LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.793	14	18	27	rVV	63944	117615	4.37%	0.332%
2	2.869	27	31	51	rVB	2031955	2691821	100.00%	7.591%
3	3.469	128	133	144	rVB	189047	234731	8.72%	0.662%
4	6.816	694	702	710	rBV2	175625	336503	12.50%	0.949%
5	6.986	726	731	737	rBV	125738	192308	7.14%	0.542%
6	7.181	758	764	770	rBB	176117	264130	9.81%	0.745%
7	7.292	779	783	789	rVB	48815	74281	2.76%	0.209%
8	7.651	834	844	852	rBB	333125	521074	19.36%	1.469%
9	8.357	958	964	971	rBV	220756	338895	12.59%	0.956%
10	8.469	978	983	992	rVB	153732	248522	9.23%	0.701%
11	8.810	1034	1041	1047	rBV	163823	256970	9.55%	0.725%
12	9.527	1157	1163	1171	rBB	136161	221424	8.23%	0.624%
13	9.692	1184	1191	1200	rBV	28420	56562	2.10%	0.160%
14	10.063	1248	1254	1263	rVB	227997	369990	13.74%	1.043%
15	10.439	1308	1318	1324	rBV	464209	781068	29.02%	2.203%
16	10.580	1333	1342	1352	rBV	114380	199582	7.41%	0.563%
17	12.110	1595	1602	1607	rBV	32501	48295	1.79%	0.136%
18	13.721	1871	1876	1880	rVV	378294	530331	19.70%	1.496%
19	13.762	1880	1883	1890	rVV	211149	301189	11.19%	0.849%
20	13.998	1917	1923	1938	rVB	432709	637358	23.68%	1.797%
21	14.310	1966	1976	1982	rBV2	703744	1066818	39.63%	3.008%
22	14.368	1982	1986	1994	rVB	54916	83090	3.09%	0.234%
23	14.509	2005	2010	2019	rBV	168659	239016	8.88%	0.674%
24	14.704	2039	2043	2050	rVB	35831	57605	2.14%	0.162%
25	15.304	2139	2145	2150	rBV	563463	761240	28.28%	2.147%
26	15.357	2150	2154	2159	rVB3	52636	74620	2.77%	0.210%
27	15.427	2159	2166	2172	rBV	70829	101518	3.77%	0.286%
28	16.021	2258	2267	2268	rBV2	44779	51219	1.90%	0.144%
29	16.356	2315	2324	2329	rBV5	20179	57482	2.14%	0.162%
30	16.809	2391	2401	2407	rVV5	50286	100884	3.75%	0.284%
31	16.874	2407	2412	2420	rVB	54603	87953	3.27%	0.248%
32	17.056	2437	2443	2447	rVV	935061	1309278	48.64%	3.692%
33	17.098	2447	2450	2455	rVV	528659	729135	27.09%	2.056%
34	17.156	2455	2460	2463	rVV	581764	834515	31.00%	2.353%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Title : SVOA CALIBRATION

35	17.186	2463	2465	2470	rVV	111947	133015	4.94%	0.375%
36	17.462	2508	2512	2517	rBV	37588	50354	1.87%	0.142%
37	17.633	2536	2541	2546	rVB	39996	56190	2.09%	0.158%
38	17.950	2586	2595	2597	rBV2	137973	342285	12.72%	0.965%
39	17.974	2597	2599	2605	rVB	170354	224038	8.32%	0.632%
40	18.056	2605	2613	2618	rBV2	50378	87614	3.25%	0.247%
41	18.121	2618	2624	2628	rBV2	169765	318738	11.84%	0.899%
42	18.162	2628	2631	2636	rVB	100151	126675	4.71%	0.357%
43	18.433	2673	2677	2681	rBV	95730	128686	4.78%	0.363%
44	18.480	2681	2685	2690	rVB3	59439	89297	3.32%	0.252%
45	18.533	2690	2694	2697	rBV2	47951	60253	2.24%	0.170%
46	18.680	2716	2719	2723	rVB2	42835	52081	1.93%	0.147%
47	18.762	2730	2733	2738	rVB3	54552	81186	3.02%	0.229%
48	18.856	2744	2749	2752	rBV	108033	178462	6.63%	0.503%
49	18.997	2768	2773	2788	rVB7	80570	280730	10.43%	0.792%
50	19.121	2788	2794	2799	rBV	892256	1159072	43.06%	3.269%
51	19.233	2808	2813	2817	rBV6	40907	76457	2.84%	0.216%
52	19.362	2831	2835	2839	rVV	70936	101641	3.78%	0.287%
53	19.456	2845	2851	2853	rBV2	842213	1168139	43.40%	3.294%
54	19.486	2853	2856	2864	rVV	964687	1329218	49.38%	3.748%
55	19.562	2864	2869	2874	rVB2	67717	118610	4.41%	0.334%
56	19.721	2893	2896	2901	rVB3	48475	73170	2.72%	0.206%
57	19.803	2906	2910	2919	rBV2	77842	192342	7.15%	0.542%
58	19.897	2922	2926	2929	rBV4	36056	48574	1.80%	0.137%
59	19.944	2929	2934	2936	rBV5	55227	94939	3.53%	0.268%
60	19.980	2936	2940	2949	rVB	174812	303268	11.27%	0.855%
61	20.080	2953	2957	2961	rVV2	127298	156669	5.82%	0.442%
62	20.139	2961	2967	2971	rVV2	117301	176851	6.57%	0.499%
63	20.180	2971	2974	2978	rVB3	41168	52302	1.94%	0.147%
64	20.280	2987	2991	2994	rBV	85360	114104	4.24%	0.322%
65	20.327	2994	2999	3003	rVB	96678	139689	5.19%	0.394%
66	20.439	3014	3018	3023	rVB6	34026	53636	1.99%	0.151%
67	20.686	3057	3060	3063	rBV4	41820	62042	2.30%	0.175%
68	20.727	3064	3067	3074	rVB	74598	127160	4.72%	0.359%
69	20.791	3074	3078	3082	rBV6	24889	51173	1.90%	0.144%
70	20.897	3088	3096	3099	rBV2	148148	259582	9.64%	0.732%
71	20.933	3099	3102	3105	rVV	97237	140969	5.24%	0.398%

LSC Area Percent Report

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Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Title : SVOA CALIBRATION

72	20.968	3105	3108	3114	rVV3	163969	298035	11.07%	0.840%
73	21.021	3114	3117	3129	rVB3	72180	216992	8.06%	0.612%
74	21.133	3129	3136	3140	rBV	66015	155463	5.78%	0.438%
75	21.250	3149	3156	3160	rBV2	1230889	2124776	78.93%	5.992%
76	21.286	3160	3162	3170	rVB	508334	584761	21.72%	1.649%
77	21.368	3173	3176	3179	rBV3	33888	53797	2.00%	0.152%
78	21.403	3179	3182	3188	rVB3	135555	179437	6.67%	0.506%
79	21.715	3229	3235	3237	rBV5	40138	87358	3.25%	0.246%
80	21.750	3237	3241	3245	rBV	549910	705321	26.20%	1.989%
81	21.844	3255	3257	3261	rVB	64838	70915	2.63%	0.200%
82	21.897	3261	3266	3272	rBV2	945170	1256650	46.68%	3.544%
83	21.985	3278	3281	3285	rBV2	78331	116338	4.32%	0.328%
84	22.050	3285	3292	3295	rVV4	627622	995384	36.98%	2.807%
85	22.080	3295	3297	3305	rVB2	400434	534578	19.86%	1.507%
86	22.209	3315	3319	3322	rBV2	265729	403268	14.98%	1.137%
87	22.244	3322	3325	3339	rVB4	331678	704114	26.16%	1.986%
88	22.391	3344	3350	3352	rBV3	146512	288697	10.72%	0.814%
89	22.509	3367	3370	3373	rBV4	50814	69802	2.59%	0.197%
90	22.562	3374	3379	3384	rVV4	123936	225920	8.39%	0.637%
91	22.709	3401	3404	3408	rVB4	91937	129592	4.81%	0.365%
92	22.762	3409	3413	3415	rBV2	92976	148542	5.52%	0.419%
93	22.803	3416	3420	3432	rVB	269348	853251	31.70%	2.406%
94	22.974	3444	3449	3455	rBV2	72949	134000	4.98%	0.378%
95	23.280	3496	3501	3505	rBV	186231	335327	12.46%	0.946%
96	23.332	3505	3510	3514	rVV2	323434	605816	22.51%	1.708%
97	23.374	3514	3517	3525	rVB	268727	453992	16.87%	1.280%
98	23.474	3527	3534	3540	rBV2	548305	1027734	38.18%	2.898%
99	25.709	3906	3914	3926	rVB2	122645	354931	13.19%	1.001%
100	26.403	4024	4032	4041	rVB	53106	160364	5.96%	0.452%

Sum of corrected areas: 35461388

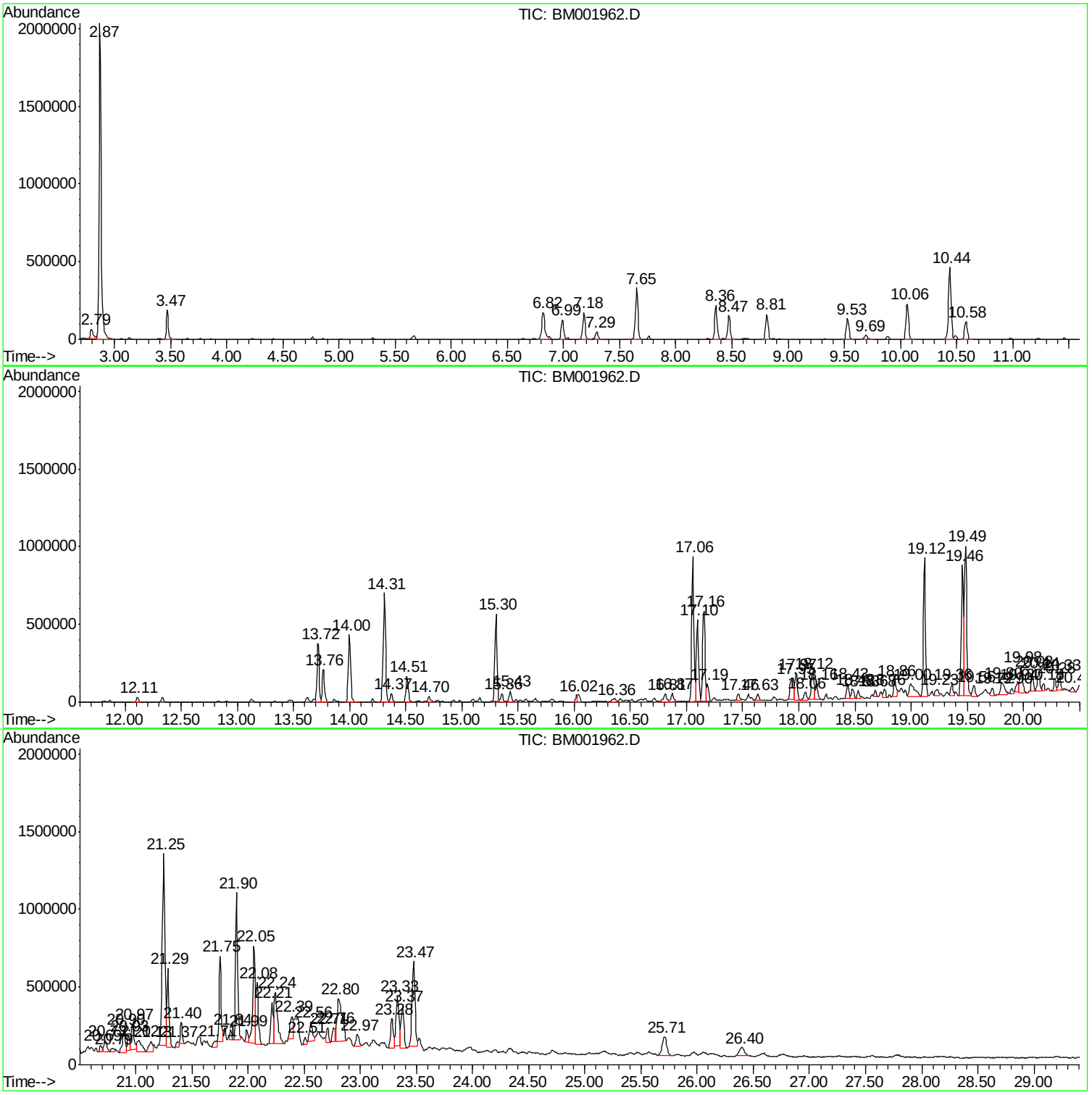
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

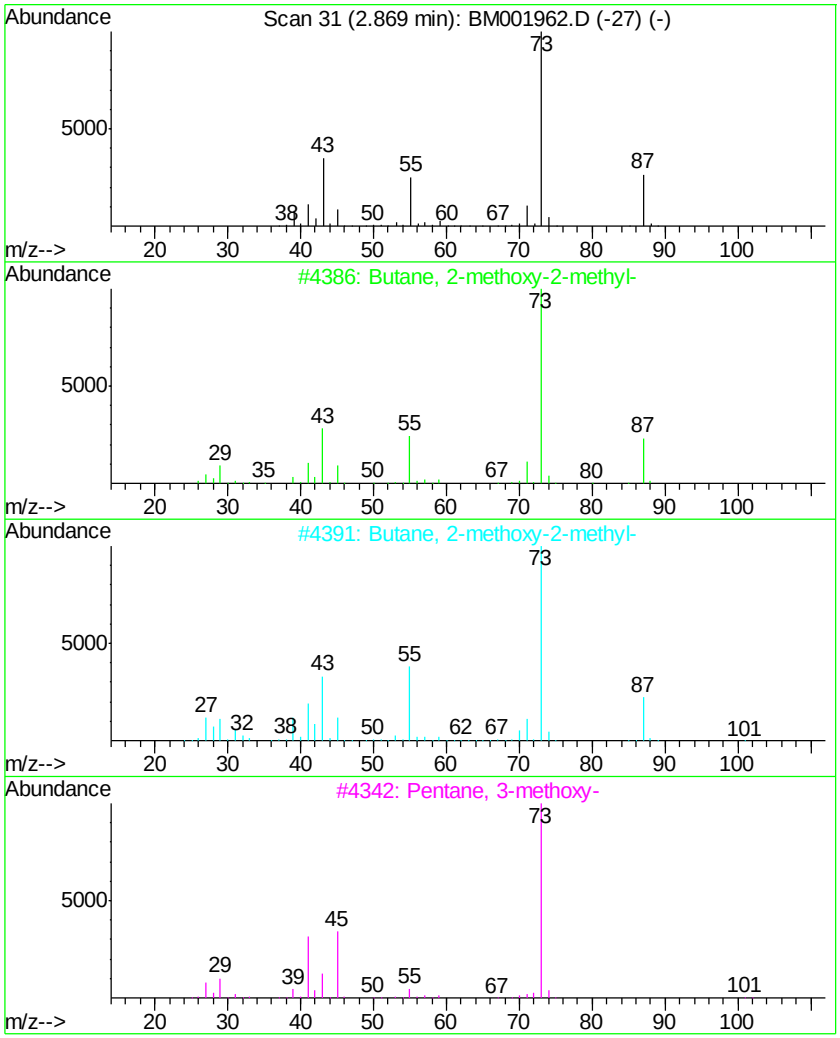
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

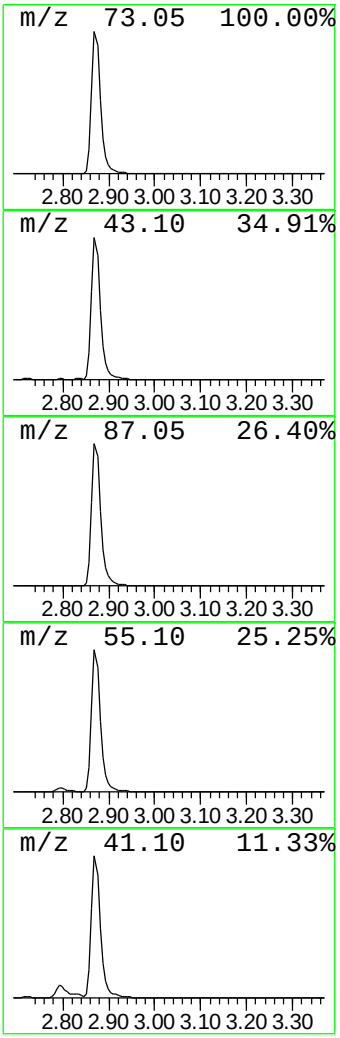
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.87	103.32 ng/ul	2691820	1,4-Dichlorobenzene-d4	7.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	74
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

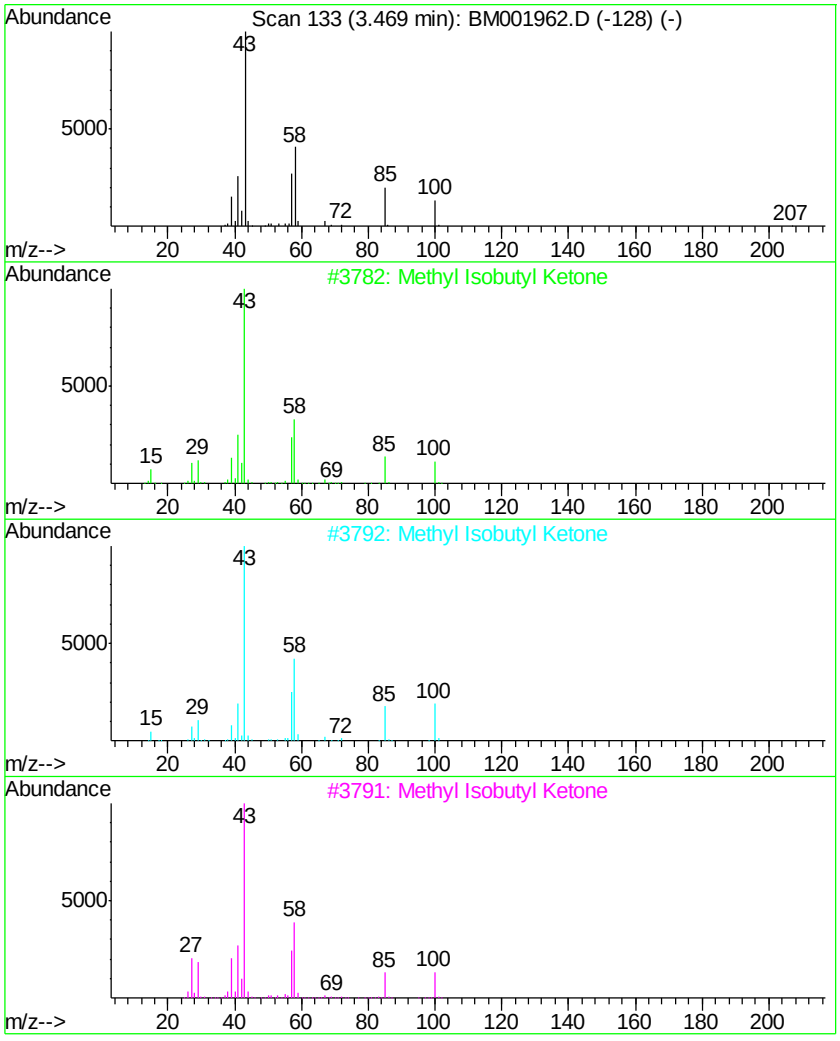
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

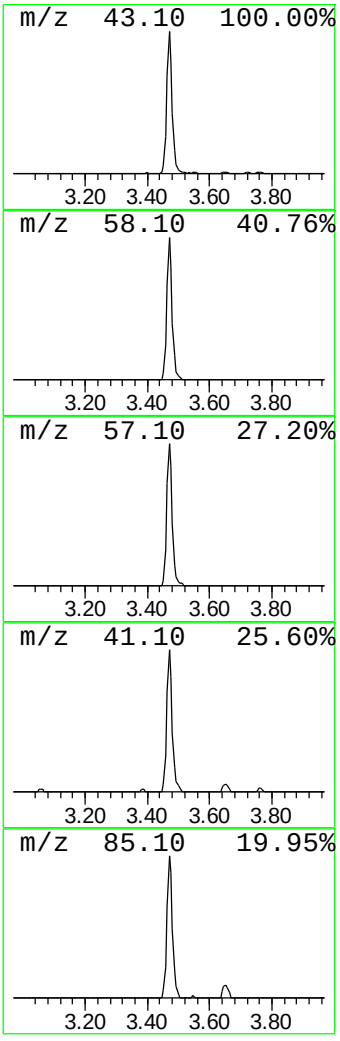
****

Peak Number 3 Methyl Isobutyl Ketone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.47	9.01 ng/ul	234731	1,4-Dichlorobenzene-d4	7.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methyl Isobutyl Ketone	100	C6H12O	000108-10-1	87
2	Methyl Isobutyl Ketone	100	C6H12O	000108-10-1	86
3	Methyl Isobutyl Ketone	100	C6H12O	000108-10-1	72
4	2-Hexanone	100	C6H12O	000591-78-6	72
5	2-Hexanone	100	C6H12O	000591-78-6	72





Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

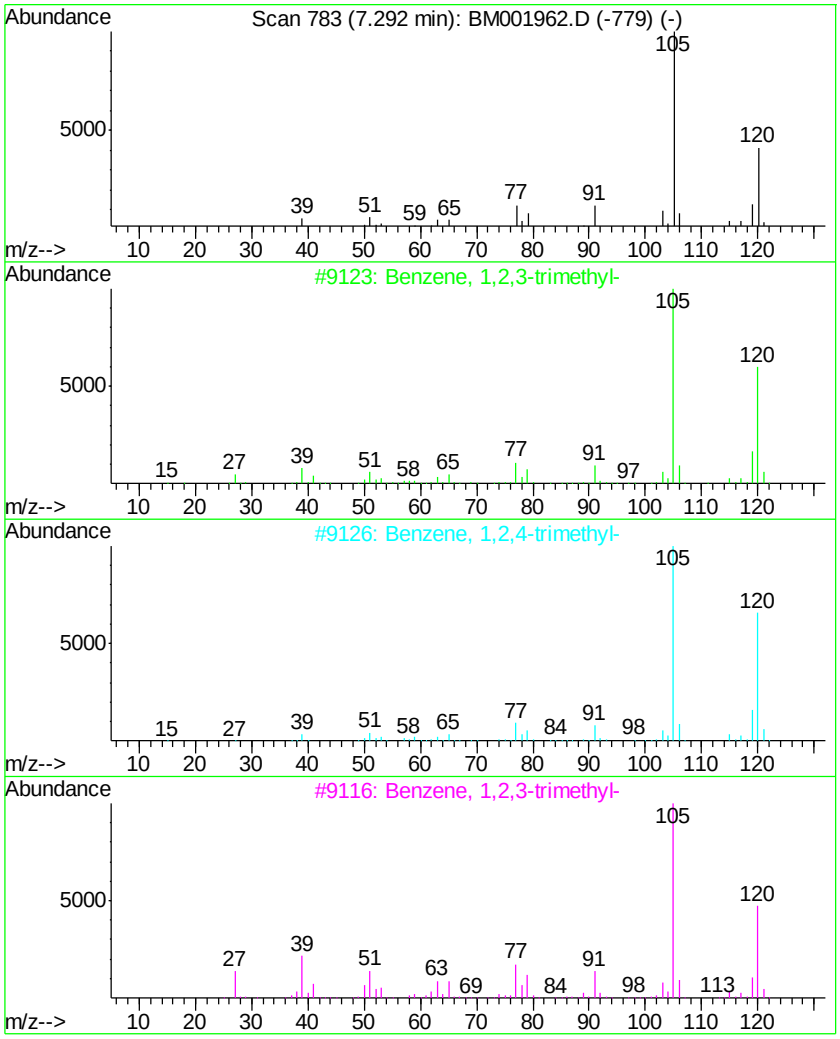
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

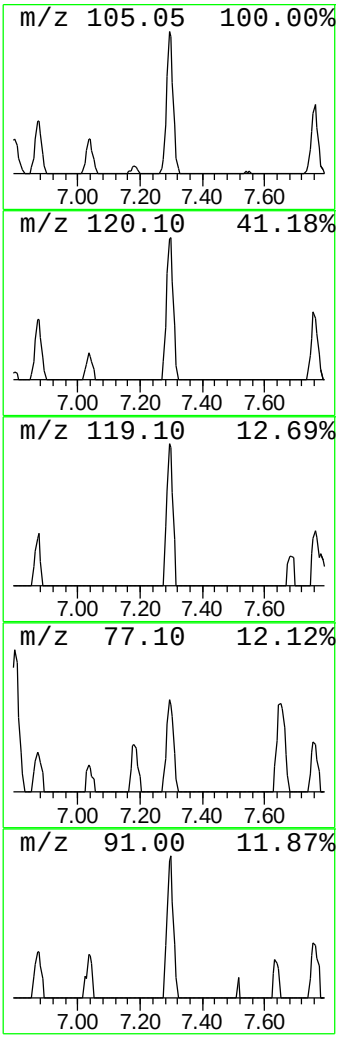
****

Peak Number 4 Benzene, 1,2,3-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.29	2.85 ng/ul	74281	1,4-Dichlorobenzene-d4	7.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

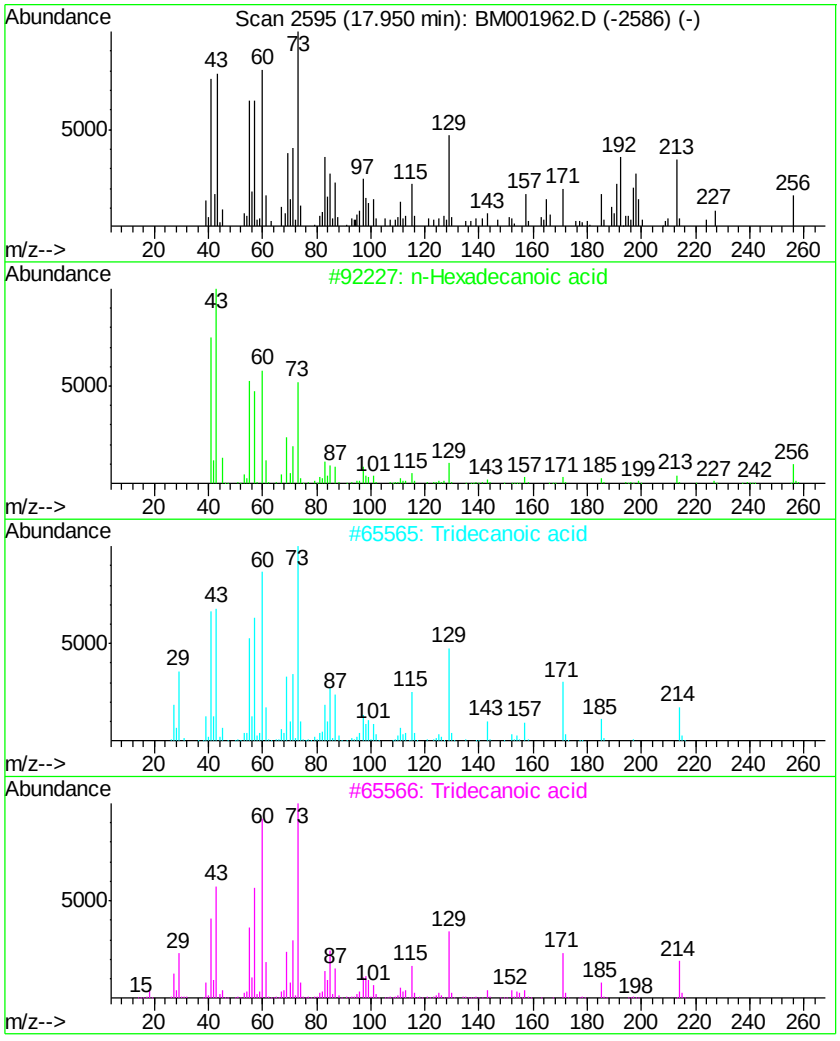
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

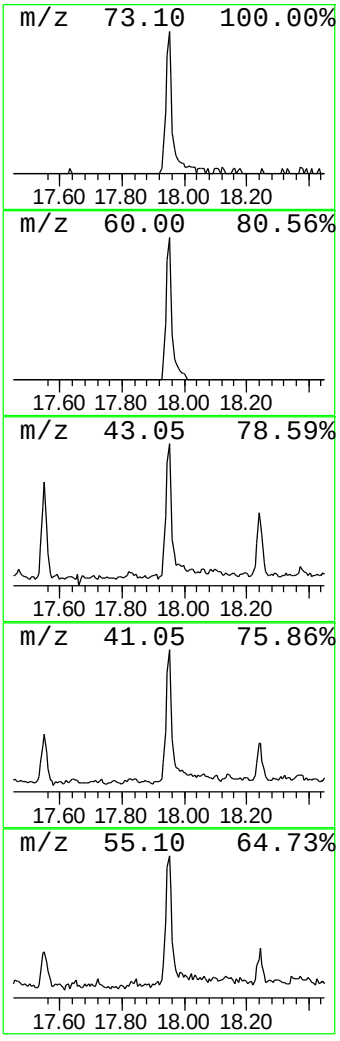
****

Peak Number 5 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.95	5.23 ng/ul	342285	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2	Tridecanoic acid	214	C13H26O2	000638-53-9	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	70
4	Undecanoic acid	186	C11H22O2	000112-37-8	45
5	Dodecanoic acid	200	C12H24O2	000143-07-7	41





Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

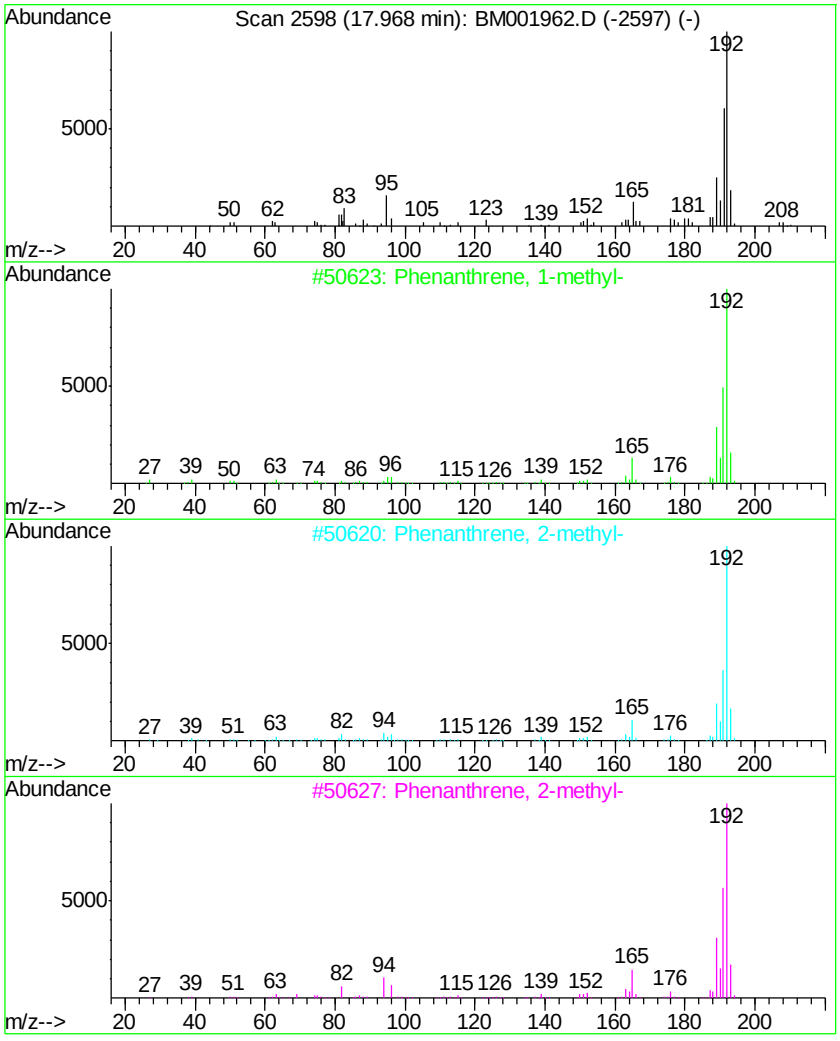
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

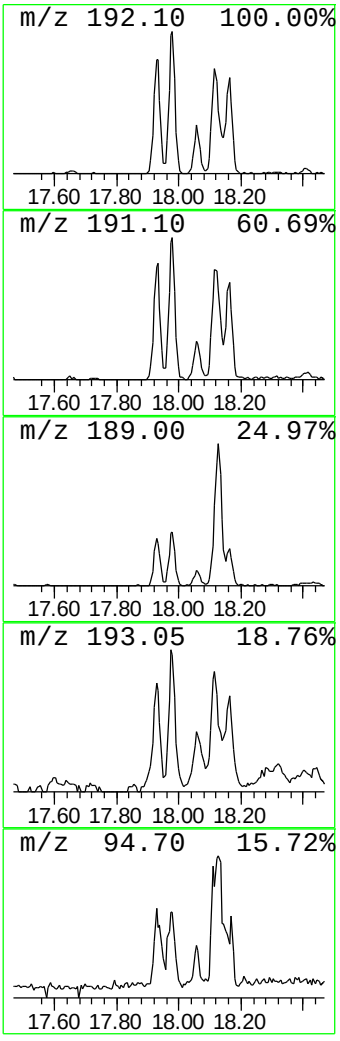
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	3.42 ng/ul	224038	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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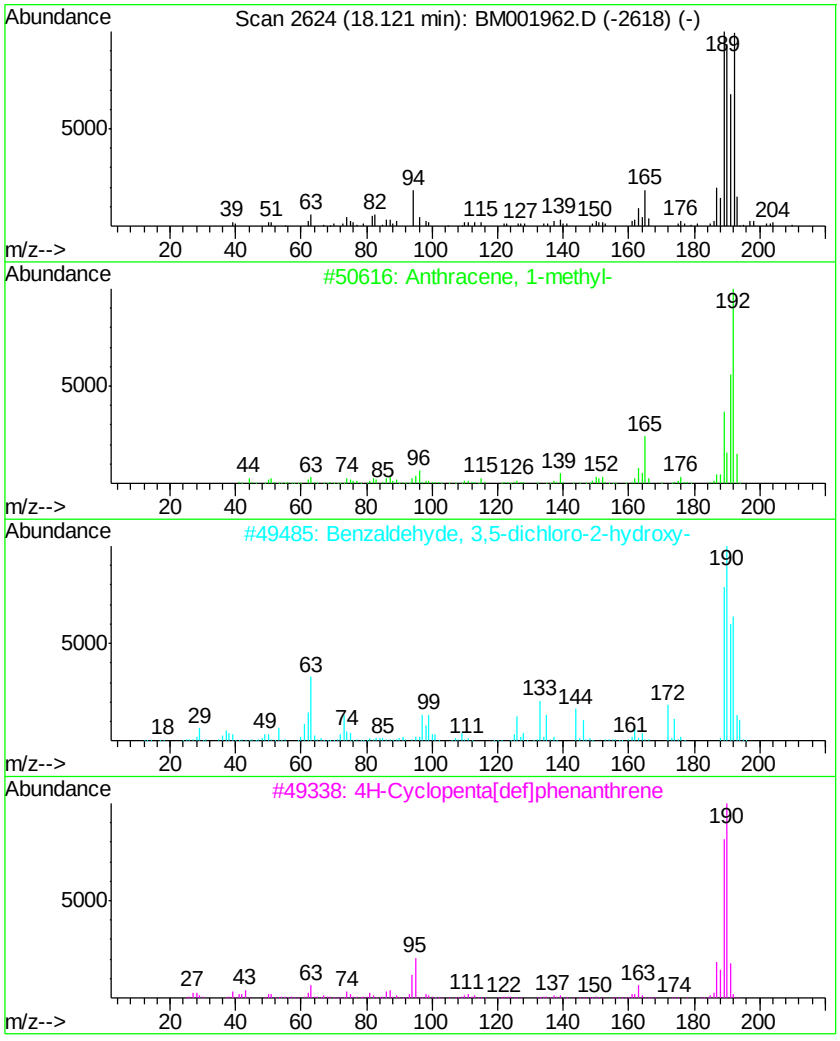
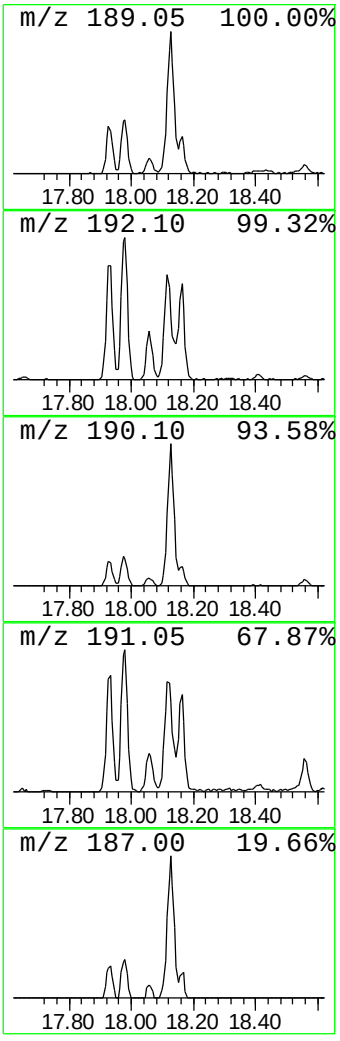
Peak Number 7 Anthracene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	4.87 ng/ul	318738	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	84
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46





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Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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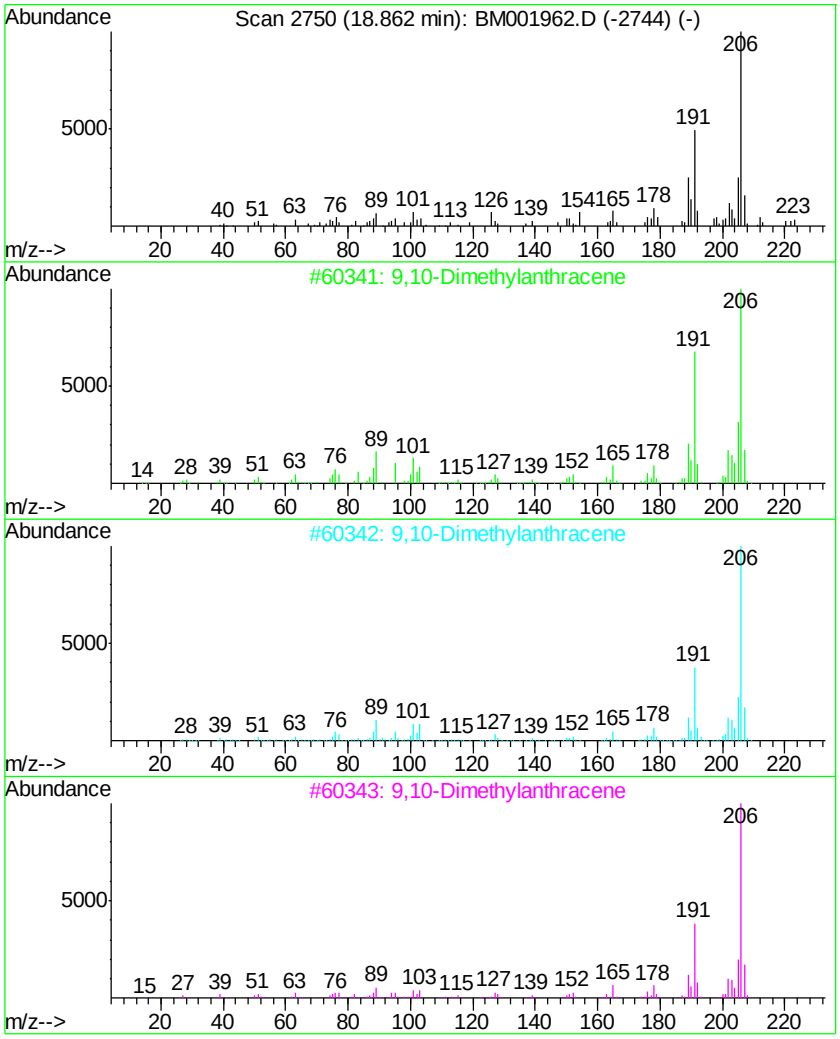
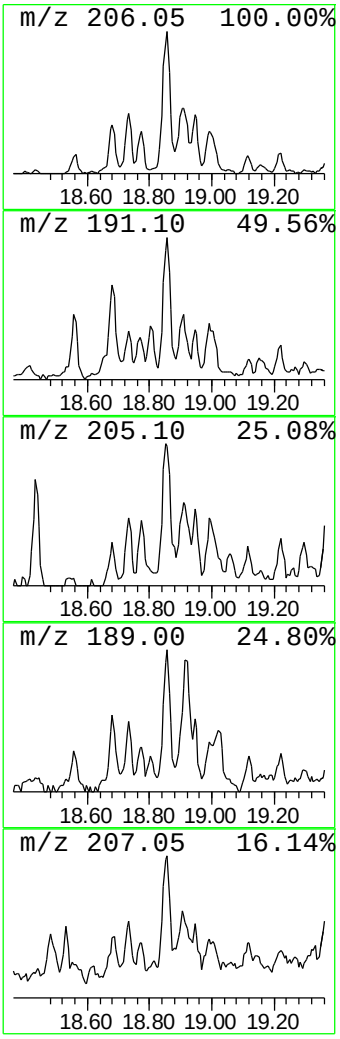
Peak Number 8 9,10-Dimethylanthracene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	2.73 ng/ul	178462	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Acq On : 17 Jul 2015 00:45
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Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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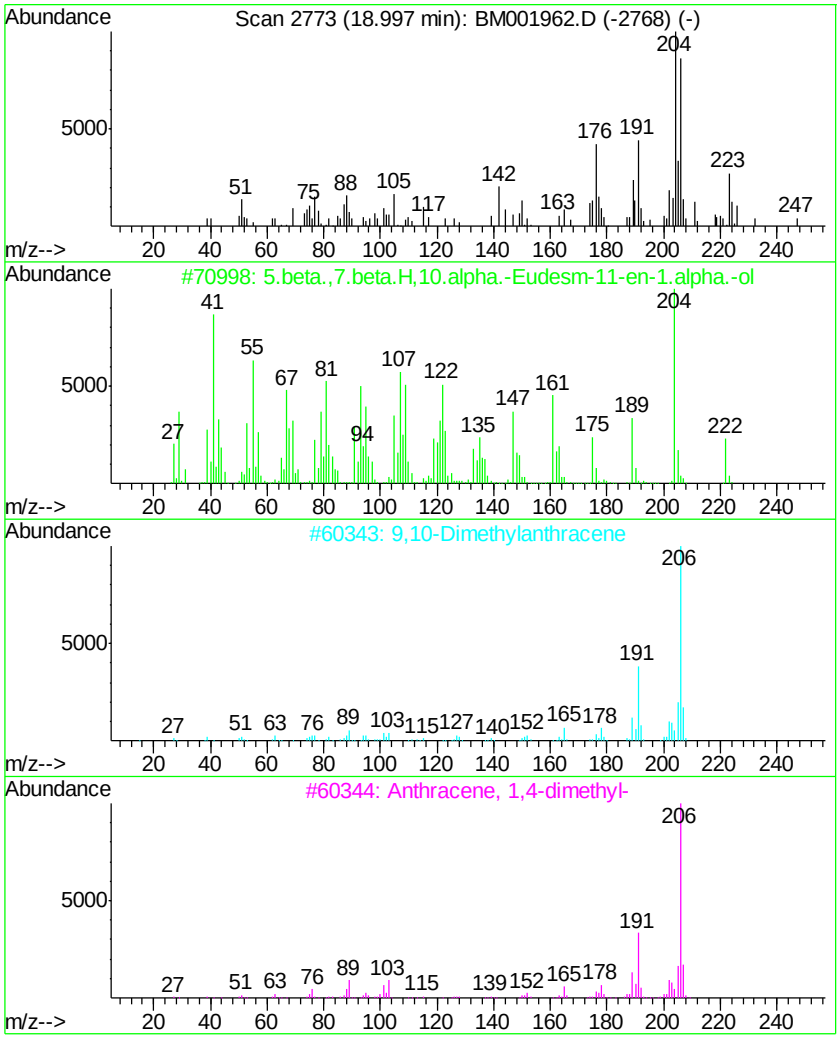
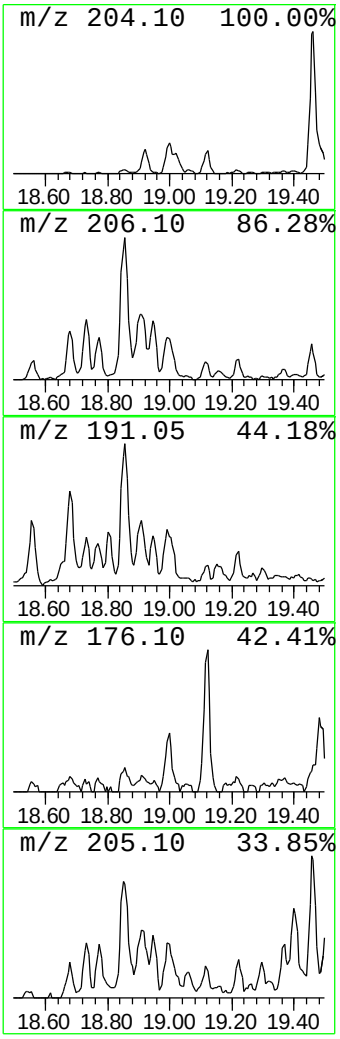
Peak Number 9 5.beta.,7.beta.H,10.alpha.-... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.00	4.29 ng/ul	280730	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5.beta.,7.beta.H,10.alpha.-Eudes...	222	C15H26O	025826-85-1	59
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	46
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	46
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	46





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Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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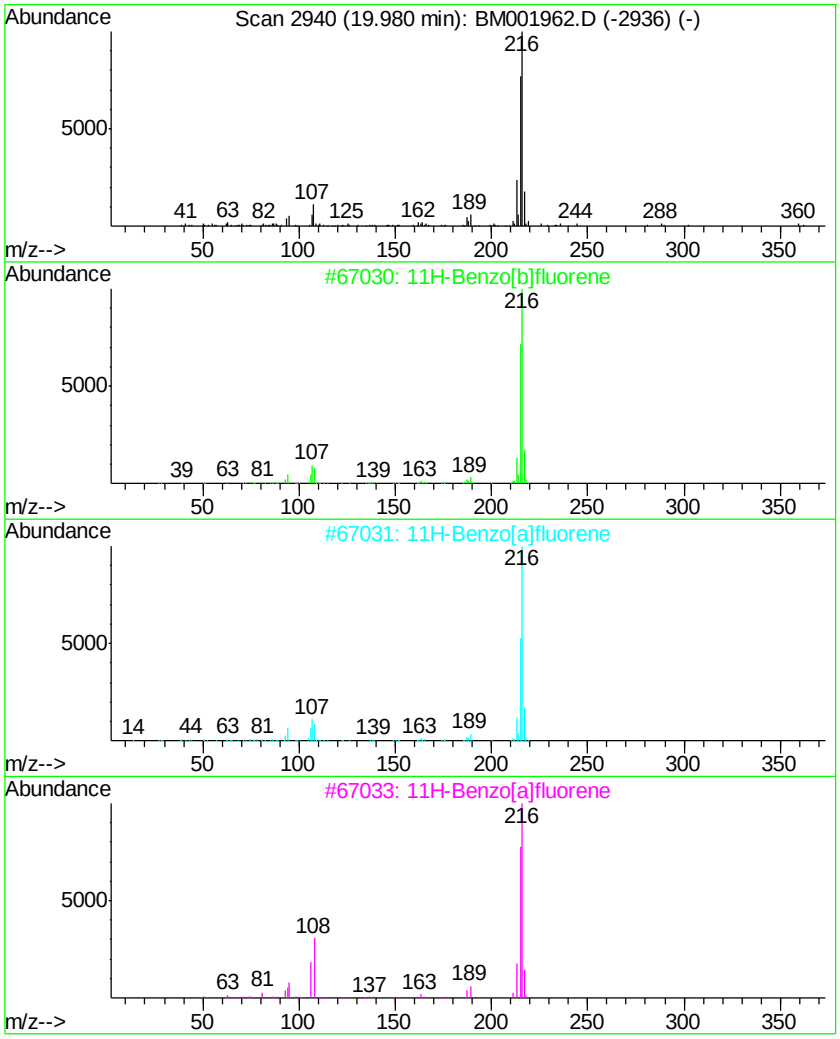
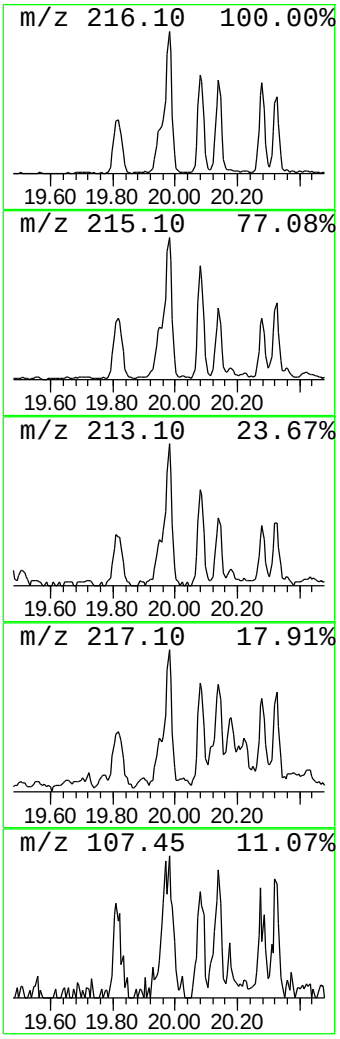
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.98	2.85 ng/ul	303268	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	72





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Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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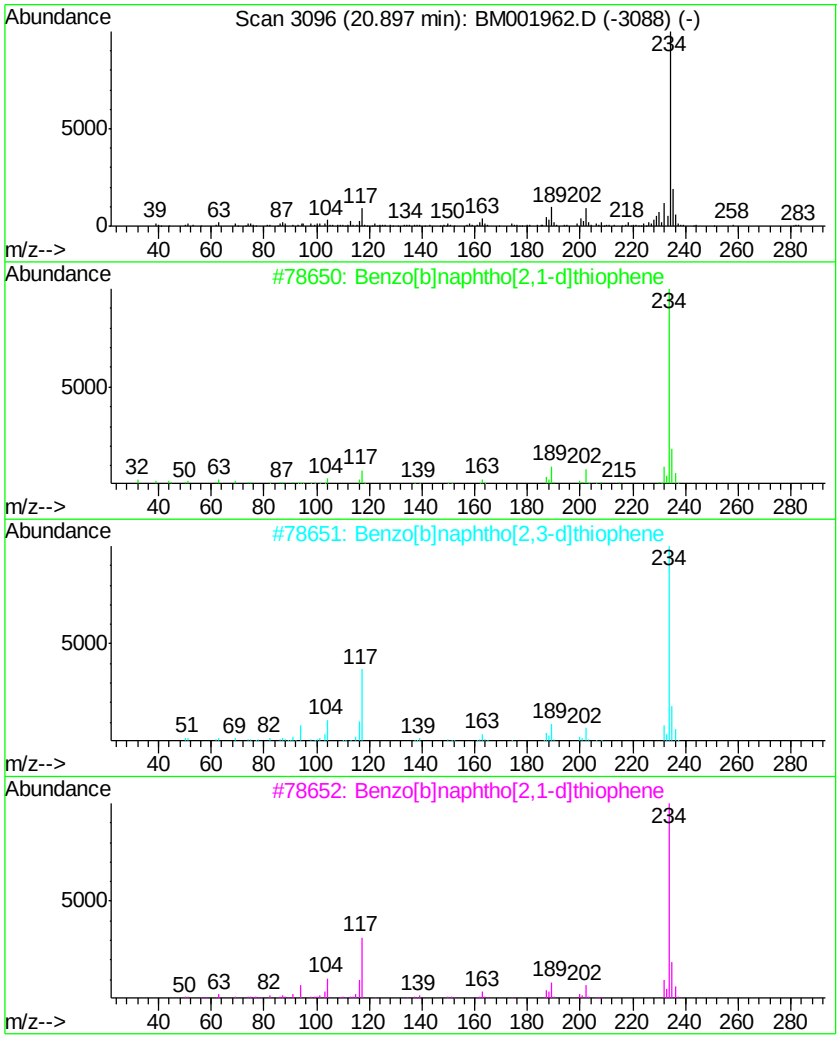
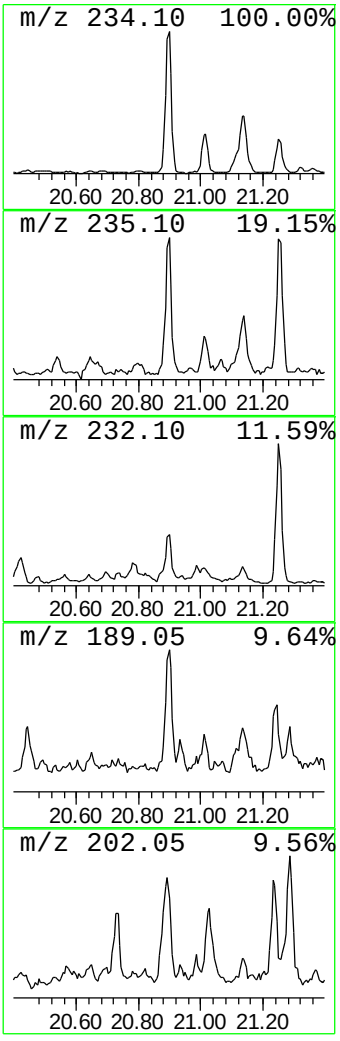
Peak Number 11 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.90	2.44 ng/ul	259582	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	98
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91





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Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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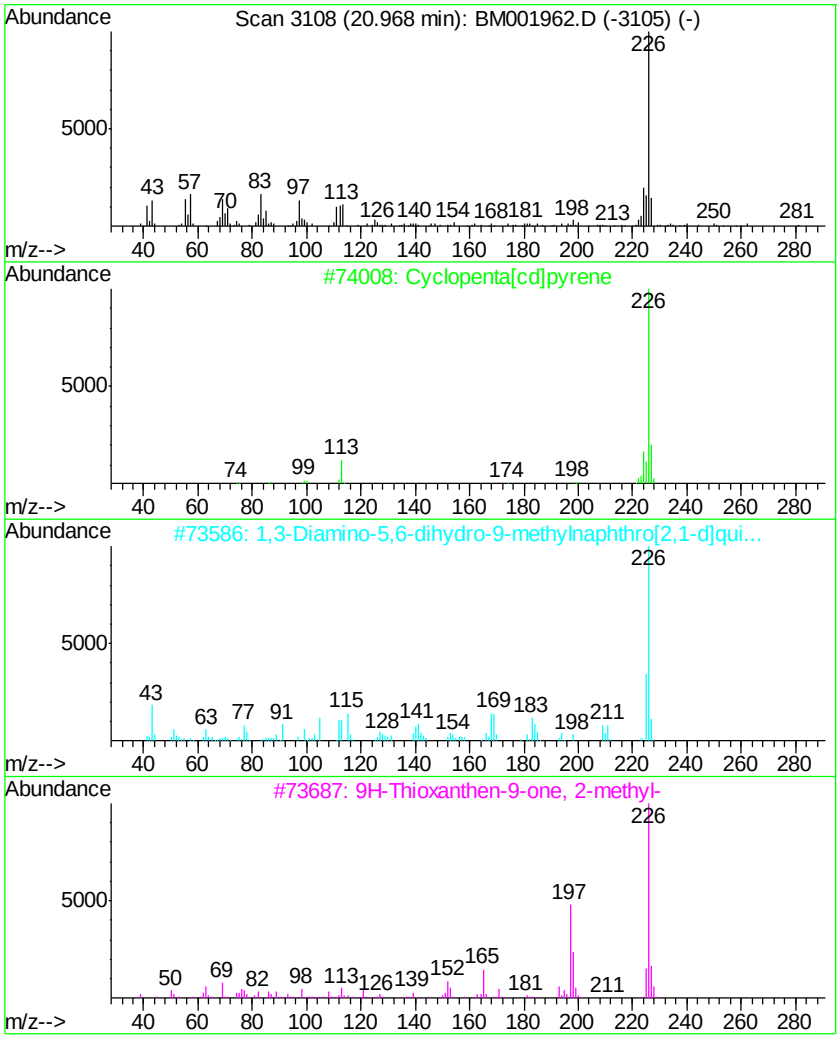
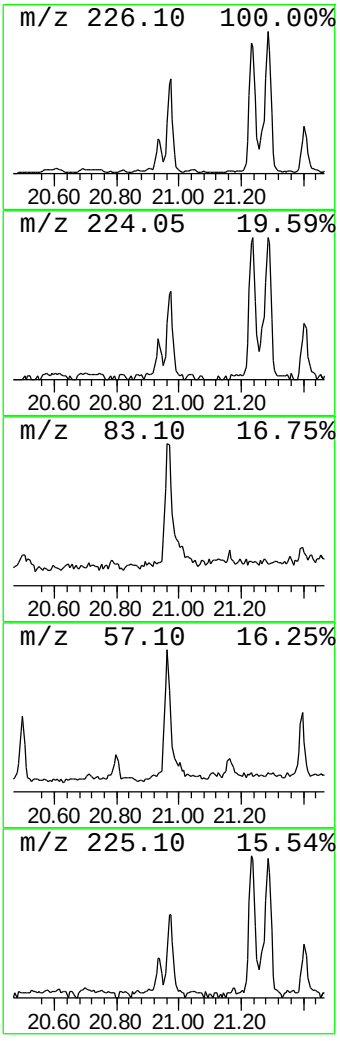
Peak Number 12 Cyclopenta[cd]pyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.97	2.81 ng/ul	298035	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
2	1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	50
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	47
4	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	46
5	9H-Xanthen-9-one, 3-methoxy-	226	C14H10O3	003722-52-9	38





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Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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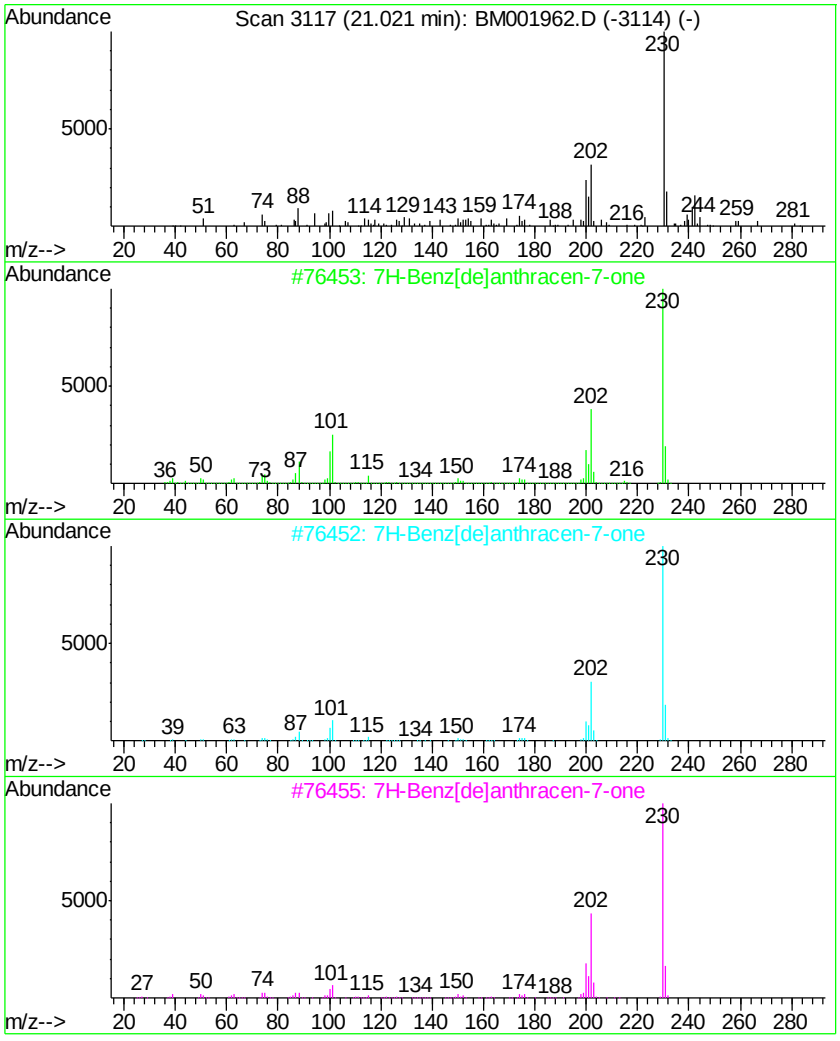
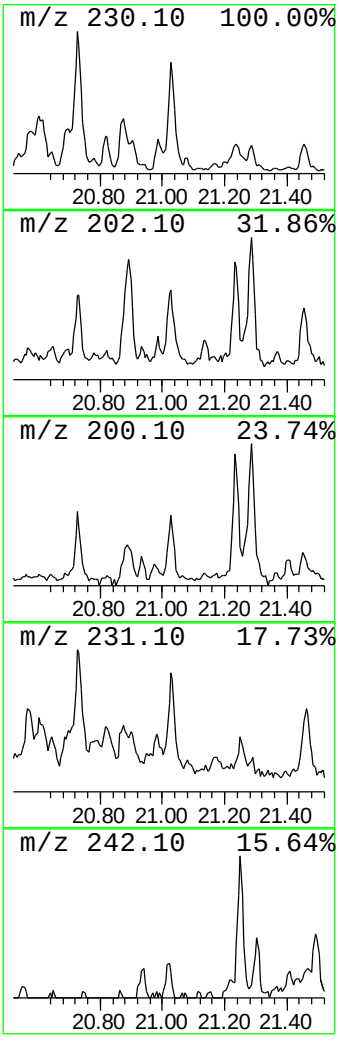
Peak Number 13 7H-Benz[de]anthracen-7-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.02	2.04 ng/ul	216992	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
4	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	64
5	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	50





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Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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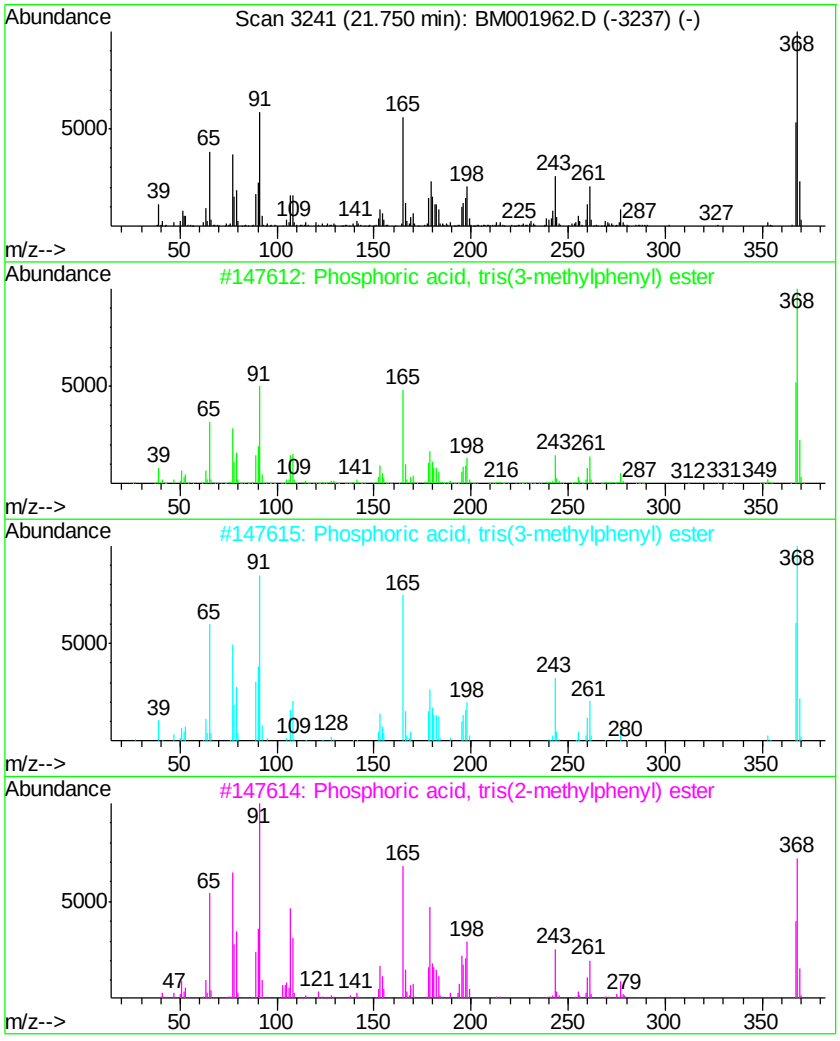
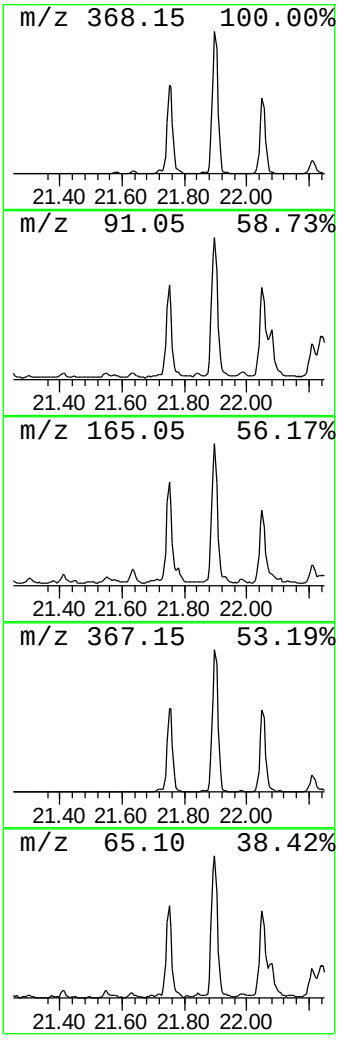
Peak Number 14 Phosphoric acid, tris(3-met... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.75	6.64 ng/ul	705321	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphoric acid, tris(3-methylph...	368	C21H21O4P	000563-04-2	99
2	Phosphoric acid, tris(3-methylph...	368	C21H21O4P	000563-04-2	99
3	Phosphoric acid, tris(2-methylph...	368	C21H21O4P	000078-30-8	91
4	Phosphoric acid, tris(4-methylph...	368	C21H21O4P	000078-32-0	91
5	Phosphoric acid, tris(4-methylph...	368	C21H21O4P	000078-32-0	35





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Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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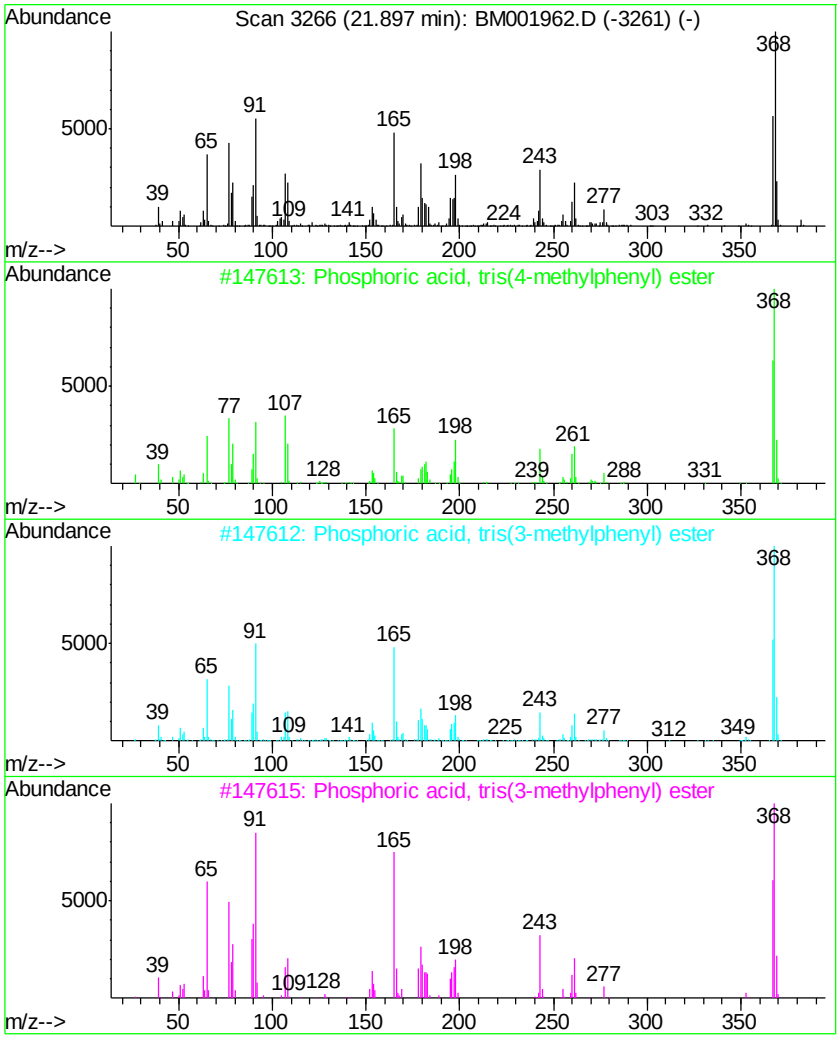
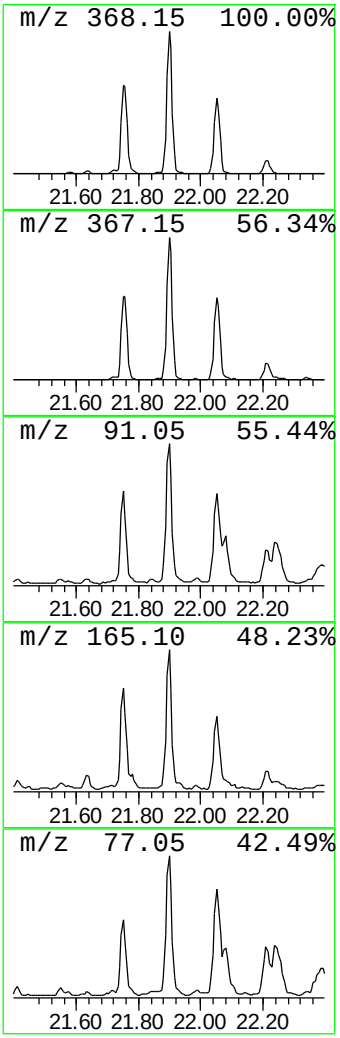
Peak Number 15 Phosphoric acid, tris(4-met... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.90	11.83 ng/ul	1256650	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphoric acid, tris(4-methylph...	368	C21H21O4P	000078-32-0	99
2	Phosphoric acid, tris(3-methylph...	368	C21H21O4P	000563-04-2	99
3	Phosphoric acid, tris(3-methylph...	368	C21H21O4P	000563-04-2	98
4	Phosphoric acid, tris(2-methylph...	368	C21H21O4P	000078-30-8	97
5	[7aS-(7a.alpha.,8a.alpha.,9E,12....	368	C21H24N2O4	030809-15-5	90





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Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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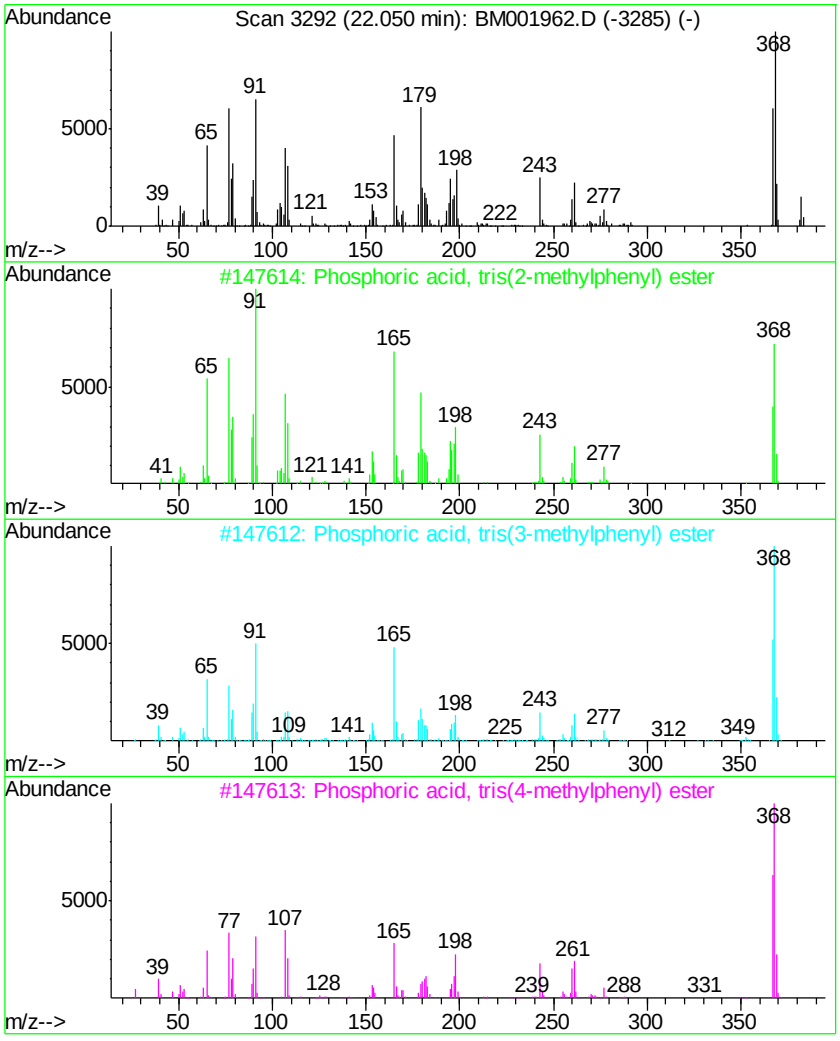
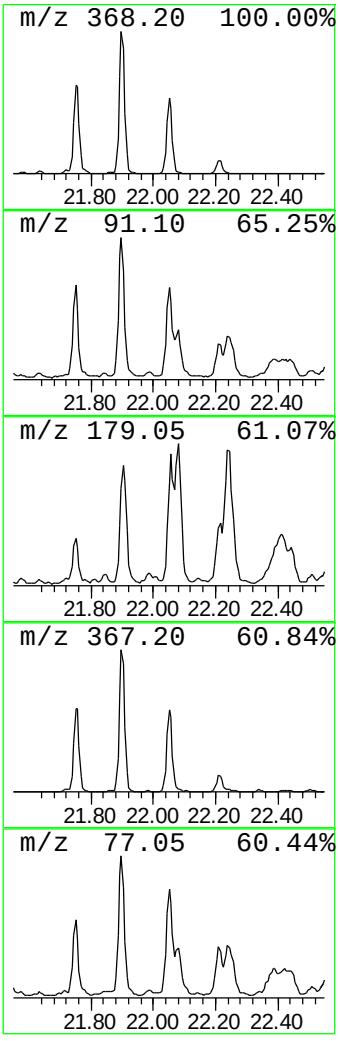
Peak Number 16 Phosphoric acid, tris(2-met... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.05	9.37 ng/ul	995384	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphoric acid, tris(2-methylph...	368	C21H21O4P	000078-30-8	99
2	Phosphoric acid, tris(3-methylph...	368	C21H21O4P	000563-04-2	98
3	Phosphoric acid, tris(4-methylph...	368	C21H21O4P	000078-32-0	90
4	Phosphoric acid, tris(4-methylph...	368	C21H21O4P	000078-32-0	81
5	Phosphoric acid, tris(3-methylph...	368	C21H21O4P	000563-04-2	58





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ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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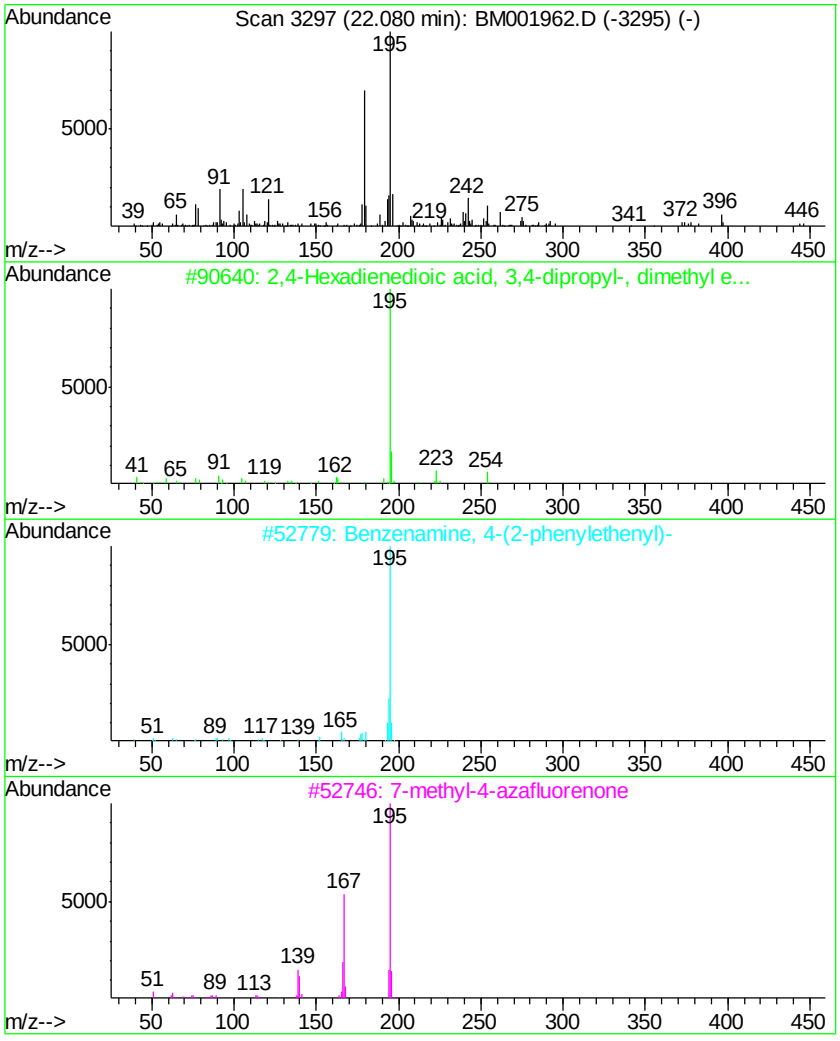
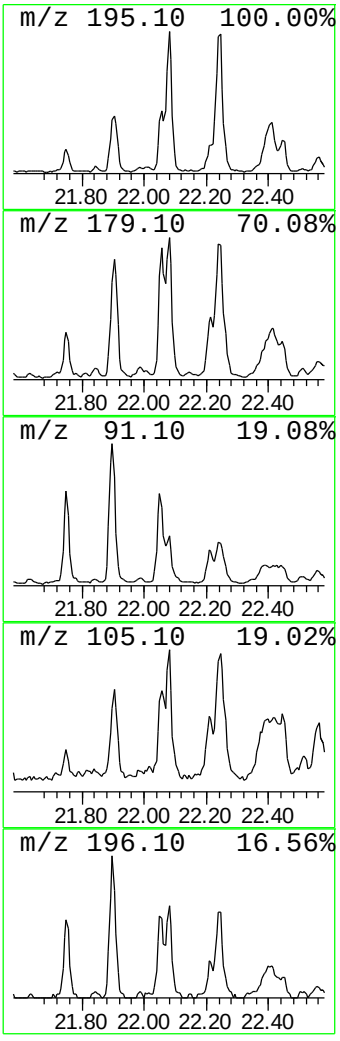
Peak Number 17 unknown-01 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.08	5.03 ng/ul	534578	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Hexadienedioic acid, 3,4-dip...	254	C14H22O4	058367-41-2	49
2	Benzenamine, 4-(2-phenylethenyl)-	195	C14H13N	000834-24-2	47
3	7-methyl-4-azafluorenone	195	C13H9NO	064292-02-0	47
4	3-Methyl-2-azafluorenone	195	C13H9NO	018631-14-6	43
5	3-Acridinol	195	C13H9NO	007132-70-9	43





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Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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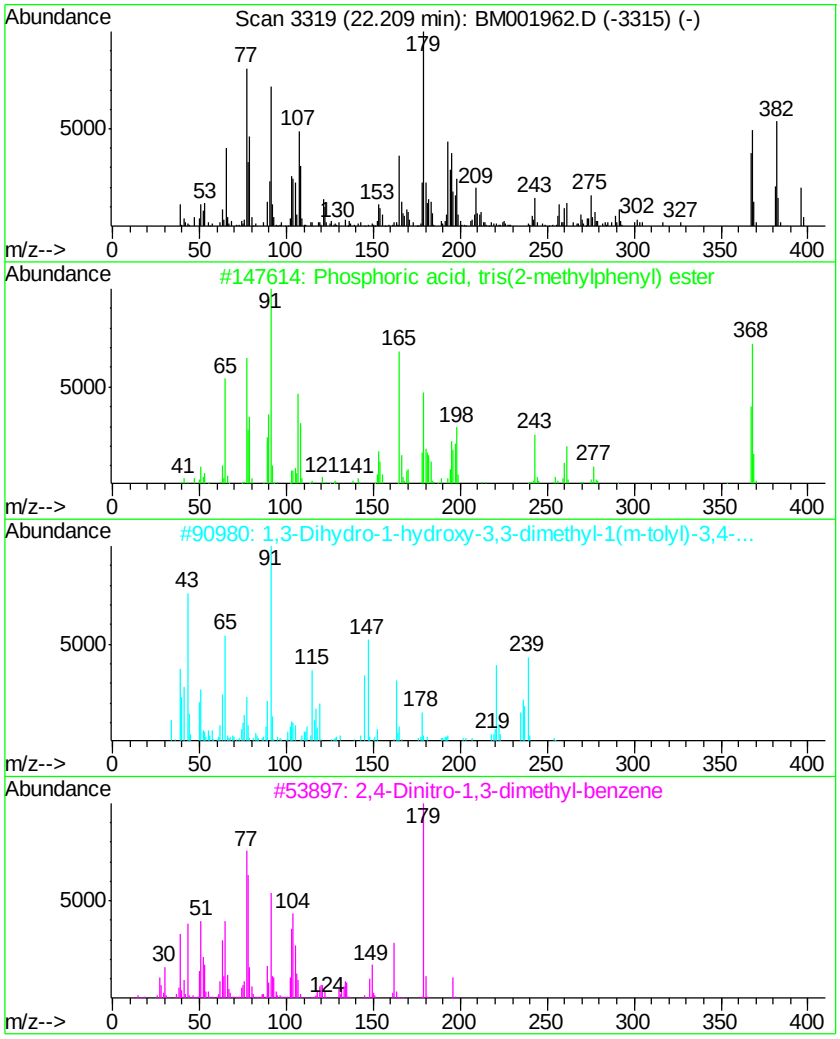
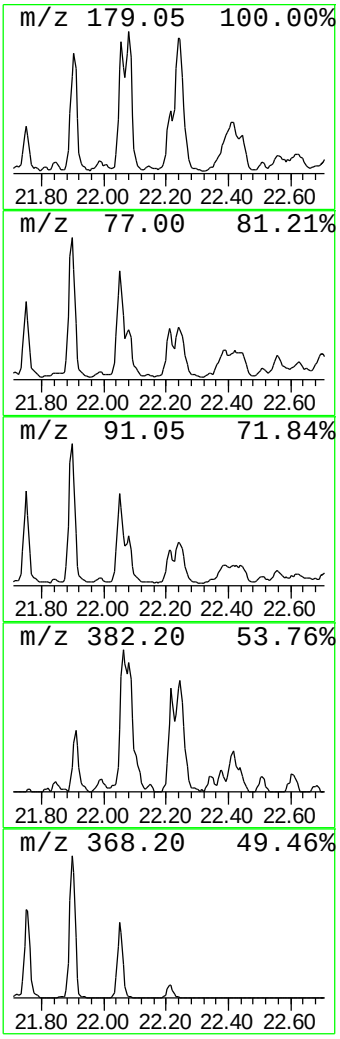
Peak Number 18 unknown-02 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.21	3.80 ng/ul	403268	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphoric acid, tris(2-methylph...	368	C21H21O4P	000078-30-8	96
2	1,3-Dihydro-1-hydroxy-3,3-dimeth...	254	C17H18O2	007002-47-3	25
3	2,4-Dinitro-1,3-dimethyl-benzene	196	C8H8N2O4	000603-02-1	23
4	2,4-Dinitro-1,3-dimethyl-benzene	196	C8H8N2O4	000603-02-1	16
5	1,4-Bis(trimethylsilyl)-1,3-buta...	194	C10H18Si2	004526-07-2	11





Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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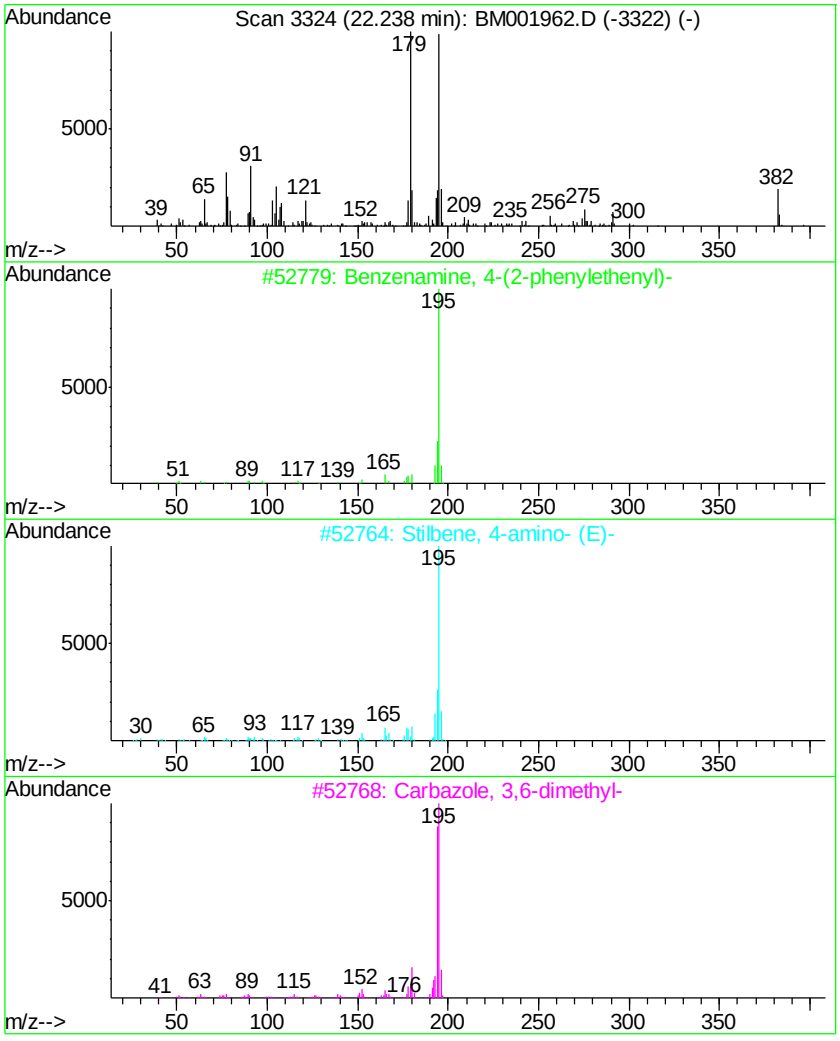
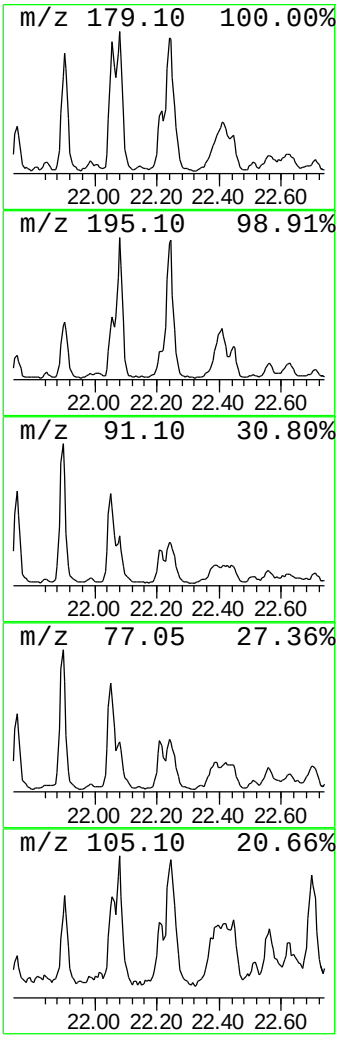
Peak Number 19 unknown-03 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.24	6.63 ng/ul	704114	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 4-(2-phenylethenyl)-	195	C14H13N	000834-24-2	35
2	Stilbene, 4-amino- (E)-	195	C14H13N	004309-66-4	35
3	Carbazole, 3,6-dimethyl-	195	C14H13N	005599-50-8	30
4	5H-Dibenz[b,f]azepine, 10,11-dih...	195	C14H13N	000494-19-9	27
5	1,2-Benzenedimethanamine, N,N'-d...	288	C20H20N2	070276-72-1	27





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Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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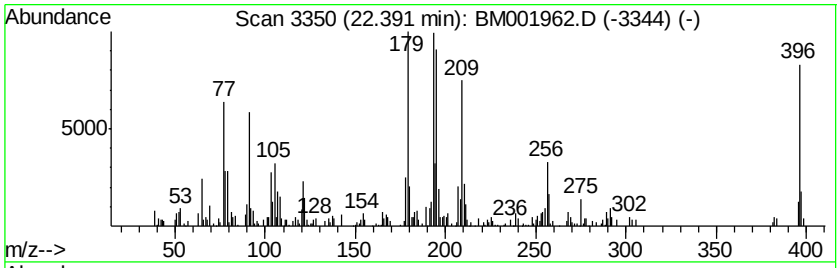
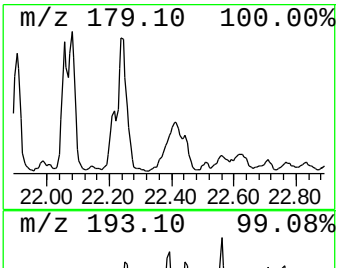
Peak Number 20 unknown-04 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.39	5.62 ng/ul	288697	Perylene-d12	23.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine-N-oxide	195	C13H9NO	010399-73-2	22
2	Carbazole, 2,5-dimethyl-	195	C14H13N	078787-79-8	15
3	Benzo[1,2-c:4,5-c']dipyrrole-1,3...	396	C24H16N2O4	031663-75-9	11
4	Stilbene, 4-amino- (E)-	195	C14H13N	004309-66-4	11
5	[1,2,4]Triazolo[1,5-a]pyridine, ...	195	C12H9N3	000779-24-8	11





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Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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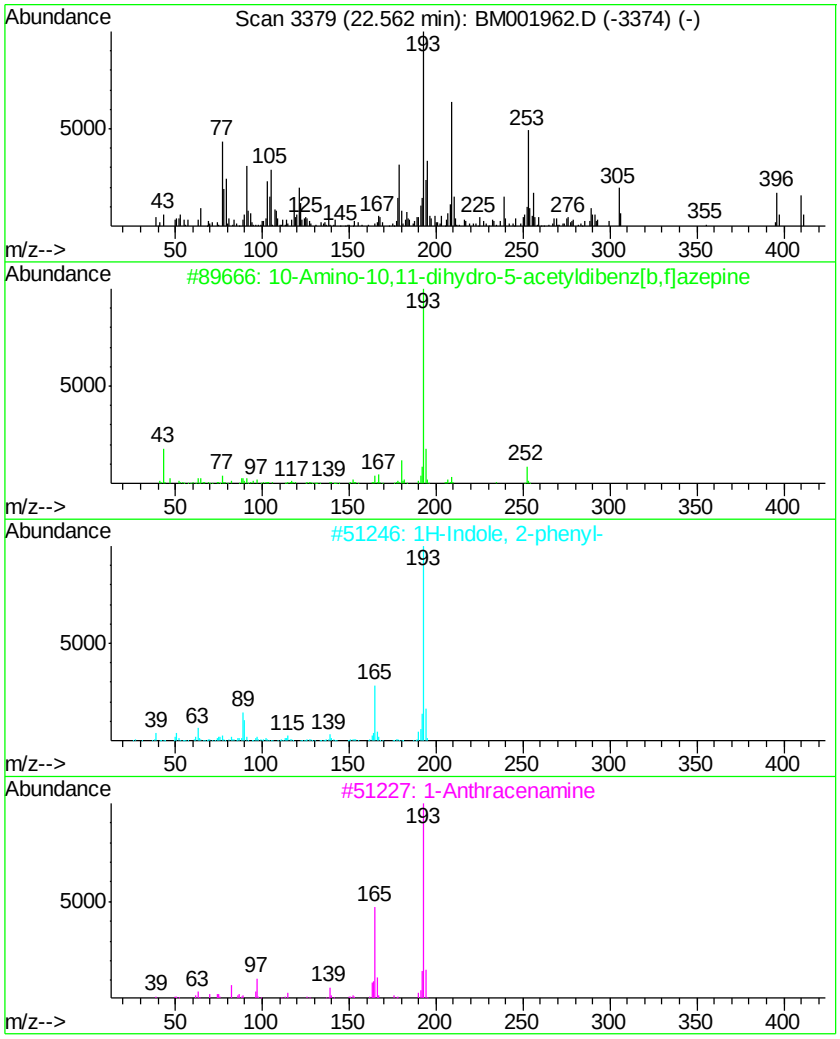
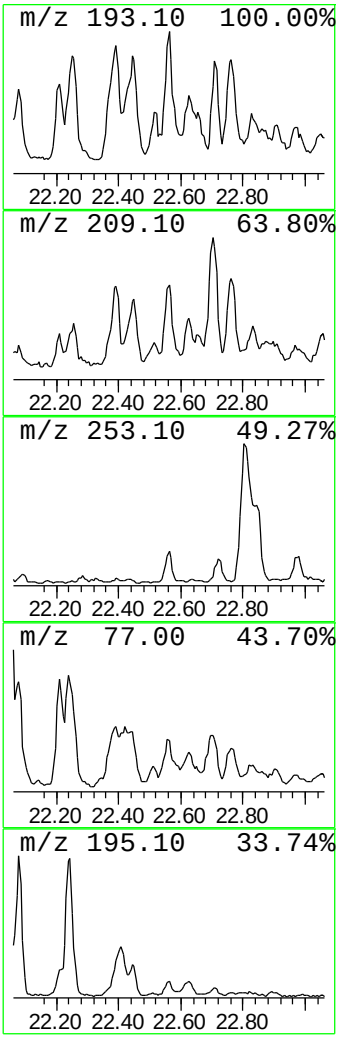
Peak Number 21 unknown-05 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.56	4.40 ng/ul	225920	Perylene-d12	23.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Amino-10,11-dihydro-5-acetyld...	252	C16H16N2O	028291-57-8	27
2	1H-Indole, 2-phenyl-	193	C14H11N	000948-65-2	27
3	1-Anthracenamine	193	C14H11N	000610-49-1	27
4	1H-Indole, 2-phenyl-	193	C14H11N	000948-65-2	27
5	Pyrazole, 5-methyl-3-(5-nitro-2-...	193	C8H7N3O3	016239-90-0	25





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Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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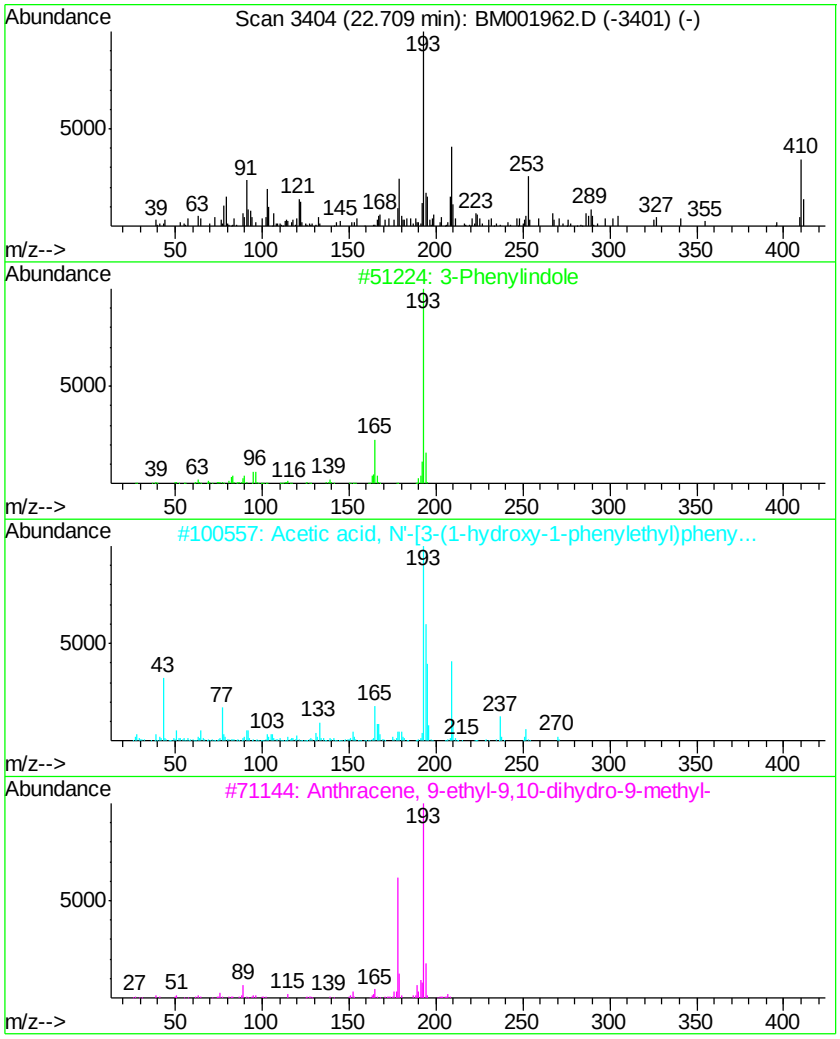
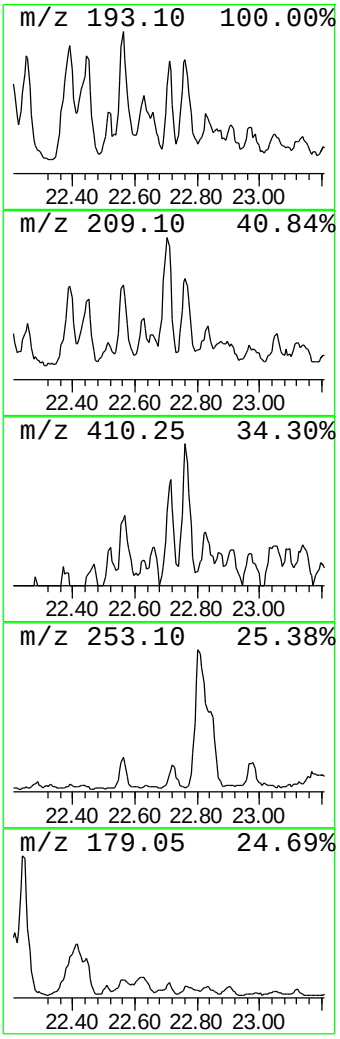
Peak Number 22 unknown-06 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.71	2.52 ng/ul	129592	Perylene-d12	23.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylindole	193	C14H11N	001504-16-1	38
2	Acetic acid, N'-[3-(1-hydroxy-1-...	270	C16H18N2O2	1000211-14-2	38
3	Anthracene, 9-ethyl-9,10-dihydro...	222	C17H18	054947-85-2	35
4	Benzenesolfonic acid, p-chloro-,...	365	C13H10Cl3NO3S	040067-38-7	35
5	3-Phenylindole	193	C14H11N	001504-16-1	35





Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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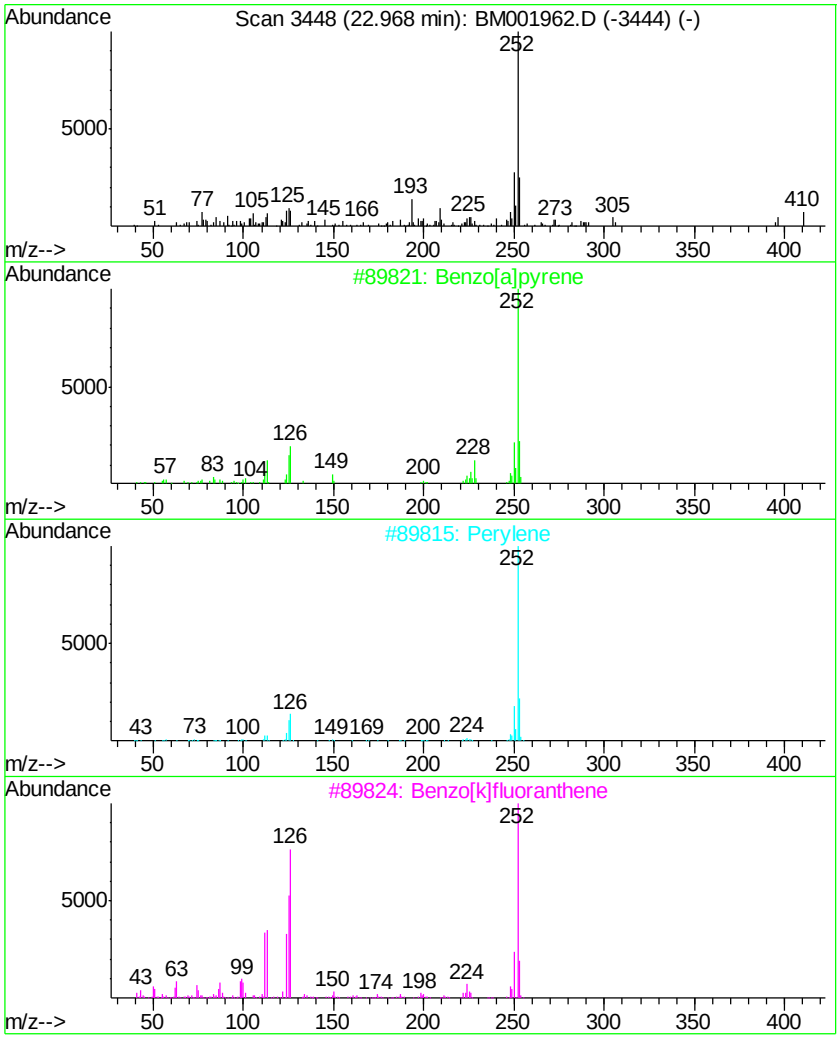
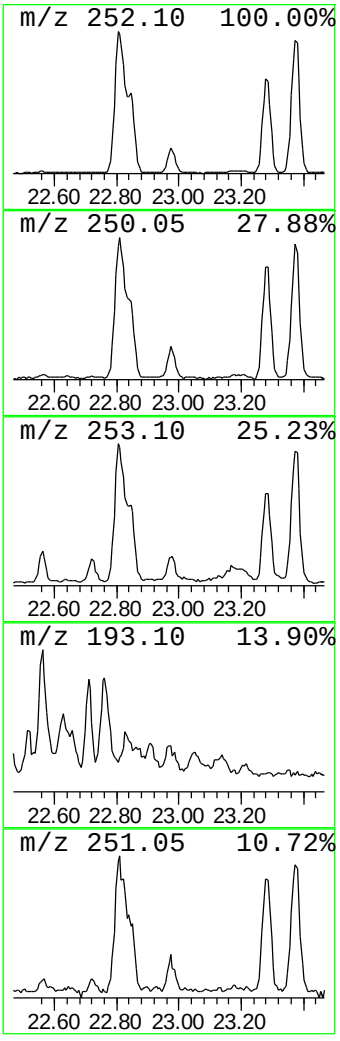
Peak Number 23 Perylene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.97	2.61 ng/ul	134000	Perylene-d12	23.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	94
2	Perylene	252	C20H12	000198-55-0	89
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	83
4	(1-Cyclopentenyl)ferrocene	252	C15H16Fe	012260-67-2	80
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\Data\BM071615\
Data File : BM001962.D
Acq On : 17 Jul 2015 00:45
Operator : TP/UM
Sample : G2998-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C01H0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071315.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.87	103.3	ng/ul	2691820	1	7.65	521074	20.0
Methyl Isobutyl K...	3.47	9.0	ng/ul	234731	1	7.65	521074	20.0
Benzene, 1,2,3-tr...	7.29	2.9	ng/ul	74281	1	7.65	521074	20.0
n-Hexadecanoic acid	17.95	5.2	ng/ul	342285	4	17.06	1309280	20.0
Phenanthrene, 1-m...	17.97	3.4	ng/ul	224038	4	17.06	1309280	20.0
Anthracene, 1-met...	18.12	4.9	ng/ul	318738	4	17.06	1309280	20.0
9,10-Dimethylanth...	18.86	2.7	ng/ul	178462	4	17.06	1309280	20.0
5.beta.,7.beta.H,...	19.00	4.3	ng/ul	280730	4	17.06	1309280	20.0
11H-Benzo[b]fluorene	19.98	2.9	ng/ul	303268	5	21.25	2124780	20.0
Benzo[b]naphtho[2...	20.90	2.4	ng/ul	259582	5	21.25	2124780	20.0
Cyclopenta[cd]pyrene	20.97	2.8	ng/ul	298035	5	21.25	2124780	20.0
7H-Benz[de]anthra...	21.02	2.0	ng/ul	216992	5	21.25	2124780	20.0
Phosphoric acid, ...	21.75	6.6	ng/ul	705321	5	21.25	2124780	20.0
Phosphoric acid, ...	21.90	11.8	ng/ul	1256650	5	21.25	2124780	20.0
Phosphoric acid, ...	22.05	9.4	ng/ul	995384	5	21.25	2124780	20.0
unknown-01	22.08	5.0	ng/ul	534578	5	21.25	2124780	20.0
unknown-02	22.21	3.8	ng/ul	403268	5	21.25	2124780	20.0
unknown-03	22.24	6.6	ng/ul	704114	5	21.25	2124780	20.0
unknown-04	22.39	5.6	ng/ul	288697	6	23.47	1027730	20.0
unknown-05	22.56	4.4	ng/ul	225920	6	23.47	1027730	20.0
unknown-06	22.71	2.5	ng/ul	129592	6	23.47	1027730	20.0
Perylene	22.97	2.6	ng/ul	134000	6	23.47	1027730	20.0