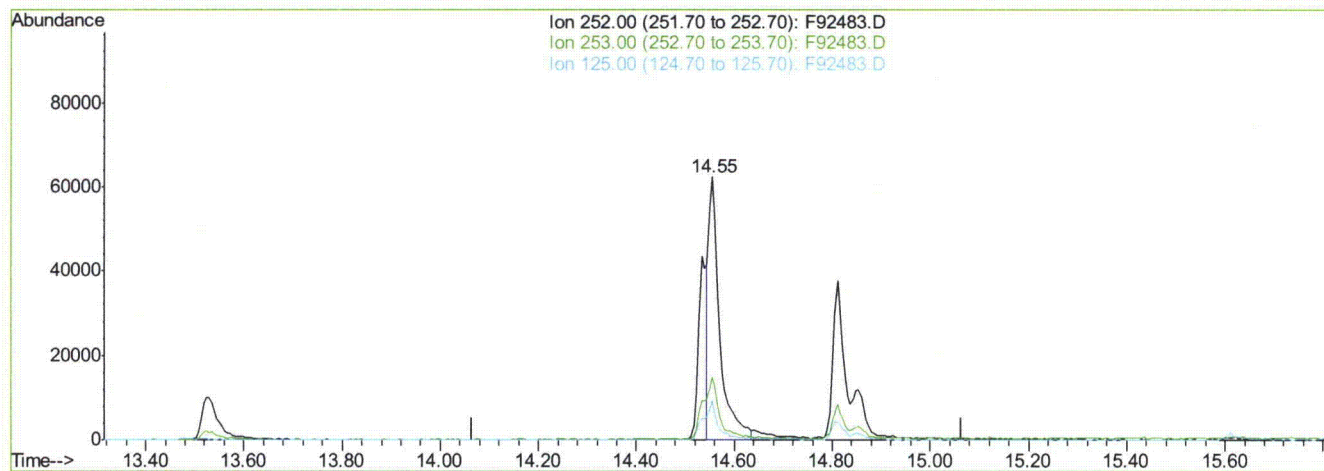
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 3.41ppb m

response 97398

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	23.96
125.00	11.30	14.75
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92484.D

Vial: 6

Acq On : 20 Oct 2010 11:06 am

Operator: ninap

Sample : ic4329-5

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:20:20 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	381201	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	1355225	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	843718	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	1446165	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	1638216	40.00	ppb	0.00
92) Perylene-d12	14.86	264	1396705	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	381201	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	843718	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	1446165	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	1638216	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	61182	4.83	ppb	0.00
Spiked Amount	50.000		Recovery	=	9.66%	
8) Phenol-d5	3.01	99	78387	4.89	ppb	0.00
Spiked Amount	50.000		Recovery	=	9.78%	
25) Nitrobenzene-d5	4.05	82	68611	5.17	ppb	0.00
Spiked Amount	50.000		Recovery	=	10.34%	
51) 2-Fluorobiphenyl	6.69	172	158642	5.99	ppb	-0.01
Spiked Amount	50.000		Recovery	=	11.98%	
73) 2,4,6-Tribromophenol	8.91	330	18289	5.30	ppb	-0.01
Spiked Amount	50.000		Recovery	=	10.60%	
85) Terphenyl-d14	12.35	244	168018	5.51	ppb	0.00
Spiked Amount	50.000		Recovery	=	11.02%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	36202	5.86	ppb	89
3) Pyridine	1.29	79	70470	5.16	ppb	97
4) N-Nitrosodimethylamine	1.27	74	44845	5.31	ppb	96
6) Indene	3.67	116	95676	5.44	ppb	98
7) Cumene	2.54	105	130700	5.50	ppb	100
9) Phenol	3.03	94	83307	4.94	ppb	74
10) Aniline	3.02	93	104816	6.57	ppb	90
11) bis(2-Chloroethyl)ether	3.10	93	73686	5.99	ppb	98
12) 2-Chlorophenol	3.13	128	63677	5.23	ppb	97
13) Decane	3.21	43	78706	5.90	ppb	97
14) 1,3-Dichlorobenzene	3.29	146	79566	5.60	ppb	98
15) 1,4-Dichlorobenzene	3.35	146	77146	5.66	ppb	99
16) Benzyl alcohol	3.55	108	41405	5.12	ppb	98
17) 1,2-Dichlorobenzene	3.57	146	74667	6.12	ppb	98
18) Acetophenone	3.87	105	85587	5.17	ppb	98
19) 2-Methylphenol	3.73	108	53793	4.85	ppb	96
20) 2,2'-oxybis(1-Chloropropan	3.75	121	21554	5.92	ppb	89
21) 3&4-Methylphenol	3.92	108	60688	5.60	ppb	97
22) n-Nitroso-di-n-propylamine	3.92	70	46321	5.66	ppb	97
23) Hexachloroethane	3.95	201	28040	6.12	ppb	98
26) Nitrobenzene	4.08	123	33365	5.54	ppb	98
27) Quinoline	5.53	129	118911	5.10	ppb	99
28) Isophorone	4.40	82	129785	5.71	ppb	96
29) 2-Nitrophenol	4.52	139	30082	4.94	ppb	83

(#)=qualifier out of range (m)=manual integration

F92484.D MF4329.M

Wed Oct 20 13:05:01 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92484.D

Vial: 6

Acq On : 20 Oct 2010 11:06 am

Operator: ninap

Sample : ic4329-5

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:20:20 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	49899	4.38	ppb	99
31) Benzoic acid	4.79	105	29096	3.52	ppb	89
32) bis(2-Chloroethoxy)methane	4.77	93	81879	5.49	ppb	99
33) 2,4-Dichlorophenol	4.85	162	54499	4.92	ppb	96
34) 2,6-Dichlorophenol	5.18	162	54687	5.17	ppb	98
35) 1,3,5-Trichlorobenzene	4.52	180	69288	6.10	ppb	98
36) 1,2,4-Trichlorobenzene	4.95	180	67494	5.84	ppb	99
37) 1,2,3-Trichlorobenzene	5.30	180	65492	5.75	ppb	100
38) Naphthalene	5.02	128	194701	5.75	ppb	100
39) 4-Chloroaniline	5.18	127	85516	6.21	ppb	99
40) 2,3-Dichloroaniline	6.55	161	69678	5.72	ppb	99
41) Caprolactam	5.63	55	34507	5.04	ppb	96
42) Hexachlorobutadiene	5.33	225	38081	5.85	ppb	97
43) 4-Chloro-3-methylphenol	5.97	107	51928	4.80	ppb	90
44) 2-Methylnaphthalene	6.05	142	142861	5.91	ppb	100
45) 1-Methylnaphthalene	6.21	142	131313	5.78	ppb	100
46) Dimethylnaphthalene	7.02	156	118713	5.91	ppb	98
48) Hexachlorocyclopentadiene	6.42	237	47186	8.43	ppb	98
49) 2,4,6-Trichlorophenol	6.56	196	41048	5.39	ppb	98
50) 2,4,5-Trichlorophenol	6.61	196	48349	5.57	ppb	100
52) 2-Chloronaphthalene	6.78	162	137808	6.12	ppb	99
53) Biphenyl	6.80	154	165934	6.34	ppb	98
54) 2-Nitroaniline	7.04	65	36604	5.47	ppb	100
55) Dimethylphthalate	7.43	163	152668	6.15	ppb	100
56) Acenaphthylene	7.41	152	209650	5.76	ppb	99
57) 2,6-Dinitrotoluene	7.50	165	27553	4.85	ppb	99
58) 3-Nitroaniline	7.69	138	32944	5.49	ppb	91
59) Acenaphthene	7.71	153	129618	6.20	ppb	99
60) 2,4-Dinitrophenol	7.85	184	13498	4.49	ppb	96
61) 4-Nitrophenol	8.08	109	11897	3.76	ppb	# 87
62) Dibenzofuran	7.96	168	197918	6.20	ppb	98
63) 2,4-Dinitrotoluene	8.10	165	39133	5.05	ppb	100
64) 2,3,4,6-Tetrachlorophenol	8.26	232	38681	5.24	ppb	# 18
65) Diethylphthalate	8.56	149	146934	6.46	ppb	99
66) Fluorene	8.50	166	153610	5.96	ppb	99
67) 4-Chlorophenyl-phenylether	8.57	204	76308	6.29	ppb	98
68) 4-Nitroaniline	8.66	138	35756	5.27	ppb	97
70) 4,6-Dinitro-2-methylphenol	8.71	198	14673	3.09	ppb	100
71) n-Nitrosodiphenylamine	8.77	169	108392	5.98	ppb	99
72) 1,2-Diphenylhydrazine	8.80	77	150571	6.07	ppb	99
74) 4-Bromophenyl-phenylether	9.31	248	45665	5.71	ppb	98
75) Hexachlorobenzene	9.48	284	48575	6.16	ppb	97
76) Pentachlorophenol	9.79	266	54271	10.58	ppb	96
77) Phenanthrene	9.97	178	218328	5.92	ppb	98
78) Anthracene	10.04	178	237475	6.71	ppb	100
79) Carbazole	10.36	167	205086	5.69	ppb	99
80) Di-n-butylphthalate	11.15	149	238008	5.45	ppb	99
81) Fluoranthene	11.77	202	247913	5.77	ppb	98
82) Octadecane	10.03	57	93522	5.99	ppb	96

(#) = qualifier out of range (m) = manual integration

F92484.D MF4329.M

Wed Oct 20 13:05:01 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92484.D Vial: 6
 Acq On : 20 Oct 2010 11:06 am Operator: ninap
 Sample : ic4329-5 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 12:20:20 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 12:20:17 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.05	202	267553	5.68	ppb	99
86) Butylbenzylphthalate	13.03	149	99174	4.92	ppb	99
87) Butyl stearate	13.12	56	86630	6.75	ppb	99
88) Benzo[a]anthracene	13.48	228	232259	5.25	ppb	99
89) 3,3'-Dichlorobenzidine	13.52	252	81474	5.35	ppb	98
90) Chrysene	13.51	228	243481	6.37	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.72	149	141485	5.13	ppb	99
93) Di-n-octylphthalate	14.31	149	220475	4.58	ppb	99
94) Benzo[b]fluoranthene	14.53	252	200172m	4.13	ppb	
95) Benzo[k]fluoranthene	14.55	252	280390	8.14	ppb	95
96) Benzo[a]pyrene	14.81	252	230923	5.62	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.82	276	228804	5.21	ppb	96
98) Dibenz(a,h)acridine	15.61	279	150405	4.45	ppb	98
99) Dibenz[a,h]anthracene	15.85	278	184329	5.10	ppb	97
100) 7,12-Dimethylbenz(a)anthra	14.56	256	83221	5.08	ppb	98
101) Benzo[g,h,i]perylene	16.08	276	198117	5.14	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92484.D MF4329.M Wed Oct 20 13:05:01 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92484.D

Vial: 6

Acq On : 20 Oct 2010 11:06 am

Operator: ninap

Sample : ic4329-5

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:21 2010

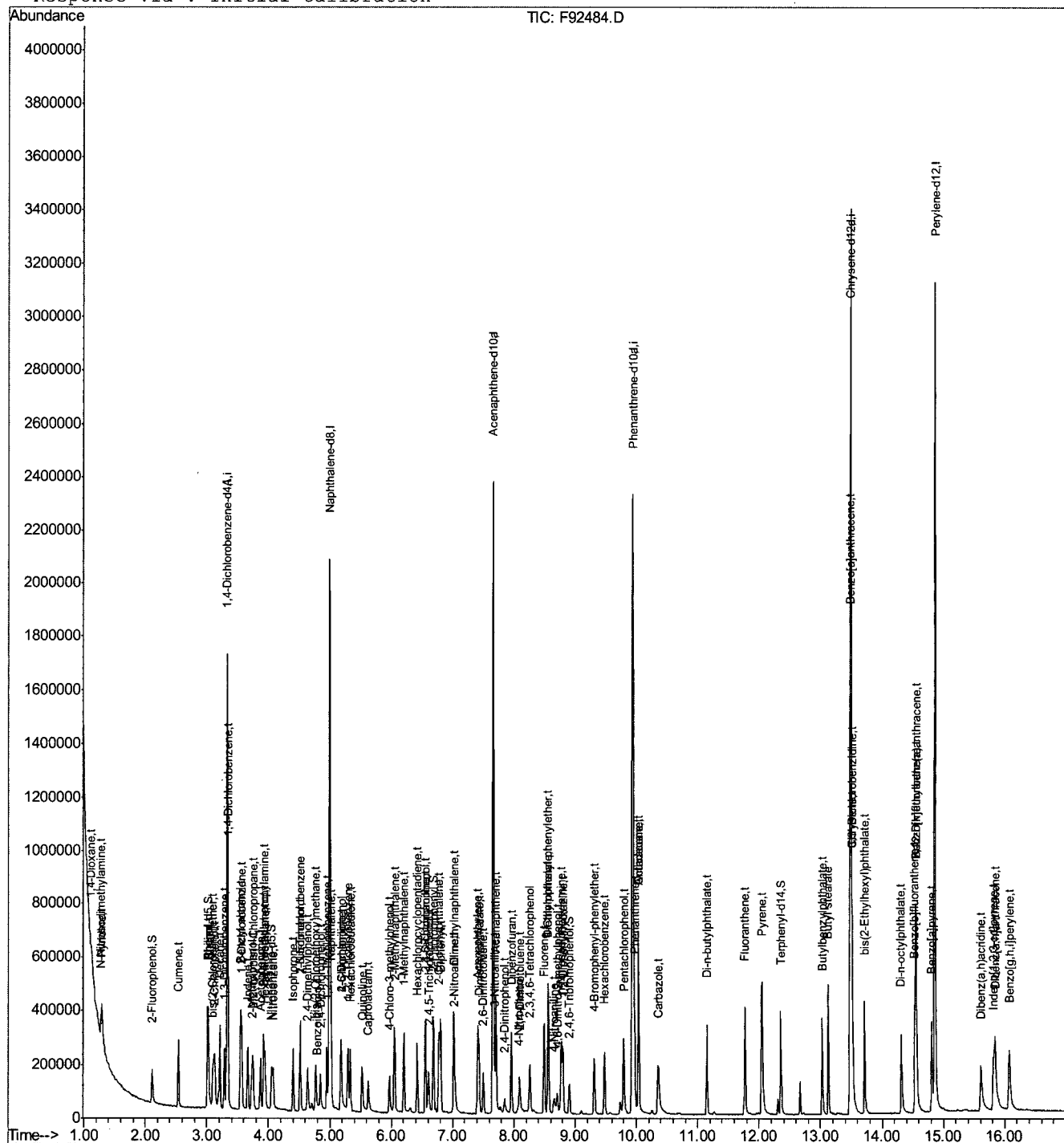
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



F92484.D MF4329.M

Wed Oct 20 13:05:02 2010

GCMS3A

Page 4

Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92484.D **Analyst approved:** 10/20/10 13:04 Nina Pandya
Injection Time: 10/20/10 11:06 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.53	Overlapping peak

8.6.35.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92484.D

Vial: 6

Acq On : 20 Oct 2010 11:06 am

Operator: ninap

Sample : ic4329-5

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:20 2010

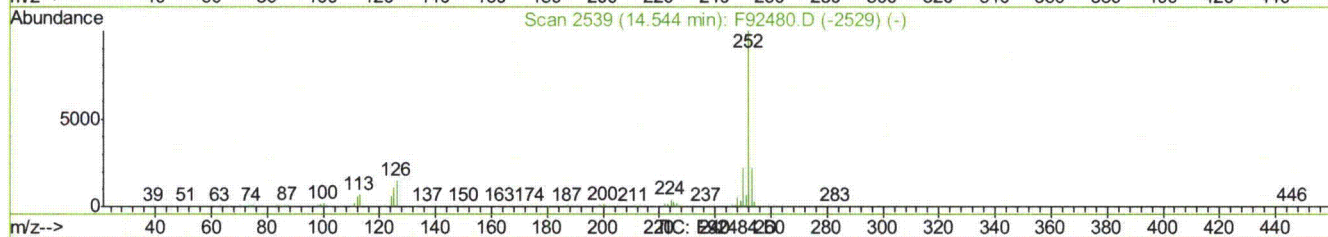
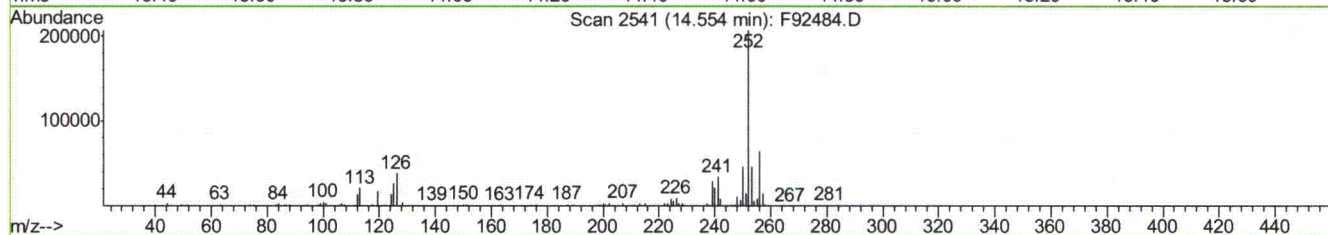
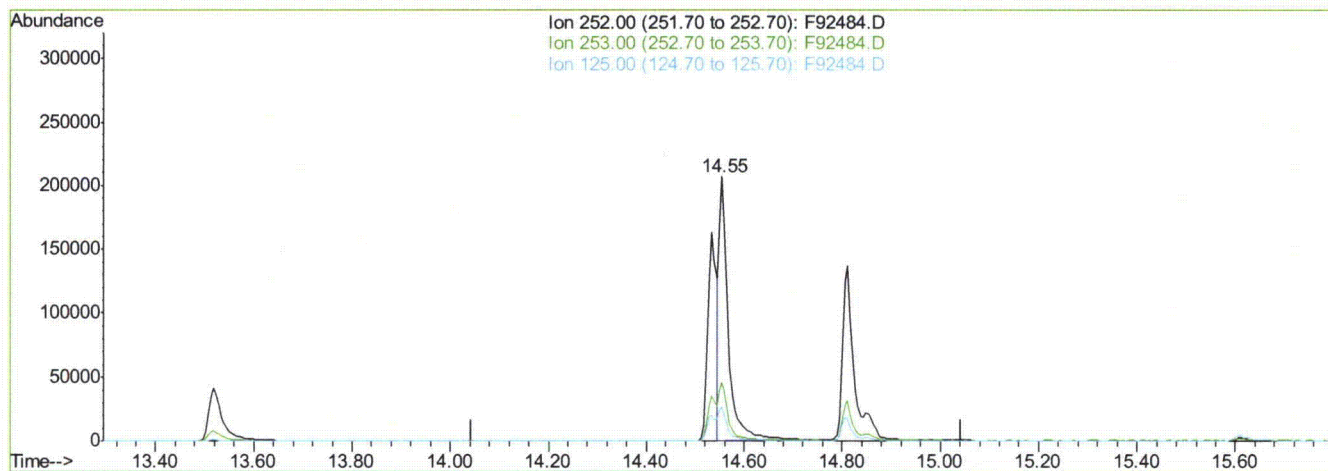
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.55min 5.79ppb

response 280390

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.15
125.00	9.60	12.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92484.D

Vial: 6

Acq On : 20 Oct 2010 11:06 am

Operator: ninap

Sample : ic4329-5

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:21 2010

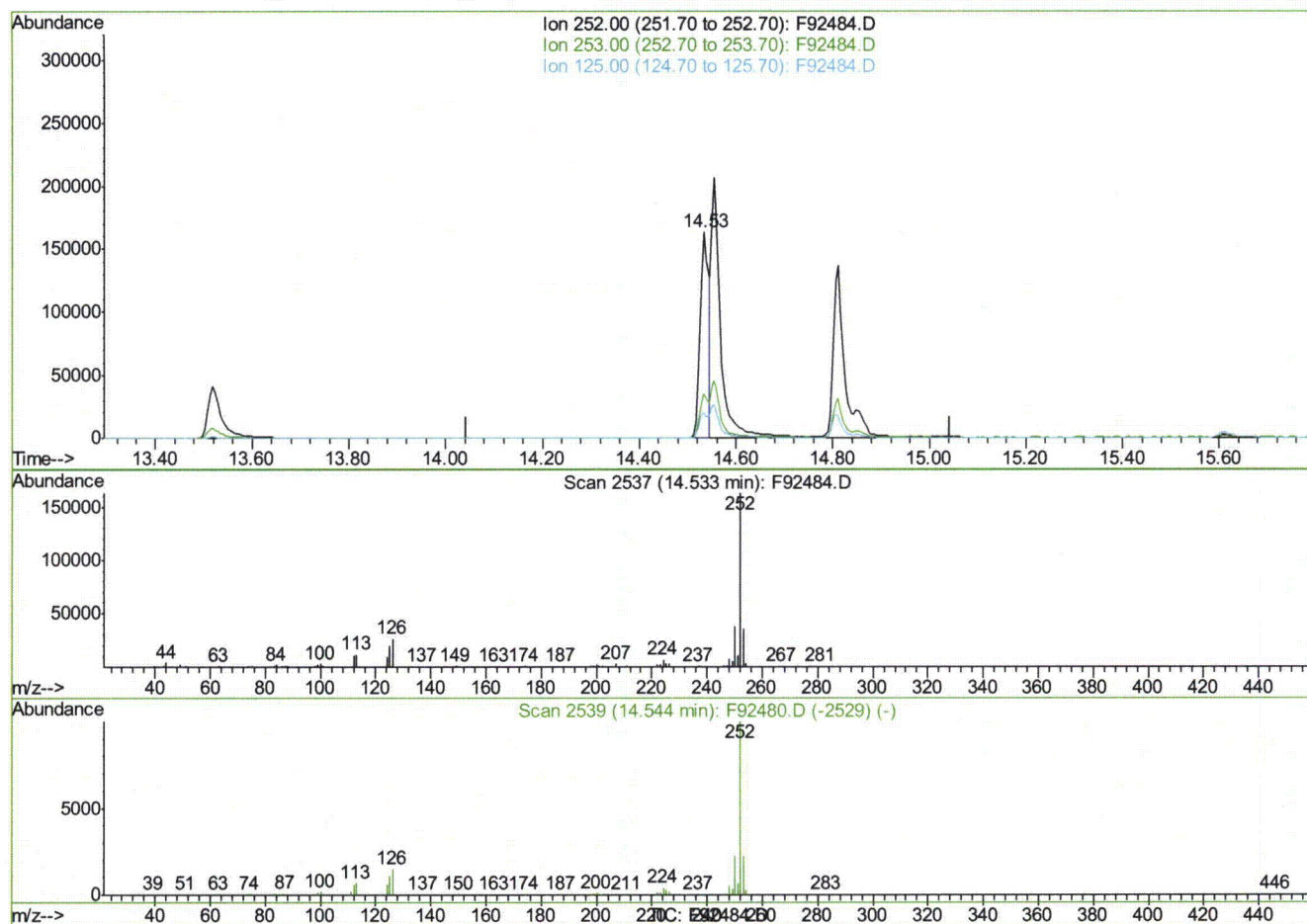
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.53min 4.13ppb m

response 200172

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.58
125.00	9.60	12.28
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D

Vial: 7

Acq On : 20 Oct 2010 11:30 am

Operator: ninap

Sample : ic4329-10

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:21:54 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	304956	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	1113682	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	704171	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	1172544	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	1328506	40.00	ppb	0.00
92) Perylene-d12	14.86	264	1106689	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	304956	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	704171	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	1172544	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	1328506	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	102420	10.10	ppb	0.00
Spiked Amount	50.000		Recovery	=	20.20%	
8) Phenol-d5	3.01	99	135168	10.53	ppb	0.00
Spiked Amount	50.000		Recovery	=	21.06%	
25) Nitrobenzene-d5	4.05	82	118281	10.84	ppb	0.00
Spiked Amount	50.000		Recovery	=	21.68%	
51) 2-Fluorobiphenyl	6.69	172	268488	12.15	ppb	0.00
Spiked Amount	50.000		Recovery	=	24.30%	
73) 2,4,6-Tribromophenol	8.91	330	31455	11.25	ppb	-0.01
Spiked Amount	50.000		Recovery	=	22.50%	
85) Terphenyl-d14	12.35	244	277849	11.25	ppb	0.00
Spiked Amount	50.000		Recovery	=	22.50%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	53917	10.92	ppb	94
3) Pyridine	1.29	79	120951	11.07	ppb	98
4) N-Nitrosodimethylamine	1.27	74	74188	10.98	ppb	97
6) Indene	3.67	116	156018	11.08	ppb	98
7) Cumene	2.54	105	218507	11.50	ppb	98
9) Phenol	3.03	94	143129	10.61	ppb	82
10) Aniline	3.02	93	164117	12.85	ppb	93
11) bis(2-Chloroethyl)ether	3.10	93	117066	11.90	ppb	97
12) 2-Chlorophenol	3.13	128	109779	11.27	ppb	97
13) Decane	3.21	43	122840	11.52	ppb	99
14) 1,3-Dichlorobenzene	3.29	146	128111	11.26	ppb	98
15) 1,4-Dichlorobenzene	3.35	146	126379	11.58	ppb	98
16) Benzyl alcohol	3.55	108	71773	11.09	ppb	96
17) 1,2-Dichlorobenzene	3.57	146	123955	12.70	ppb	98
18) Acetophenone	3.87	105	144411	10.90	ppb	97
19) 2-Methylphenol	3.73	108	93730	10.57	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.75	121	34006	11.68	ppb	97
21) 3&4-Methylphenol	3.92	108	104473	12.05	ppb	95
22) n-Nitroso-di-n-propylamine	3.92	70	76335	11.65	ppb	100
23) Hexachloroethane	3.95	201	45412	12.39	ppb	99
26) Nitrobenzene	4.08	123	55430	11.19	ppb	98
27) Quinoline	5.53	129	203688	10.63	ppb	98
28) Isophorone	4.40	82	213420	11.42	ppb	99
29) 2-Nitrophenol	4.51	139	53646	10.72	ppb	95

(#)= qualifier out of range (m)= manual integration

F92485.D MF4329.M

Wed Oct 20 13:05:13 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D

Vial: 7

Acq On : 20 Oct 2010 11:30 am

Operator: ninap

Sample : ic4329-10

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:21:54 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	86032	9.19	ppb	96
31) Benzoic acid	4.79	105	65954	9.72	ppb	98
32) bis(2-Chloroethoxy)methane	4.77	93	134566	10.97	ppb	99
33) 2,4-Dichlorophenol	4.85	162	94755	10.41	ppb	97
34) 2,6-Dichlorophenol	5.18	162	96640	11.11	ppb	96
35) 1,3,5-Trichlorobenzene	4.52	180	112265	12.02	ppb	99
36) 1,2,4-Trichlorobenzene	4.95	180	110715	11.65	ppb	95
37) 1,2,3-Trichlorobenzene	5.30	180	106419	11.36	ppb	100
38) Naphthalene	5.02	128	316578	11.39	ppb	99
39) 4-Chloroaniline	5.18	127	142785	12.61	ppb	99
40) 2,3-Dichloroaniline	6.55	161	114483	11.44	ppb	99
41) Caprolactam	5.64	55	54623	9.70	ppb	97
42) Hexachlorobutadiene	5.33	225	63424	11.86	ppb	99
43) 4-Chloro-3-methylphenol	5.97	107	90127	10.14	ppb	85
44) 2-Methylnaphthalene	6.05	142	236803	11.92	ppb	97
45) 1-Methylnaphthalene	6.21	142	218007	11.68	ppb	99
46) Dimethylnaphthalene	7.02	156	197599	11.97	ppb	99
48) Hexachlorocyclopentadiene	6.42	237	86477	18.51	ppb	100
49) 2,4,6-Trichlorophenol	6.56	196	70830	11.14	ppb	96
50) 2,4,5-Trichlorophenol	6.61	196	81431	11.24	ppb	99
52) 2-Chloronaphthalene	6.78	162	226693	12.07	ppb	98
53) Biphenyl	6.80	154	273969	12.54	ppb	100
54) 2-Nitroaniline	7.04	65	62381	11.17	ppb	98
55) Dimethylphthalate	7.43	163	248640	12.01	ppb	100
56) Acenaphthylene	7.41	152	352149	11.59	ppb	99
57) 2,6-Dinitrotoluene	7.50	165	48957	10.32	ppb	99
58) 3-Nitroaniline	7.69	138	56588	11.30	ppb	96
59) Acenaphthene	7.71	153	211856	12.15	ppb	99
60) 2,4-Dinitrophenol	7.85	184	31187	12.43	ppb	94
61) 4-Nitrophenol	8.06	109	22058	8.36	ppb	95
62) Dibenzofuran	7.96	168	322022	12.08	ppb	97
63) 2,4-Dinitrotoluene	8.10	165	69149	10.68	ppb	96
64) 2,3,4,6-Tetrachlorophenol	8.26	232	66306	10.77	ppb	# 16
65) Diethylphthalate	8.56	149	239366	12.61	ppb	99
66) Fluorene	8.50	166	254713	11.83	ppb	100
67) 4-Chlorophenyl-phenylether	8.57	204	125789	12.42	ppb	97
68) 4-Nitroaniline	8.66	138	58844	10.40	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.72	198	30975	8.05	ppb	97
71) n-Nitrosodiphenylamine	8.77	169	177685	12.09	ppb	99
72) 1,2-Diphenylhydrazine	8.80	77	248745	12.37	ppb	99
74) 4-Bromophenyl-phenylether	9.31	248	76381	11.78	ppb	99
75) Hexachlorobenzene	9.48	284	76966	12.04	ppb	98
76) Pentachlorophenol	9.79	266	93910	22.59	ppb	99
77) Phenanthrene	9.97	178	359034	12.00	ppb	99
78) Anthracene	10.04	178	375602	13.08	ppb	100
79) Carbazole	10.36	167	341305	11.69	ppb	99
80) Di-n-butylphthalate	11.15	149	403474	11.40	ppb	99
81) Fluoranthene	11.77	202	411120	11.80	ppb	99
82) Octadecane	10.03	57	156166	12.34	ppb	98

(#)=qualifier out of range (m)=manual integration

F92485.D MF4329.M

Wed Oct 20 13:05:13 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D Vial: 7
 Acq On : 20 Oct 2010 11:30 am Operator: ninap
 Sample : ic4329-10 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 12:21:54 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 12:20:17 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.05	202	434413	11.36	ppb	99
86) Butylbenzylphthalate	13.03	149	164995	10.09	ppb	99
87) Butyl stearate	13.12	56	124384	11.94	ppb	99
88) Benzo[a]anthracene	13.48	228	376699	10.50	ppb	99
89) 3,3'-Dichlorobenzidine	13.51	252	137072	11.09	ppb	97
90) Chrysene	13.51	228	379075	12.22	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.72	149	237753	10.63	ppb	99
93) Di-n-octylphthalate	14.31	149	379948	9.97	ppb	97
94) Benzo[b]fluoranthene	14.53	252	333434m	8.69	ppb	
95) Benzo[k]fluoranthene	14.55	252	426801m	15.64	ppb	
96) Benzo[a]pyrene	14.81	252	366794	11.26	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.82	276	382336	10.99	ppb	98
98) Dibenz(a,h)acridine	15.61	279	268286	10.03	ppb	99
99) Dibenz[a,h]anthracene	15.85	278	314918	11.00	ppb	99
100) 7,12-Dimethylbenz(a)anthra	14.55	256	139978	10.78	ppb	98
101) Benzo[g,h,i]perylene	16.08	276	328822	10.78	ppb	99

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92485.D MF4329.M Wed Oct 20 13:05:13 2010 GCMS3A

Vial: 7

Operator: ninap

Inst :

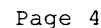
Multiplr: 1.00

Quant Results File: MF4329.RES

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



8.6.36

Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92485.D **Analyst approved:** 10/20/10 13:04 Nina Pandya
Injection Time: 10/20/10 11:30 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R. T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.53	Overlapping peak
Benzo(k)fluoranthene	207-08-9		14.55	Overlapping peak

8.6.36.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D

Vial: 7

Acq On : 20 Oct 2010 11:30 am

Operator: ninap

Sample : ic4329-10

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:21 2010

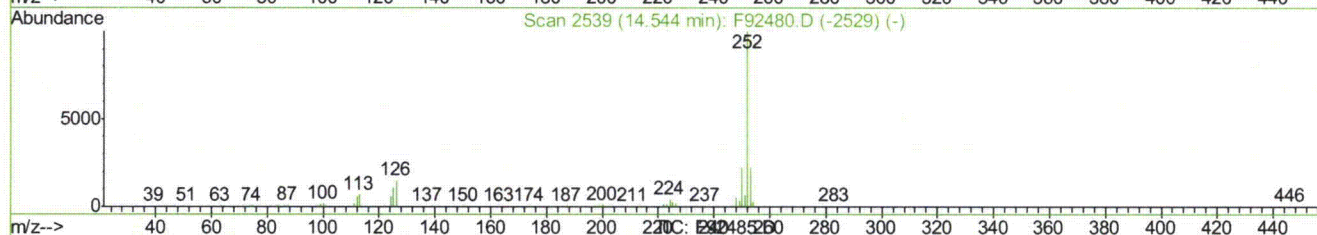
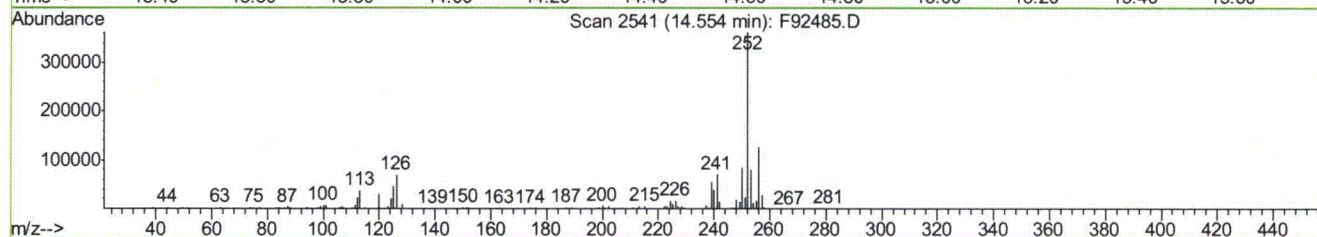
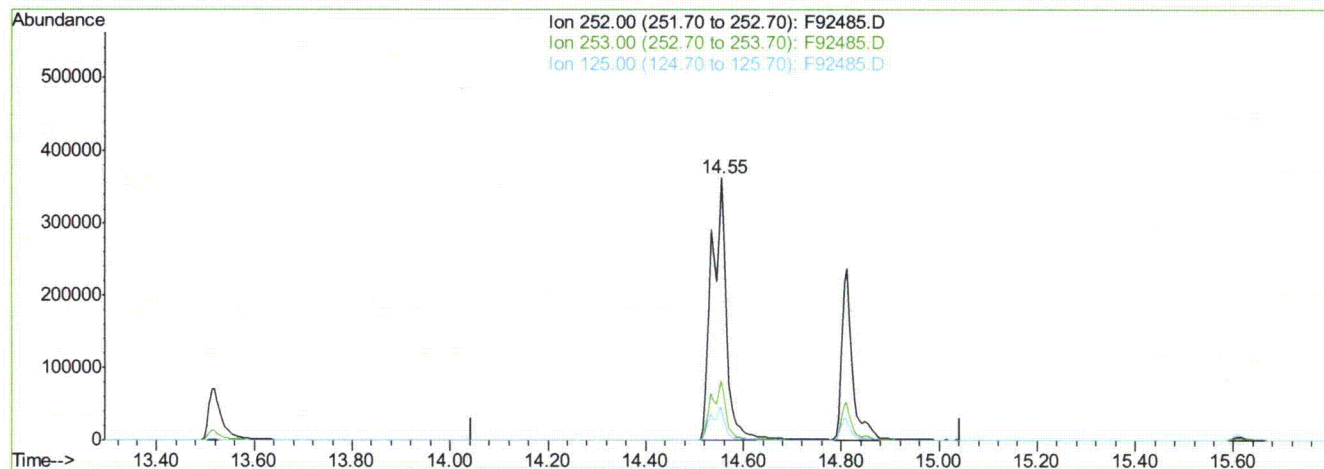
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.55min 20.40ppb

response 782608

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.58
125.00	9.60	12.87
0.00	0.00	0.00

F92485.D MF4329.M

Wed Oct 20 12:22:44 2010

GCMS3A

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D

Vial: 7

Acq On : 20 Oct 2010 11:30 am

Operator: ninap

Sample : ic4329-10

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:22 2010

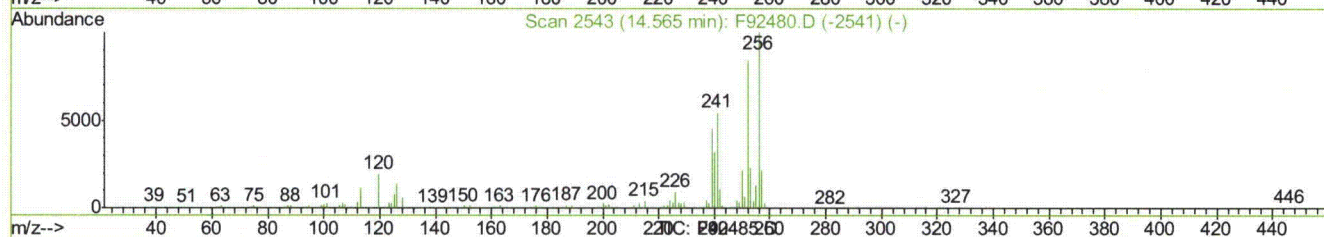
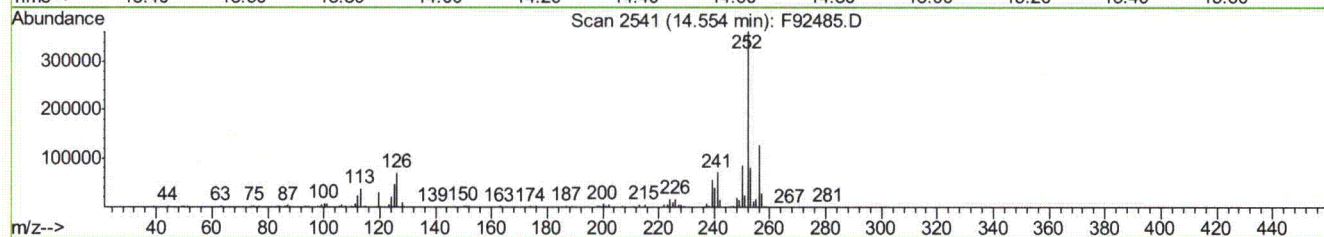
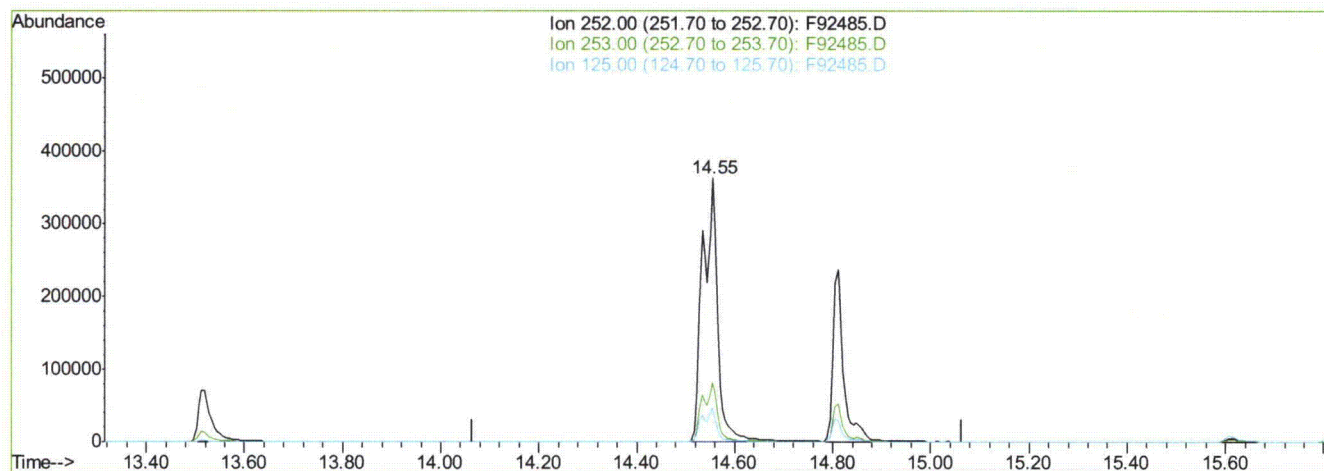
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 28.67ppb

response 782608

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	22.58
125.00	11.30	12.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D

Vial: 7

Acq On : 20 Oct 2010 11:30 am

Operator: ninap

Sample : ic4329-10

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:23 2010

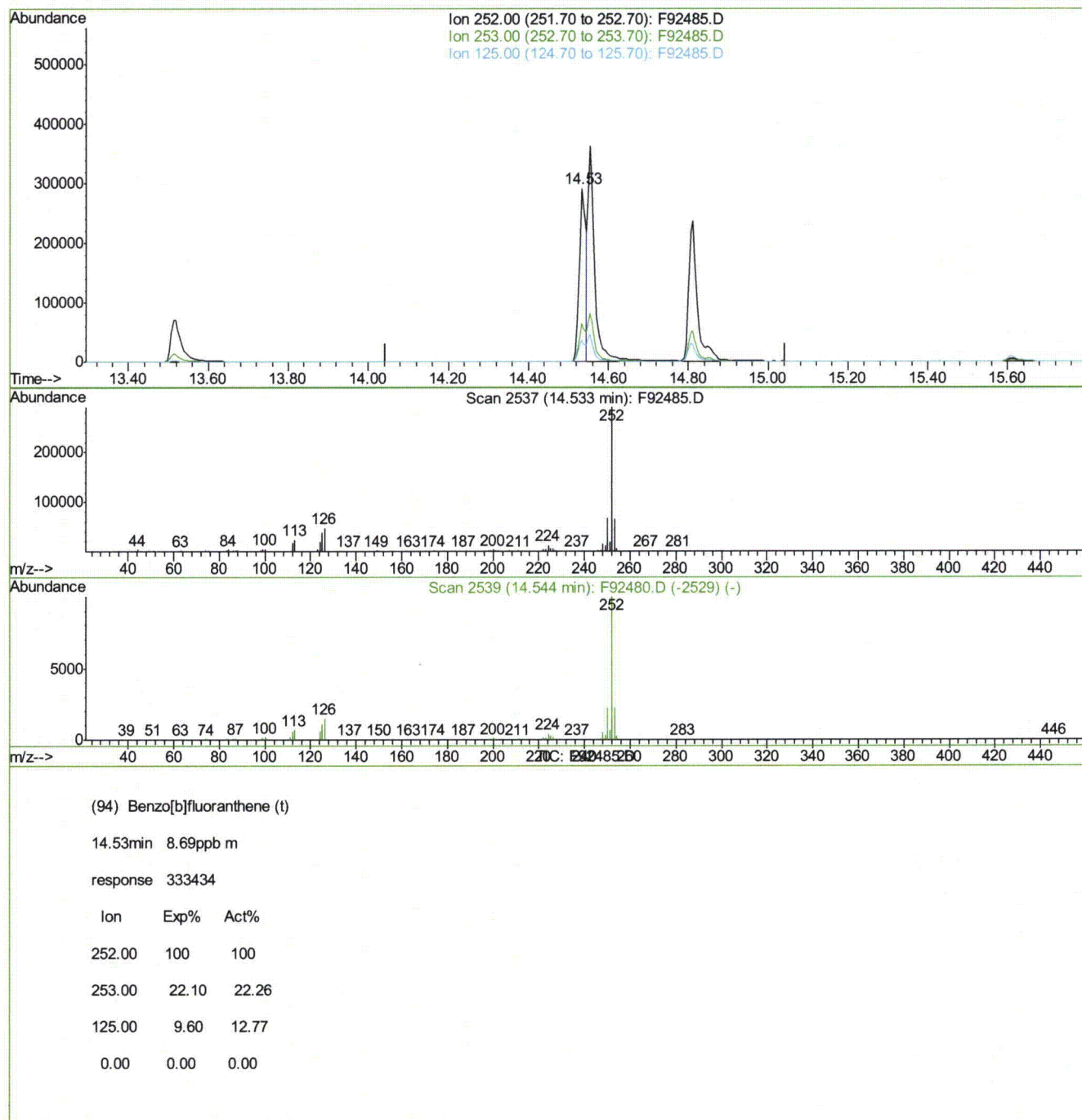
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration

8.6.36.4
8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92485.D

Vial: 7

Acq On : 20 Oct 2010 11:30 am

Operator: ninap

Sample : ic4329-10

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:23 2010

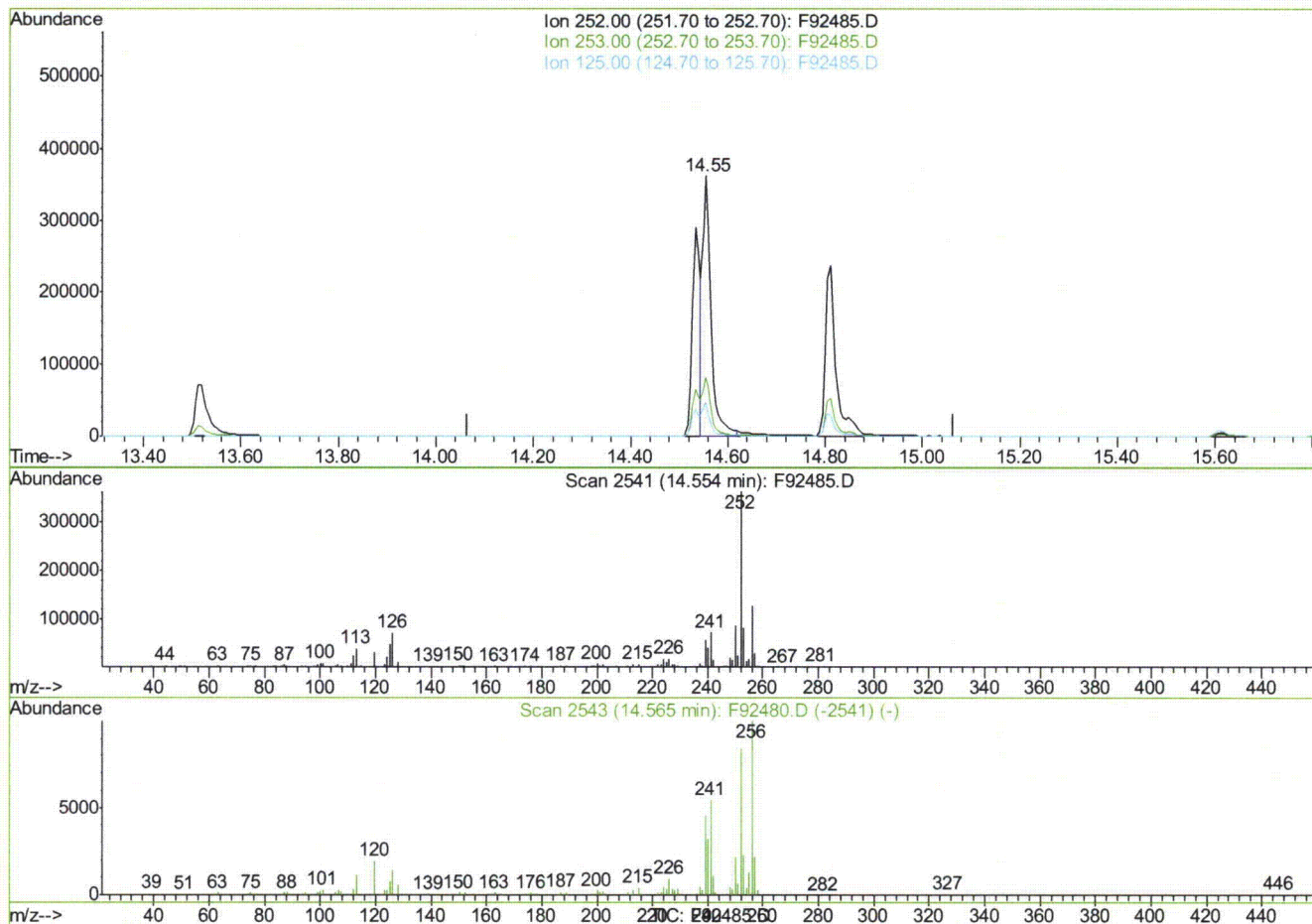
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 15.64ppb m

response 426801

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	22.65
125.00	11.30	12.86
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92486.D

Vial: 8

Acq On : 20 Oct 2010 11:54 am

Operator: ninap

Sample : ic4329-25

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:23:23 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	251435	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	904825	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	564025	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	958650	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	1080816	40.00	ppb	0.00
92) Perylene-d12	14.86	264	887149	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	251435	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	564025	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	958650	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	1080816	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	195979	23.44	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.88%	
8) Phenol-d5	3.02	99	261662	24.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	49.44%	
25) Nitrobenzene-d5	4.06	82	221920	25.04	ppb	0.00
Spiked Amount	50.000		Recovery	=	50.08%	
51) 2-Fluorobiphenyl	6.69	172	478937	27.07	ppb	0.00
Spiked Amount	50.000		Recovery	=	54.14%	
73) 2,4,6-Tribromophenol	8.91	330	59388	25.98	ppb	0.00
Spiked Amount	50.000		Recovery	=	51.96%	
85) Terphenyl-d14	12.35	244	504981	25.12	ppb	0.00
Spiked Amount	50.000		Recovery	=	50.24%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	89992	22.10	ppb	94
3) Pyridine	1.28	79	218578	24.27	ppb	97
4) N-Nitrosodimethylamine	1.27	74	135103	24.25	ppb	98
6) Indene	3.67	116	293673	25.30	ppb	99
7) Cumene	2.54	105	395997	25.27	ppb	100
9) Phenol	3.03	94	280669	25.24	ppb	88
10) Aniline	3.02	93	286754	27.23	ppb	92
11) bis(2-Chloroethyl)ether	3.10	93	208423	25.70	ppb	99
12) 2-Chlorophenol	3.13	128	205376	25.56	ppb	99
13) Decane	3.21	43	229487	26.09	ppb	99
14) 1,3-Dichlorobenzene	3.29	146	240887	25.69	ppb	99
15) 1,4-Dichlorobenzene	3.35	146	234966	26.12	ppb	99
16) Benzyl alcohol	3.55	108	137306	25.72	ppb	99
17) 1,2-Dichlorobenzene	3.57	146	219408	27.26	ppb	99
18) Acetophenone	3.87	105	274773	25.15	ppb	97
19) 2-Methylphenol	3.73	108	181057	24.76	ppb	98
20) 2,2'-oxybis(1-Chloropropan	3.75	121	62860	26.19	ppb	99
21) 3&4-Methylphenol	3.92	108	192252	26.90	ppb	98
22) n-Nitroso-di-n-propylamine	3.93	70	140752	26.06	ppb	99
23) Hexachloroethane	3.95	201	81793	27.07	ppb	98
26) Nitrobenzene	4.08	123	103346	25.68	ppb	99
27) Quinoline	5.53	129	381517	24.51	ppb	99
28) Isophorone	4.40	82	388616	25.60	ppb	99
29) 2-Nitrophenol	4.52	139	106513	26.19	ppb	92

(#)=qualifier out of range (m)=manual integration

F92486.D MF4329.M

Wed Oct 20 13:05:22 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92486.D

Vial: 8

Acq On : 20 Oct 2010 11:54 am

Operator: ninap

Sample : ic4329-25

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:23:23 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.64	107	175357	23.05	ppb	92
31) Benzoic acid	4.83	105	140083m	25.40	ppb	
32) bis(2-Chloroethoxy)methane	4.77	93	249519	25.04	ppb	98
33) 2,4-Dichlorophenol	4.85	162	185564	25.09	ppb	98
34) 2,6-Dichlorophenol	5.18	162	180511	25.55	ppb	98
35) 1,3,5-Trichlorobenzene	4.52	180	202483	26.69	ppb	100
36) 1,2,4-Trichlorobenzene	4.95	180	204336	26.47	ppb	100
37) 1,2,3-Trichlorobenzene	5.30	180	196323	25.80	ppb	99
38) Naphthalene	5.02	128	584363	25.87	ppb	99
39) 4-Chloroaniline	5.18	127	253771	27.58	ppb	99
40) 2,3-Dichloroaniline	6.56	161	213203	26.21	ppb	99
41) Caprolactam	5.65	55	105591	23.09	ppb	97
42) Hexachlorobutadiene	5.33	225	115380	26.56	ppb	96
43) 4-Chloro-3-methylphenol	5.98	107	176739	24.47	ppb	95
44) 2-Methylnaphthalene	6.05	142	428958	26.57	ppb	99
45) 1-Methylnaphthalene	6.21	142	389045	25.66	ppb	99
46) Dimethylnaphthalene	7.02	156	352423	26.29	ppb	100
48) Hexachlorocyclopentadiene	6.42	237	173332	46.31	ppb	98
49) 2,4,6-Trichlorophenol	6.56	196	133619	26.23	ppb	99
50) 2,4,5-Trichlorophenol	6.62	196	150113	25.87	ppb	99
52) 2-Chloronaphthalene	6.78	162	408344	27.15	ppb	99
53) Biphenyl	6.80	154	487265	27.85	ppb	98
54) 2-Nitroaniline	7.04	65	115267	25.76	ppb	98
55) Dimethylphthalate	7.44	163	443423	26.73	ppb	100
56) Acenaphthylene	7.41	152	645738	26.54	ppb	100
57) 2,6-Dinitrotoluene	7.51	165	93403	24.59	ppb	96
58) 3-Nitroaniline	7.69	138	106715	26.61	ppb	98
59) Acenaphthene	7.71	153	381901	27.34	ppb	99
60) 2,4-Dinitrophenol	7.86	184	76351	37.99	ppb	97
61) 4-Nitrophenol	8.05	109	47116	22.29	ppb	94
62) Dibenzofuran	7.96	168	579022	27.12	ppb	98
63) 2,4-Dinitrotoluene	8.10	165	135289	26.10	ppb	88
64) 2,3,4,6-Tetrachlorophenol	8.26	232	126793	25.71	ppb	# 18
65) Diethylphthalate	8.57	149	419108	27.56	ppb	100
66) Fluorene	8.50	166	462601	26.83	ppb	99
67) 4-Chlorophenyl-phenylether	8.57	204	224840	27.71	ppb	98
68) 4-Nitroaniline	8.66	138	115574	25.50	ppb	98
70) 4,6-Dinitro-2-methylphenol	8.72	198	68728	21.85	ppb	# 99
71) n-Nitrosodiphenylamine	8.78	169	322752	26.85	ppb	99
72) 1,2-Diphenylhydrazine	8.81	77	442708	26.93	ppb	99
74) 4-Bromophenyl-phenylether	9.31	248	141364	26.67	ppb	100
75) Hexachlorobenzene	9.48	284	142473	27.25	ppb	99
76) Pentachlorophenol	9.80	266	184870	54.38	ppb	99
77) Phenanthrene	9.98	178	641409	26.22	ppb	100
78) Anthracene	10.04	178	677853	28.88	ppb	99
79) Carbazole	10.36	167	628183	26.31	ppb	99
80) Di-n-butylphthalate	11.15	149	740953	25.60	ppb	100
81) Fluoranthene	11.77	202	747413	26.23	ppb	100
82) Octadecane	10.03	57	285090	27.55	ppb	99

(#) = qualifier out of range (m) = manual integration

F92486.D MF4329.M

Wed Oct 20 13:05:22 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92486.D Vial: 8
Acq On : 20 Oct 2010 11:54 am Operator: ninap
Sample : ic4329-25 Inst : MSF
Misc : op46122,ef4329 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:23:23 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Wed Oct 20 12:20:17 2010
Response via : Initial Calibration
DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.05	202	794231	25.53	ppb	99
86) Butylbenzylphthalate	13.03	149	321192	24.14	ppb	95
87) Butyl stearate	13.12	56	223527	26.38	ppb	100
88) Benzo[a]anthracene	13.48	228	704505	24.14	ppb	99
89) 3,3'-Dichlorobenzidine	13.51	252	257630	25.63	ppb	97
90) Chrysene	13.52	228	681500	27.01	ppb	100
91) bis(2-Ethylhexyl)phthalate	13.72	149	447250	24.59	ppb	99
93) Di-n-octylphthalate	14.31	149	749834	24.54	ppb	98
94) Benzo[b]fluoranthene	14.53	252	630930	20.52	ppb	98
95) Benzo[k]fluoranthene	14.55	252	776589	35.49	ppb	97
96) Benzo[a]pyrene	14.81	252	671459	25.72	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.82	276	715445	25.66	ppb	98
98) Dibenz(a,h)acridine	15.61	279	514575	23.99	ppb	99
99) Dibenz[a,h]anthracene	15.85	278	578845	25.23	ppb	99
100) 7,12-Dimethylbenz(a)anthra	14.56	256	275873	26.52	ppb	97
101) Benzo[g,h,i]perylene	16.08	276	621230	25.40	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F92486.D MF4329.M Wed Oct 20 13:05:23 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92486.D

Vial: 8

Acq On : 20 Oct 2010 11:54 am

Operator: ninap

Sample : ic4329-25

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:24 2010

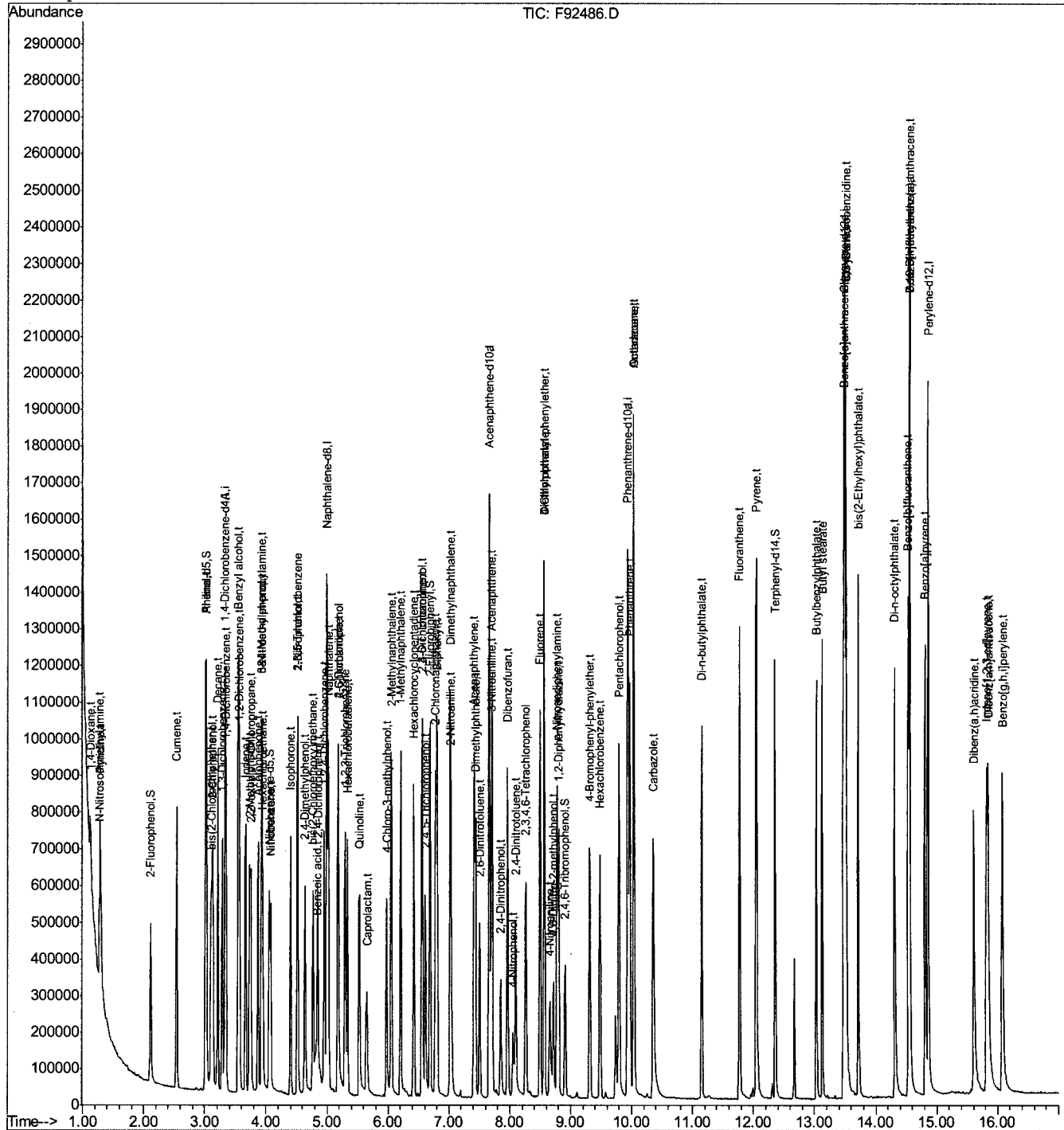
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



F92486.D MF4329.M

Wed Oct 20 13:05:24 2010

GCMS3A

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Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92486.D **Analyst approved:** 10/20/10 13:04 Nina Pandya
Injection Time: 10/20/10 11:54 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		4.83	Poorly defined baseline

8.6.37.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92486.D

Vial: 8

Acq On : 20 Oct 2010 11:54 am

Operator: ninap

Sample : ic4329-25

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:23 2010

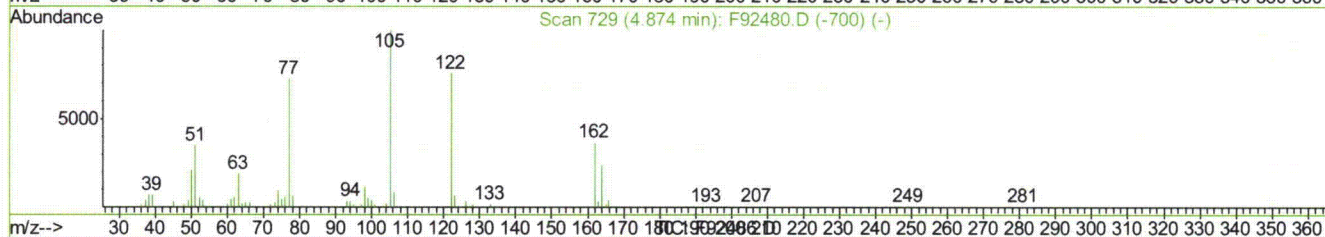
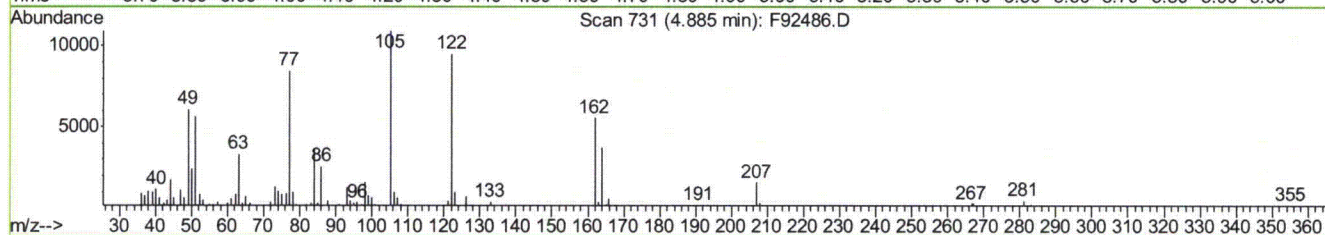
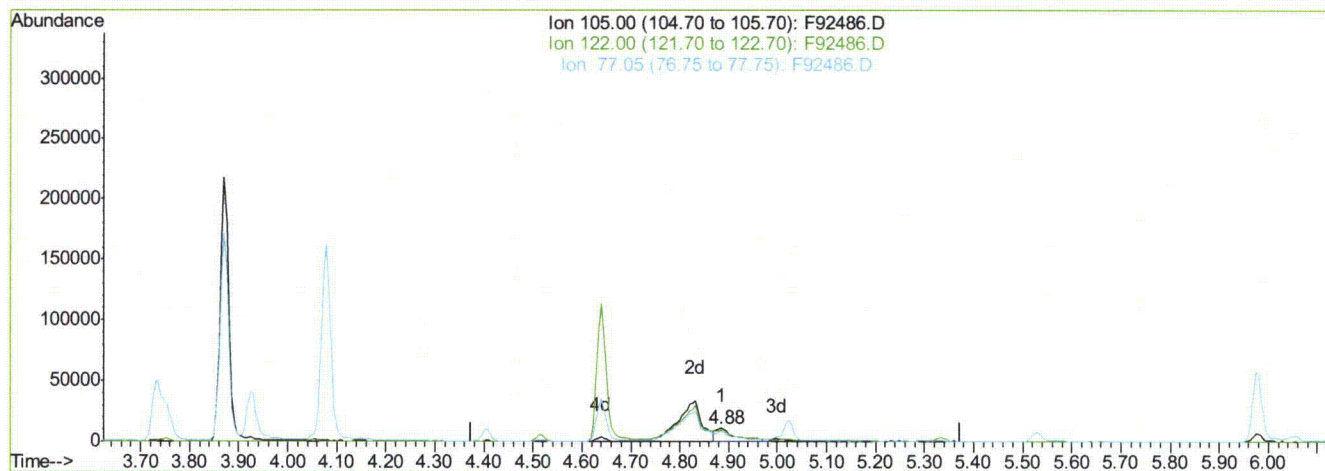
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:20:17 2010

Response via : Multiple Level Calibration



(31) Benzoic acid (t)

4.88min 5.10ppb

response 28135

Ion	Exp%	Act%
105.00	100	100
122.00	76.10	76.16
77.05	74.10	64.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92486.D

Vial: 8

Acq On : 20 Oct 2010 11:54 am

Operator: ninap

Sample : ic4329-25

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:24 2010

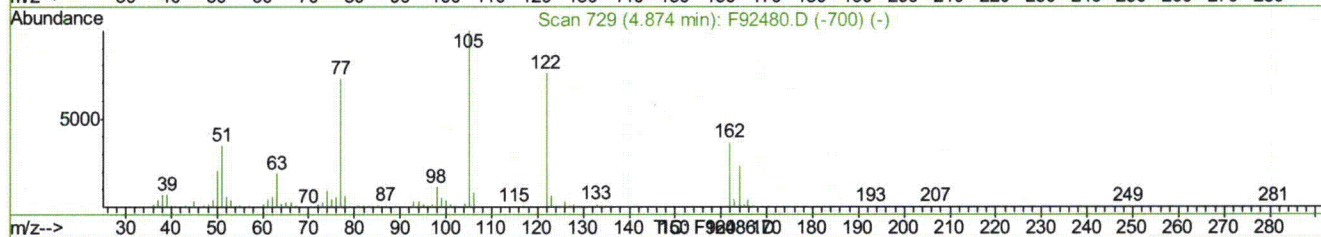
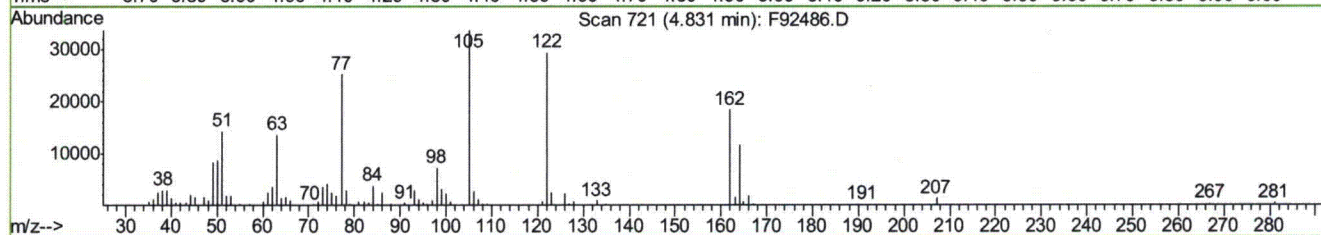
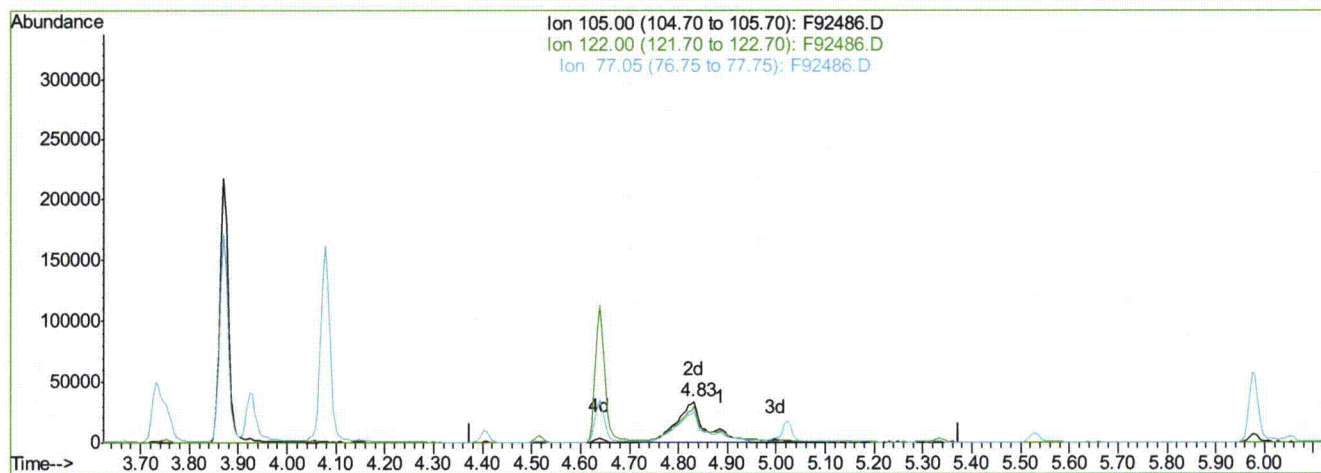
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(31) Benzoic acid (t)

4.83min 25.40ppb m

response 140083

Ion	Exp%	Act%
105.00	100	100
122.00	76.10	87.62
77.05	74.10	75.22
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)

Kristi Schollenberger
10/22/10 16:12

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:37:28 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:37:25 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.34	152	276559	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	996810	40.00	ppb	0.00
47) Acenaphthene-d10	7.67	164	648036	40.00	ppb	0.00
69) Phenanthrene-d10	9.95	188	1093925	40.00	ppb	0.00
83) Chrysene-d12	13.50	240	1123576	40.00	ppb	0.00
92) Perylene-d12	14.87	264	1010455	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.34	152	276559	40.00	ppb	0.00
104) Acenaphthene-d10a	7.67	164	648036	40.00	ppb	0.00
106) Phenanthrene-d10a	9.95	188	1093925	40.00	ppb	0.00
108) Chrysene-d12a	13.50	240	1123576	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.12	112	744782	82.98	ppb	0.00
Spiked Amount	50.000		Recovery	=	165.96%	
8) Phenol-d5	3.03	99	916266	84.30	ppb	0.01
Spiked Amount	50.000		Recovery	=	168.60%	
25) Nitrobenzene-d5	4.07	82	792146	80.51	ppb	0.01
Spiked Amount	50.000		Recovery	=	161.02%	
51) 2-Fluorobiphenyl	6.70	172	1612886	68.39	ppb	0.00
Spiked Amount	50.000		Recovery	=	136.78%	
73) 2,4,6-Tribromophenol	8.92	330	223583	85.58	ppb	0.00
Spiked Amount	50.000		Recovery	=	171.16%	
85) Terphenyl-d14	12.36	244	1754830	76.48	ppb	0.00
Spiked Amount	50.000		Recovery	=	152.96%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	333604	72.10	ppb	91
3) Pyridine	1.28	79	823318	75.50	ppb	95
4) N-Nitrosodimethylamine	1.27	74	497580	75.68	ppb	99
6) Indene	3.67	116	1027594	75.60	ppb	97
7) Cumene	2.54	105	1364369	73.10	ppb	100
9) Phenol	3.04	94	968744	81.98	ppb	91
10) Aniline	3.02	93	891223	67.14	ppb	87
11) bis(2-Chloroethyl)ether	3.11	93	699715	70.45	ppb	98
12) 2-Chlorophenol	3.14	128	701065	78.77	ppb	97
13) Decane	3.21	43	759393	70.24	ppb	99
14) 1,3-Dichlorobenzene	3.29	146	816354	72.69	ppb	97
15) 1,4-Dichlorobenzene	3.35	146	796619	73.38	ppb	99
16) Benzyl alcohol	3.56	108	457085	81.87	ppb	98
17) 1,2-Dichlorobenzene	3.58	146	707426	67.90	ppb	99
18) Acetophenone	3.88	105	956318	81.59	ppb	98
19) 2-Methylphenol	3.74	108	650224	88.70	ppb	99
20) 2,2'-oxybis(1-Chloropropan	3.76	121	213280	73.52	ppb	97
21) 3&4-Methylphenol	3.94	108	630932	84.01	ppb	97
22) n-Nitroso-di-n-propylamine	3.94	70	455858	70.96	ppb	96
23) Hexachloroethane	3.95	201	262244	67.35	ppb	97
26) Nitrobenzene	4.09	123	355925	78.15	ppb	97
27) Quinoline	5.56	129	1405267	82.35	ppb	99
28) Isophorone	4.42	82	1348667	72.71	ppb	98
29) 2-Nitrophenol	4.52	139	370120	86.17	ppb	99

(#)=qualifier out of range (m)=manual integration

F92487.D MF4329.M

Wed Oct 20 13:05:34 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:37:28 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:37:25 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.65	107	697497	90.69	ppb	97
31) Benzoic acid	4.94	105	576119	101.05	ppb	96
32) bis(2-Chloroethoxy)methane	4.78	93	889799	80.55	ppb	98
33) 2,4-Dichlorophenol	4.86	162	673440	86.82	ppb	98
34) 2,6-Dichlorophenol	5.19	162	644035	84.19	ppb	99
35) 1,3,5-Trichlorobenzene	4.53	180	682348	71.90	ppb	100
36) 1,2,4-Trichlorobenzene	4.96	180	694659	73.00	ppb	99
37) 1,2,3-Trichlorobenzene	5.31	180	682934	73.41	ppb	99
38) Naphthalene	5.03	128	1987912	71.93	ppb	99
39) 4-Chloroaniline	5.19	127	810357	72.41	ppb	100
40) 2,3-Dichloroaniline	6.56	161	715847	72.66	ppb	100
41) Caprolactam	5.73	55	418374	83.03	ppb	99
42) Hexachlorobutadiene	5.34	225	396098	71.54	ppb	97
43) 4-Chloro-3-methylphenol	6.00	107	656399	87.80	ppb	89
44) 2-Methylnaphthalene	6.06	142	1442623	72.83	ppb	98
45) 1-Methylnaphthalene	6.22	142	1348970	72.58	ppb	98
46) Dimethylnaphthalene	7.03	156	1204292	71.77	ppb	99
48) Hexachlorocyclopentadiene	6.43	237	686470	176.61	ppb	99
49) 2,4,6-Trichlorophenol	6.57	196	469176	76.33	ppb	100
50) 2,4,5-Trichlorophenol	6.63	196	543171	77.25	ppb	99
52) 2-Chloronaphthalene	6.79	162	1364568	68.07	ppb	96
53) Biphenyl	6.81	154	1592180	66.54	ppb	100
54) 2-Nitroaniline	7.05	65	409590	78.13	ppb	99
55) Dimethylphthalate	7.45	163	1520381	68.22	ppb	99
56) Acenaphthylene	7.42	152	2206939	70.65	ppb	100
57) 2,6-Dinitrotoluene	7.52	165	361604	85.70	ppb	95
58) 3-Nitroaniline	7.71	138	364477	76.82	ppb	99
59) Acenaphthene	7.72	153	1253044	65.37	ppb	95
60) 2,4-Dinitrophenol	7.87	184	416393	213.32	ppb	99
61) 4-Nitrophenol	8.08	109	203214	93.39	ppb	99
62) Dibenzofuran	7.98	168	1977660	68.64	ppb	97
63) 2,4-Dinitrotoluene	8.12	165	493319	86.58	ppb	99
64) 2,3,4,6-Tetrachlorophenol	8.27	232	462028	81.22	ppb	# 18
65) Diethylphthalate	8.58	149	1384214	65.54	ppb	98
66) Fluorene	8.51	166	1590671	69.65	ppb	96
67) 4-Chlorophenyl-phenylether	8.58	204	740698	66.59	ppb	98
68) 4-Nitroaniline	8.70	138	425359	79.85	ppb	99
70) 4,6-Dinitro-2-methylphenol	8.75	198	314515	101.95	ppb	# 100
71) n-Nitrosodiphenylamine	8.80	169	1089557	70.15	ppb	99
72) 1,2-Diphenylhydrazine	8.82	77	1476682	67.38	ppb	98
74) 4-Bromophenyl-phenylether	9.32	248	492224	72.91	ppb	97
75) Hexachlorobenzene	9.50	284	490937	69.74	ppb	98
76) Pentachlorophenol	9.81	266	654942	160.03	ppb	99
77) Phenanthrene	9.99	178	2253819	68.75	ppb	100
78) Anthracene	10.06	178	2124165	61.64	ppb	99
79) Carbazole	10.37	167	2176633	71.62	ppb	99
80) Di-n-butylphthalate	11.16	149	2585649	73.13	ppb	100
81) Fluoranthene	11.78	202	2610295	70.29	ppb	98
82) Octadecane	10.04	57	907679	67.78	ppb	99

(#) = qualifier out of range (m) = manual integration

F92487.D MF4329.M

Wed Oct 20 13:05:34 2010

GCMS3A

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D Vial: 9
 Acq On : 20 Oct 2010 12:18 pm Operator: ninap
 Sample : ic4329-80 Inst : MSF
 Misc : op46122,ef4329 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 12:37:28 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 12:37:25 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.06	202	2633523	72.90	ppb	99
86) Butylbenzylphthalate	13.03	149	1129012	82.00	ppb	99
87) Butyl stearate	13.13	56	699906	59.68	ppb	97
88) Benzo[a]anthracene	13.48	228	2503442	77.61	ppb	98
89) 3,3'-Dichlorobenzidine	13.52	252	859992	77.83	ppb	99
90) Chrysene	13.53	228	2119119	65.75	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.72	149	1557583	81.59	ppb	98
93) Di-n-octylphthalate	14.32	149	2710455	84.07	ppb	98
94) Benzo[b]fluoranthene	14.55	252	2615914m	87.33	ppb	
95) Benzo[k]fluoranthene	14.57	252	2168523m	59.63	ppb	
96) Benzo[a]pyrene	14.82	252	2398707	79.87	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.84	276	2622088	80.40	ppb	97
98) Dibenz(a,h)acridine	15.62	279	2004489	87.12	ppb	99
99) Dibenz[a,h]anthracene	15.86	278	2123633	80.19	ppb	98
100) 7,12-Dimethylbenz(a)anthra	14.58	256	940968	75.95	ppb	98
101) Benzo[g,h,i]perylene	16.11	276	2281944	79.03	ppb	98

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92487.D MF4329.M Wed Oct 20 13:05:34 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:38 2010

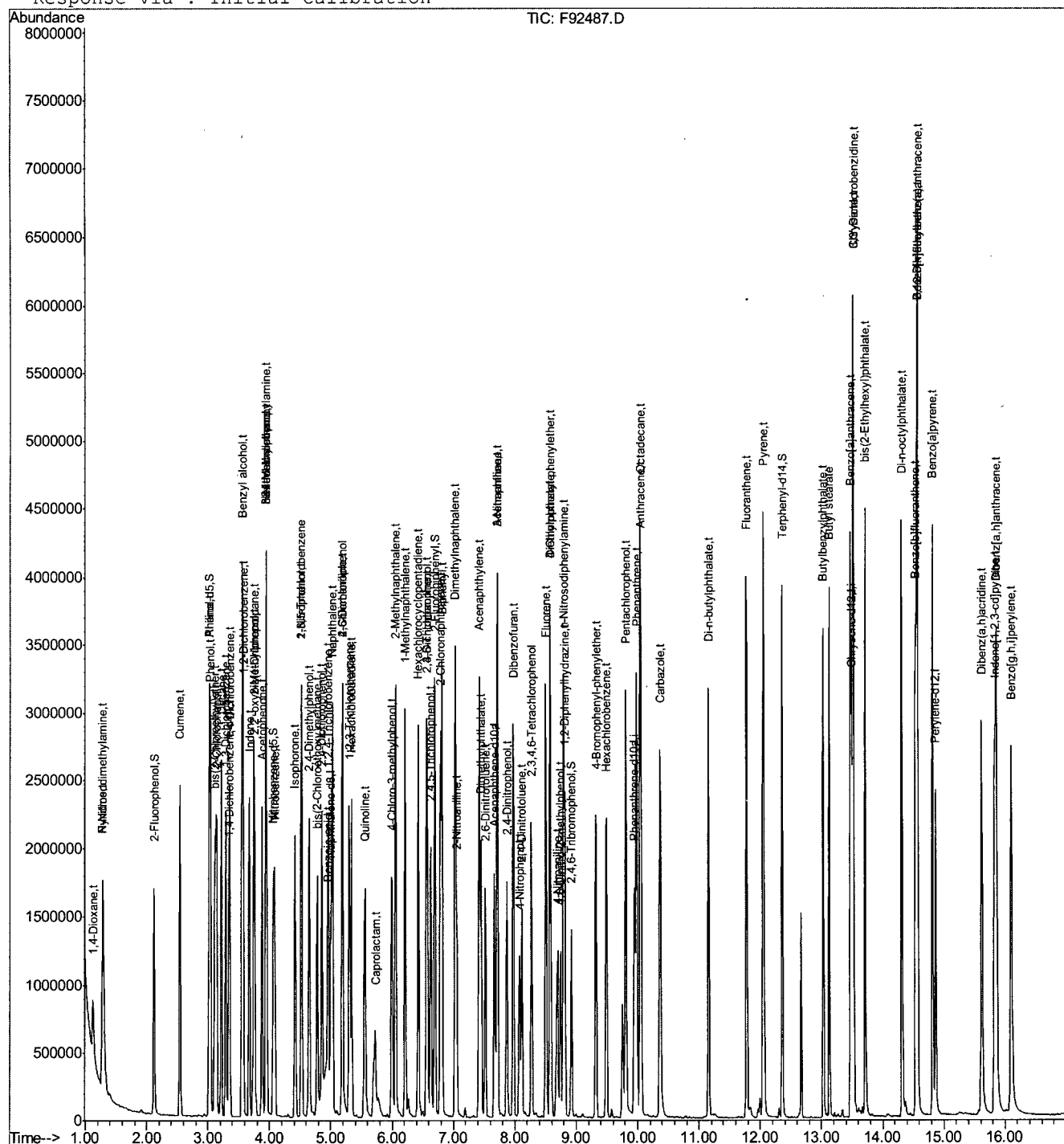
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:50:15 2010

Response via : Initial Calibration



Manual Integration Approval Summary

Page 1 of 1

Sample Number: EF4329-IC4329 **Method:** SW846 8270C
Lab FileID: F92487.D **Analyst approved:** 10/20/10 13:04 Nina Pandya
Injection Time: 10/20/10 12:18 **Supervisor approved:** 10/22/10 16:12 Kristi Schollenberger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.55	Overlapping peak
Benzo(k)fluoranthene	207-08-9		14.57	Overlapping peak

8.6.38.1

8

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:37 2010

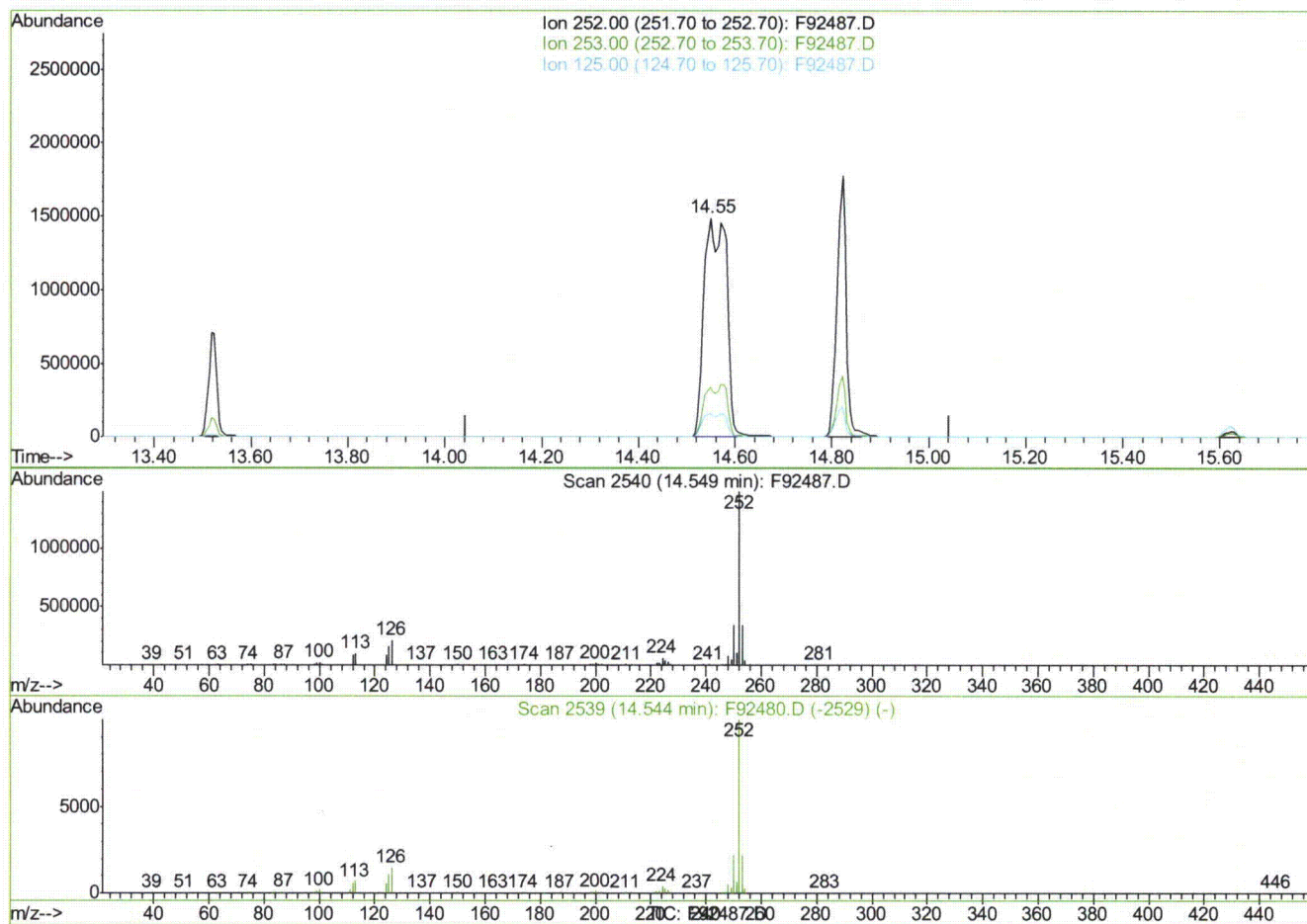
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:37:25 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.55min 160.29ppb

response 4801543

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.93
125.00	9.60	10.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:38 2010

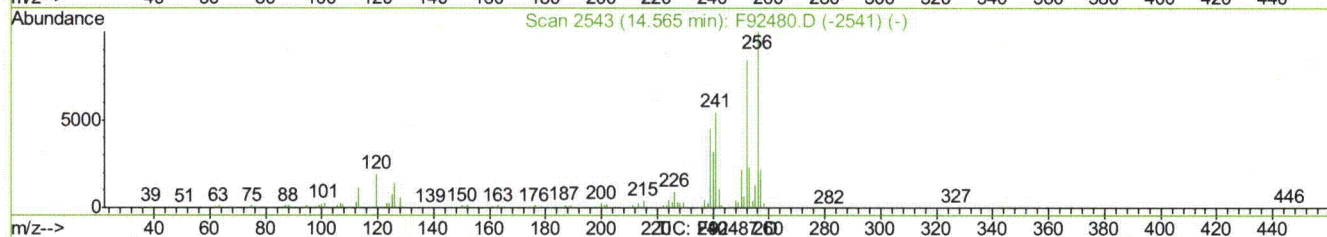
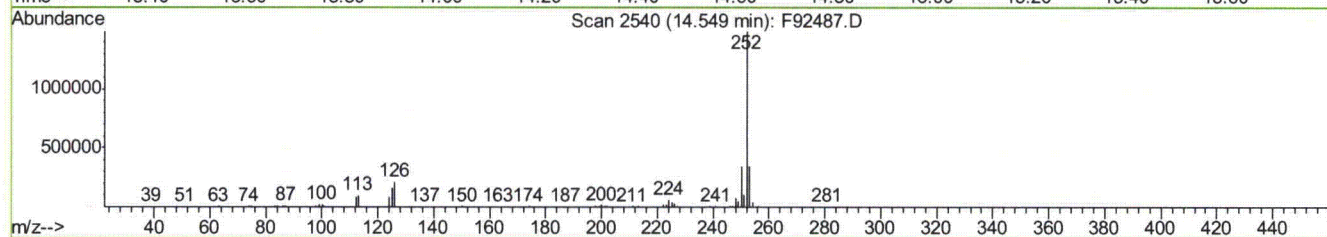
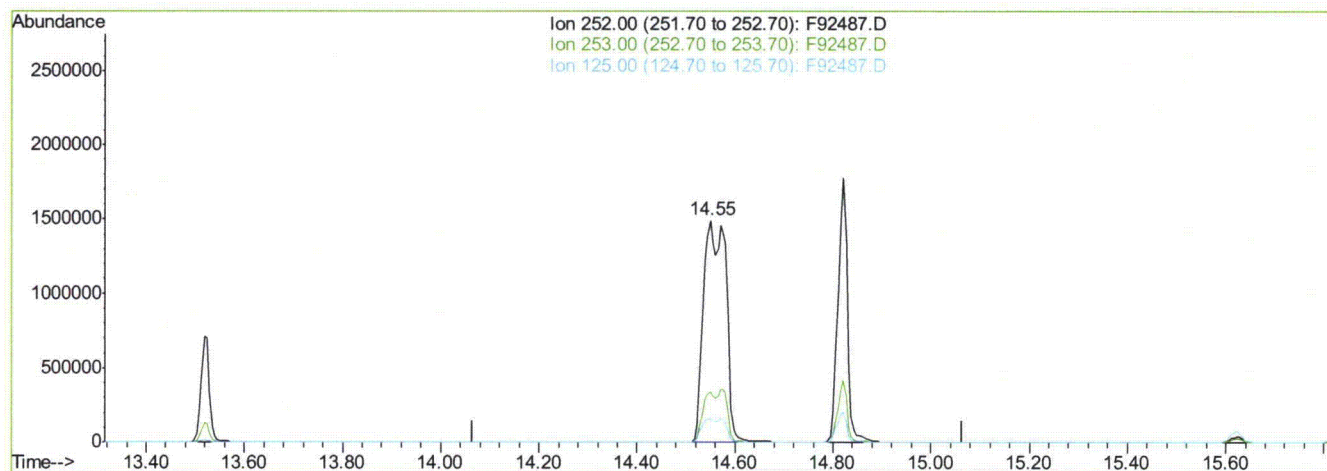
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 12:37:25 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.55min 132.04ppb

response 4801543

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	22.93
125.00	11.30	10.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:38 2010

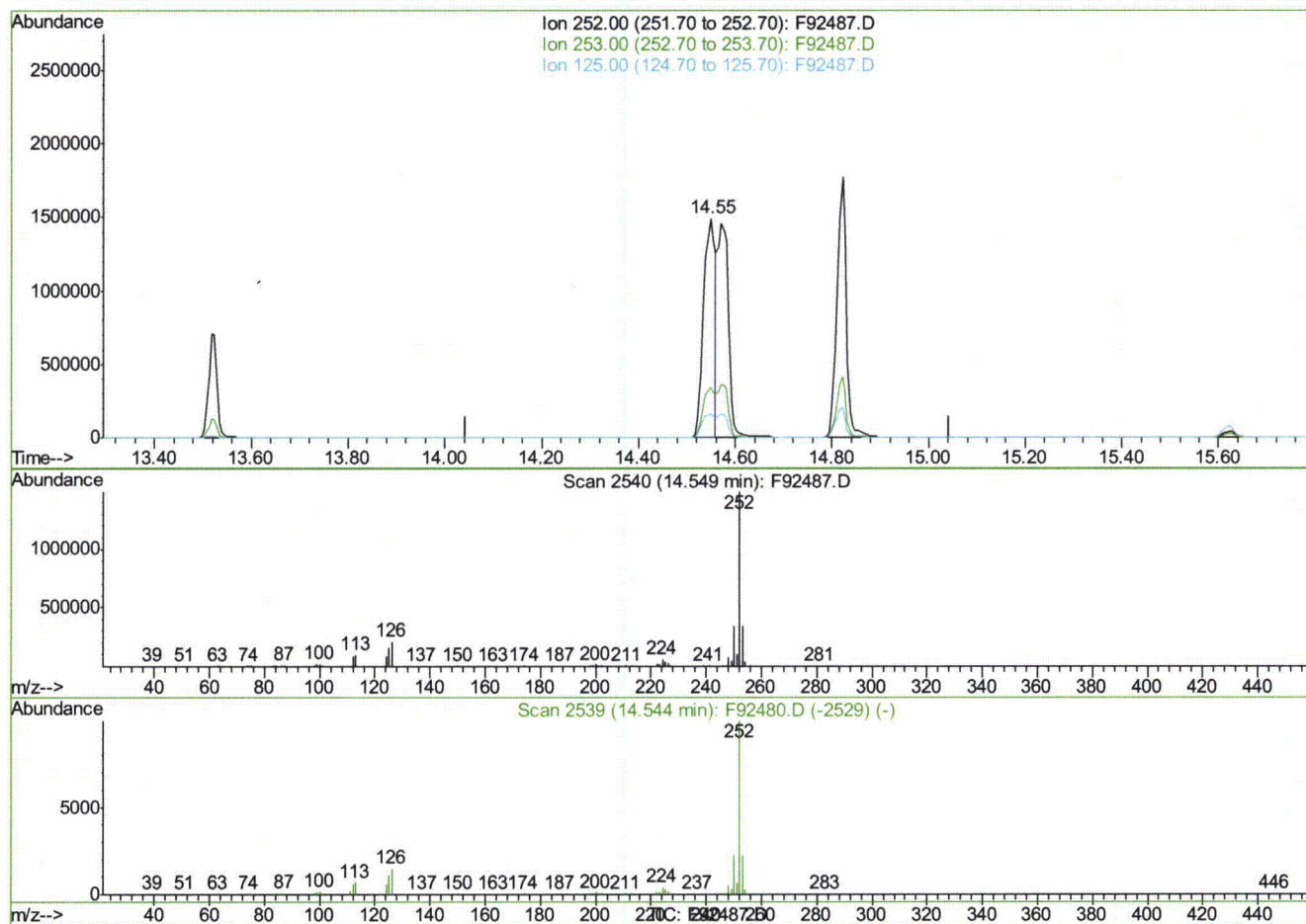
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

14.55min 87.33ppb m

response 2615914

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.94
125.00	9.60	10.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF4329\F92487.D

Vial: 9

Acq On : 20 Oct 2010 12:18 pm

Operator: ninap

Sample : ic4329-80

Inst : MSF

Misc : op46122,ef4329

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 12:38 2010

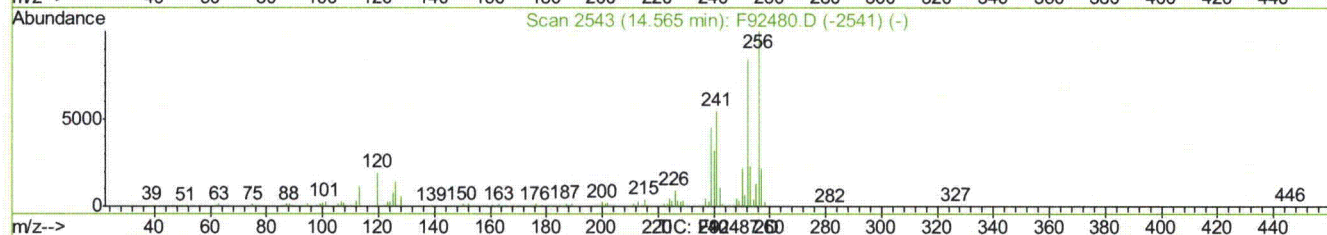
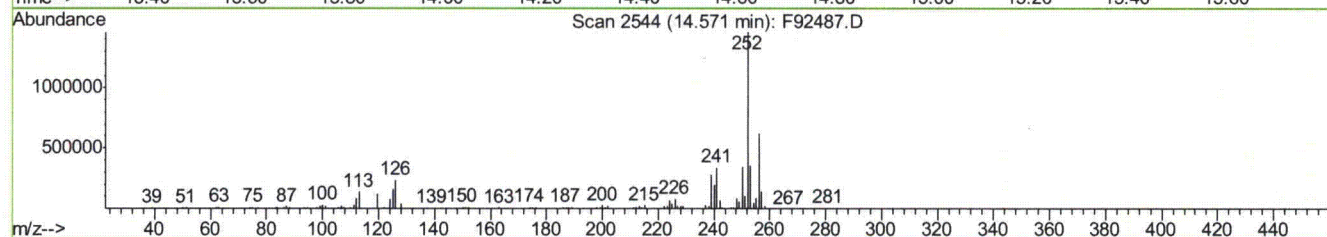
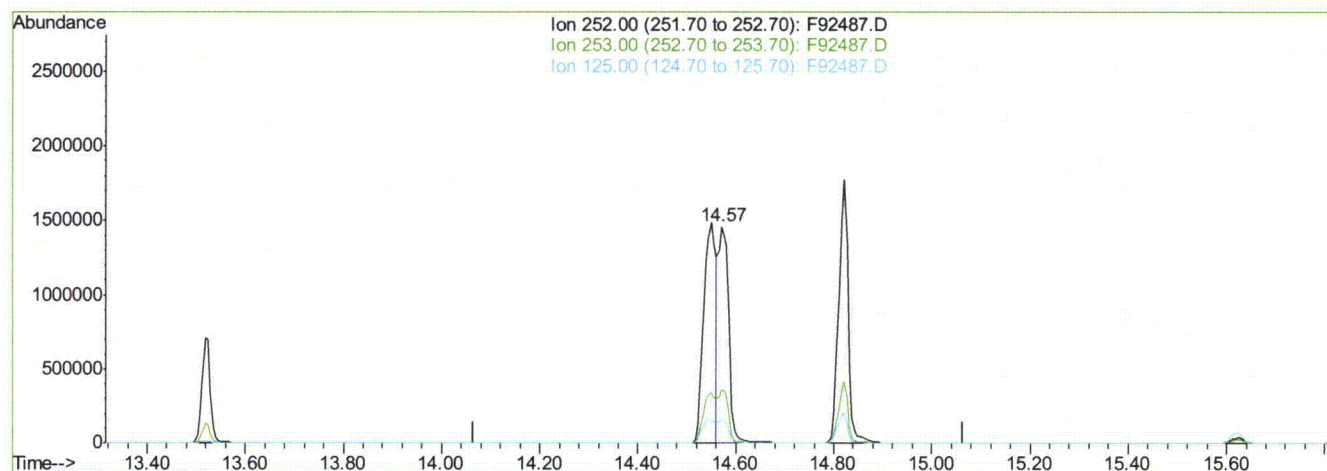
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 13:18:14 2010

Response via : Multiple Level Calibration



(95) Benzo[k]fluoranthene (t)

14.57min 59.63ppb m

response 2168523

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	24.43
125.00	11.30	10.81
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92489.D

Vial: 2

Acq On : 20 Oct 2010 1:08 pm

Operator: ninap

Sample : icc4330-50

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 14:38:02 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:37:53 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	211331	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	751398	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	511039	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	909136	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	994588	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	839795	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	211331	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	511039	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	909136	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	994588	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.86	105	256614	50.00	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	375208	50.00	ppb	98
107) Atrazine	9.75	200	229205	50.06	ppb	# 100
109) Benzydine	12.04	184	736391	50.00	ppb	100

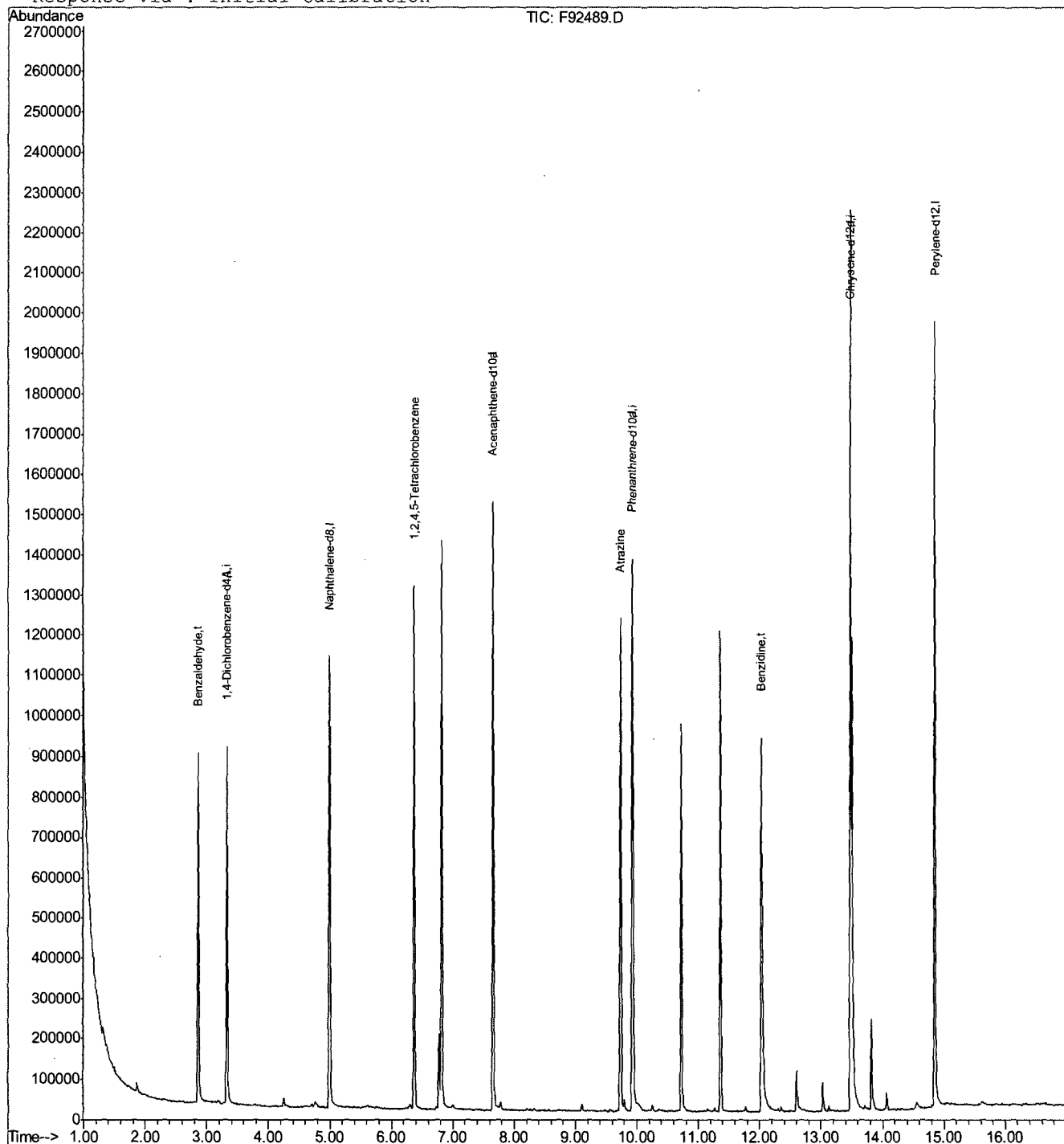
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92489.D MF4329.M Wed Oct 20 14:39:25 2010 GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92489.D Vial: 2
Acq On : 20 Oct 2010 1:08 pm Operator: ninap
Sample : icc4330-50 Inst : MSF
Misc : op46122,ef4330 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:38 2010 Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Wed Oct 20 14:37:53 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92490.D

Vial: 3

Acq On : 20 Oct 2010 1:33 pm

Operator: ninap

Sample : ic4330-1

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 14:40:09 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	212278	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	739805	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	481251	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	868546	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	934573	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	787837	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	212278	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	481251	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	868546	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	934573	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.87	105	3925	0.76	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	5140	0.73	ppb	# 96
107) Atrazine	9.73	200	2533	0.58	ppb	# 100
109) Benzdine	12.08	184	11848	0.86	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92490.D MF4329.M Wed Oct 20 14:40:59 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92490.D

Vial: 3

Acq On : 20 Oct 2010 1:33 pm

Operator: ninap

Sample : ic4330-1

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 14:40 2010

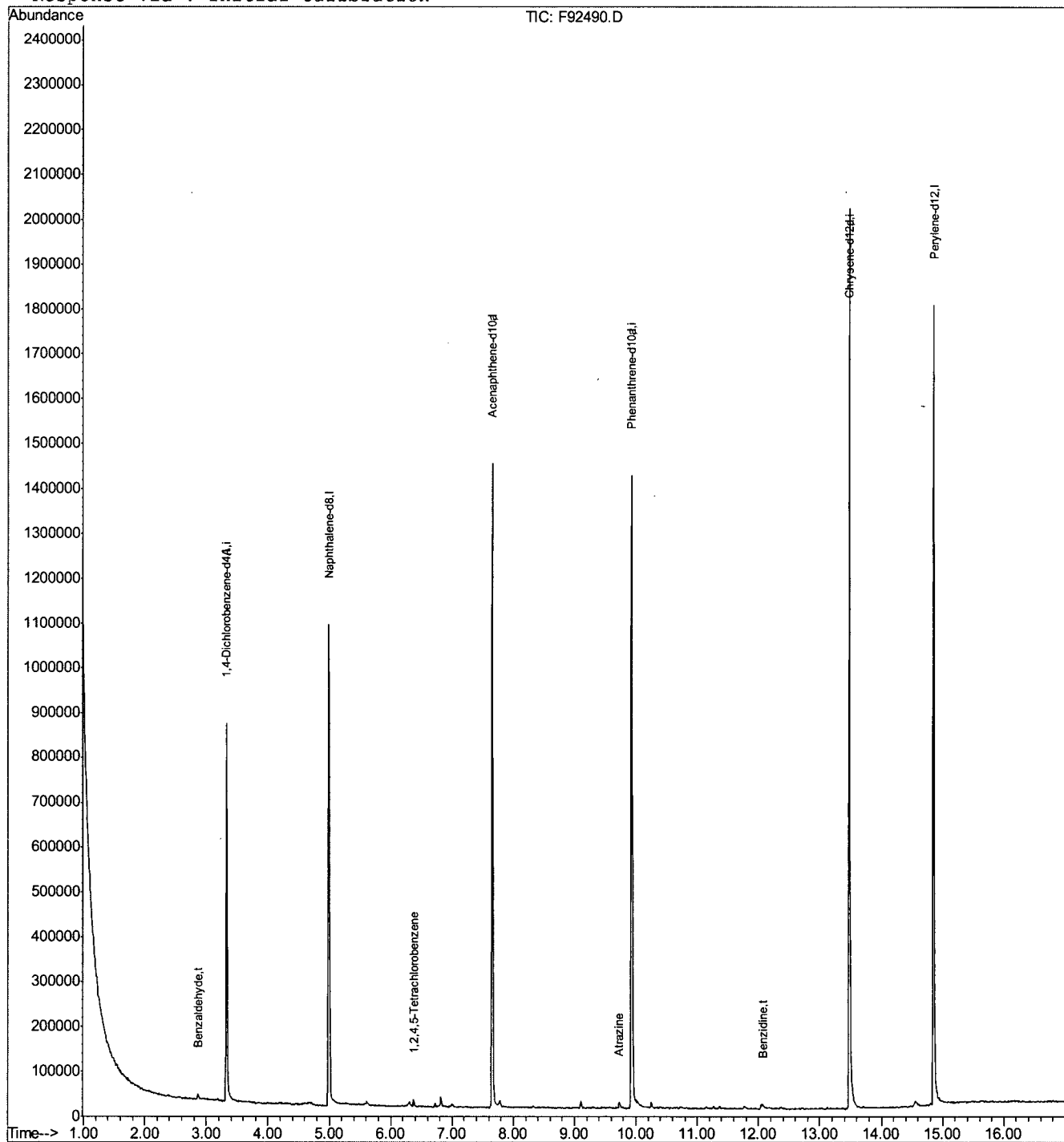
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92491.D

Vial: 4

Acq On : 20 Oct 2010 1:57 pm

Operator: ninap

Sample : ic4330-2

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 14:41:11 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	215249	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	789896	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	506778	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	881832	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	975008	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	826882	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	215249	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	506778	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	881832	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	975008	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.87	105	11113	2.13	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	14655	1.97	ppb	99
107) Atrazine	9.73	200	7444	1.67	ppb	# 100
109) Benzdine	12.07	184	26661	1.85	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92491.D MF4329.M Wed Oct 20 14:41:52 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92491.D

Vial: 4

Acq On : 20 Oct 2010 1:57 pm

Operator: ninap

Sample : ic4330-2

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 14:41 2010

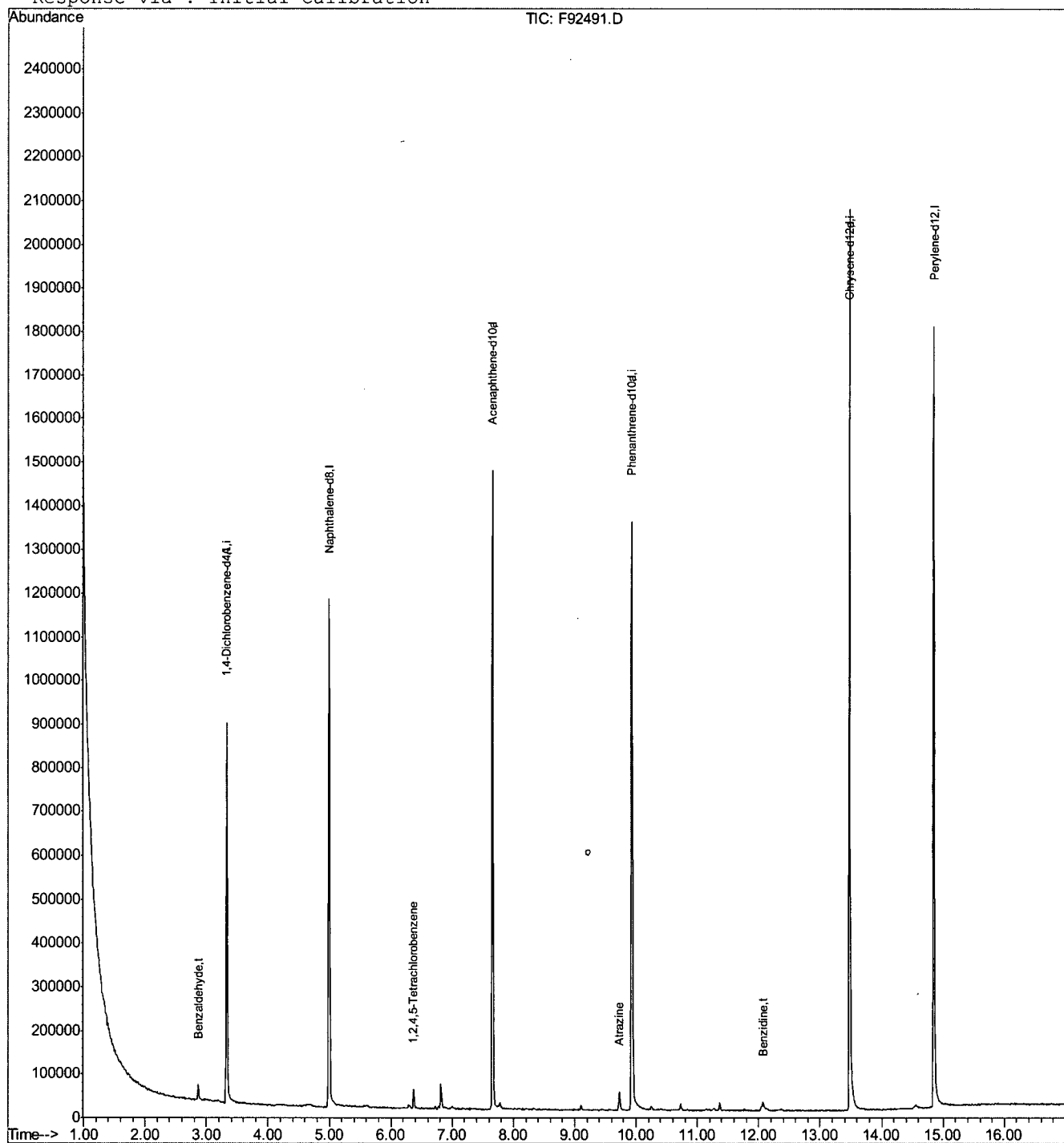
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92492.D Vial: 5
 Acq On : 20 Oct 2010 2:22 pm Operator: ninap
 Sample : ic4330-5 Inst : MSF
 Misc : op46122,ef4330 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 14:42:07 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 14:39:46 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	204031	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	753883	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	491968	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	862990	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	934439	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	791474	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	204031	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	491968	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	862990	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	934439	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.87	105	25487	5.14	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.37	216	35608	4.93	ppb	99
107) Atrazine	9.73	200	18875	4.34	ppb	# 100
109) Benzidine	12.06	184	58264	4.21	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92492.D MF4329.M Wed Oct 20 14:42:44 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92492.D

Vial: 5

Acq On : 20 Oct 2010 2:22 pm

Operator: ninap

Sample : ic4330-5

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 14:42 2010

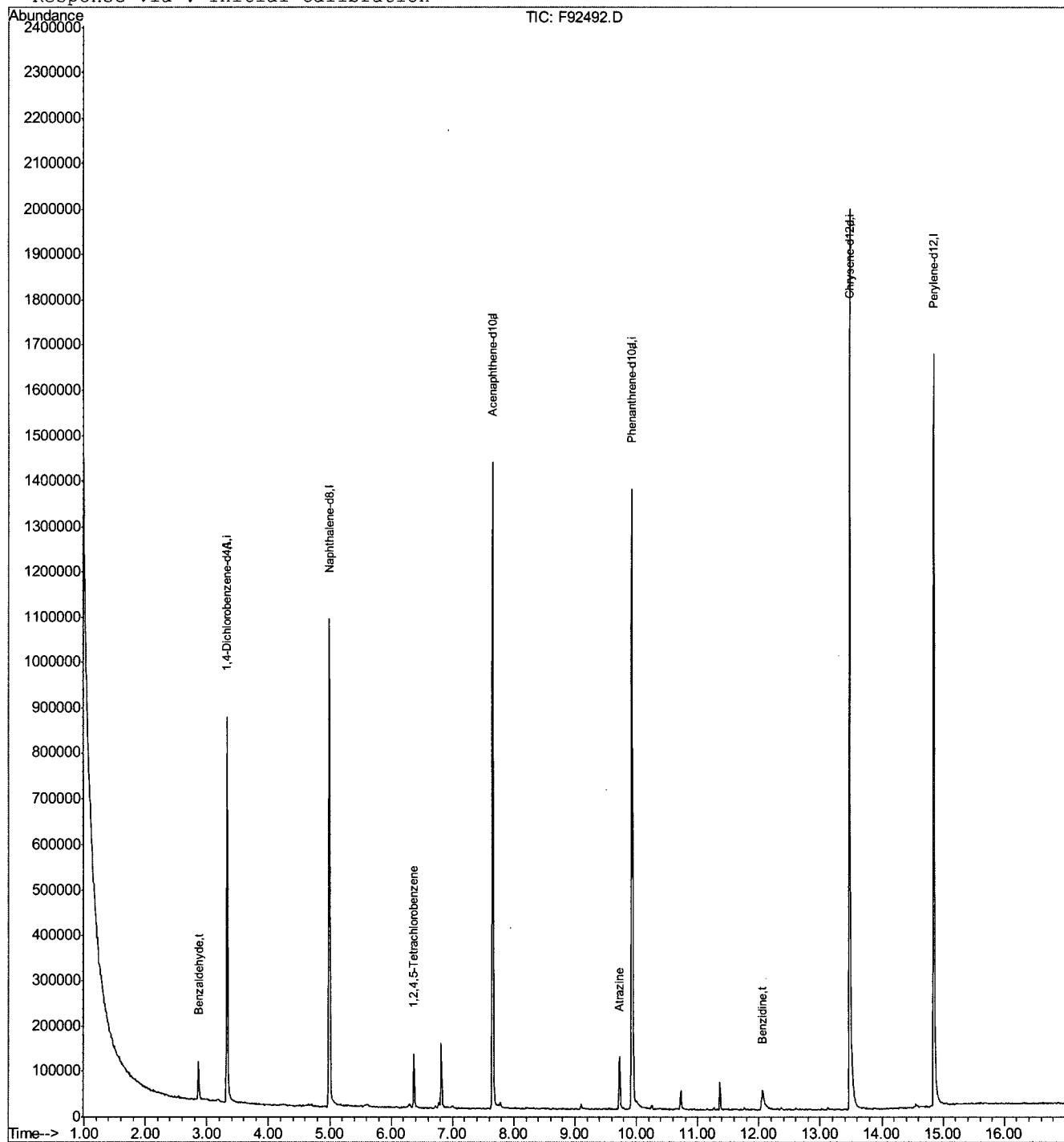
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92493.D

Vial: 6

Acq On : 20 Oct 2010 2:46 pm

Operator: ninap

Sample : ic4330-10

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 15:05:41 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	220990	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	766892	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	519071	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	922168	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	1006419	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	861065	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	220990	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	519071	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	922168	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	1006419	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.87	105	53519	9.97	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	75081	9.85	ppb	99
107) Atrazine	9.73	200	41457	8.92	ppb	# 100
109) Benzdine	12.05	184	129207	8.67	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92493.D MF4329.M Wed Oct 20 15:06:32 2010 GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92493.D

Vial: 6

Acq On : 20 Oct 2010 2:46 pm

Operator: ninap

Sample : ic4330-10

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 15:06 2010

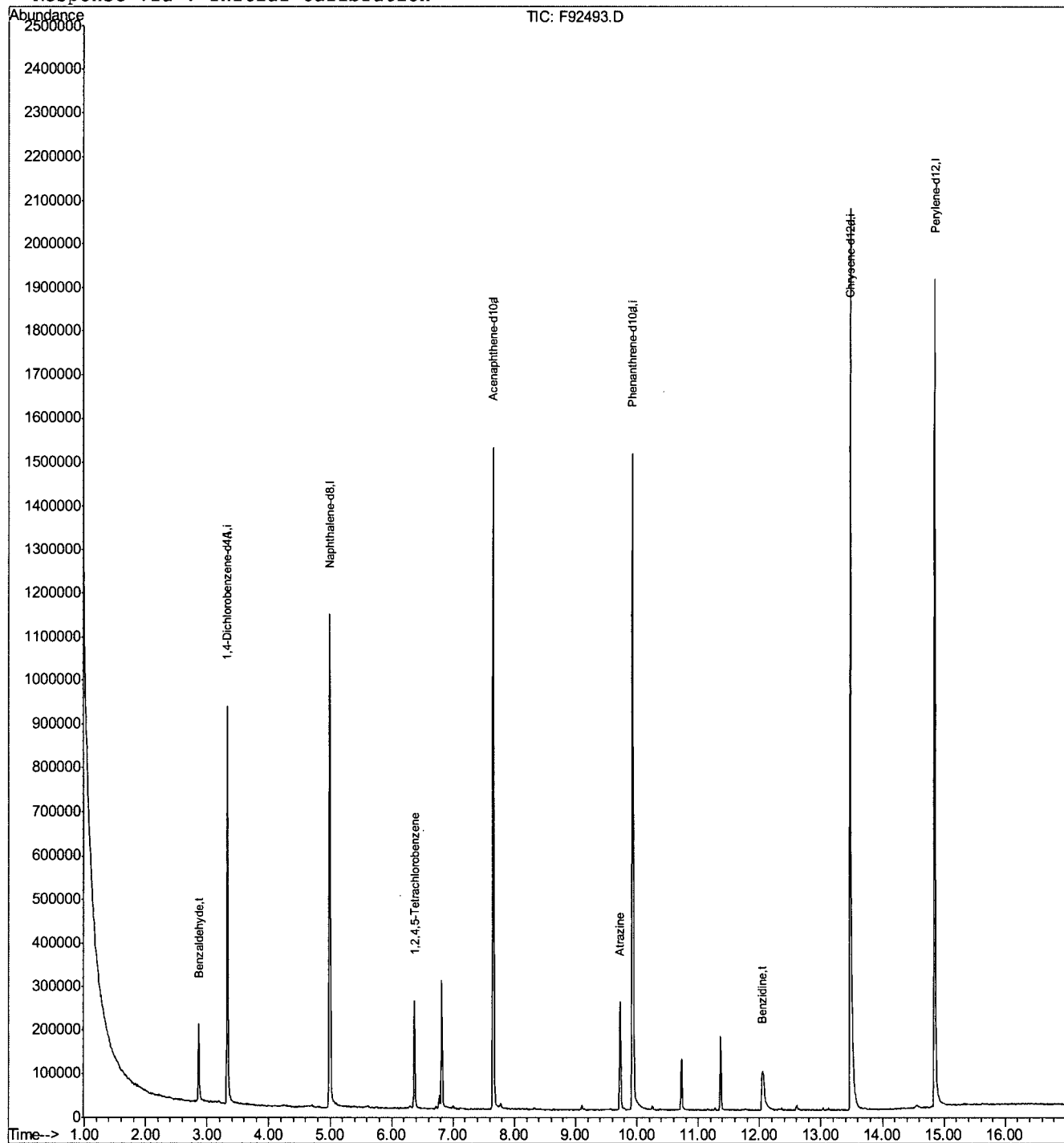
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92494.D Vial: 7
 Acq On : 20 Oct 2010 3:10 pm Operator: ninap
 Sample : ic4330-25 Inst : MSF
 Misc : op46122,ef4330 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 15:47:04 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 14:39:46 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	212032	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	734726	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	493632	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	867488	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	939094	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	787789	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	212032	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	493632	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	867488	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	939094	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.87	105	129870	25.22	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	185314	25.57	ppb	99
107) Atrazine	9.74	200	108825	24.88	ppb	# 100
109) Benzydine	12.04	184	312018	22.44	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92494.D MF4329.M Wed Oct 20 15:47:31 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92494.D

Vial: 7

Acq On : 20 Oct 2010 3:10 pm

Operator: ninap

Sample : ic4330-25

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 15:47 2010

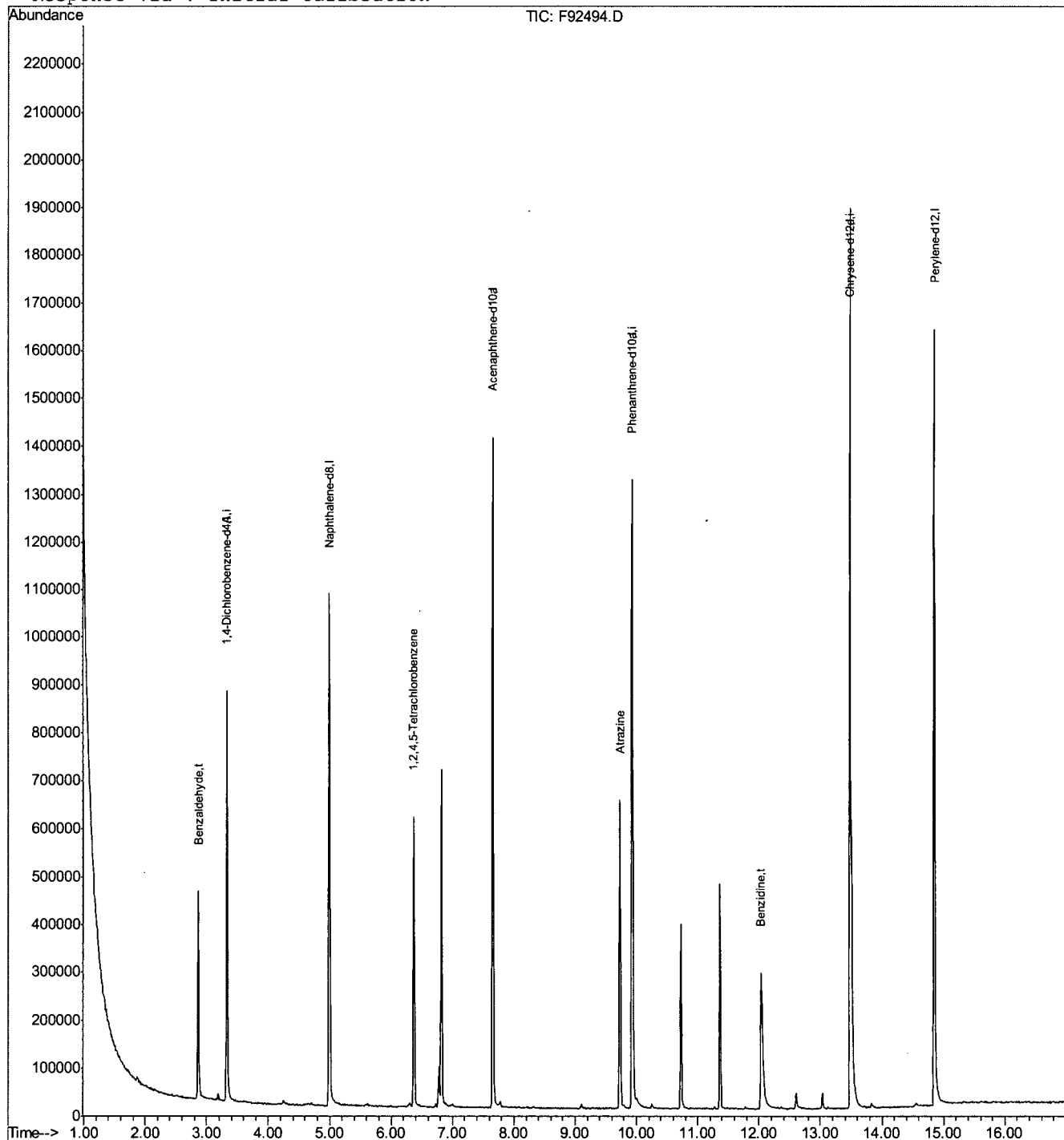
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92495.D Vial: 8
 Acq On : 20 Oct 2010 3:35 pm Operator: ninap
 Sample : ic4330-80 Inst : MSF
 Misc : op46122,ef4330 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 16:01:46 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 14:39:46 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	174378	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	609347	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	414741	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	738904	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	833619	40.00	ppb	-0.01
92) Perylene-d12	14.85	264	713365	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	174378	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	414741	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	738904	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	833619	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.86	105	298308	70.44	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	477201	78.36	ppb	# 99
107) Atrazine	9.75	200	296616	79.61	ppb	# 100
109) Benzidine	12.04	184	509417	41.27	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92495.D MF4329.M Wed Oct 20 16:02:15 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92495.D

Vial: 8

Acq On : 20 Oct 2010 3:35 pm

Operator: ninap

Sample : ic4330-80

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 16:02 2010

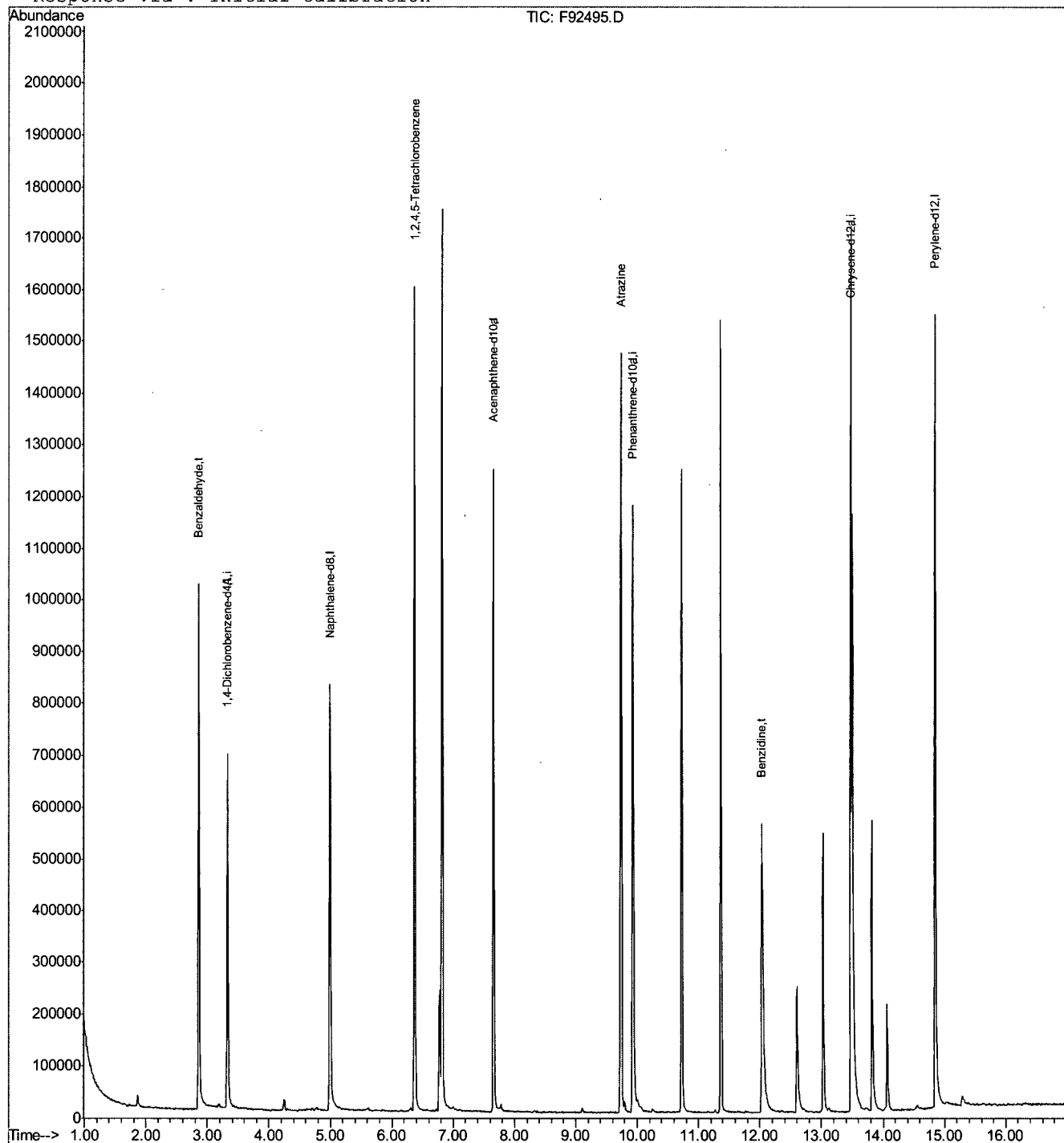
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92496.D Vial: 9
 Acq On : 20 Oct 2010 3:59 pm Operator: ninap
 Sample : ic4330-100 Inst : MSF
 Misc : op46122,ef4330 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 20 18:07:00 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Wed Oct 20 14:39:46 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	181691	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	660593	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	446771	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	805258	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	887981	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	774275	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	181691	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	446771	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	805258	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	887981	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
103) Benzaldehyde	2.87	105	334590	75.83	ppb	# 100
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	578637	88.20	ppb	99
107) Atrazine	9.75	200	359566	88.56	ppb	# 100
109) Benzidine	12.04	184	550926	41.90	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92496.D MF4329.M Thu Oct 21 11:30:15 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92496.D

Vial: 9

Acq On : 20 Oct 2010 3:59 pm

Operator: ninap

Sample : ic4330-100

Inst : MSF

Misc : op46122,ef4330

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 20 18:07 2010

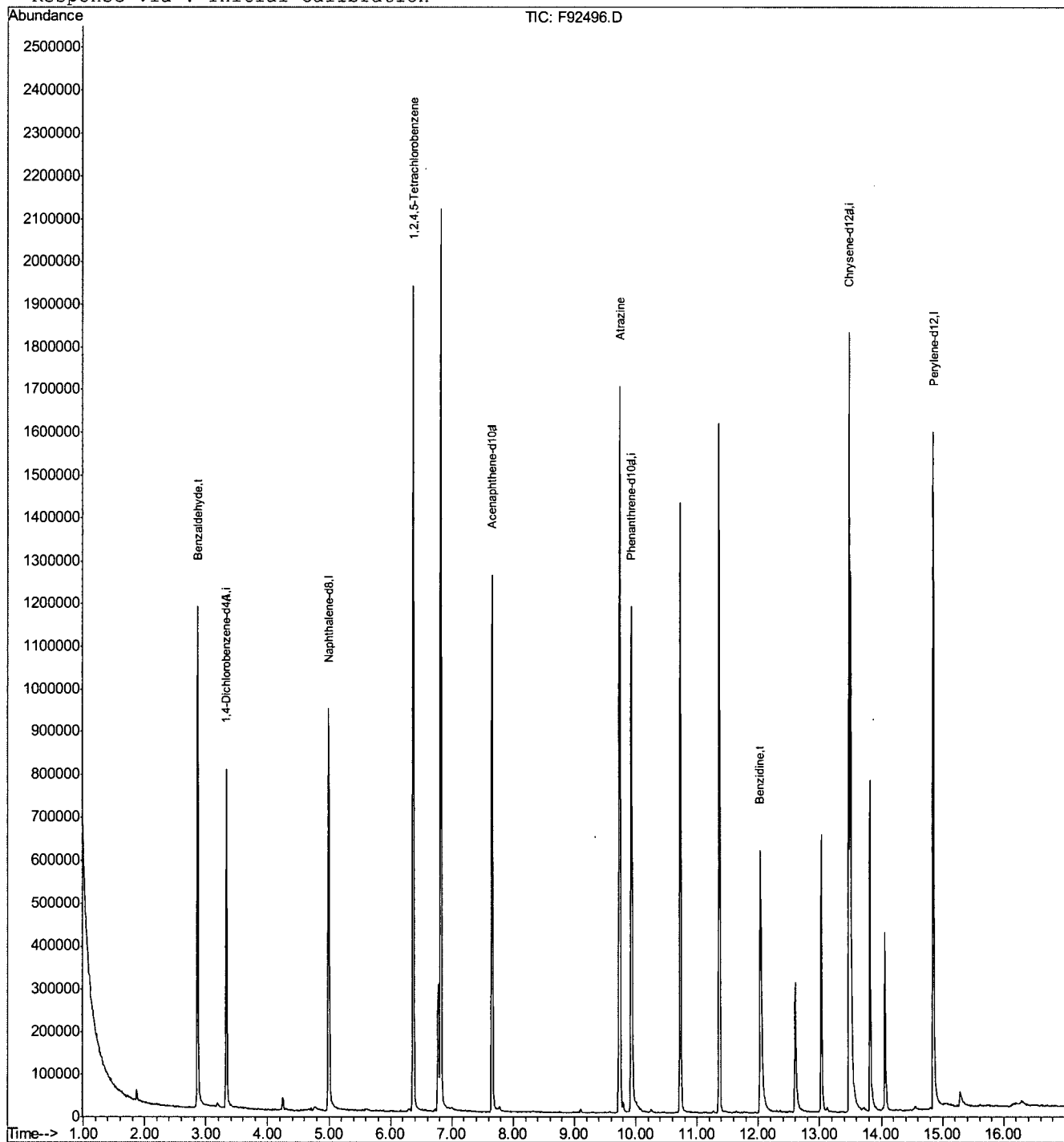
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Wed Oct 20 14:39:46 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92497.D Vial: 10
 Acq On : 20 Oct 2010 4:24 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,bn#1 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:06:21 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:06:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	200787	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	701193	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	423371	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	694811	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	754328	40.00	ppb	0.00
92) Perylene-d12	14.86	264	662445	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	200787	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	423371	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	694811	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	754328	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

						Qvalue
3) Pyridine	1.28	79	386171	49.12	ppb	100
4) N-Nitrosodimethylamine	1.27	74	235304	49.63	ppb	99
11) bis(2-Chloroethyl)ether	3.10	93	351869	49.54	ppb	98
14) 1,3-Dichlorobenzene	3.29	146	412051	51.12	ppb	96
15) 1,4-Dichlorobenzene	3.35	146	392619	50.34	ppb	99
16) Benzyl alcohol	3.55	108	233553	57.45	ppb	100
17) 1,2-Dichlorobenzene	3.57	146	376579	50.75	ppb	98
20) 2,2'-oxybis(1-Chloropropan	3.75	121	109665	52.60	ppb	97
22) n-Nitroso-di-n-propylamine	3.92	70	239854	52.17	ppb	95
23) Hexachloroethane	3.95	201	137969	49.79	ppb	98
26) Nitrobenzene	4.08	123	171852	53.80	ppb	94
28) Isophorone	4.40	82	654940	50.77	ppb	99
32) bis(2-Chloroethoxy)methane	4.77	93	431807	55.52	ppb	99
36) 1,2,4-Trichlorobenzene	4.95	180	337582	50.99	ppb	99
38) Naphthalene	5.02	128	969512	50.51	ppb	98
42) Hexachlorobutadiene	5.33	225	193644	50.38	ppb	99
44) 2-Methylnaphthalene	6.05	142	643458	46.70	ppb	99
48) Hexachlorocyclopentadiene	6.43	237	166148	64.89	ppb	99
52) 2-Chloronaphthalene	6.78	162	652483	50.77	ppb	99
54) 2-Nitroaniline	7.04	65	178782	52.36	ppb	99
55) Dimethylphthalate	7.44	163	657847	46.03	ppb	100
56) Acenaphthylene	7.41	152	964377	47.96	ppb	100
57) 2,6-Dinitrotoluene	7.51	165	145868	52.45	ppb	98
58) 3-Nitroaniline	7.69	138	144690	46.94	ppb	99

(#) = qualifier out of range (m) = manual integration

F92497.D MF4329.M Mon Oct 25 09:41:16 2010 GCMS3A

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92497.D Vial: 10
 Acq On : 20 Oct 2010 4:24 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,bn#1 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:06:21 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:06:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
59) Acenaphthene	7.71	153	600755	58.62	ppb	99
62) Dibenzofuran	7.97	168	893193	50.23	ppb	98
63) 2,4-Dinitrotoluene	8.10	165	193131	51.36	ppb	97
65) Diethylphthalate	8.56	149	613853	47.35	ppb	100
66) Fluorene	8.50	166	730516	49.77	ppb	98
67) 4-Chlorophenyl-phenylether	8.57	204	325720	47.50	ppb	98
68) 4-Nitroaniline	8.66	138	168469	48.42	ppb	97
71) n-Nitrosodiphenylamine	8.78	169	481915	49.62	ppb	100
72) 1,2-Diphenylhydrazine	8.81	77	696451	51.04	ppb	99
74) 4-Bromophenyl-phenylether	9.32	248	217674	51.33	ppb	96
75) Hexachlorobenzene	9.48	284	219540	52.33	ppb	98
77) Phenanthrene	9.97	178	1004105	56.78	ppb	100
78) Anthracene	10.04	178	1077032	50.66	ppb	100
79) Carbazole	10.36	167	994290	52.19	ppb	99
80) Di-n-butylphthalate	11.15	149	1130950	50.91	ppb	100
81) Fluoranthene	11.78	202	1139423	49.05	ppb	99
84) Pyrene	12.05	202	1172515	48.89	ppb	99
86) Butylbenzylphthalate	13.03	149	476232	51.36	ppb	99
88) Benzo[a]anthracene	13.47	228	1068114	49.51	ppb	99
90) Chrysene	13.51	228	1014494	57.82	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.72	149	671228	52.24	ppb	100
93) Di-n-octylphthalate	14.31	149	1178234	55.39	ppb	99
94) Benzo[b]fluoranthene	14.53	252	969215	48.80	ppb	97
95) Benzo[k]fluoranthene	14.56	252	1194432	50.55	ppb	94
96) Benzo[a]pyrene	14.81	252	1056218	53.66	ppb	100
97) Indeno[1,2,3-cd]pyrene	15.82	276	1115648	52.15	ppb	98
99) Dibenz[a,h]anthracene	15.85	278	922869	53.14	ppb	99
101) Benzo[g,h,i]perylene	16.08	276	970349	51.34	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92497.D MF4329.M Mon Oct 25 09:41:16 2010 GCMS3A

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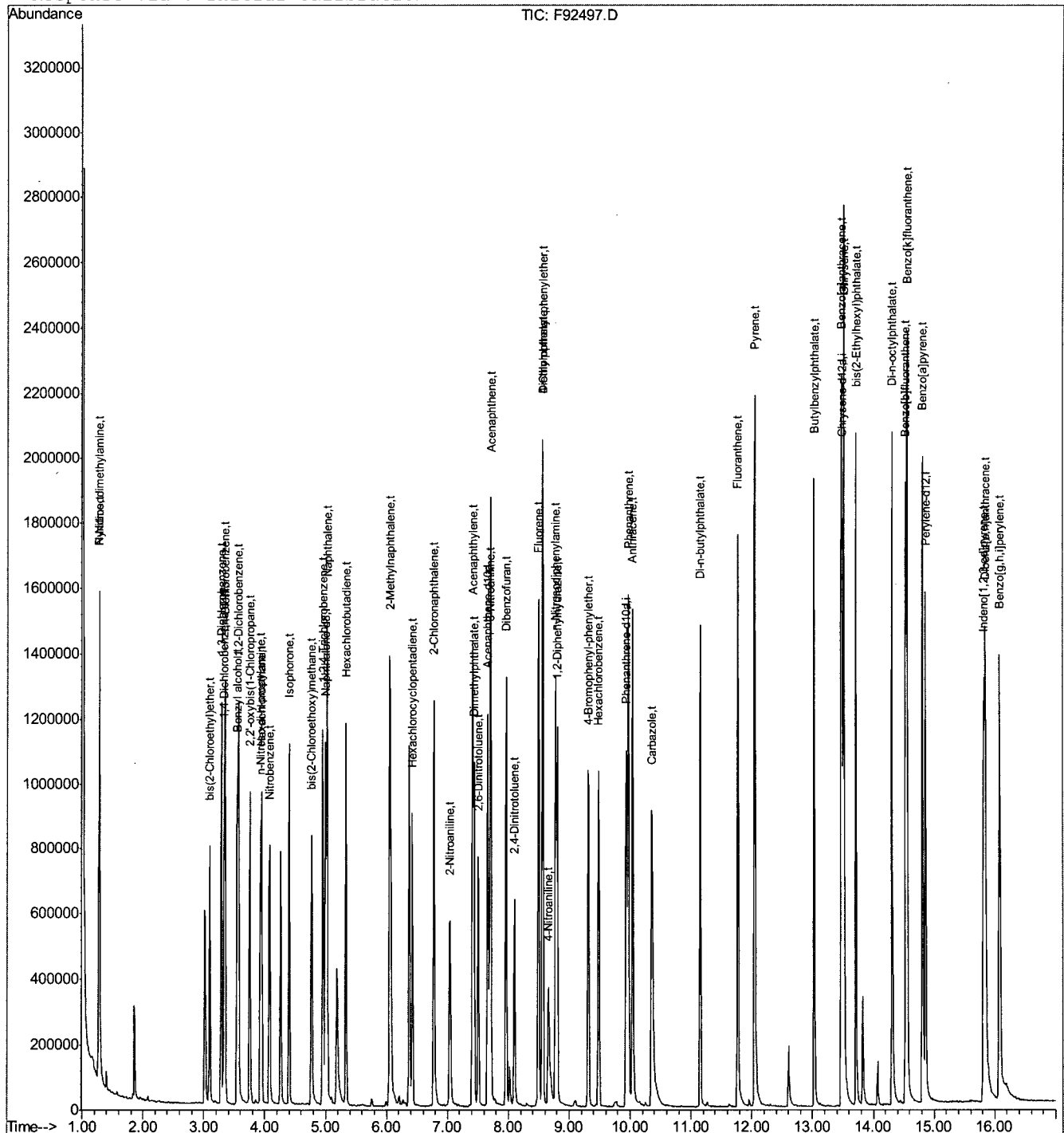
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92497.D
Acq On : 20 Oct 2010 4:24 pm
Sample : icv4329-50
Misc : op46122,ef4330,bn#1 2nd source
MS Integration Params: RTEINT.P
Quant Time: Oct 25 9:41 2010

Vial: 10
Operator: ninap
Inst : MSF
Multiplr: 1.00

Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92497A.D Vial: 10
 Acq On : 20 Oct 2010 4:24 pm Operator: ninap
 Sample : icv4330-50 Inst : MSF
 Misc : op46122,ef4330,bn#1 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:06:21 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:06:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	200787	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	701193	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	423371	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	694811	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	754328	40.00	ppb	0.00
92) Perylene-d12	14.86	264	662445	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	200787	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	423371	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	694811	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	754328	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

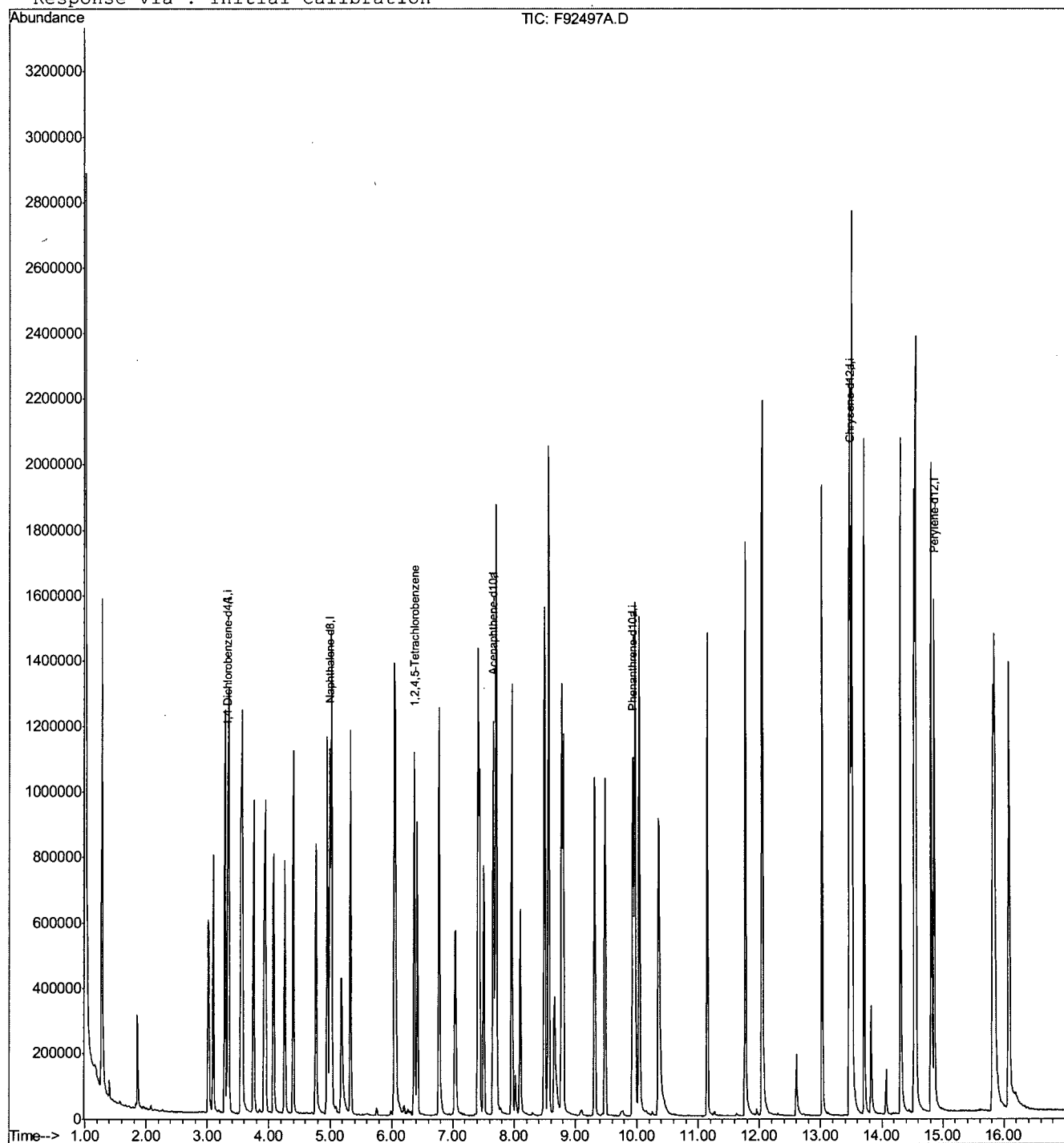
						Qvalue
105) 1,2,4,5-Tetrachlorobenzene	6.38	216	339877	57.80	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92497A.D MF4329.M Mon Oct 25 09:42:44 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92497A.D Vial: 10
Acq On : 20 Oct 2010 4:24 pm Operator: ninap
Sample : icv4330-50 Inst : MSF
Misc : op46122,ef4330,bn#1 2nd source Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 25 9:42 2010 Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92498.D Vial: 11
 Acq On : 20 Oct 2010 4:48 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,bn#2 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:18:56 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:18:54 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	199095	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	613544	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	406594	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	676322	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	738320	40.00	ppb	-0.01
92) Perylene-d12	14.85	264	588270	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	199095	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	406594	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	684944	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	738320	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	154180	46.95	ppb	# 52
6) Indene	3.67	116	497938	51.24	ppb	98
7) Cumene	2.54	105	628982	47.32	ppb	99
13) Decane	3.21	43	423561	55.26	ppb	99
18) Acetophenone	3.87	105	493032	58.29	ppb	99
27) Quinoline	5.52	129	600757	56.99	ppb	99
40) 2,3-Dichloroaniline	6.55	161	317558	52.98	ppb	99
41) Caprolactam	5.63	55	166134	53.31	ppb	97
45) 1-Methylnaphthalene	6.21	142	650259	57.51	ppb	97
46) Dimethylnaphthalene	7.02	156	594593	58.32	ppb	100
53) Biphenyl	6.80	154	817000	55.59	ppb	98
82) Octadecane	10.03	57	487143	59.98	ppb	99
100) 7,12-Dimethylbenz (a) anthra	14.55	256	430328	60.04	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92498.D MF4329.M Fri Oct 22 16:07:56 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92498.D

Vial: 11

Acq On : 20 Oct 2010 4:48 pm

Operator: ninap

Sample : icv4329-50

Inst : MSF

Misc : op46122,ef4330,bn#2 2nd source

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 16:07 2010

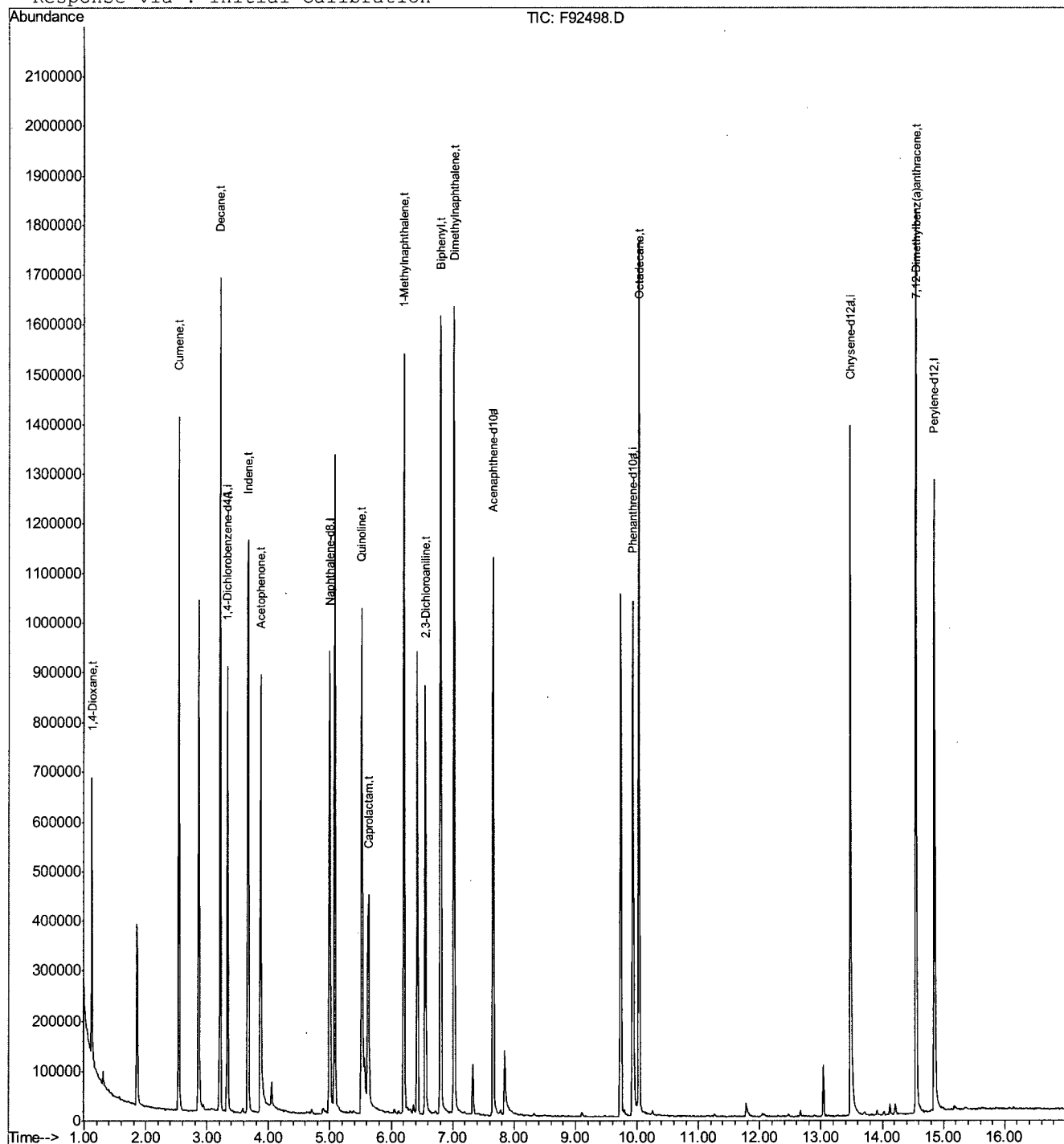
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92498A.D Vial: 11
 Acq On : 20 Oct 2010 4:48 pm Operator: ninap
 Sample : icv4330-50 Inst : MSF
 Misc : op46122,ef4330,bn#2 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:18:56 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:18:54 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	199095	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	613544	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	406594	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	676322	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	738320	40.00	ppb	-0.01
92) Perylene-d12	14.85	264	588270	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.33	152	199095	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	406594	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	684944	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	738320	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

103) Benzaldehyde	2.86	105	278079	59.73	ppb	Qvalue # 100
107) Atrazine	9.74	200	192391	59.83	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92498A.D MF4329.M Fri Oct 22 16:07:15 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92498A.D

Vial: 11

Acq On : 20 Oct 2010 4:48 pm

Operator: ninap

Sample : icv4330-50

Inst : MSF

Misc : op46122,ef4330,bn#2 2nd source

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 16:07 2010

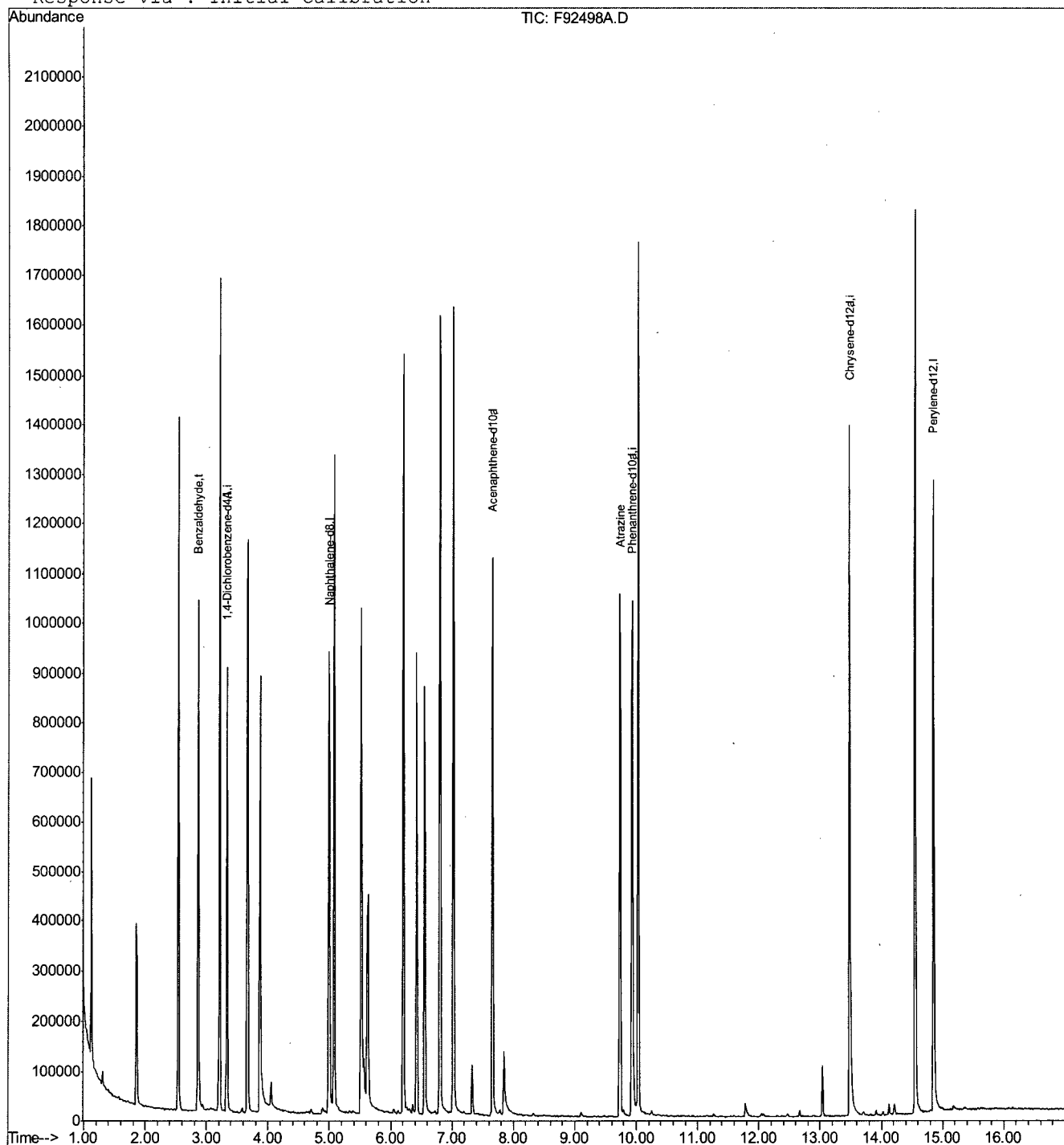
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92499.D Vial: 12
 Acq On : 20 Oct 2010 5:13 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,acid 2nd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:20:49 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	212584	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	733916	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	433249	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	724817	40.00	ppb	-0.01
83) Chrysene-d12	13.48	240	789455	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	662168	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	212584	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	433249	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	730143	40.00	ppb	-0.01
108) Chrysene-d12a	13.48	240	789455	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
9) Phenol	3.03	94	456417	50.09	ppb	84
12) 2-Chlorophenol	3.13	128	354024	51.85	ppb	99
19) 2-Methylphenol	3.73	108	301063	51.14	ppb	99
21) 3&4-Methylphenol	3.92	108	340894	57.41	ppb	98
29) 2-Nitrophenol	4.51	139	172553	54.04	ppb	# 77
30) 2,4-Dimethylphenol	4.64	107	308025	53.50	ppb	95
31) Benzoic acid	4.86	105	235725	52.21	ppb	94
33) 2,4-Dichlorophenol	4.85	162	285824	49.44	ppb	99
34) 2,6-Dichlorophenol	5.18	162	303300	53.50	ppb	99
43) 4-Chloro-3-methylphenol	5.97	107	269402	48.36	ppb	83
49) 2,4,6-Trichlorophenol	6.56	196	209256	51.22	ppb	99
50) 2,4,5-Trichlorophenol	6.61	196	242632	53.04	ppb	99
60) 2,4-Dinitrophenol	7.85	184	55751	41.08	ppb	95
61) 4-Nitrophenol	8.05	109	60749	40.62	ppb	97
64) 2,3,4,6-Tetrachlorophenol	8.26	232	180531	47.38	ppb	# 19
70) 4,6-Dinitro-2-methylphenol	8.71	198	103605	43.17	ppb	# 99
76) Pentachlorophenol	9.79	266	141318	54.99	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92499.D MF4329.M Thu Oct 21 12:22:08 2010 GCMS3A

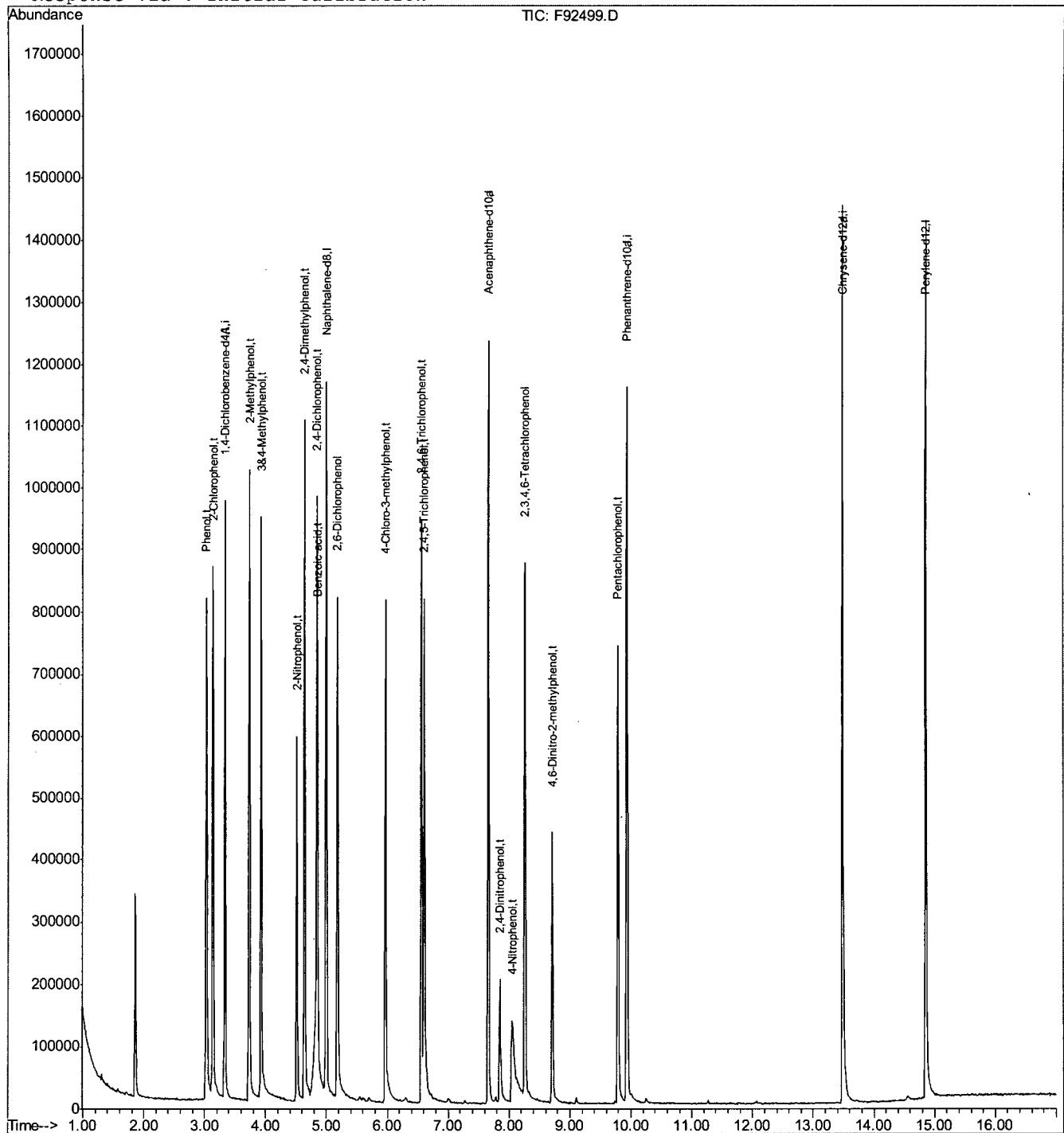
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92499.D
Acq On : 20 Oct 2010 5:13 pm
Sample : icv4329-50
Misc : op46122,ef4330,acid 2nd source
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:21 2010

Vial: 12
Operator: ninap
Inst : MSF
Multiplr: 1.00

Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
Last Update : Thu Oct 21 12:17:18 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92500.D Vial: 13
 Acq On : 20 Oct 2010 5:37 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,3rd source Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:22:26 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	292350	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	1063419	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	626421	40.00	ppb	0.00
69) Phenanthrene-d10	9.94	188	1101402	40.00	ppb	0.00
83) Chrysene-d12	13.49	240	1225626	40.00	ppb	-0.01
92) Perylene-d12	14.86	264	1016964	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	3.33	152	292350	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	626421	40.00	ppb	0.00
106) Phenanthrene-d10a	9.94	188	1108448	40.00	ppb	0.00
108) Chrysene-d12a	13.49	240	1225626	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
10) Aniline	3.02	93	738620	53.87	ppb	73
39) 4-Chloroaniline	5.18	127	596897	50.59	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92500.D MF4329.M Thu Oct 21 12:23:16 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330\F92500.D

Vial: 13

Acq On : 20 Oct 2010 5:37 pm

Operator: ninap

Sample : icv4329-50

Inst : MSF

Misc : op46122,ef4330,3rd source

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 12:23 2010

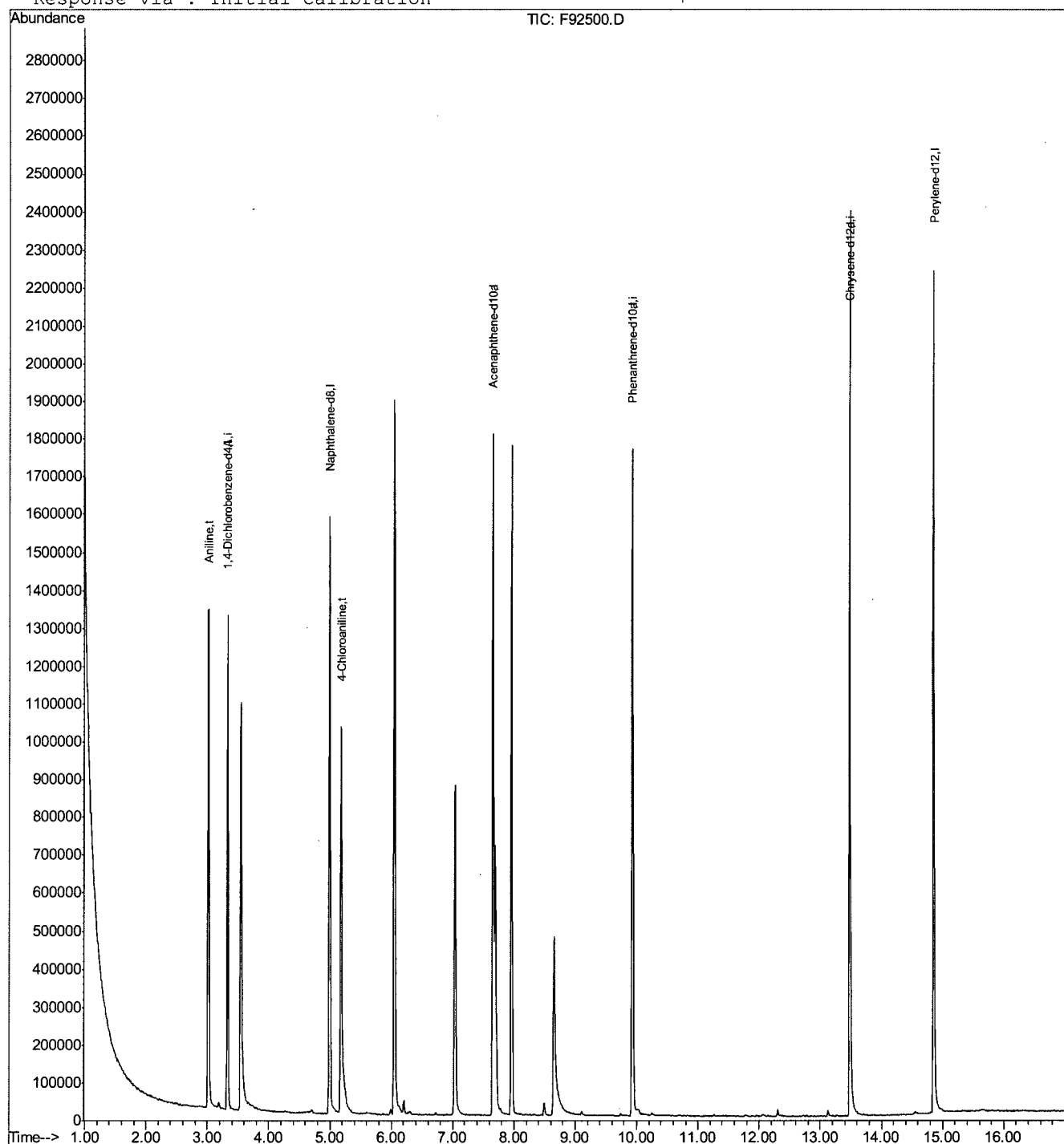
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92501.D Vial: 14
 Acq On : 20 Oct 2010 6:01 pm Operator: ninap
 Sample : icv4329-50 Inst : MSF
 Misc : op46122,ef4330,3rd source,benzidine Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:24:28 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	213160	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	754264	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	492151	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	855931	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	936991	40.00	ppb	-0.01
92) Perylene-d12	14.85	264	791102	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	212924	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	492151	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	855931	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	936991	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
89) 3,3'-Dichlorobenzidine	13.51	252	457977	49.87	ppb	Qvalue 98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92501.D MF4329.M Fri Oct 22 16:11:35 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92501.D

Vial: 14

Acq On : 20 Oct 2010 6:01 pm

Operator: ninap

Sample : icv4329-50

Inst : MSF

Misc : op46122,ef4330,3rd source,benzidine

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 16:11 2010

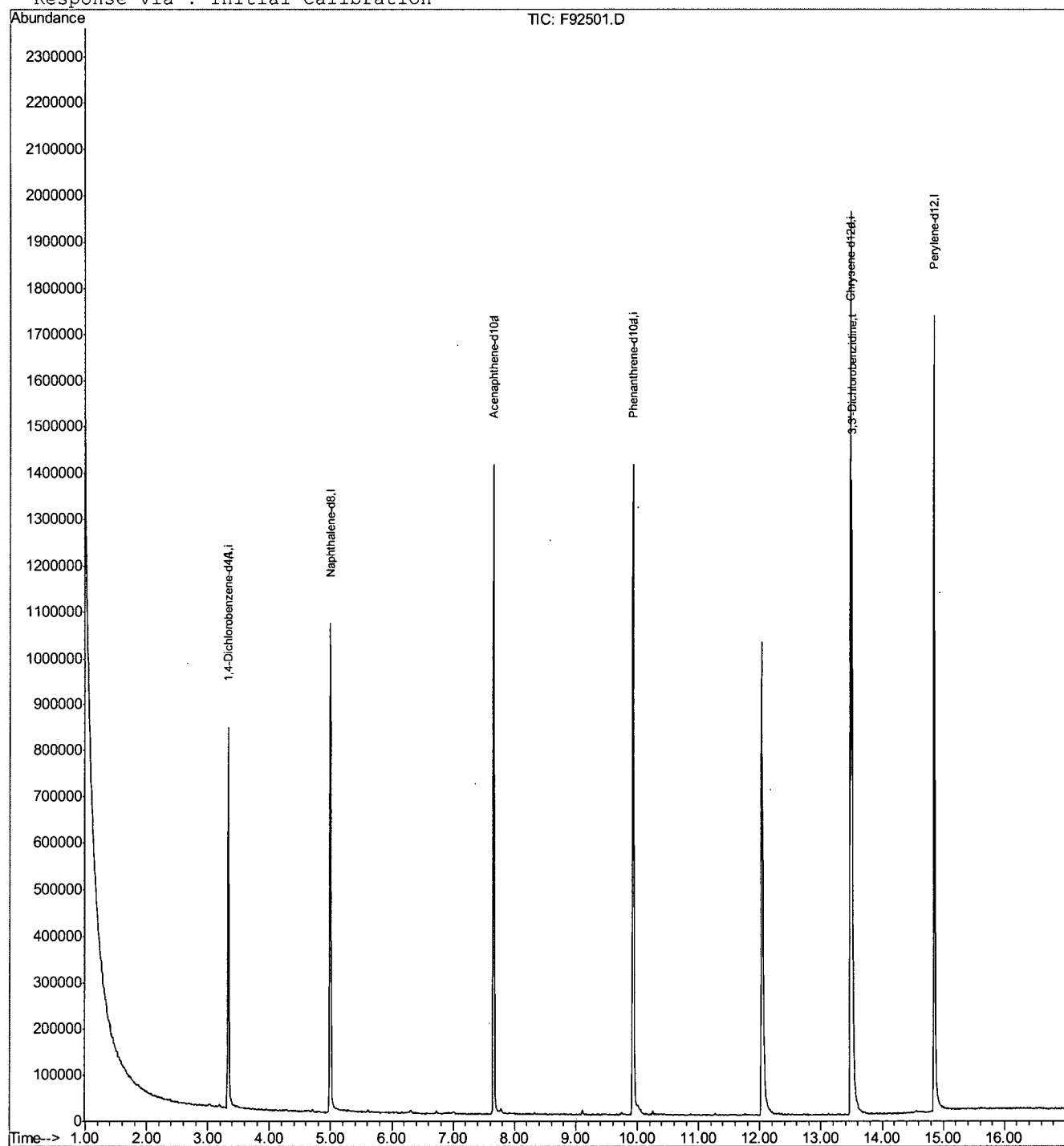
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92501A.D Vial: 14
 Acq On : 20 Oct 2010 6:01 pm Operator: ninap
 Sample : icv4330-50 Inst : MSF
 Misc : op46122,ef4330,3rd source,benzidine Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 12:24:28 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	213160	40.00	ppb	0.00
24) Naphthalene-d8	5.00	136	754264	40.00	ppb	0.00
47) Acenaphthene-d10	7.66	164	492151	40.00	ppb	0.00
69) Phenanthrene-d10	9.93	188	855931	40.00	ppb	-0.01
83) Chrysene-d12	13.49	240	936991	40.00	ppb	-0.01
92) Perylene-d12	14.85	264	791102	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	212924	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	492151	40.00	ppb	0.00
106) Phenanthrene-d10a	9.93	188	855931	40.00	ppb	-0.01
108) Chrysene-d12a	13.49	240	936991	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
109) Benzidine	12.04	184	863512	78.77	ppb	100

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92501A.D MF4329.M Fri Oct 22 16:12:17 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4330D\F92501A.D

Vial: 14

Acq On : 20 Oct 2010 6:01 pm

Operator: ninap

Sample : icv4330-50

Inst : MSF

Misc : op46122,ef4330,3rd source,benzidine

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 16:12 2010

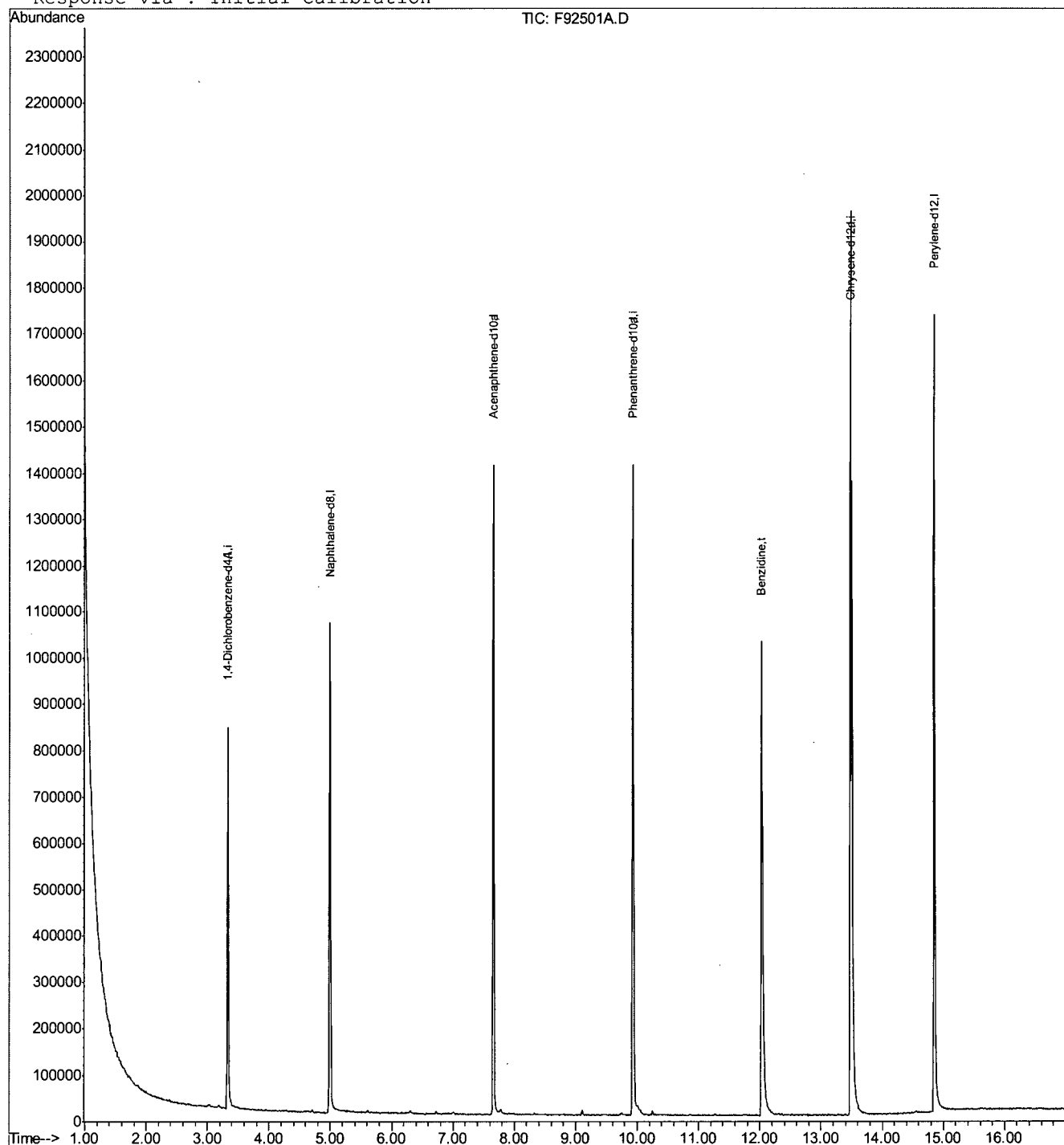
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92522.D

Vial: 2

Acq On : 21 Oct 2010 3:26 pm

Operator: ninap

Sample : cc4329-25

Inst : MSF

Misc : op46122,ef4333

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 15:43:20 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	240985	40.00	ppb	0.00
24) Naphthalene-d8	4.99	136	864614	40.00	ppb	-0.01
47) Acenaphthene-d10	7.66	164	549746	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	949788	40.00	ppb	-0.01
83) Chrysene-d12	13.48	240	1032893	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	866476	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	240985	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	549746	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	949788	40.00	ppb	-0.01
108) Chrysene-d12a	13.48	240	1032893	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.11	112	198486	25.26	ppb	0.00
Spiked Amount	50.000		Recovery	=	50.52%	
8) Phenol-d5	3.01	99	247182	25.92	ppb	0.00
Spiked Amount	50.000		Recovery	=	51.84%	
25) Nitrobenzene-d5	4.05	82	208416	24.40	ppb	0.00
Spiked Amount	50.000		Recovery	=	48.80%	
51) 2-Fluorobiphenyl	6.69	172	463188	23.58	ppb	-0.01
Spiked Amount	50.000		Recovery	=	47.16%	
73) 2,4,6-Tribromophenol	8.90	330	60376	26.39	ppb	-0.02
Spiked Amount	50.000		Recovery	=	52.78%	
85) Terphenyl-d14	12.35	244	493843	23.54	ppb	-0.01
Spiked Amount	50.000		Recovery	=	47.08%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.12	88	90557	22.78	ppb	95
3) Pyridine	1.29	79	213383	22.62	ppb	99
4) N-Nitrosodimethylamine	1.27	74	133808	23.52	ppb	94
6) Indene	3.66	116	290471	24.69	ppb	98
7) Cumene	2.54	105	395174	24.56	ppb	99
9) Phenol	3.02	94	265714	25.73	ppb	79
10) Aniline	3.02	93	272684	24.13	ppb	99
11) bis(2-Chloroethyl)ether	3.10	93	200811	23.55	ppb	99
12) 2-Chlorophenol	3.13	128	196329	25.36	ppb	99
13) Decane	3.21	43	235517	25.39	ppb	96
14) 1,3-Dichlorobenzene	3.28	146	233156	24.10	ppb	99
15) 1,4-Dichlorobenzene	3.35	146	222271	23.74	ppb	99
16) Benzyl alcohol	3.54	108	129292	26.50	ppb	97
17) 1,2-Dichlorobenzene	3.57	146	215106	24.15	ppb	98
18) Acetophenone	3.86	105	254145	24.82	ppb	98
19) 2-Methylphenol	3.73	108	170643	25.57	ppb	98
20) 2,2'-oxybis(1-Chloropropan	3.75	121	62708	25.06	ppb	92
21) 3&4-Methylphenol	3.92	108	173076	24.40	ppb	99
22) n-Nitroso-di-n-propylamine	3.92	70	138247	25.05	ppb	97
23) Hexachloroethane	3.94	201	80064	24.07	ppb	99
26) Nitrobenzene	4.07	123	97604	24.78	ppb	98
27) Quinoline	5.52	129	363757	24.49	ppb	98
28) Isophorone	4.40	82	384673	24.19	ppb	98
29) 2-Nitrophenol	4.51	139	101948	27.10	ppb	93

(#)=qualifier out of range (m)=manual integration

F92522.D MF4329.M

Fri Oct 22 07:24:47 2010

GCMS3A

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92522.D

Vial: 2

Acq On : 21 Oct 2010 3:26 pm

Operator: ninap

Sample : cc4329-25

Inst : MSF

Misc : op46122,ef4333

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 21 15:43:20 2010

Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration

DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) 2,4-Dimethylphenol	4.63	107	167079	24.63	ppb	99
31) Benzoic acid	4.82	105	147109	29.84	ppb	93
32) bis(2-Chloroethoxy)methane	4.77	93	237555	24.77	ppb	99
33) 2,4-Dichlorophenol	4.84	162	166938	24.51	ppb	99
34) 2,6-Dichlorophenol	5.18	162	165377	24.76	ppb	97
35) 1,3,5-Trichlorobenzene	4.52	180	200591	24.68	ppb	99
36) 1,2,4-Trichlorobenzene	4.95	180	198124	24.27	ppb	99
37) 1,2,3-Trichlorobenzene	5.29	180	189993	23.79	ppb	98
38) Naphthalene	5.02	128	564395	23.84	ppb	99
39) 4-Chloroaniline	5.18	127	235528	24.55	ppb	99
40) 2,3-Dichloroaniline	6.55	161	200884	23.78	ppb	100
41) Caprolactam	5.64	55	103522	23.57	ppb	99
42) Hexachlorobutadiene	5.33	225	111038	23.43	ppb	98
43) 4-Chloro-3-methylphenol	5.97	107	170519	25.98	ppb	89
44) 2-Methylnaphthalene	6.05	142	405124	23.85	ppb	99
45) 1-Methylnaphthalene	6.20	142	379045	23.79	ppb	99
46) Dimethylnaphthalene	7.02	156	346732	24.13	ppb	100
48) Hexachlorocyclopentadiene	6.42	237	184555	55.51	ppb	100
49) 2,4,6-Trichlorophenol	6.56	196	133008	25.66	ppb	97
50) 2,4,5-Trichlorophenol	6.61	196	146935	25.31	ppb	96
52) 2-Chloronaphthalene	6.78	162	394464	23.64	ppb	98
53) Biphenyl	6.80	154	467550	23.53	ppb	99
54) 2-Nitroaniline	7.03	65	111919	25.24	ppb	99
55) Dimethylphthalate	7.43	163	429907	23.17	ppb	99
56) Acenaphthylene	7.41	152	643271	24.63	ppb	99
57) 2,6-Dinitrotoluene	7.50	165	96396	26.69	ppb	93
58) 3-Nitroaniline	7.69	138	103213	25.79	ppb	96
59) Acenaphthene	7.71	153	367205	26.32	ppb	100
60) 2,4-Dinitrophenol	7.84	184	94176	51.55	ppb	92
61) 4-Nitrophenol	8.05	109	42134	22.21	ppb	97
62) Dibenzofuran	7.96	168	565627	24.49	ppb	98
63) 2,4-Dinitrotoluene	8.09	165	130387	26.70	ppb	98
64) 2,3,4,6-Tetrachlorophenol	8.26	232	125667	25.99	ppb	# 18
65) Diethylphthalate	8.56	149	402763	23.93	ppb	99
66) Fluorene	8.49	166	449673	23.59	ppb	98
67) 4-Chlorophenyl-phenylether	8.56	204	213217	23.95	ppb	96
68) 4-Nitroaniline	8.65	138	104434	23.12	ppb	96
70) 4,6-Dinitro-2-methylphenol	8.71	198	77081	26.11	ppb	# 100
71) n-Nitrosodiphenylamine	8.77	169	317093	23.88	ppb	100
72) 1,2-Diphenylhydrazine	8.80	77	433053	23.22	ppb	97
74) 4-Bromophenyl-phenylether	9.31	248	136355	23.52	ppb	99
75) Hexachlorobenzene	9.48	284	141797	24.73	ppb	98
76) Pentachlorophenol	9.79	266	190757	56.64	ppb	98
77) Phenanthrene	9.97	178	627441	25.12	ppb	99
78) Anthracene	10.03	178	620156	25.36	ppb	99
79) Carbazole	10.35	167	588919	22.61	ppb	100
80) Di-n-butylphthalate	11.15	149	736443	24.25	ppb	99
81) Fluoranthene	11.77	202	730896	23.02	ppb	99
82) Octadecane	10.03	57	278633	24.43	ppb	97

(#) = qualifier out of range (m) = manual integration

F92522.D MF4329.M

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GCMS3A

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92522.D Vial: 2
 Acq On : 21 Oct 2010 3:26 pm Operator: ninap
 Sample : cc4329-25 Inst : MSF
 Misc : op46122,ef4333 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 15:43:20 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) Pyrene	12.04	202	756218	23.03	ppb	99
86) Butylbenzylphthalate	13.02	149	317710	25.02	ppb	97
87) Butyl stearate	13.12	56	222696	24.26	ppb	99
88) Benzo[a]anthracene	13.46	228	691158	23.40	ppb	99
89) 3,3'-Dichlorobenzidine	13.51	252	250909	24.78	ppb	99
90) Chrysene	13.51	228	642573	25.65	ppb	99
91) bis(2-Ethylhexyl)phthalate	13.71	149	450132	25.59	ppb	99
93) Di-n-octylphthalate	14.30	149	775741	27.88	ppb	99
94) Benzo[b]fluoranthene	14.53	252	705930	27.17	ppb	99
95) Benzo[k]fluoranthene	14.55	252	675608	22.71	ppb	98
96) Benzo[a]pyrene	14.80	252	665484	25.85	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.80	276	738838	26.40	ppb	98
98) Dibenz(a,h)acridine	15.60	279	539414	27.04	ppb	100
99) Dibenz[a,h]anthracene	15.83	278	603024	26.55	ppb	99
100) 7,12-Dimethylbenz(a)anthra	14.55	256	266924	25.29	ppb	99
101) Benzo[g,h,i]perylene	16.06	276	629976	25.48	ppb	99

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92522.D MF4329.M Fri Oct 22 07:24:48 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92523.D Vial: 3
 Acq On : 21 Oct 2010 3:50 pm Operator: ninap
 Sample : cc4330-25 Inst : MSF
 Misc : op46122,ef4333 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Oct 21 16:07:25 2010 Quant Results File: MF4329.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um
 Last Update : Thu Oct 21 12:17:18 2010
 Response via : Initial Calibration
 DataAcq Meth : MF4329

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.33	152	233797	40.00	ppb	0.00
24) Naphthalene-d8	4.99	136	840618	40.00	ppb	-0.01
47) Acenaphthene-d10	7.66	164	554750	40.00	ppb	-0.01
69) Phenanthrene-d10	9.93	188	946628	40.00	ppb	-0.02
83) Chrysene-d12	13.48	240	1064191	40.00	ppb	-0.02
92) Perylene-d12	14.85	264	910492	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	3.33	152	233797	40.00	ppb	0.00
104) Acenaphthene-d10a	7.66	164	554750	40.00	ppb	-0.01
106) Phenanthrene-d10a	9.93	188	946628	40.00	ppb	-0.02
108) Chrysene-d12a	13.48	240	1064191	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	2.86	105	125775	23.01	ppb	Qvalue # 100
105) 1,2,4,5-Tetrachlorobenzene	6.37	216	210810	27.36	ppb	# 99
107) Atrazine	9.73	200	126392	28.44	ppb	# 100
109) Benzdine	12.03	184	377231	30.30	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 F92523.D MF4329.M Fri Oct 22 07:25:22 2010 GCMS3A

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF4333\F92523.D

Vial: 3

Acq On : 21 Oct 2010 3:50 pm

Operator: ninap

Sample : cc4330-25

Inst : MSF

Misc : op46122,ef4333

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Oct 22 7:25 2010

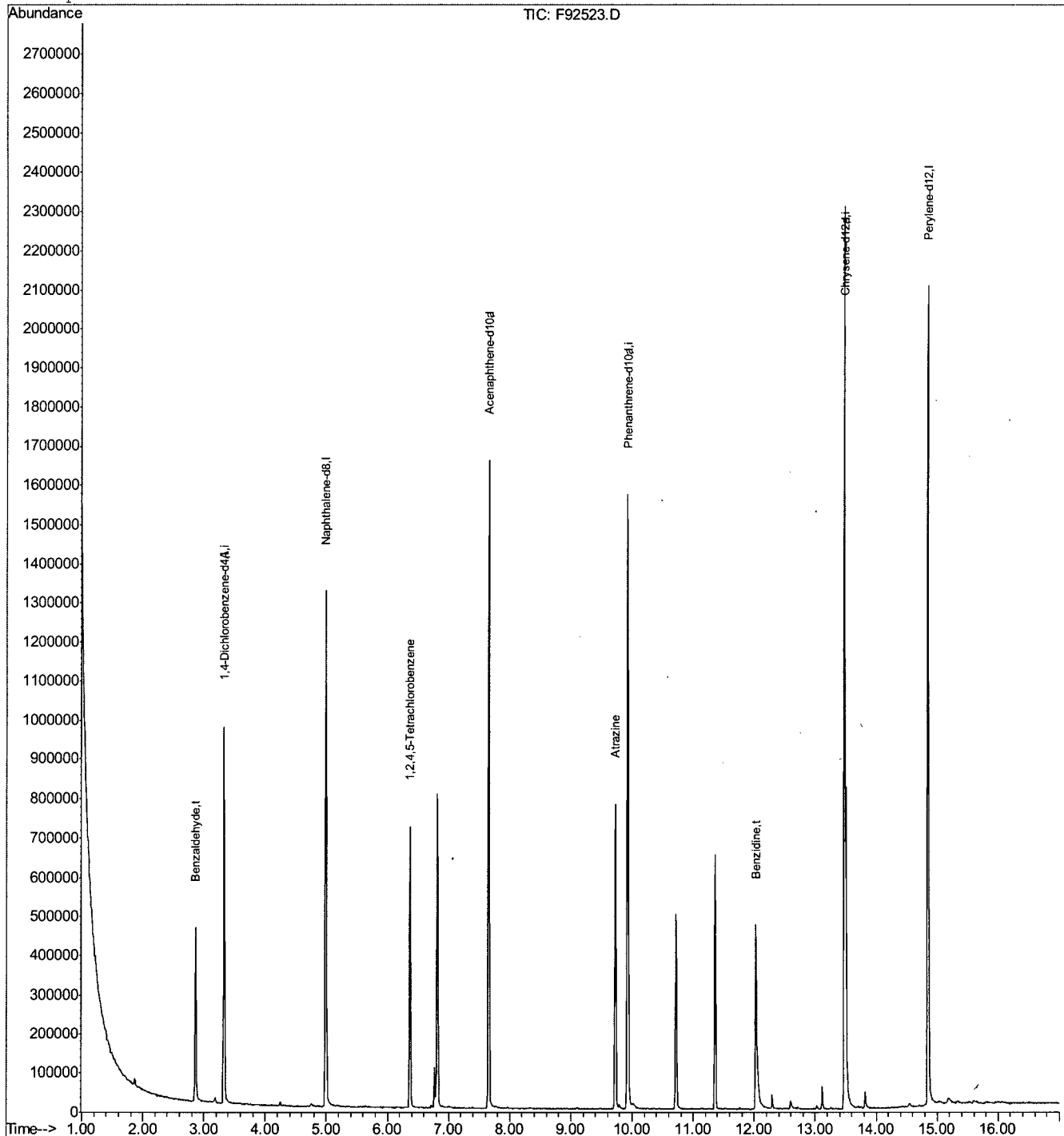
Quant Results File: MF4329.RES

Method : C:\MSDCHEM\1\METHODS\MF4329.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MSi 15m x .25mm x .25um

Last Update : Thu Oct 21 12:17:18 2010

Response via : Initial Calibration



Batch ID: E3P27

Analyst Signature: [Signature]

Date: 10-25-10

Standard Data

Lot #	Description	Conc.
Sub 521-01	BNA	1000
Sub 521-02		1000
Sub 521-03		1000
Sub 521-04		1000
Sub 521-05	✓	1000
Sub 521-06		1000

Standard Data

Lot #	Description	Conc.
Sub 521-07	DF-100	1000
Sub 521-08	BNA	1000
Sub 521-09		1000
Sub 521-10		1000
Sub 521-11		1000
Sub 521-12		1000

Columns: HP-5MS 30m x 0.25mm x 0.25um

Method: 922/1025

Initial Cal. Method: M3P01

Injection Volume: 1.0ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10-25-10

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	575	DF-100			W	1					OK	
	576	K21-50			W	2					OK	
	577	K21-100			W	3					OK	
	578	K21-1			W	4					OK	
	579	K21-50			W	5					OK	
	580	K21-5			W	6					OK	
	581	K21-25			W	7					OK	
	582	K21-2			W	8					OK	
	583	K21-70			W	9					OK	

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

95

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

Date: 10-25-70

Analyst Signature: JP

Standard Data

Standard Data

Lot #	Description	Conc.
SW052147A	10042	1/24449
SW052147B		2/24449
SW052147C		3/24449
SW052147D		4/24449
SW052147E	✓	5/24449
SW052147F		6/24449

Lot #	Description	Conc.
SW052147	DF70P	5/24449
SW052147G	10042	2/24449
SW052147H	+	1/24449
DC597	10042	—
CF005	10042	4/24449

Columns: AP-5MSi 30m x 0.25mm x 0.25mm

Method: 620/621

Initial Cal. Method: 1/SP27

Injection Volume: 1.0ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10-26-70

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
37593	DF70P			W	1					OK	5:03pm
594	IC08-100				2					OK	
595	IC08-80				3					OK	
596	IC08-50				4					OK	
597	IC08-25				5					OK	
598	IC08-10				6					OK	
599	IC08-5				7					OK	
600	IC08-2				8					OK	
601	IC08-1				9					OK	calibration level not needed!
602	ICV07-50		acid		10					OK	0710-420-142
603	ICV07-50		BN#1		11					OK	0710-420-143
604	ICV07-50		BN#2		12					OK	0710-420-140
605	ICV07-50		aniline		13					OK	SV10-521-85
606	ICV07-50		benzene		14					OK	SV10-521-88

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

99

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

Batch ID: E3P29

Date: 10-16-10

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
6042743	BU 2nd source	Supp

Standard Data

Lot #	Description	Conc.
60452467	DEFIN	Supp
604521-50	BUA	Supp
604521-97	KUW	Supp
604527	Adel. Honywood	
604528	h+SM	400ppm

Columns: LP-500 30m x 2mm x 2.1mm

Method: 6220/1025

Initial Cal. Method: 1/3/27

Injection Volume: 1.0

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10-27-10

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	3P607	DEFIN			W	1					OK	8.56g
	608	6027-50			W	2					OK	
	609	6028-50			W	3					OK	
	610	6028-50			W	4					OK	
	611	CP46340-MBI	46340-1	768070	W	5		+	-	-	OK	
	612	CP46340-TS1				6			-	-	OK	
	613	2A59553-1		2700 + WDMA		7		✓	-	-	OK	
	614	-2				8		✓	-	-	OK	
	615	-3				9		✓	-	-	OK	
	616	CP46332-MBI	46332-1	AS 6020	S	10			-	-	OK	
	617	CP46332-TS1				11			-	-	OK	
	618	2A59584-1		AD 700		12		✓	-	-	OK	FR 1.5
	619	-1				13	5	✓	-	-	OK	
	620	CP46340-MBI	46340-1	8420	W	14		✓	-	-	OK	Not using Run for blend
	621	CP46340-MBI				15		✓	-	-	OK	
	622	2A595003	46332-1	AD 700 + WDMA	S	16		✓	-	-	OK	
	623	CP46332-MBI		AD 700		17		✓	-	-	OK	

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

101

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

Date: 11-01-10 15-070

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
81052147	DETA	Supply
81052148	DETA	Supply
81052149	DETA	Supply
81547	100% Hexane	
CFHIS	100% Hexane	4000ppm

Columns: HP5MS 30m x 2mm x 25um

Method: 6270/625

Initial Cal. Method: 13727

Injection Volume: 1.02

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 11/2/10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
3P652	DETA			W	1					ck	10:03am
653	CC27-SU			W	2					ck	
654	CC28-SU			W	3					ck	
655	CP46385-7B2	46385-2	ASTCUP	W	4					ck	
656	CP46385-1B3				5					ck	
657	CP46385-1B4	46385-2			6					ck	
658	CP46385-1B2				7					ck	
659	2A55157-1				8					ck	
700	CP46385-1B5	46385-1	DETA	W	9					ck	
701	CP46385-1B6				10					ck	
702	2A55356-1		Reprint		11		+	ck		ck	Re Internal
703	-2				12		+	ck		ck	Re Internal
704	2A55457-1		Reprint		13		+	ck		ck	Re Internal
705	2A55500-3	46332-1	ASTCUP + trace	S	14		x			ck	
706	CP46332-1B5				15					ck	
707	CP46332-1B6				16					ck	
708	2A55265-1	46385-2	ASTCUP	W	17					ck	

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Sample volume/weight used and final volumes refer to extraction log.

115

All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3P33

Analyst Signature:

Standard Data

[illegible]

Standard Data

Lot #	Description	Conc.
MS47	Methyl Manganese	—
CP255	ht Sa	999999

Columns: HP-5MS 30m x 0.25mm x 0.25mm

Method 8270/425

Initial Cal. Method *13P27*

Injection Volume: 1.0

Annually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 11-01-10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
3D705	2A59264-2	46355-2	ATK-2	W	16		-	-	-	OK	
710	2A59225-1	46351-2			19		-	-	-	OK	
711	2A59246-1				20		OK	-	-	OK	Re blend
712	2A58139-GR	46245-1	27cut	S	21	2	OK	OK	-	Not using	Re blend
713	2A59265	46332-1	214	S	22		OK	OK	-	OK	Re blend ^{IS 11-27-10}
714	2A59322-1		ATK-11		23		OK	OK	-	OK	Re blend R21.5

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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11 strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Prm: OR015-05

Rev. Date: 1/16/2006

Date: 11-02-70

Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
80052167	DF TMS	Supp
80052160	DUA	Supp
80052197	11642	Supp
8774	10017 Hargraves	
CTOS	ht 502	4000ppm

Columns: MP-SAS 30m x 2.1mm i.d.

Method: 8220/625

Initial Cal. Method: 43227

Injection Volume: 1.0

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 11-02-70

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	3P 715	DF TMS			W	1					OK	10:2349
	716	CC22-X			W	2					OK	
	717	CC24-SD			W	3					OK	
	718	OP46463-MN	OP46463-1	REACTO	W	4		+	-	-	OK	
	719	OP46463-TS1				5		-	-	-	OK	Maple product was tested by GC/MS
	720	HA60204-1		REUT + 14 days in air		6		+	-	-	OK	
	721	-2				7		+	-	-	OK	
	722	-3				8		+	-	-	OK	
	723	-4				9		+	-	-	OK	
R	724	HA55145-GRS	46245-1	REUT	S	10	2		-	-	OK	
	725	OP46463-MS	46463-1	REACTO	W	11			-	-	OK	
	726	OP46463-MN				12			-	-	OK	
R	727	HA55145-1	46351-2	ASTCUP	W	13			-	-	OK	
	728	HA55145-1	46332-1	ASTCUP + BAO thaline	S	14			-	-	OK	
	729	-7				15			-	-	OK	
	730	-8				16			-	-	OK	
	731	-9				17			-	-	OK	

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Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006



Batch ID: E3934

Date: 11-22-70

Analyst Signature: _____

Standard Data

Standard Data

[illegible]

Lot #	Description	Conc.
18774	101-Hornguard	—
18785	ht soil	400000

Columns: $\frac{1}{2}$ 545 $2\frac{1}{2} \times 2\frac{1}{2}$

Method 5214/6X

Initial Cal. Method: 1327

Injection Volume: 1.42

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 11-07-10

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
3P 732	24550012	4163321	ASTM C 1184 1 line	S	16			✓	✓	OK	
733	-14				17			✓	✓	OK	
734	-2				20			✓	✓	OK	
735	-4				21			✓	✓	OK	
736	10				22			✓	✓	OK	
737	-11				23			✓	✓	OK	
2 738	24553221		ASTM C 1184		24	5	5.6	✓	-	OK	Re-test 33.50

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

121

All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006



Batch ID: EF4329

Date: 10/26/10

Analyst Signature: [Signature]

Standard Data

[illegible]

Lot #	Description	Conc.
Gr10521-67	DF-1PP	50 ppm
CF0915	J.S.	100 ppm
DC433	Mech. (Koneywell)	

Columns: 2ASms; C15mv. 25mmx. 25cm

Method 8270 / 625

Initial Cal. Method MF4329

Injection Volume: 1 cc

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10/21/10

[illegible]

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

141

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

cv. Date: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EF4333

Date: 10/21/10

Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
3310-D147	DF4PP	50ppm
-90	ABA 510	20ppm
-93	T1242	20ppm
CE0915	IS	600ppm
D1547	Methyl Hexanone	100ppm

Columns: 2mm i.d. x 25mm x 25mm

Method: B270/625

Initial Cal. Method: MF4329

Injection Volume: 1.0ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 10/22/10

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	F92518	DF4PP				1					all	12:42 PM
	F92519	CL4329-25				2					all	not using gap
	F92520	CL4330-25		T1242		3					all	bet ^m check & sample
	F92521	DF4PP				1					all	3:14 PM
	F92522	CL4329-25				2					all	
	F92523	CL4330-25		T1242		3					all	
	92524	OP46278-MS				4			✓	✓	all	
	92525	-BS1				5			✓	✓	all	
	92526	JA59086-1		ABWKL+		6			✓	✓	all	
	92527	OP46278-MS		AB8210		7			✓	✓	all	OP46278A-MS
	92528	-HSD				8			✓	✓	all	-MSD
	92529	JA59154-2		ABTLL11		9			✓	✓	all	RR 1:4
	92530	-4				10			✓	✓	all	
	92531	-6				11			✓	✓	all	
	92532	-8				12			✓	✓	all	
	92533	-10				13			✓	✓	all	
	92534	JA58900-5		ABPTLL11 +BACD+aniline		14			✓	✓	all	run before F92526

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Sample volume/weight used and final volumes refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006

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Batch ID: EF4333

Date: 10-21-4010

Analyst Signature: JP

[illegible]

Standard Data		
Lot #	Description	Conc.
CF0915	Ind. Std.	1000ppm
DC 542	Homerwell Muck	-

Columns: 2B 5Hs: 115mx. 8mmx. 6pr

Method 8470 / 625

Initial Cal. Method MF4329

Injection Volume: 1.0 μ l

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 10/22/25

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	F92535	2A58900-6	46278-1	ABPTCL11 + BACD tameline	w	15			/	/	all	run before 792526
	92536	2A59050-1		ABTCL		16			/	/	all	
	92537	-2				17			/	/	all	
	92538	-3				18			/	/	all	12-06 am

①
10/22/10

TX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-05

Rev. Date: 1/16/2006

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ACCUTEST

EXT-AQ 10-481

LIQUID/LIQUID EXTRACTION

FOR ABSIM

MS46278A

BATCH #

MS46278-1

RACK#

EXTRACTION TIME:

Separatory Funnel

Continuous Liquid Liquid

EXTRACT METHOD (circle one)

SW846 3510C

EPA 600 series / EPA 500 series / CLP / other

SW846 3520C / CLP / other

EXTRACTION DATE: 10/21/10

ANALYST: CEB

METHOD: ABB2D

Water Bath Temp(C) 42

Nitrogen Evap Temp(C)

Supervisor Review

Signature

Date

10/21/10

Sample #	Sample Bottle #	Analysis Type	Sample Description	Sample Vol (ml)	Sample Oil Wt. (g)	pH Adjust (ml)		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA				
						>11 NaOH	<2 H2SO4	Vol(ml)	Color	GPC	H2SO4	CU	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)		
MB 1		ABN	Dilw	1000		4	1	1	CLR						BASE	910	501.2	50	1
BS 1			Dilw	1000					Ylw						ACID	910	501.1	50	1
JAS9086-1 MS	3		L.Ylw	L.Ylw					Ylw				835 ml		PPCB				
MSD	3		L.Ylw	L.Ylw					Ylw				835 ml		HERB				
MS46278A-BS 12		ABSIM	Dilw	1000		4	1	1	L.Ylw					ABSIM					
MS																			
MSD																			
JAS8900-5 EB	1	ABN	CLR	950		4	1	1	CLR					SIM					
-6 EB	2		CLR	835					CLR						BASE	910	420-143	50	1
JAS9154-2	1		L.BROWN	940					L.Ylw						ACID	910	420-142	50	1
-4	1		L.Ylw	1000					L.Ylw						PEST BASE	910	420-140	50	1
-6	1		L.BROWN	980		4			L.Ylw						PCB				
-8	1		BROWN	100		5			D.Ylw						HERB				
-10	2		L.Ylw	980		4			L.Ylw						ABSIM	910	420-105	1	1
JAS9086-1	4			925					Ylw										
-2	4			850					L.Ylw										
-4 FB	4		CLR	960					CLR										
JAS8965-2	3		L.Ylw	100					L.Ylw										
JAS9050-1	1			1000					L.Ylw										
-2	1								L.Ylw										
-3	2			1000					L.Ylw										
JAS9192-11 FB	3		CLR	1000					CLR										
JAS9177-1	4		L.Ylw	960					D.Ylw										
-2 FB	4		CLR	760					CLR										
-3	1		L.Ylw	1000					L.Ylw										
-4	1			930		4			L.Ylw										
JAS9182-1	1			1000		5			D.Ylw										

COMMENTS: * POOR SAMPLE ON 10/21/10

MATRIX SPIKE DATA			
LOT #	CONC.	AMT ADDED (ML)	
BASE	910	420-143	50
ACID	910	420-142	50
PEST BASE	910	420-140	50
PCB			
HERB			
ABSIM	910	420-105	1

SOLVENT DATA			
LOT #	BRAND	X/ML	AMT
METH CHLOR	PC547	W	6/60
HEXANE			
ACETONE			
ETH ETHER			

REAGENT/FILTER MEDIA			
LOT #	BRAND		
SODIUM SULF	901088	FISHKILL	
FILTER PAPER	E1177420	FISHKILL	
1:1 H2SO4	4006203	FISHKILL	
10N NaOH	102360	FISHKILL	
COPPER			
FLORISIL			
SULFURIC ACID			

See back for instructions

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EXT-SO 10-474

BAL ID B3



SOLID/LIQUID EXTRACTION

EXTRACTION TIME: 9-35 AM

Sonication

Pressurized Fluid (ASE)

Soxhlet

EXTRACTION METHOD (circle one)

SW846 3550B

CLP / other

SW846 3545 / CLP / other

SW846 3540C / other

EXTRACTION DATE: 10/25/10 ANALYST: SK

METHOD: AB8270

Water Bath Temp(C) 85

Nitrogen Evap Temp(C) 35

BATCH # 19546332-1	RACK #
Supervisor Review	
Signature _____	
Date 10/25/10	

Sample #	pH	Sample Bottle #	Analysis Type	Sample Description	Sample Wet Wt. (g)	Decant		Final Extract		Extract Cleanup				Comments	SURROGATE SPIKE DATA			
						Y	N	Vol(ml)	Color	GPC	H2SO4	Cu	Florisil		LOT #	CONC. (PPM)	AMT ADDED (ML)	
MB 1			ABN	Na2SO4	35.0			1	clear						BASE	DP 105012	50	1
BS 1				Na2SO4	35.0			1	yellow						ACID	CP 105011	50	1
JA58900-3 MS		2	✓	mud	35.0	✓		1	yellow						PCB			
MSD		2	✓	mud	35.0			1	yellow						HERB			
BS																		
MS																		
MSD														WITNESS SIGN: SK				
JA58900-1		2	ABN	mud	35.1	✓		1	light brown									
-2		2		mud	35.0	✓		1	olive green						BASE #1	DP 105013	50	1
-3		2		mud	35.0	✓		1	light brown						ACID	DP 10420142	50	1
-4		2		mud	35.1	✓		1	olive green						PEST			
-7		2		mud	35.3	✓		1	light yellow						PCB			
-8		2		mud	35.4	✓		1	yellow						HERB			
-9		2		mud	35.2	✓		1	olive green				10/25/10	yellow	Base #2	DP 10420140	50	1
-10		2		mud	35.2	✓		1	olive green						WITNESS SIGN: SK			
-11		2		mud	35.2	✓		1	olive green									
-12		1	✓	mud	35.3	✓		1	yellow									
-14		1	✓	mud	35.1	✓		1	yellow						1:1 MC/ACE	DP 10420134	FW	3/100
JA59226-1		1		clay	35.2	✓		1	light brown						METH CHLOR			
-2		1		soil	35.0	✓		1	yellow						HEXANE			
-3		1		clay	35.3	✓		1	light yellow						ACETONE			
-4		1		soil	35.2	✓		1	light brown						ETH ETHER			
-5		1	✓	soil	35.3	✓		1	dark brown									
-6		1	✓	soil	35.1	✓		1	yellow									
JA59228-1		1	✓	soil	35.1	✓		1	brown						SODIUM SULF.	DP 10-179	Fisher	
JA59322-1		1	✓	soil	35.1	✓		10	dark brown					*	FILTER PAPER	0200101	Ahlstrom	
JA59684-1		1	✓	soil	35.4	✓		1	brown						COPPER			
COMMENTS: *Too thick to blow down, final vol. 10 ml																		