LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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-BM062216.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	6.834	714	722	736	rVB	247637	433534	3.46%	0.310%
2	6.998	744	750	758	rBV	170066	277665	2.22%	0.198%
3	7.192	775	783	793	rBV	234921	391957	3.13%	0.280%
4	7.663	856	863	871	rBV	540212	886092	7.07%	0.633%
5	8.363	975	982	989	rBV	275259	451600	3.60%	0.323%
6	8.810	1052	1058	1067	rBV	208340	365706	2.92%	0.261%
7	9.528	1175	1180	1188	rBV	165907	288474	2.30%	0.206%
8	10.063	1263	1271	1280	rBV	277827	485483	3.88%	0.347%
9	10.445	1328	1336	1340	rBV	759523	1349458	10.77%	0.964%
10	10.492	1340	1344	1353	rVV	407684	704053	5.62%	0.503%
11	10.580	1353	1359	1365	rVV	105428	229129	1.83%	0.164%
12	12.110	1612	1619	1628	rBV	218956	370995	2.96%	0.265%
13	12.333	1651	1657	1665	rVB	146797	247653	1.98%	0.177%
14	13.139	1788	1794	1800	rBV	107023	161997	1.29%	0.116%
15	13.480	1844	1852	1859	rVB2	63726	169433	1.35%	0.121%
16	13.627	1870	1877	1882	rBV	106713	189756	1.51%	0.136%
17	13.721	1888	1893	1897	rBV	379386	524534	4.19%	0.375%
18	13.768	1897	1901	1908	rVB	290607	416338	3.32%	0.297%
19	13.998	1929	1940	1952	rBV	502671	886643	7.08%	0.633%
20	14.310	1984	1993	1999	rBV2	1010023	1693108	13.51%	1.209%
21	14.374	1999	2004	2011	rVV	999915	1537298	12.27%	1.098%
22	14.510	2022	2027	2036	rBV4	165267	352176	2.81%	0.252%
23	14.710	2055	2061	2070	rVB	638840	1023791	8.17%	0.731%
24	15.304	2155	2162	2167	rBV	644468	975769	7.79%	0.697%
25	15.363	2167	2172	2179	rVB	910282	1373989	10.97%	0.981%
26	15.657	2218	2222	2234	rVB2	208391	409620	3.27%	0.293%
27	15.804	2242	2247	2255	rVV2	203154	430324	3.43%	0.307%
28	15.898	2255	2263	2269	rVB2	107114	205393	1.64%	0.147%
29	16.027	2276	2285	2295	rVB4	161132	328855	2.62%	0.235%
30	16.368	2339	2343	2347	rVB2	118178	185916	1.48%	0.133%
31	16.709	2396	2401	2408	rVB	624927	946963	7.56%	0.676%
32	16.821	2417	2420	2425	rVV3	163217	313117	2.50%	0.224%
33	16.874	2425	2429	2437	rVB	523391	791687	6.32%	0.565%
34	17.057	2454	2460	2463	rBV	1045769	1629403	13.01%	1.164%

LSC Area Percent Report

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Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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-BM062216.M
Title : SVOA CALIBRATION

35	17.104	2463	2468	2473	rVV	7651944	11623143	92.78%	8.302%
36	17.157	2473	2477	2480	rVV2	768287	1225708	9.78%	0.875%
37	17.192	2480	2483	2488	rVV	1297469	1733345	13.84%	1.238%
38	17.245	2488	2492	2499	rVB2	151516	245332	1.96%	0.175%
39	17.462	2519	2529	2534	rBV	1423885	2354933	18.80%	1.682%
40	17.580	2544	2549	2554	rBV4	98403	169854	1.36%	0.121%
41	17.639	2554	2559	2568	rVB5	144272	286181	2.28%	0.204%
42	17.933	2599	2609	2612	rBV	653192	1087353	8.68%	0.777%
43	17.980	2612	2617	2623	rVV2	1081628	2070577	16.53%	1.479%
44	18.056	2624	2630	2636	rVV2	224891	405895	3.24%	0.290%
45	18.127	2636	2642	2646	rVV3	1116827	1898205	15.15%	1.356%
46	18.162	2646	2648	2656	rVV	341507	466881	3.73%	0.333%
47	18.280	2664	2668	2672	rVB2	136967	193672	1.55%	0.138%
48	18.439	2688	2695	2698	rBV	532458	819455	6.54%	0.585%
49	18.474	2698	2701	2707	rVB	1047616	1380892	11.02%	0.986%
50	18.686	2733	2737	2741	rVV3	142204	192353	1.54%	0.137%
51	18.733	2741	2745	2749	rVV	116502	167370	1.34%	0.120%
52	18.856	2761	2766	2771	rBV	356715	575378	4.59%	0.411%
53	18.915	2771	2776	2779	rVV4	141028	288249	2.30%	0.206%
54	18.956	2779	2783	2785	rVV2	179442	283626	2.26%	0.203%
55	18.992	2785	2789	2798	rVB2	524469	937280	7.48%	0.669%
56	19.121	2805	2811	2818	rVB	8312324	12527838	100.00%	8.948%
57	19.192	2819	2823	2825	rBV	133996	200001	1.60%	0.143%
58	19.215	2825	2827	2830	rVV	172754	224436	1.79%	0.160%
59	19.268	2830	2836	2840	rVB3	364431	618373	4.94%	0.442%
60	19.327	2840	2846	2849	rBV3	186795	405366	3.24%	0.290%
61	19.362	2849	2852	2857	rVB	263574	362397	2.89%	0.259%
62	19.456	2862	2868	2869	rBV2	2123908	2660835	21.24%	1.900%
63	19.486	2869	2873	2880	rVV	6431378	9556521	76.28%	6.826%
64	19.556	2881	2885	2891	rVB	305353	463410	3.70%	0.331%
65	19.609	2891	2894	2897	rBV2	140553	161909	1.29%	0.116%
66	19.662	2899	2903	2908	rBV	397974	589776	4.71%	0.421%
67	19.721	2908	2913	2919	rVB2	715068	1101189	8.79%	0.787%
68	19.815	2922	2929	2934	rBV3	422127	1130077	9.02%	0.807%
69	19.862	2934	2937	2941	rVB	283629	355231	2.84%	0.254%
70	19.945	2946	2951	2953	rVV4	277352	489912	3.91%	0.350%
71	19.980	2953	2957	2961	rVB	965970	1315963	10.50%	0.940%

LSC Area Percent Report

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Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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-BM062216.M
Title : SVOA CALIBRATION

72	20.027	2961	2965	2969	rBV2	287611	365792	2.92%	0.261%
73	20.080	2970	2974	2978	rBV	501462	675672	5.39%	0.483%
74	20.139	2978	2984	2988	rVV2	527822	919582	7.34%	0.657%
75	20.180	2988	2991	2995	rVB	314549	389065	3.11%	0.278%
76	20.280	3001	3008	3011	rBV3	224664	470153	3.75%	0.336%
77	20.327	3011	3016	3024	rVB2	298017	626822	5.00%	0.448%
78	20.574	3055	3058	3063	rVB5	263889	312344	2.49%	0.223%
79	20.727	3080	3084	3091	rVB	1327487	1747074	13.95%	1.248%
80	20.892	3106	3112	3116	rBV2	1040518	1852373	14.79%	1.323%
81	20.933	3116	3119	3122	rVV	670241	887082	7.08%	0.634%
82	20.974	3122	3126	3131	rVV2	779728	1607436	12.83%	1.148%
83	21.027	3131	3135	3143	rVB2	1096107	1591711	12.71%	1.137%
84	21.133	3150	3153	3157	rBV	274999	355134	2.83%	0.254%
85	21.174	3157	3160	3163	rVV	1053417	1222001	9.75%	0.873%
86	21.239	3166	3171	3176	rVV3	4309515	8464895	67.57%	6.046%
87	21.286	3176	3179	3189	rVB	3712874	5267896	42.05%	3.763%
88	21.403	3196	3199	3204	rBV	678308	910797	7.27%	0.651%
89	21.509	3215	3217	3221	rVB	439974	502698	4.01%	0.359%
90	21.562	3221	3226	3231	rBV2	761521	1183464	9.45%	0.845%
91	21.850	3271	3275	3280	rVB2	516552	760434	6.07%	0.543%
92	21.991	3295	3299	3303	rBV	1714512	2319796	18.52%	1.657%
93	22.809	3432	3438	3443	rBV	3149908	7517125	60.00%	5.369%
94	22.974	3462	3466	3475	rVB	525572	895058	7.14%	0.639%
95	23.280	3513	3518	3524	rBV	1712562	3191673	25.48%	2.280%
96	23.374	3529	3534	3541	rVB	2541041	4613148	36.82%	3.295%
97	23.468	3546	3550	3554	rVV	735348	1434070	11.45%	1.024%
98	23.515	3555	3558	3566	rVB2	797719	1487905	11.88%	1.063%
99	25.691	3920	3928	3940	rVB	1409550	4138038	33.03%	2.956%
100	26.374	4036	4044	4054	rVB2	909440	2703206	21.58%	1.931%

Sum of corrected areas: 140009269

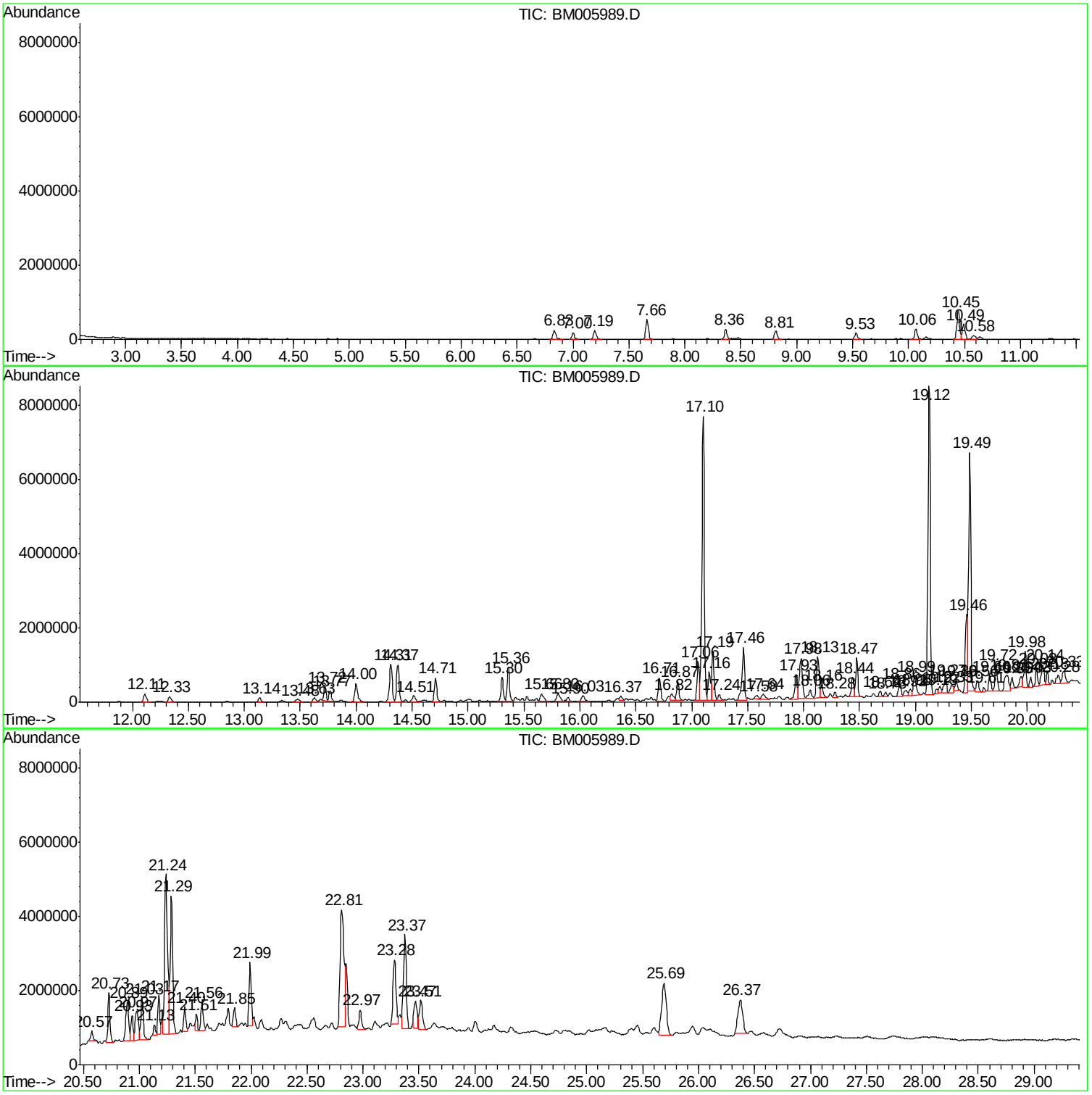
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

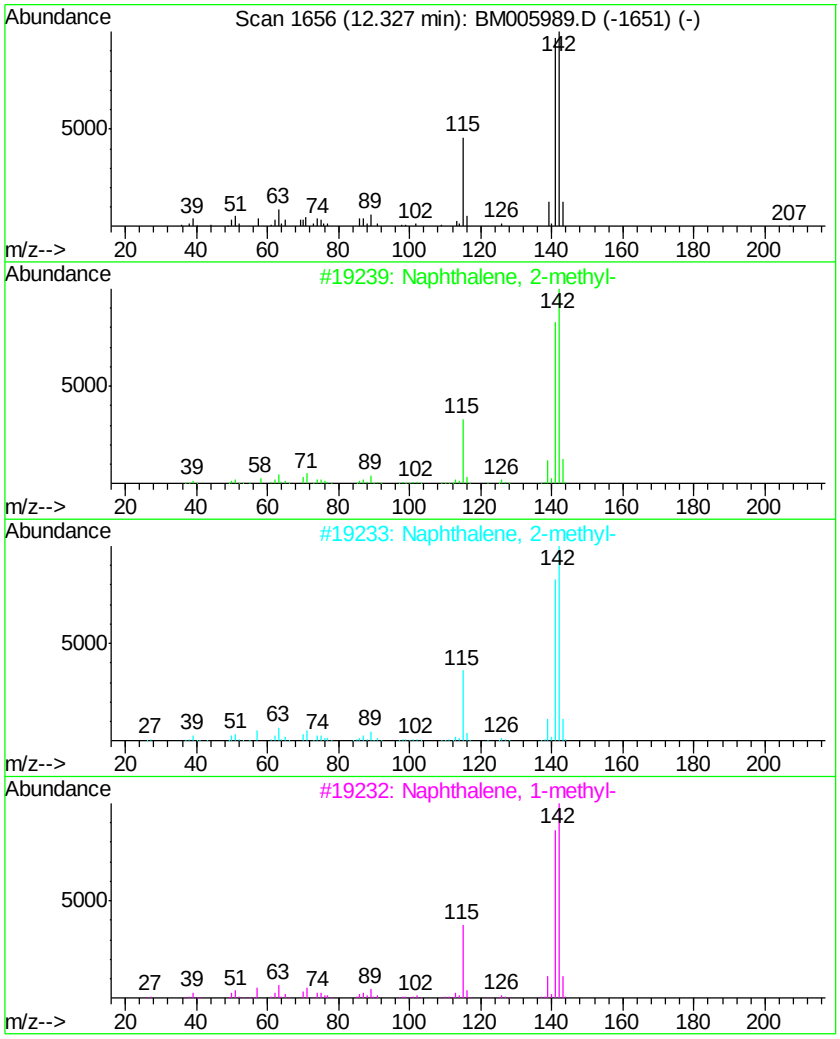
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

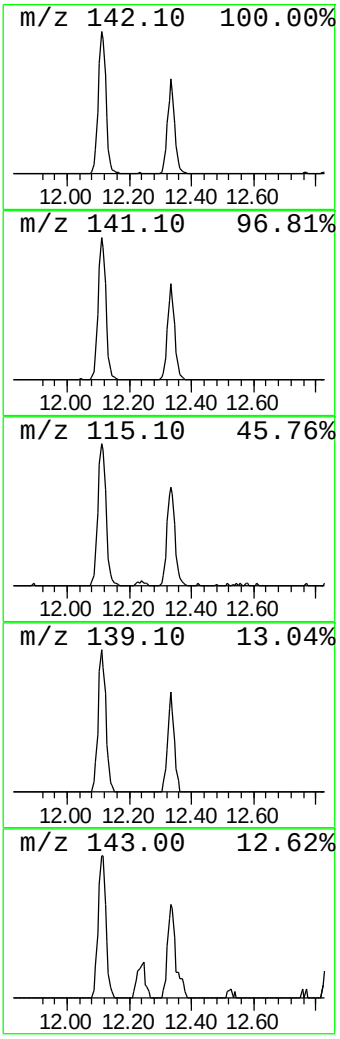
****

Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	3.67 ng/ul	247653	Naphthalene-d8	10.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

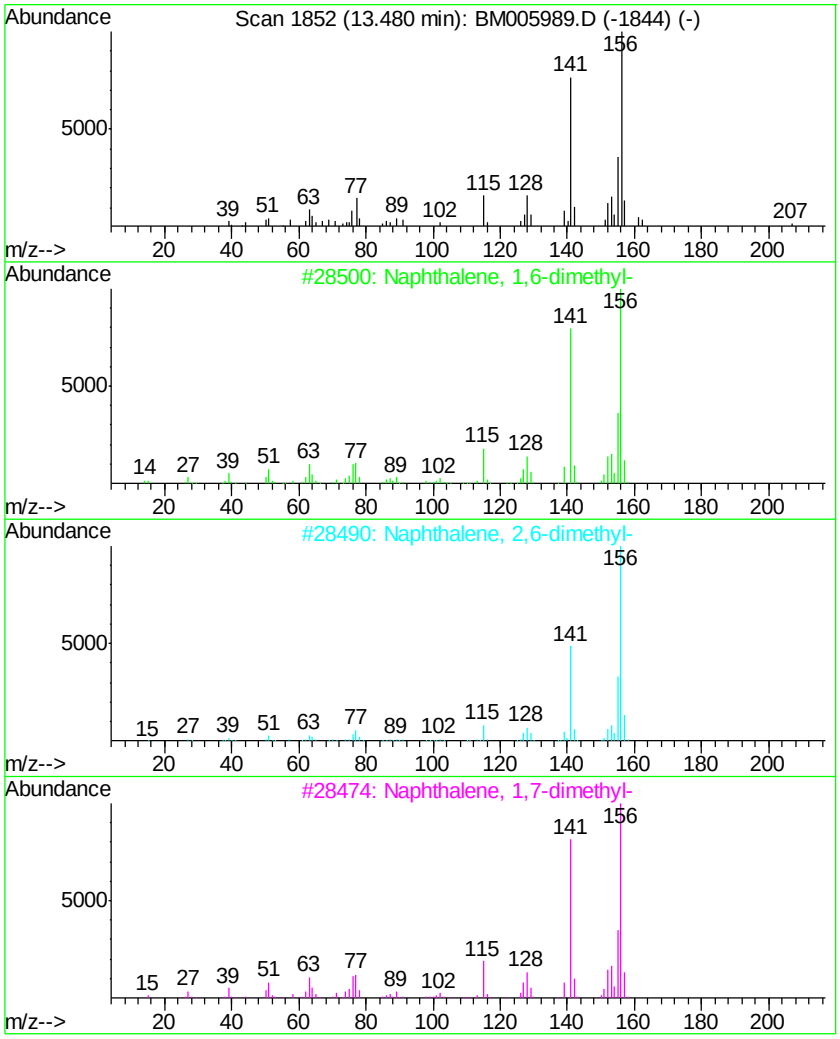
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

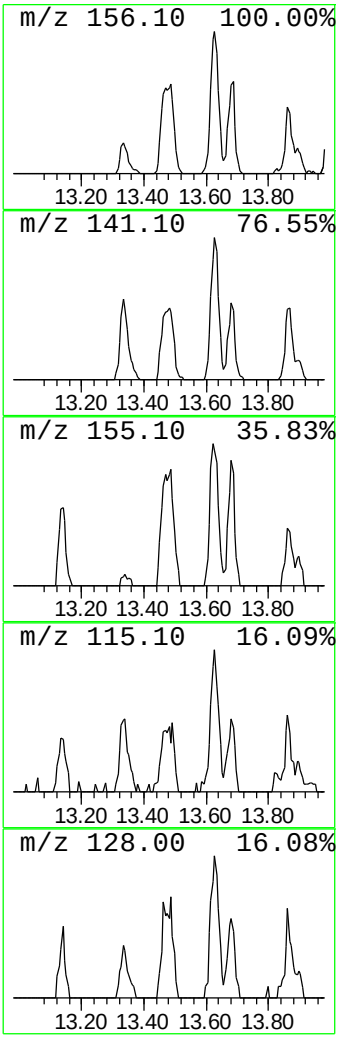
****

Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.48	2.00 ng/ul	169433	Acenaphthene-d10	14.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

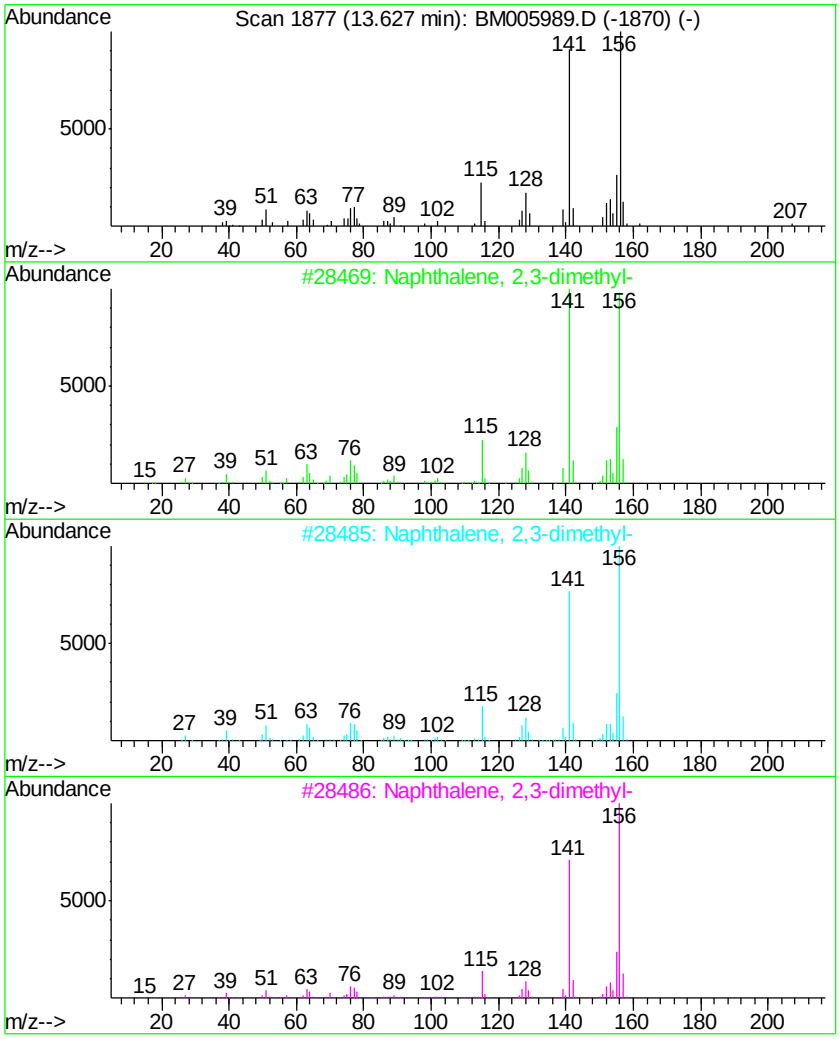
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

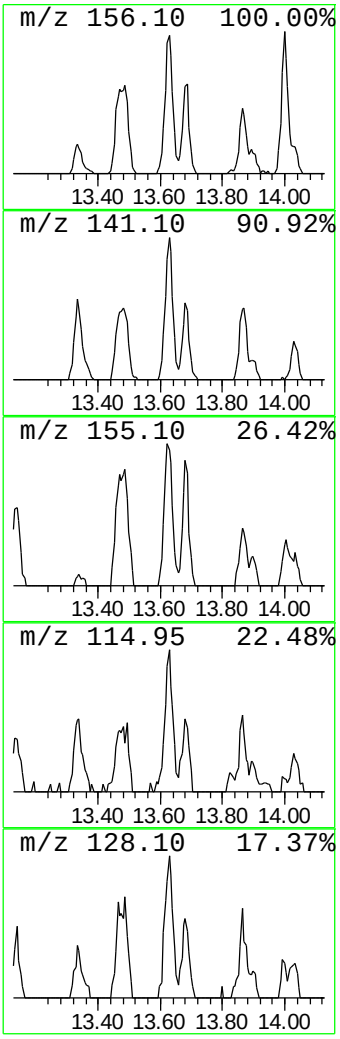
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.63	2.24 ng/ul	189756	Acenaphthene-d10	14.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

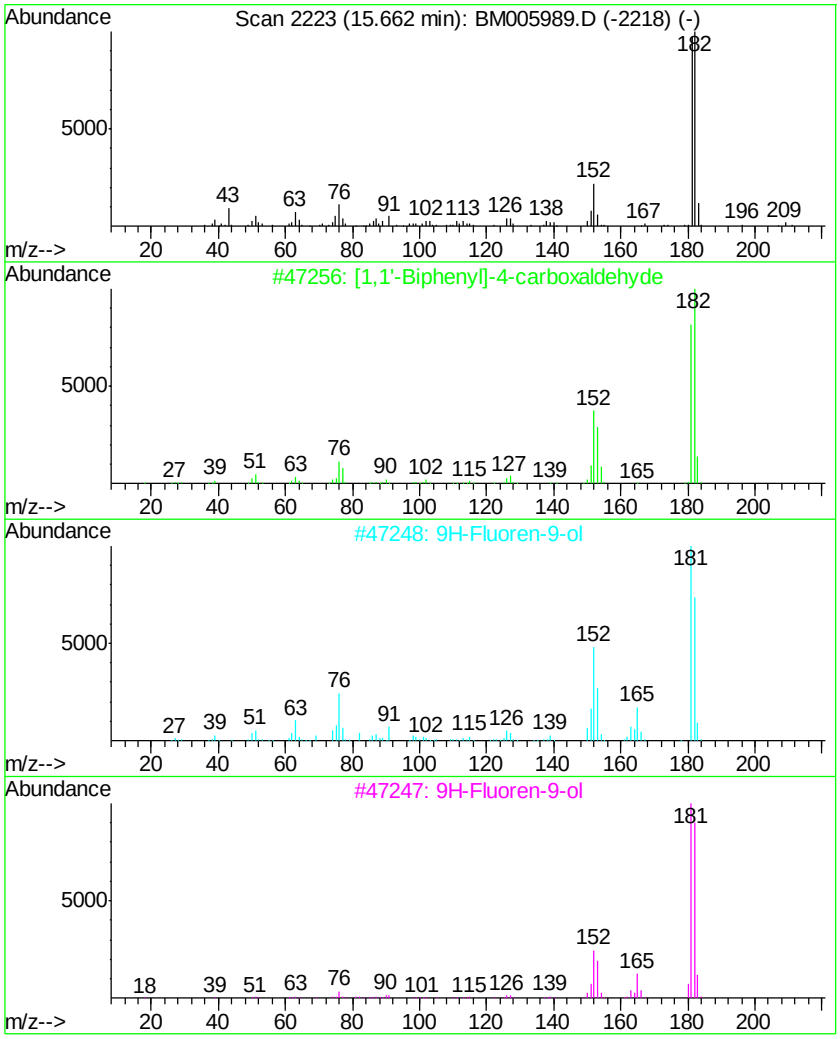
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

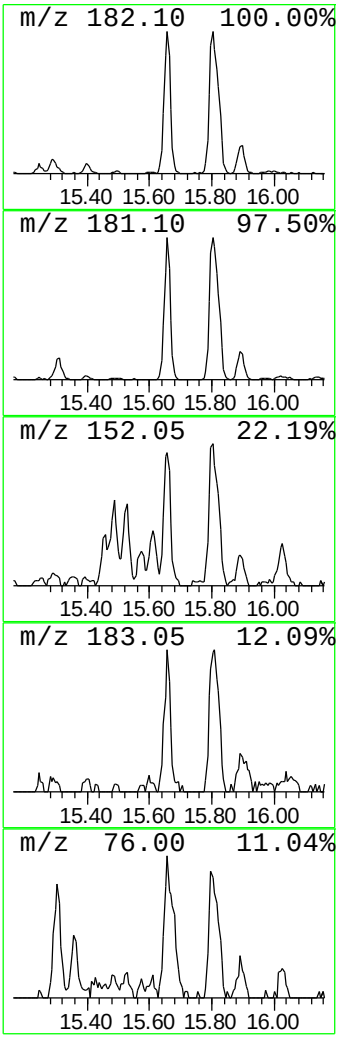
****

Peak Number 4 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.66	4.84 ng/ul	409620	Acenaphthene-d10	14.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

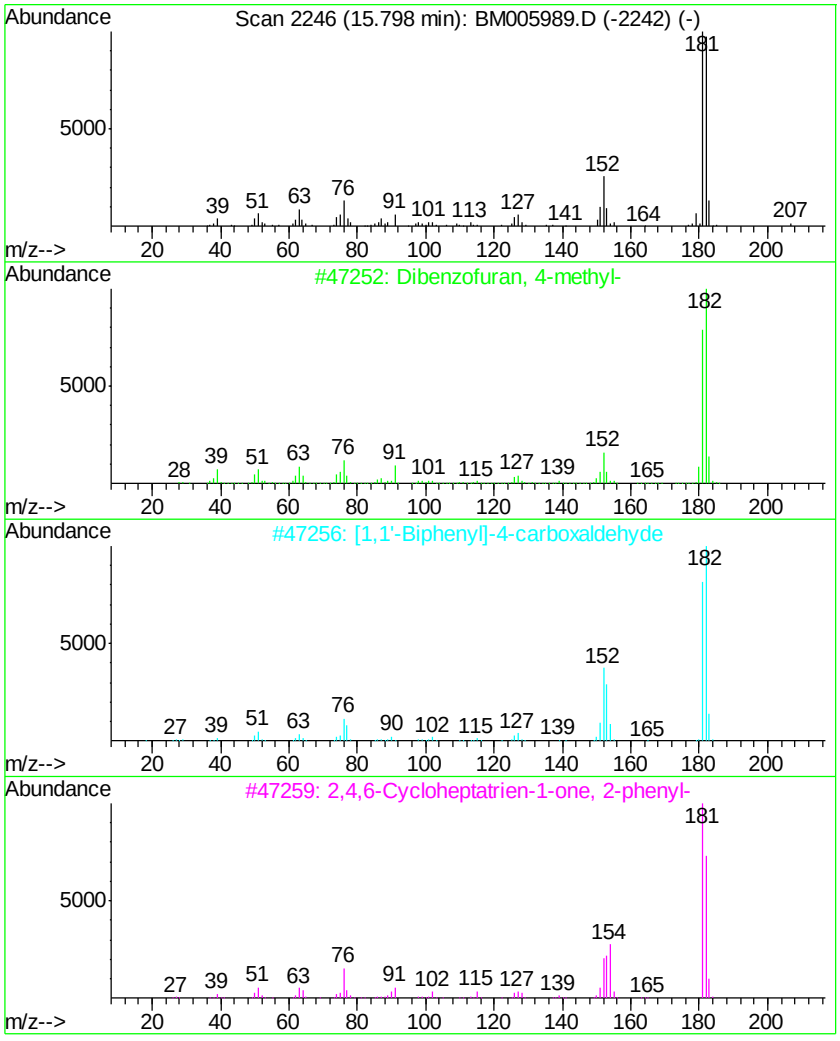
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

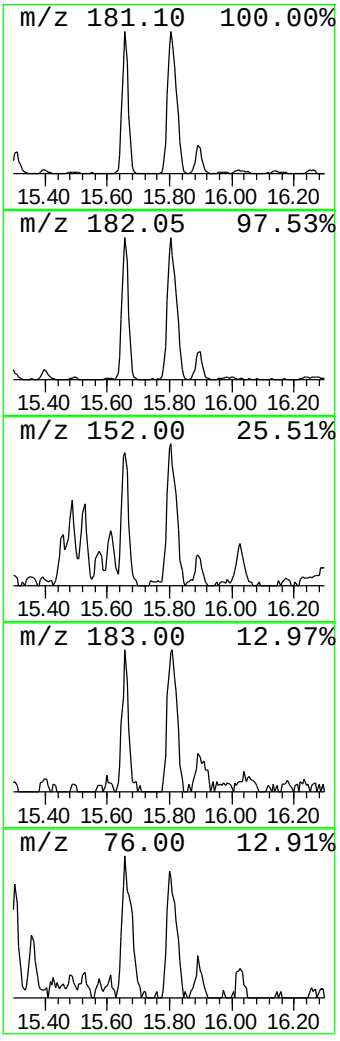
****

Peak Number 5 Dibenzofuran, 4-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.80	5.28 ng/ul	430324	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	93
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	53





Library Search Compound Report

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Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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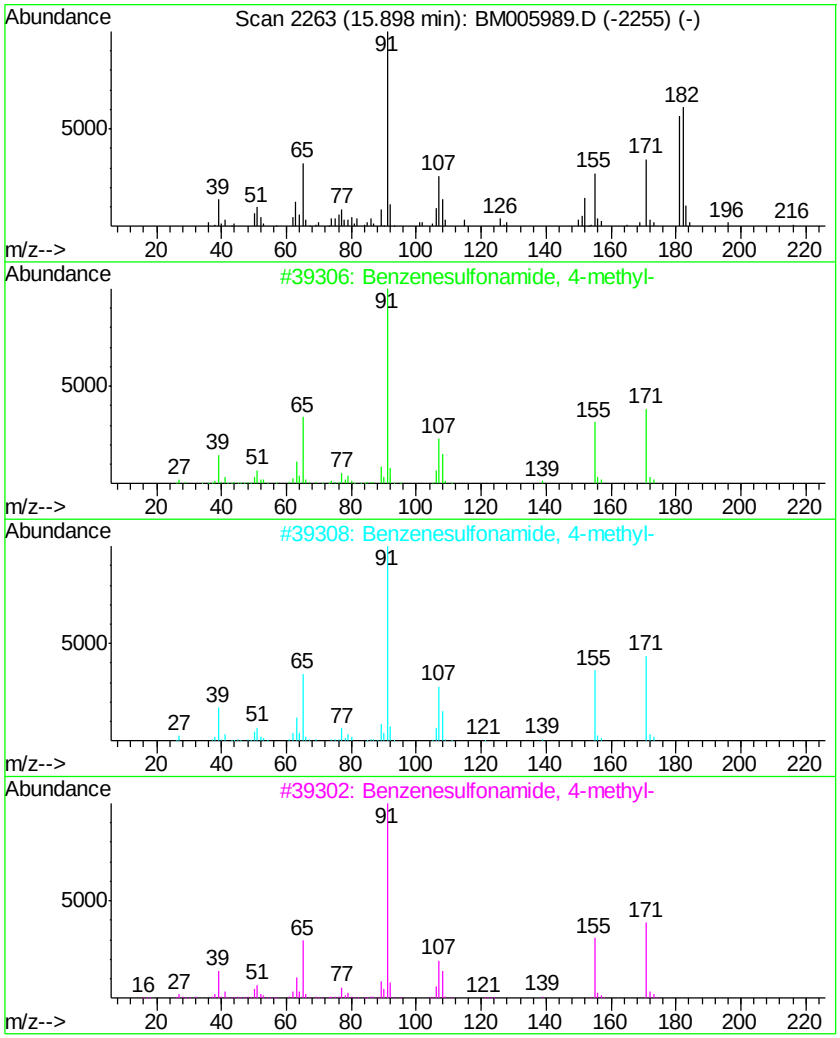
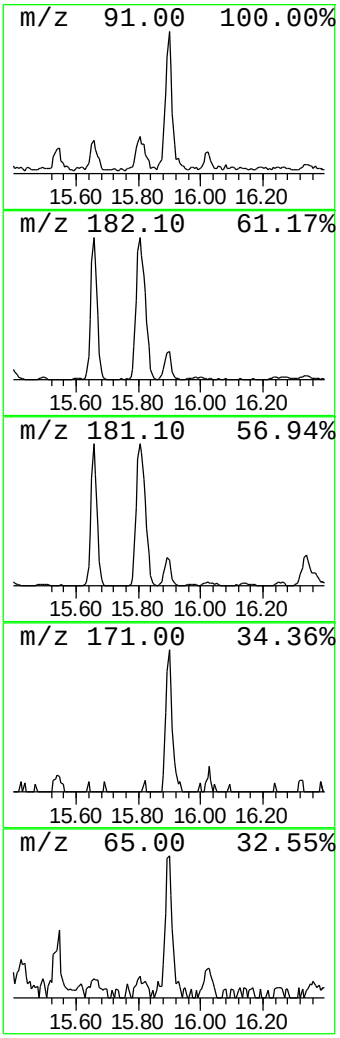
Peak Number 6 Benzenesulfonamide, 4-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	2.52 ng/ul	205393	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenesulfonamide, 4-methyl-	171	C7H9NO2S	000070-55-3	94
2	Benzenesulfonamide, 4-methyl-	171	C7H9NO2S	000070-55-3	94
3	Benzenesulfonamide, 4-methyl-	171	C7H9NO2S	000070-55-3	94
4	Benzenesulfonamide, 4-methyl-	171	C7H9NO2S	000070-55-3	94
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	43





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Sample : H3612-14 5X
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ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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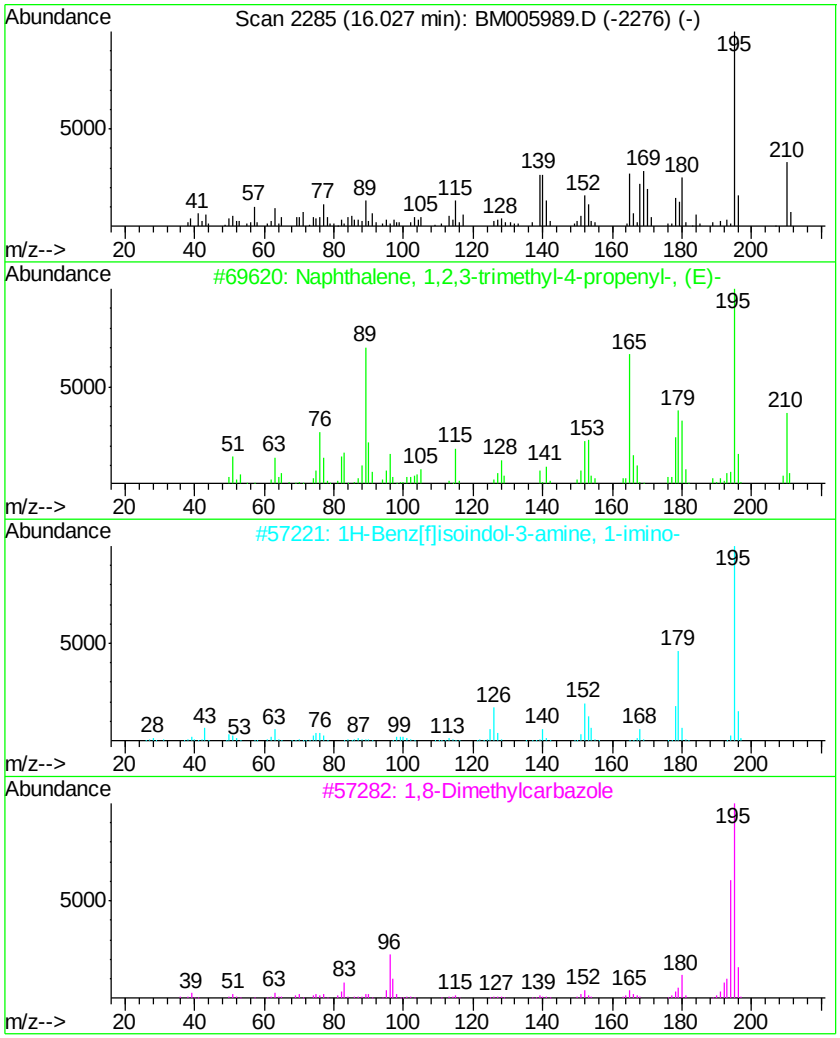
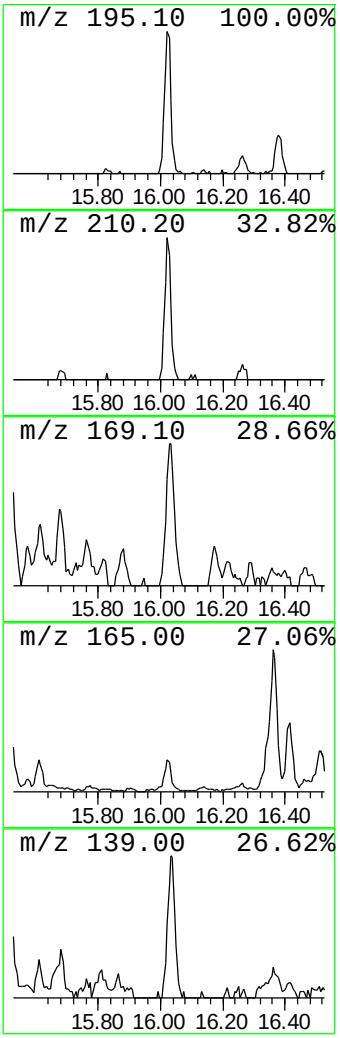
Peak Number 7 Naphthalene, 1,2,3-trimethy... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.03	4.04 ng/ul	328855	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3-trimethyl-4-p...	210	C16H18	026137-53-1	60
2	1H-Benz[f]isoindol-3-amine, 1-im...	195	C12H9N3	065558-69-2	38
3	1,8-Dimethylcarbazole	195	C14H13N	1000328-39-0	38
4	4-Amino-9-fluorenone	195	C13H9NO	004269-15-2	38
5	Benzo[c]cinnolin-2-amine	195	C12H9N3	004827-07-0	38





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ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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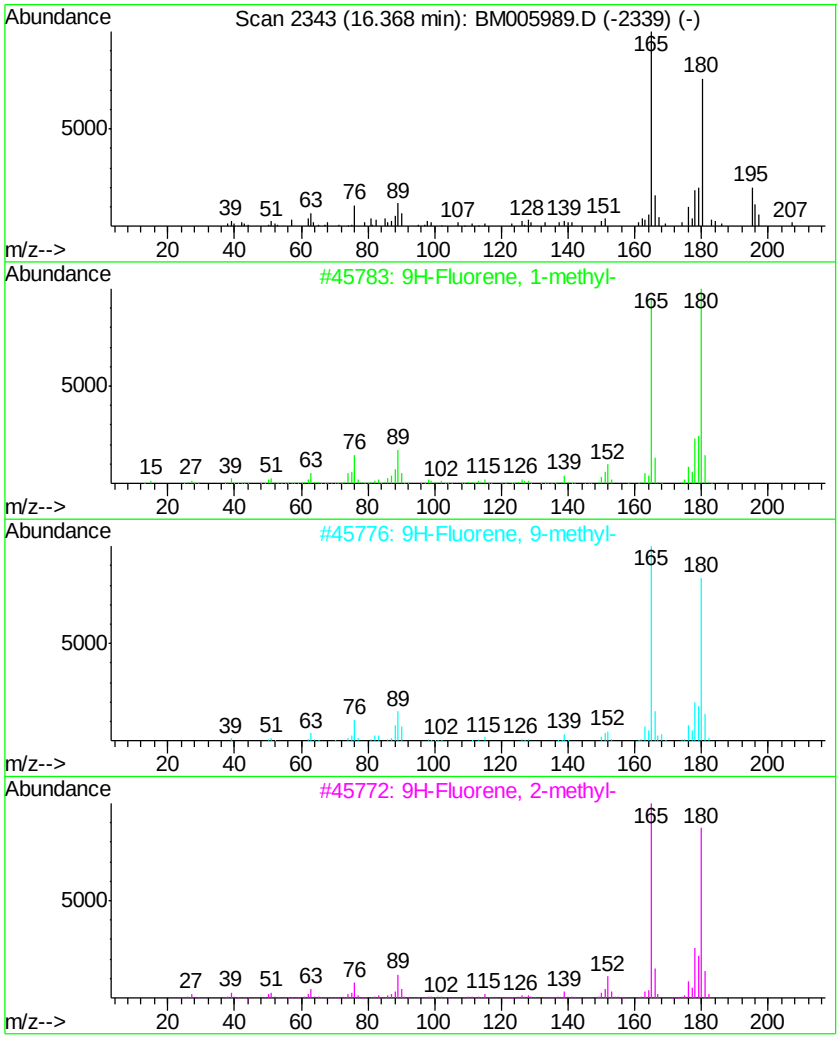
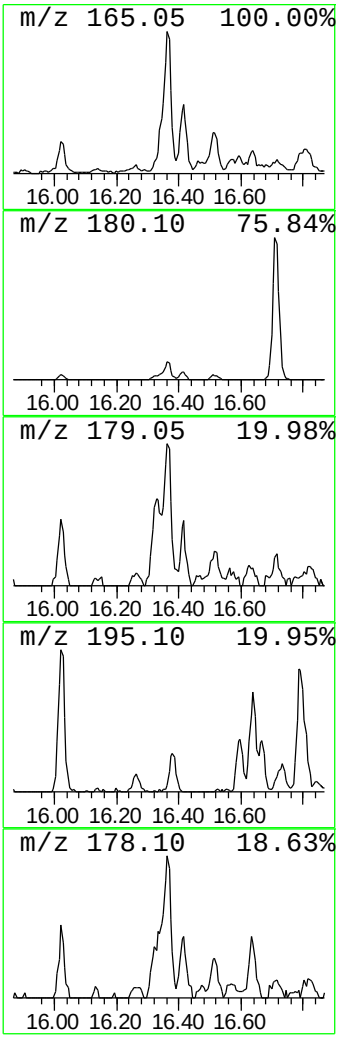
Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	2.28 ng/ul	185916	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	81
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	76
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	74





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ALS Vial : 24 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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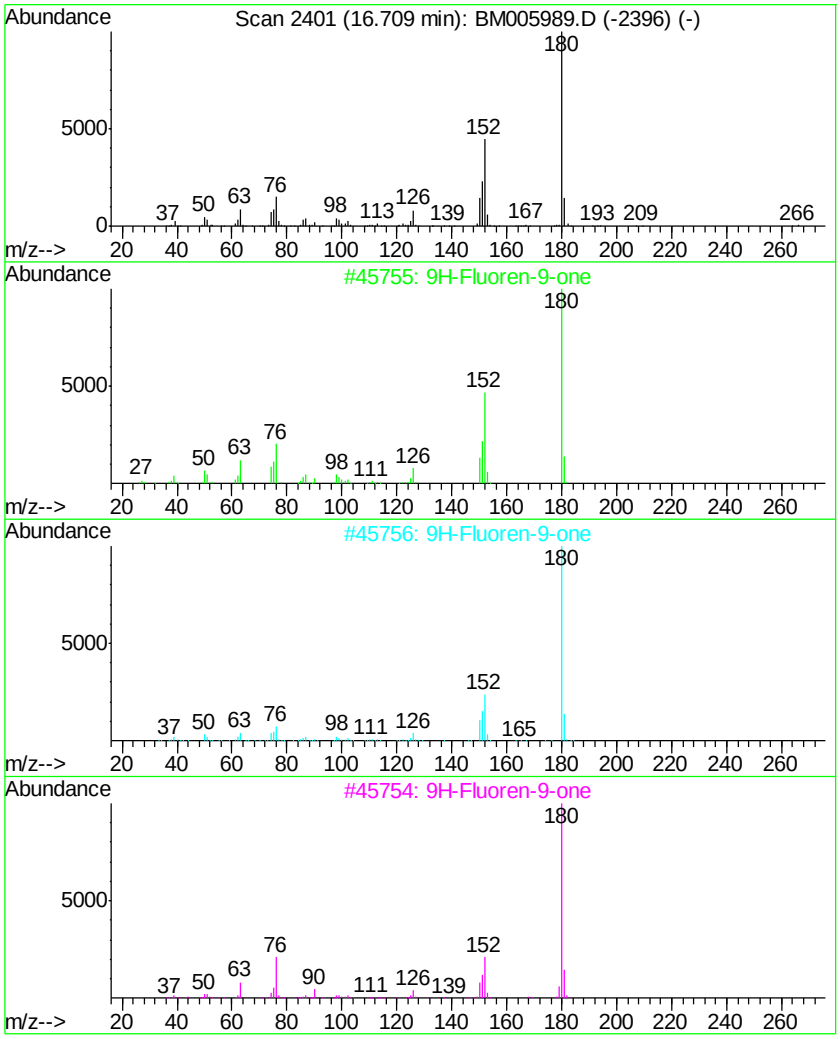
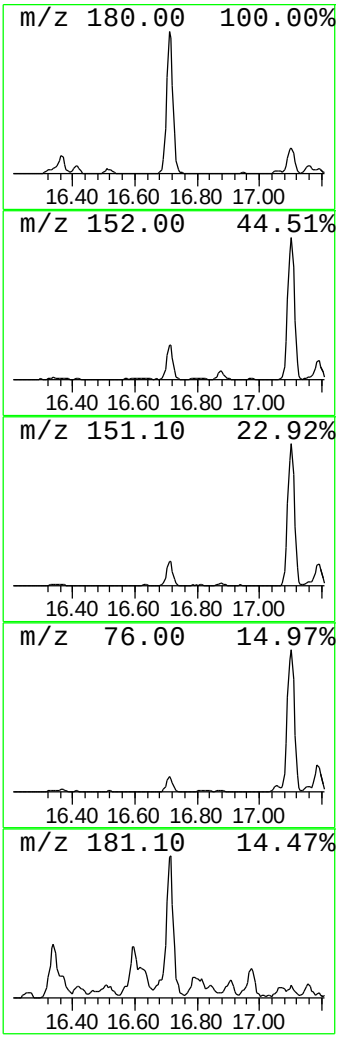
Peak Number 9 9H-Fluoren-9-one Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.71	11.62 ng/ul	946963	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	90





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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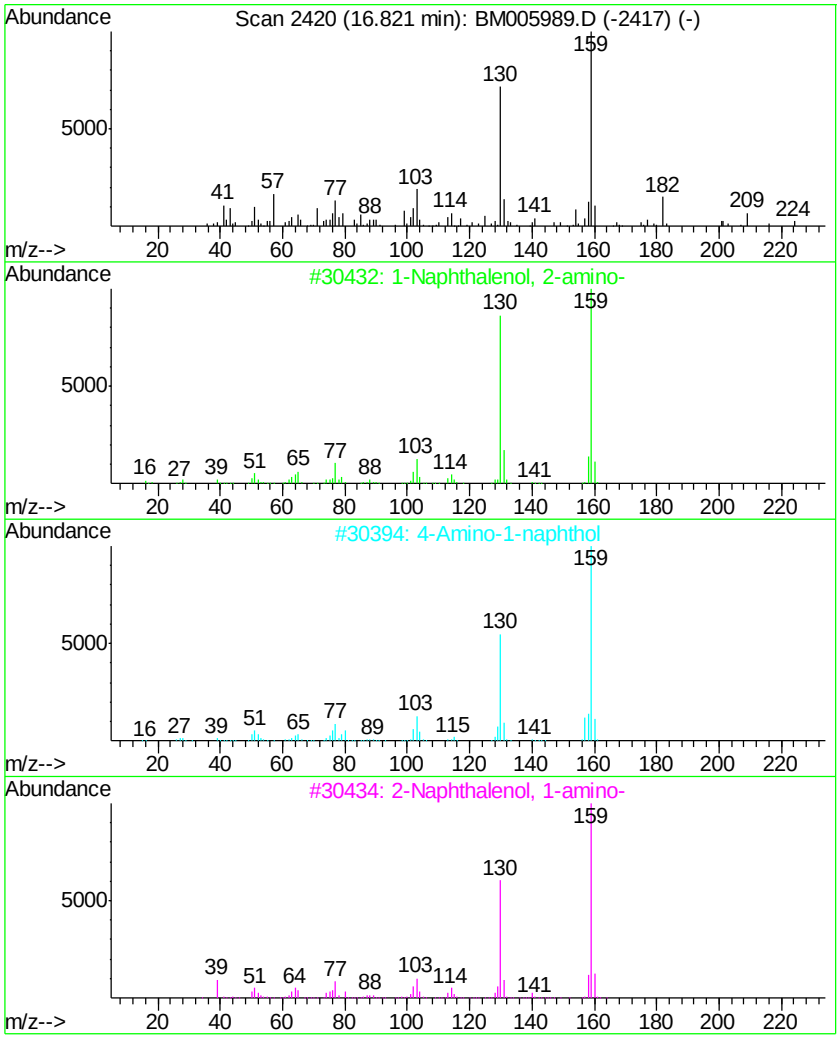
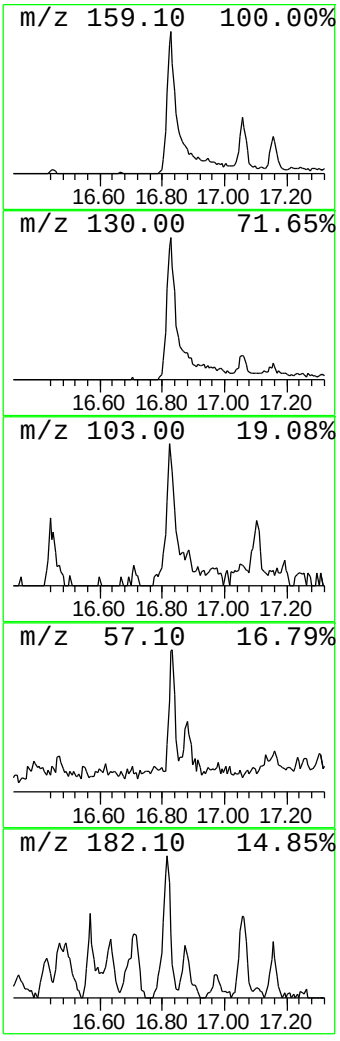
Peak Number 10 1-Naphthalenol, 2-amino- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.82	3.84 ng/ul	313117	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenol, 2-amino-	159	C10H9NO	000606-41-7	94
2	4-Amino-1-naphthol	159	C10H9NO	002834-90-4	90
3	2-Naphthalenol, 1-amino-	159	C10H9NO	002834-92-6	87
4	2-Naphthalenol, 1-amino-	159	C10H9NO	002834-92-6	87
5	5-Amino-1-naphthol	159	C10H9NO	000083-55-6	87





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Misc :
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Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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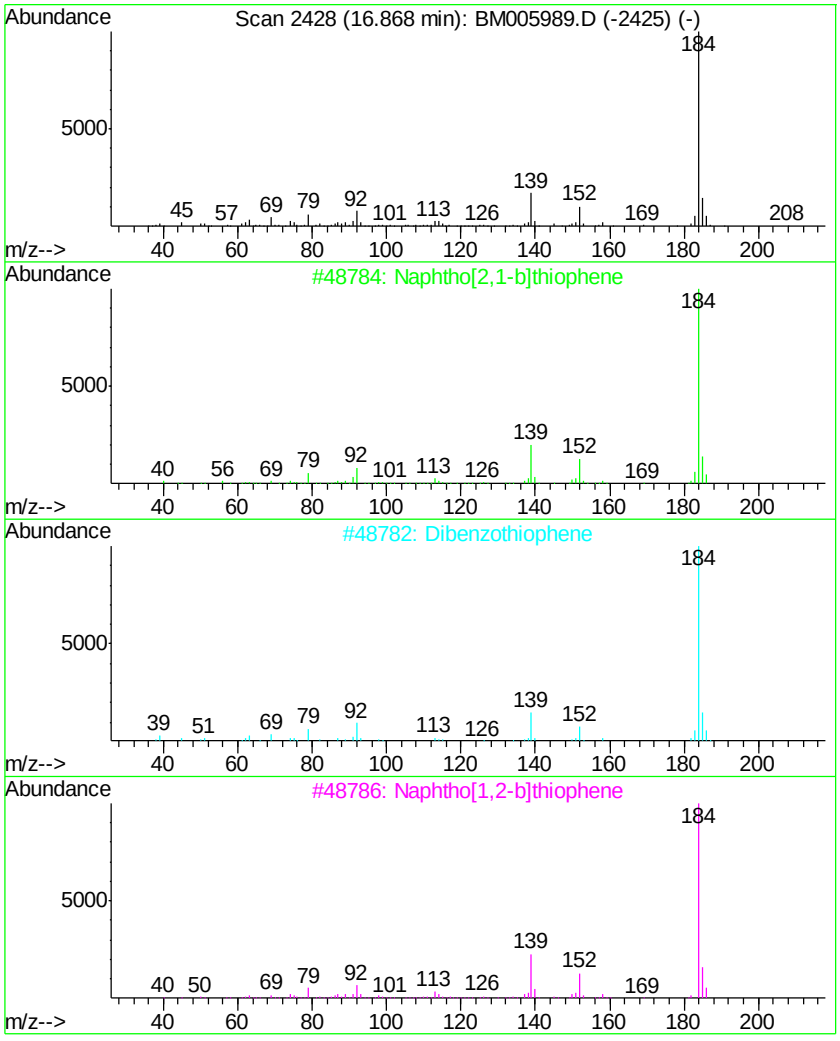
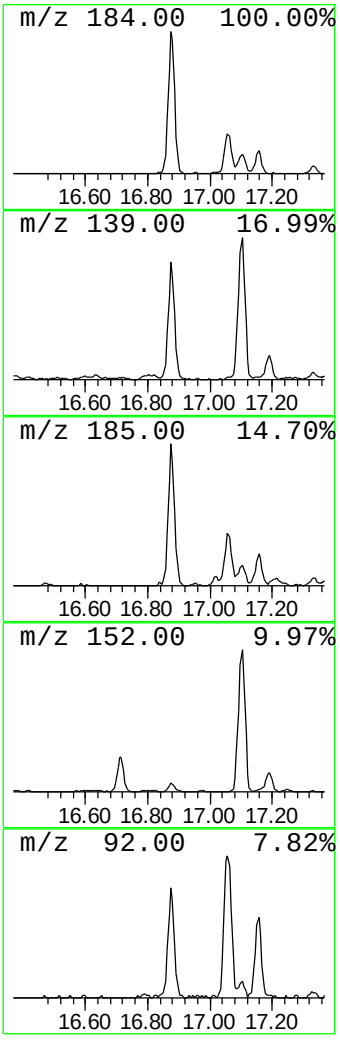
Peak Number 11 Naphtho[2,1-b]thiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.87	9.72 ng/ul	791687	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Dibenzothiophene	184	C12H8S	000132-65-0	95





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Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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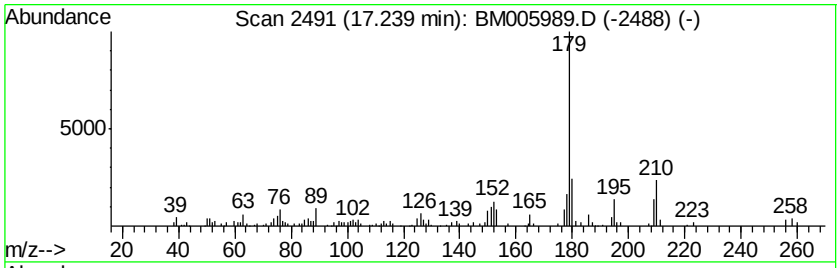
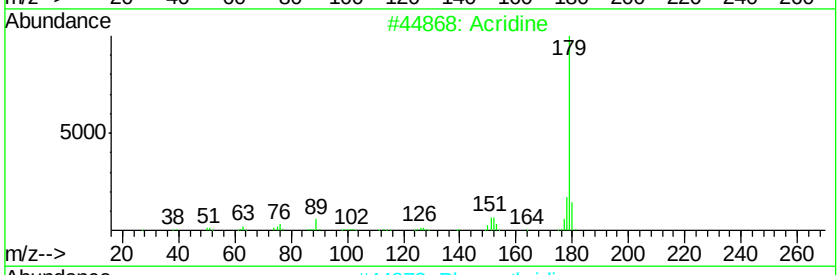
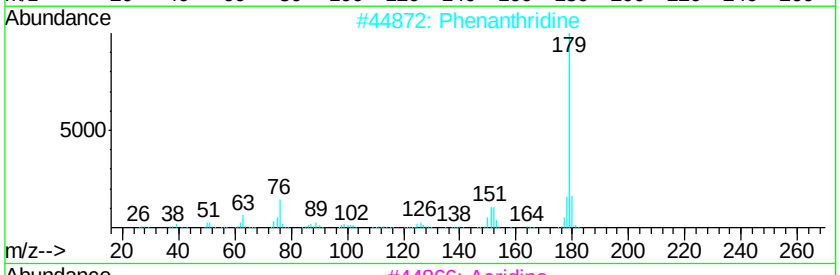
Peak Number 12 Acridine Concentration Rank 28

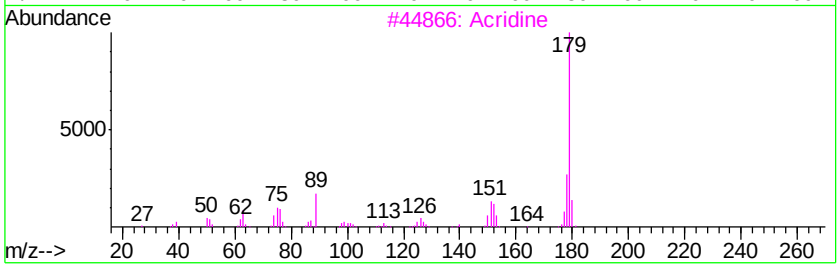
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.24	3.01 ng/ul	245332	Phenanthrene-d10	17.06

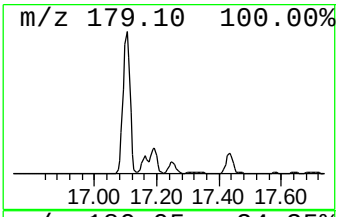
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	89
2	Phenanthridine	179	C13H9N	000229-87-8	86
3	Acridine	179	C13H9N	000260-94-6	76
4	Benzo[f]quinoline	179	C13H9N	000085-02-9	70
5	Acridine	179	C13H9N	000260-94-6	70

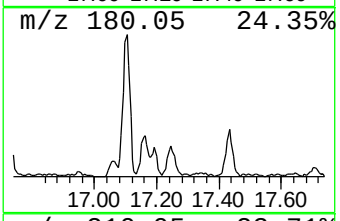


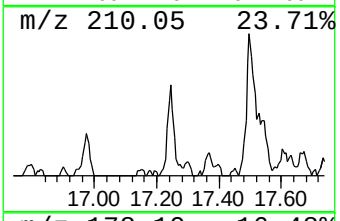


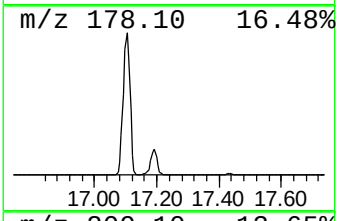


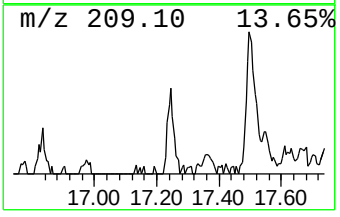












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Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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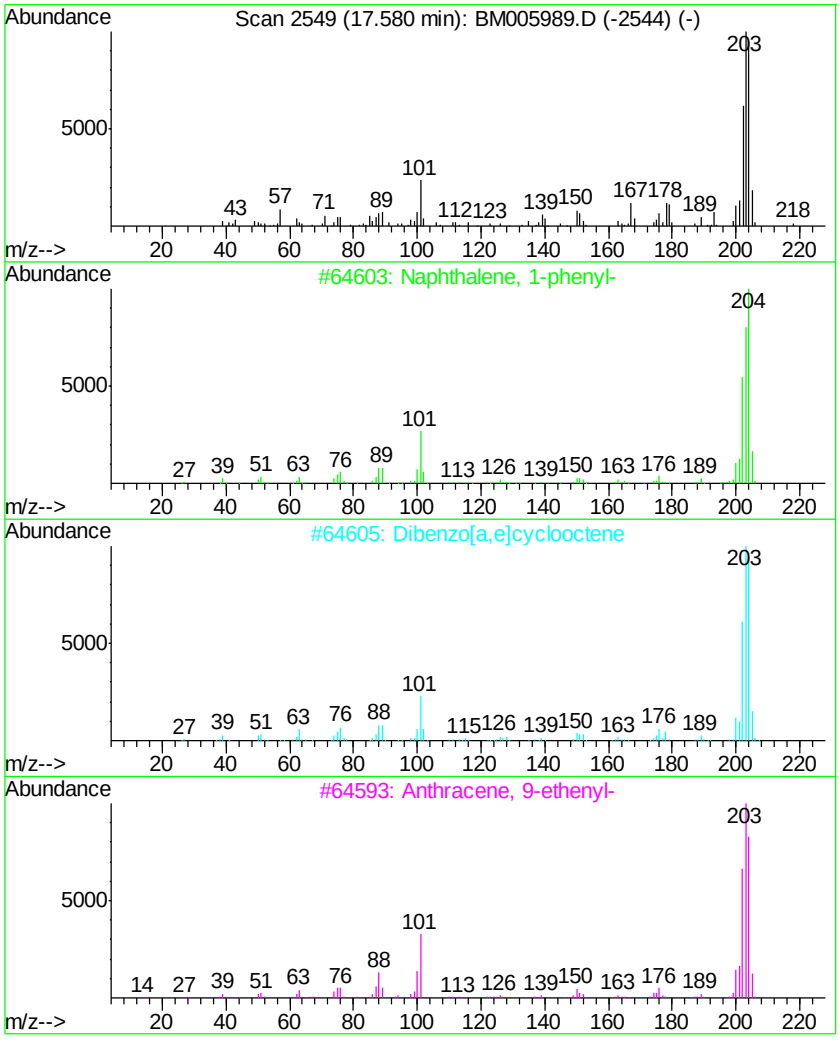
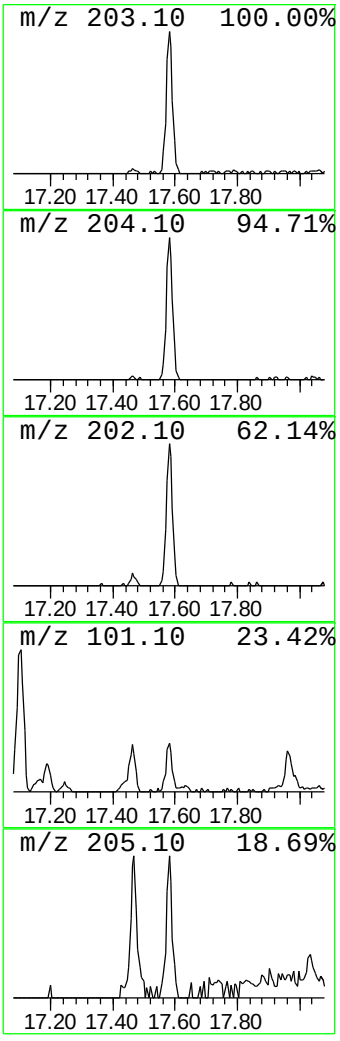
Peak Number 13 Naphthalene, 1-phenyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.58	2.08 ng/ul	169854	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	86
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	70
4	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	70
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	70





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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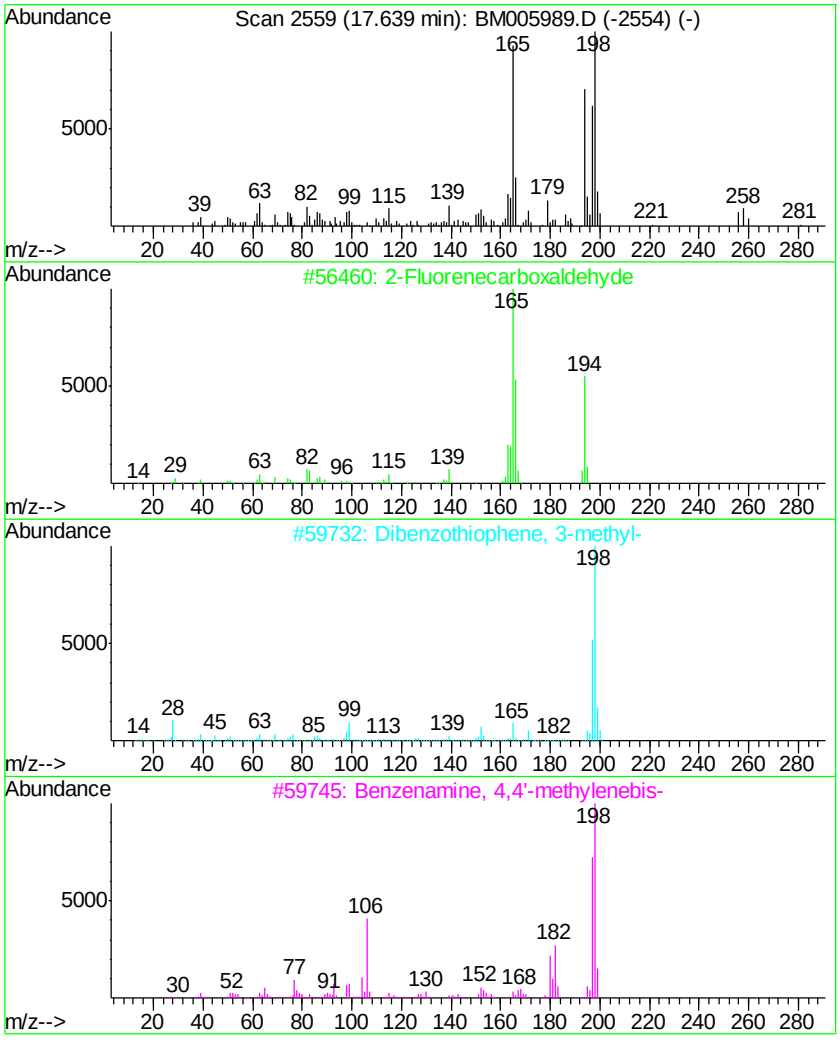
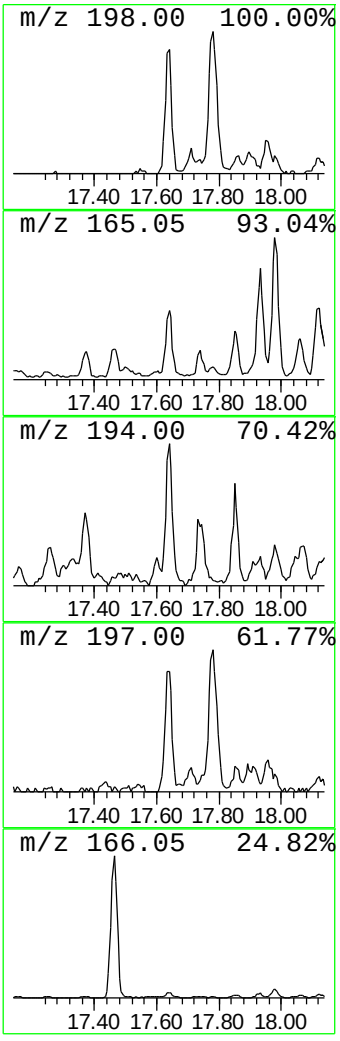
Peak Number 14 2-Fluorenecarboxaldehyde Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.64	3.51 ng/ul	286181	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Fluorenecarboxaldehyde	194	C14H10O	030084-90-3	51
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	50
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	46
4	Thiazolo[5,4-d]pyrimidine, 5-ami...	198	C6H6N4S2	019835-31-5	46
5	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	45





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Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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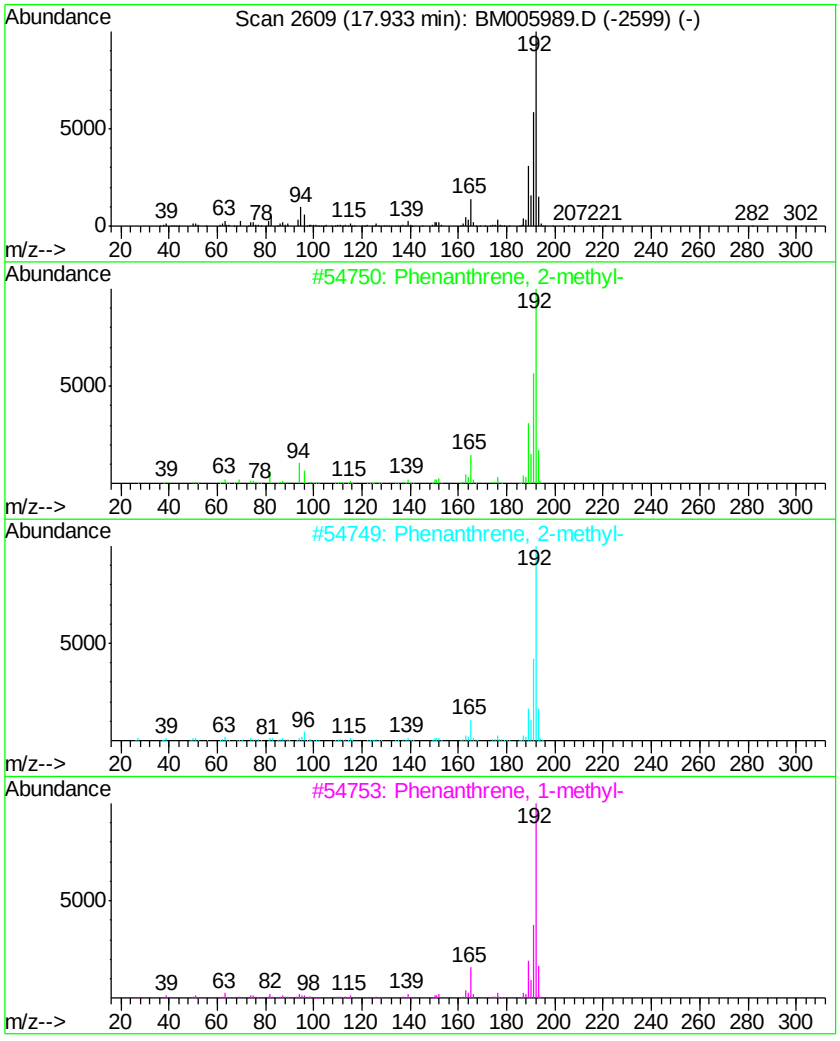
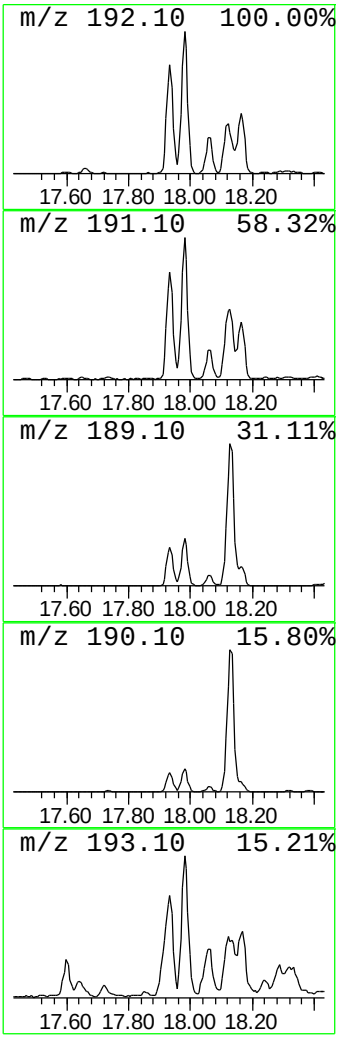
Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.93	13.35 ng/ul	1087350	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

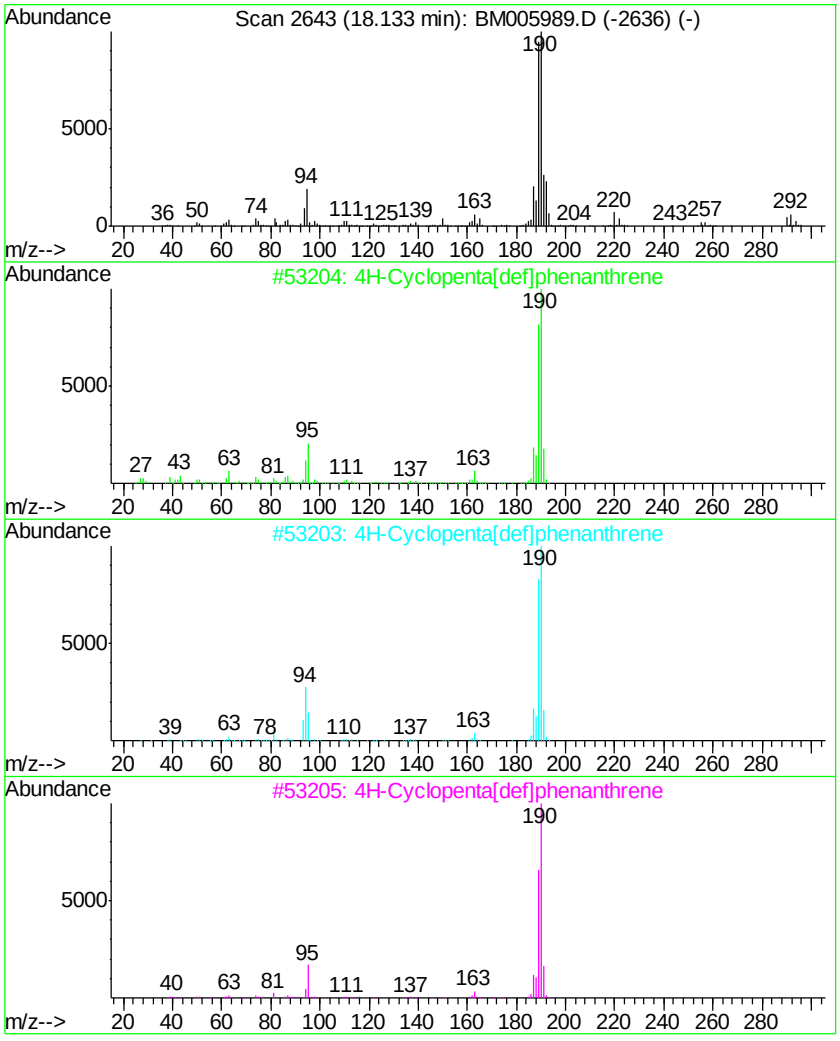
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

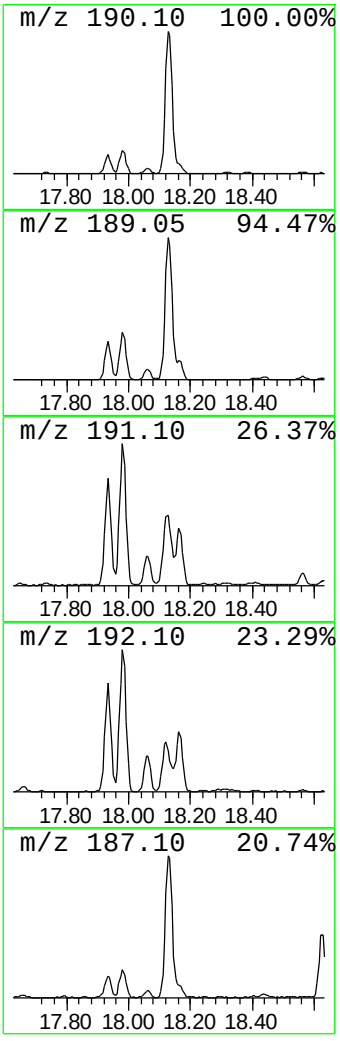
****

Peak Number 18 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.13	23.30 ng/ul	1898210	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	74
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	43





Library Search Compound Report

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Sample : H3612-14 5X
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ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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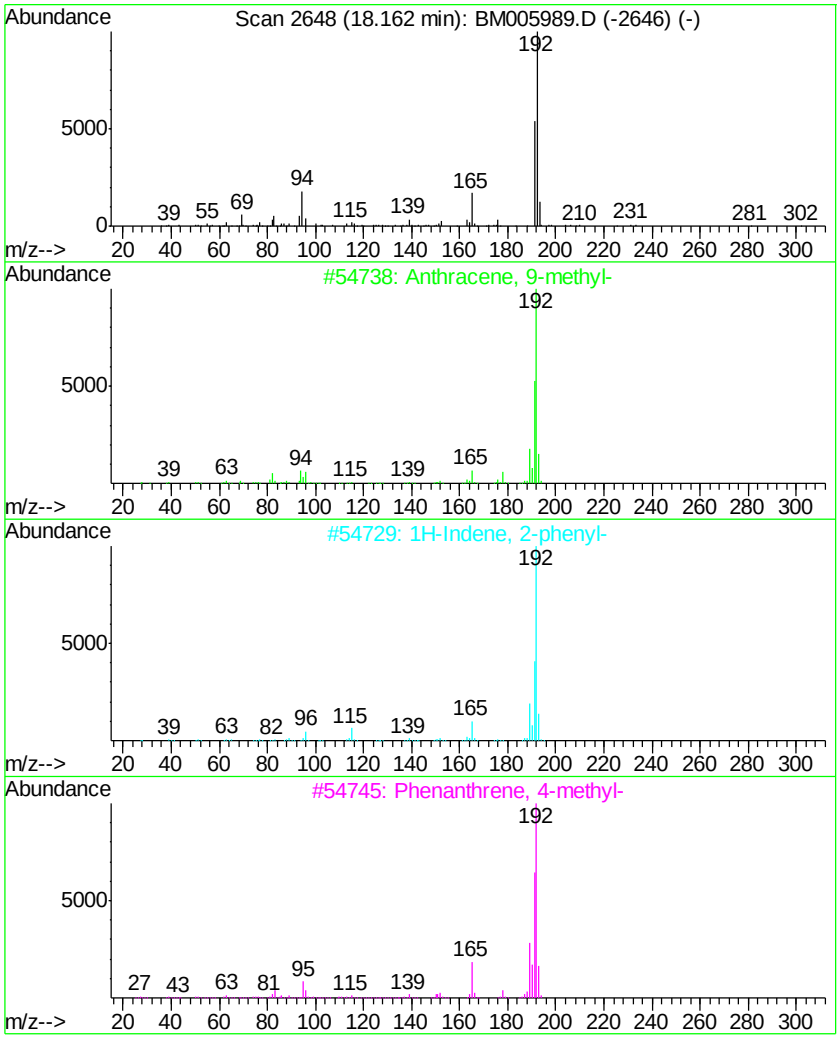
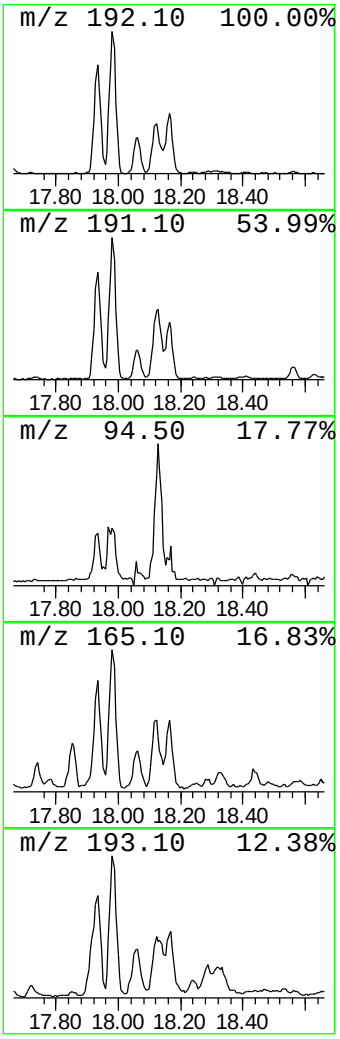
Peak Number 19 Anthracene, 9-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.16	5.73 ng/ul	466881	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	81
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	76
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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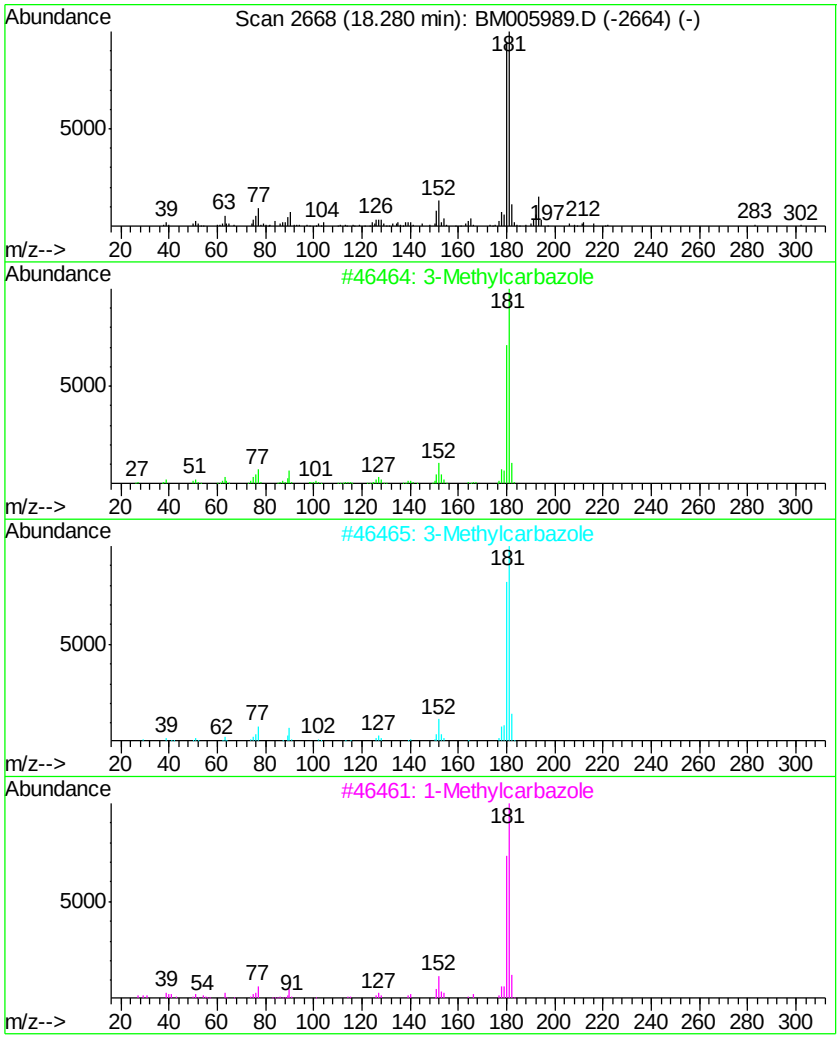
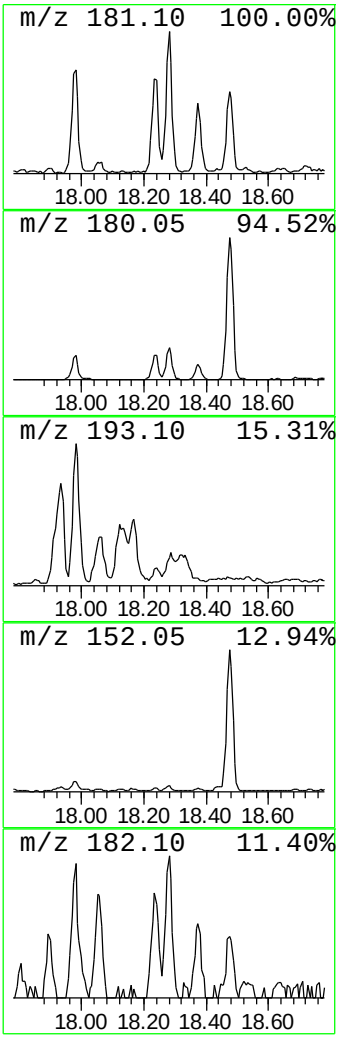
Peak Number 20 3-Methylcarbazole Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.28	2.38 ng/ul	193672	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylcarbazole	181	C13H11N	004630-20-0	93
2	3-Methylcarbazole	181	C13H11N	004630-20-0	91
3	1-Methylcarbazole	181	C13H11N	006510-65-2	91
4	3-Methylcarbazole	181	C13H11N	004630-20-0	87
5	4-Methylcarbazole	181	C13H11N	003770-48-7	83





Library Search Compound Report

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Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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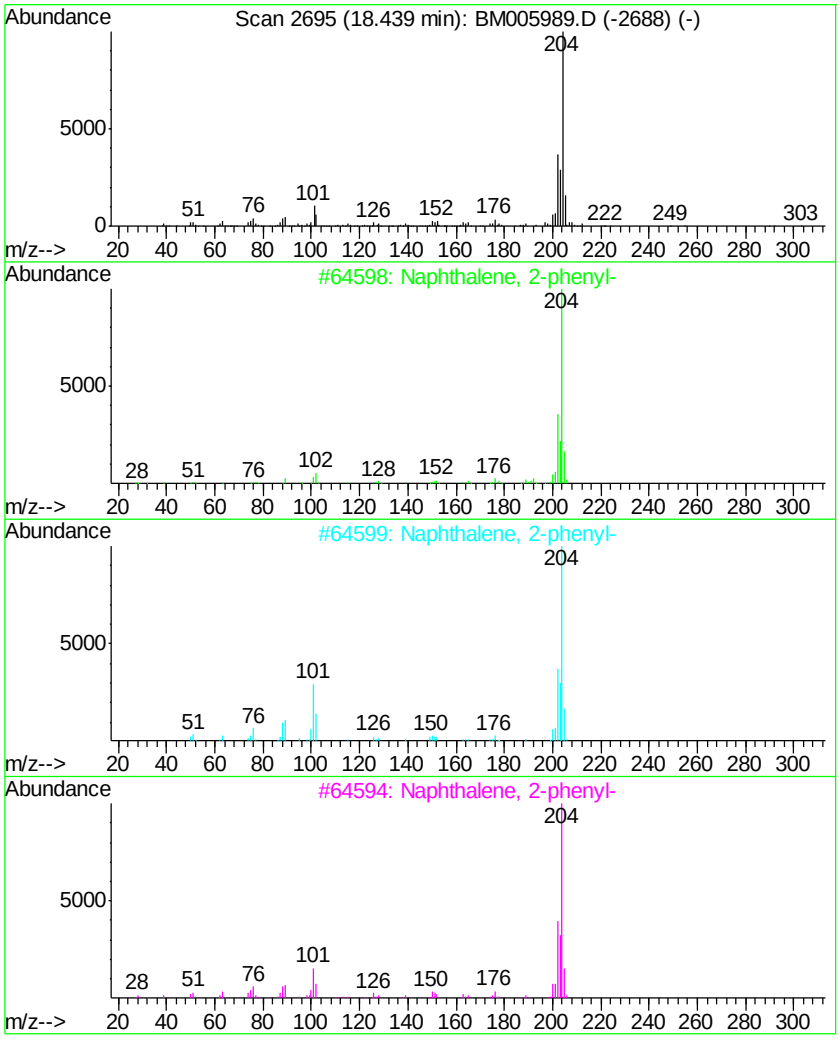
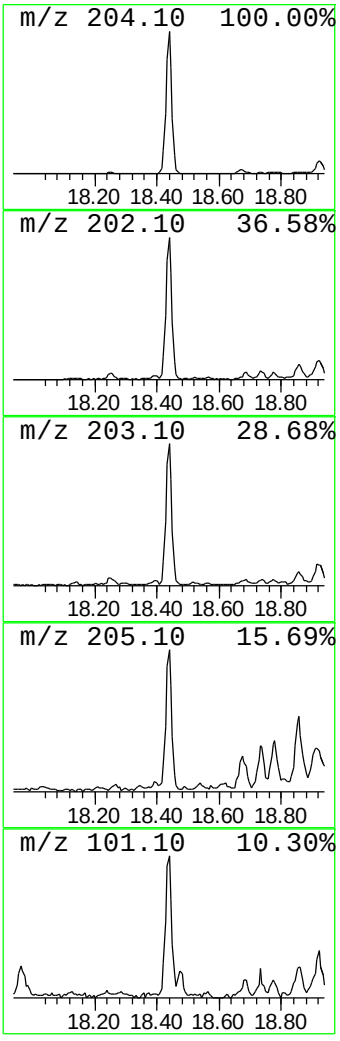
Peak Number 21 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.44	10.06 ng/ul	819455	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81





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Acq On : 25 Jun 2016 05:13
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Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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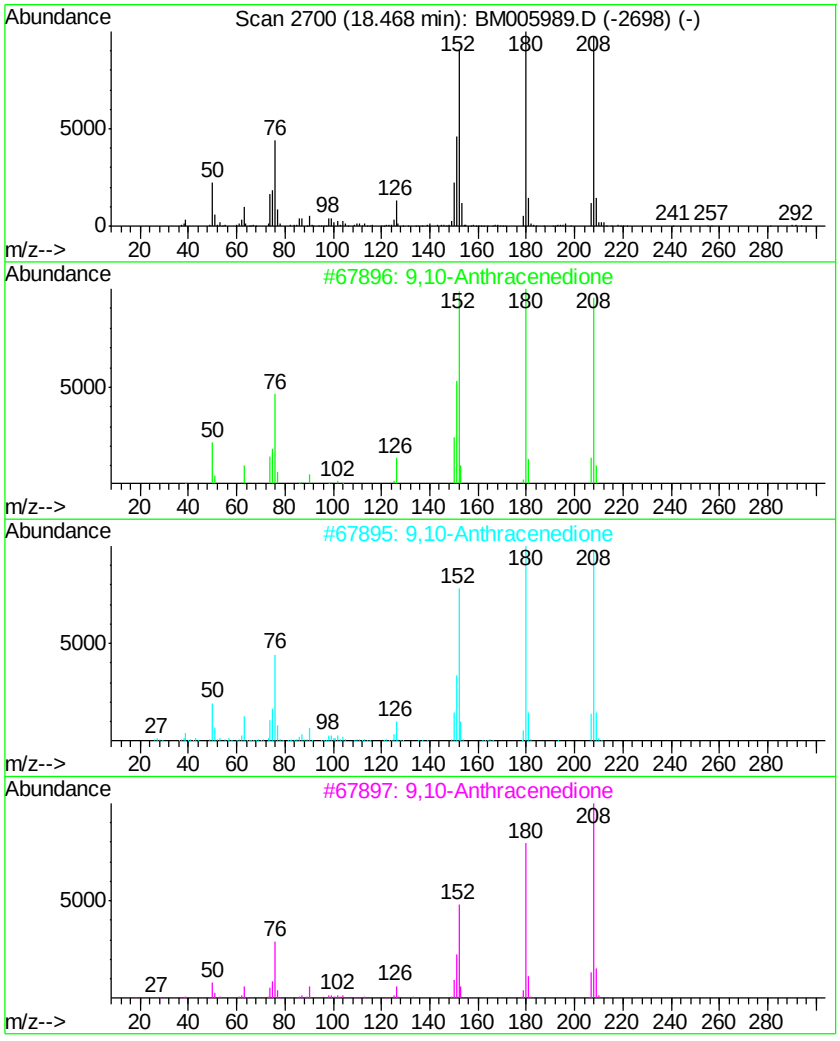
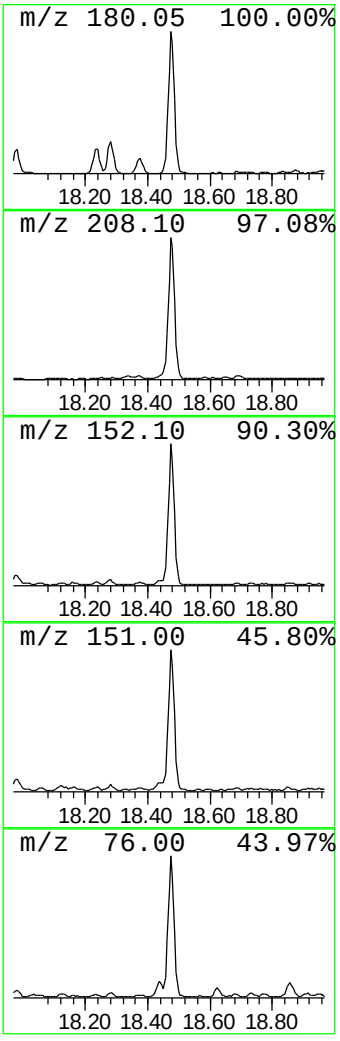
Peak Number 22 9,10-Anthracenedione Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.47	16.95 ng/ul	1380890	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64





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Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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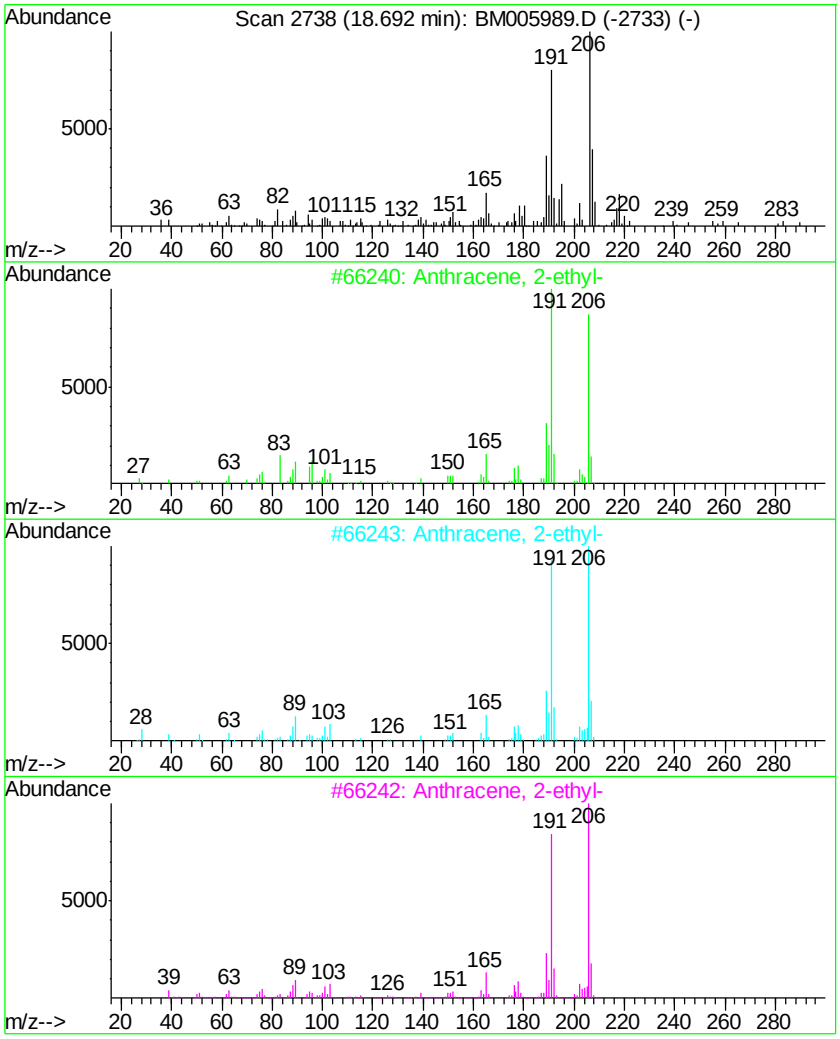
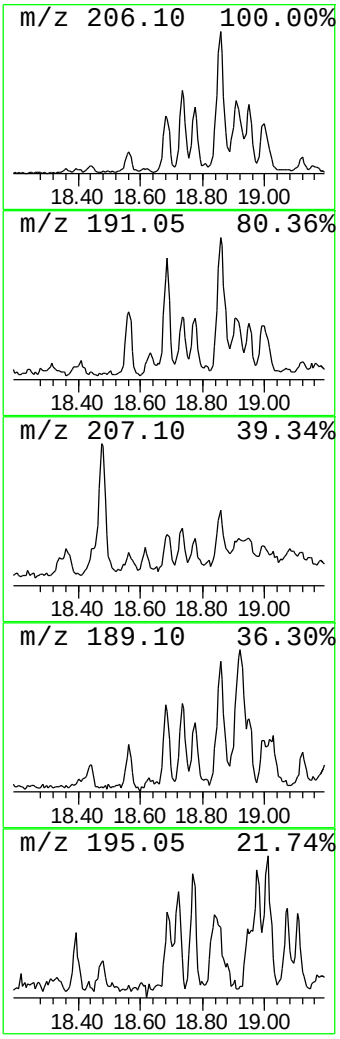
Peak Number 23 Anthracene, 2-ethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.69	2.36 ng/ul	192353	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	92
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	72
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	72





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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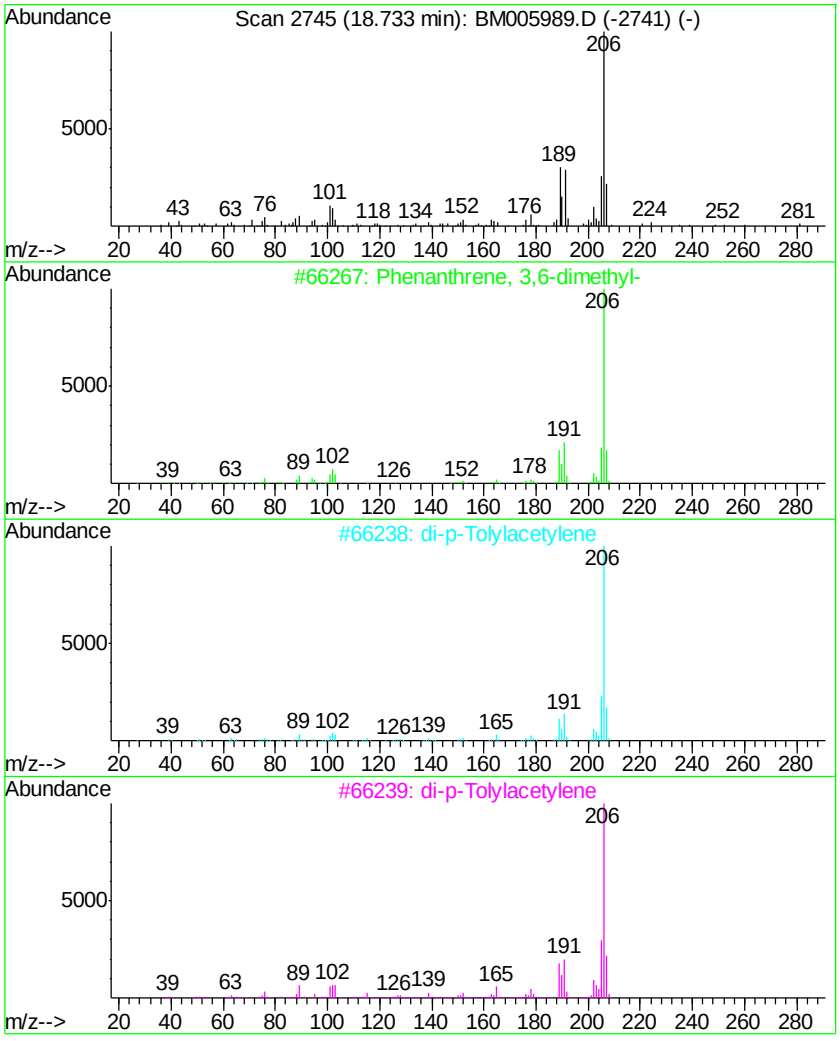
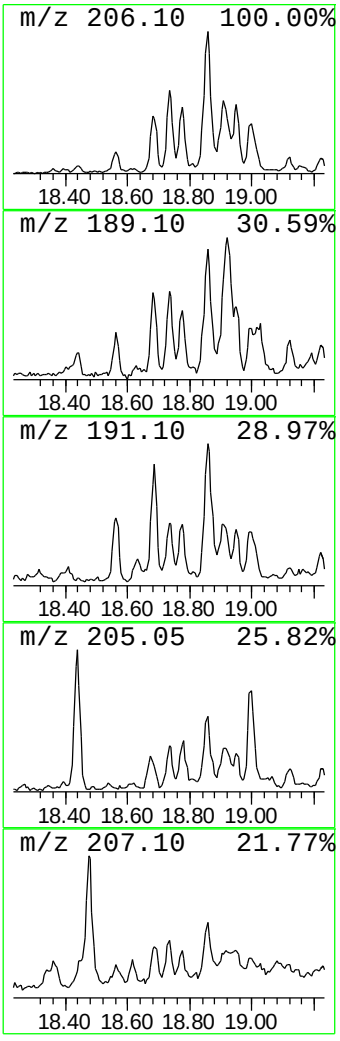
Peak Number 24 Phenanthrene, 3,6-dimethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.73	2.05 ng/ul	167370	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





Library Search Compound Report

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Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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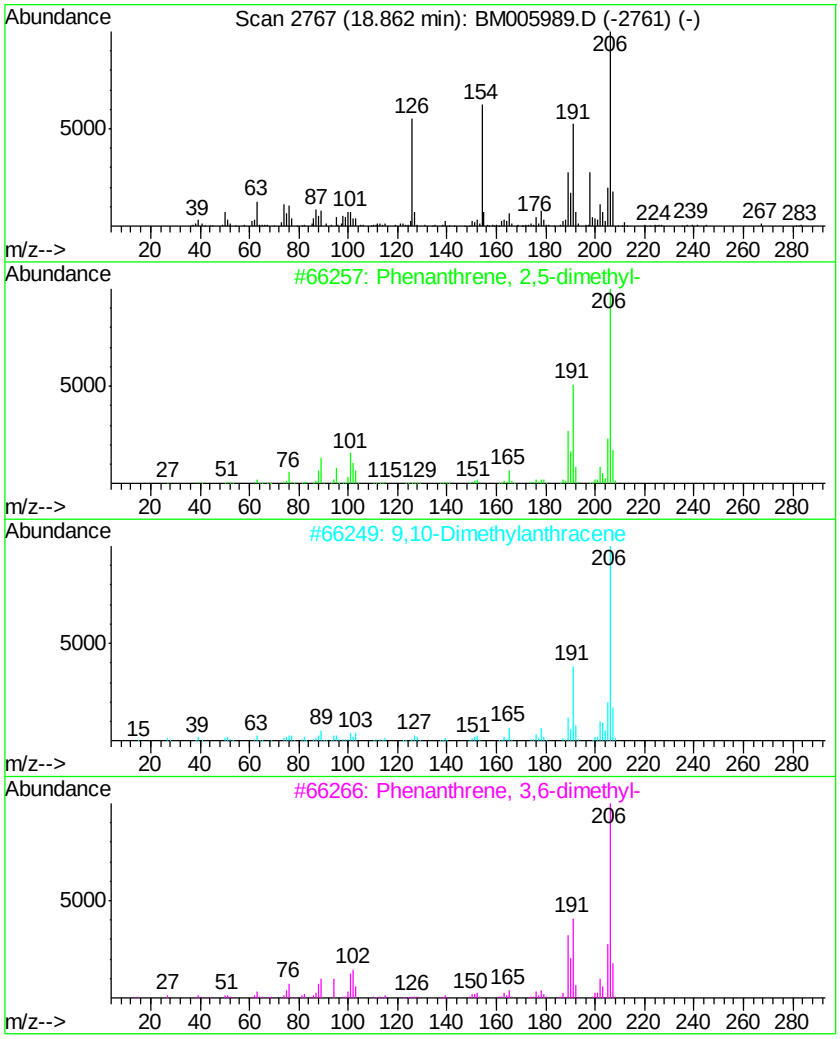
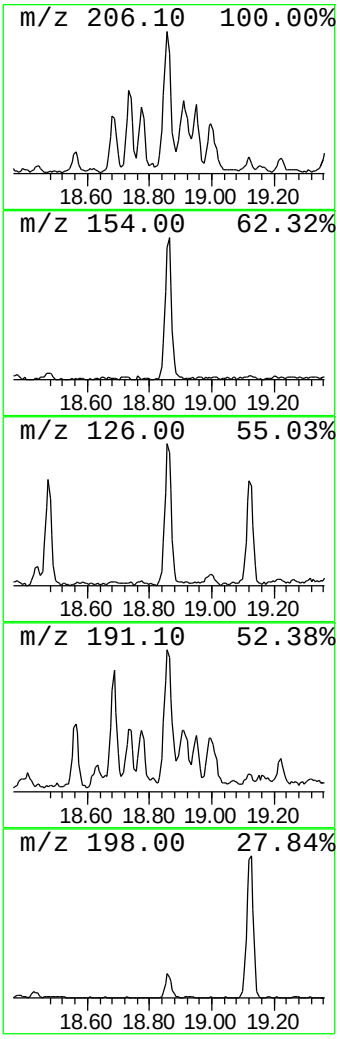
Peak Number 25 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	7.06 ng/ul	575378	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	78
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	78
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	78
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	70
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	60





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Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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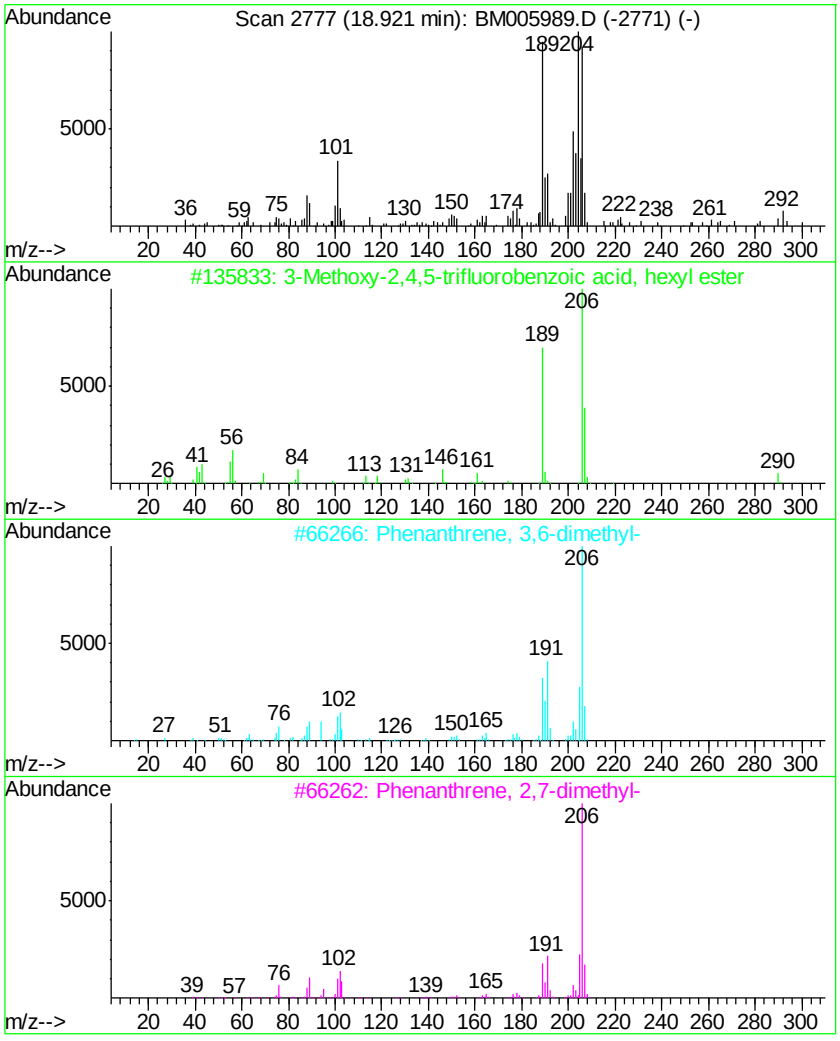
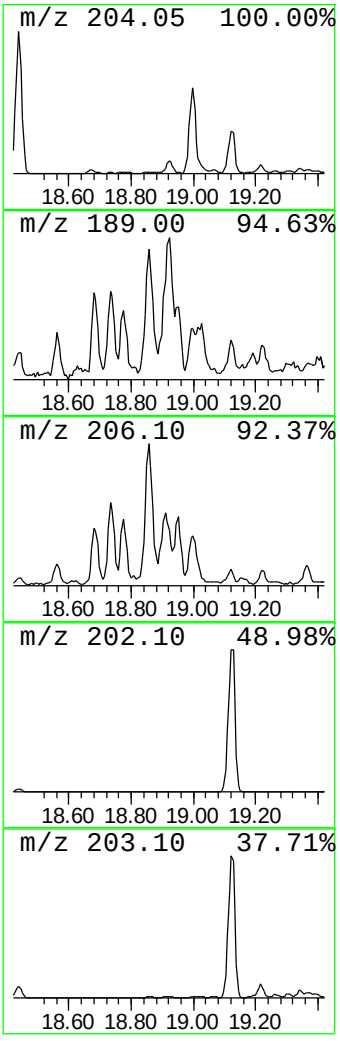
Peak Number 26 unknown-01 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.92	3.54 ng/ul	288249	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methoxy-2,4,5-trifluorobenzoic...	290	C14H17F3O3	1000338-76-3	43
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	38
5	5-Methyl-2-(p-tolylimino)-1,3-th...	206	C11H14N2S	070446-87-6	35





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Misc :
ALS Vial : 24 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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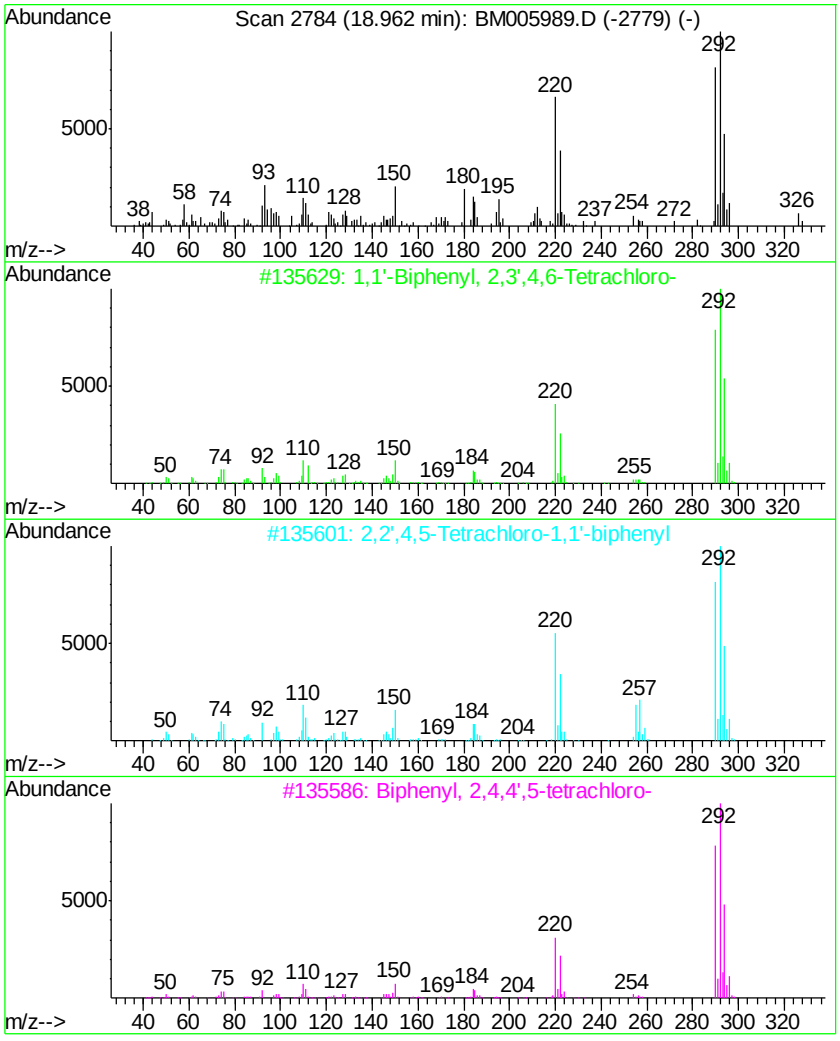
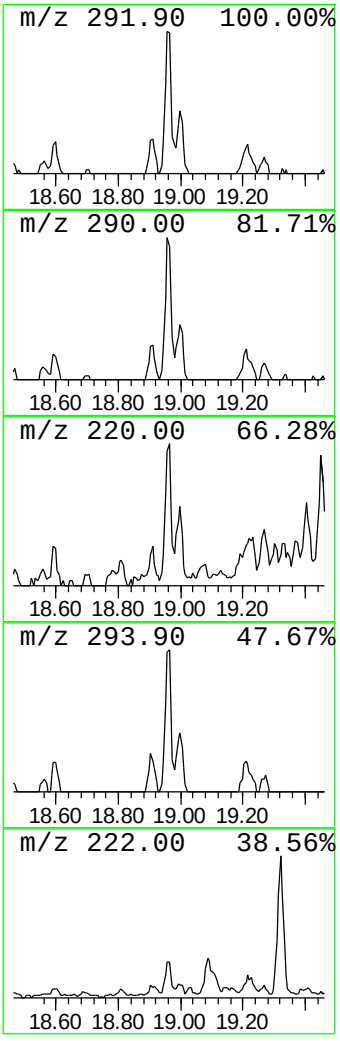
Peak Number 27 1,1'-Biphenyl, 2,3',4,6-Tet... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.96	3.48 ng/ul	283626	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,3',4,6-Tetrachl...	290	C12H6Cl4	060233-24-1	99
2	2,2',4,5-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	070362-47-9	99
3	Biphenyl, 2,4,4',5-tetrachloro-	290	C12H6Cl4	032690-93-0	99
4	1,1'-Biphenyl, 2,2',6,6'-tetrach...	290	C12H6Cl4	015968-05-5	99
5	2,3',4,5'-Tetrachloro-1,1'-biphenyl	290	C12H6Cl4	073575-52-7	98





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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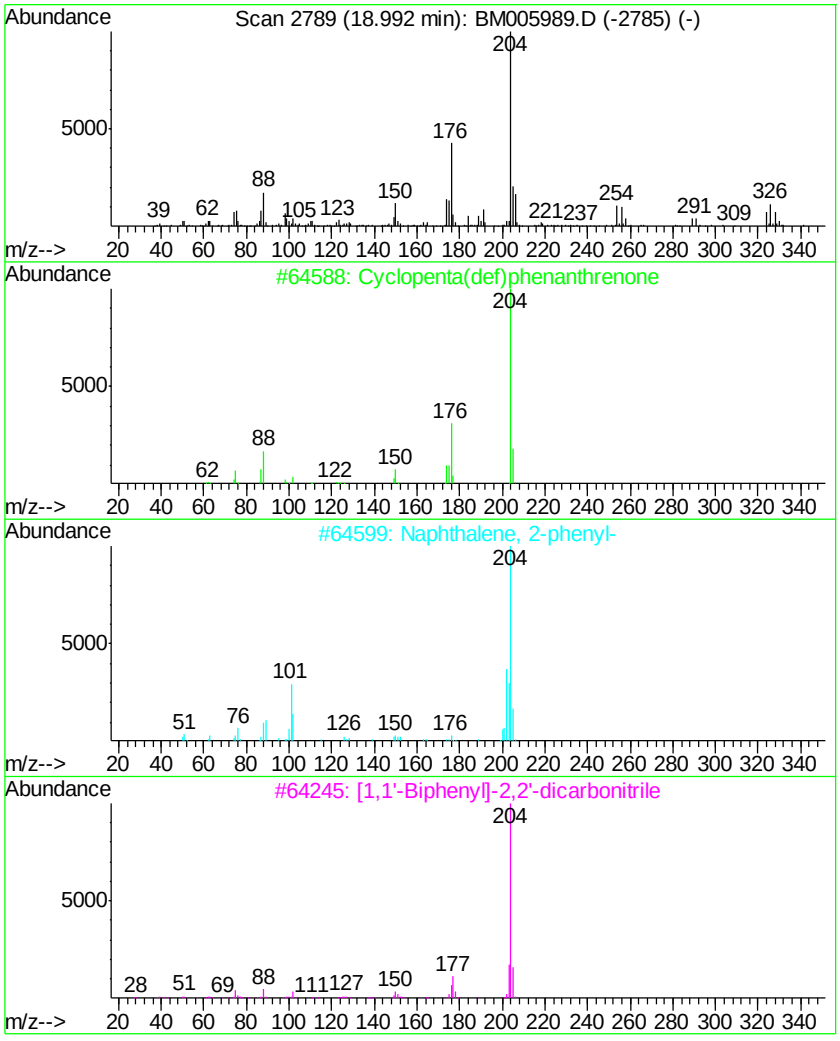
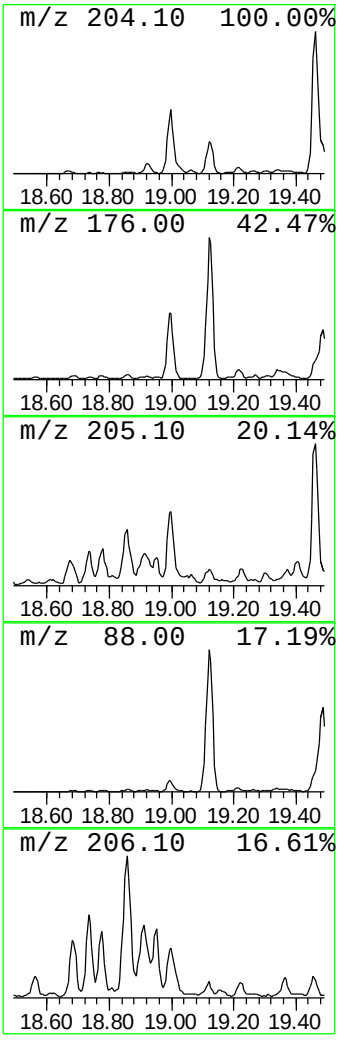
Peak Number 28 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	11.50 ng/ul	937280	Phenanthrene-d10	17.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	43
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43





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Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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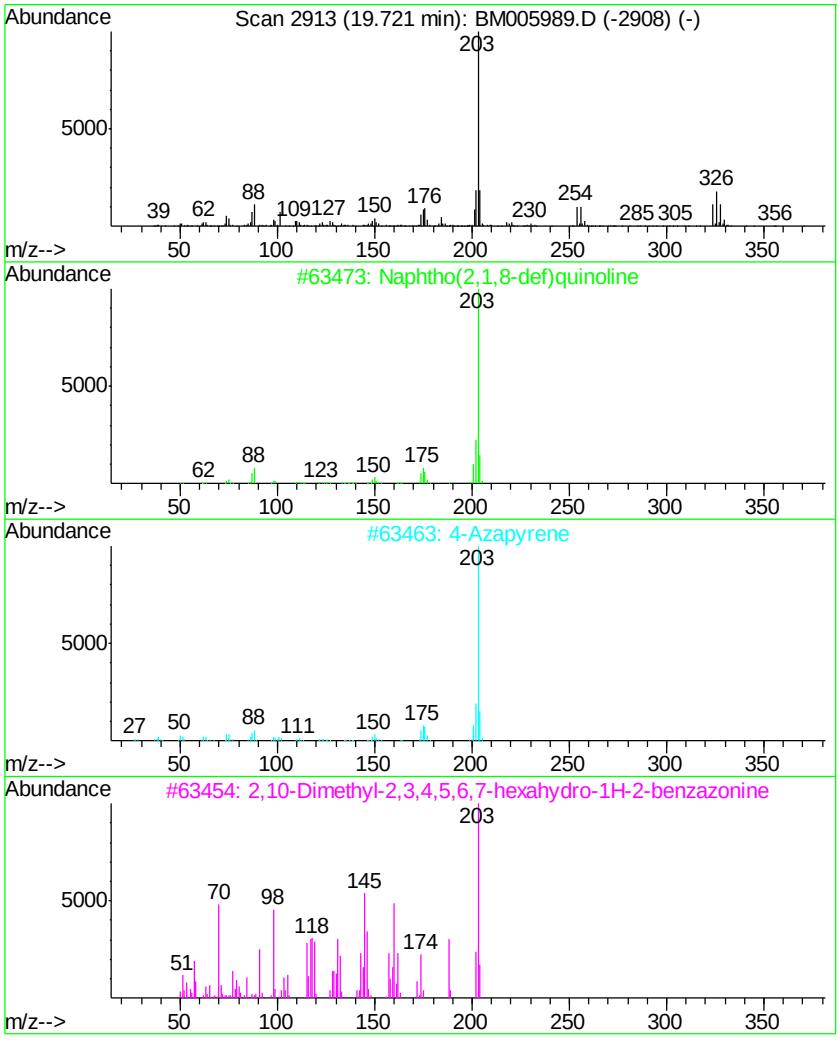
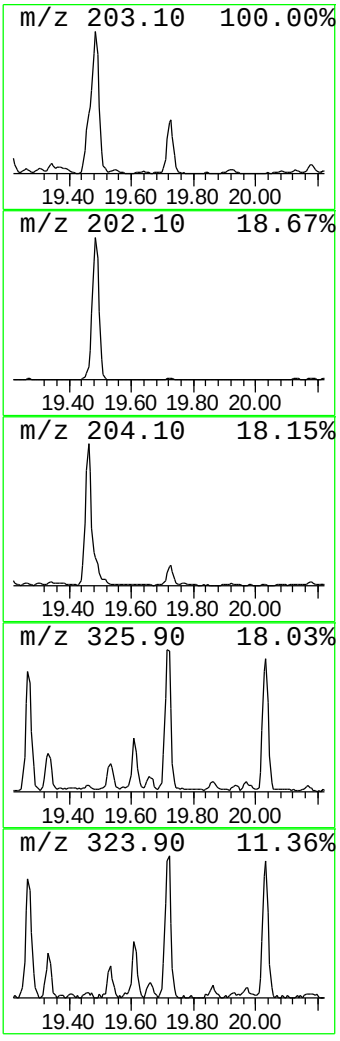
Peak Number 29 Naphtho(2,1,8-def)quinoline Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.72	2.60 ng/ul	1101190	Chrysene-d12	21.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho(2,1,8-def)quinoline	203	C15H9N	000313-80-4	95
2	4-Azapyrene	203	C15H9N	000194-03-6	95
3	2,10-Dimethyl-2,3,4,5,6,7-hexahy...	203	C14H21N	077581-13-6	91
4	9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	90
5	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062416\
Data File : BM005989.D
Acq On : 25 Jun 2016 05:13
Operator : UM/SJ
Sample : H3612-14 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : D9Z32

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062216.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1-me...	12.33	3.7	ng/ul	247653	2	10.45	1349460	20.0
Naphthalene, 1,6-...	13.48	2.0	ng/ul	169433	3	14.31	1693110	20.0
Naphthalene, 2,3-...	13.63	2.2	ng/ul	189756	3	14.31	1693110	20.0
[1,1'-Biphenyl]-4...	15.66	4.8	ng/ul	409620	3	14.31	1693110	20.0
Dibenzofuran, 4-m...	15.80	5.3	ng/ul	430324	4	17.06	1629400	20.0
Benzenesulfonamid...	15.90	2.5	ng/ul	205393	4	17.06	1629400	20.0
Naphthalene, 1,2,...	16.03	4.0	ng/ul	328855	4	17.06	1629400	20.0
9H-Fluorene, 1-me...	16.37	2.3	ng/ul	185916	4	17.06	1629400	20.0
9H-Fluoren-9-one	16.71	11.6	ng/ul	946963	4	17.06	1629400	20.0
1-Naphthalenol, 2...	16.82	3.8	ng/ul	313117	4	17.06	1629400	20.0
Naphtho[2,1-b]thi...	16.87	9.7	ng/ul	791687	4	17.06	1629400	20.0
Acridine	17.24	3.0	ng/ul	245332	4	17.06	1629400	20.0
Naphthalene, 1-ph...	17.58	2.1	ng/ul	169854	4	17.06	1629400	20.0
2-Fluorenecarboxa...	17.64	3.5	ng/ul	286181	4	17.06	1629400	20.0
Phenanthrene, 2-m...	17.93	13.4	ng/ul	1087350	4	17.06	1629400	20.0
4H-Cyclopenta[def...	18.13	23.3	ng/ul	1898210	4	17.06	1629400	20.0
Anthracene, 9-met...	18.16	5.7	ng/ul	466881	4	17.06	1629400	20.0
3-Methylcarbazole	18.28	2.4	ng/ul	193672	4	17.06	1629400	20.0
Naphthalene, 2-ph...	18.44	10.1	ng/ul	819455	4	17.06	1629400	20.0
9,10-Anthracenedione	18.47	16.9	ng/ul	1380890	4	17.06	1629400	20.0
Anthracene, 2-ethyl-	18.69	2.4	ng/ul	192353	4	17.06	1629400	20.0
Phenanthrene, 3,6...	18.73	2.0	ng/ul	167370	4	17.06	1629400	20.0
Phenanthrene, 2,5...	18.86	7.1	ng/ul	575378	4	17.06	1629400	20.0
unknown-01	18.92	3.5	ng/ul	288249	4	17.06	1629400	20.0
1,1'-Biphenyl, 2,...	18.96	3.5	ng/ul	283626	4	17.06	1629400	20.0
Cyclopenta(def)ph...	18.99	11.5	ng/ul	937280	4	17.06	1629400	20.0
Naphtho(2,1,8-def...	19.72	2.6	ng/ul	1101190	5	21.25	8464900	20.0