LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

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-BM010116.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	3.652	91	96	103	rBV	103013	131496	4.45%	0.291%
2	6.845	633	639	648	rBV	130241	209400	7.08%	0.464%
3	6.998	660	665	677	rBV	109160	167743	5.67%	0.371%
4	7.198	693	699	706	rBV	145829	219883	7.43%	0.487%
5	7.663	772	778	785	rVB	140230	214985	7.27%	0.476%
6	8.375	894	899	909	rBV	120637	191653	6.48%	0.424%
7	8.822	969	975	984	rBB	136635	213591	7.22%	0.473%
8	9.539	1092	1097	1104	rBV	112017	178422	6.03%	0.395%
9	10.081	1183	1189	1203	rBB	178069	291251	9.85%	0.645%
10	10.451	1245	1252	1257	rBV	224019	367695	12.43%	0.814%
11	10.598	1271	1277	1295	rBV	62622	116781	3.95%	0.259%
12	13.733	1805	1810	1814	rVV	343088	481541	16.28%	1.066%
13	13.774	1814	1817	1826	rVB	128308	178071	6.02%	0.394%
14	14.010	1851	1857	1870	rBV	399562	671618	22.71%	1.487%
15	14.321	1901	1910	1916	rBV2	341586	528188	17.86%	1.169%
16	14.386	1916	1921	1928	rVB	82349	119605	4.04%	0.265%
17	14.539	1941	1947	1955	rBV	111126	180822	6.11%	0.400%
18	15.316	2074	2079	2084	rVV	530091	764868	25.86%	1.693%
19	15.374	2084	2089	2097	rVV	101151	165416	5.59%	0.366%
20	15.451	2097	2102	2107	rVV	122879	177980	6.02%	0.394%
21	16.045	2198	2203	2216	rVB4	72610	156647	5.30%	0.347%
22	16.886	2342	2346	2356	rVB	89440	149201	5.04%	0.330%
23	17.074	2372	2378	2381	rBV	416106	639669	21.63%	1.416%
24	17.115	2381	2385	2390	rVV	1251244	1681932	56.86%	3.724%
25	17.168	2390	2394	2398	rVV2	558054	815776	27.58%	1.806%
26	17.204	2398	2400	2405	rVB	311828	358033	12.10%	0.793%
27	17.262	2405	2410	2415	rBV3	57773	104986	3.55%	0.232%
28	17.480	2435	2447	2452	rBV2	152749	287926	9.73%	0.637%
29	17.651	2472	2476	2484	rVB	91853	144635	4.89%	0.320%
30	17.945	2518	2526	2530	rBV	323310	503294	17.02%	1.114%
31	17.998	2530	2535	2540	rVB	420795	632933	21.40%	1.401%
32	18.074	2542	2548	2553	rBV	108346	169503	5.73%	0.375%
33	18.139	2553	2559	2563	rBV2	419727	771955	26.10%	1.709%
34	18.180	2563	2566	2572	rVB	251606	342625	11.58%	0.759%

LSC Area Percent Report

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Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

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-BM010116.M
Title : SVOA CALIBRATION

35	18.451	2607	2612	2616	rBV2	196166	282876	9.56%	0.626%
36	18.498	2616	2620	2630	rVB2	335362	494500	16.72%	1.095%
37	18.698	2651	2654	2658	rVV	118477	166355	5.62%	0.368%
38	18.751	2659	2663	2666	rVV	158758	204970	6.93%	0.454%
39	18.792	2666	2670	2674	rVB2	125220	168579	5.70%	0.373%
40	18.874	2674	2684	2689	rBV	350241	633694	21.42%	1.403%
41	18.933	2689	2694	2698	rVV2	147037	309284	10.46%	0.685%
42	18.968	2698	2700	2703	rVB	112933	110950	3.75%	0.246%
43	19.015	2703	2708	2715	rBV3	173405	363265	12.28%	0.804%
44	19.145	2722	2730	2736	rVB	2114932	2957894	100.00%	6.549%
45	19.203	2736	2740	2743	rBV	97737	139502	4.72%	0.309%
46	19.239	2743	2746	2751	rVV2	96605	136171	4.60%	0.301%
47	19.345	2758	2764	2767	rBV3	92733	146609	4.96%	0.325%
48	19.386	2767	2771	2774	rVV	120920	172172	5.82%	0.381%
49	19.480	2781	2787	2789	rBV2	945885	1463887	49.49%	3.241%
50	19.509	2789	2792	2800	rVB	1948566	2799423	94.64%	6.198%
51	19.580	2800	2804	2809	rBV2	194349	307682	10.40%	0.681%
52	19.686	2815	2822	2829	rBV2	106151	227132	7.68%	0.503%
53	19.745	2829	2832	2838	rVB2	138530	219105	7.41%	0.485%
54	19.839	2841	2848	2854	rBV2	226807	606395	20.50%	1.343%
55	19.974	2865	2871	2872	rBV4	171844	270692	9.15%	0.599%
56	20.003	2872	2876	2882	rVB	456702	705834	23.86%	1.563%
57	20.109	2889	2894	2897	rBV	300150	399905	13.52%	0.885%
58	20.162	2898	2903	2908	rVV2	313365	496958	16.80%	1.100%
59	20.203	2908	2910	2914	rVB3	90302	102533	3.47%	0.227%
60	20.303	2924	2927	2931	rBV	214170	259304	8.77%	0.574%
61	20.350	2931	2935	2939	rVB2	206557	268986	9.09%	0.596%
62	20.568	2967	2972	2975	rBV2	122553	193427	6.54%	0.428%
63	20.721	2994	2998	3001	rVV2	75946	135806	4.59%	0.301%
64	20.762	3001	3005	3011	rVB	220813	346856	11.73%	0.768%
65	20.927	3025	3033	3036	rBV3	254739	489137	16.54%	1.083%
66	20.962	3036	3039	3042	rVV	222883	291869	9.87%	0.646%
67	21.003	3042	3046	3050	rVV2	179842	357844	12.10%	0.792%
68	21.056	3051	3055	3061	rVB2	188862	308728	10.44%	0.684%
69	21.162	3066	3073	3082	rBV	87487	256937	8.69%	0.569%
70	21.268	3082	3091	3096	rBV3	1254601	2405282	81.32%	5.325%
71	21.321	3096	3100	3109	rVB	1063267	1550103	52.41%	3.432%

LSC Area Percent Report

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Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

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-BM010116.M
Title : SVOA CALIBRATION

72	21.397	3109	3113	3116	rBV2	84083	111462	3.77%	0.247%
73	21.433	3116	3119	3125	rBV	176649	265393	8.97%	0.588%
74	21.492	3126	3129	3136	rBV7	61643	125877	4.26%	0.279%
75	21.597	3142	3147	3151	rBV3	126136	230423	7.79%	0.510%
76	21.774	3174	3177	3180	rVV	78908	109195	3.69%	0.242%
77	21.827	3180	3186	3190	rVV	315812	606264	20.50%	1.342%
78	21.880	3192	3195	3201	rVV	222207	381271	12.89%	0.844%
79	21.944	3203	3206	3209	rVV2	108291	185471	6.27%	0.411%
80	21.986	3210	3213	3216	rVV3	128839	199570	6.75%	0.442%
81	22.027	3216	3220	3223	rVV2	206802	351670	11.89%	0.779%
82	22.062	3223	3226	3232	rVV3	164661	258959	8.75%	0.573%
83	22.121	3232	3236	3247	rVB4	126578	239309	8.09%	0.530%
84	22.315	3261	3269	3275	rBV5	103640	318037	10.75%	0.704%
85	22.597	3312	3317	3328	rVB4	78660	185242	6.26%	0.410%
86	22.850	3350	3360	3365	rBV	675052	1812938	61.29%	4.014%
87	23.015	3384	3388	3400	rVB	141780	254147	8.59%	0.563%
88	23.150	3406	3411	3419	rBV3	63882	166577	5.63%	0.369%
89	23.327	3435	3441	3445	rBV	435029	794811	26.87%	1.760%
90	23.380	3445	3450	3453	rVV	352729	664715	22.47%	1.472%
91	23.427	3453	3458	3464	rVB	674695	1193671	40.36%	2.643%
92	23.521	3467	3474	3478	rVV	247783	504236	17.05%	1.116%
93	23.568	3478	3482	3490	rVB2	189659	396803	13.42%	0.879%
94	24.015	3552	3558	3563	rBV3	80960	188137	6.36%	0.417%
95	24.386	3615	3621	3633	rVB3	82795	253065	8.56%	0.560%
96	25.768	3847	3856	3867	rVB	331917	963450	32.57%	2.133%
97	26.021	3893	3899	3907	rVB	62421	155935	5.27%	0.345%
98	26.115	3908	3915	3922	rBV	53838	165025	5.58%	0.365%
99	26.462	3964	3974	3993	rVB	236274	778236	26.31%	1.723%
100	26.821	4028	4035	4051	rVB3	62100	226424	7.65%	0.501%

Sum of corrected areas: 45167083

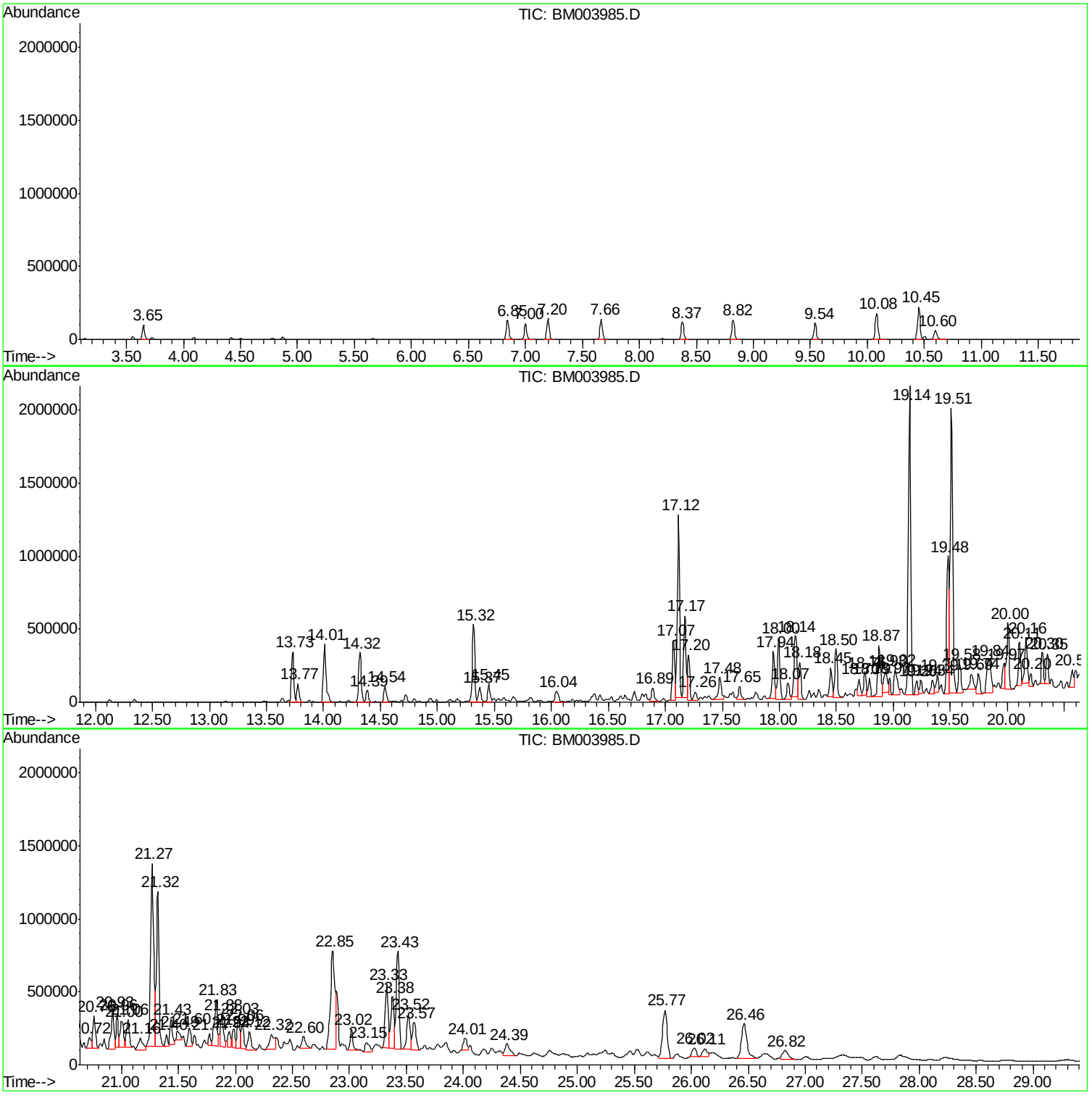
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.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\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
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Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

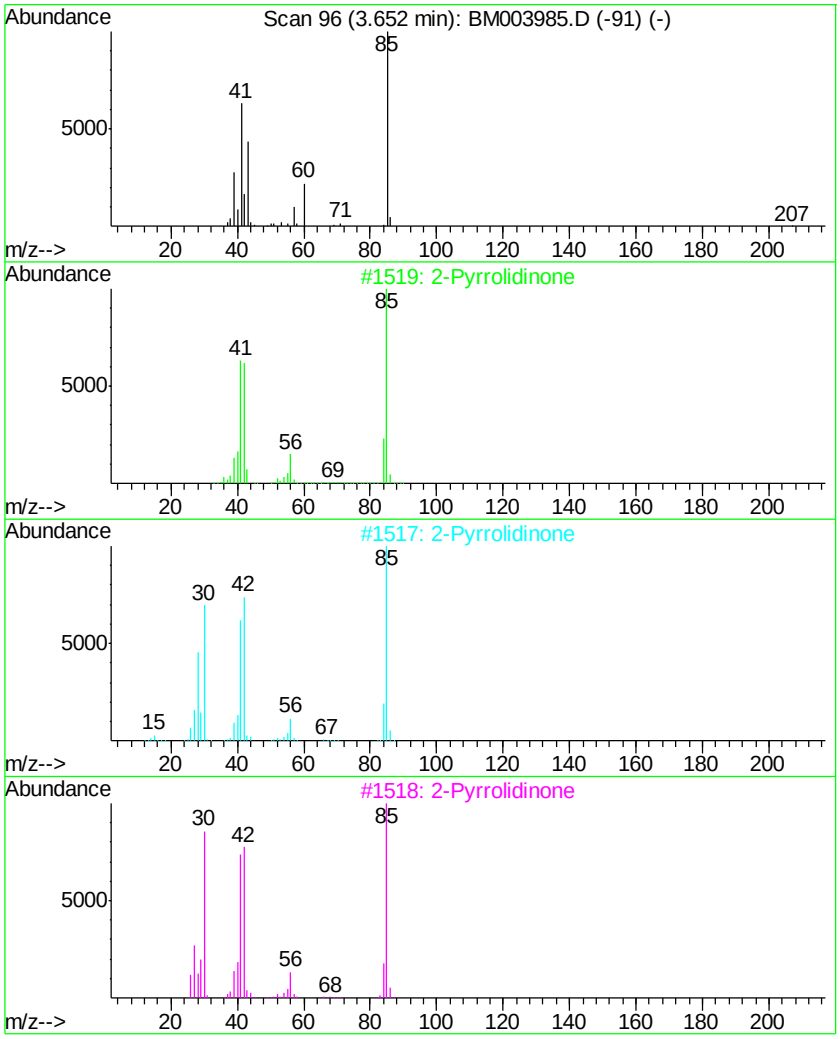
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

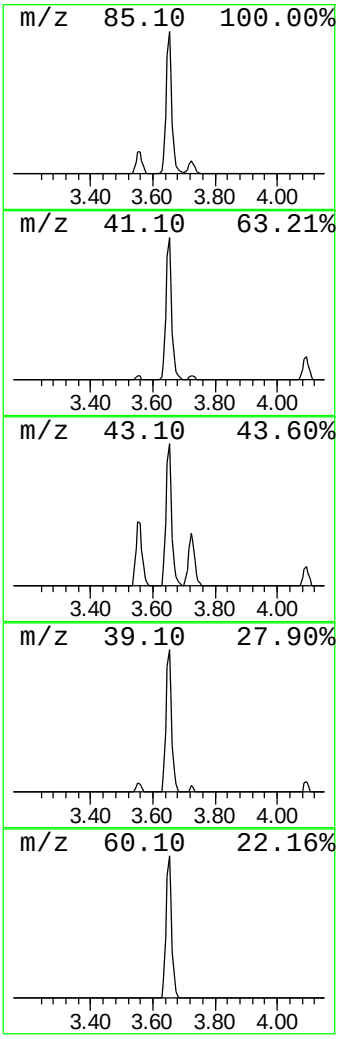
****

Peak Number 1 unknown-01 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.65	12.23 ng/ul	131496	1,4-Dichlorobenzene-d4	7.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pyrrolidinone	85	C4H7NO	000616-45-5	42
2	2-Pyrrolidinone	85	C4H7NO	000616-45-5	33
3	2-Pyrrolidinone	85	C4H7NO	000616-45-5	9
4	2-Furanmethanol, tetrahydro-5-me...	116	C6H12O2	054774-28-6	9
5	Butane, 1-isocyano-	83	C5H9N	002769-64-4	9





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

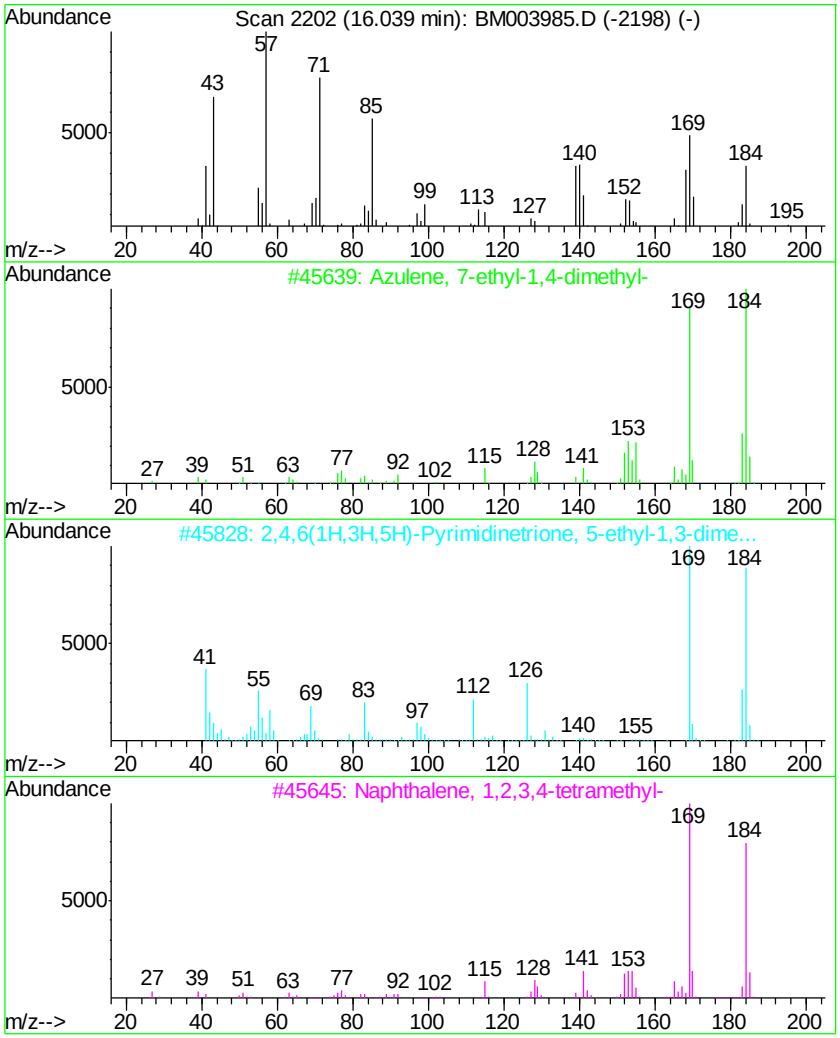
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

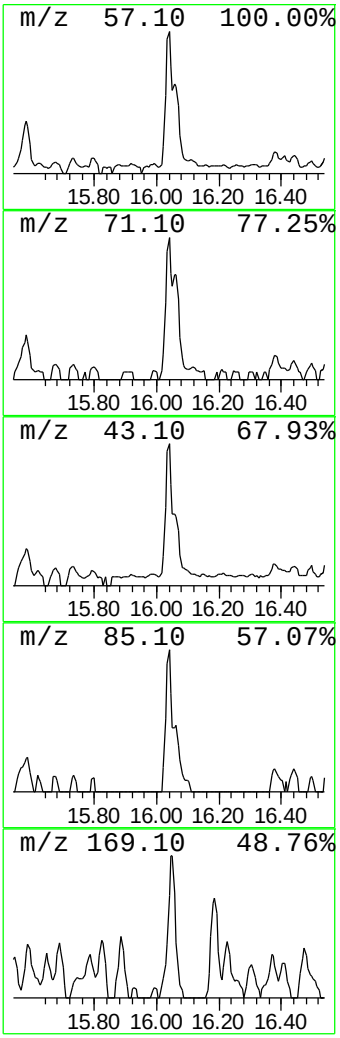
****

Peak Number 2 unknown-02 Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	4.90 ng/ul	156647	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Azulene, 7-ethyl-1,4-dimethyl-	184	C14H16	000529-05-5	30
2	2,4,6(1H,3H,5H)-Pyrimidinetrione...	184	C8H12N2O3	007391-61-9	30
3	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	30
4	2,3-Dihydro-1H-1-methylcyclopent...	184	C12H12N2	026629-21-0	25
5	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	25





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
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Acq On : 13 Jan 2016 10:49
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Sample : H1095-19
Misc :
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Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

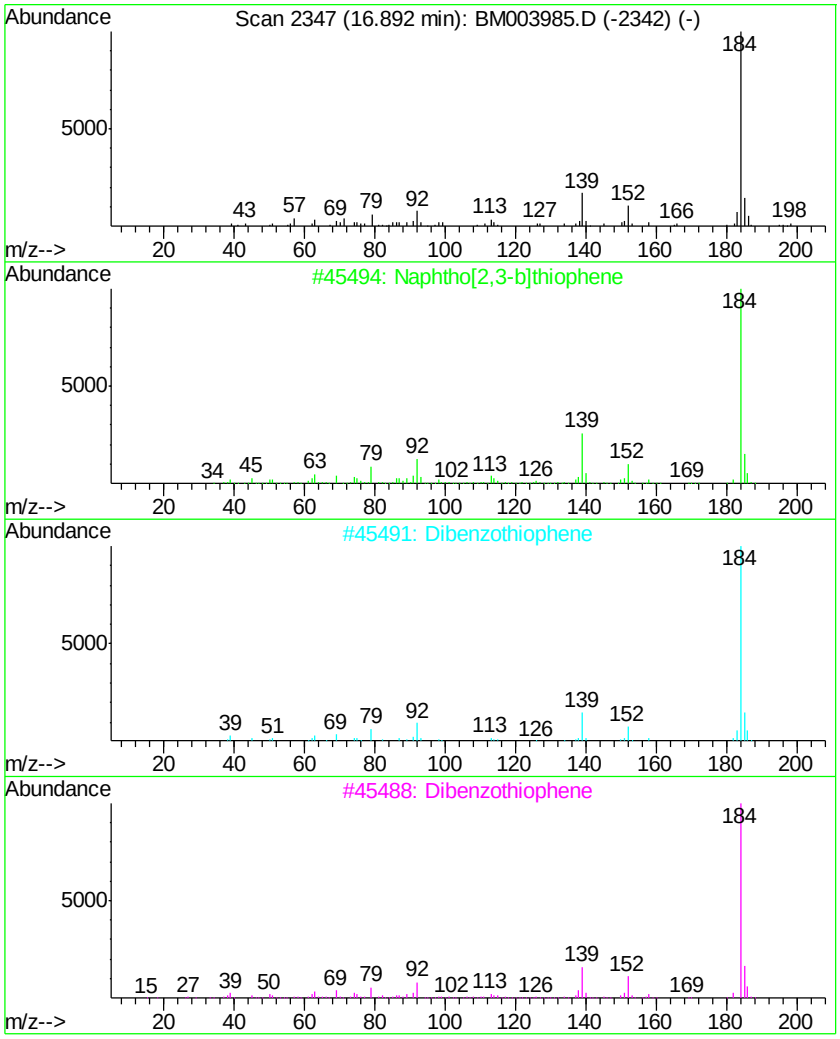
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

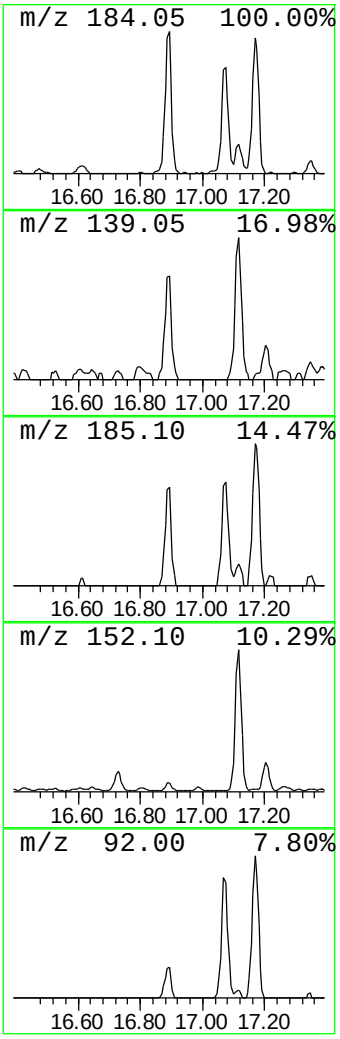
****

Peak Number 3 Naphtho[2,3-b]thiophene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	4.66 ng/ul	149201	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Dibenzothiophene	184	C12H8S	000132-65-0	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

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

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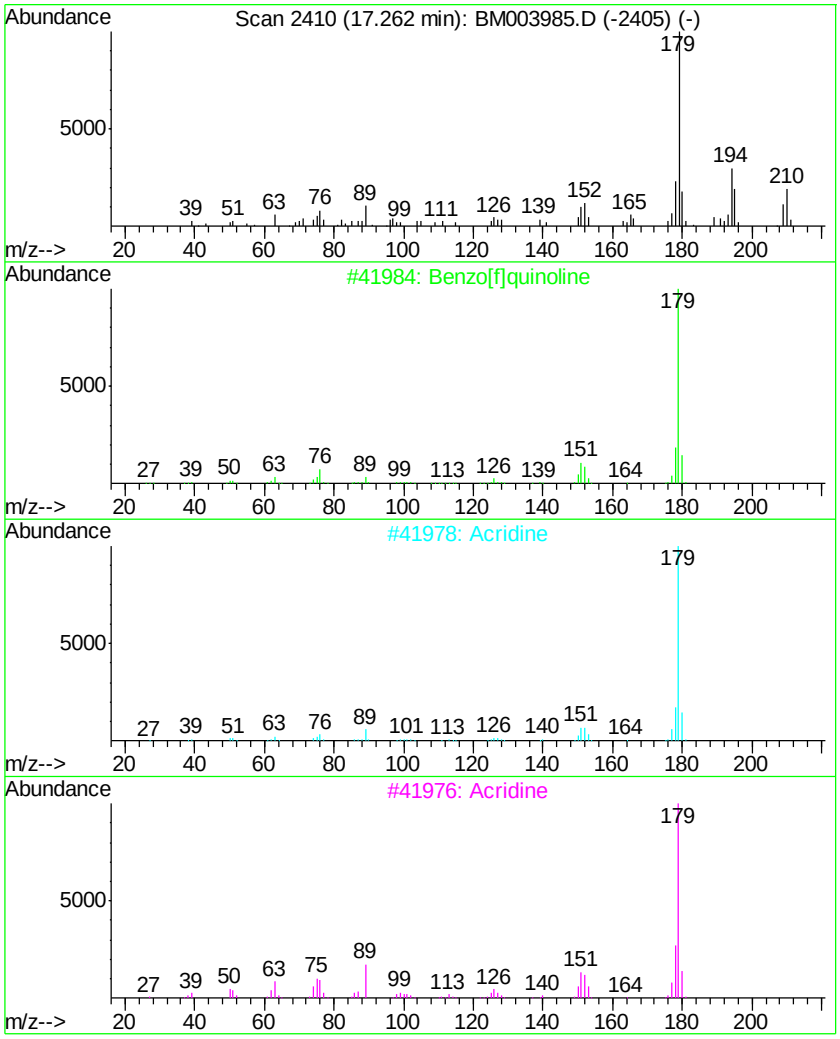
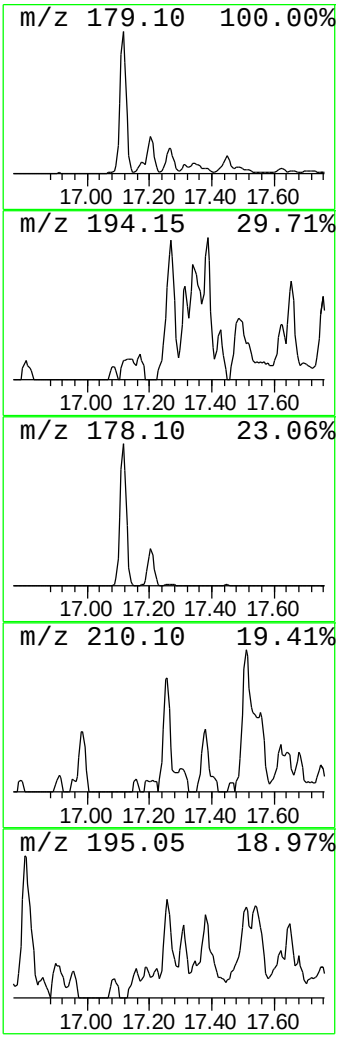
Peak Number 4 Benzo[f]quinoline Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	3.28 ng/ul	104986	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[f]quinoline	179	C13H9N	000085-02-9	91
2	Acridine	179	C13H9N	000260-94-6	86
3	Acridine	179	C13H9N	000260-94-6	86
4	Benzo[g]quinoline	179	C13H9N	000260-36-6	78
5	Benzo[h]quinoline	179	C13H9N	000230-27-3	70





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

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

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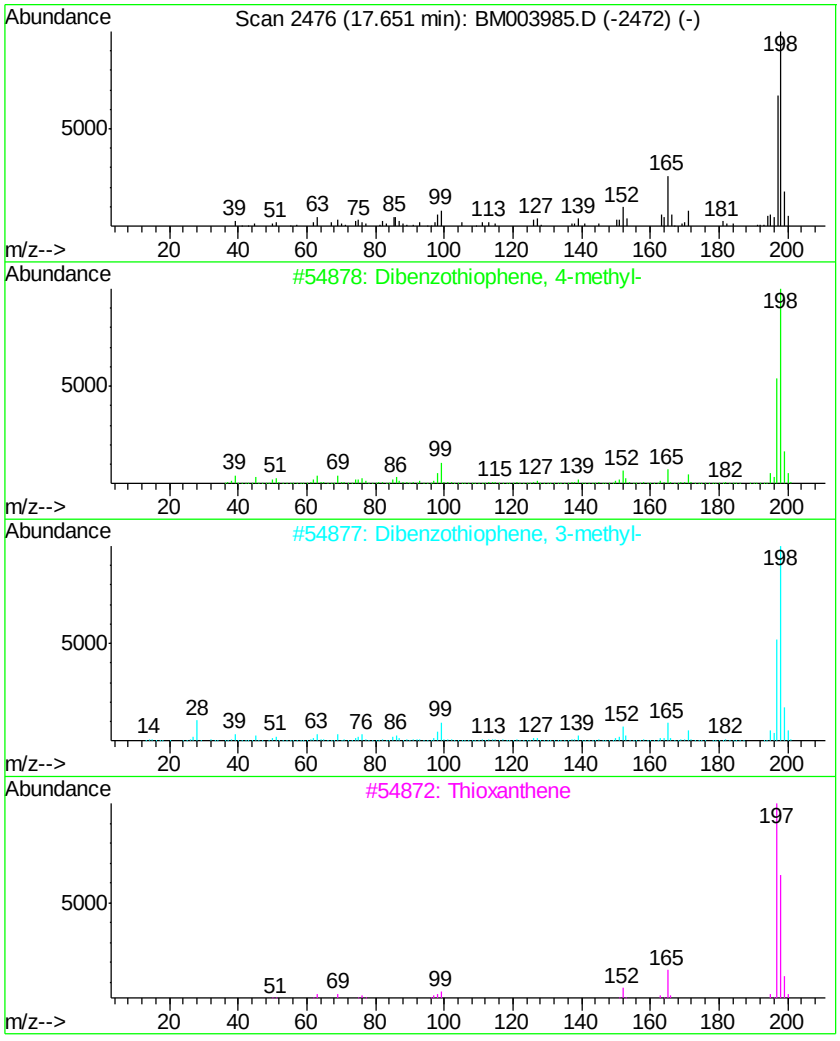
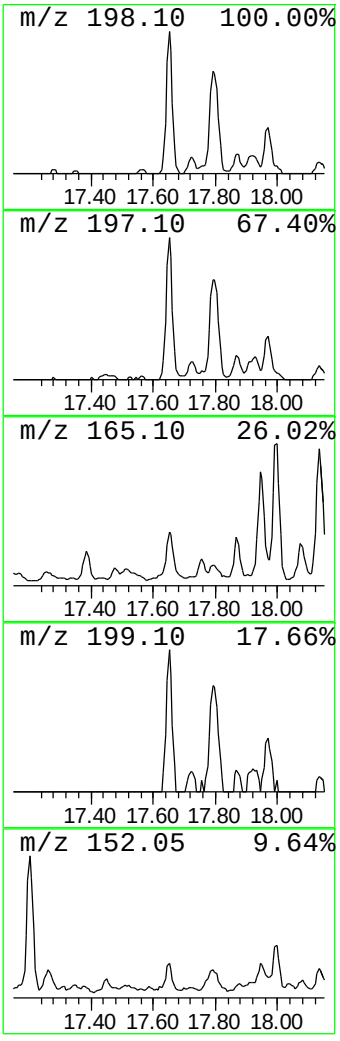
Peak Number 5 Dibenzothiophene, 4-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.65	4.52 ng/ul	144635	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	87
3	Thioxanthene	198	C13H10S	000261-31-4	86
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	81
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	68





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Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

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Quant Title : SVOA CALIBRATION

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

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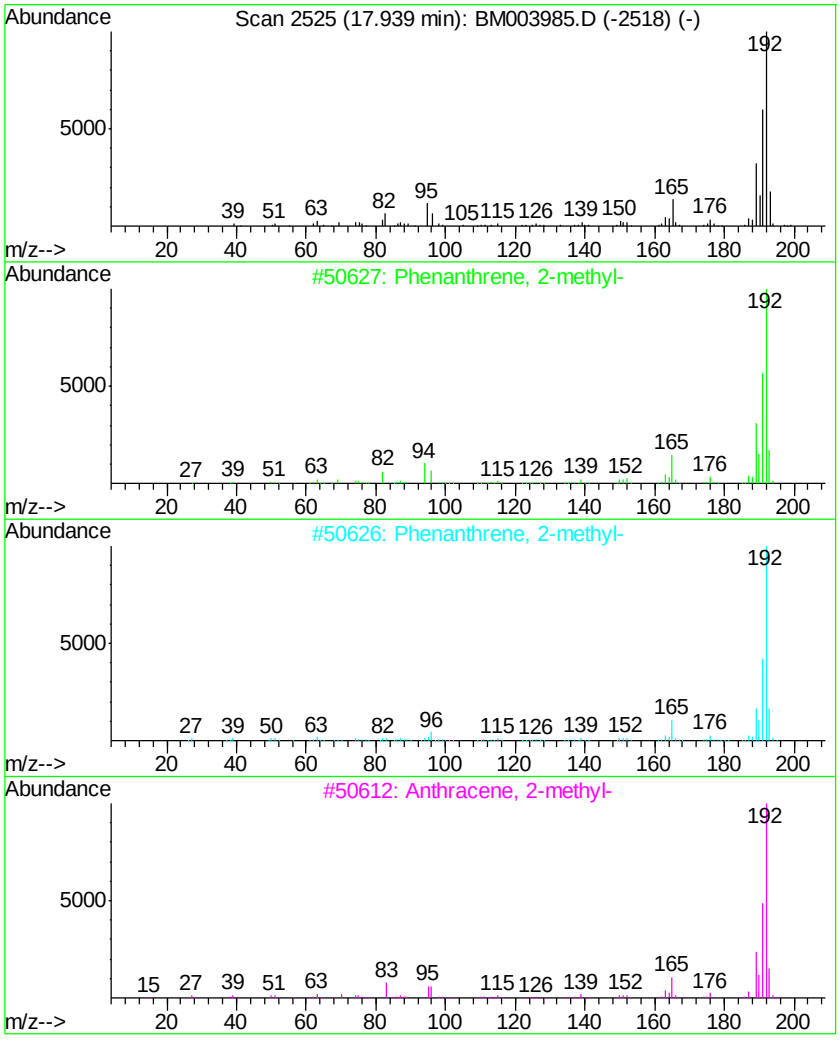
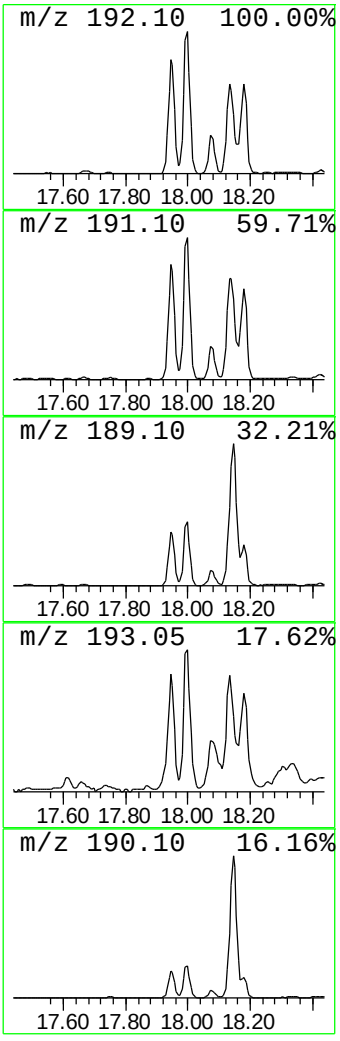
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.94	15.74 ng/ul	503294	Phenanthrene-d10	17.07

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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ClientSampleId : BC9A7

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Quant Title : SVOA CALIBRATION

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

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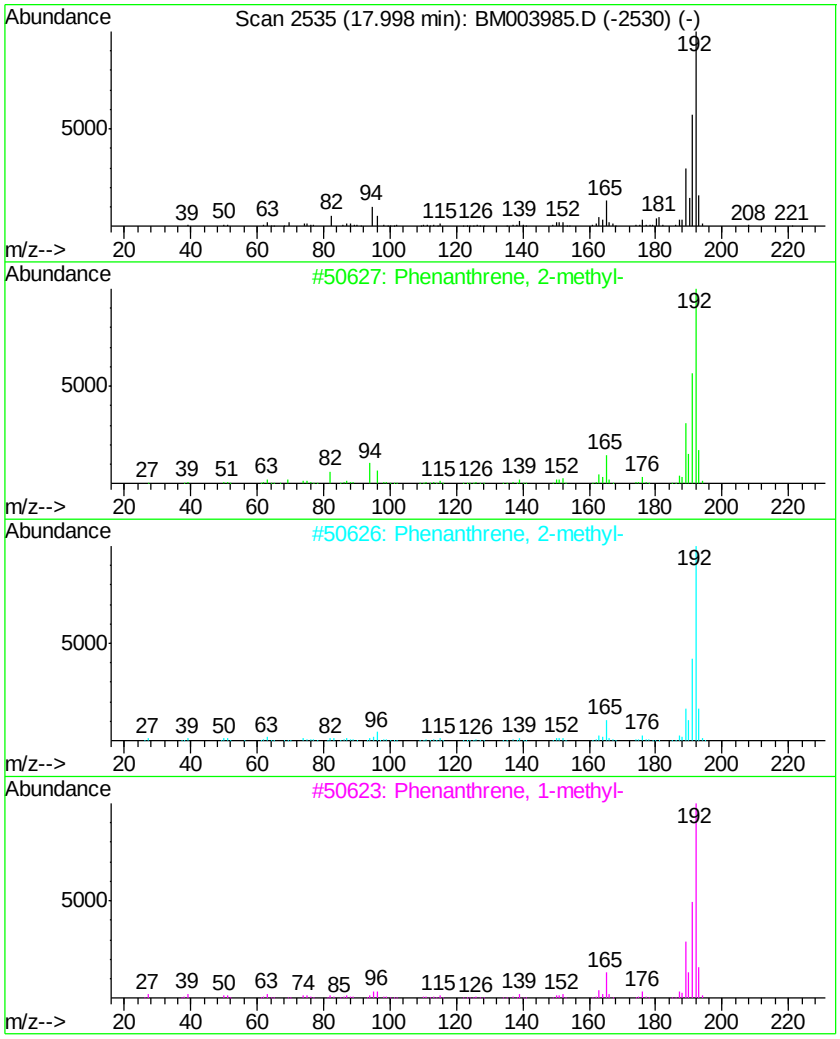
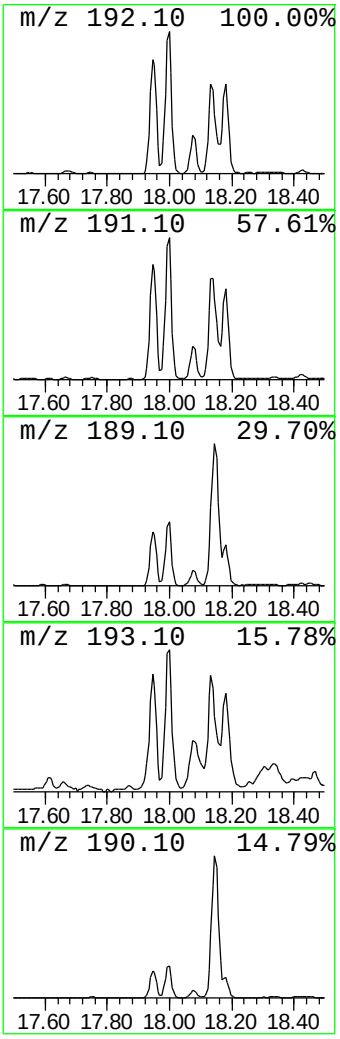
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	19.79 ng/ul	632933	Phenanthrene-d10	17.07

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	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Instrument : BNA_M
ClientSampleId : BC9A7

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Quant Title : SVOA CALIBRATION

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

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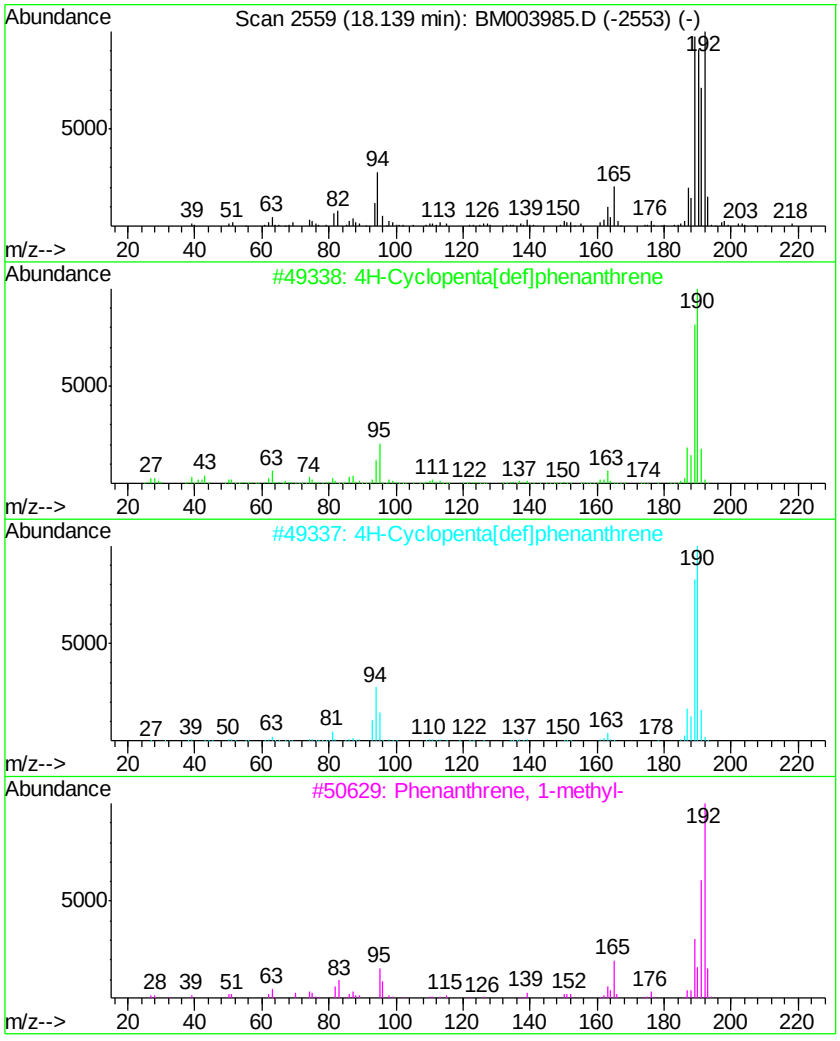
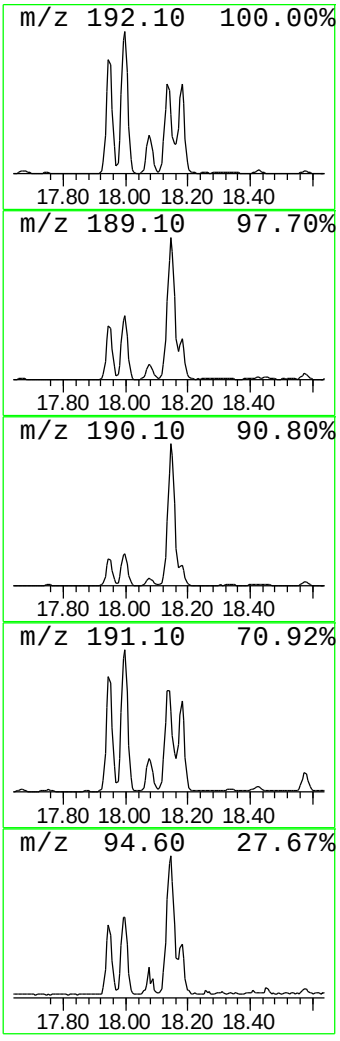
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	24.14 ng/ul	771955	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	46
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	42





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Instrument : BNA_M
ClientSampleId : BC9A7

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Quant Title : SVOA CALIBRATION

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

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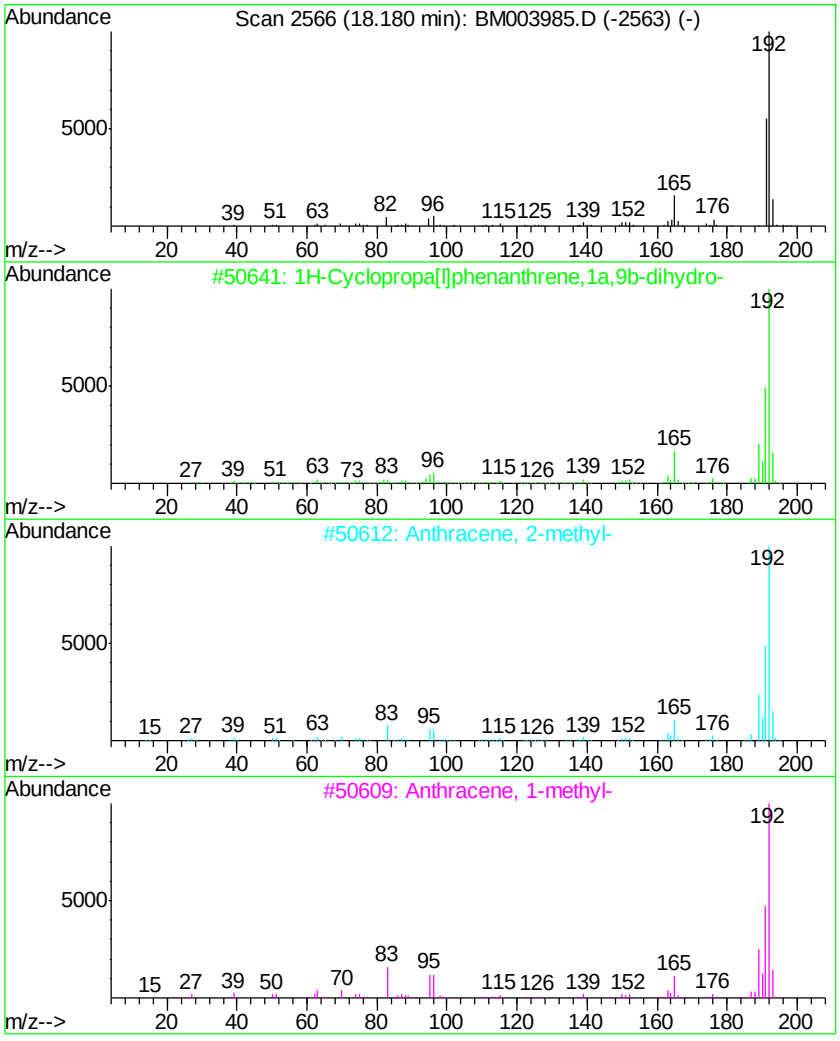
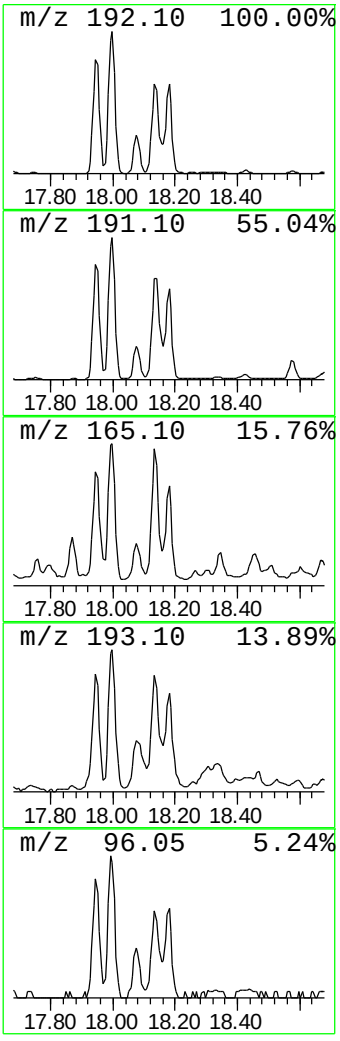
Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	10.71 ng/ul	342625	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	90
5	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	90





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Quant Title : SVOA CALIBRATION

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

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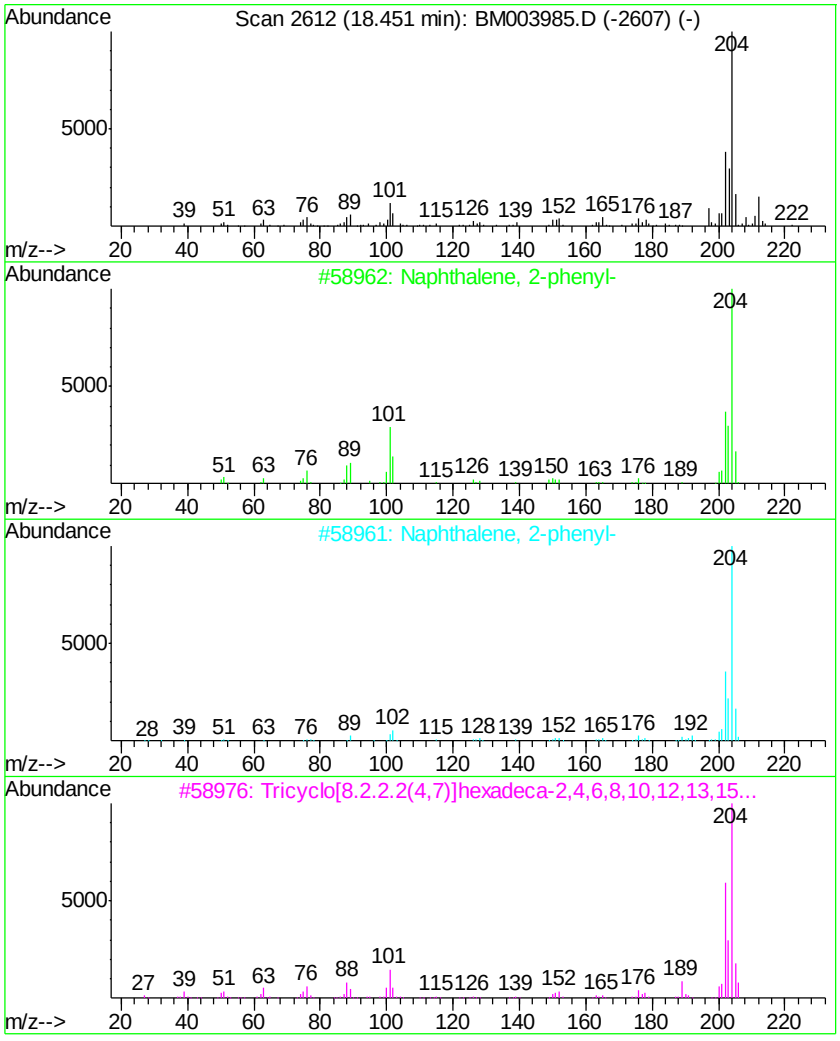
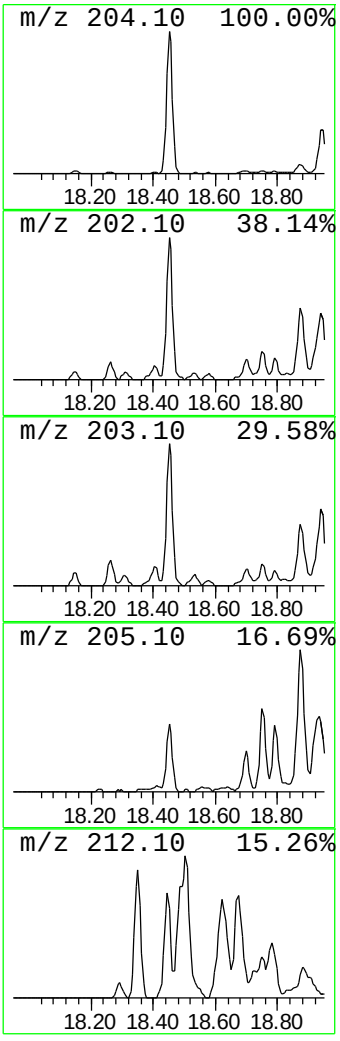
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	8.84 ng/ul	282876	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	60
4	2-Phenylnaphthalene	204	C16H12	035465-71-5	60
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55





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Instrument : BNA_M
ClientSampleId : BC9A7

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Quant Title : SVOA CALIBRATION

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

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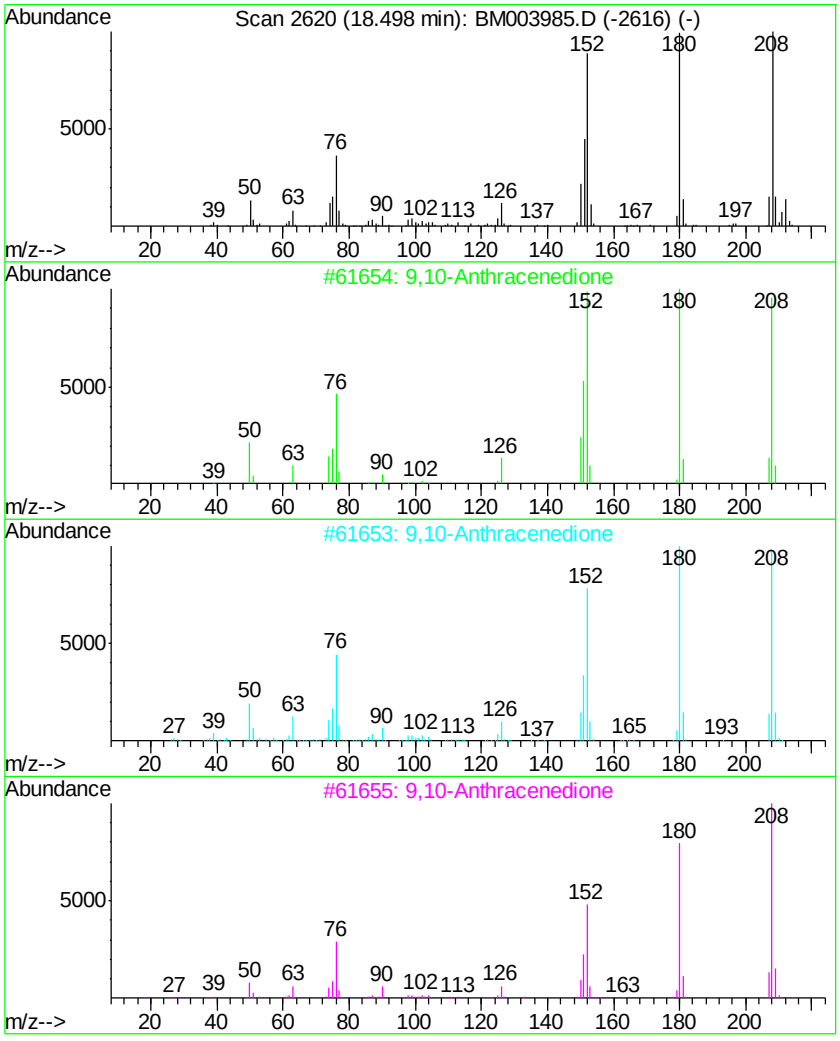
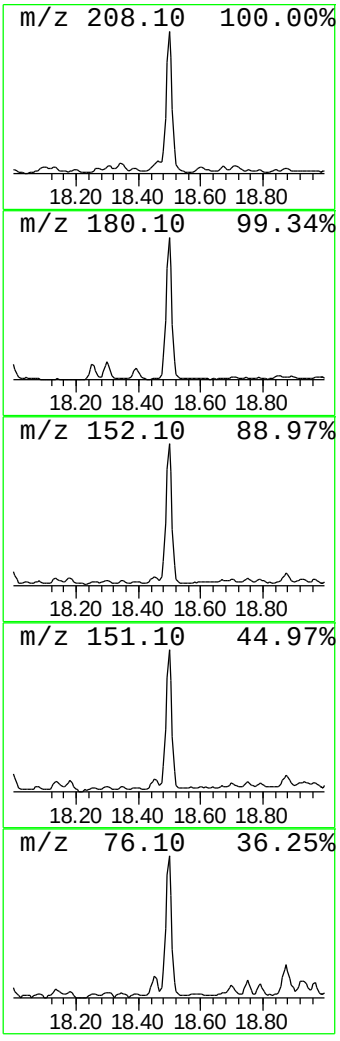
Peak Number 12 9,10-Anthracenedione Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	15.46 ng/ul	494500	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70





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ClientSampleId : BC9A7

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Quant Title : SVOA CALIBRATION

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

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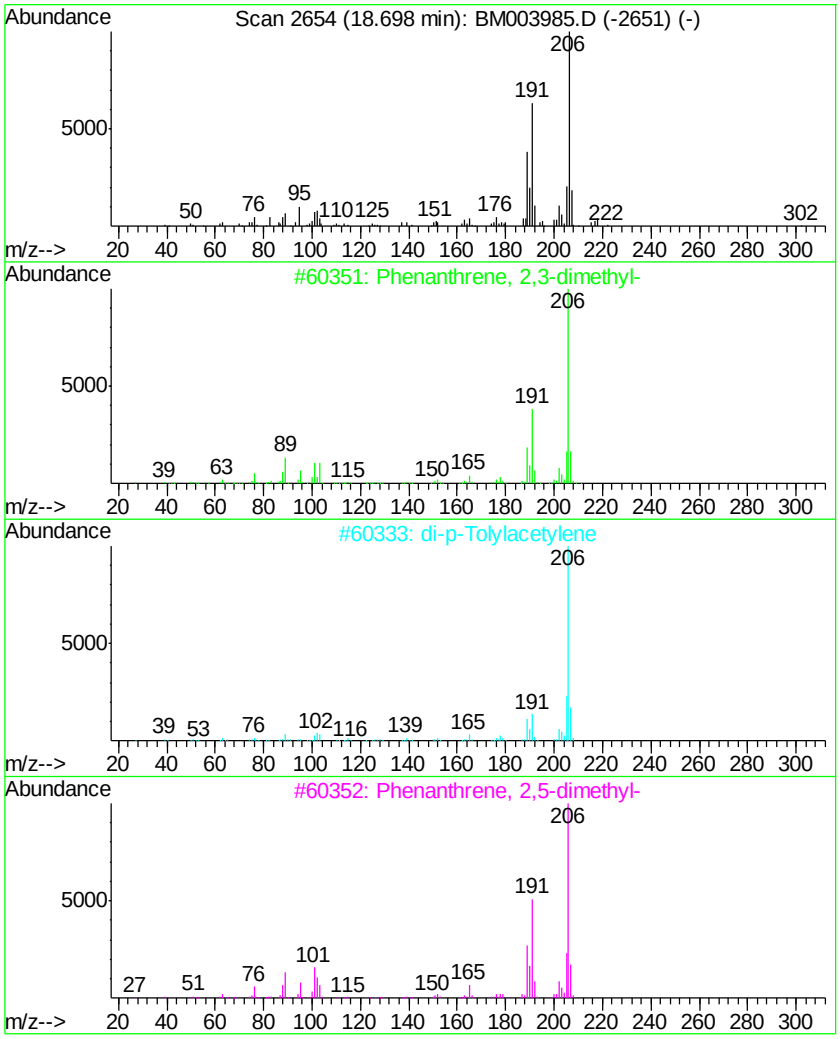
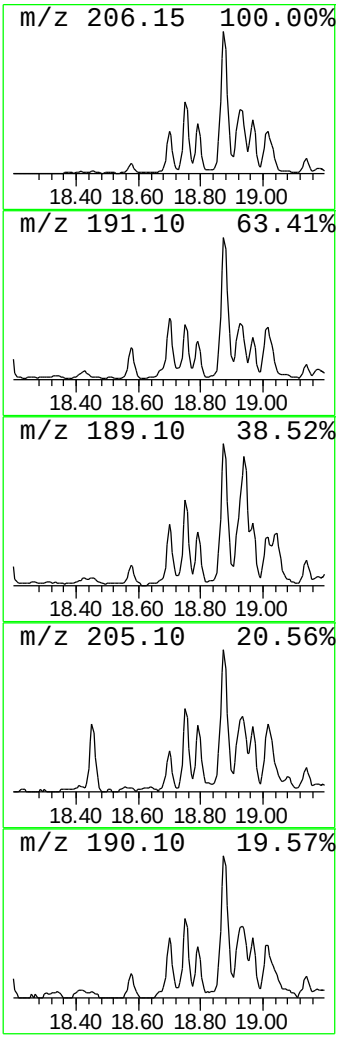
Peak Number 13 Phenanthrene, 2,3-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	5.20 ng/ul	166355	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	83
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	74
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64





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Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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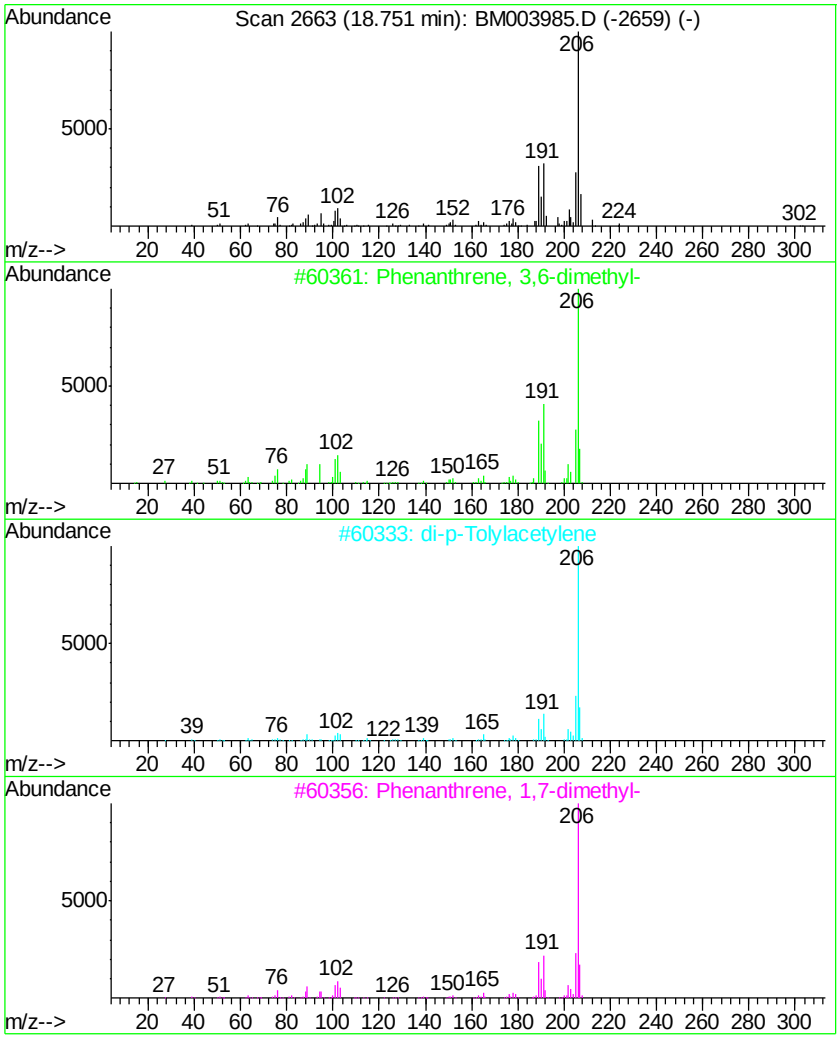
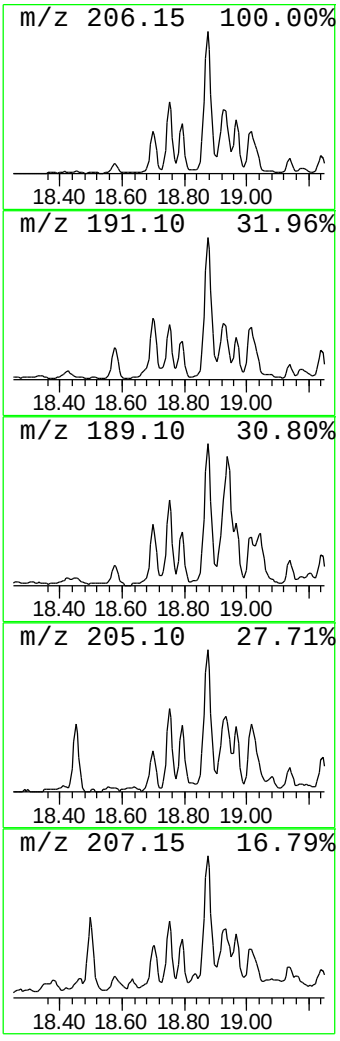
Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	6.41 ng/ul	204970	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91





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Quant Title : SVOA CALIBRATION

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

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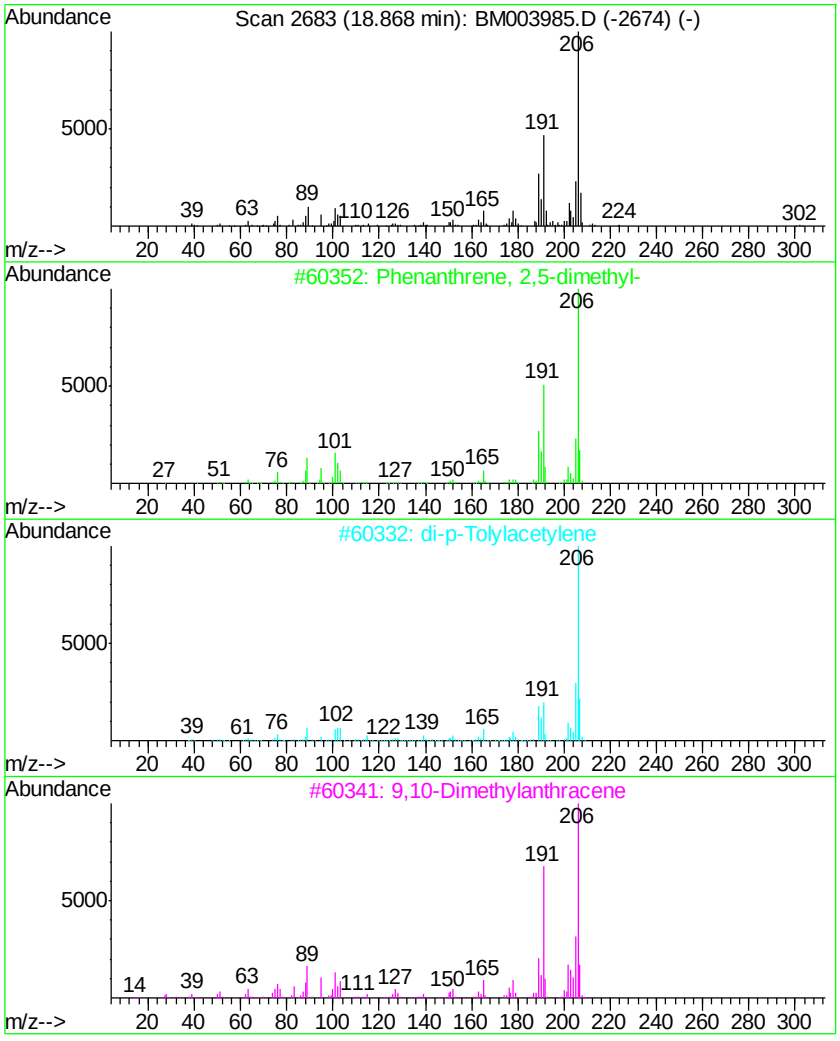
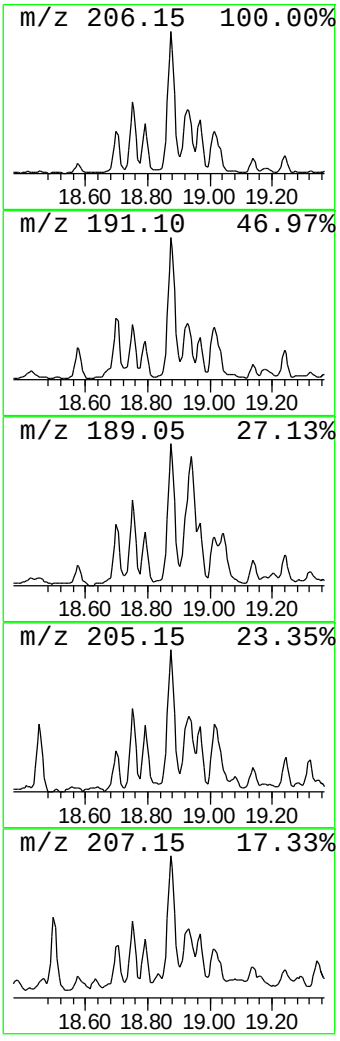
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.87	19.81 ng/ul	633694	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	95
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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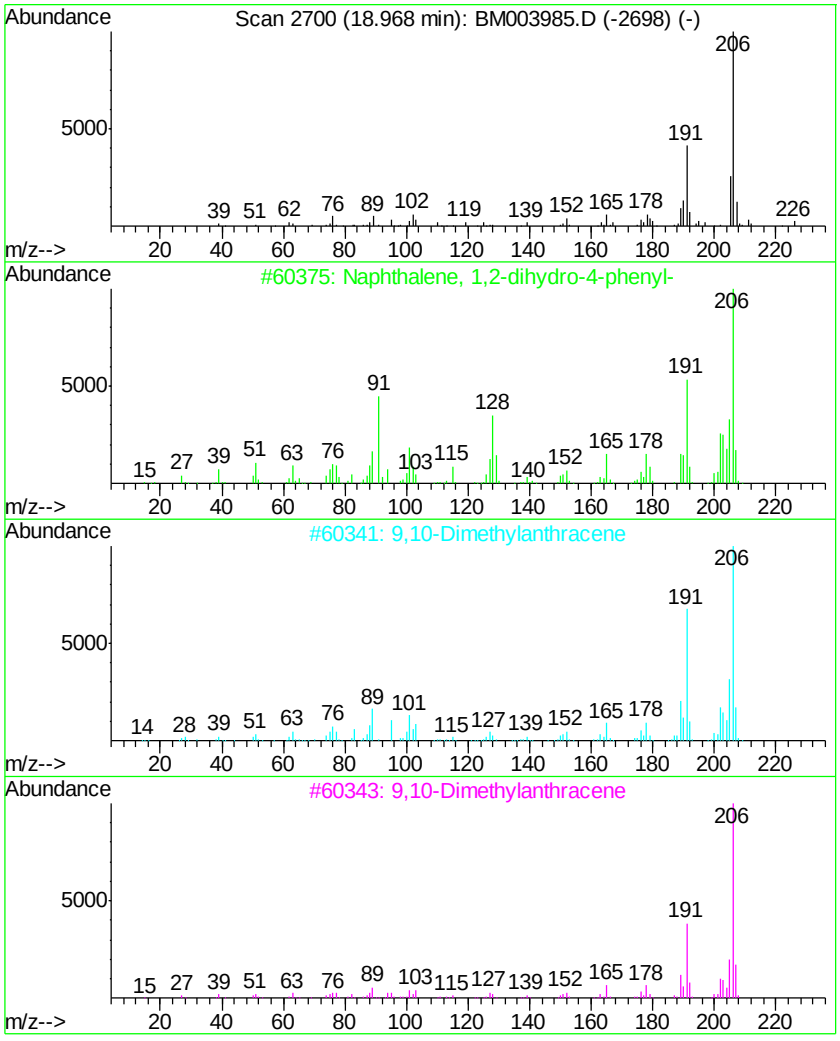
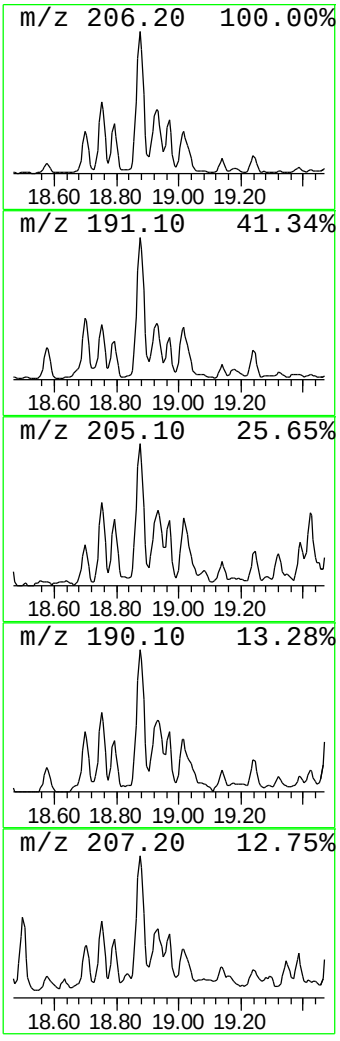
Peak Number 18 Naphthalene, 1,2-dihydro-4-... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	3.47 ng/ul	110950	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	83
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	80





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Quant Title : SVOA CALIBRATION

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

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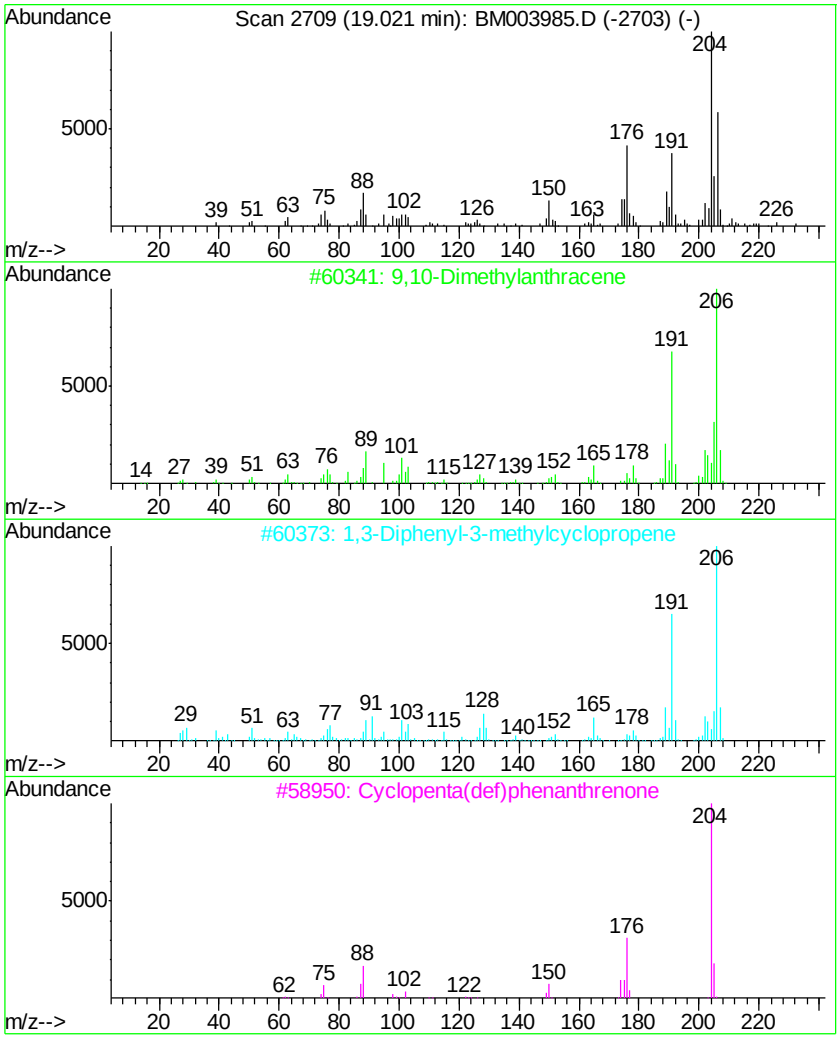
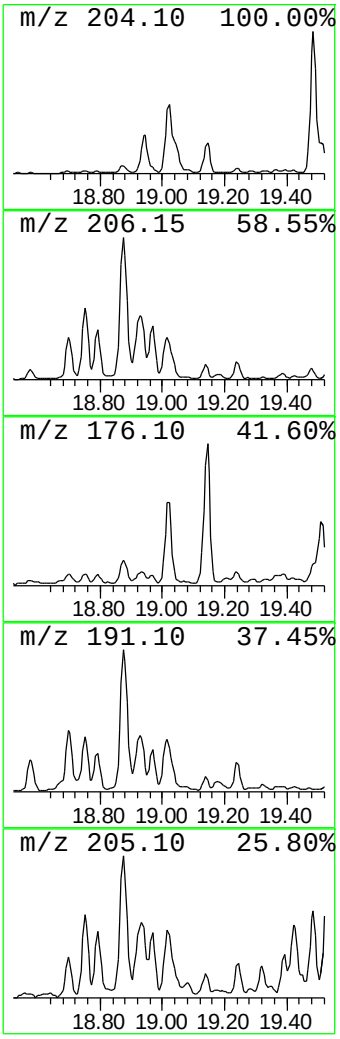
Peak Number 19 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	11.36 ng/ul	363265	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	86
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	80
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	64
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	64





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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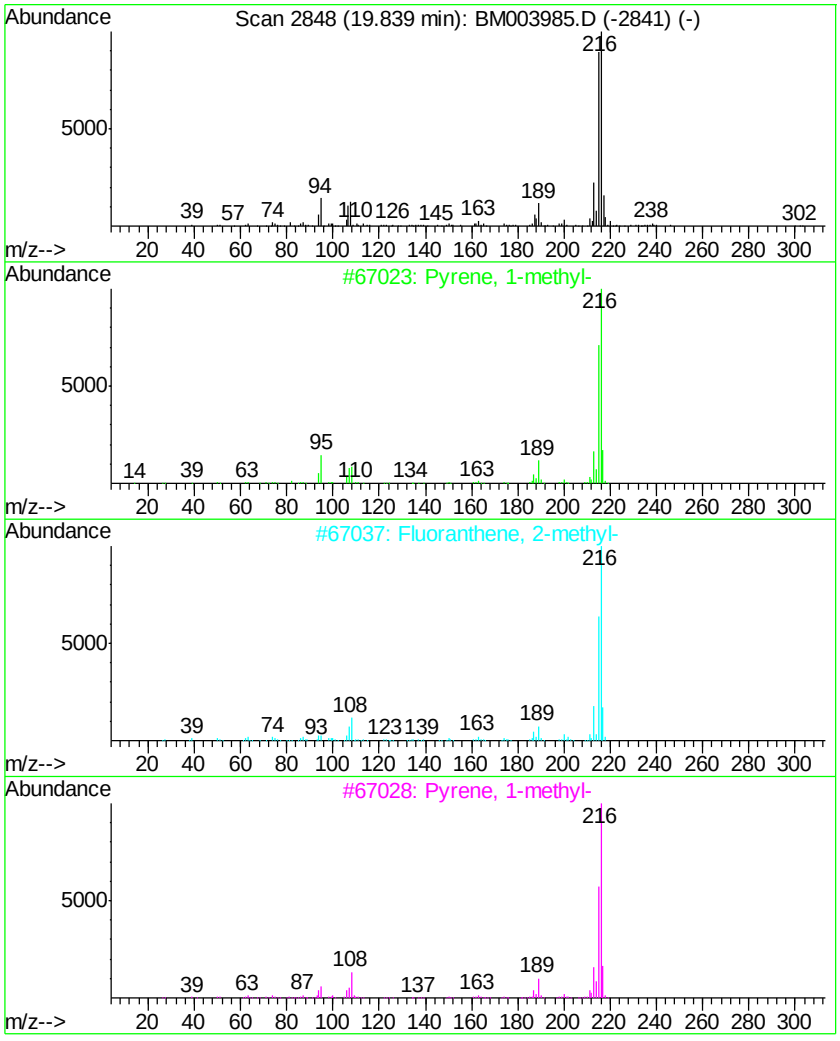
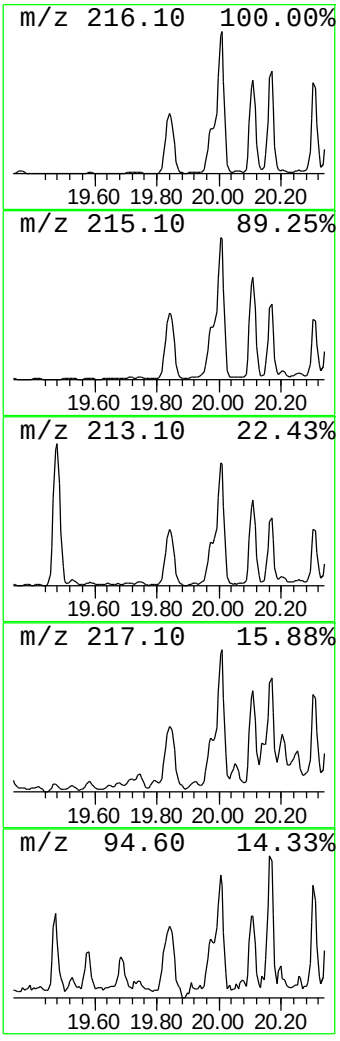
Peak Number 21 Pyrene, 1-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.84	5.04 ng/ul	606395	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

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

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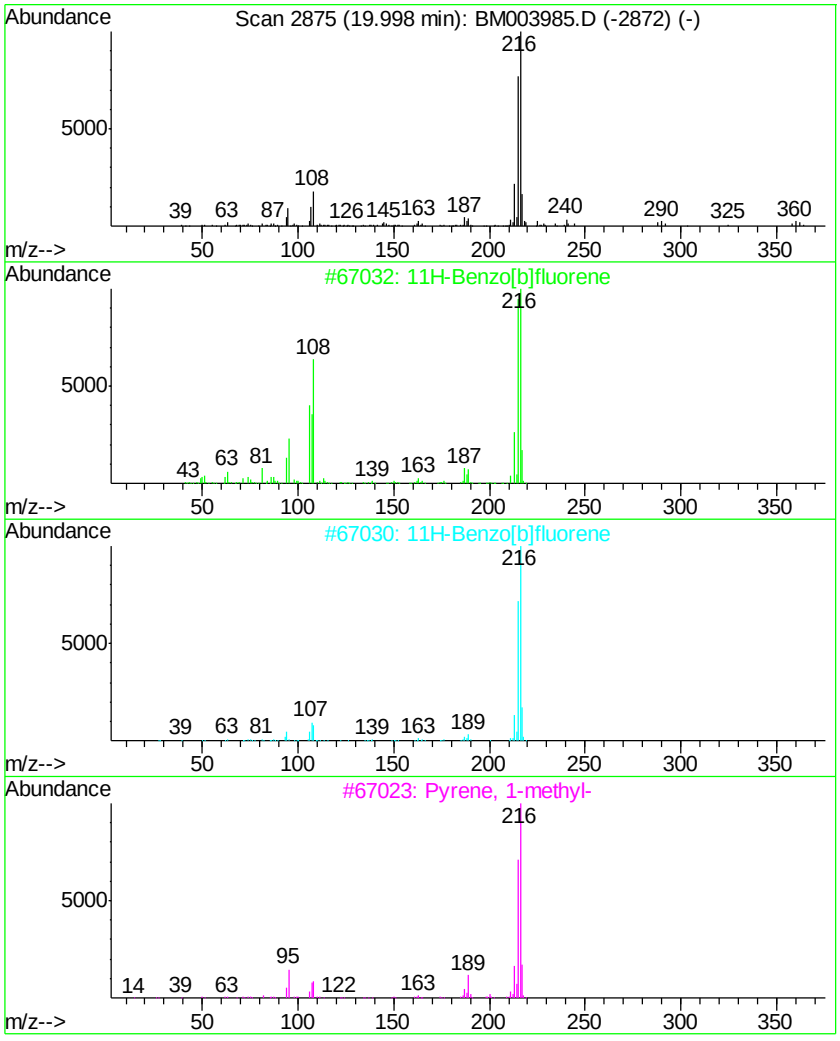
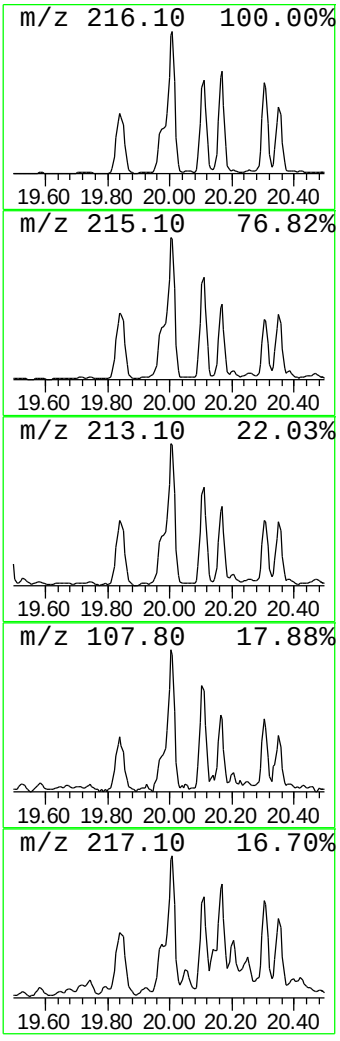
Peak Number 23 11H-Benzo[b]fluorene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	5.87 ng/ul	705834	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

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

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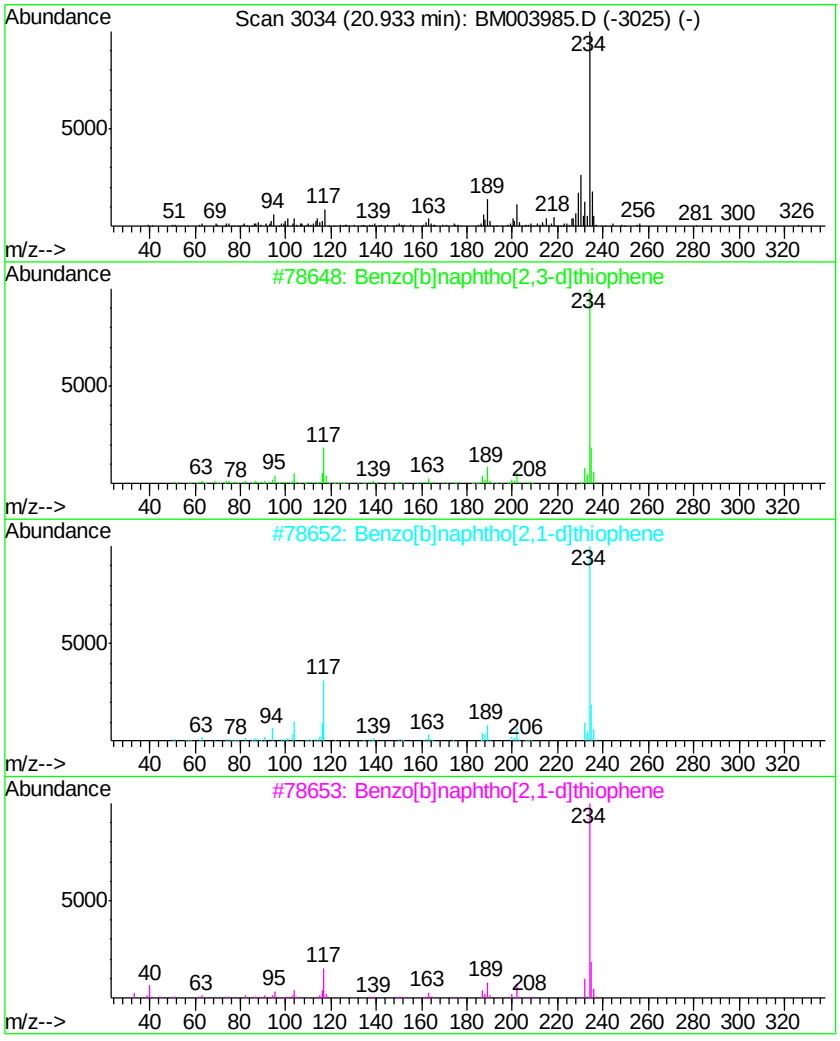
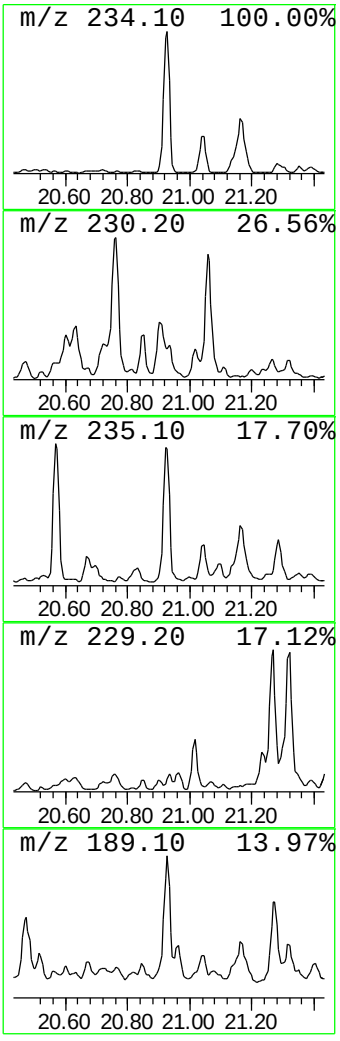
Peak Number 29 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.93	4.07 ng/ul	489137	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

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

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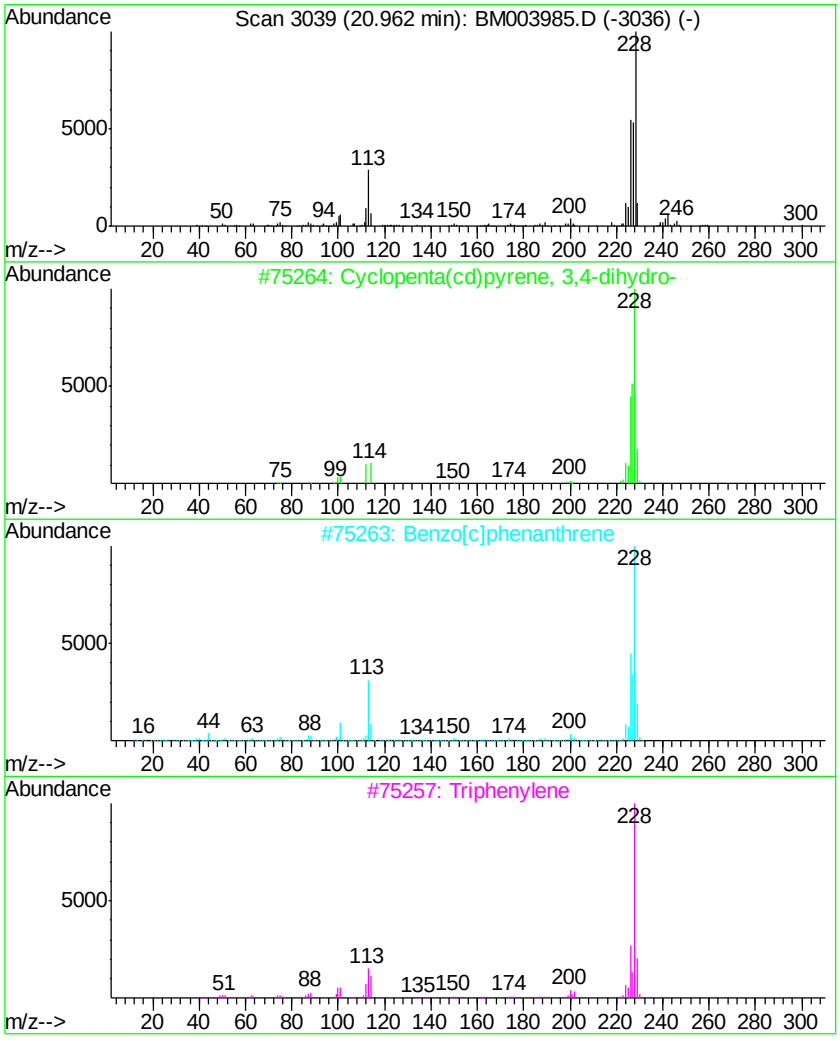
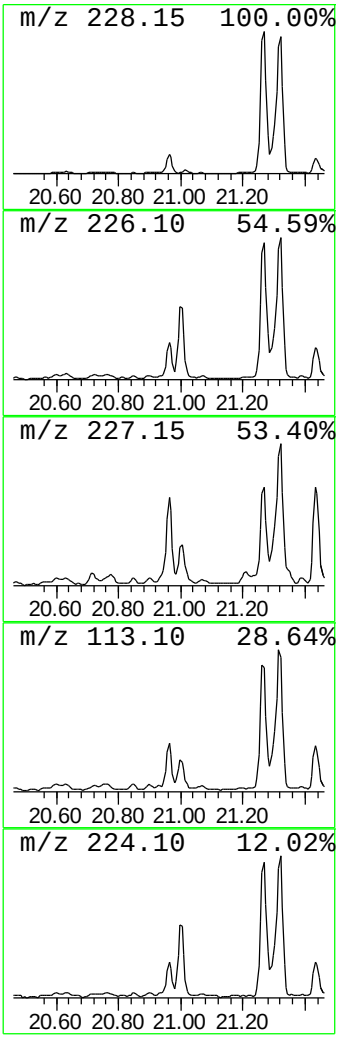
Peak Number 30 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.96	2.43 ng/ul	291869	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	60
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	46
3	Triphenylene	228	C18H12	000217-59-4	43
4	2-Nitrophenyl selenocyanate	228	C7H4N2O2Se	051694-22-5	43
5	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	38





Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION

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

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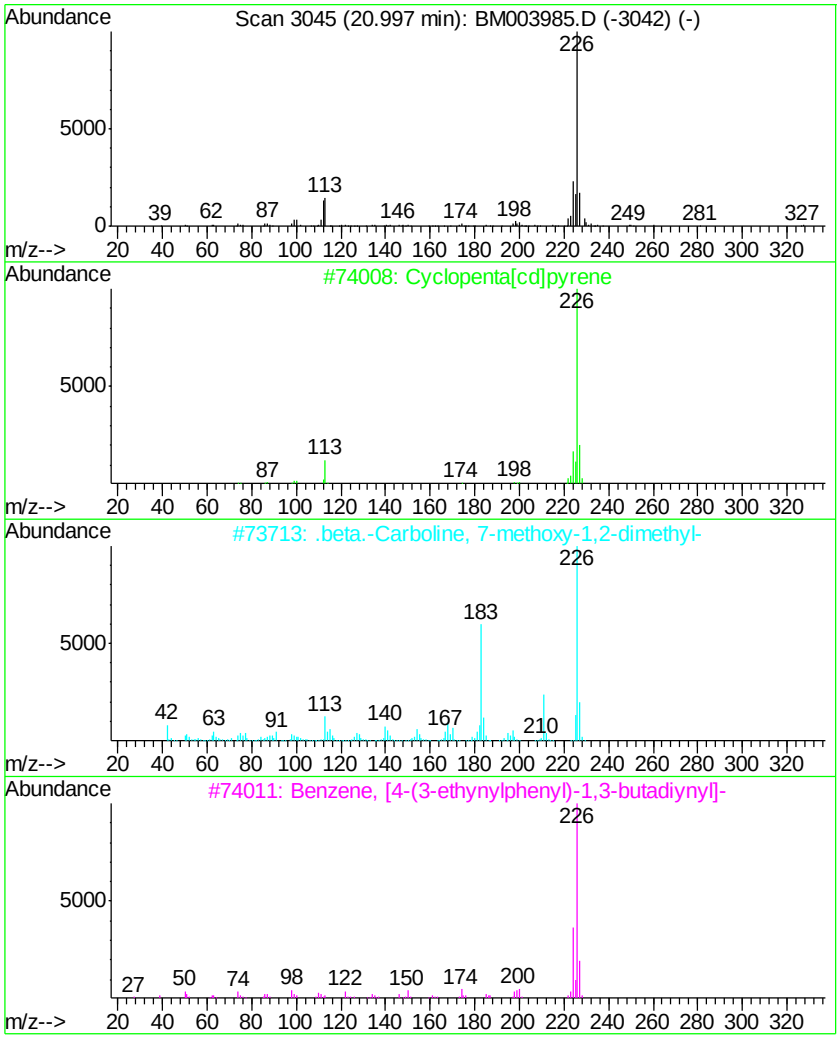
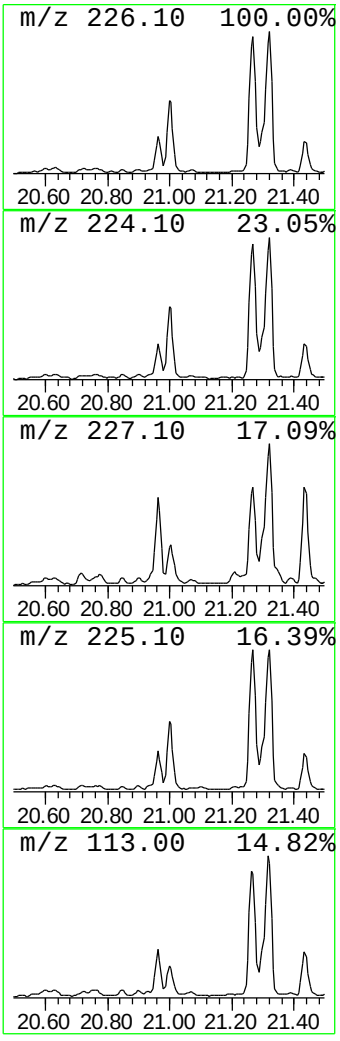
Peak Number 31 Cyclopenta[cd]pyrene Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	2.98 ng/ul	357844	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	70
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
3	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	47
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	38
5	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	33





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM011316\
Data File : BM003985.D
Acq On : 13 Jan 2016 10:49
Operator : SJ/UM
Sample : H1095-19
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BC9A7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM010116.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
unknown-01	3.65	12.2	ng/ul	131496	1	7.66	214985	20.0
unknown-02	16.04	4.9	ng/ul	156647	4	17.07	639669	20.0
Naphtho[2,3-b]thi...	16.89	4.7	ng/ul	149201	4	17.07	639669	20.0
Benzo[f]quinoline	17.26	3.3	ng/ul	104986	4	17.07	639669	20.0
Dibenzothiophene,...	17.65	4.5	ng/ul	144635	4	17.07	639669	20.0
Phenanthrene, 2-m...	17.94	15.7	ng/ul	503294	4	17.07	639669	20.0
Phenanthrene, 1-m...	18.00	19.8	ng/ul	632933	4	17.07	639669	20.0
4H-Cyclopenta[def...	18.14	24.1	ng/ul	771955	4	17.07	639669	20.0
1H-Cyclopropa[l]p...	18.18	10.7	ng/ul	342625	4	17.07	639669	20.0
Naphthalene, 2-ph...	18.45	8.8	ng/ul	282876	4	17.07	639669	20.0
9,10-Anthracenedione	18.50	15.5	ng/ul	494500	4	17.07	639669	20.0
Phenanthrene, 2,3...	18.70	5.2	ng/ul	166355	4	17.07	639669	20.0
Phenanthrene, 3,6...	18.75	6.4	ng/ul	204970	4	17.07	639669	20.0
Phenanthrene, 2,5...	18.87	19.8	ng/ul	633694	4	17.07	639669	20.0
Naphthalene, 1,2-...	18.97	3.5	ng/ul	110950	4	17.07	639669	20.0
9,10-Dimethylanth...	19.02	11.4	ng/ul	363265	4	17.07	639669	20.0
Pyrene, 1-methyl-	19.84	5.0	ng/ul	606395	5	21.28	2405280	20.0
11H-Benzo[b]fluorene	20.00	5.9	ng/ul	705834	5	21.28	2405280	20.0
Benzo[b]naphtho[2...	20.93	4.1	ng/ul	489137	5	21.28	2405280	20.0
Cyclopenta(cd)pyr...	20.96	2.4	ng/ul	291869	5	21.28	2405280	20.0
Cyclopenta[cd]pyrene	21.00	3.0	ng/ul	357844	5	21.28	2405280	20.0