LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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	6.975	738	746	765	rVB	1560772	2709455	23.39%	1.267%
2	7.146	768	775	784	rBV	1139916	1779556	15.36%	0.832%
3	7.346	802	809	819	rBV	1621120	2597654	22.43%	1.215%
4	7.810	881	888	895	rBV	1486096	2380806	20.55%	1.114%
5	8.510	998	1007	1016	rBV	1747062	2922500	25.23%	1.367%
6	8.963	1077	1084	1094	rVB	1485213	2447313	21.13%	1.145%
7	9.081	1097	1104	1110	rBV	172003	307647	2.66%	0.144%
8	9.681	1198	1206	1219	rBV	1285982	2156000	18.61%	1.008%
9	10.216	1287	1297	1304	rBV	1960846	3332054	28.77%	1.559%
10	10.598	1352	1362	1368	rBV	1886154	3268145	28.22%	1.529%
11	10.728	1376	1384	1393	rBV	1282841	2280972	19.69%	1.067%
12	13.851	1909	1915	1919	rVV	3317056	4720448	40.75%	2.208%
13	13.898	1919	1923	1932	rVB	4380607	6054039	52.27%	2.832%
14	14.133	1952	1963	1977	rBV2	3678475	6607119	57.04%	3.091%
15	14.439	2005	2015	2022	rBV2	2653238	4253205	36.72%	1.989%
16	14.628	2041	2047	2059	rBV	1395549	2244343	19.38%	1.050%
17	15.051	2112	2119	2124	rBV6	140614	360754	3.11%	0.169%
18	15.298	2157	2161	2169	rVB2	263229	438036	3.78%	0.205%
19	15.433	2175	2184	2190	rBV	4742607	6952686	60.03%	3.252%
20	15.551	2199	2204	2210	rVB	1193176	1640506	14.16%	0.767%
21	15.704	2221	2230	2235	rVB4	117214	302737	2.61%	0.142%
22	16.157	2302	2307	2318	rBV2	413591	726419	6.27%	0.340%
23	16.492	2357	2364	2368	rBV5	142137	335643	2.90%	0.157%
24	17.004	2446	2451	2459	rVB	259380	434715	3.75%	0.203%
25	17.180	2476	2481	2485	rVV	3261481	4876958	42.11%	2.281%
26	17.227	2485	2489	2493	rVV	2183423	3069541	26.50%	1.436%
27	17.280	2493	2498	2503	rVV2	4986837	7421451	64.07%	3.471%
28	17.316	2503	2504	2508	rVB	595427	476759	4.12%	0.223%
29	17.368	2508	2513	2519	rBV3	171231	345565	2.98%	0.162%
30	17.568	2540	2547	2556	rBV3	804325	1357109	11.72%	0.635%
31	17.763	2576	2580	2585	rVB	374891	508812	4.39%	0.238%
32	17.904	2600	2604	2609	rVB	193974	342522	2.96%	0.160%
33	18.057	2625	2630	2632	rVV	1119536	1578315	13.63%	0.738%
34	18.080	2632	2634	2636	rVV	1120403	1431833	12.36%	0.670%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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	18.104	2636	2638	2644	rVB	1449430	1742181	15.04%	0.815%
36	18.186	2647	2652	2657	rBV	326220	486001	4.20%	0.227%
37	18.245	2657	2662	2667	rBV2	1282403	2327948	20.10%	1.089%
38	18.286	2667	2669	2677	rVB	890801	1110988	9.59%	0.520%
39	18.374	2680	2684	2687	rBV2	258927	382451	3.30%	0.179%
40	18.451	2693	2697	2702	rVB2	242793	379062	3.27%	0.177%
41	18.557	2711	2715	2719	rBV2	528316	719442	6.21%	0.337%
42	18.598	2719	2722	2733	rVB2	527899	1066843	9.21%	0.499%
43	18.774	2749	2752	2754	rBV2	230082	304864	2.63%	0.143%
44	18.804	2754	2757	2761	rVV	468171	633705	5.47%	0.296%
45	18.857	2762	2766	2769	rVV	703014	884193	7.63%	0.414%
46	18.892	2769	2772	2776	rVB2	557179	742106	6.41%	0.347%
47	18.974	2781	2786	2791	rBV	1532013	2381490	20.56%	1.114%
48	19.033	2791	2796	2800	rVV3	680179	1369670	11.83%	0.641%
49	19.068	2800	2802	2806	rVB	534326	555531	4.80%	0.260%
50	19.115	2806	2810	2817	rBV3	778866	1503778	12.98%	0.703%
51	19.239	2823	2831	2837	rBV	4783523	6654476	57.45%	3.113%
52	19.304	2838	2842	2845	rBV	366698	522967	4.52%	0.245%
53	19.392	2854	2857	2861	rVB	465841	563159	4.86%	0.263%
54	19.439	2861	2865	2868	rBV2	240615	297842	2.57%	0.139%
55	19.486	2869	2873	2875	rBV2	317182	406230	3.51%	0.190%
56	19.574	2883	2888	2891	rBV2	6308235	9789963	84.52%	4.579%
57	19.604	2891	2893	2901	rVB	5665893	7467896	64.47%	3.493%
58	19.680	2901	2906	2911	rVB2	891205	1371361	11.84%	0.641%
59	19.839	2930	2933	2939	rVB2	482981	781883	6.75%	0.366%
60	19.927	2943	2948	2959	rBV6	845338	2369281	20.46%	1.108%
61	20.015	2959	2963	2966	rBV4	261463	384095	3.32%	0.180%
62	20.062	2966	2971	2973	rVV2	684855	1110456	9.59%	0.519%
63	20.098	2974	2977	2981	rVB	1143336	1513826	13.07%	0.708%
64	20.198	2991	2994	2998	rVB	592090	672541	5.81%	0.315%
65	20.257	2999	3004	3009	rVV2	1309573	1817157	15.69%	0.850%
66	20.398	3024	3028	3032	rBV	1081041	1382502	11.94%	0.647%
67	20.445	3032	3036	3039	rVV	958676	1246680	10.76%	0.583%
68	20.480	3039	3042	3049	rVB3	291286	422911	3.65%	0.198%
69	20.562	3052	3056	3060	rVB2	269796	404757	3.49%	0.189%
70	20.657	3068	3072	3074	rBV3	199375	299474	2.59%	0.140%
71	20.845	3100	3104	3111	rVB	909295	1441668	12.45%	0.674%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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	20.933	3116	3119	3124	rVB	393037	500739	4.32%	0.234%
73	21.015	3125	3133	3136	rVV4	892404	1988903	17.17%	0.930%
74	21.051	3136	3139	3141	rVV	628625	729077	6.29%	0.341%
75	21.080	3141	3144	3150	rVV3	1579627	2427809	20.96%	1.136%
76	21.139	3151	3154	3161	rVB2	621287	1085600	9.37%	0.508%
77	21.286	3176	3179	3182	rVB	384836	382828	3.31%	0.179%
78	21.362	3185	3192	3196	rBV2	5859142	11582742	100.00%	5.418%
79	21.404	3196	3199	3208	rVB	3274804	4510716	38.94%	2.110%
80	21.480	3209	3212	3216	rVB2	370264	466036	4.02%	0.218%
81	21.521	3216	3219	3224	rBV3	458302	818713	7.07%	0.383%
82	21.568	3224	3227	3230	rBV	430087	608978	5.26%	0.285%
83	21.686	3243	3247	3251	rBV4	249838	504929	4.36%	0.236%
84	21.727	3252	3254	3258	rVB2	298368	335887	2.90%	0.157%
85	21.868	3275	3278	3280	rBV	258170	291960	2.52%	0.137%
86	21.921	3281	3287	3292	rVV	1200551	2006894	17.33%	0.939%
87	21.980	3292	3297	3303	rVV2	2279972	3221399	27.81%	1.507%
88	22.121	3317	3321	3324	rBV	656924	904167	7.81%	0.423%
89	22.956	3457	3463	3468	rBV3	3094880	6733297	58.13%	3.150%
90	22.998	3468	3470	3476	rVB	2182881	3059615	26.42%	1.431%
91	23.133	3489	3493	3499	rVB	572472	957041	8.26%	0.448%
92	23.450	3541	3547	3550	rBV	1467969	2733819	23.60%	1.279%
93	23.503	3550	3556	3560	rVV2	4019886	8143962	70.31%	3.809%
94	23.545	3560	3563	3570	rVB	2486369	4205341	36.31%	1.967%
95	23.645	3573	3580	3585	rBV	2917027	5922861	51.14%	2.770%
96	24.197	3669	3674	3682	rVB2	1032224	2031548	17.54%	0.950%
97	24.286	3684	3689	3701	rVB5	436349	1269096	10.96%	0.594%
98	25.939	3964	3970	3978	rVB	943818	2387366	20.61%	1.117%
99	26.644	4083	4090	4101	rVB	797816	2330243	20.12%	1.090%
100	26.768	4105	4111	4121	rVB8	510606	1468991	12.68%	0.687%

Sum of corrected areas: 213783552

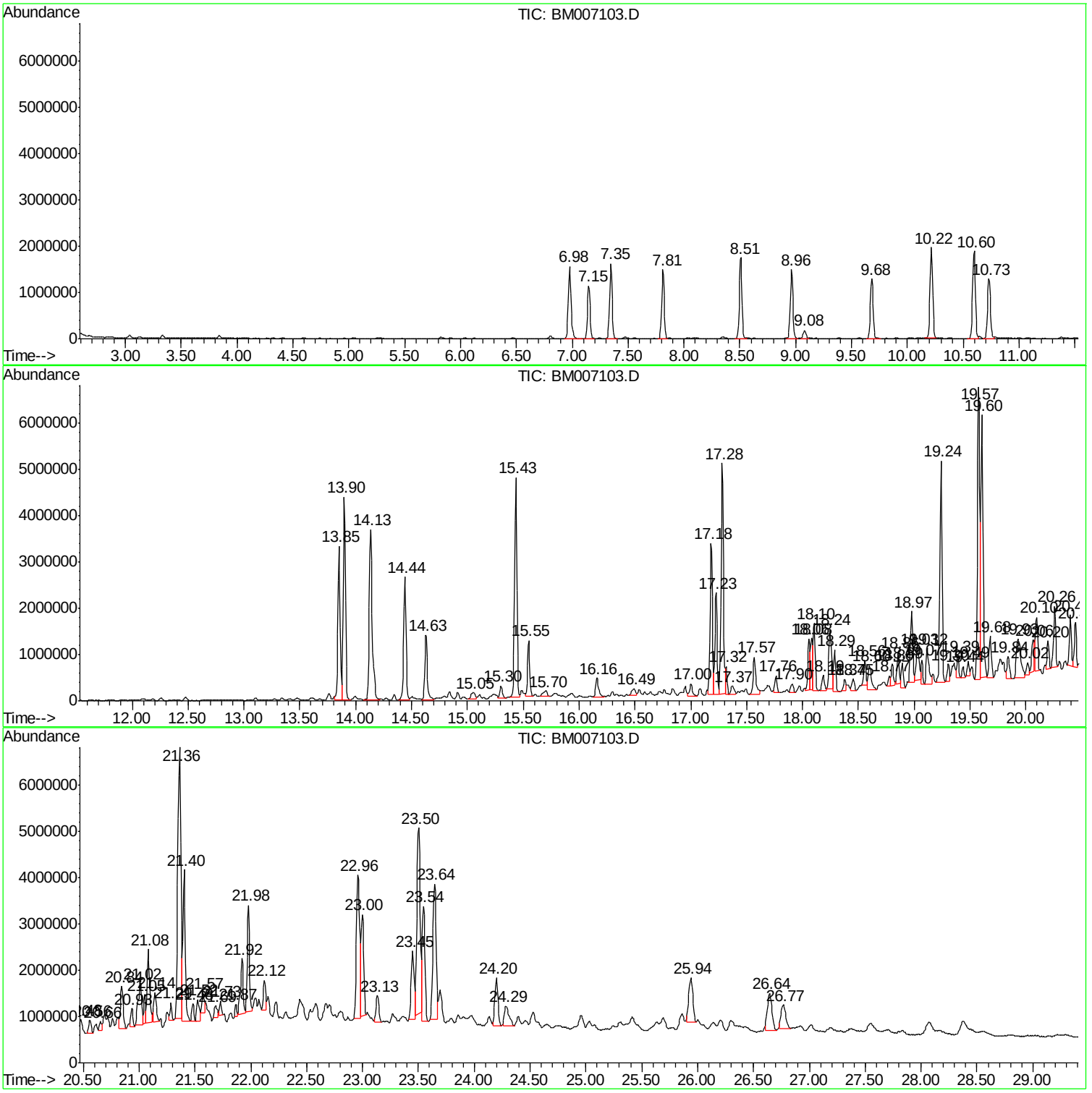
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
P003-SS003-0002-01

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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

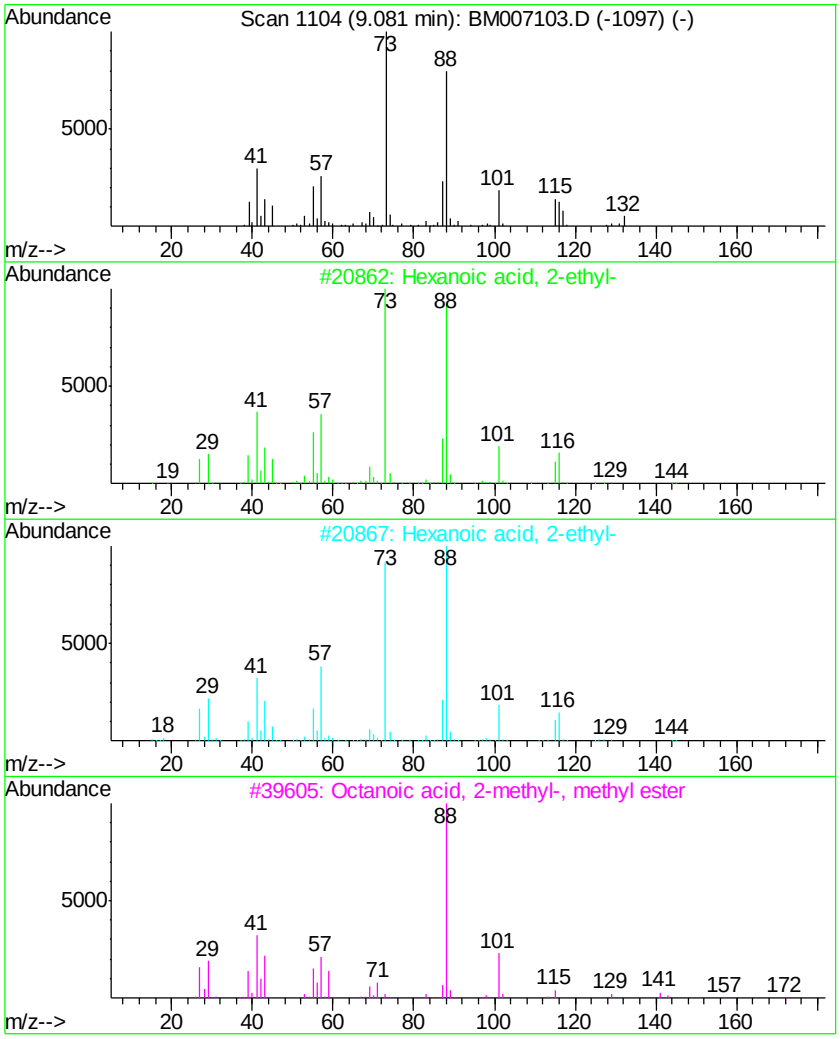
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

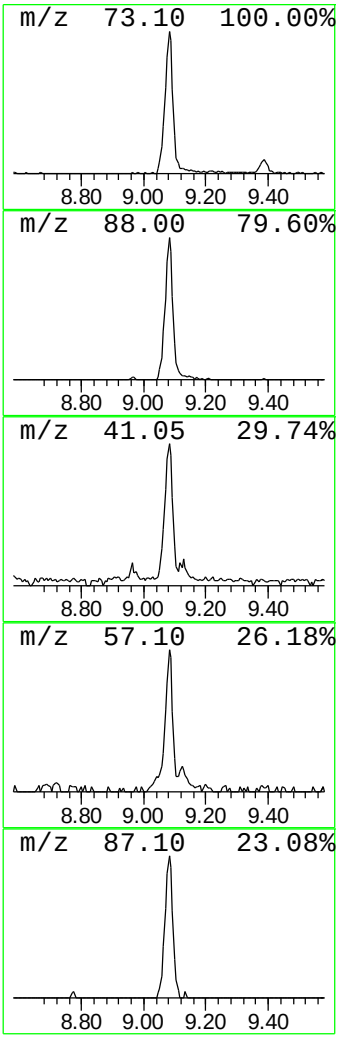
****

Peak Number 1 Hexanoic acid, 2-ethyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.08	2.58 ng/ul	307647	1,4-Dichlorobenzene-d4	7.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	59
3	Octanoic acid, 2-methyl-, methyl...	172	C10H20O2	002177-86-8	47
4	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	47
5	Heptanoic acid, 2,6-dimethyl-, m...	172	C10H20O2	033315-72-9	43





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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

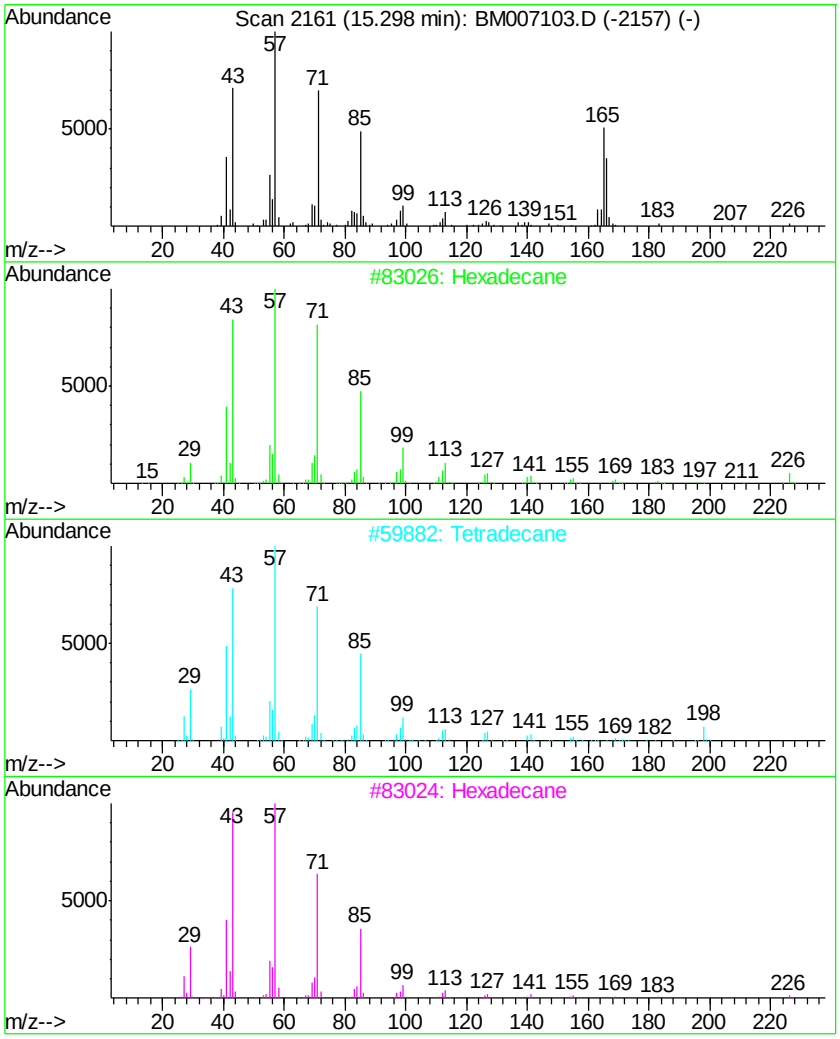
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

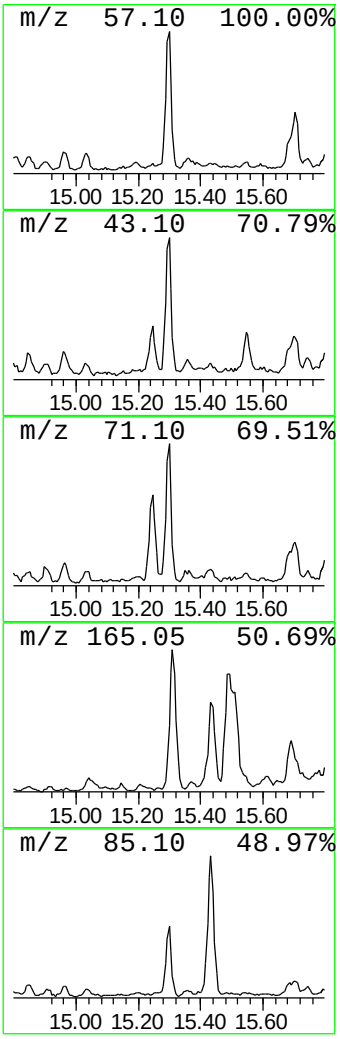
****

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	2.06 ng/ul	438036	Acenaphthene-d10	14.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	64
2	Tetradecane	198	C14H30	000629-59-4	53
3	Hexadecane	226	C16H34	000544-76-3	53
4	Hexadecane	226	C16H34	000544-76-3	49
5	Octadecane	254	C18H38	000593-45-3	49





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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

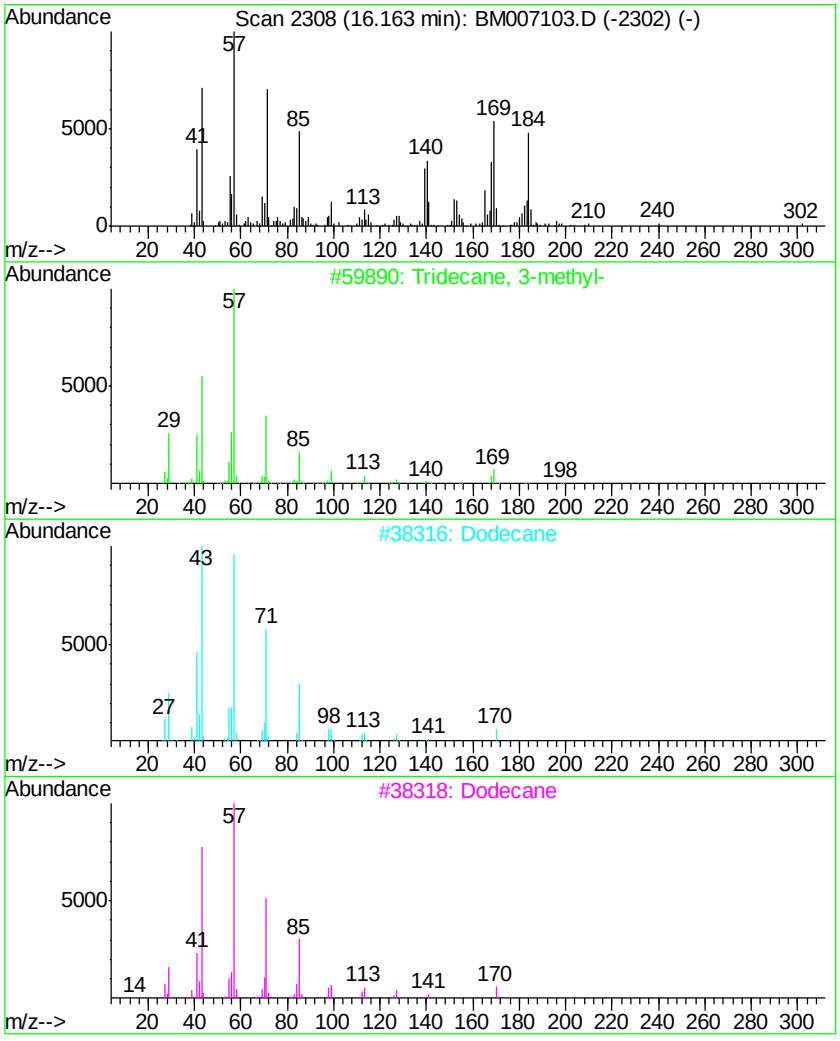
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

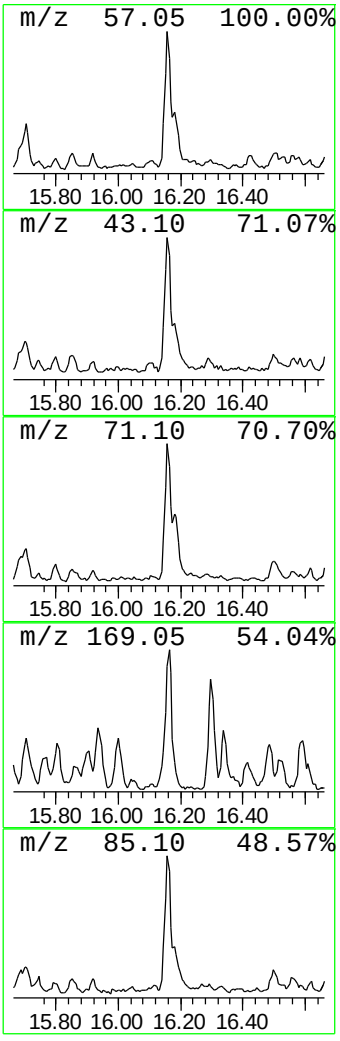
****

Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.16	2.98 ng/ul	726419	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 3-methyl-	198	C14H30	006418-41-3	53
2	Dodecane	170	C12H26	000112-40-3	42
3	Dodecane	170	C12H26	000112-40-3	42
4	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	38
5	Dodecane	170	C12H26	000112-40-3	38





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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

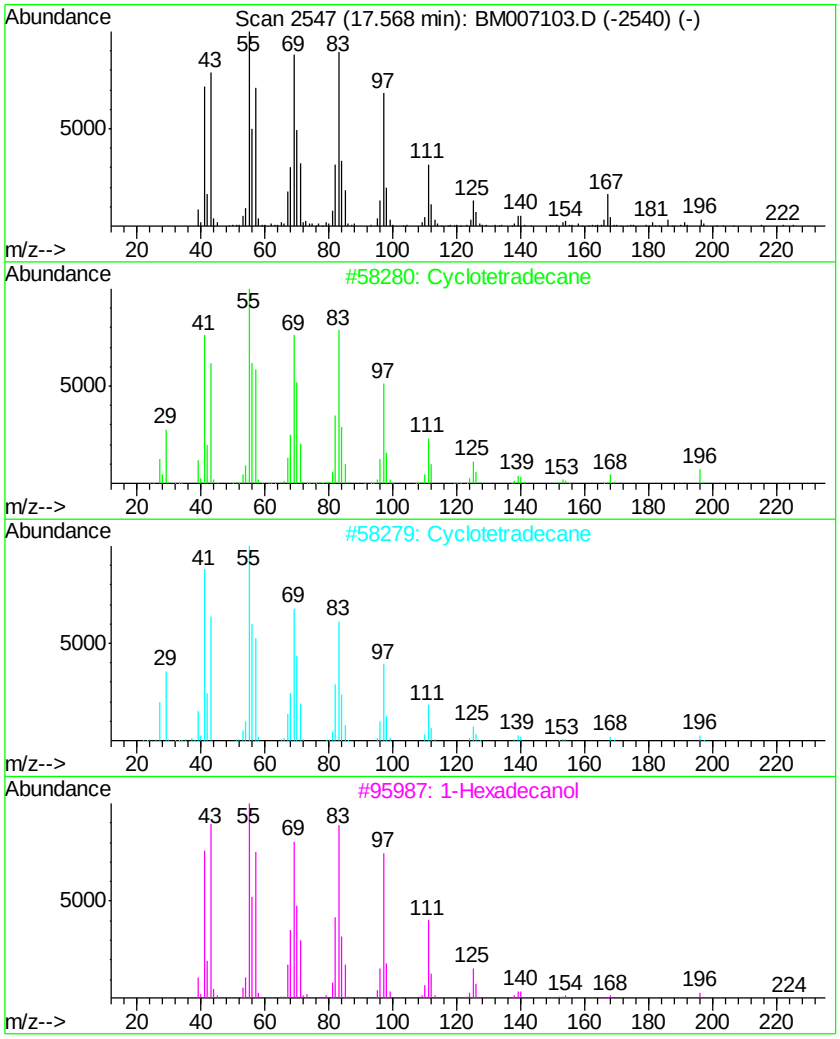
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

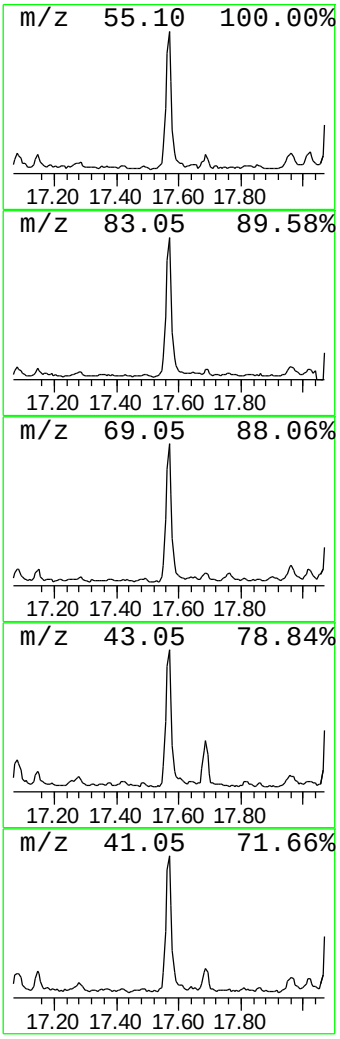
****

Peak Number 4 (DEL) Alkane: Cyclic17.57 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.57	5.57 ng/ul	1357110	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	98
2	Cyclotetradecane	196	C14H28	000295-17-0	98
3	1-Hexadecanol	242	C16H34O	036653-82-4	95
4	Cyclohexadecane	224	C16H32	000295-65-8	94
5	n-Pentadecanol	228	C15H32O	000629-76-5	94





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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

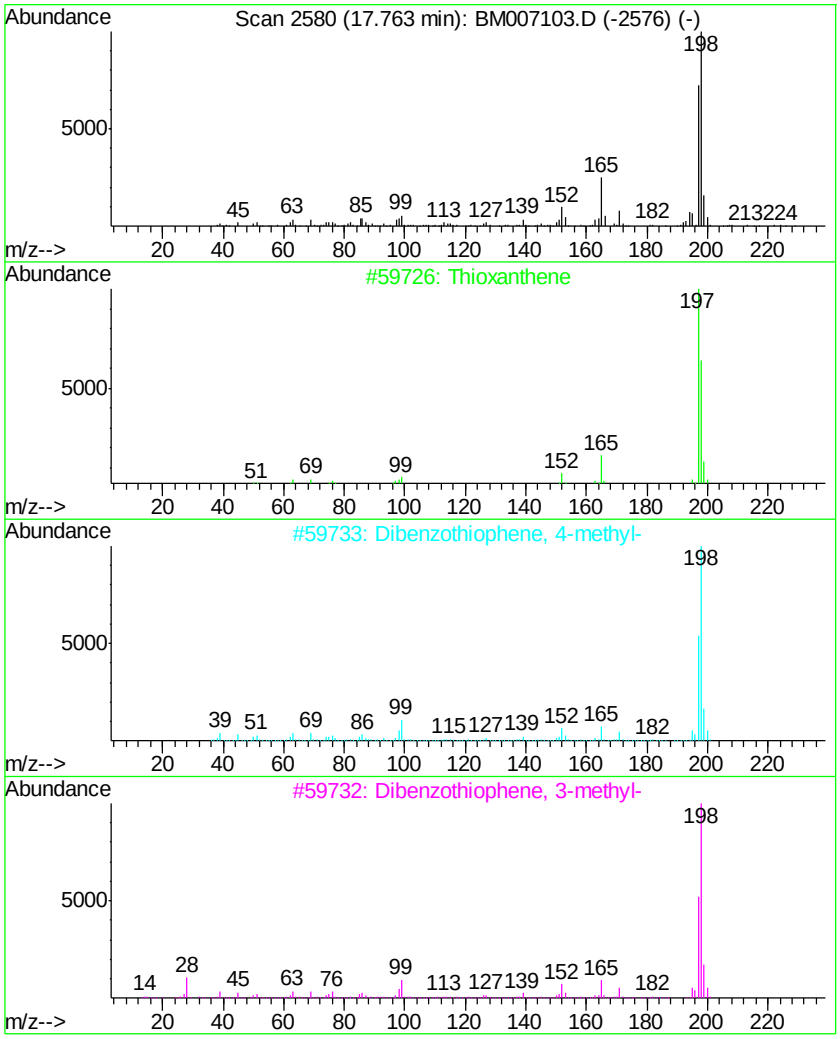
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

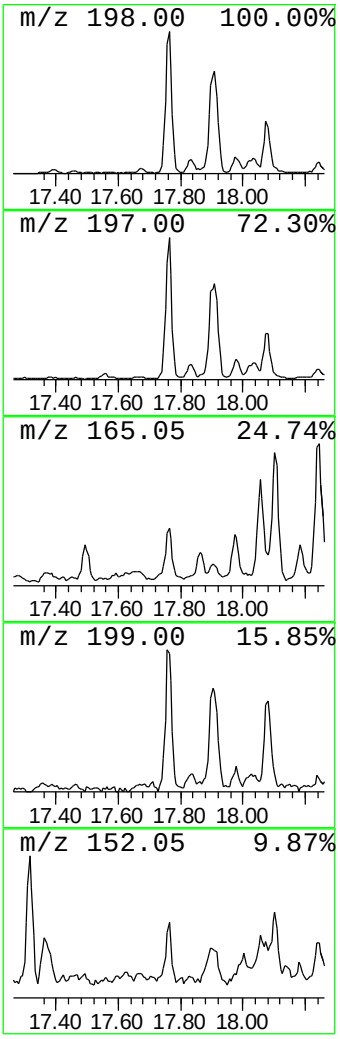
****

Peak Number 5 Thioxanthene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.76	2.09 ng/ul	508812	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thioxanthene	198	C13H10S	000261-31-4	86
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	80
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	72
4	Tacrine	198	C13H14N2	000321-64-2	64
5	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	64





Library Search Compound Report

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Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
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Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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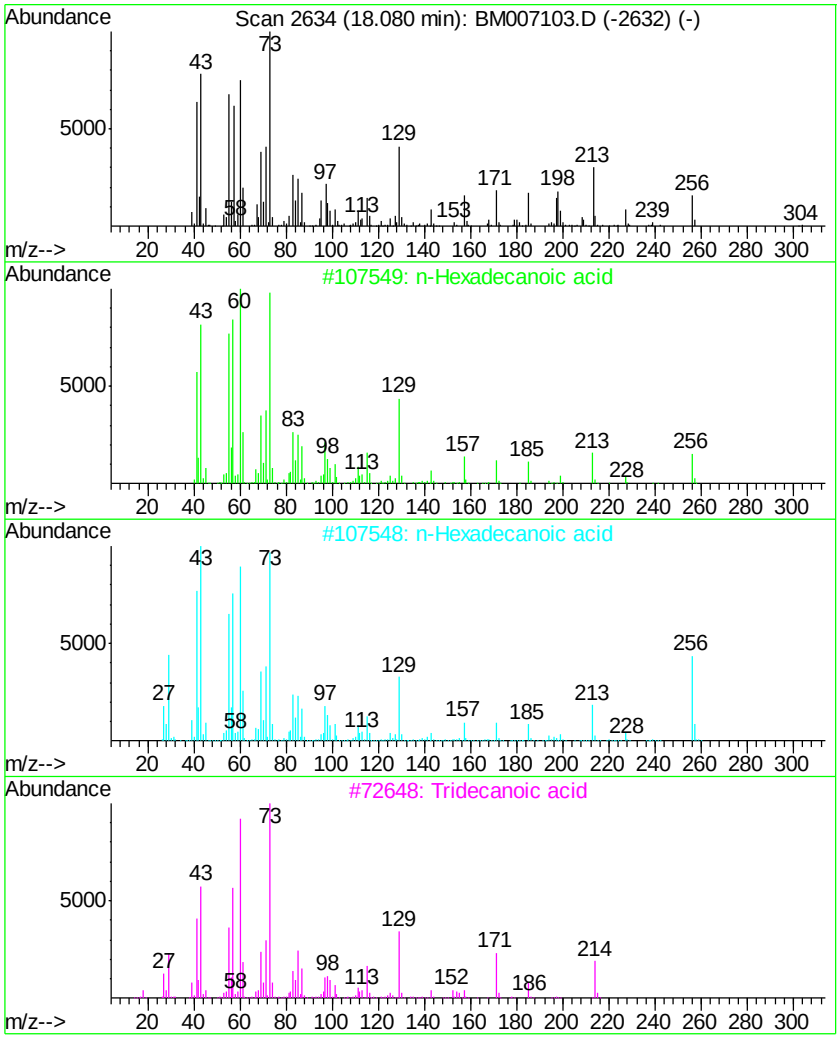
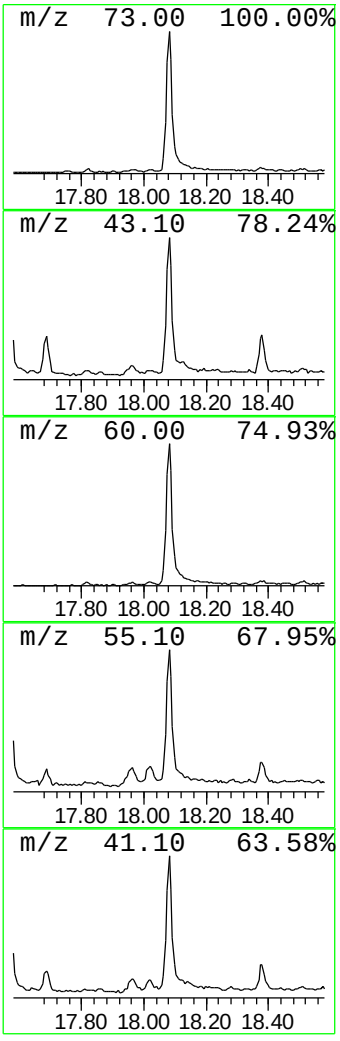
Peak Number 7 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	5.87 ng/ul	1431830	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	Tridecanoic acid	214	C13H26O2	000638-53-9	93
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	89





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Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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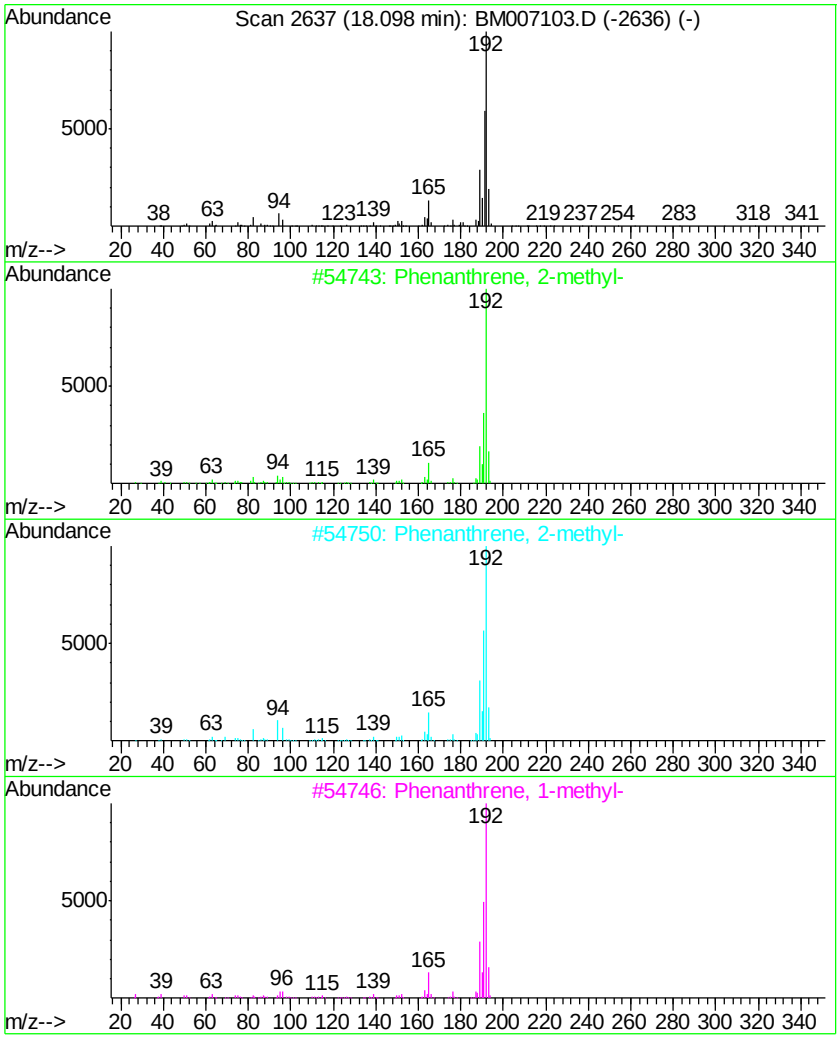
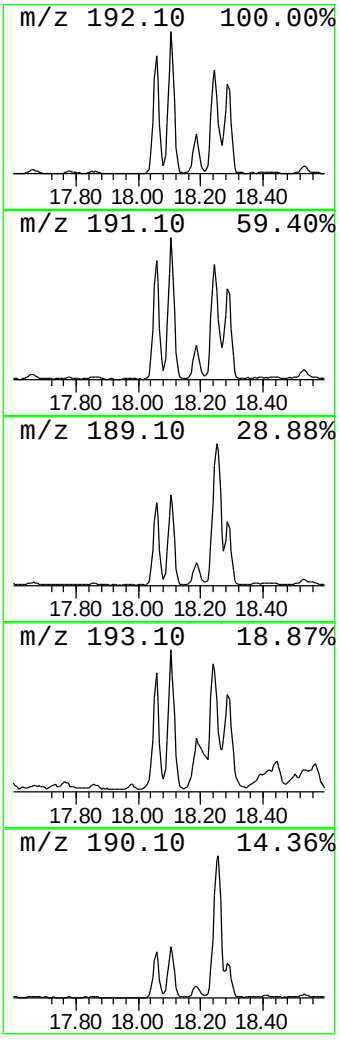
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.10	7.14 ng/ul	1742180	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Quant Title : SVOA CALIBRATION

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

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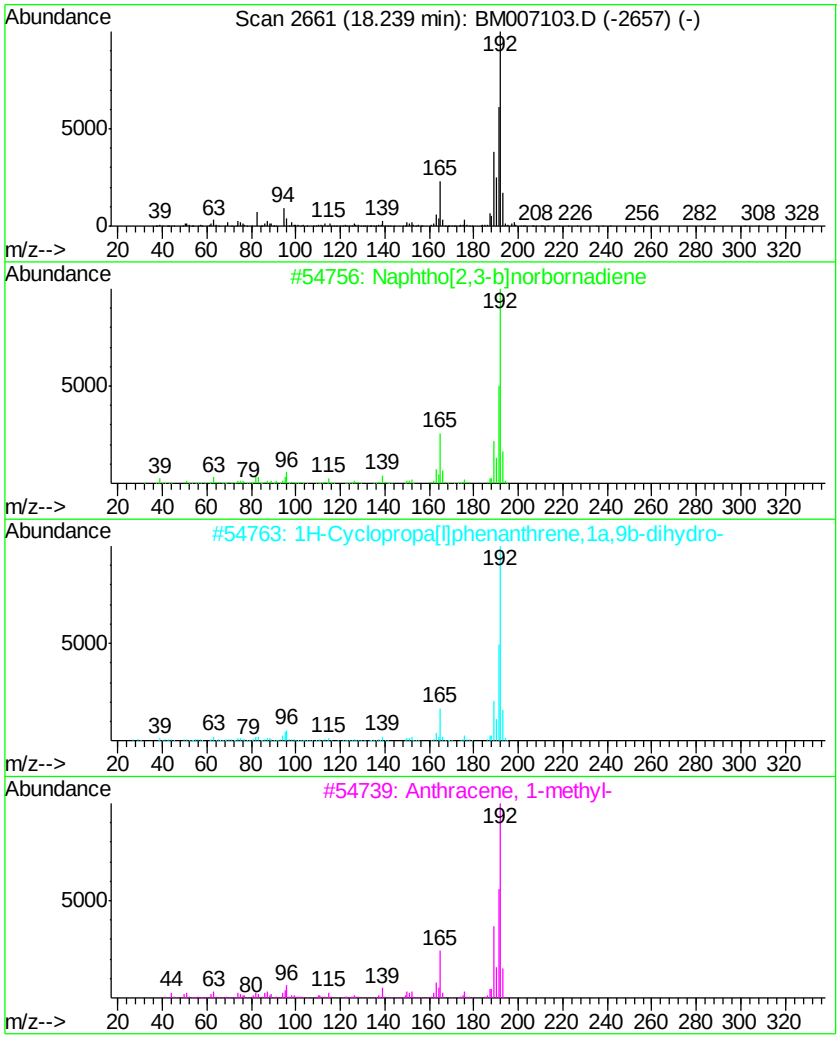
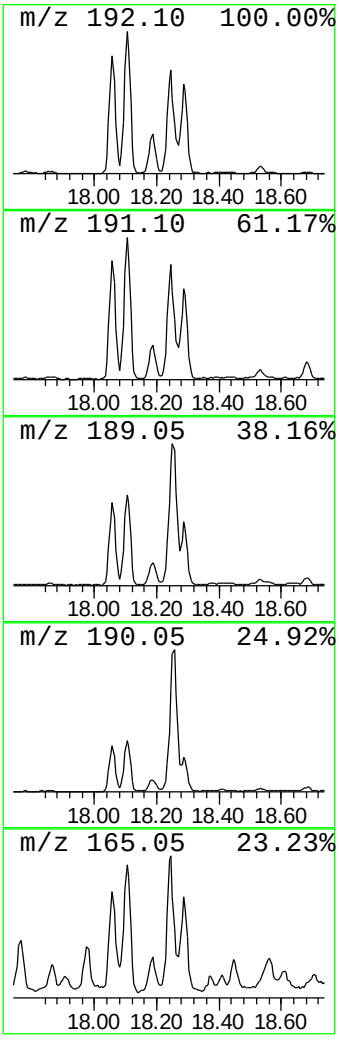
Peak Number 9 Naphtho[2,3-b]norbornadiene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.24	9.55 ng/ul	2327950	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	64
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	64
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60





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Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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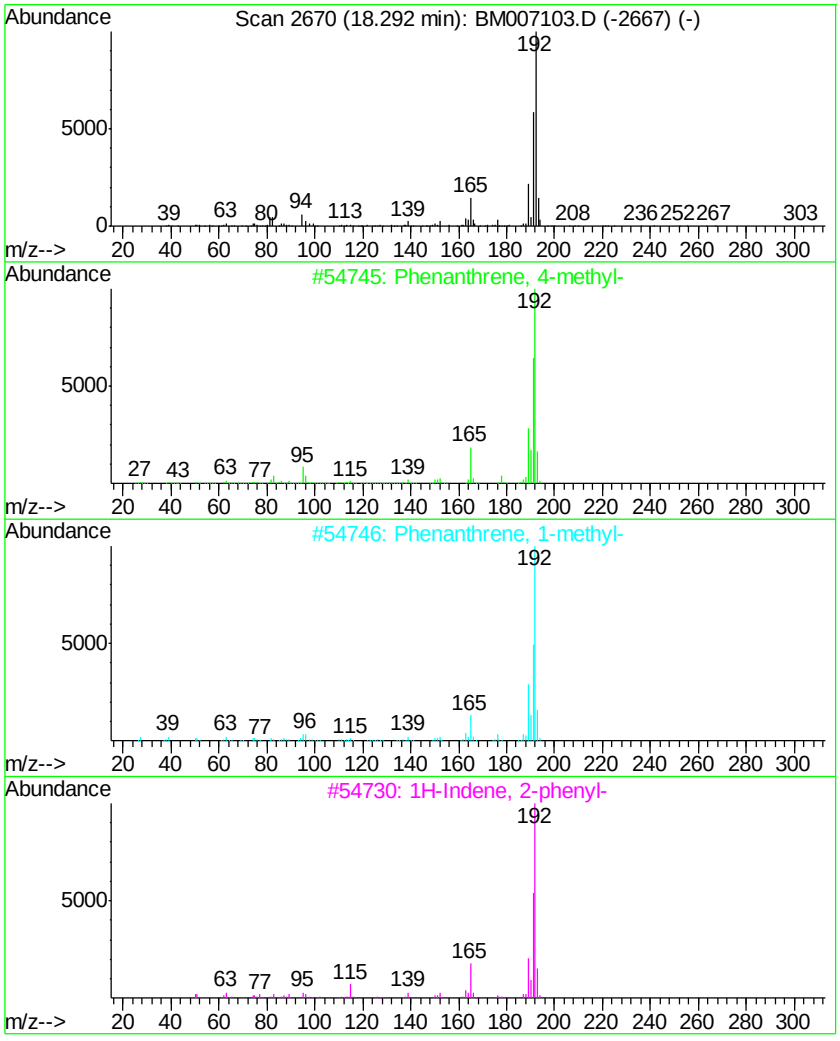
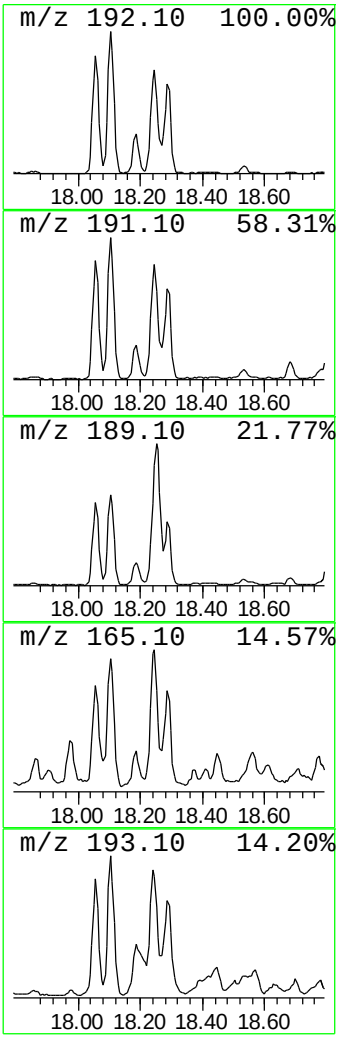
Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.29	4.56 ng/ul	1110990	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	92
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	90





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ALS Vial : 68 Sample Multiplier: 1

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ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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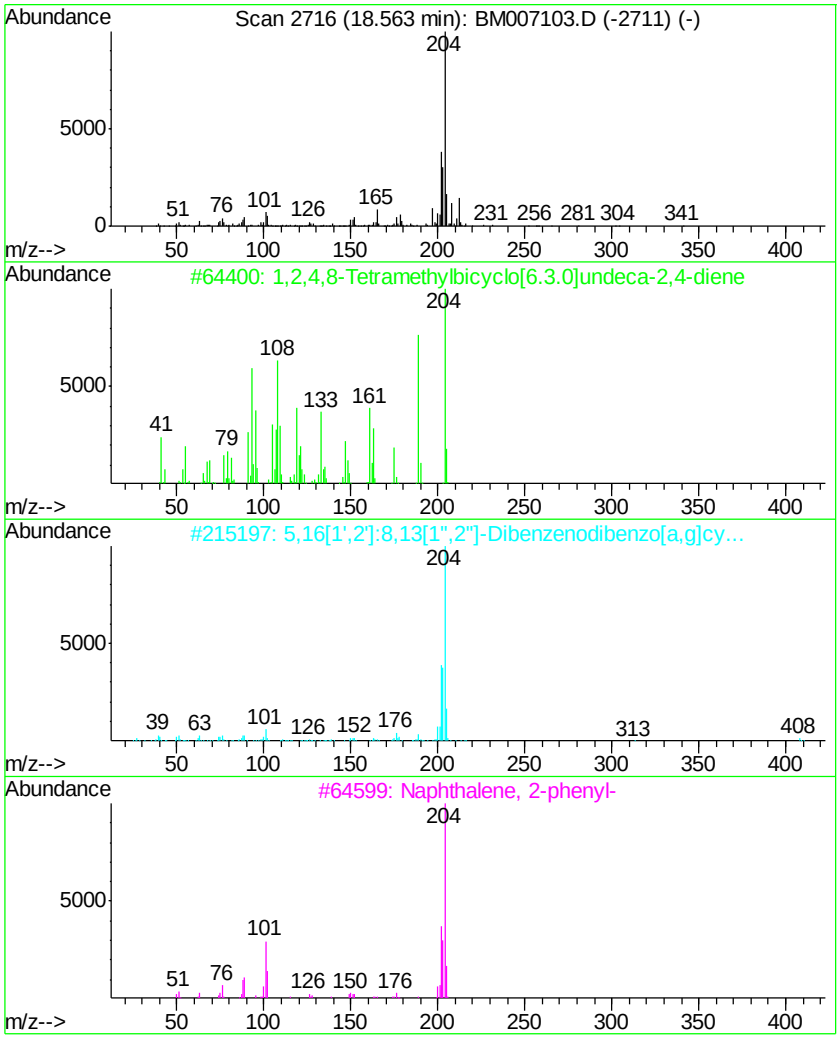
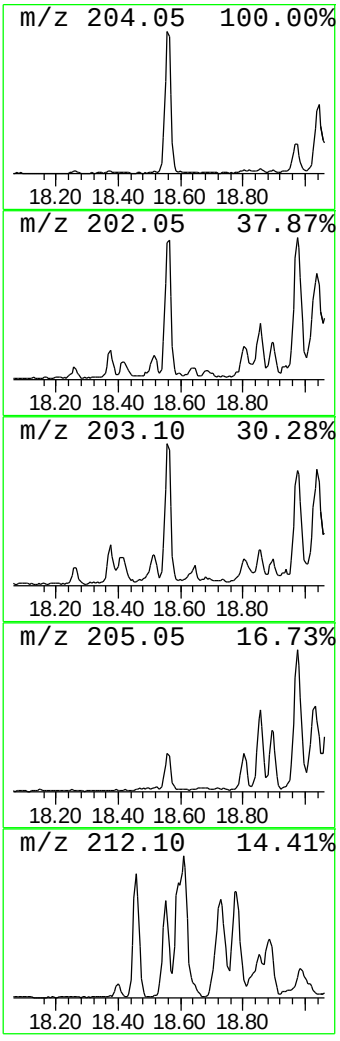
Peak Number 11 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	2.95 ng/ul	719442	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60





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ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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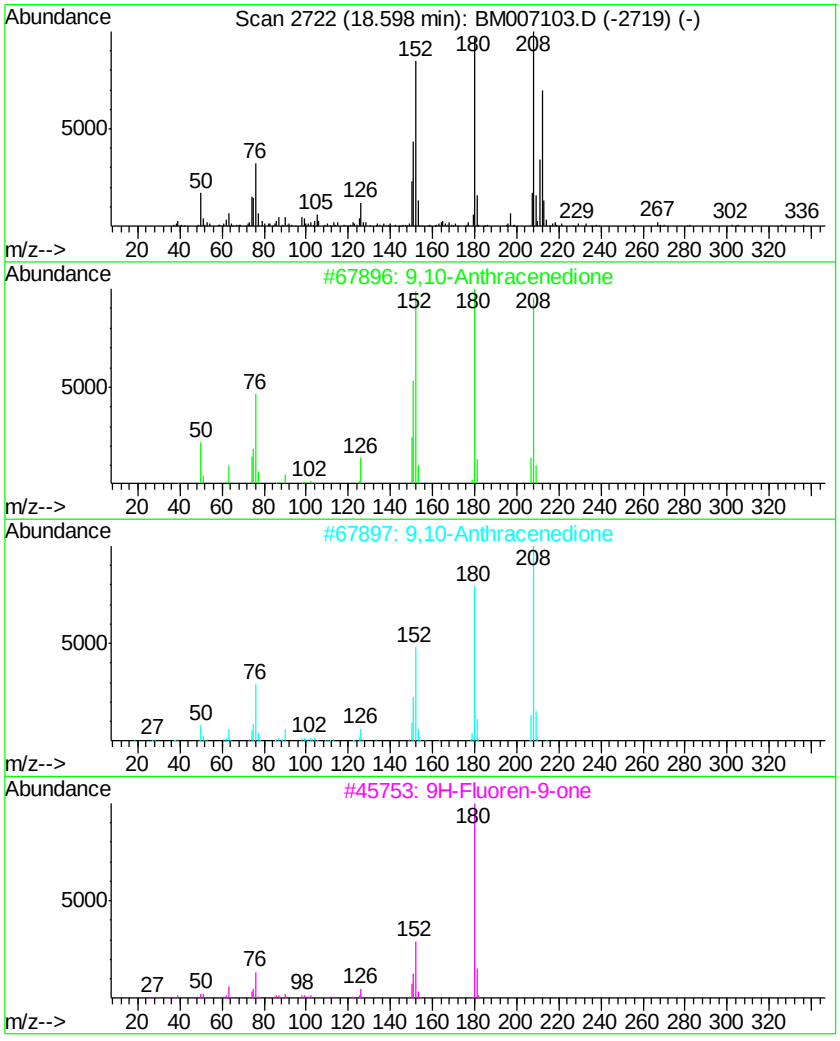
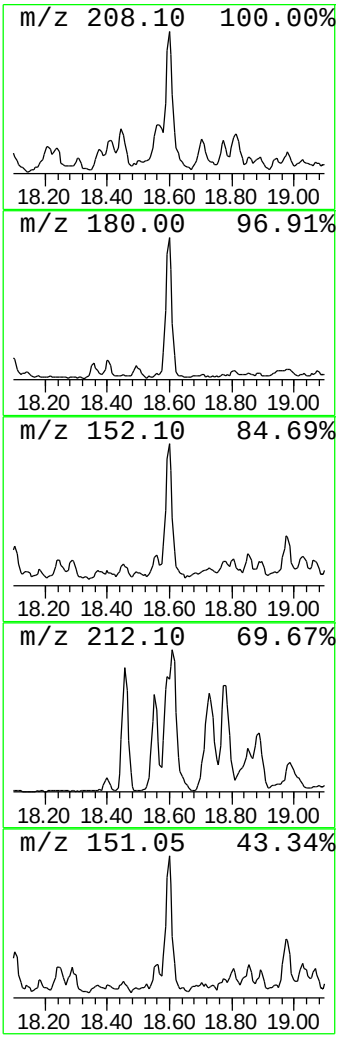
Peak Number 12 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	4.38 ng/ul	1066840	Phenanthrene-d10	17.18

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	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	89
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78





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ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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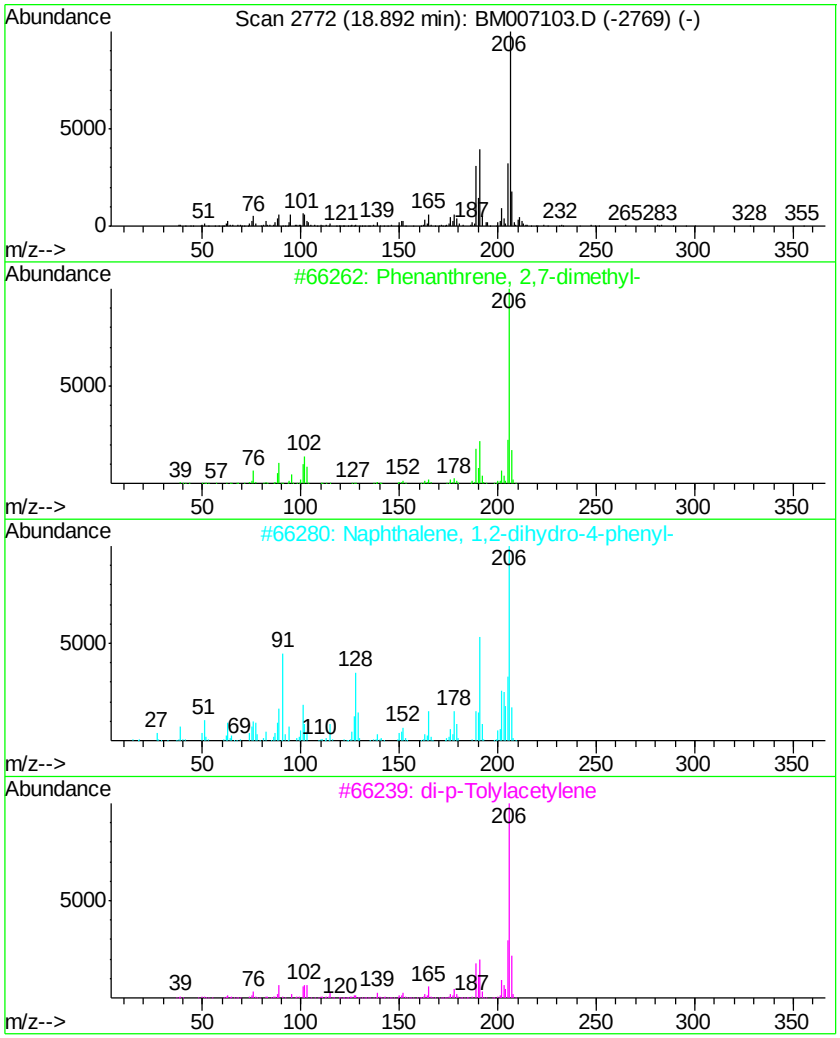
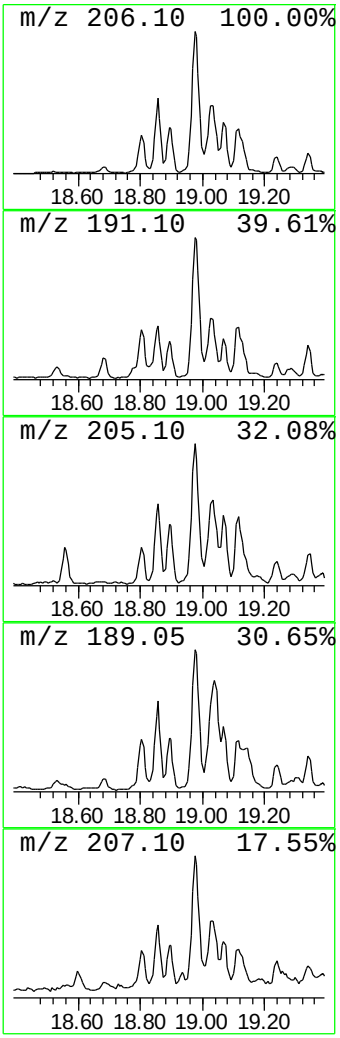
Peak Number 15 Phenanthrene, 2,7-dimethyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	3.04 ng/ul	742106	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	90
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Sample : H4387-09
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ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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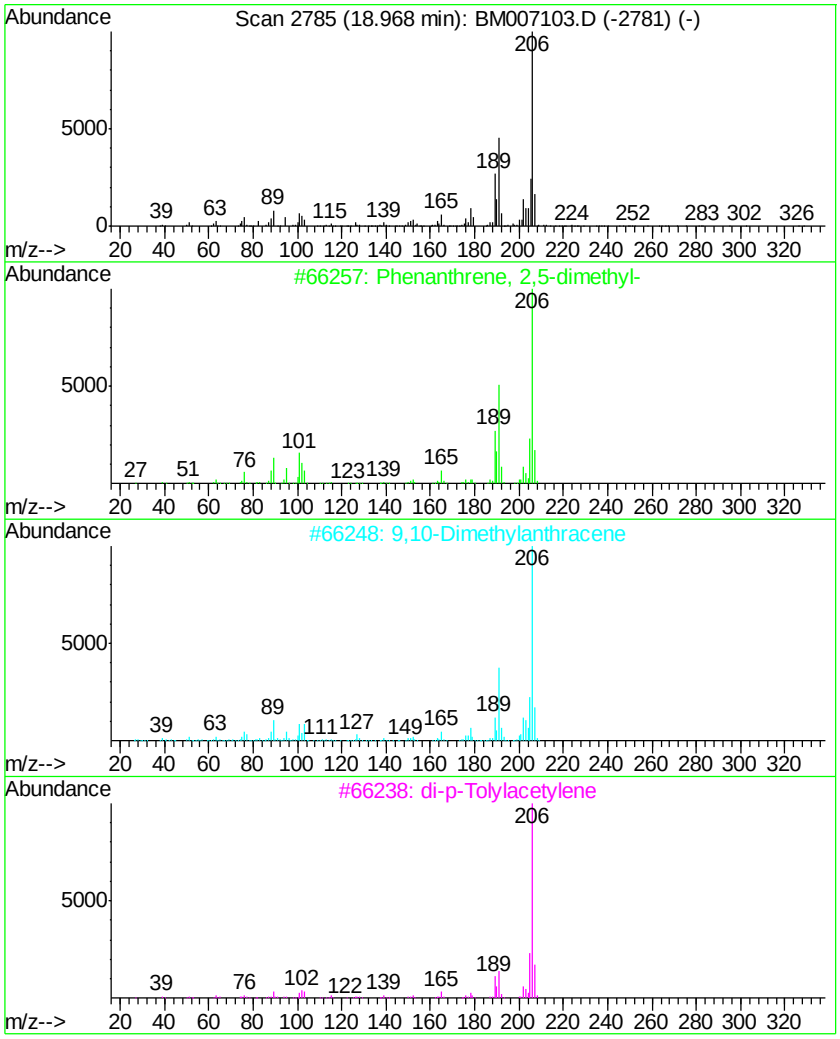
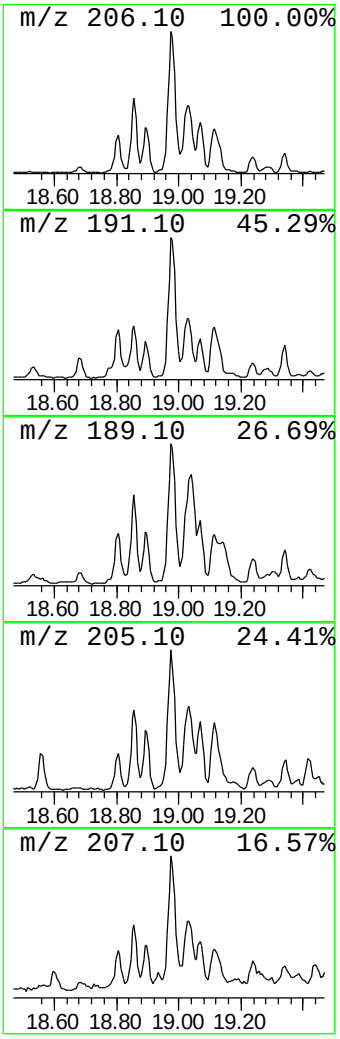
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	9.77 ng/ul	2381490	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89





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Quant Title : SVOA CALIBRATION

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

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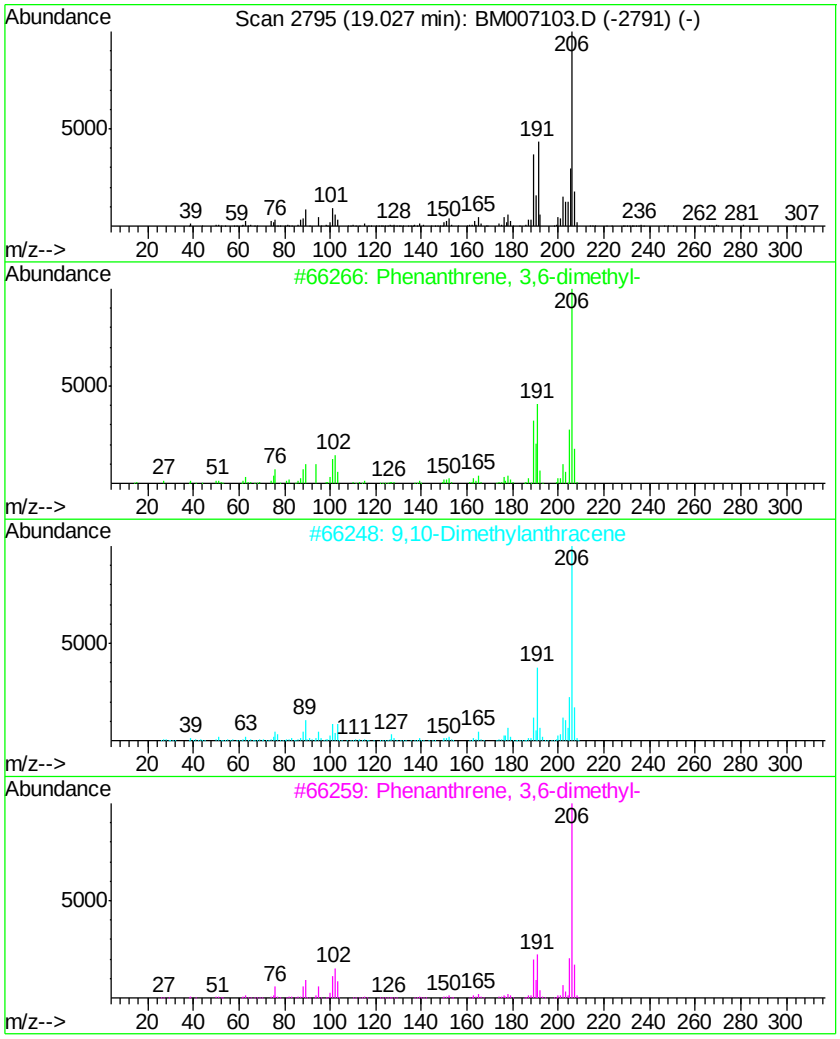
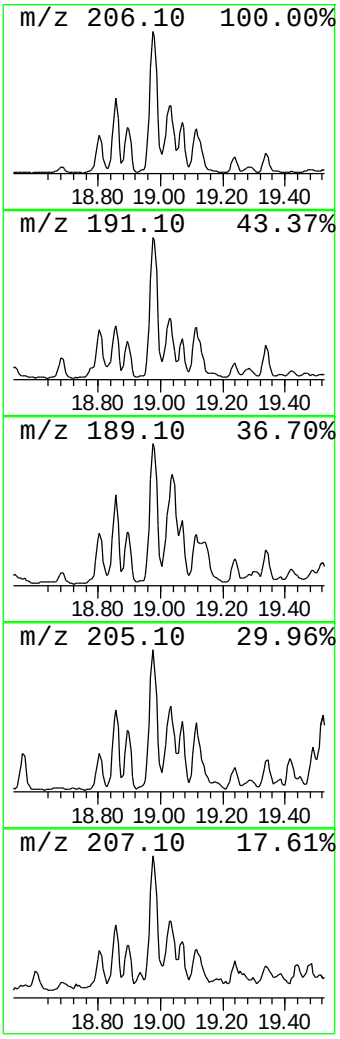
Peak Number 17 Phenanthrene, 3,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	5.62 ng/ul	1369670	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	81
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	72
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	68





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Quant Title : SVOA CALIBRATION

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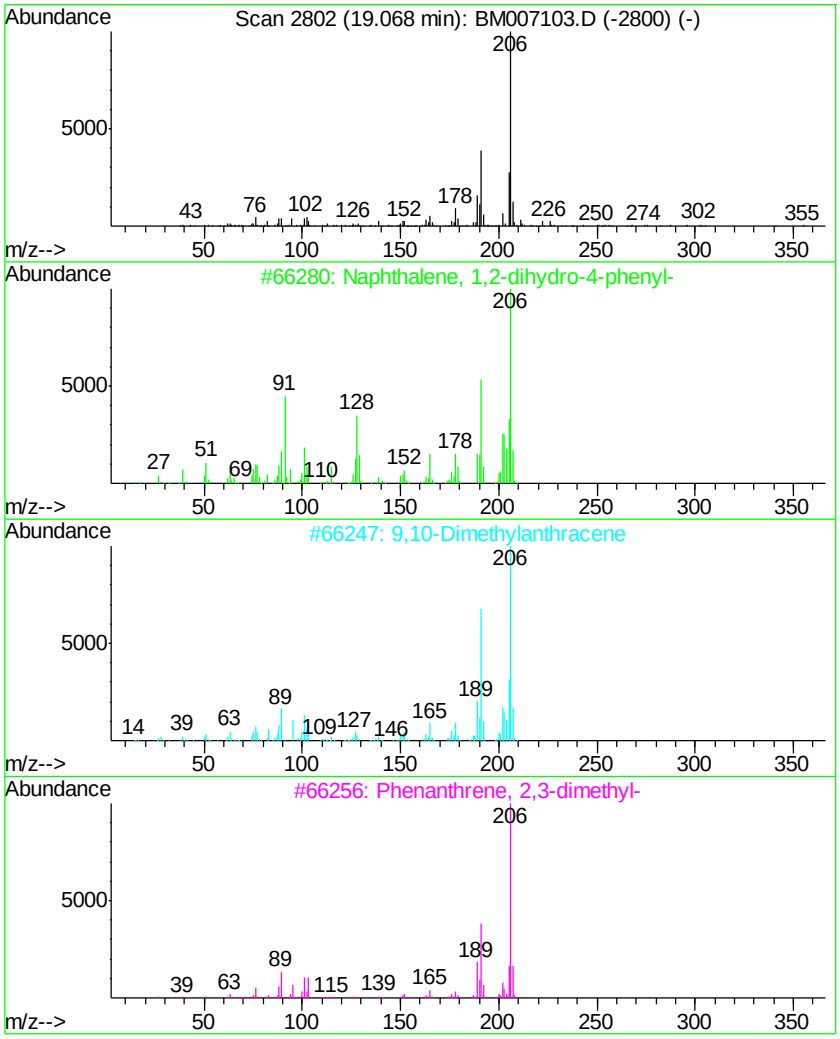
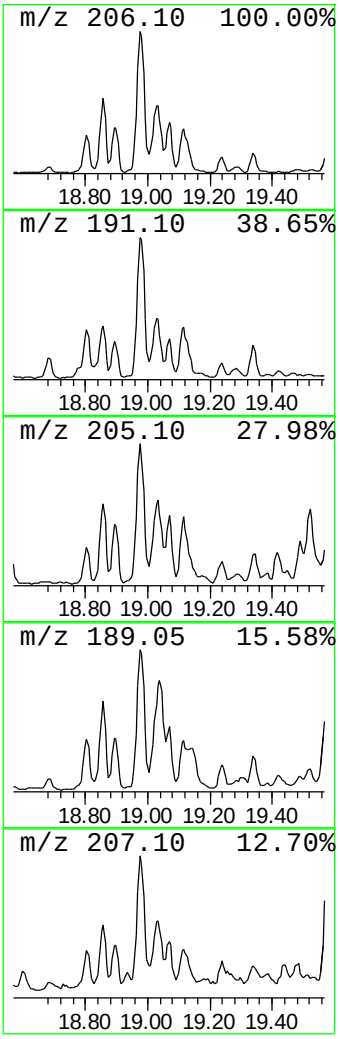
Peak Number 18 Naphthalene, 1,2-dihydro-4-... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.07	2.28 ng/ul	555531	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	94
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





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

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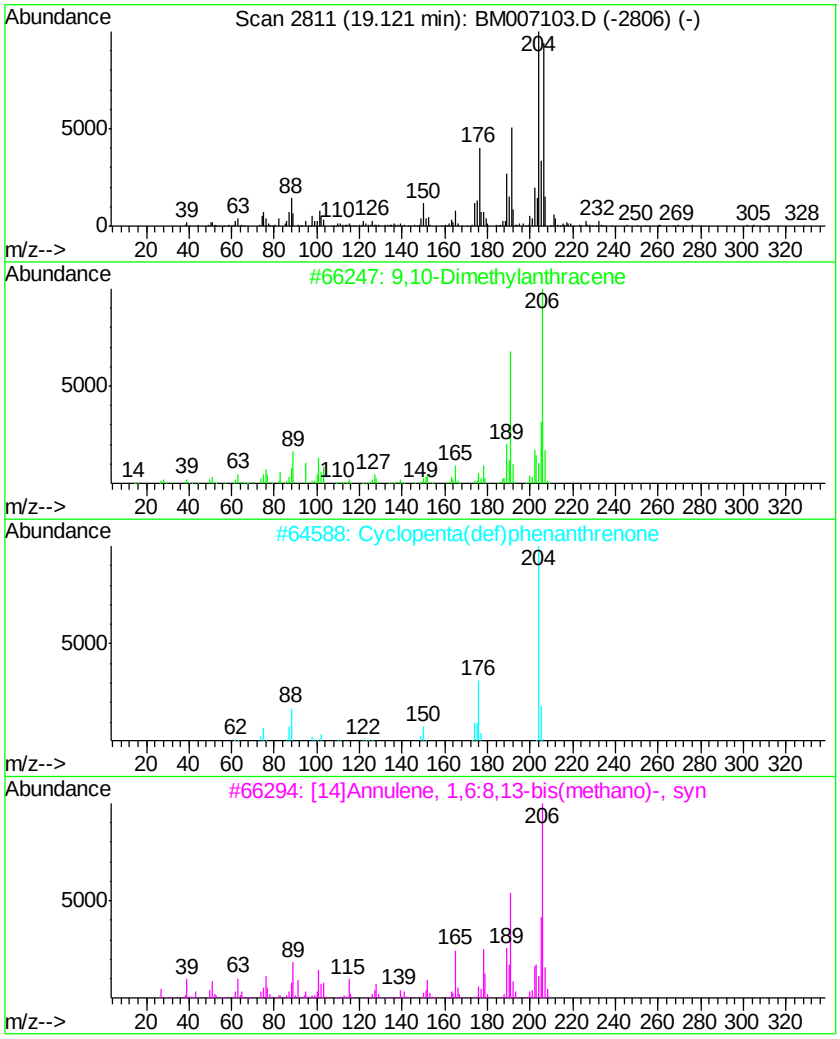
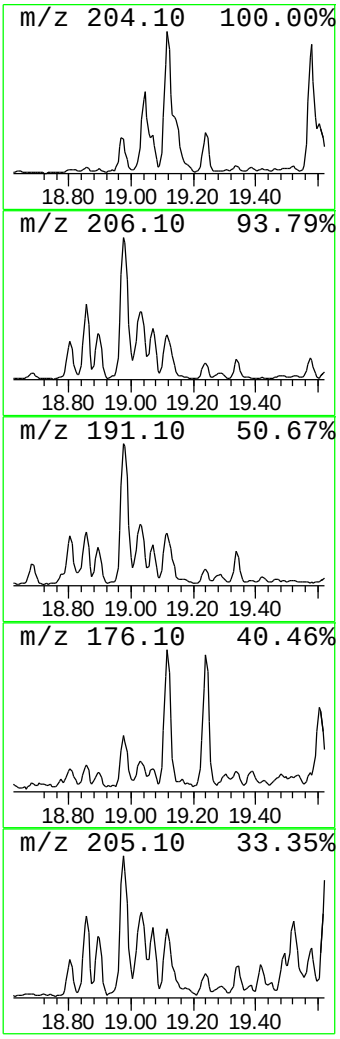
Peak Number 19 9,10-Dimethylanthracene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.12	6.17 ng/ul	1503780	Phenanthrene-d10	17.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
2	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	81
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	60
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	50
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	50





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Operator : UM/SJ
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ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
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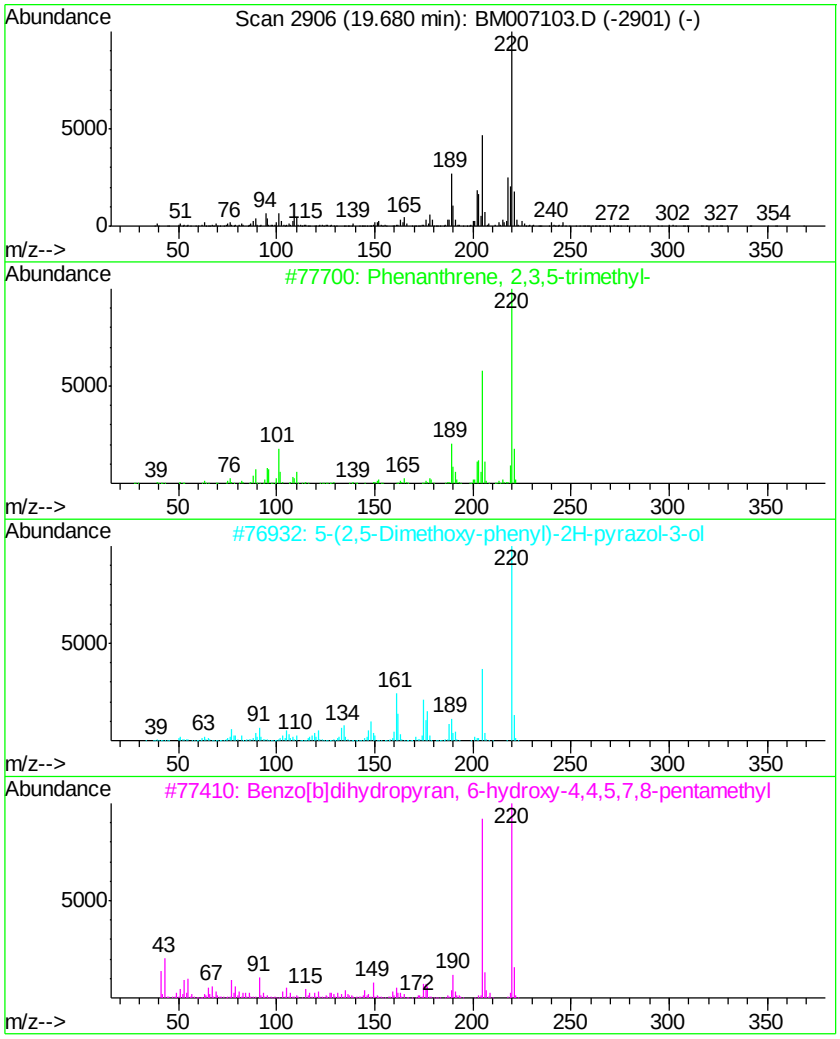
Quant Title : SVOA CALIBRATION

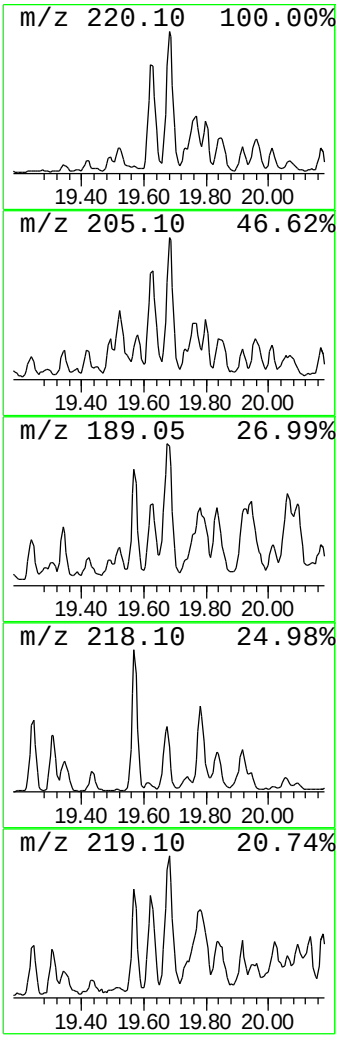
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.68	2.37 ng/ul	1371360	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	59
2	5-(2,5-Dimethoxy-phenyl)-2H-pyra...	220	C11H12N2O3	1000278-26-9	50
3	Benzo[b]dihydropyran, 6-hydroxy-...	220	C14H20O2	050442-70-1	49
4	2-Benzofurancarboxylic acid, 6-m...	220	C12H12O4	1000349-99-8	47
5	Phenmethylcynide, .alpha.,.alpha...	220	C11H12N2O3	1000128-94-6	47





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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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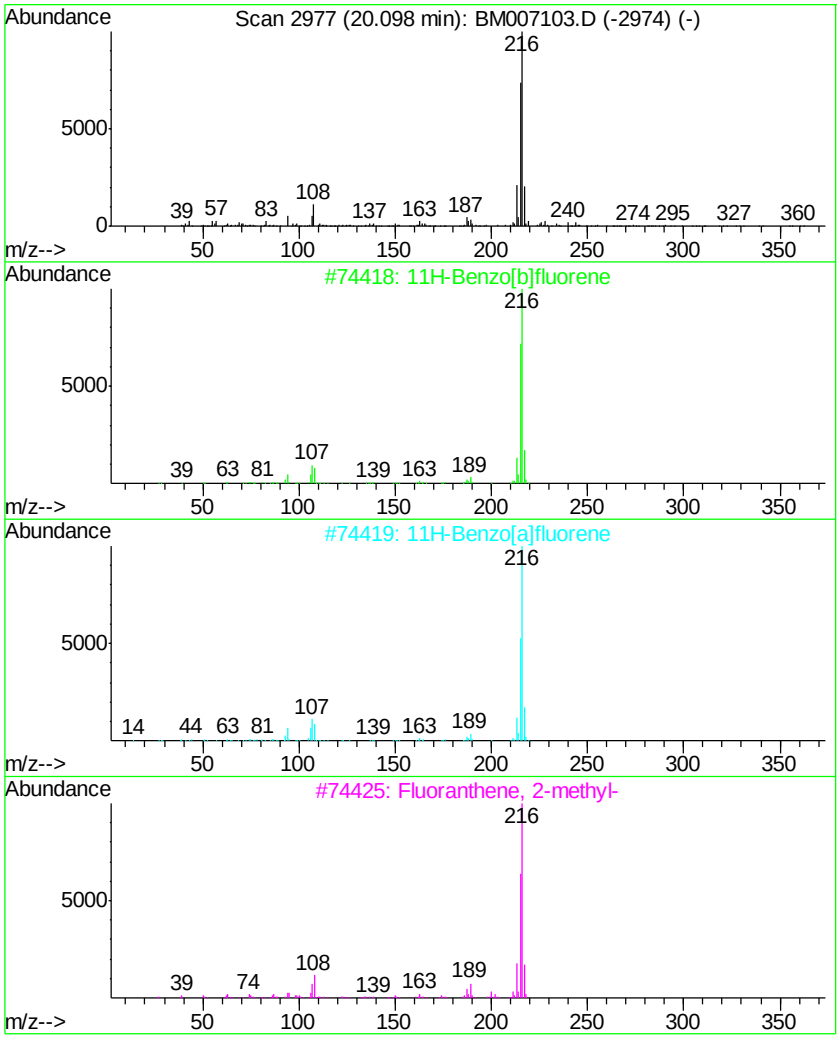
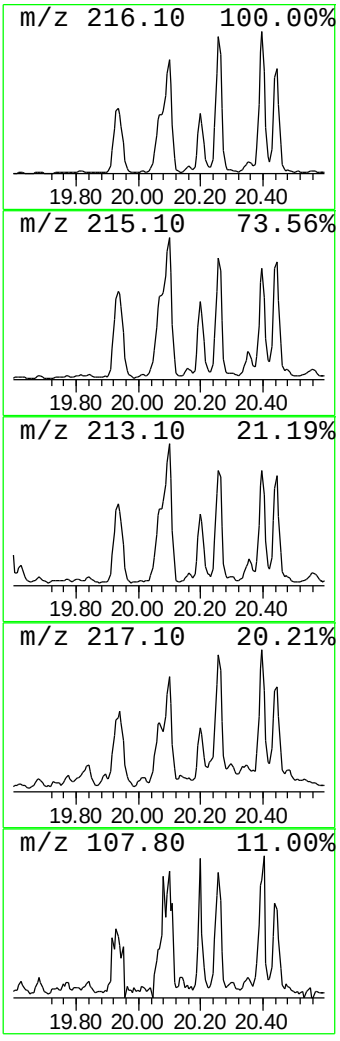
Peak Number 22 11H-Benzo[b]fluorene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	2.61 ng/ul	1513830	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





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Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

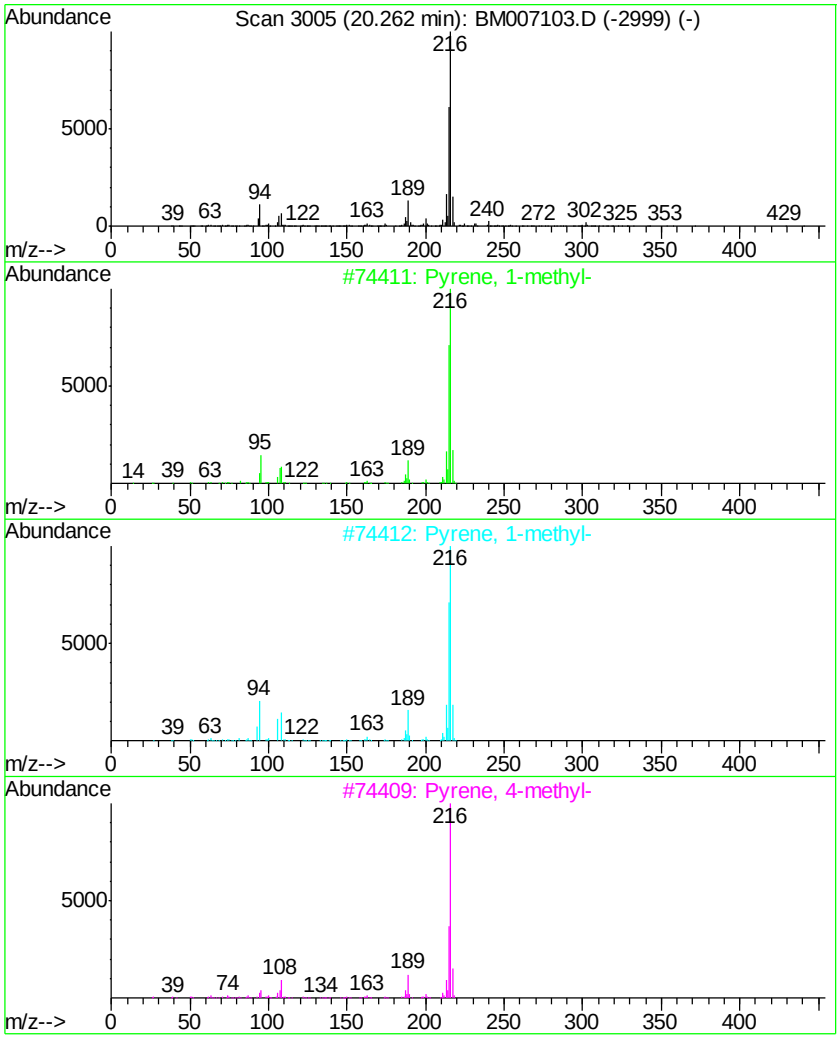
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

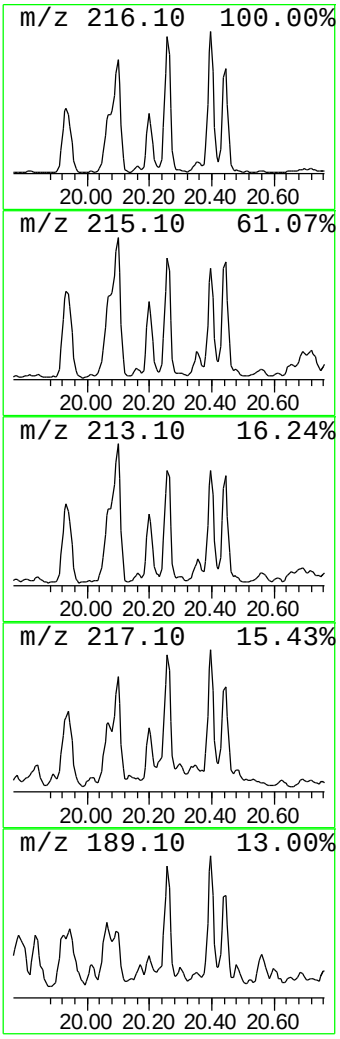
****

Peak Number 23 Pyrene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.26	3.14 ng/ul	1817160	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	95
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94





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ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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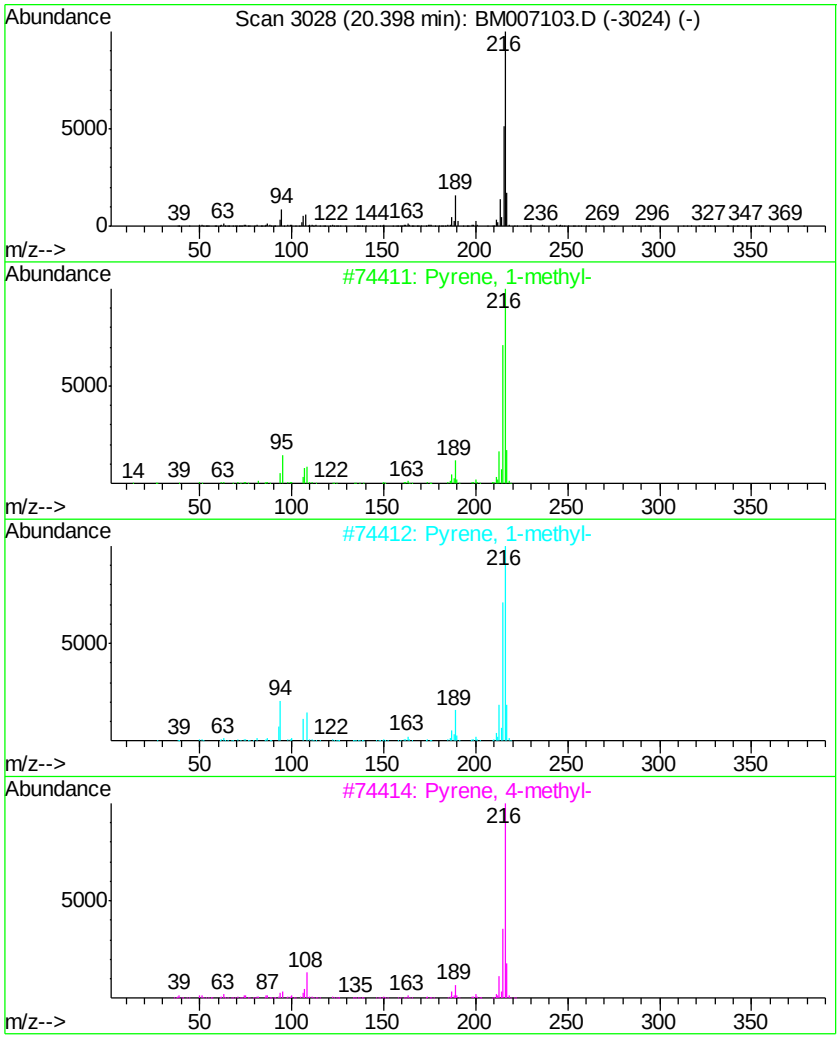
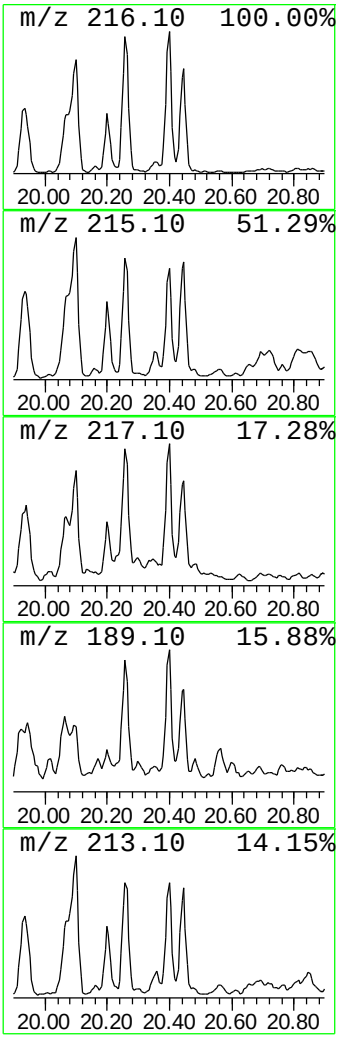
Peak Number 24 Pyrene, 4-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.40	2.39 ng/ul	1382500	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	95
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94





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ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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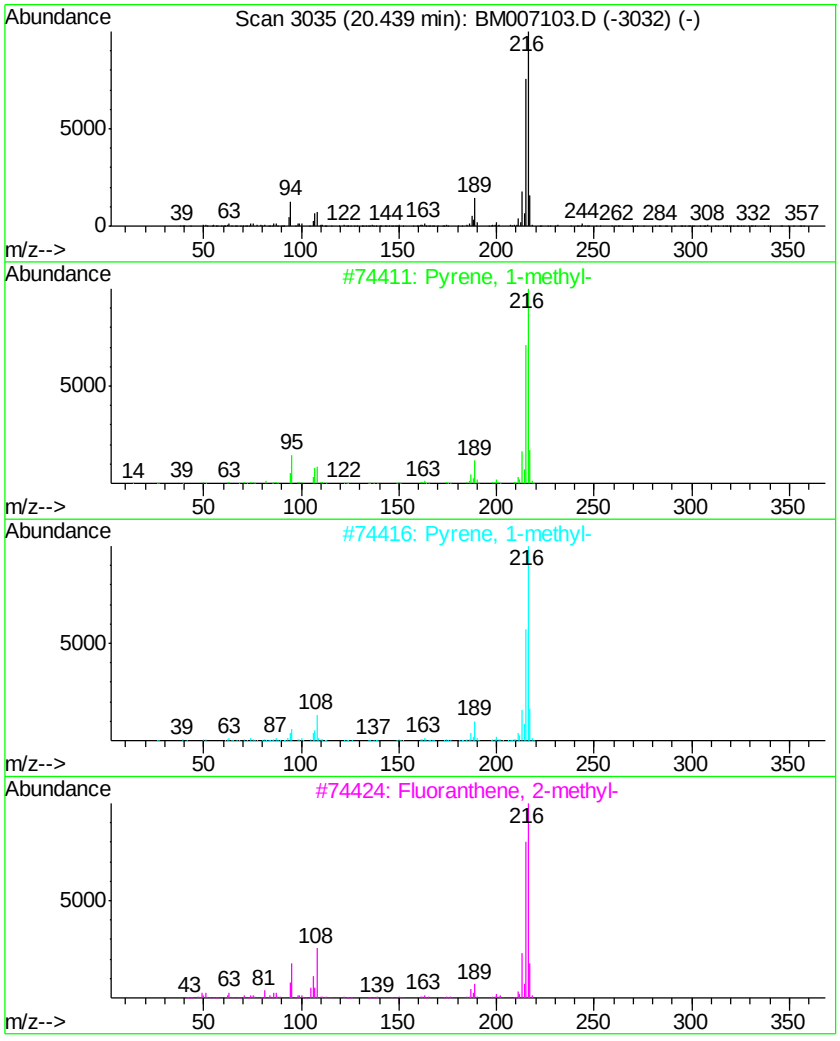
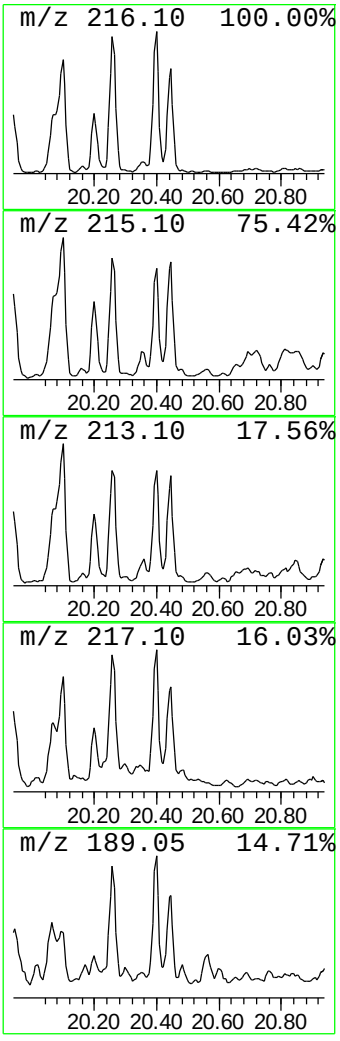
Peak Number 25 Fluoranthene, 2-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.44	2.15 ng/ul	1246680	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





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Quant Title : SVOA CALIBRATION

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

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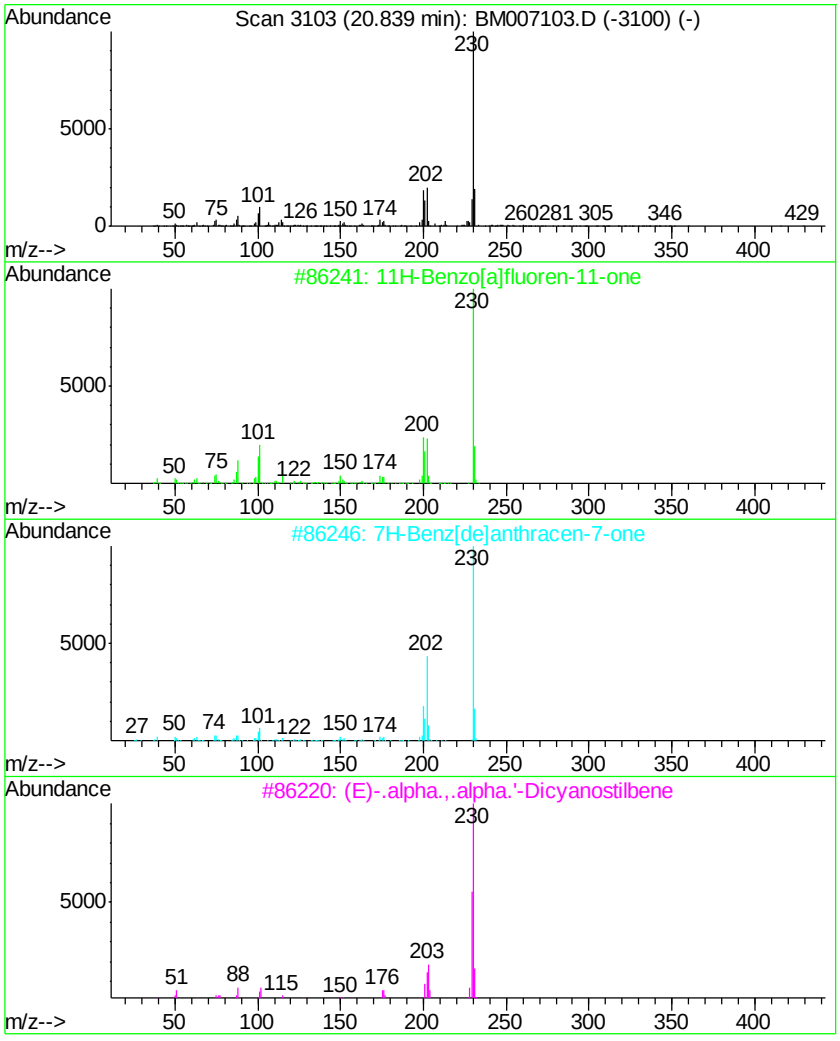
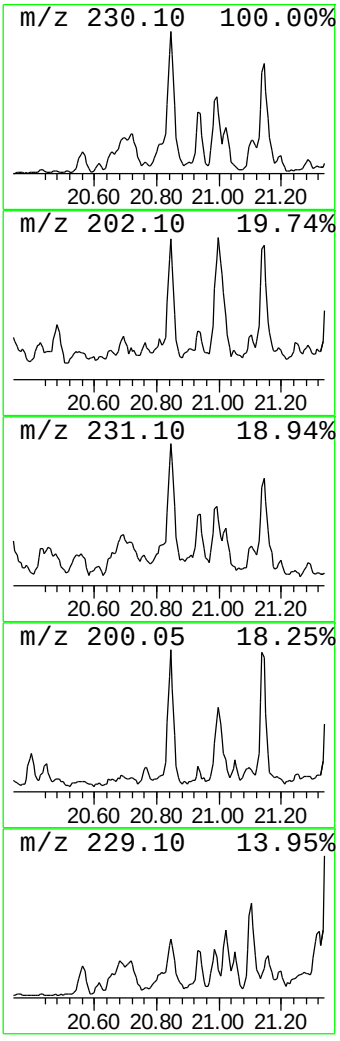
Peak Number 26 11H-Benzo[a]fluoren-11-one Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.84	2.49 ng/ul	1441670	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	93
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76
3	(E)-.alpha.,.alpha.'-Dicyanostil...	230	C16H10N2	002450-55-7	72
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	64





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ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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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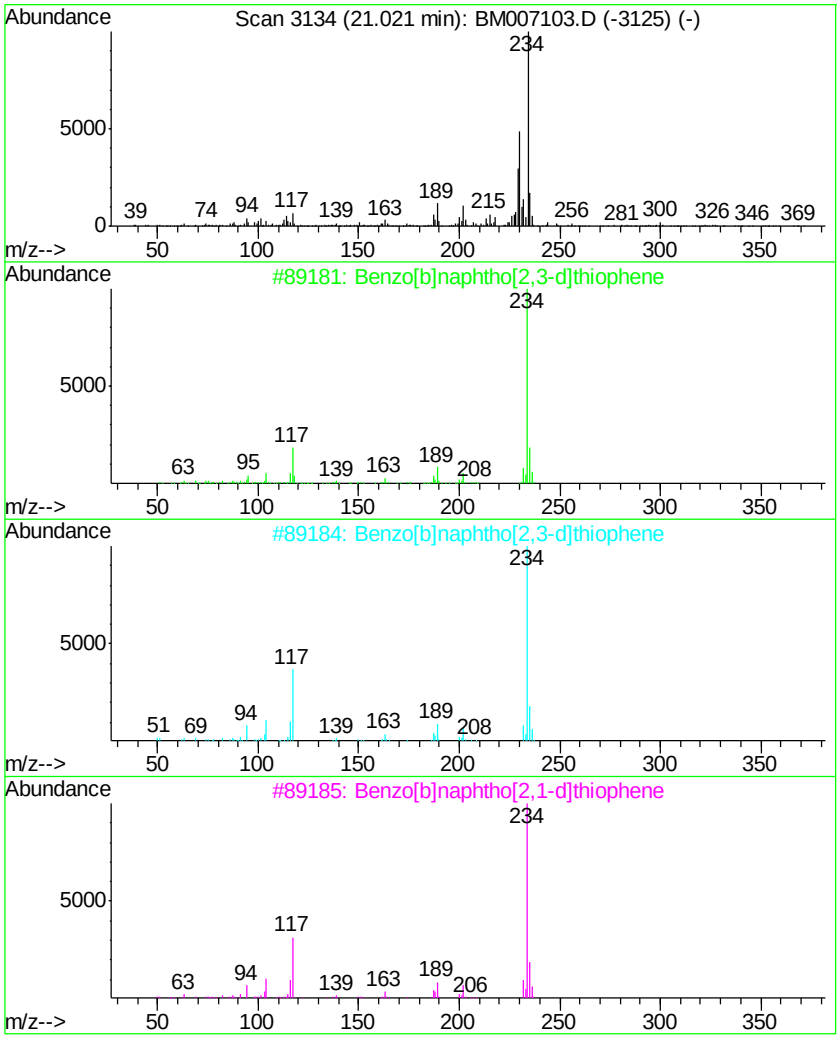
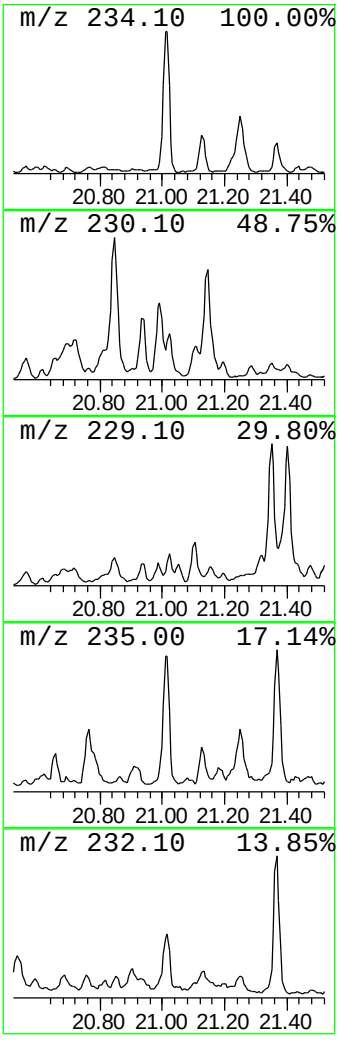
Peak Number 27 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.02	3.43 ng/ul	1988900	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	93
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	90
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	89
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	89





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Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

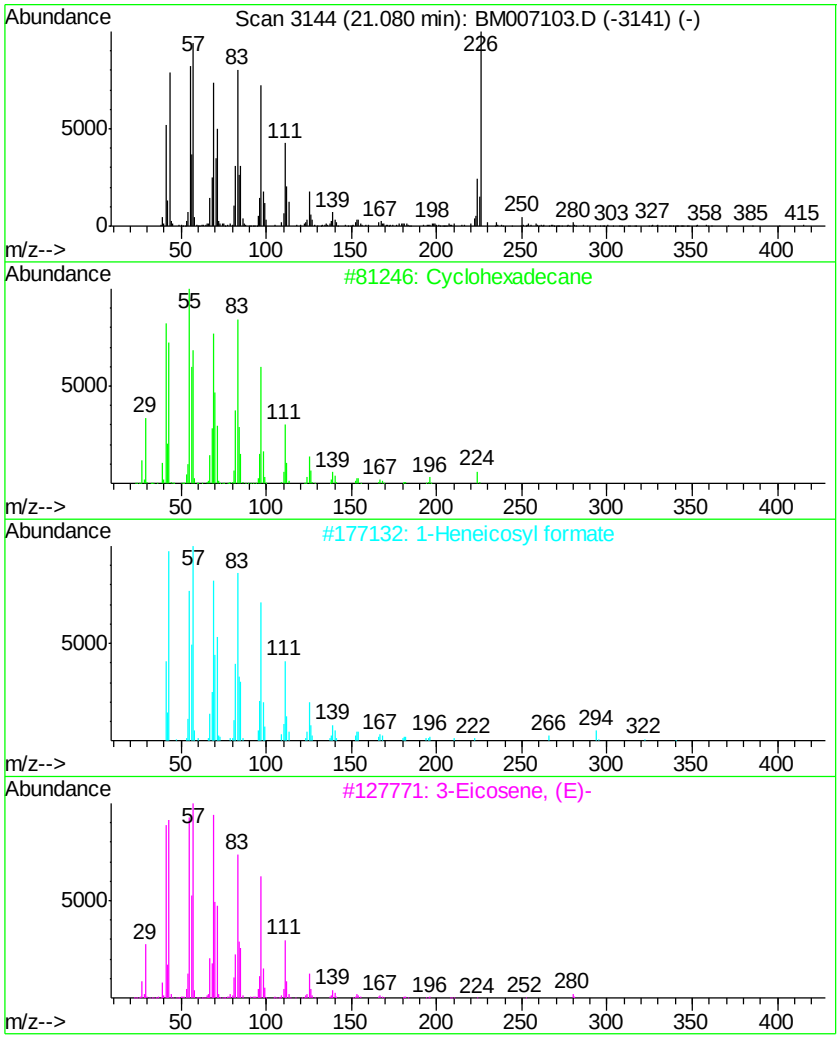
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

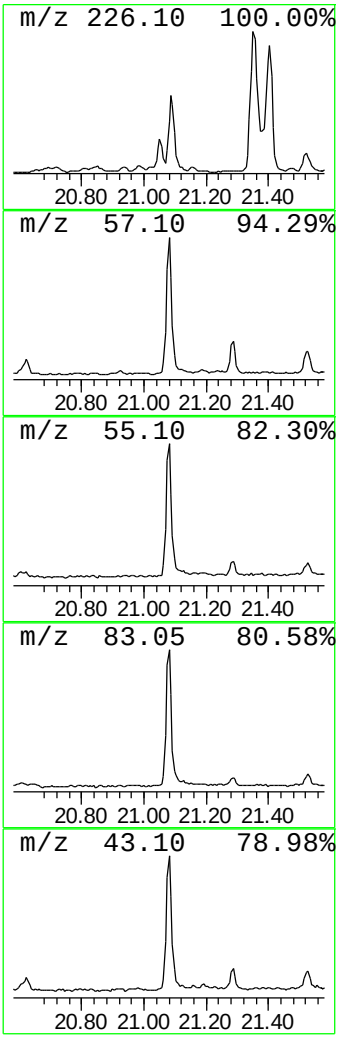
****

Peak Number 28 (DEL) Alkane: Cyclic21.08 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.08	4.19 ng/ul	2427810	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	98
2	1-Heneicosyl formate	340	C22H44O2	077899-03-7	92
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	90
4	Behenic alcohol	326	C22H46O	000661-19-8	86
5	1-Heneicosanol	312	C21H44O	015594-90-8	86





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Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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Quant Title : SVOA CALIBRATION

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

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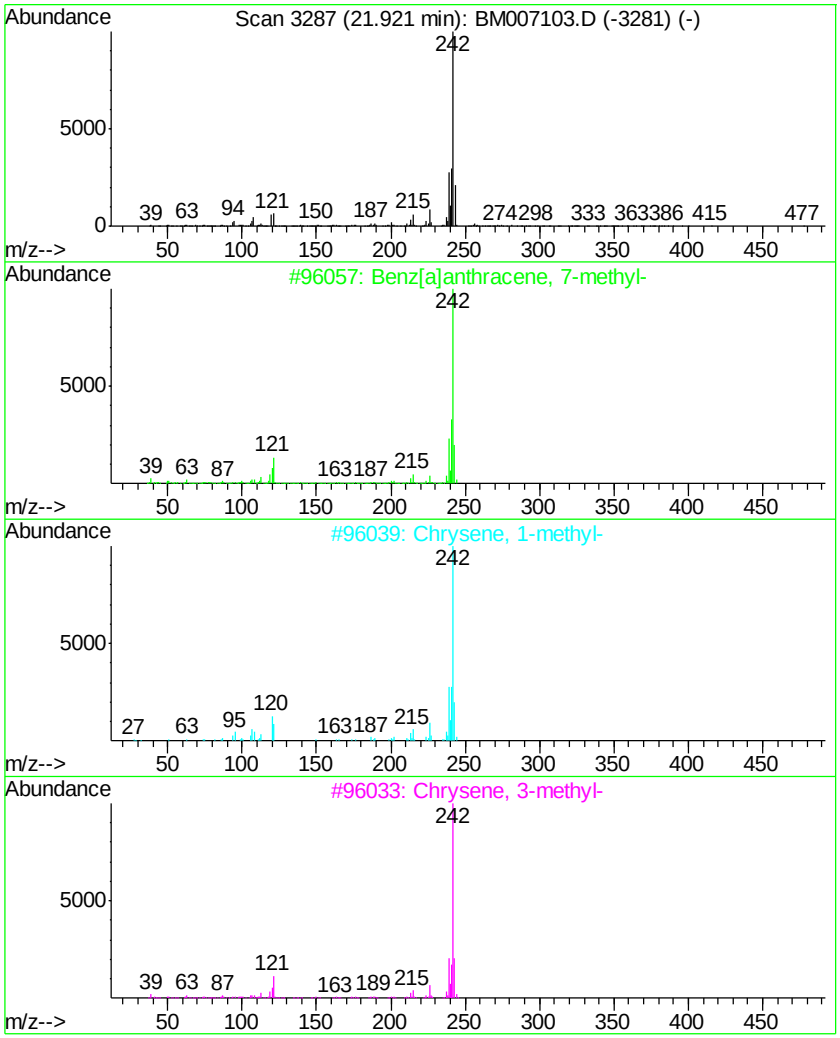
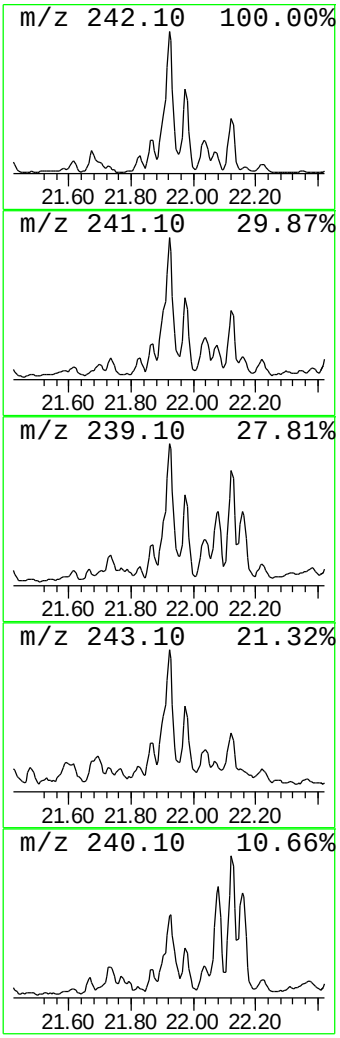
Peak Number 29 Benz[a]anthracene, 7-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.92	3.47 ng/ul	2006890	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	93
3	Chrysene, 3-methyl-	242	C19H14	003351-31-3	93
4	Benz[a]anthracene, 11-methyl-	242	C19H14	006111-78-0	93
5	2-Methylchrysene	242	C19H14	003351-32-4	91





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Quant Title : SVOA CALIBRATION

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

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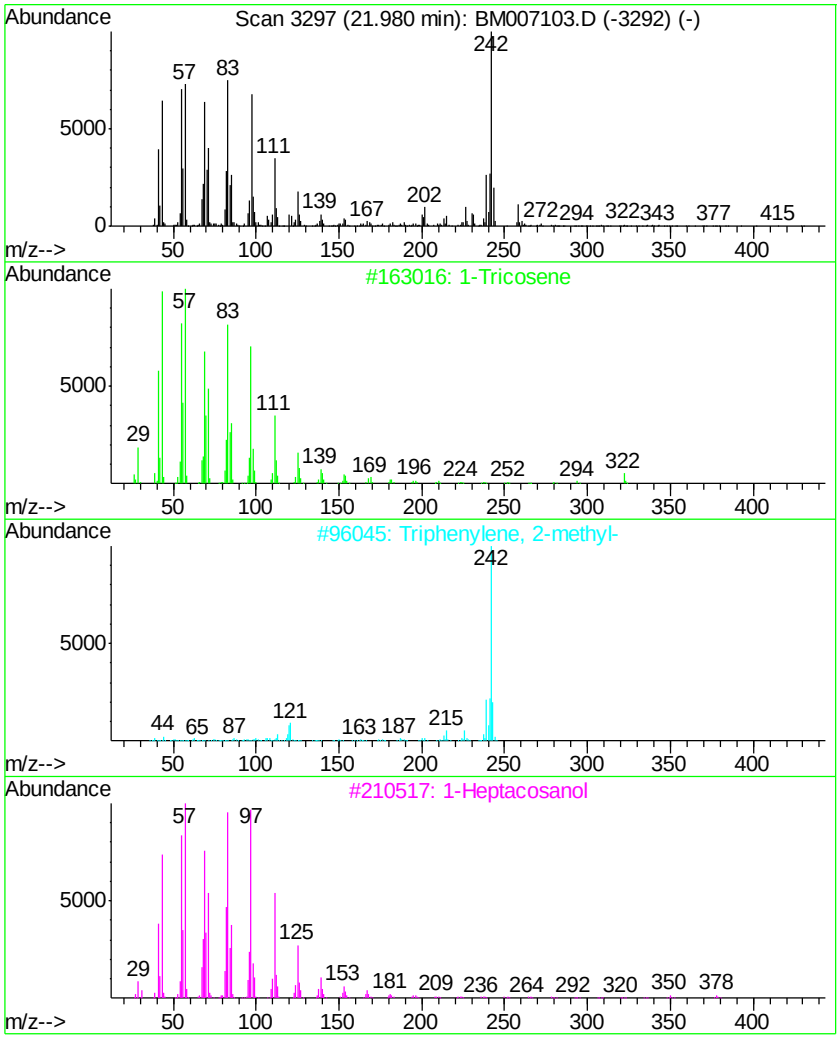
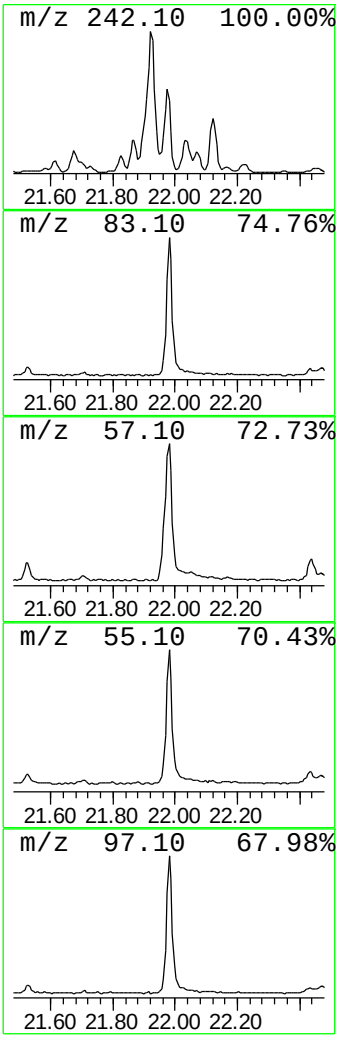
Peak Number 30 (DEL) Alkane: Cyclic21.98 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.98	5.56 ng/ul	3221400	Chrysene-d12	21.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	96
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	70
3	1-Heptacosanol	396	C27H56O	002004-39-9	70
4	1-Heneicosanol	312	C21H44O	015594-90-8	70
5	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	70





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Quant Title : SVOA CALIBRATION

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

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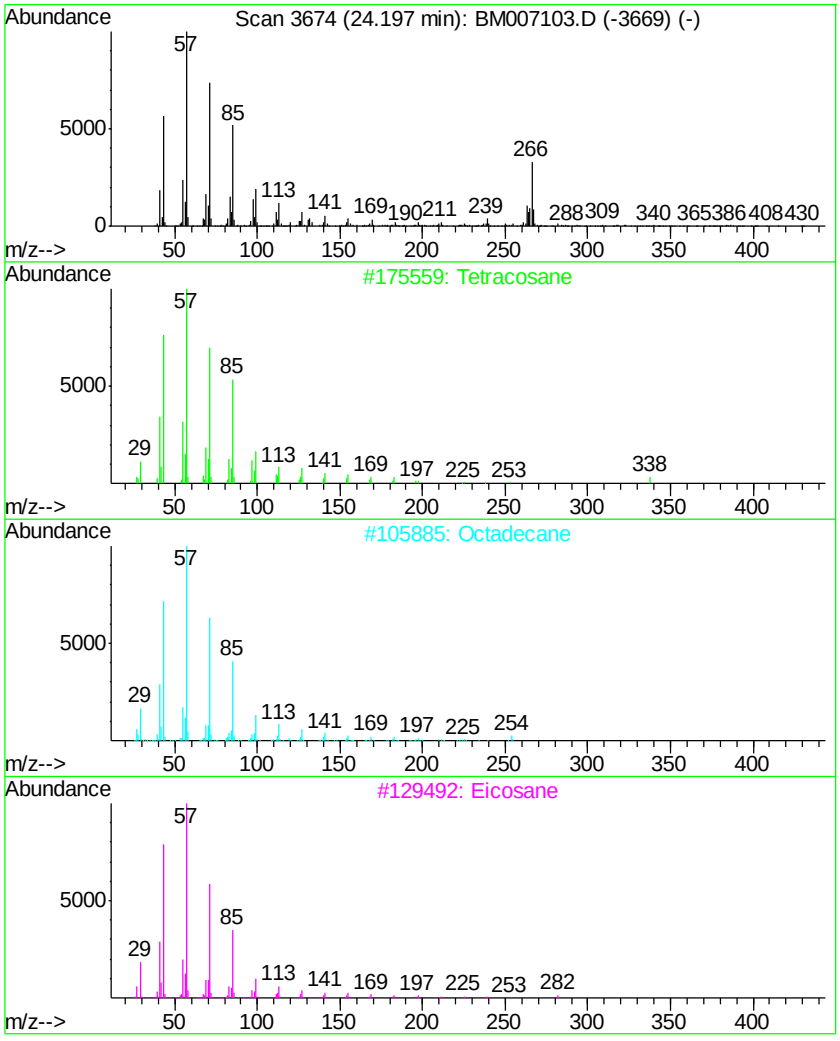
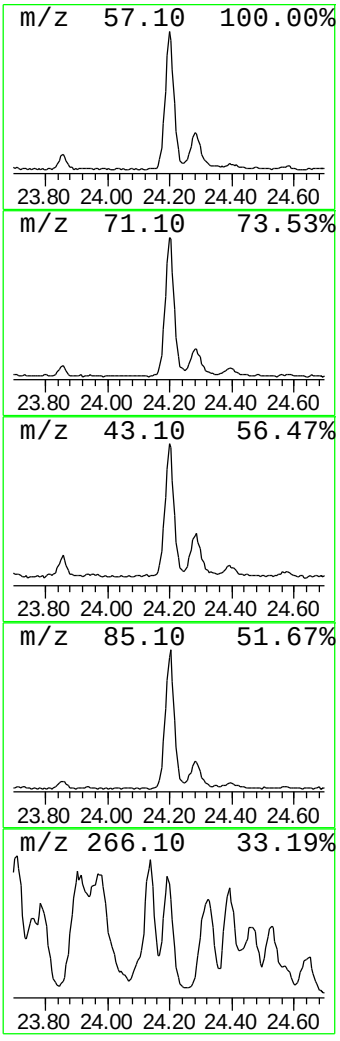
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.20	6.86 ng/ul	2031550	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	96
2	Octadecane	254	C18H38	000593-45-3	95
3	Eicosane	282	C20H42	000112-95-8	95
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	94
5	Heptadecane	240	C17H36	000629-78-7	93





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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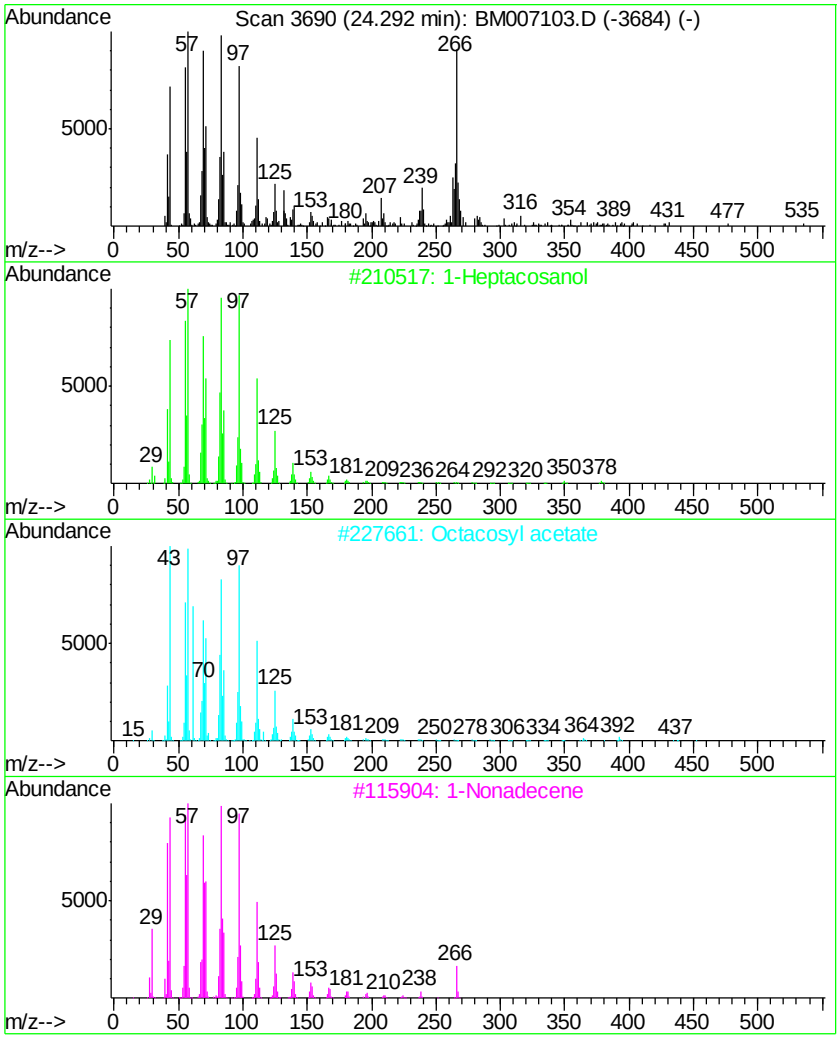
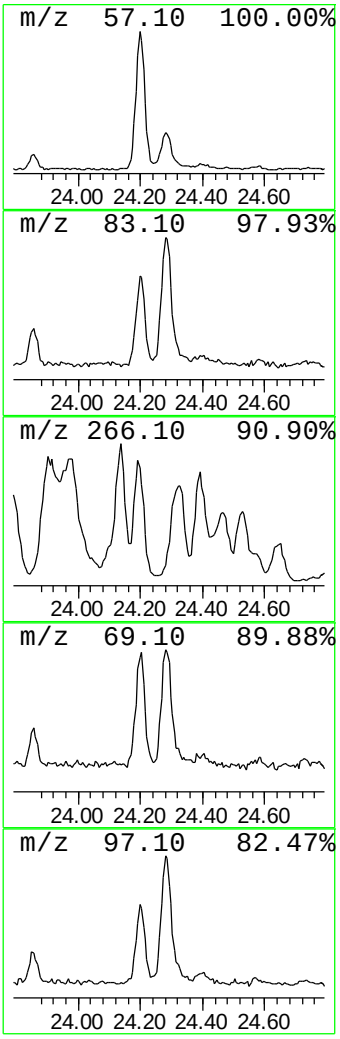
Peak Number 34 1-Heptacosanol Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.29	4.29 ng/ul	1269100	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptacosanol	396	C27H56O	002004-39-9	91
2	Octacosyl acetate	452	C30H60O2	018206-97-8	91
3	1-Nonadecene	266	C19H38	018435-45-5	91
4	Z-5-Nonadecene	266	C19H38	1000131-11-8	91
5	1-Hexacosanol	382	C26H54O	000506-52-5	90





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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

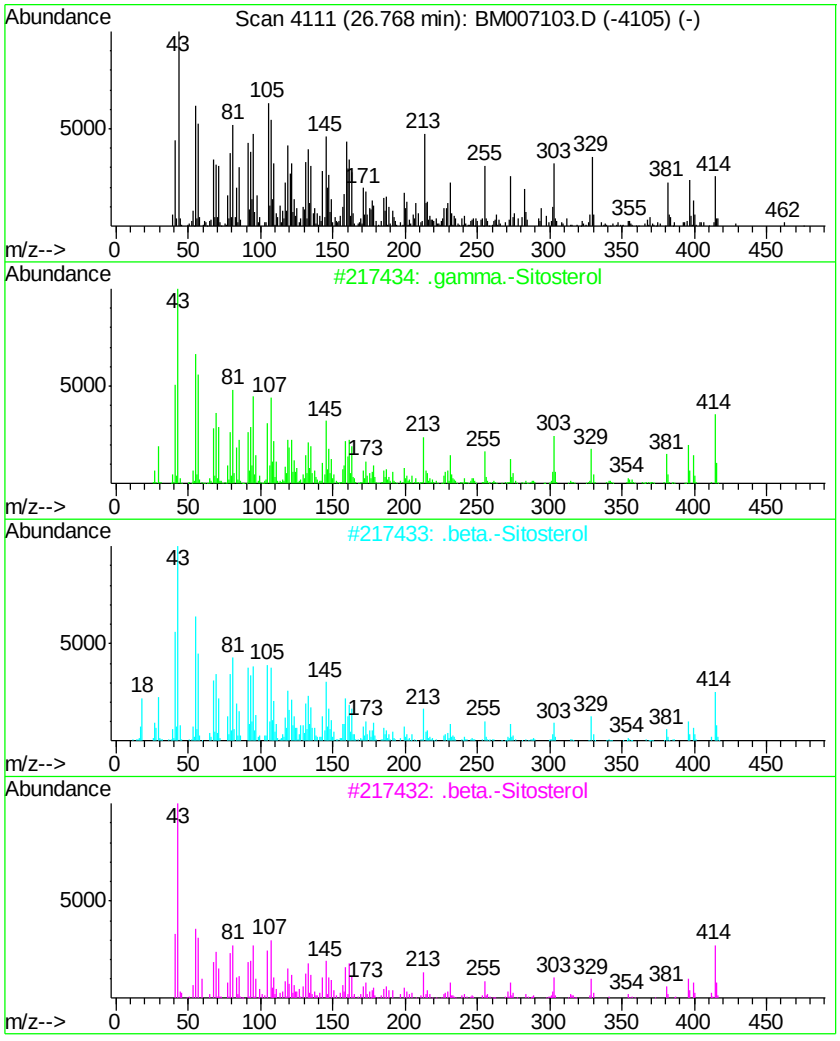
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

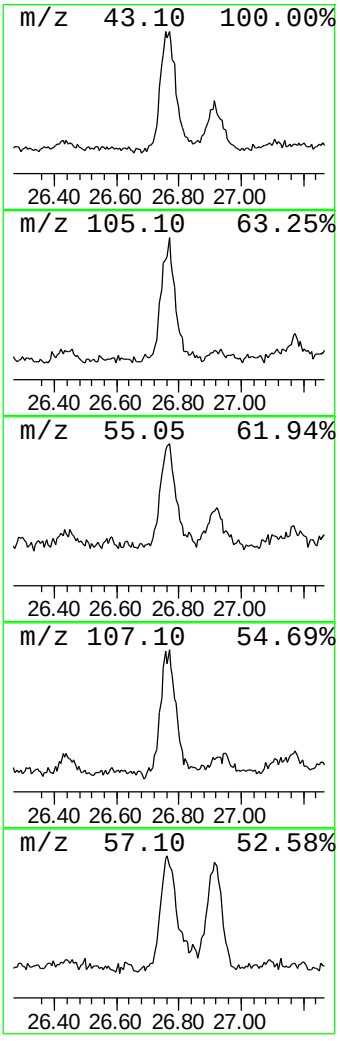
****

Peak Number 35 .gamma.-Sitosterol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
26.77	4.96 ng/ul	1468990	Perylene-d12	23.64

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	93
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	90
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	86
4	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	12
5	.gamma.-Sitosterol	414	C29H50O	000083-47-6	11





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081316\
Data File : BM007103.D
Acq On : 14 Aug 2016 12:14
Operator : UM/SJ
Sample : H4387-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : P003-SS003-0002-01

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
Hexanoic acid, 2-...	9.08	2.6	ng/ul	307647	1	7.81	2380810	20.0
(DEL) Alkane: Str...	15.30	2.1	ng/ul	438036	3	14.44	4253210	20.0
(DEL) Alkane: Str...	16.16	3.0	ng/ul	726419	4	17.18	4876960	20.0
(DEL) Alkane: Cyc...	17.57	5.6	ng/ul	1357110	4	17.18	4876960	20.0
Thioxanthene	17.76	2.1	ng/ul	508812	4	17.18	4876960	20.0
n-Hexadecanoic acid	18.08	5.9	ng/ul	1431830	4	17.18	4876960	20.0
Phenanthrene, 2-m...	18.10	7.1	ng/ul	1742180	4	17.18	4876960	20.0
Naphtho[2,3-b]nor...	18.24	9.6	ng/ul	2327950	4	17.18	4876960	20.0
Phenanthrene, 4-m...	18.29	4.6	ng/ul	1110990	4	17.18	4876960	20.0
1,2,4,8-Tetrameth...	18.56	3.0	ng/ul	719442	4	17.18	4876960	20.0
9,10-Anthracenedione	18.60	4.4	ng/ul	1066840	4	17.18	4876960	20.0
Phenanthrene, 2,7...	18.89	3.0	ng/ul	742106	4	17.18	4876960	20.0
Phenanthrene, 2,5...	18.97	9.8	ng/ul	2381490	4	17.18	4876960	20.0
Phenanthrene, 3,6...	19.03	5.6	ng/ul	1369670	4	17.18	4876960	20.0
Naphthalene, 1,2-...	19.07	2.3	ng/ul	555531	4	17.18	4876960	20.0
9,10-Dimethylanth...	19.12	6.2	ng/ul	1503780	4	17.18	4876960	20.0
Phenanthrene, 2,3...	19.68	2.4	ng/ul	1371360	5	21.37	11582700	20.0
11H-Benzo[b]fluorene	20.10	2.6	ng/ul	1513830	5	21.37	11582700	20.0
Pyrene, 1-methyl-	20.26	3.1	ng/ul	1817160	5	21.37	11582700	20.0
Pyrene, 4-methyl-	20.40	2.4	ng/ul	1382500	5	21.37	11582700	20.0
Fluoranthene, 2-m...	20.44	2.1	ng/ul	1246680	5	21.37	11582700	20.0
11H-Benzo[a]fluor...	20.84	2.5	ng/ul	1441670	5	21.37	11582700	20.0
Benzo[b]naphtho[2...	21.02	3.4	ng/ul	1988900	5	21.37	11582700	20.0
(DEL) Alkane: Cyc...	21.08	4.2	ng/ul	2427810	5	21.37	11582700	20.0
Benz[a]anthracene...	21.92	3.5	ng/ul	2006890	5	21.37	11582700	20.0
(DEL) Alkane: Cyc...	21.98	5.6	ng/ul	3221400	5	21.37	11582700	20.0
(DEL) Alkane: Str...	24.20	6.9	ng/ul	2031550	6	23.64	5922860	20.0
1-Heptacosanol	24.29	4.3	ng/ul	1269100	6	23.64	5922860	20.0
.gamma.-Sitosterol	26.77	5.0	ng/ul	1468990	6	23.64	5922860	20.0