LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081216\
Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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-BM081116.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	3.028	72	75	81	rVB	70627	85947	1.28%	0.076%
2	3.328	121	126	130	rBV	63960	80116	1.19%	0.071%
3	3.834	207	212	219	rBV	72595	97060	1.44%	0.086%
4	6.975	739	746	757	rBV	1049447	1770821	26.33%	1.572%
5	7.151	768	776	783	rBV	808090	1260577	18.74%	1.119%
6	7.345	802	809	819	rBV	1125052	1783446	26.51%	1.584%
7	7.816	880	889	896	rBV	926719	1466923	21.81%	1.303%
8	8.510	1000	1007	1015	rBV	1145352	1822500	27.09%	1.618%
9	8.969	1077	1085	1095	rBV	1005078	1680832	24.99%	1.493%
10	9.075	1095	1103	1109	rBV	58690	94356	1.40%	0.084%
11	9.686	1199	1207	1215	rBV	855668	1421654	21.13%	1.262%
12	10.216	1289	1297	1305	rBV	1357476	2289298	34.03%	2.033%
13	10.598	1355	1362	1369	rBV	1231348	2117541	31.48%	1.880%
14	10.733	1375	1385	1395	rBV	1010470	1784439	26.53%	1.585%
15	12.480	1677	1682	1688	rVB	53538	80680	1.20%	0.072%
16	13.621	1866	1876	1882	rBV4	45672	115295	1.71%	0.102%
17	13.768	1892	1901	1906	rBV2	106012	193979	2.88%	0.172%
18	13.857	1910	1916	1920	rVV	2263042	3217079	47.83%	2.857%
19	13.904	1920	1924	1932	rVB	2028084	2806384	41.72%	2.492%
20	13.998	1932	1940	1944	rBV	58482	104351	1.55%	0.093%
21	14.139	1957	1964	1980	rVB	2541475	4275304	63.56%	3.796%
22	14.445	2006	2016	2023	rBV2	1882823	2936499	43.65%	2.608%
23	14.633	2042	2048	2060	rBV	975603	1524770	22.67%	1.354%
24	14.845	2078	2084	2092	rVB3	96660	190618	2.83%	0.169%
25	14.921	2092	2097	2102	rVB2	102711	157765	2.35%	0.140%
26	15.062	2113	2121	2126	rBV3	83106	208279	3.10%	0.185%
27	15.115	2126	2130	2134	rVB	60756	83953	1.25%	0.075%
28	15.245	2148	2152	2159	rVV3	67592	178548	2.65%	0.159%
29	15.304	2159	2162	2169	rVB2	151949	231886	3.45%	0.206%
30	15.439	2176	2185	2191	rBV	3318915	4775228	70.99%	4.240%
31	15.492	2191	2194	2197	rVV2	93352	126943	1.89%	0.113%
32	15.551	2199	2204	2212	rVB	663463	936597	13.92%	0.832%
33	15.786	2239	2244	2253	rVB5	46162	119242	1.77%	0.106%
34	15.939	2261	2270	2277	rBV8	59232	151579	2.25%	0.135%

LSC Area Percent Report

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Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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-BM081116.M
Title : SVOA CALIBRATION

35	16.168	2304	2309	2317	rBV2	246154	420779	6.26%	0.374%
36	16.304	2328	2332	2335	rBV2	49004	77744	1.16%	0.069%
37	16.498	2357	2365	2369	rBV5	92071	221073	3.29%	0.196%
38	16.545	2369	2373	2379	rVB2	76276	124369	1.85%	0.110%
39	16.845	2419	2424	2431	rVB5	79479	144831	2.15%	0.129%
40	16.956	2440	2443	2447	rVB2	96559	112995	1.68%	0.100%
41	17.009	2448	2452	2461	rVB	174748	276253	4.11%	0.245%
42	17.092	2461	2466	2473	rBV6	54126	105346	1.57%	0.094%
43	17.186	2473	2482	2486	rBV	2317828	3503239	52.08%	3.111%
44	17.227	2486	2489	2494	rVB	1285299	1704959	25.35%	1.514%
45	17.286	2494	2499	2504	rBV2	3307820	4897515	72.81%	4.349%
46	17.374	2509	2514	2520	rBV2	106512	201956	3.00%	0.179%
47	17.462	2525	2529	2533	rVV4	49346	113780	1.69%	0.101%
48	17.498	2533	2535	2540	rVB2	68145	84778	1.26%	0.075%
49	17.586	2545	2550	2554	rBV3	61016	125797	1.87%	0.112%
50	17.703	2566	2570	2575	rVB2	71150	129531	1.93%	0.115%
51	17.768	2577	2581	2588	rVB	249362	350749	5.21%	0.311%
52	17.909	2601	2605	2611	rVB	134817	235208	3.50%	0.209%
53	17.980	2612	2617	2621	rBV4	78361	142627	2.12%	0.127%
54	18.027	2621	2625	2626	rVV4	64237	88112	1.31%	0.078%
55	18.062	2626	2631	2633	rVV	660419	1036820	15.41%	0.921%
56	18.109	2636	2639	2645	rVV	916435	1321311	19.64%	1.173%
57	18.192	2649	2653	2657	rVV2	168963	272882	4.06%	0.242%
58	18.250	2658	2663	2667	rVV2	780227	1380132	20.52%	1.226%
59	18.292	2667	2670	2677	rVB	514861	736740	10.95%	0.654%
60	18.386	2682	2686	2688	rBV4	99951	150282	2.23%	0.133%
61	18.456	2695	2698	2703	rVB2	136551	196623	2.92%	0.175%
62	18.562	2712	2716	2719	rBV2	295631	387992	5.77%	0.345%
63	18.603	2719	2723	2734	rVB3	302609	677709	10.08%	0.602%
64	18.692	2734	2738	2739	rBV	75342	89045	1.32%	0.079%
65	18.780	2750	2753	2755	rBV	132406	173356	2.58%	0.154%
66	18.809	2755	2758	2762	rVV	264231	355210	5.28%	0.315%
67	18.862	2763	2767	2770	rVV	425957	552112	8.21%	0.490%
68	18.897	2770	2773	2778	rVB2	329654	457690	6.80%	0.406%
69	18.986	2782	2788	2792	rBV	881791	1392532	20.70%	1.237%
70	19.039	2792	2797	2800	rVV3	377318	692117	10.29%	0.615%
71	19.074	2800	2803	2807	rVB	308421	372593	5.54%	0.331%

LSC Area Percent Report

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Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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-BM081116.M
Title : SVOA CALIBRATION

72	19.121	2807	2811	2818	rBV2	397683	809818	12.04%	0.719%
73	19.244	2827	2832	2839	rVB	2361911	3136050	46.62%	2.785%
74	19.309	2839	2843	2846	rBV	203741	303788	4.52%	0.270%
75	19.368	2846	2853	2855	rBV3	398339	644520	9.58%	0.572%
76	19.486	2870	2873	2877	rBV3	153740	199925	2.97%	0.178%
77	19.580	2883	2889	2892	rBV	4299304	6726628	100.00%	5.973%
78	19.609	2892	2894	2902	rVB	2931739	3692621	54.90%	3.279%
79	19.686	2902	2907	2912	rBV2	484725	868694	12.91%	0.771%
80	19.933	2945	2949	2960	rVB5	466732	1239748	18.43%	1.101%
81	20.021	2961	2964	2967	rVV2	151812	202647	3.01%	0.180%
82	20.068	2968	2972	2974	rVV3	368819	593230	8.82%	0.527%
83	20.103	2975	2978	2982	rVB	578959	764960	11.37%	0.679%
84	20.203	2992	2995	2998	rVB	269281	287915	4.28%	0.256%
85	20.262	3000	3005	3009	rBV	694280	942757	14.02%	0.837%
86	20.403	3025	3029	3032	rBV	564113	683115	10.16%	0.607%
87	20.444	3033	3036	3040	rVB	531890	663188	9.86%	0.589%
88	20.850	3102	3105	3112	rVB	463719	724402	10.77%	0.643%
89	21.021	3126	3134	3137	rBV4	519735	1082503	16.09%	0.961%
90	21.056	3137	3140	3142	rVV	213834	221850	3.30%	0.197%
91	21.091	3142	3146	3151	rBV3	552944	865251	12.86%	0.768%
92	21.368	3187	3193	3197	rBV2	3701064	6614896	98.34%	5.874%
93	21.409	3197	3200	3209	rVB	1437014	1995408	29.66%	1.772%
94	21.927	3286	3288	3293	rVB	545367	631194	9.38%	0.561%
95	21.980	3294	3297	3302	rVB	425326	610578	9.08%	0.542%
96	22.968	3460	3465	3470	rBV	986827	2202836	32.75%	1.956%
97	23.450	3543	3547	3551	rBV	610999	1089711	16.20%	0.968%
98	23.503	3551	3556	3561	rVV2	2903830	5478563	81.45%	4.865%
99	23.550	3561	3564	3573	rVB	1169221	1925320	28.62%	1.710%
100	23.650	3575	3581	3587	rBV	2108934	3932572	58.46%	3.492%

Sum of corrected areas: 112611964

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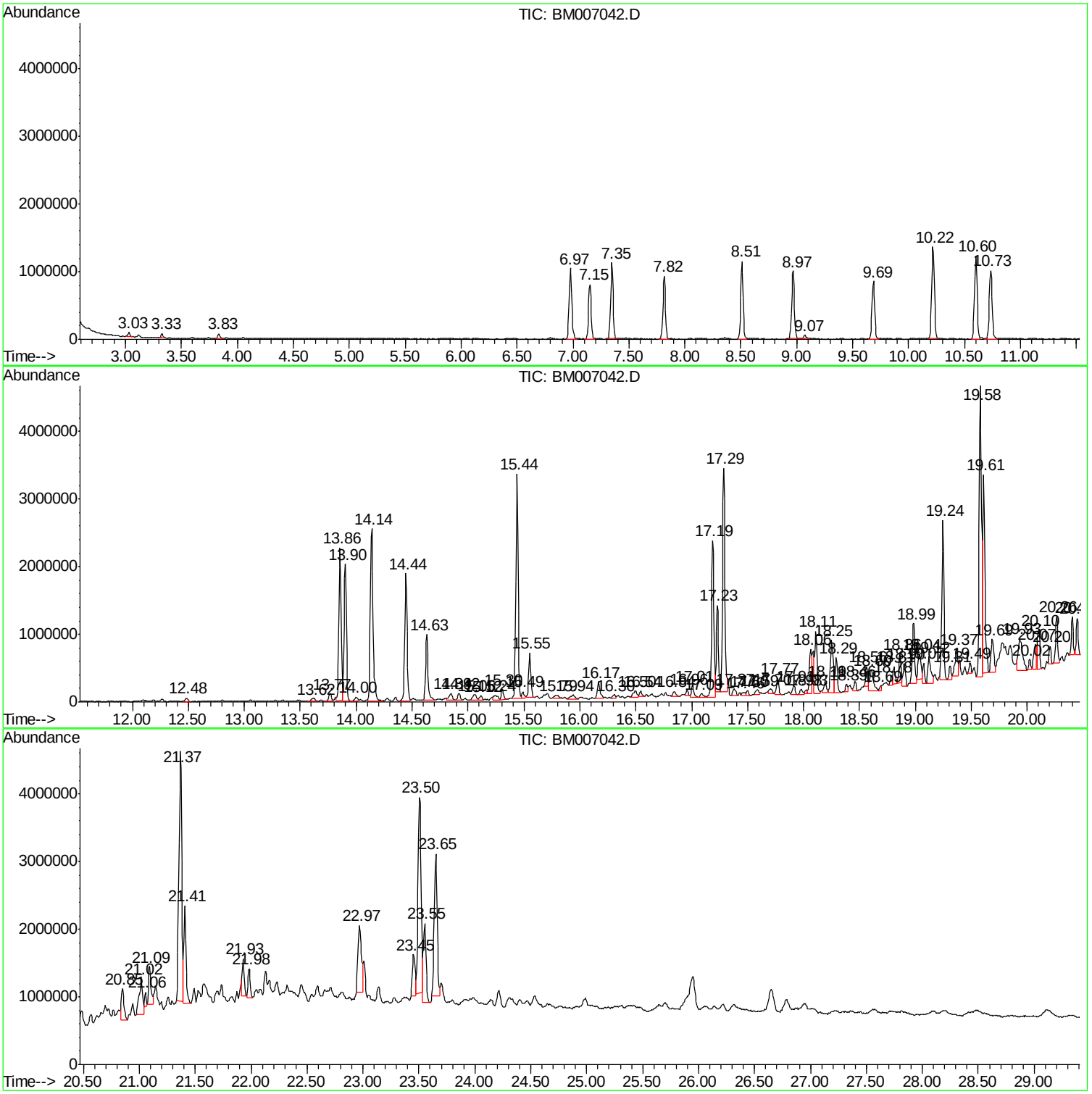
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

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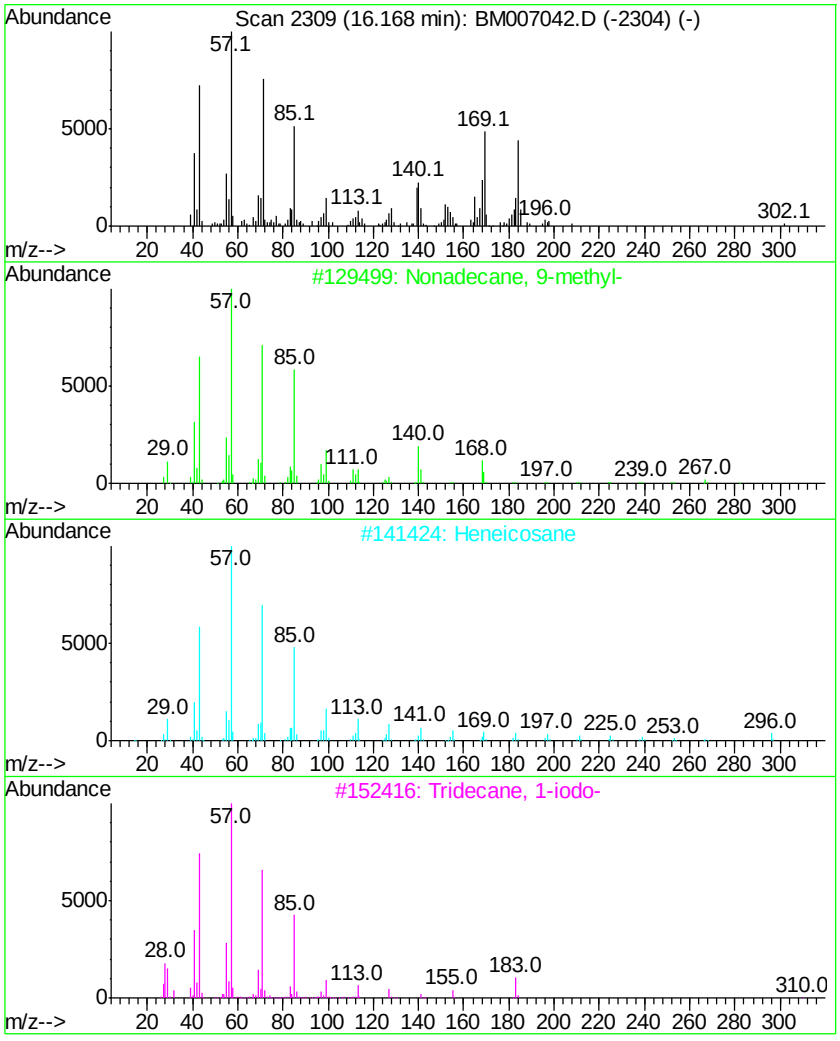
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

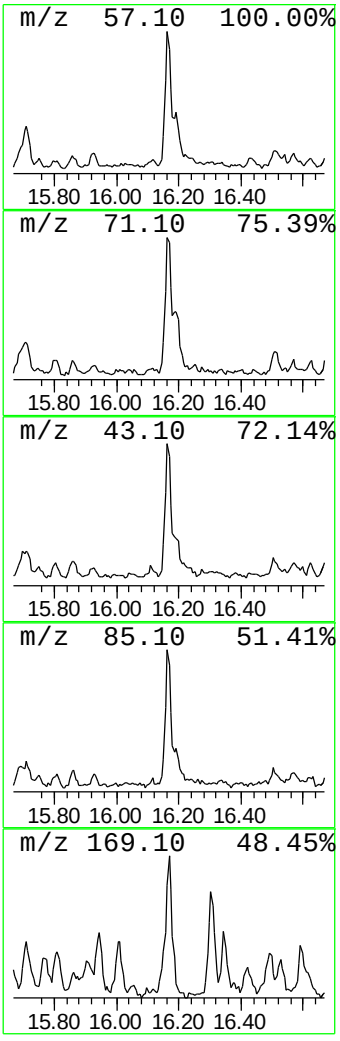
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	2.40 ng/ul	420779	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	46
2	Heneicosane	296	C21H44	000629-94-7	41
3	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	41
4	Nonadecane	268	C19H40	000629-92-5	38
5	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	38





Data Path : Z:\HPCHEM1\BNA M\DATA\BM081216\
Data File : BM007042.D
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Operator : UM/SJ
Sample : H4387-19
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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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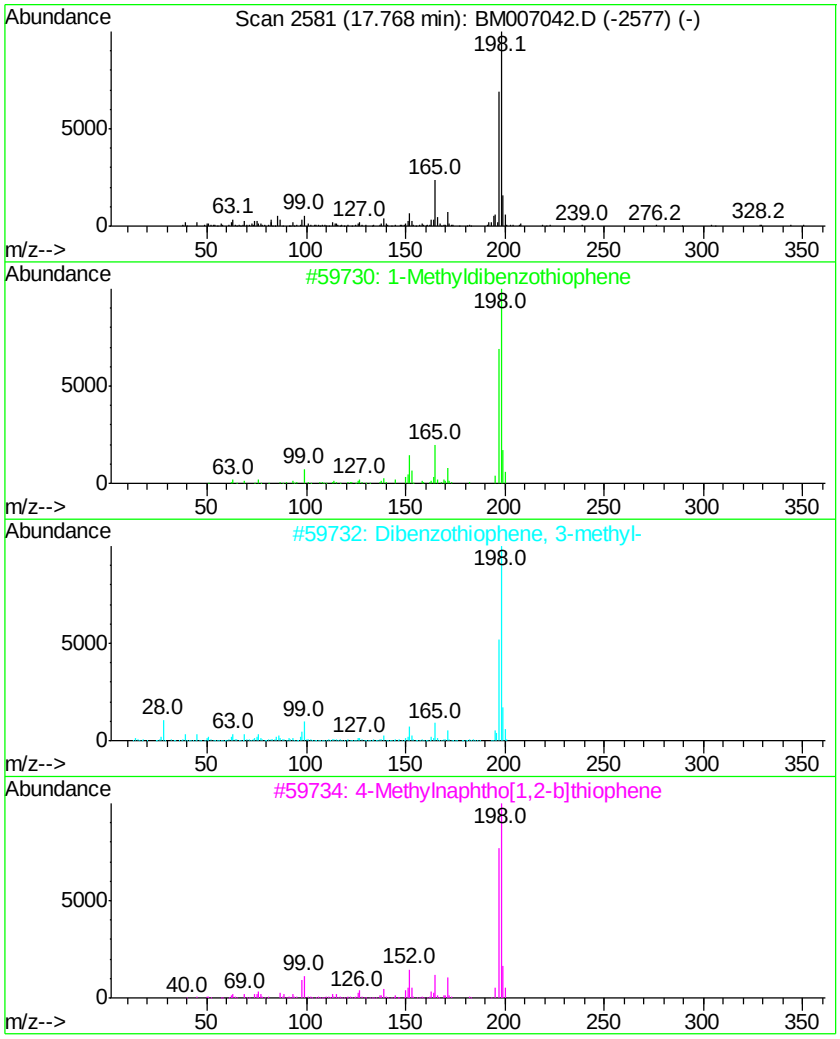
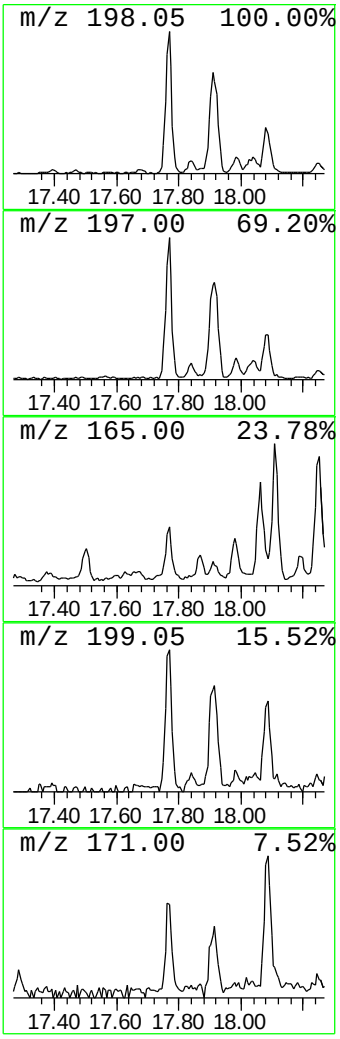
****

Peak Number 2 1-Methyldibenzothiophene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.77	2.00 ng/ul	350749	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	83
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	80
4	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	72
5	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	68





Library Search Compound Report

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ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

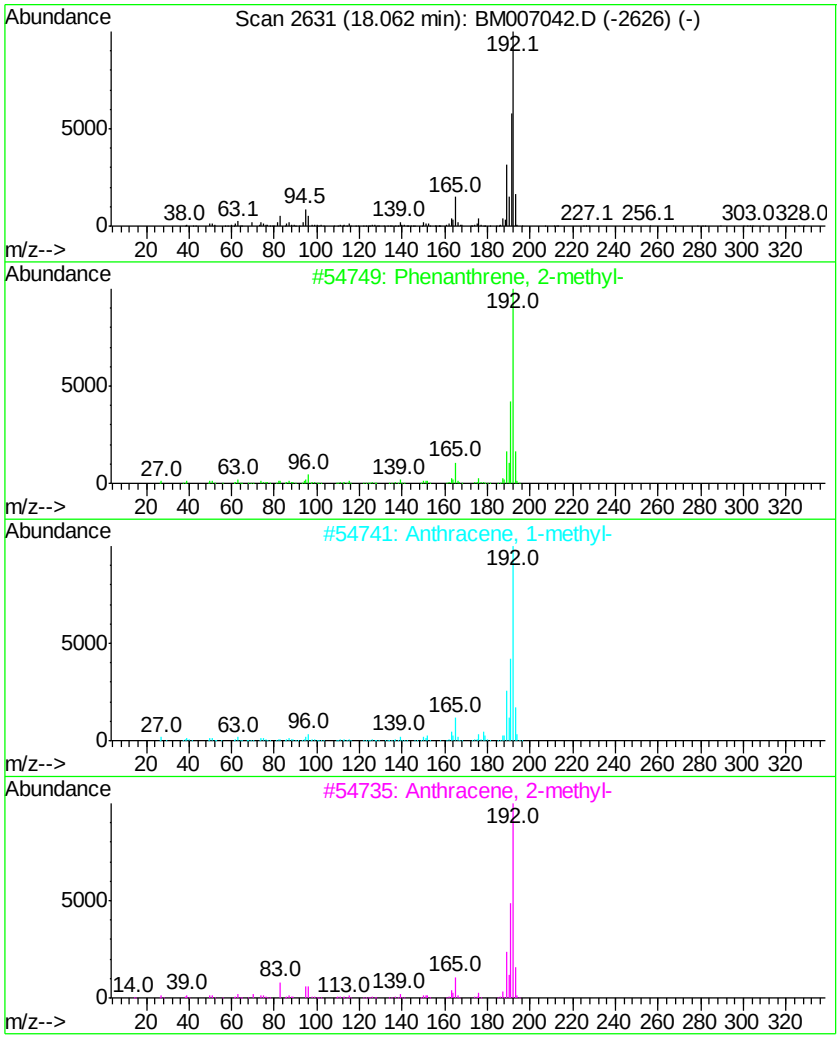
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

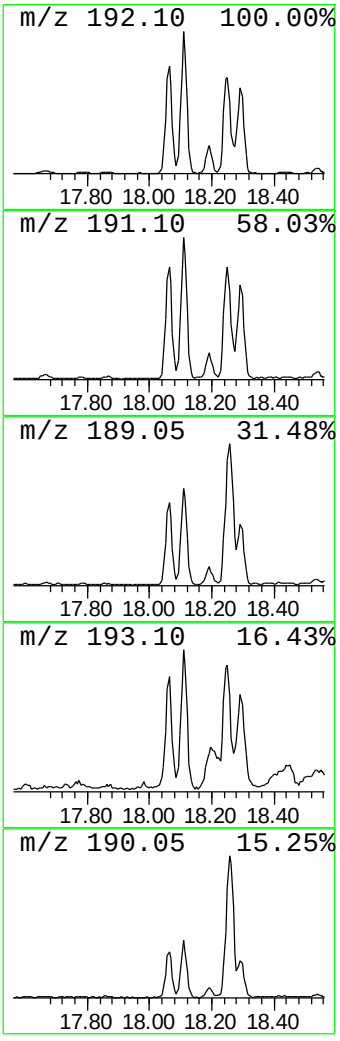
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	5.92 ng/ul	1036820	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91





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Sample : H4387-19
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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

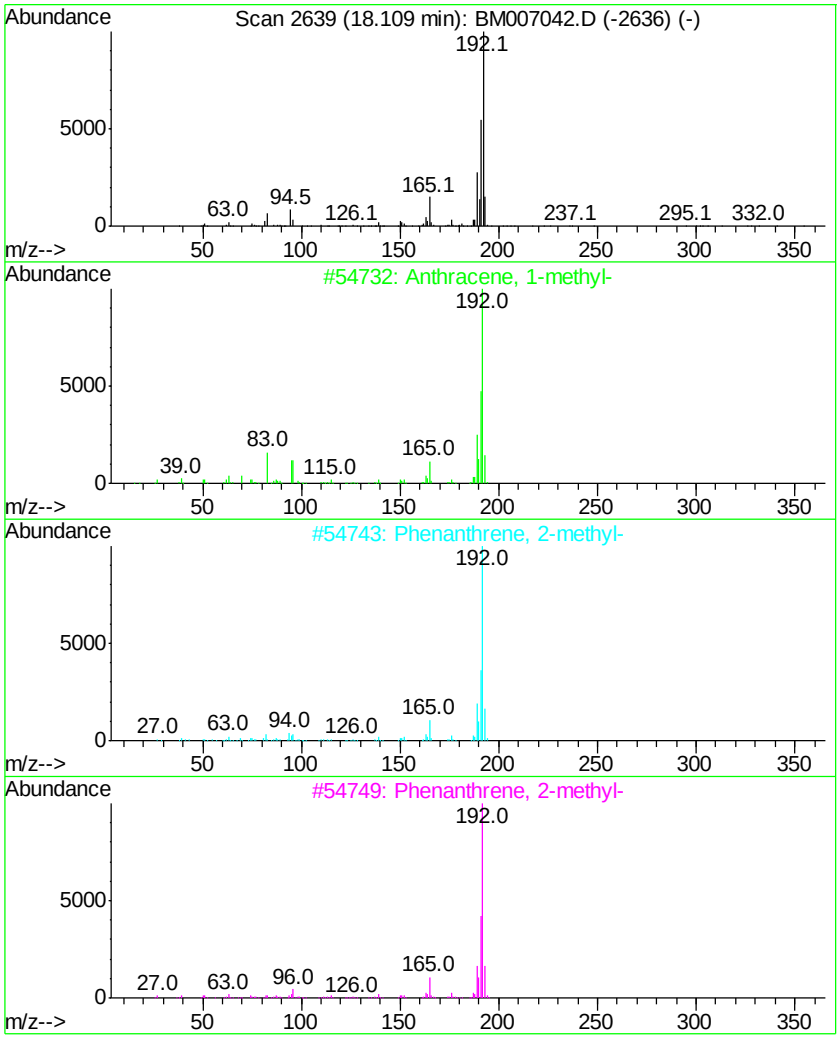
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

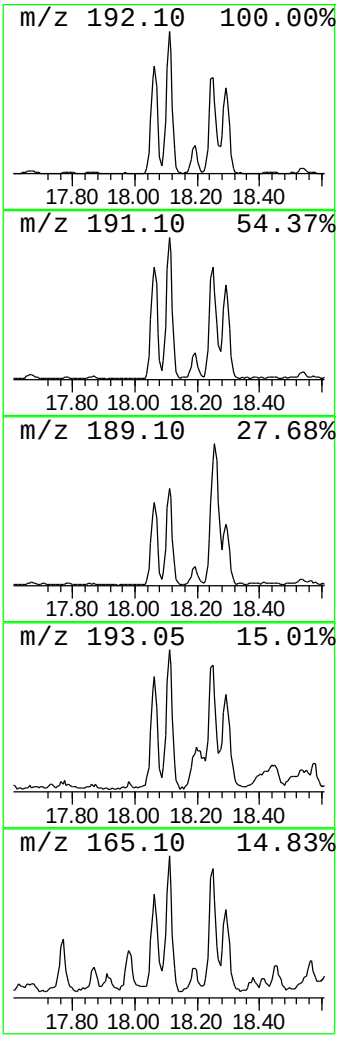
****

Peak Number 4 Anthracene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.11	7.54 ng/ul	1321310	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081216\
Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

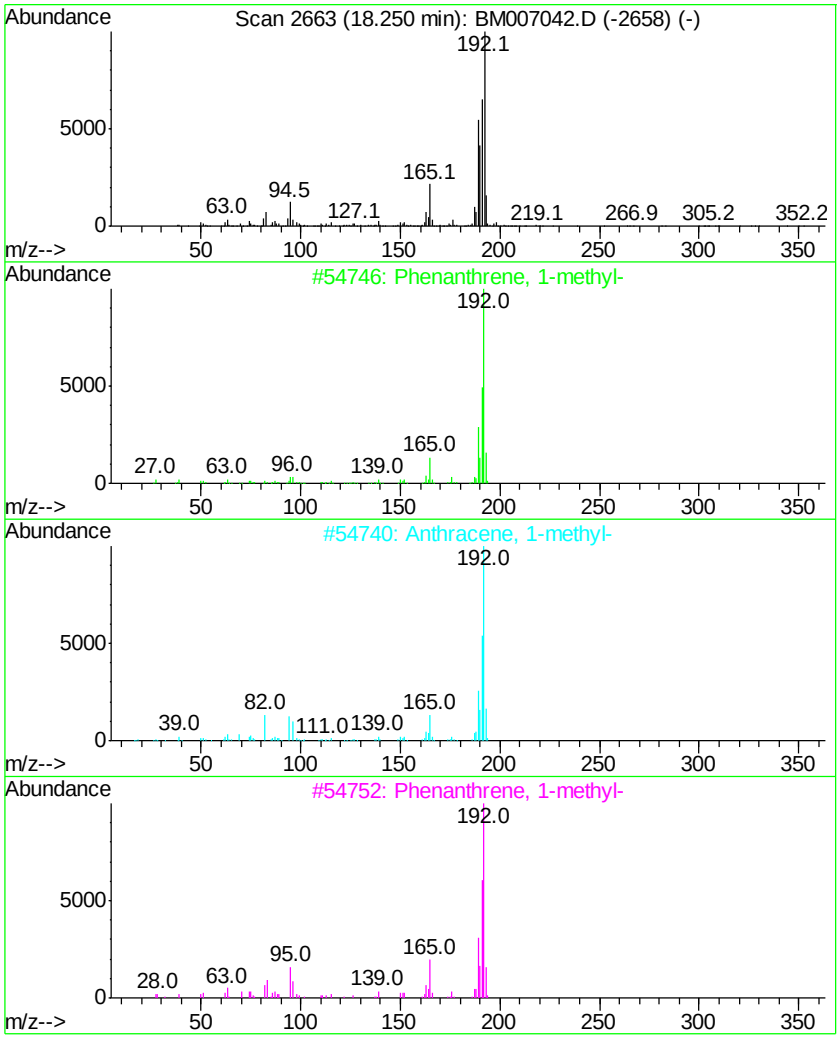
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

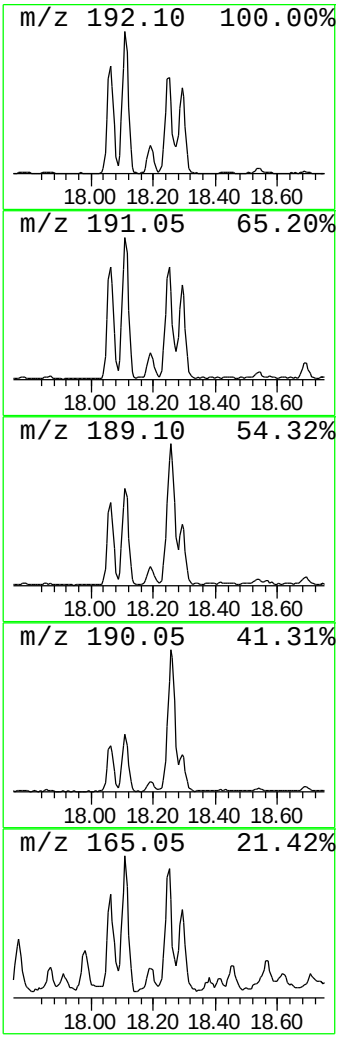
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.25	7.88 ng/ul	1380130	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	78
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	64





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Operator : UM/SJ
Sample : H4387-19
Misc :
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Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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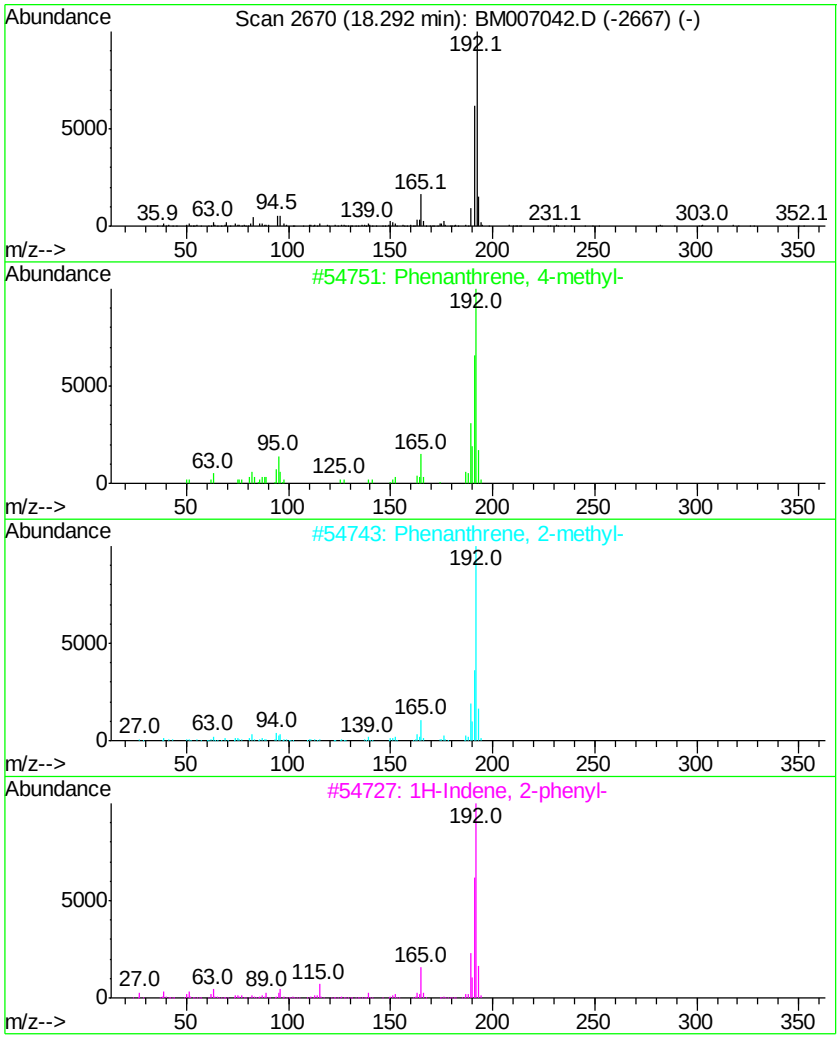
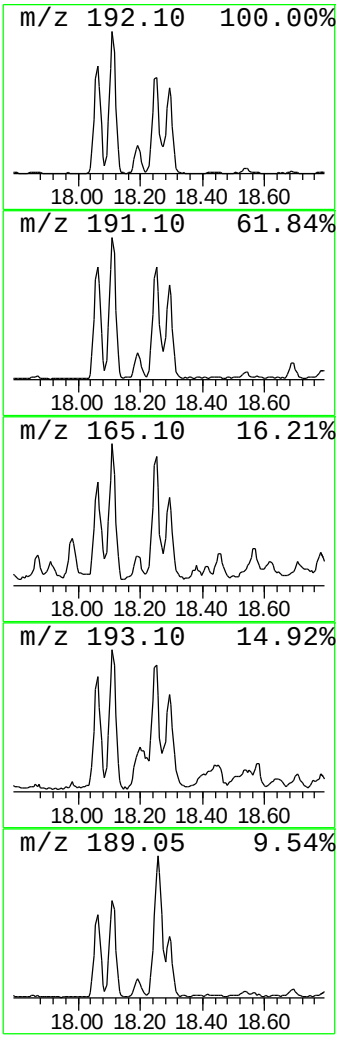
Peak Number 6 Phenanthrene, 4-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	4.21 ng/ul	736740	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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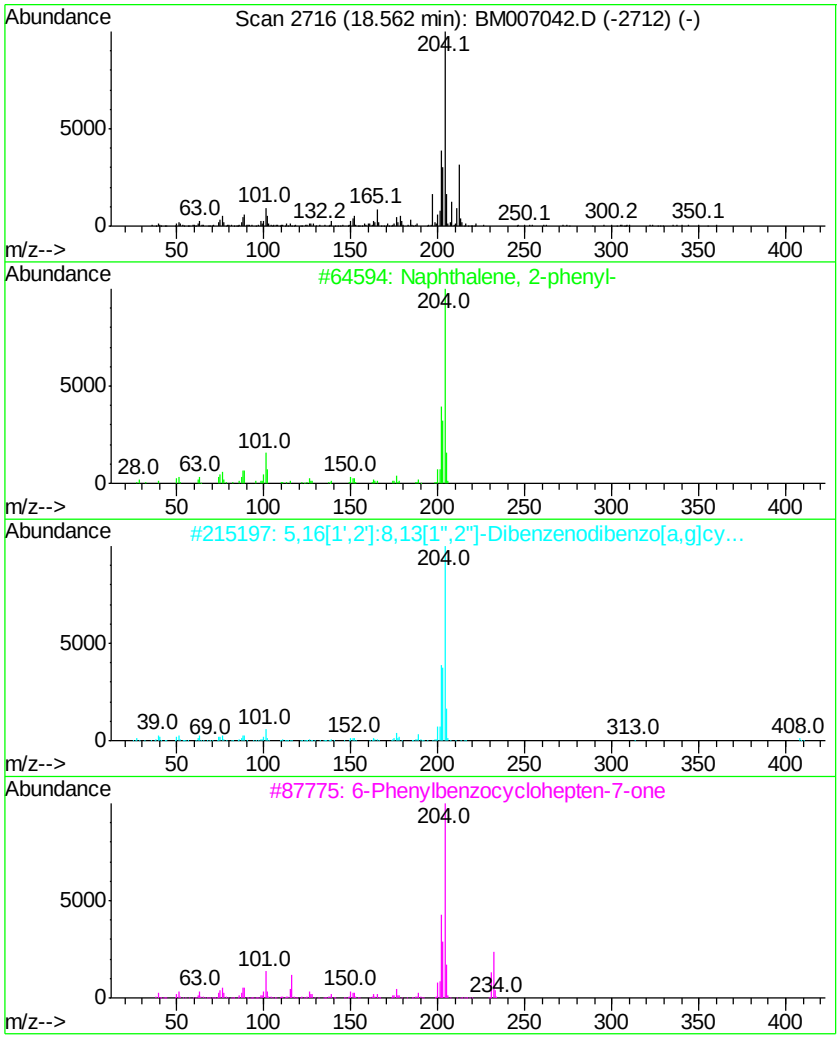
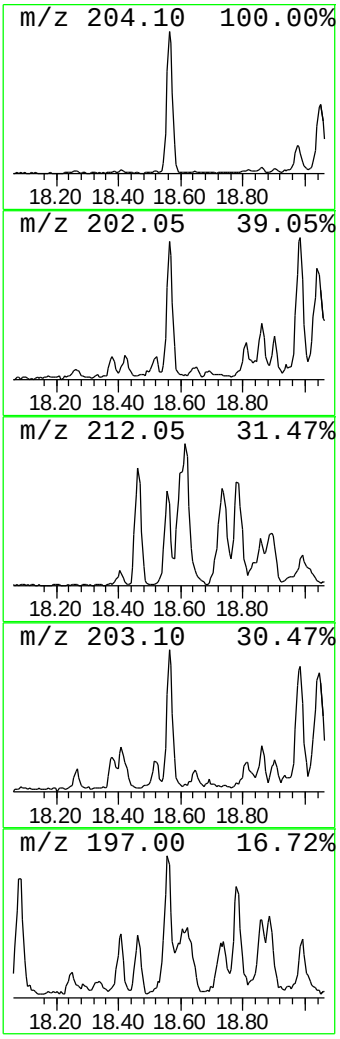
Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	2.22 ng/ul	387992	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	64
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	55
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55





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ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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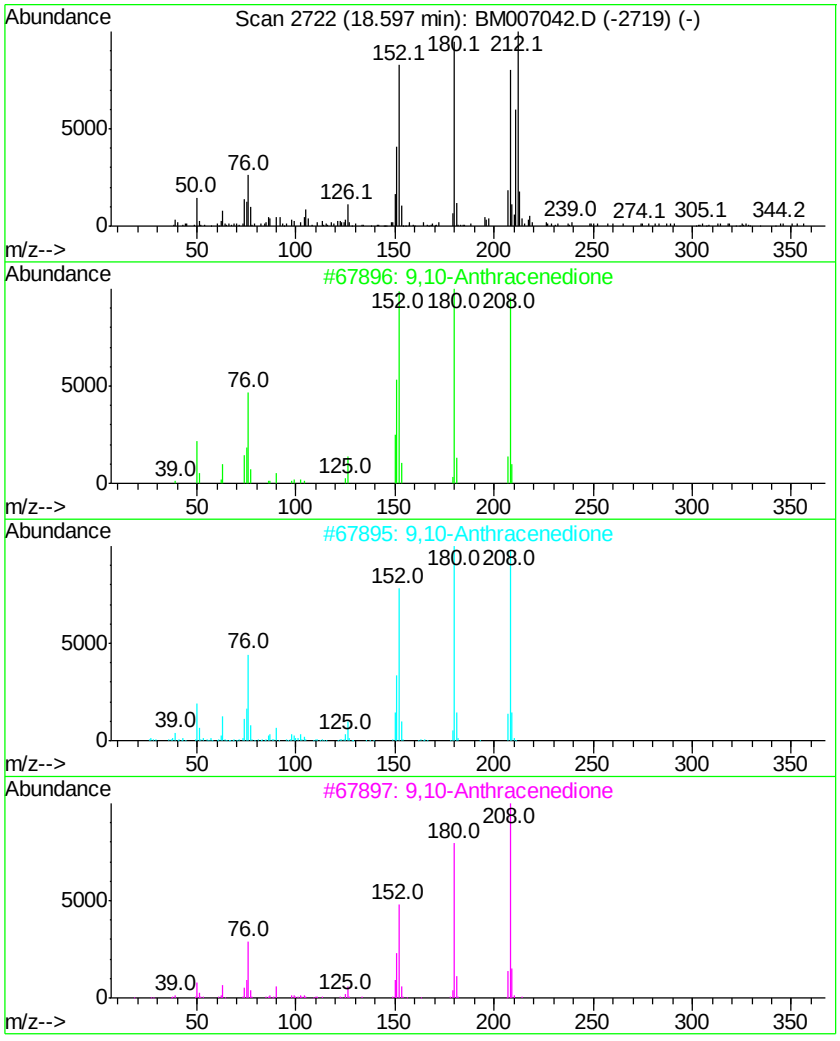
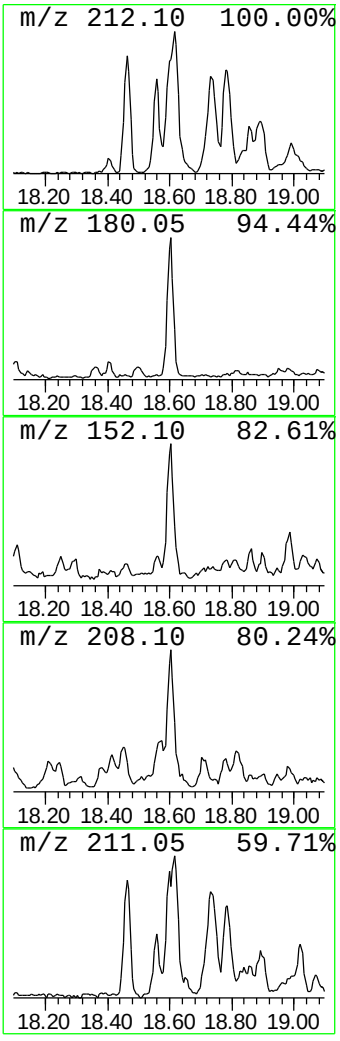
Peak Number 8 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	3.87 ng/ul	677709	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	83
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60





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Operator : UM/SJ
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Quant Title : SVOA CALIBRATION

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

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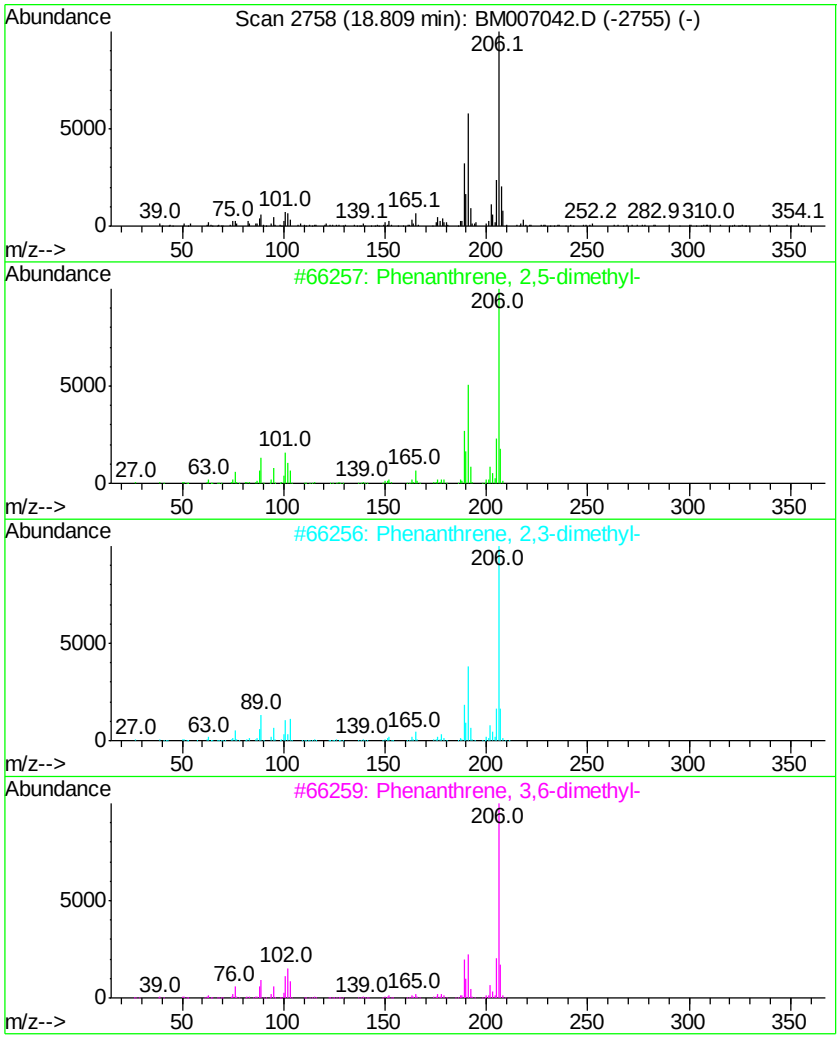
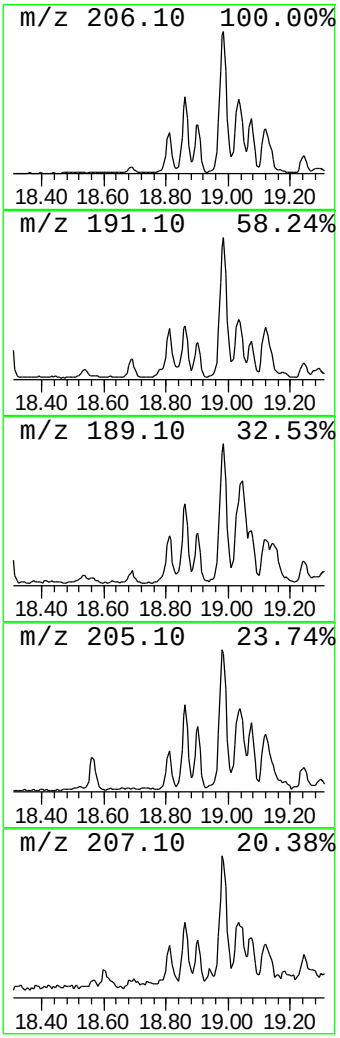
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.81	2.03 ng/ul	355210	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87





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Sample : H4387-19
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Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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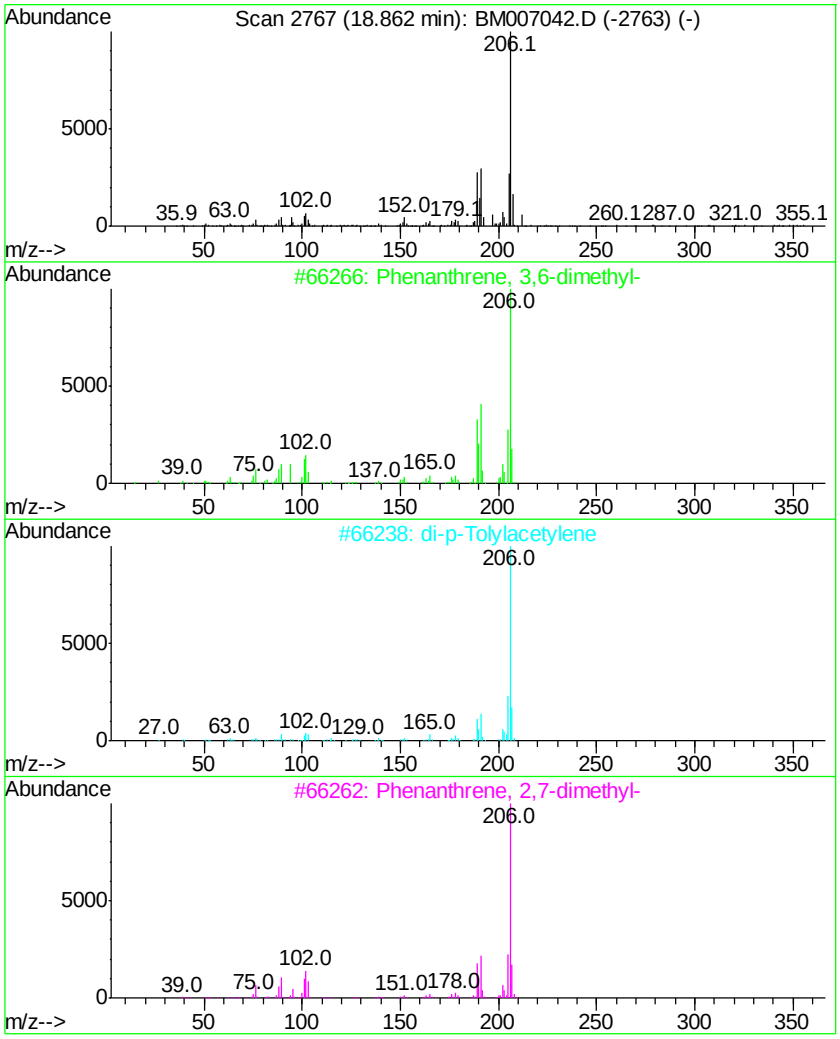
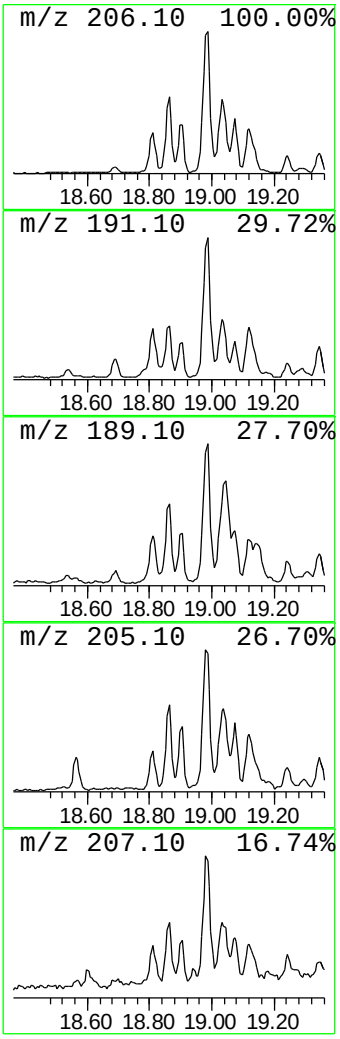
Peak Number 10 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	3.15 ng/ul	552112	Phenanthrene-d10	17.19

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, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83





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Misc :
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Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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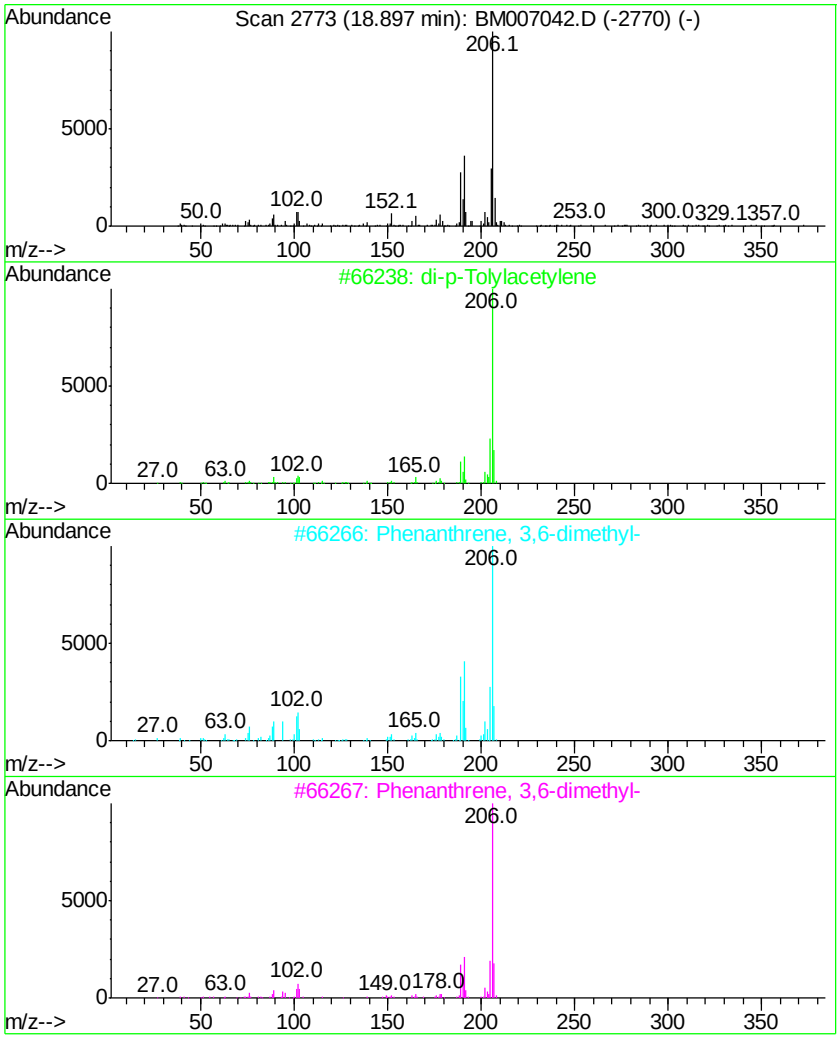
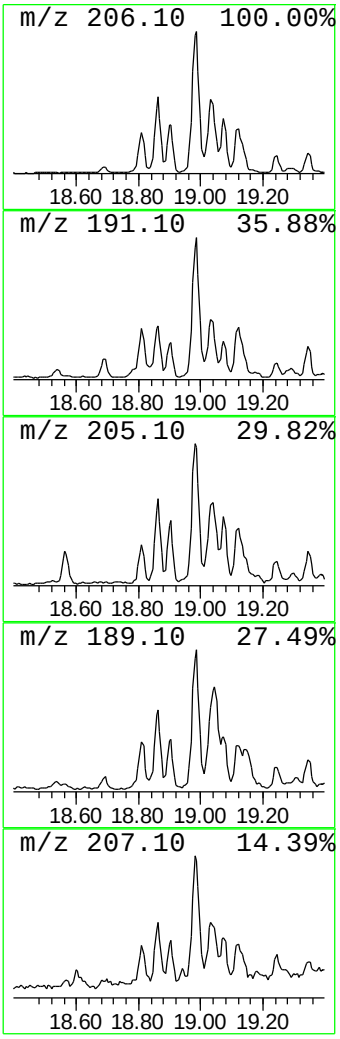
Peak Number 11 di-p-Tolylacetylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	2.61 ng/ul	457690	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91





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Misc :
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Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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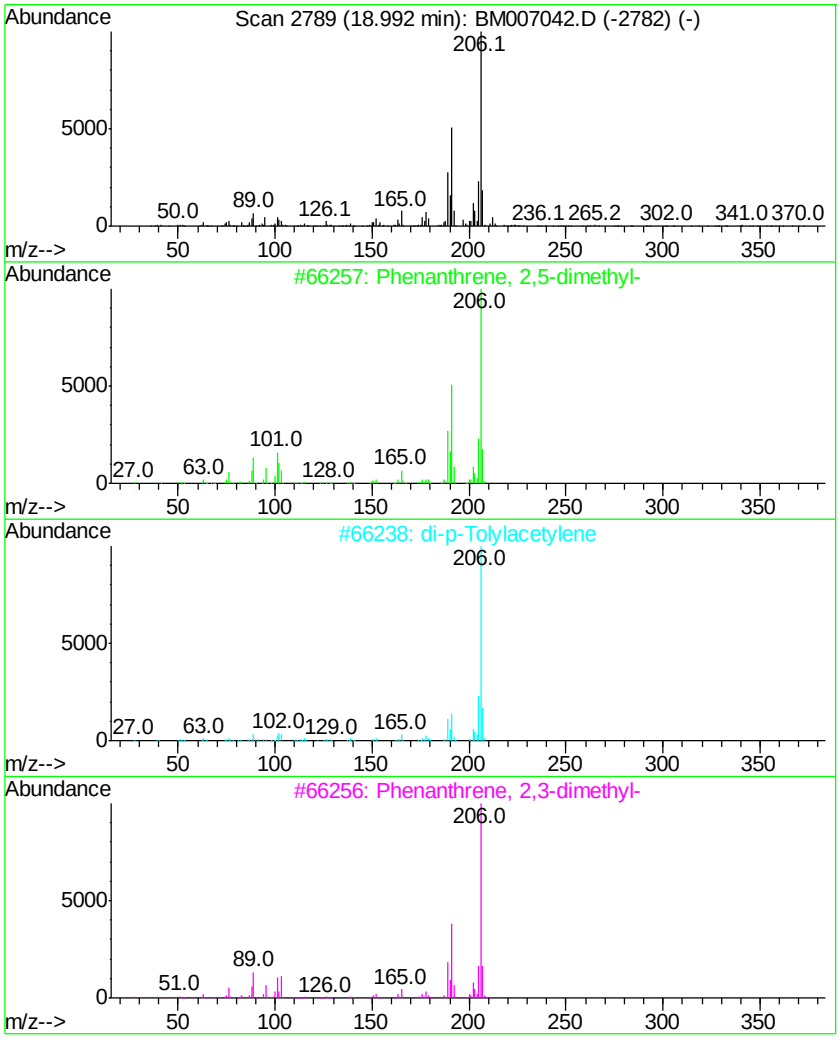
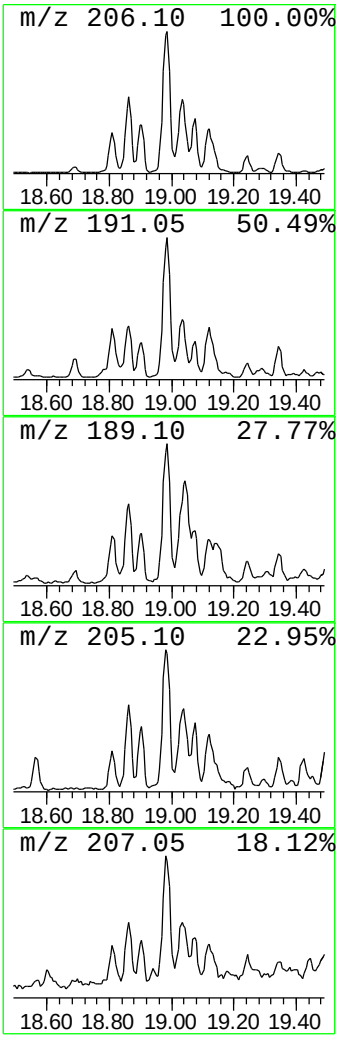
Peak Number 12 unknown-01 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.99	7.95 ng/ul	1392530	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

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Quant Title : SVOA CALIBRATION

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

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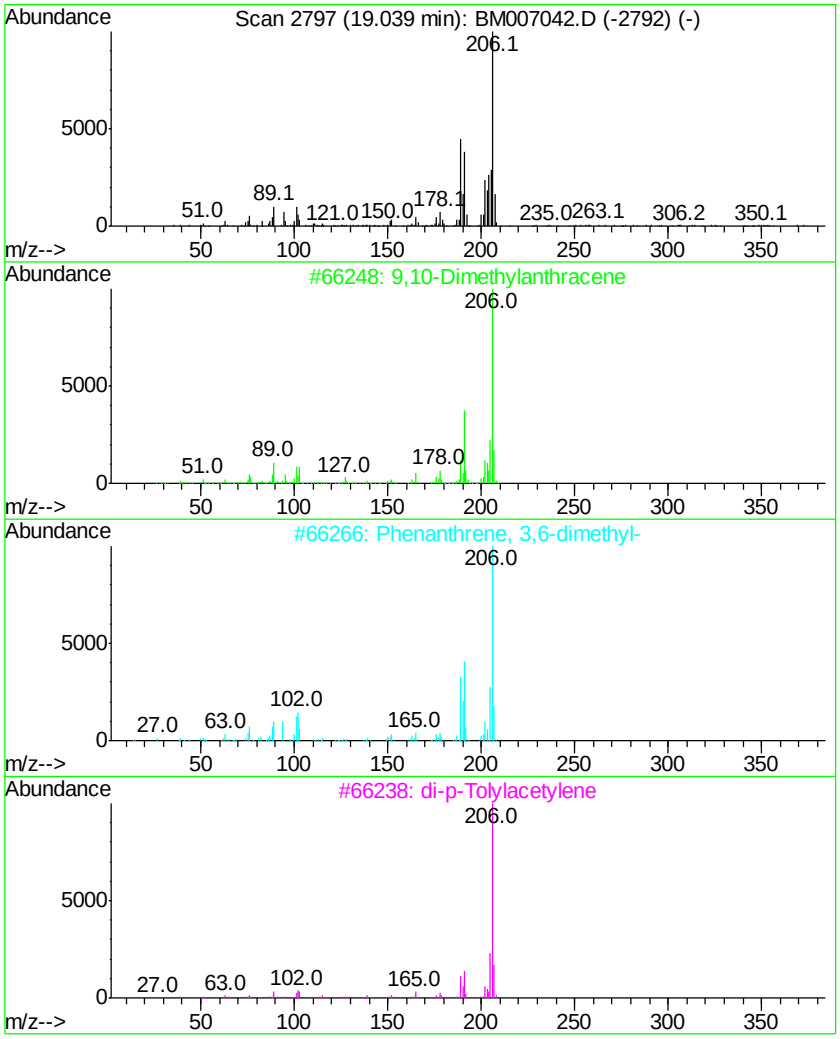
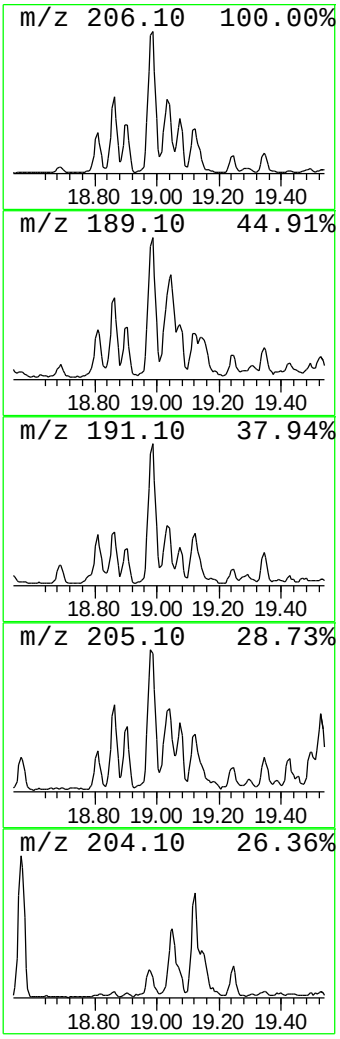
Peak Number 13 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.04	3.95 ng/ul	692117	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	86
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	83
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	78
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	76





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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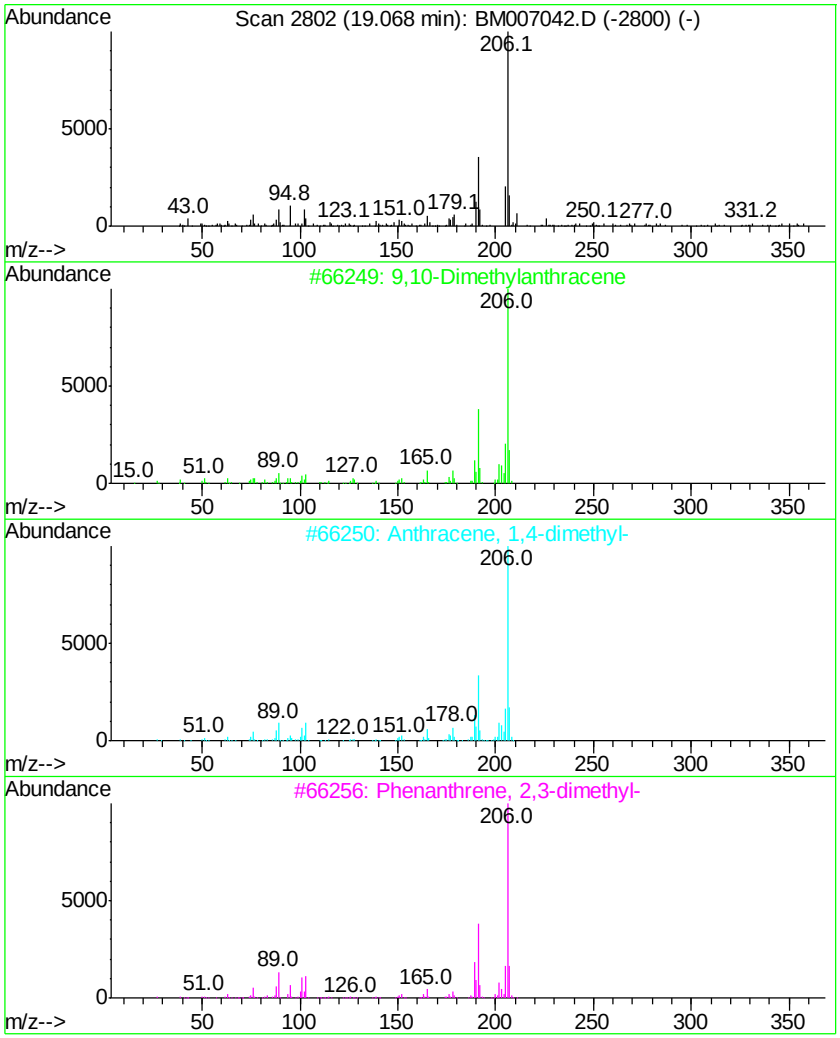
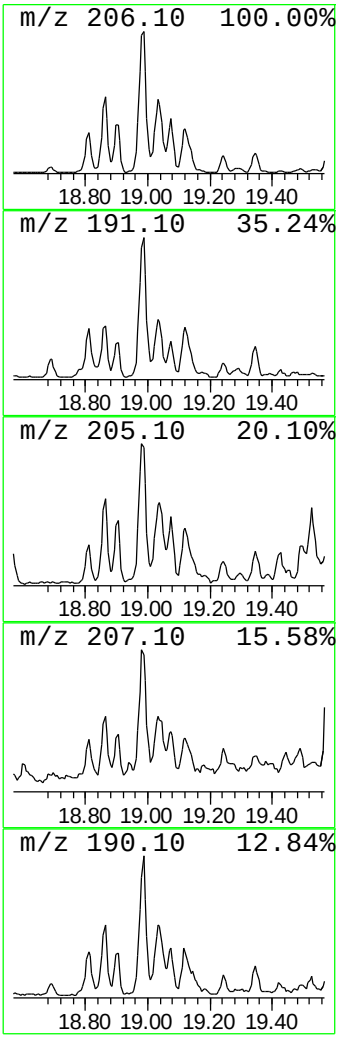
Peak Number 14 Anthracene, 1,4-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.07	2.13 ng/ul	372593	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	83
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	80
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	74





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Quant Title : SVOA CALIBRATION

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

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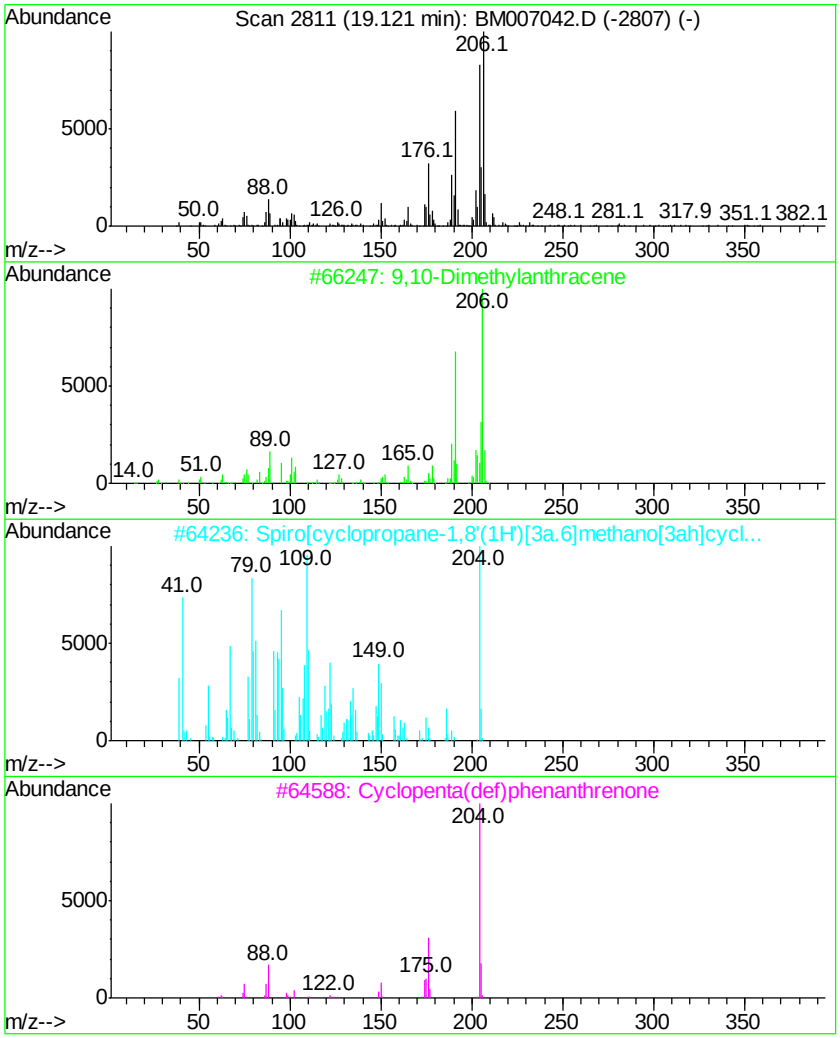
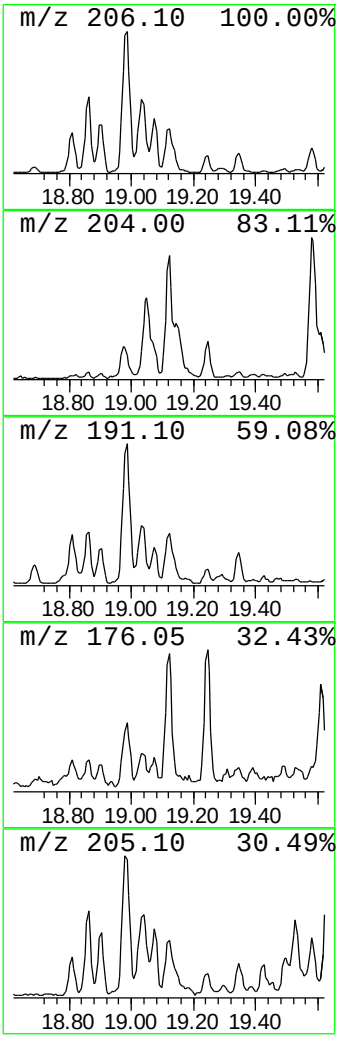
Peak Number 15 Spiro[cyclopropane-1,8'(1H'... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.12	4.62 ng/ul	809818	Phenanthrene-d10	17.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
2	Spiro[cyclopropane-1,8'(1H')[3a....	204	C14H20O	452049-62-6	90
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	78
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	78
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	60





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Quant Title : SVOA CALIBRATION

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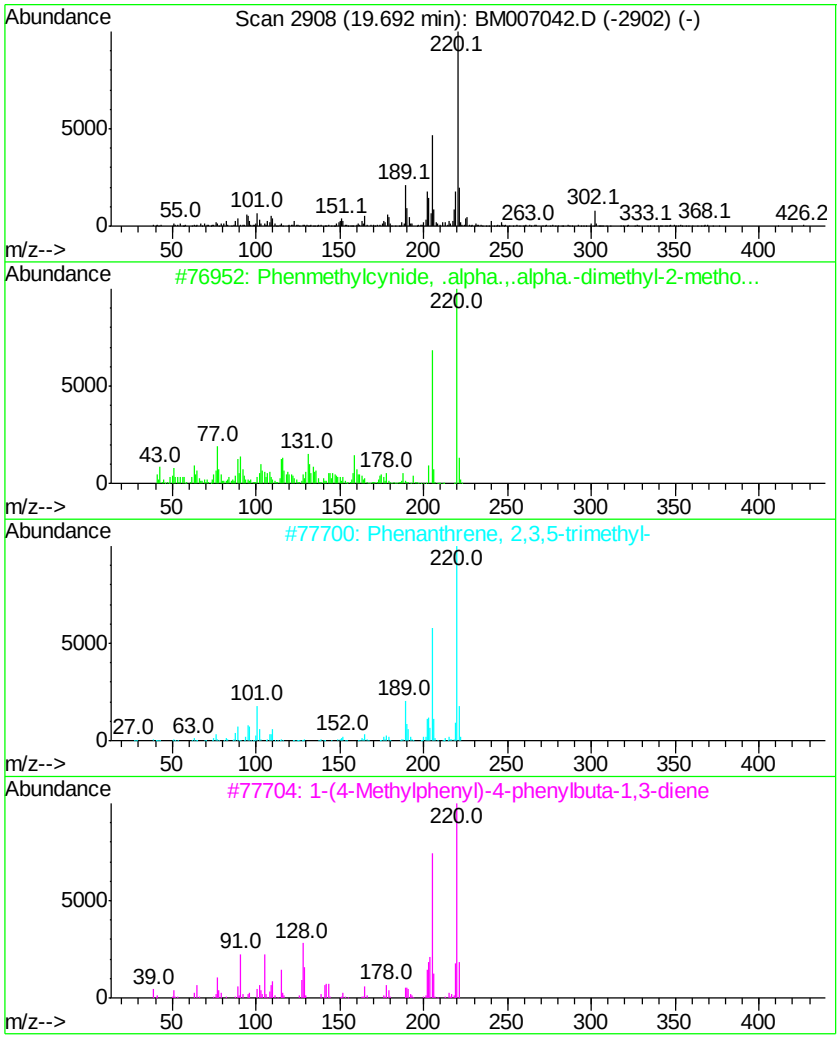
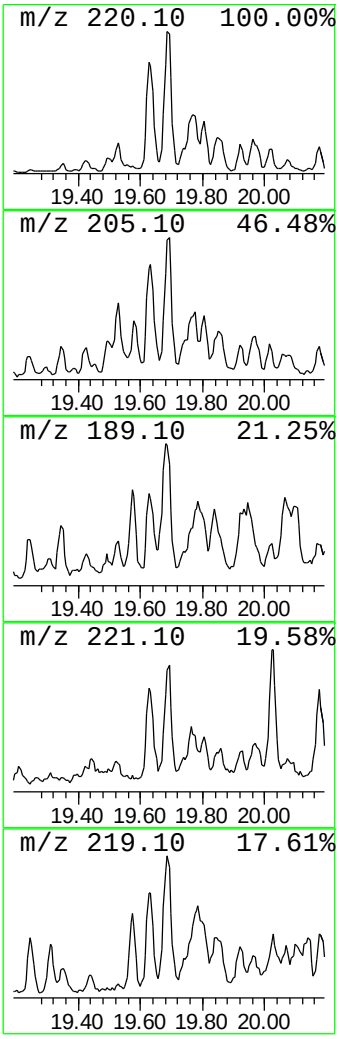
Peak Number 16 Phenmethylcynide, .alpha.,.... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.69	2.63 ng/ul	868694	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	58
2	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	49
3	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	47
4	1,4-Dimethoxy-6,7,8,9-tetrahydro...	220	C13H16O3	079381-09-2	43
5	10-Methylanthracene-9-carboxalde...	220	C16H12O	007072-00-6	43





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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

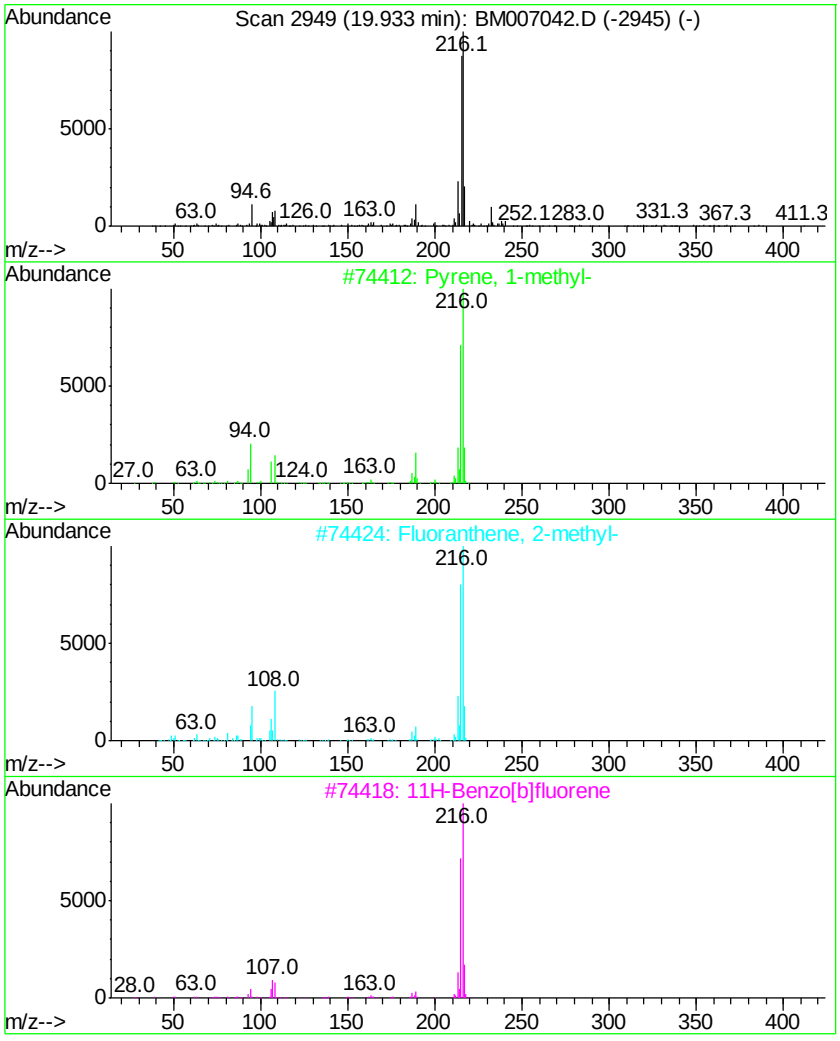
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

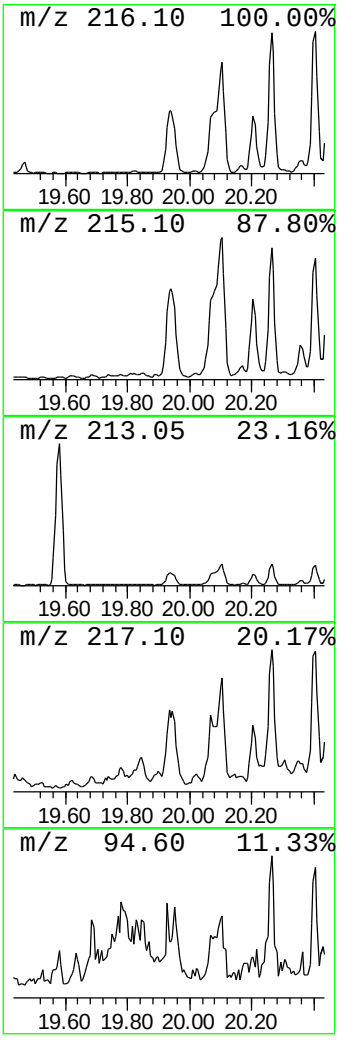
****

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.93	3.75 ng/ul	1239750	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	76





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081216\
Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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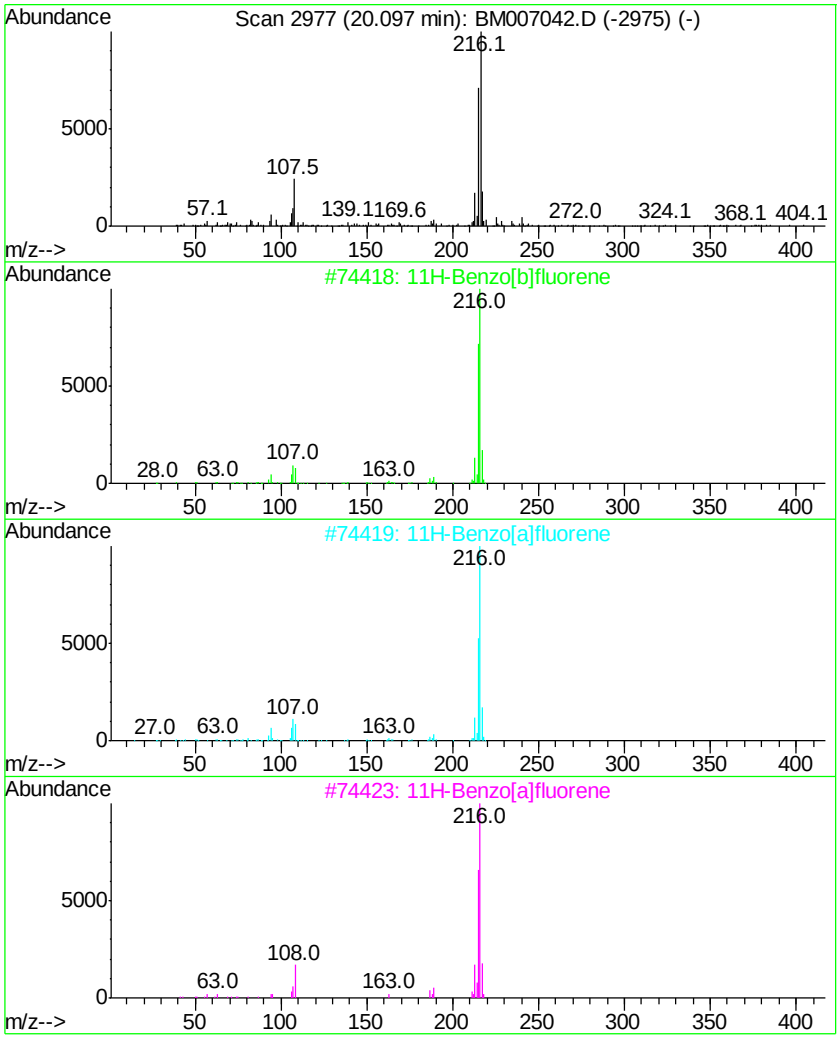
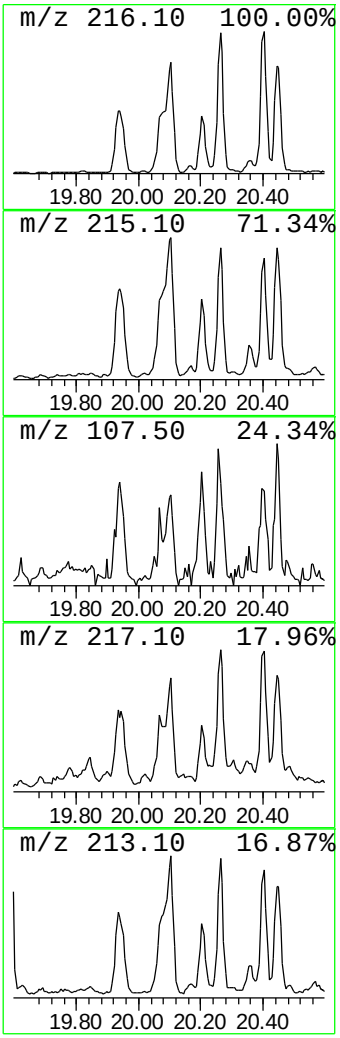
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	2.31 ng/ul	764960	Chrysene-d12	21.37

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	86
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	72
4	1,3-Dihydro-5,6-dimethyl-1-(2-pr...	216	C12H12N2S	080276-22-8	72
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72





Library Search Compound Report

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Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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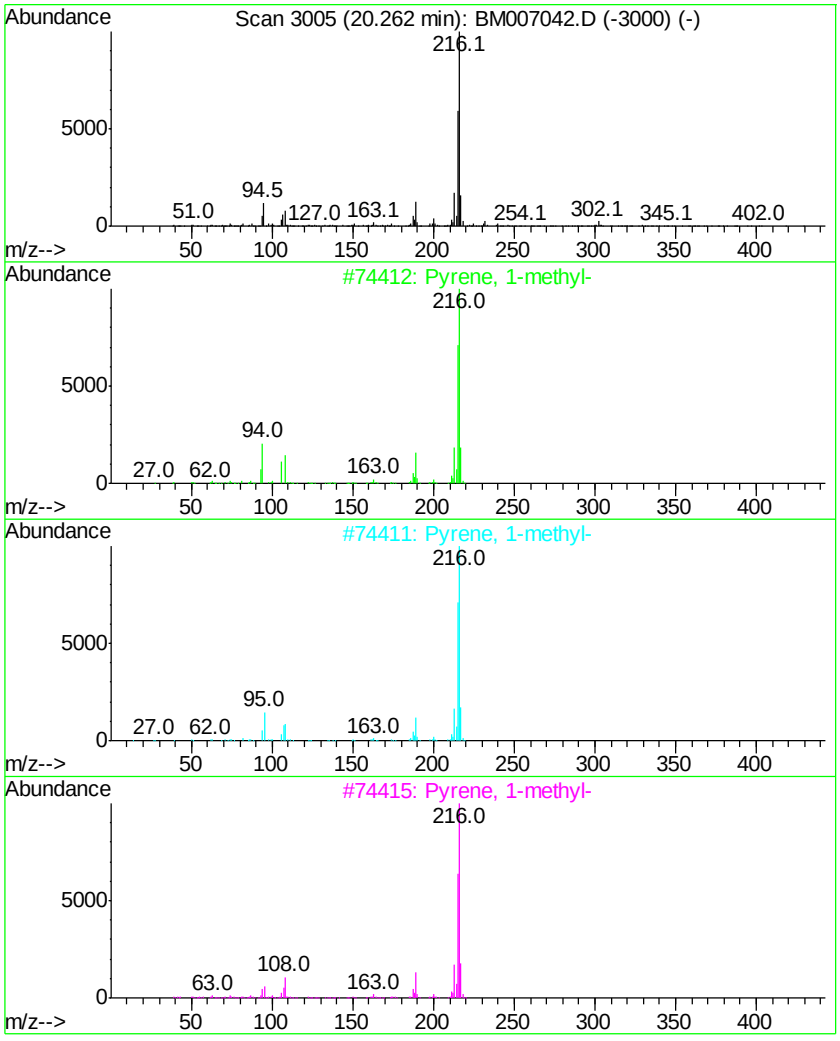
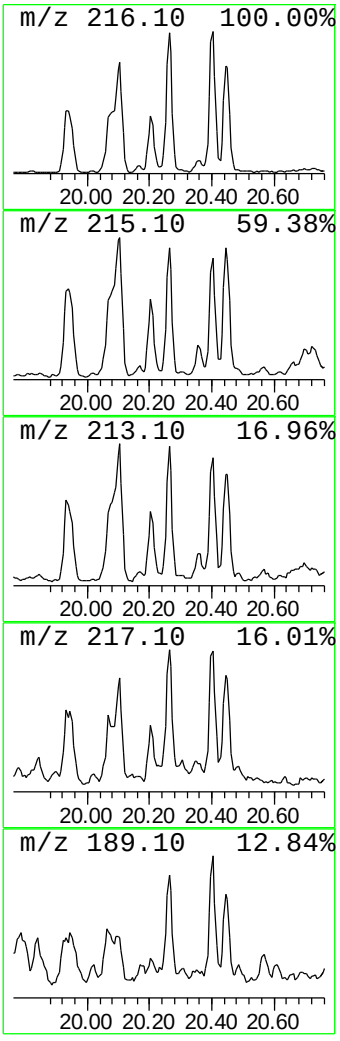
Peak Number 19 Pyrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.26	2.85 ng/ul	942757	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93





Library Search Compound Report

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Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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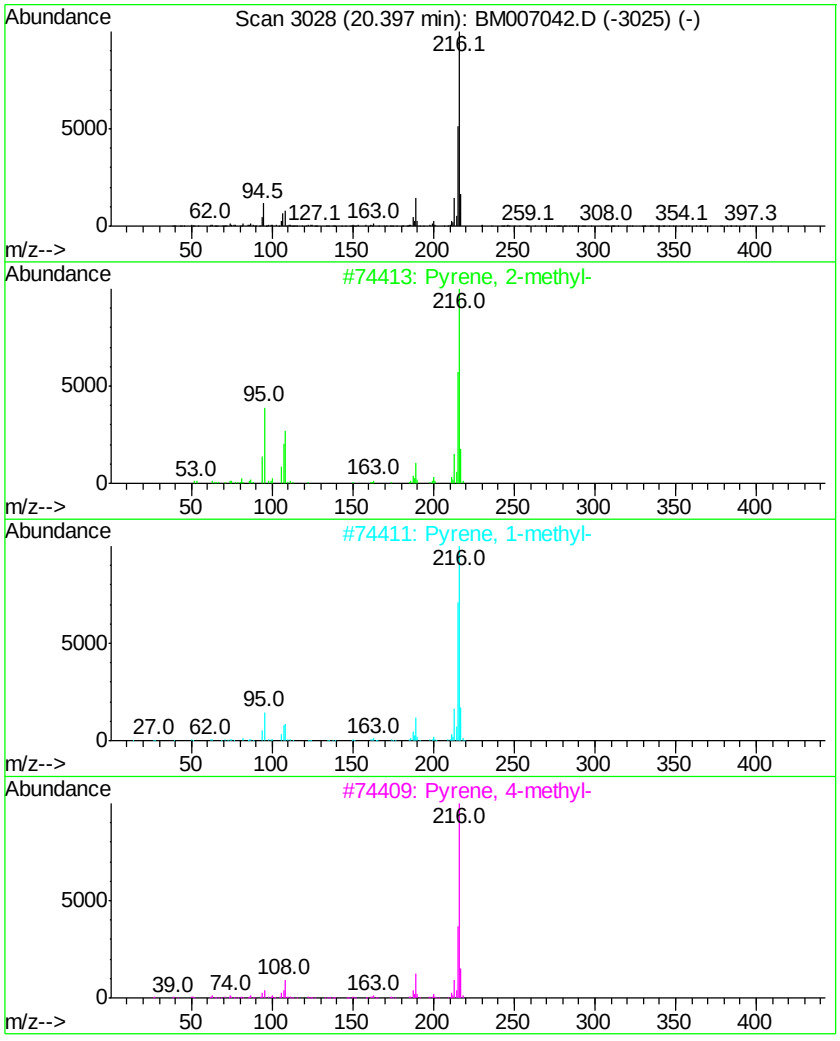
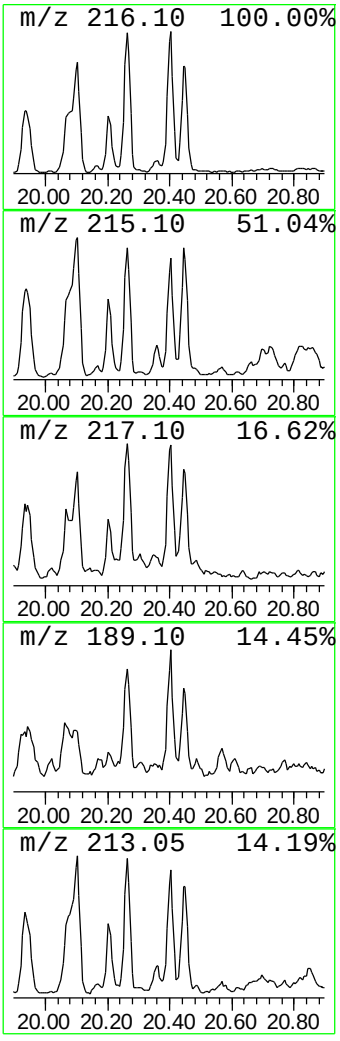
Peak Number 20 Pyrene, 4-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.40	2.07 ng/ul	683115	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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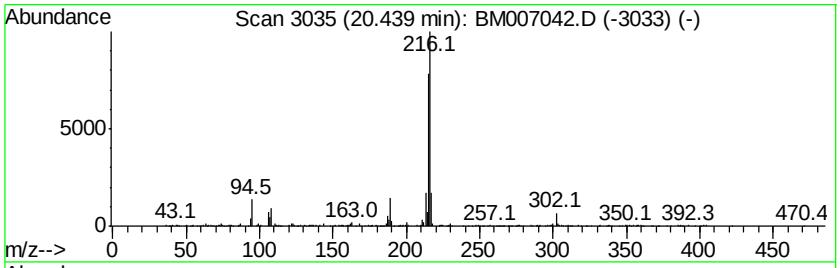
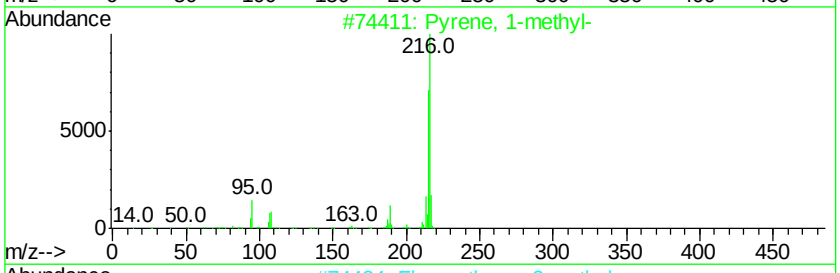
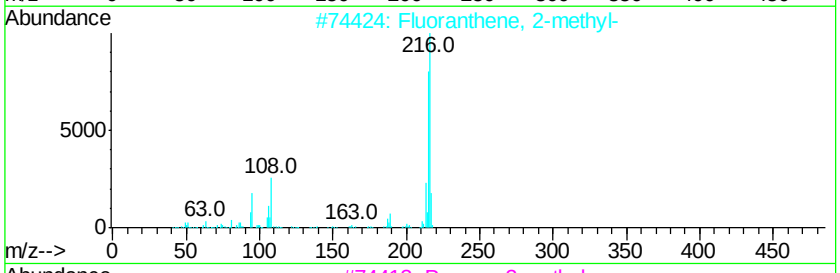
Peak Number 21 11H-Benzo[a]fluorene Concentration Rank 24

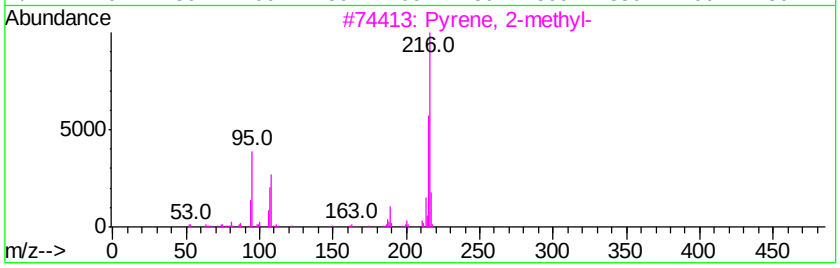
R.T.	EstConc	Area	Relative to ISTD	R.T.
20.44	2.01 ng/ul	663188	Chrysene-d12	21.37

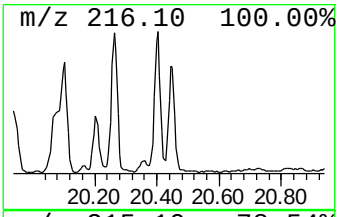
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93

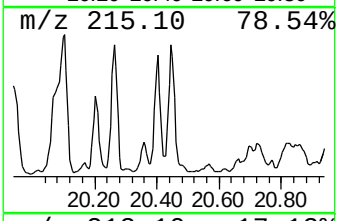


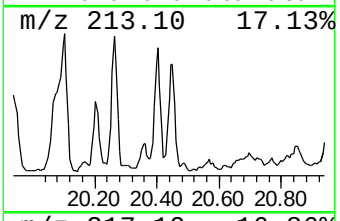


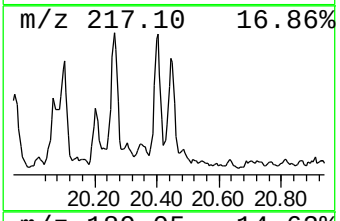


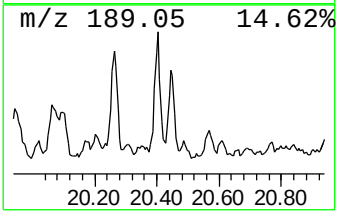












Data Path : Z:\HPCHEM1\BNA M\DATA\BM081216\
Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

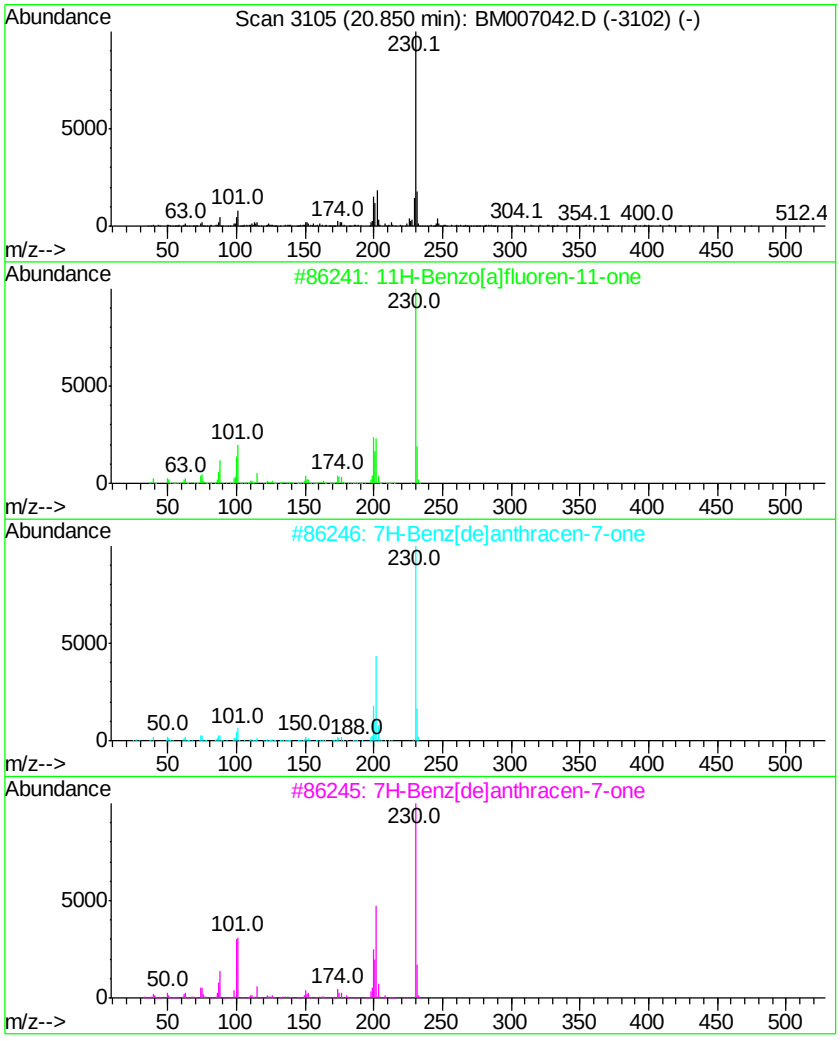
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

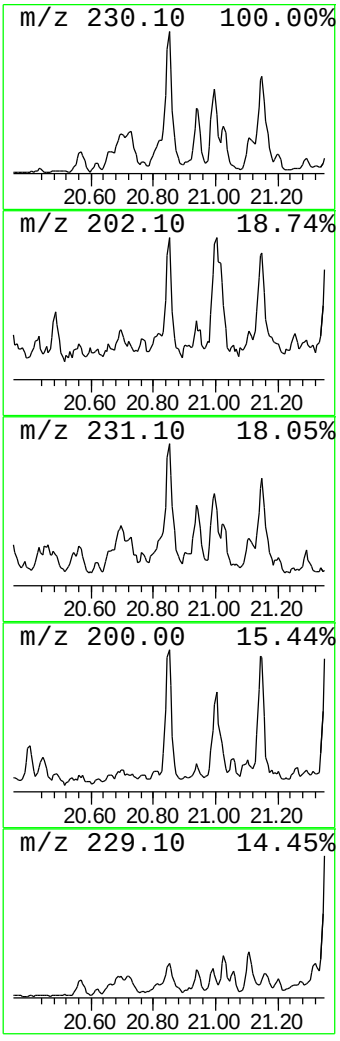
****

Peak Number 22 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.85	2.19 ng/ul	724402	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64





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Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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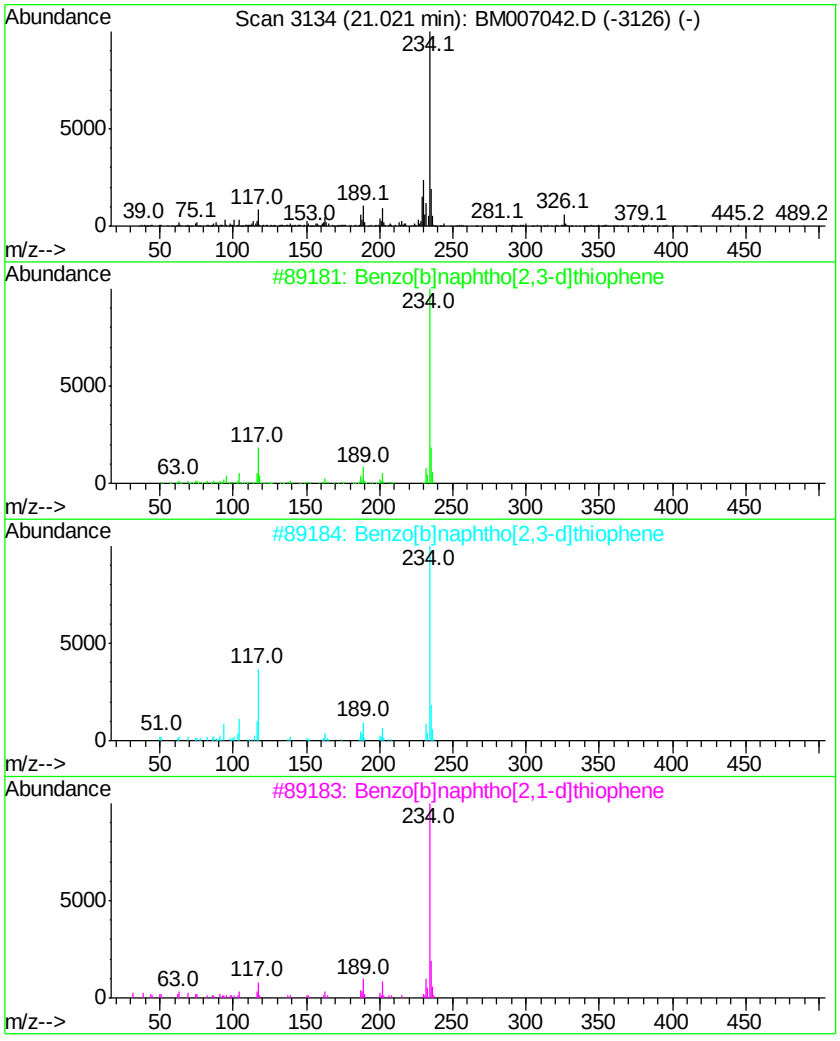
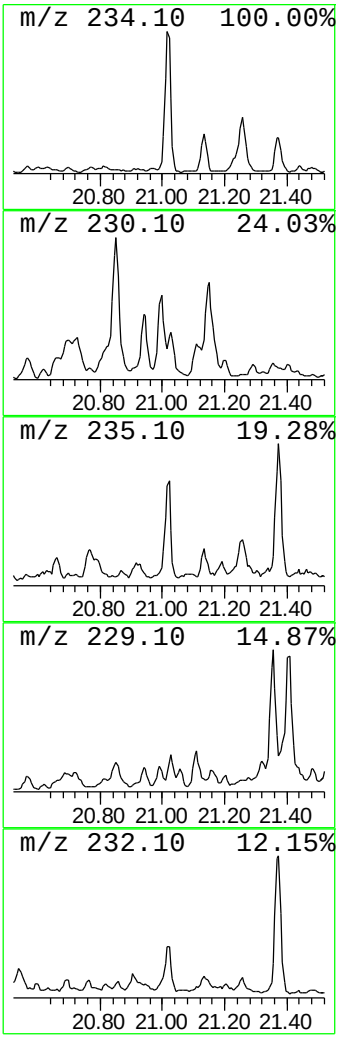
Peak Number 23 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.02	3.27 ng/ul	1082500	Chrysene-d12	21.37

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[2,3-d]thiophene	234	C16H10S	000243-46-9	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	90
5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	89





Library Search Compound Report

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Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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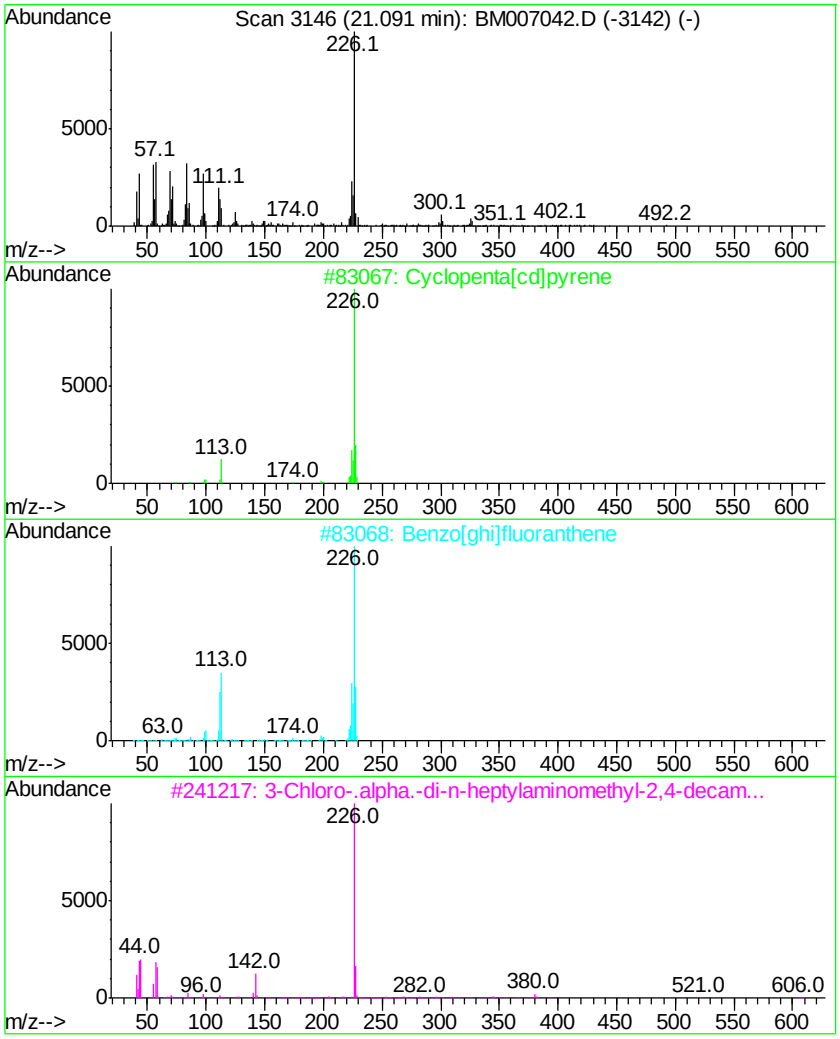
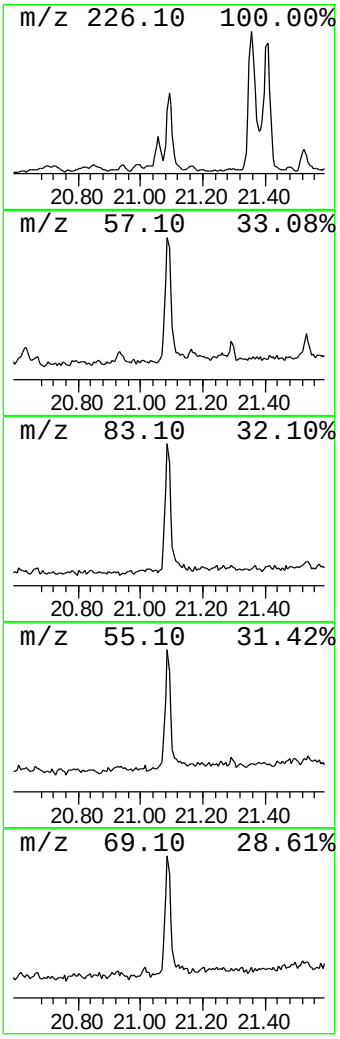
Peak Number 24 unknown-02 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.09	2.62 ng/ul	865251	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	43
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	43
3	3-Chloro-.alpha.-di-n-heptylamin...	606	C39H59ClN2O	1000251-74-9	35
4	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	32
5	Isonipecotinoylisonipecotic acid...	422	C22H28F2N2O4	1000361-42-7	28





Library Search Compound Report

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Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
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Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.M
Quant Title : SVOA CALIBRATION

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

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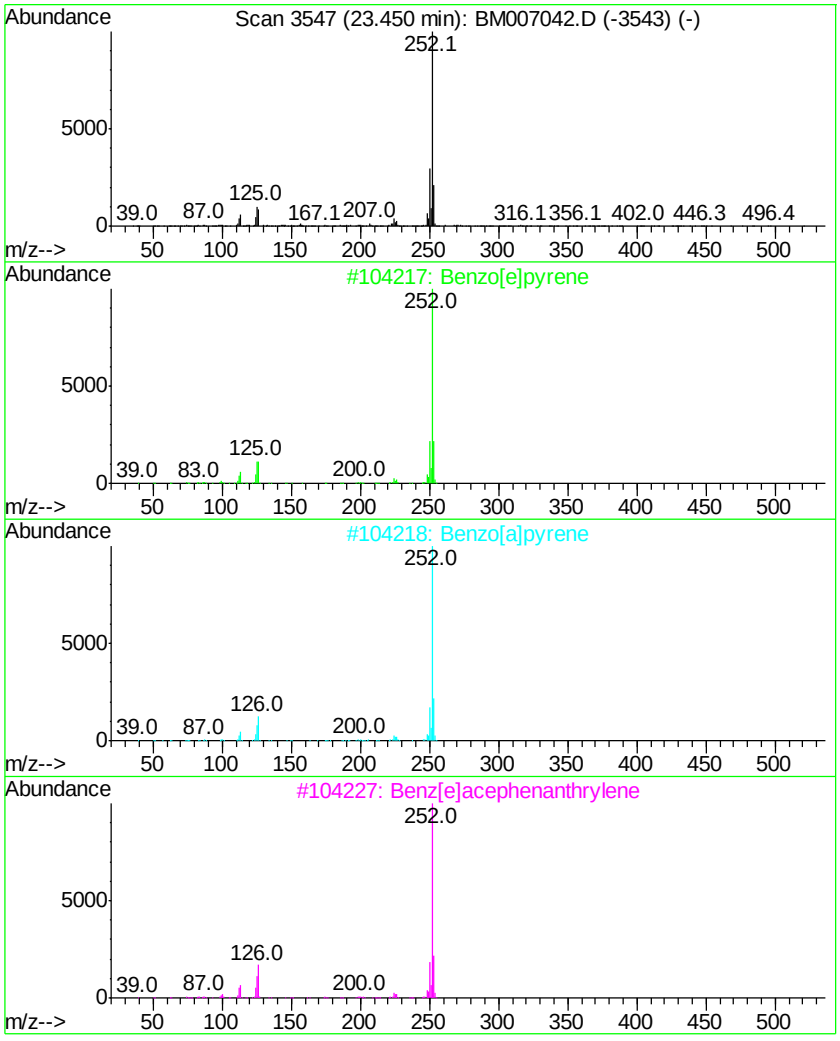
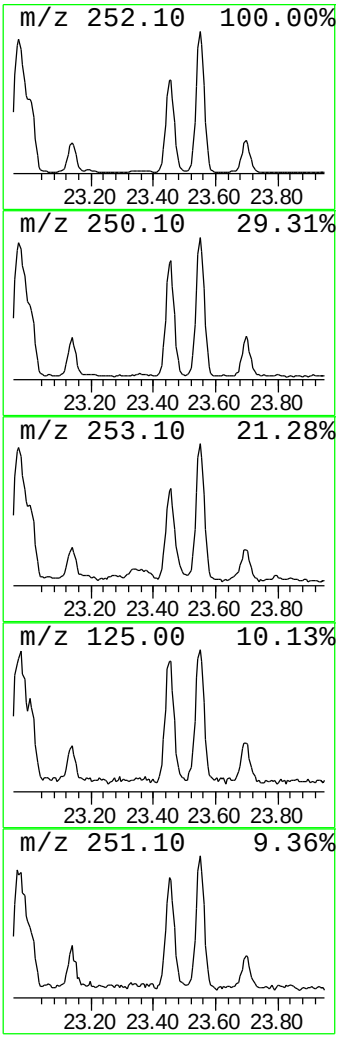
Peak Number 25 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.45	5.54 ng/ul	1089710	Perylene-d12	23.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Tentatively Identified Compound (LSC) summary

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Data File : BM007042.D
Acq On : 12 Aug 2016 14:11
Operator : UM/SJ
Sample : H4387-19
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : PR002-SS001-0002-01

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081116.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
(DEL) Alkane: Str...	16.17	2.4	ng/ul	420779	4	17.19	3503240	20.0
1-Methyldibenzoth...	17.77	2.0	ng/ul	350749	4	17.19	3503240	20.0
Phenanthrene, 2-m...	18.06	5.9	ng/ul	1036820	4	17.19	3503240	20.0
Anthracene, 1-met...	18.11	7.5	ng/ul	1321310	4	17.19	3503240	20.0
Phenanthrene, 1-m...	18.25	7.9	ng/ul	1380130	4	17.19	3503240	20.0
Phenanthrene, 4-m...	18.29	4.2	ng/ul	736740	4	17.19	3503240	20.0
Naphthalene, 2-ph...	18.56	2.2	ng/ul	387992	4	17.19	3503240	20.0
9,10-Anthracenedione	18.60	3.9	ng/ul	677709	4	17.19	3503240	20.0
Phenanthrene, 2,5...	18.81	2.0	ng/ul	355210	4	17.19	3503240	20.0
Phenanthrene, 3,6...	18.86	3.1	ng/ul	552112	4	17.19	3503240	20.0
di-p-Tolylacetylene	18.90	2.6	ng/ul	457690	4	17.19	3503240	20.0
unknown-01	18.99	8.0	ng/ul	1392530	4	17.19	3503240	20.0
9,10-Dimethylanth...	19.04	4.0	ng/ul	692117	4	17.19	3503240	20.0
Anthracene, 1,4-d...	19.07	2.1	ng/ul	372593	4	17.19	3503240	20.0
Spiro[cyclopropan...	19.12	4.6	ng/ul	809818	4	17.19	3503240	20.0
Phenmethylcynide,...	19.69	2.6	ng/ul	868694	5	21.37	6614900	20.0
Pyrene, 1-methyl-	19.93	3.8	ng/ul	1239750	5	21.37	6614900	20.0
11H-Benzo[b]fluorene	20.10	2.3	ng/ul	764960	5	21.37	6614900	20.0
Pyrene, 2-methyl-	20.26	2.9	ng/ul	942757	5	21.37	6614900	20.0
Pyrene, 4-methyl-	20.40	2.1	ng/ul	683115	5	21.37	6614900	20.0
11H-Benzo[a]fluorene	20.44	2.0	ng/ul	663188	5	21.37	6614900	20.0
11H-Benzo[a]fluor...	20.85	2.2	ng/ul	724402	5	21.37	6614900	20.0
Benzo[b]naphtho[2...	21.02	3.3	ng/ul	1082500	5	21.37	6614900	20.0
unknown-02	21.09	2.6	ng/ul	865251	5	21.37	6614900	20.0
Benzo[e]pyrene	23.45	5.5	ng/ul	1089710	6	23.65	3932570	20.0