LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.225	487	491	502	rVB	332803	414935	12.49%	0.755%
2	5.613	552	557	560	rBV	2776735	2862430	86.16%	5.207%
3	6.613	721	727	730	rBV	2945771	3044030	91.63%	5.538%
4	6.754	746	751	754	rBV	3200699	3070219	92.42%	5.585%
5	6.984	786	790	793	rBV	1211749	967399	29.12%	1.760%
6	7.142	812	817	820	rVB	2537431	2256655	67.93%	4.105%
7	7.548	880	886	889	rBV	2020934	1926435	57.99%	3.505%
8	8.266	1003	1008	1011	rBV	1372123	1216809	36.63%	2.214%
9	8.289	1011	1012	1015	rVB	158949	79940	2.41%	0.145%
10	8.977	1127	1129	1134	rVB	87853	82039	2.47%	0.149%
11	9.077	1143	1146	1149	rBV	86953	85261	2.57%	0.155%
12	9.342	1185	1191	1194	rBV	3811364	3322160	100.00%	6.044%
13	9.442	1205	1208	1212	rVB2	54340	55055	1.66%	0.100%
14	9.613	1232	1237	1241	rVB3	47530	66974	2.02%	0.122%
15	9.683	1245	1249	1251	rVV	106790	102694	3.09%	0.187%
16	9.730	1254	1257	1264	rVV	567399	458909	13.81%	0.835%
17	9.801	1266	1269	1274	rVB3	46687	63744	1.92%	0.116%
18	9.889	1280	1284	1289	rVB2	133433	126301	3.80%	0.230%
19	10.030	1300	1308	1311	rBV	1426263	1350306	40.65%	2.456%
20	10.060	1311	1313	1316	rVB	245972	185458	5.58%	0.337%
21	10.183	1329	1334	1338	rBV4	38754	61326	1.85%	0.112%
22	10.230	1338	1342	1345	rVV2	215362	209458	6.30%	0.381%
23	10.442	1371	1378	1382	rBV6	82731	129711	3.90%	0.236%
24	10.577	1397	1401	1405	rVB2	302121	284149	8.55%	0.517%
25	10.642	1406	1412	1413	rBV3	65137	82733	2.49%	0.151%
26	10.660	1413	1415	1418	rVB3	60783	53932	1.62%	0.098%
27	10.730	1425	1427	1431	rVB	102541	106017	3.19%	0.193%
28	10.819	1436	1442	1446	rBV	2097751	1927351	58.01%	3.506%
29	10.913	1455	1458	1461	rBV3	73009	98485	2.96%	0.179%
30	11.124	1488	1494	1496	rBV4	102722	145398	4.38%	0.265%
31	11.154	1496	1499	1502	rVV	60771	68282	2.06%	0.124%
32	11.254	1511	1516	1517	rBV4	70286	89677	2.70%	0.163%
33	11.271	1517	1519	1524	rVV4	79025	87138	2.62%	0.159%
34	11.324	1524	1528	1531	rVV	162536	152113	4.58%	0.277%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.366	1531	1535	1541	rVV5	114029	193000	5.81%	0.351%
36	11.419	1541	1544	1547	rVB	190383	182009	5.48%	0.331%
37	11.524	1555	1562	1563	rBV	1251588	1194610	35.96%	2.173%
38	11.548	1563	1566	1569	rVV	2643855	2284105	68.75%	4.155%
39	11.595	1569	1574	1577	rVV	582295	531424	16.00%	0.967%
40	11.624	1577	1579	1583	rVB2	54087	66961	2.02%	0.122%
41	11.748	1593	1600	1603	rBV2	208089	240768	7.25%	0.438%
42	11.848	1615	1617	1621	rVB2	91790	85324	2.57%	0.155%
43	12.024	1642	1647	1649	rBV	441218	394253	11.87%	0.717%
44	12.048	1649	1651	1655	rVB	490788	450173	13.55%	0.819%
45	12.101	1656	1660	1662	rBV	168536	166297	5.01%	0.303%
46	12.136	1662	1666	1668	rVV2	534144	594351	17.89%	1.081%
47	12.160	1668	1670	1674	rVB	277165	224713	6.76%	0.409%
48	12.201	1674	1677	1679	rBV4	59360	63221	1.90%	0.115%
49	12.318	1693	1697	1699	rVV	285517	264680	7.97%	0.482%
50	12.342	1699	1701	1705	rVB2	220569	201002	6.05%	0.366%
51	12.466	1717	1722	1725	rBV2	121474	129606	3.90%	0.236%
52	12.495	1725	1727	1729	rVV	95769	79799	2.40%	0.145%
53	12.524	1729	1732	1734	rVV	81360	74913	2.25%	0.136%
54	12.571	1736	1740	1744	rVV	213446	283357	8.53%	0.515%
55	12.607	1744	1746	1749	rVV3	108624	147194	4.43%	0.268%
56	12.660	1753	1755	1760	rVB2	189885	211588	6.37%	0.385%
57	12.742	1765	1769	1772	rVB	2680682	2454715	73.89%	4.466%
58	12.801	1777	1779	1782	rVB2	93115	67249	2.02%	0.122%
59	12.865	1786	1790	1792	rBV4	68959	88112	2.65%	0.160%
60	12.895	1792	1795	1801	rVB4	135657	217209	6.54%	0.395%
61	12.977	1805	1809	1813	rVB	2114370	2319340	69.81%	4.219%
62	13.013	1813	1815	1820	rVB2	168795	189383	5.70%	0.345%
63	13.107	1823	1831	1834	rBV	2793854	2662434	80.14%	4.844%
64	13.183	1839	1844	1848	rBV3	193201	316410	9.52%	0.576%
65	13.271	1856	1859	1860	rBV3	136596	136032	4.09%	0.247%
66	13.295	1860	1863	1866	rVB2	418559	376152	11.32%	0.684%
67	13.365	1872	1875	1877	rVV	259598	254311	7.65%	0.463%
68	13.401	1877	1881	1884	rVV2	262065	299615	9.02%	0.545%
69	13.495	1894	1897	1899	rBV	169192	126978	3.82%	0.231%
70	13.524	1899	1902	1905	rVB2	164290	147422	4.44%	0.268%
71	13.807	1946	1950	1955	rVB	182591	213680	6.43%	0.389%

LSC Area Percent Report

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Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.918	1964	1969	1971	rBV2	241734	310037	9.33%	0.564%
73	13.948	1971	1974	1976	rVV	230911	197937	5.96%	0.360%
74	13.983	1976	1980	1983	rVV2	218167	365847	11.01%	0.666%
75	14.012	1983	1985	1988	rVB	227640	181416	5.46%	0.330%
76	14.089	1994	1998	2002	rBV3	87403	158094	4.76%	0.288%
77	14.165	2004	2011	2015	rBV3	1531191	2572108	77.42%	4.679%
78	14.201	2015	2017	2024	rVB	1010567	897726	27.02%	1.633%
79	14.277	2028	2030	2033	rBV	180068	161262	4.85%	0.293%
80	14.360	2042	2044	2046	rVB2	82588	57359	1.73%	0.104%
81	14.395	2046	2050	2053	rBV3	101707	129782	3.91%	0.236%
82	14.518	2069	2071	2073	rBV3	76314	62669	1.89%	0.114%
83	14.554	2073	2077	2080	rVV	239089	310823	9.36%	0.565%
84	14.589	2080	2083	2086	rVB5	137217	139769	4.21%	0.254%
85	14.654	2091	2094	2097	rVV3	185442	237083	7.14%	0.431%
86	14.683	2097	2099	2101	rVV2	146748	140515	4.23%	0.256%
87	14.707	2101	2103	2107	rVB4	149342	142770	4.30%	0.260%
88	14.877	2129	2132	2136	rBV6	55031	96457	2.90%	0.175%
89	15.148	2175	2178	2182	rVB6	72005	91616	2.76%	0.167%
90	15.254	2191	2196	2199	rBV	850510	1358690	40.90%	2.472%
91	15.365	2211	2215	2218	rVB2	183427	203973	6.14%	0.371%
92	15.459	2228	2231	2234	rBV5	78710	111618	3.36%	0.203%
93	15.577	2246	2251	2257	rVB	497501	717651	21.60%	1.306%
94	15.648	2258	2263	2268	rVB	736015	937991	28.23%	1.706%
95	15.712	2269	2274	2277	rVV	608132	859624	25.88%	1.564%
96	15.742	2277	2279	2285	rVB	272850	339334	10.21%	0.617%
97	17.283	2536	2541	2548	rVB3	253969	550559	16.57%	1.002%
98	17.477	2572	2574	2580	rVB6	72444	97720	2.94%	0.178%
99	17.765	2618	2623	2629	rBV3	168144	297623	8.96%	0.541%
100	18.012	2663	2665	2671	rVB6	46620	75139	2.26%	0.137%

Sum of corrected areas: 54969105

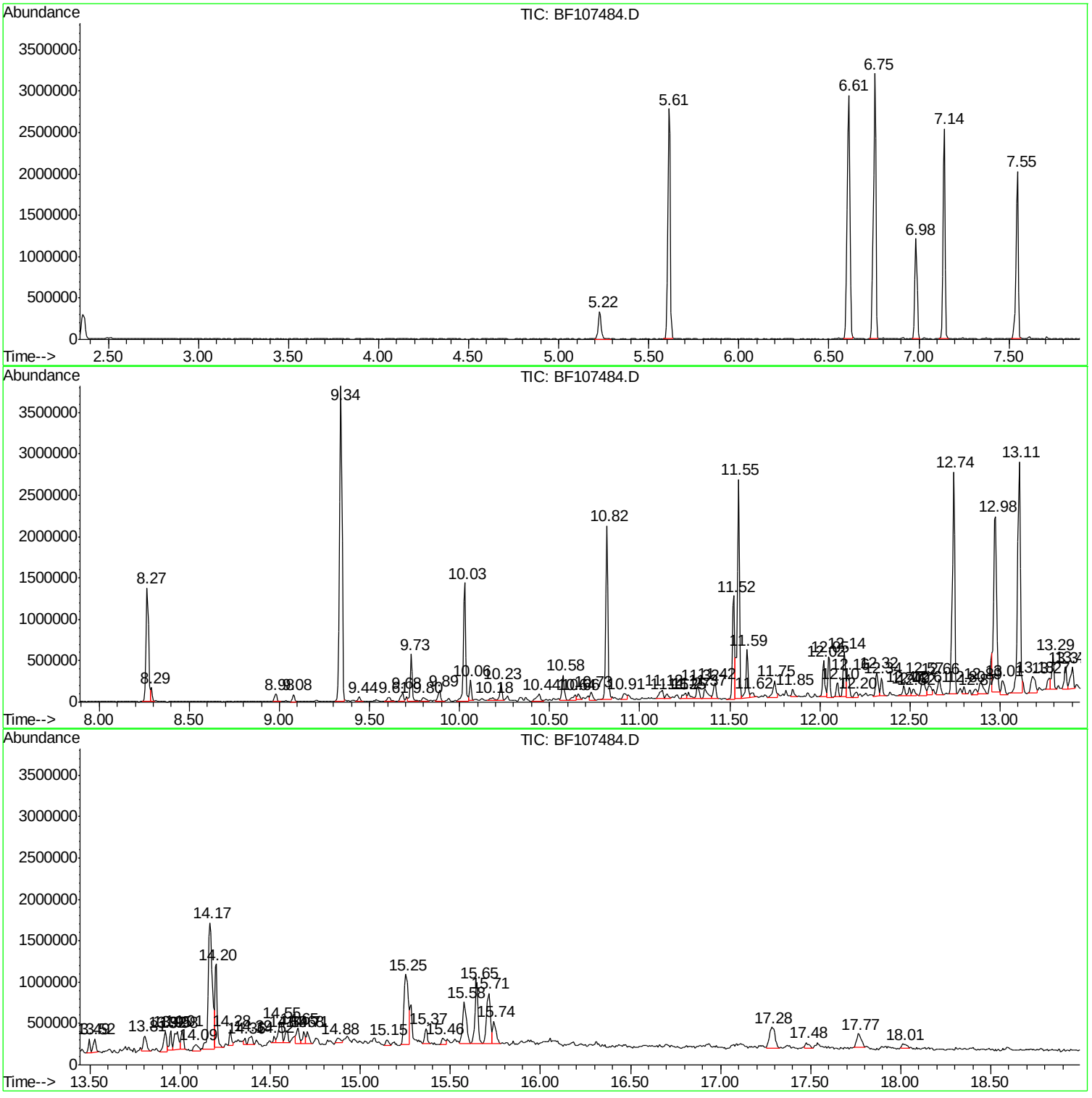
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

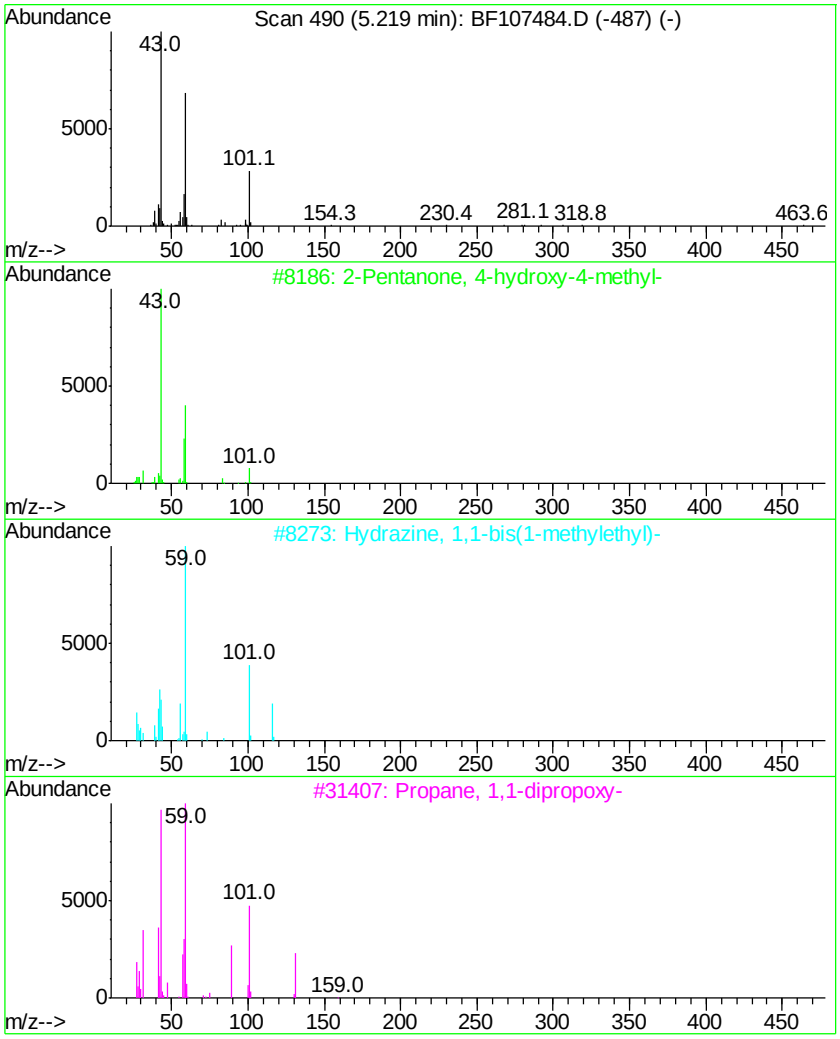
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

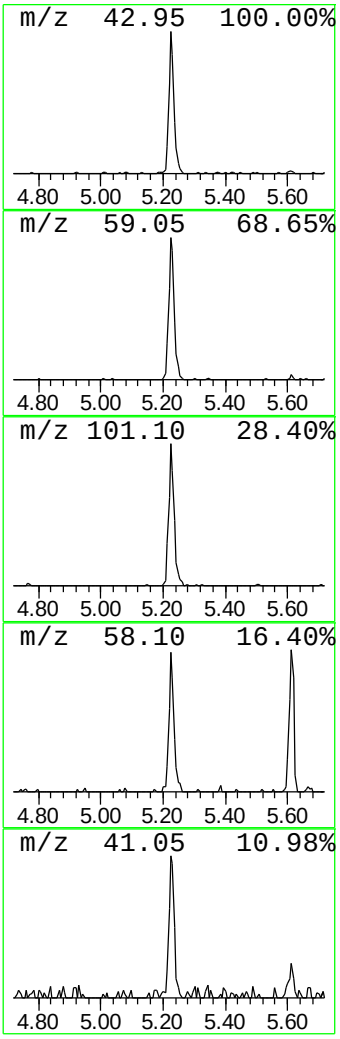
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.22	8.58 ng	414935	1,4-Dichlorobenzene-d4	6.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	47
3	Propane, 1,1-dipropoxy-	160	C9H20O2	004744-11-0	38
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	38
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

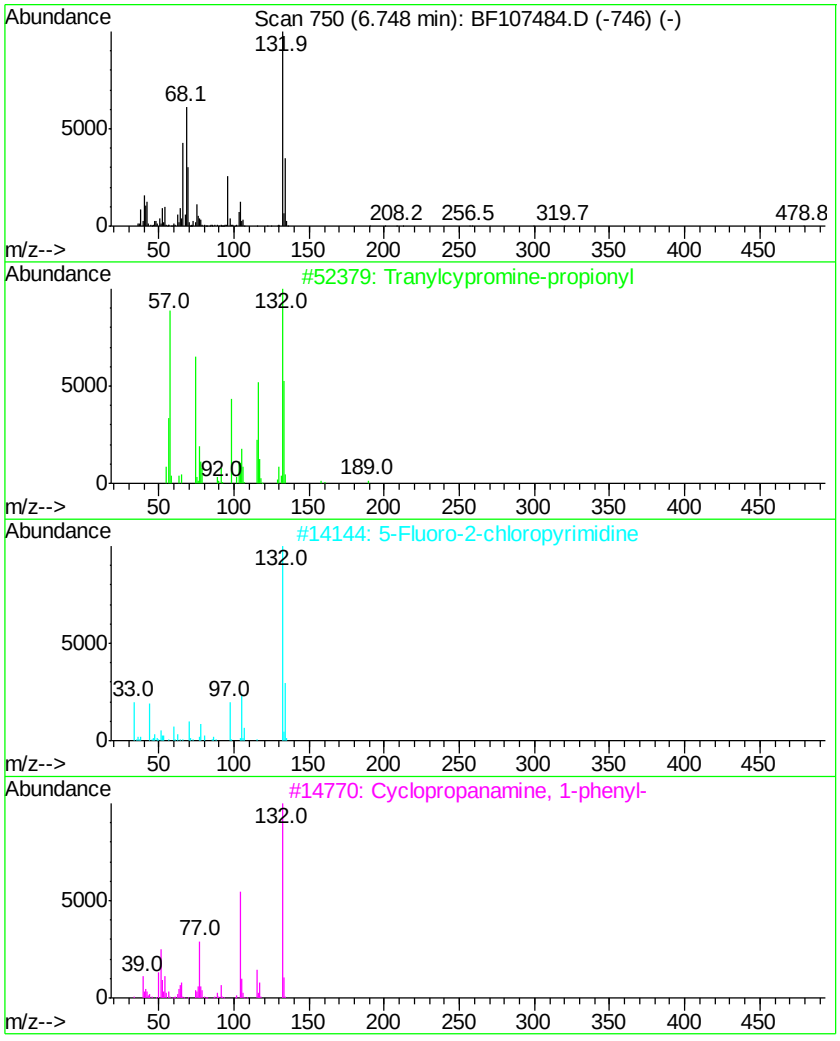
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

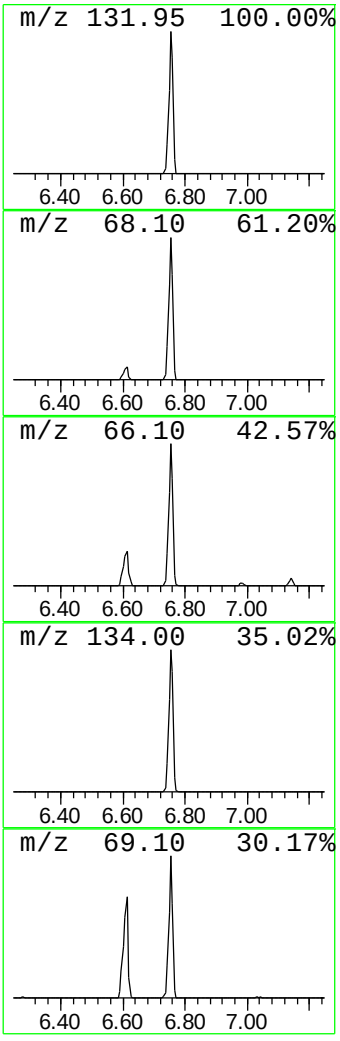
****

Peak Number 2 unknown6.75 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.75	63.47 ng	3070220	1,4-Dichlorobenzene-d4	6.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	22
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	14
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	12
5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	12





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Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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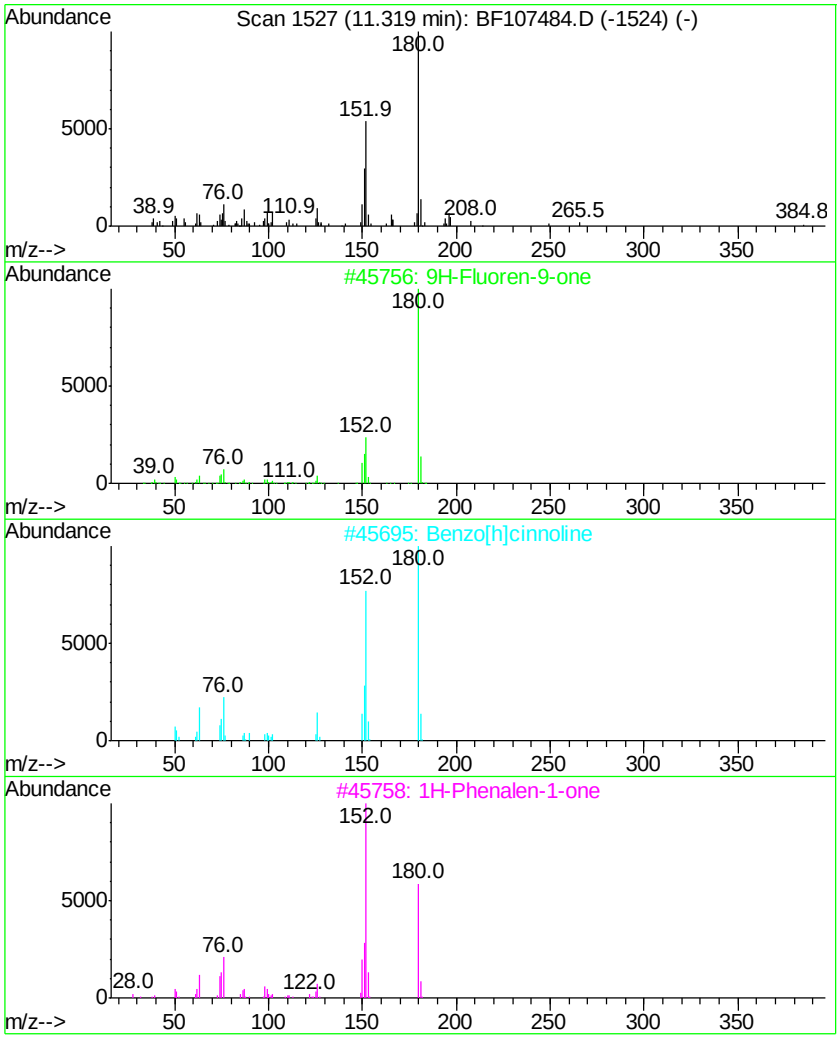
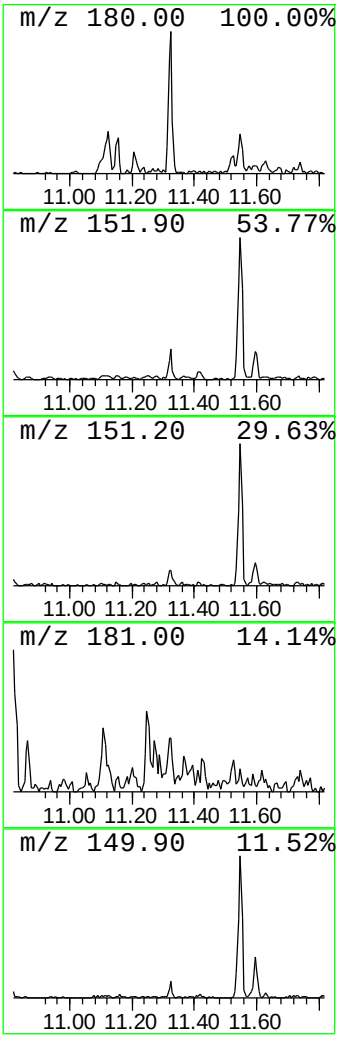
Peak Number 4 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	2.55 ng	152113	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	81
4	3-Ethoxypyrazolo[3,4-d]pyrimidin...	180	C7H8N4O2	111375-29-2	53
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	52





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

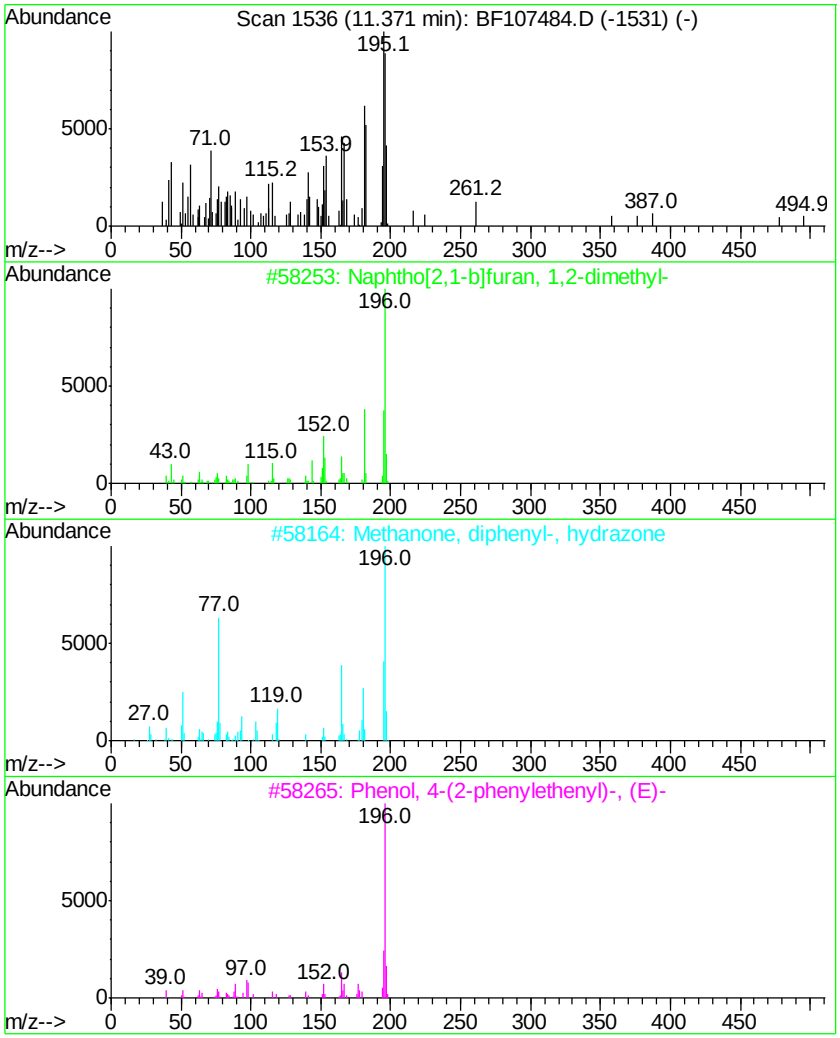
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

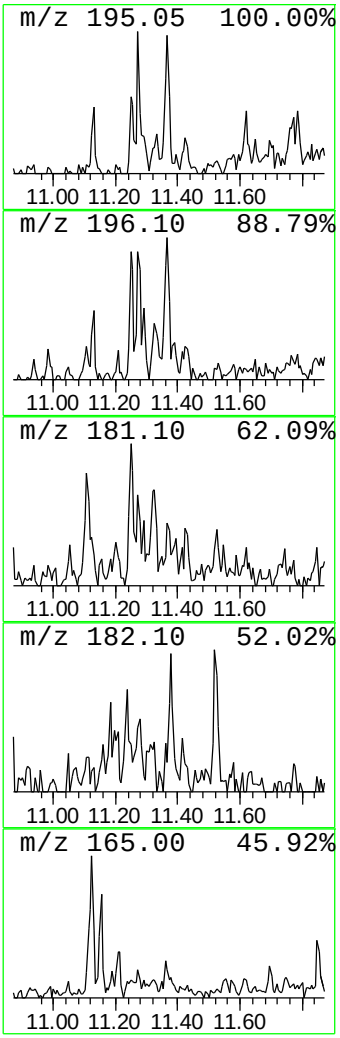
****

Peak Number 5 unknown11.37 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	3.23 ng	193000	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	49
2	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	46
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	43
4	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	43
5	Perimidine, 2-ethyl-	196	C13H12N2	028478-13-9	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

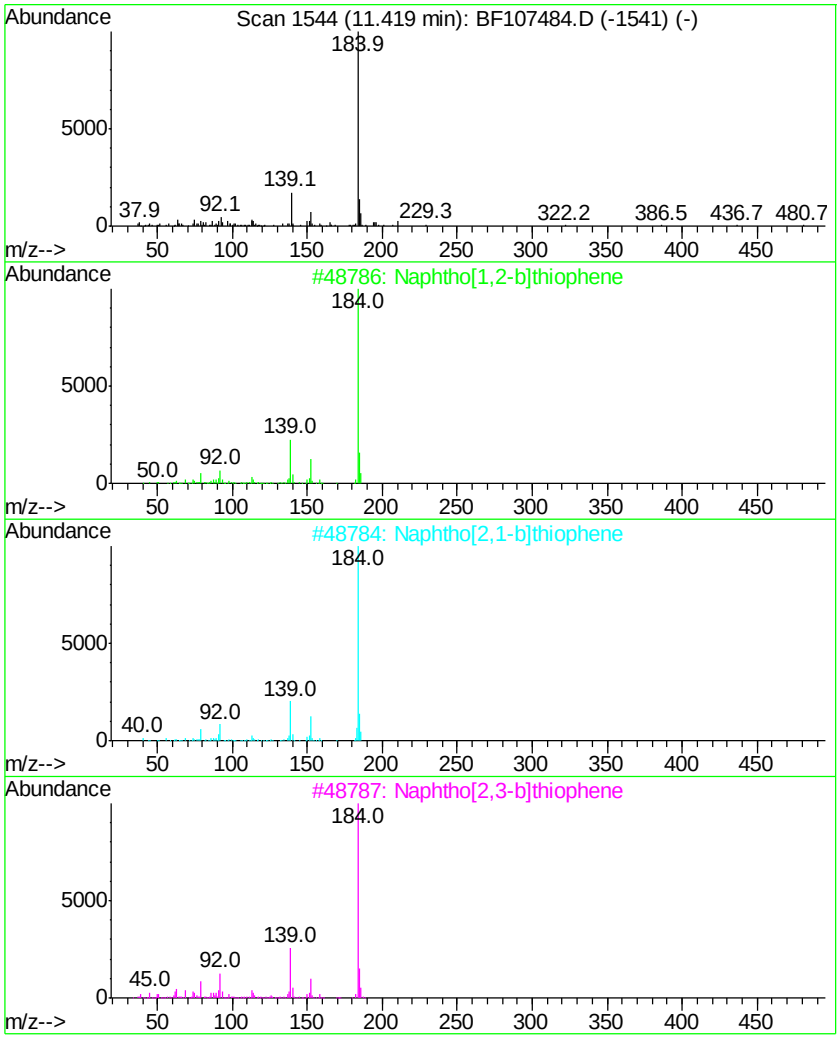
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

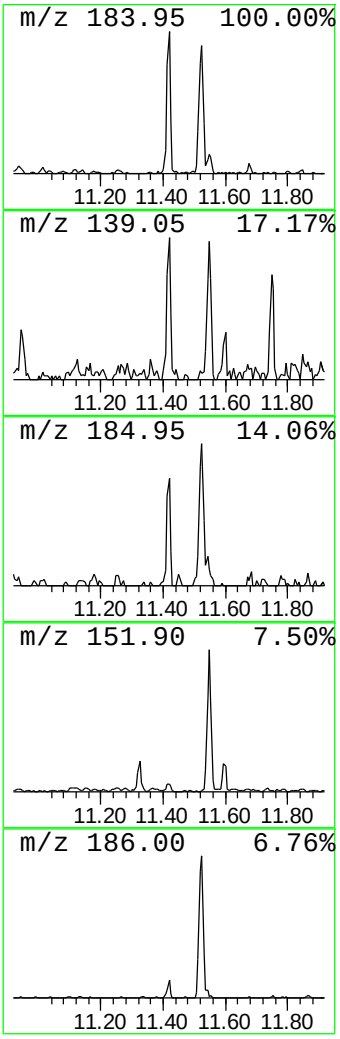
****

Peak Number 6 Naphtho[1,2-b]thiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.42	3.05 ng	182009	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	90
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
4	Dibenzothiophene	184	C12H8S	000132-65-0	87
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	86





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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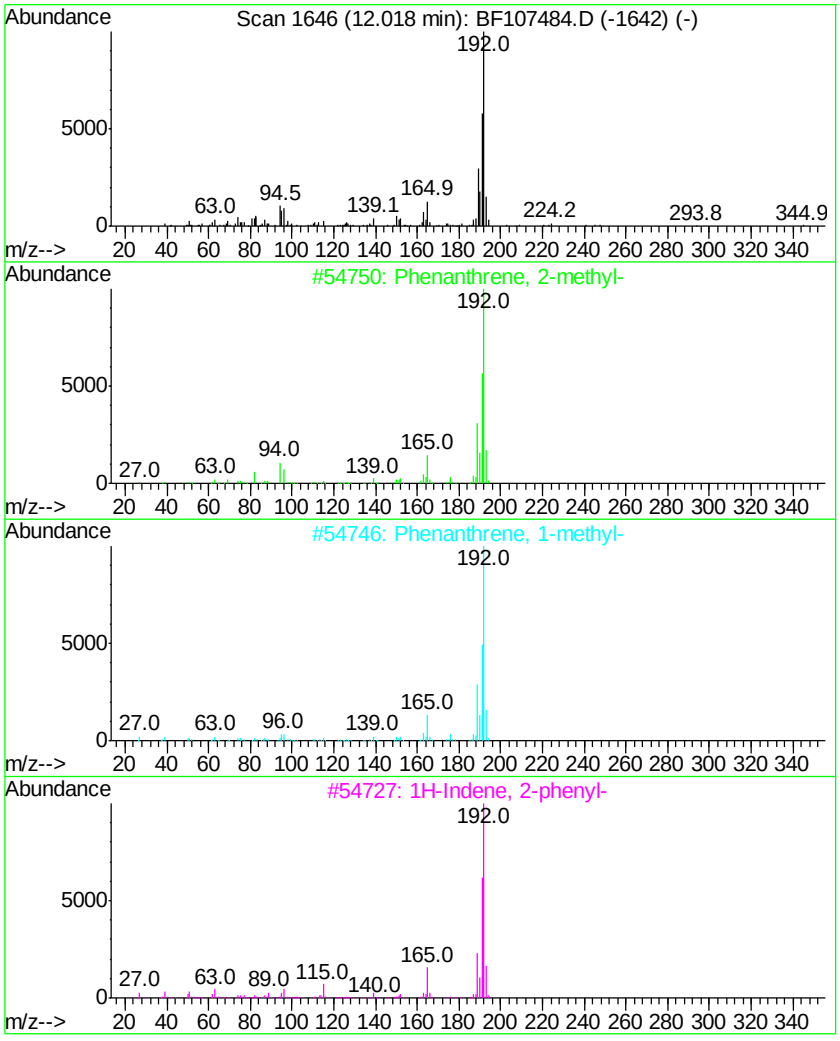
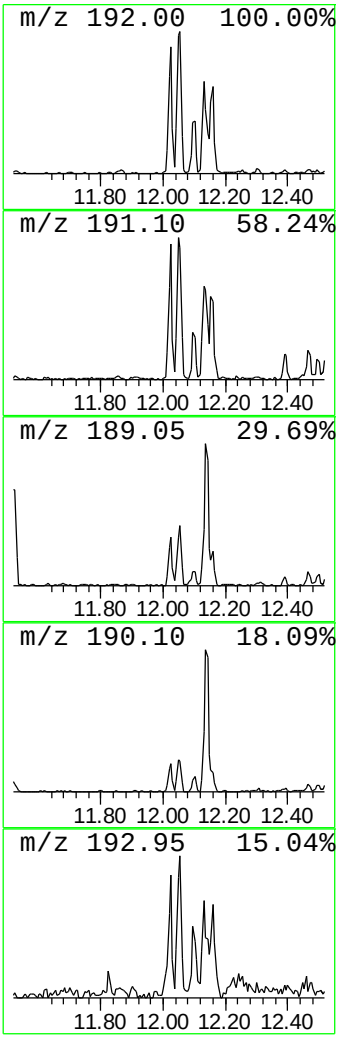
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	6.60 ng	394253	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87





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Sample : J4016-08
Misc :
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ClientSampleId : SB3-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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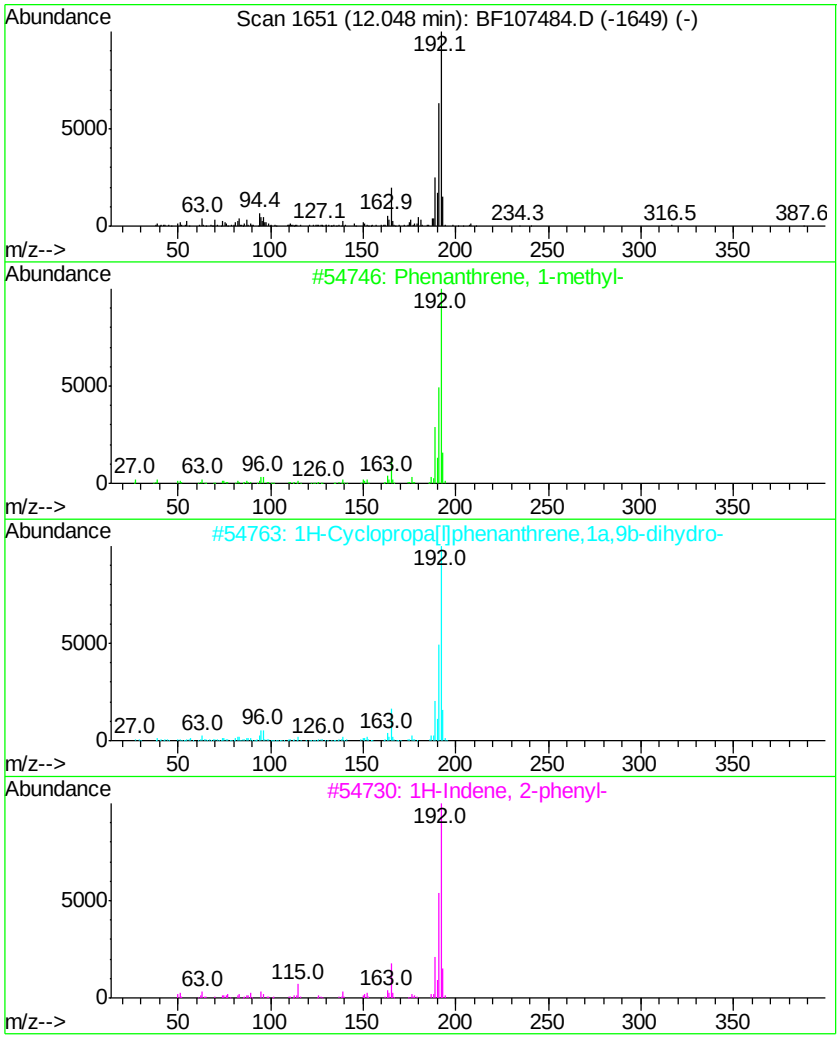
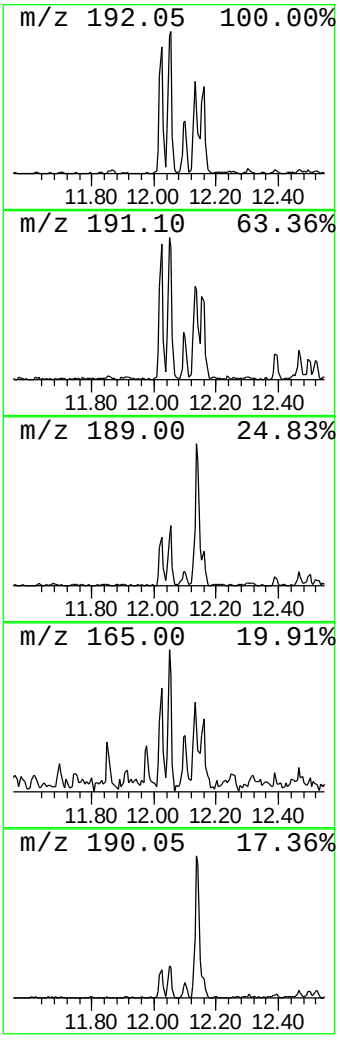
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	7.54 ng	450173	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	89
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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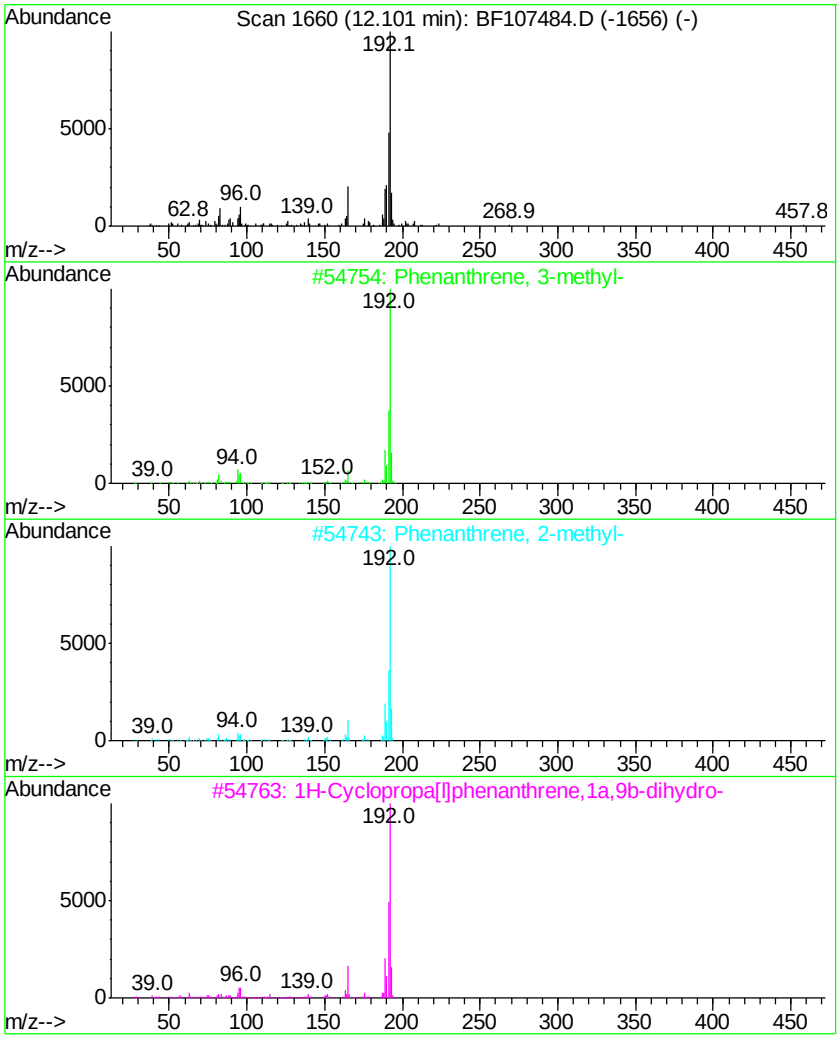
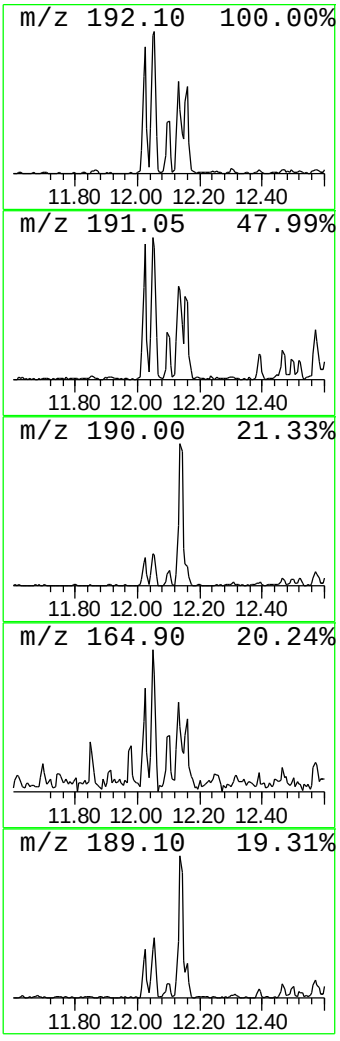
Peak Number 9 Phenanthrene, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	2.78 ng	166297	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	83
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	81
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	76





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Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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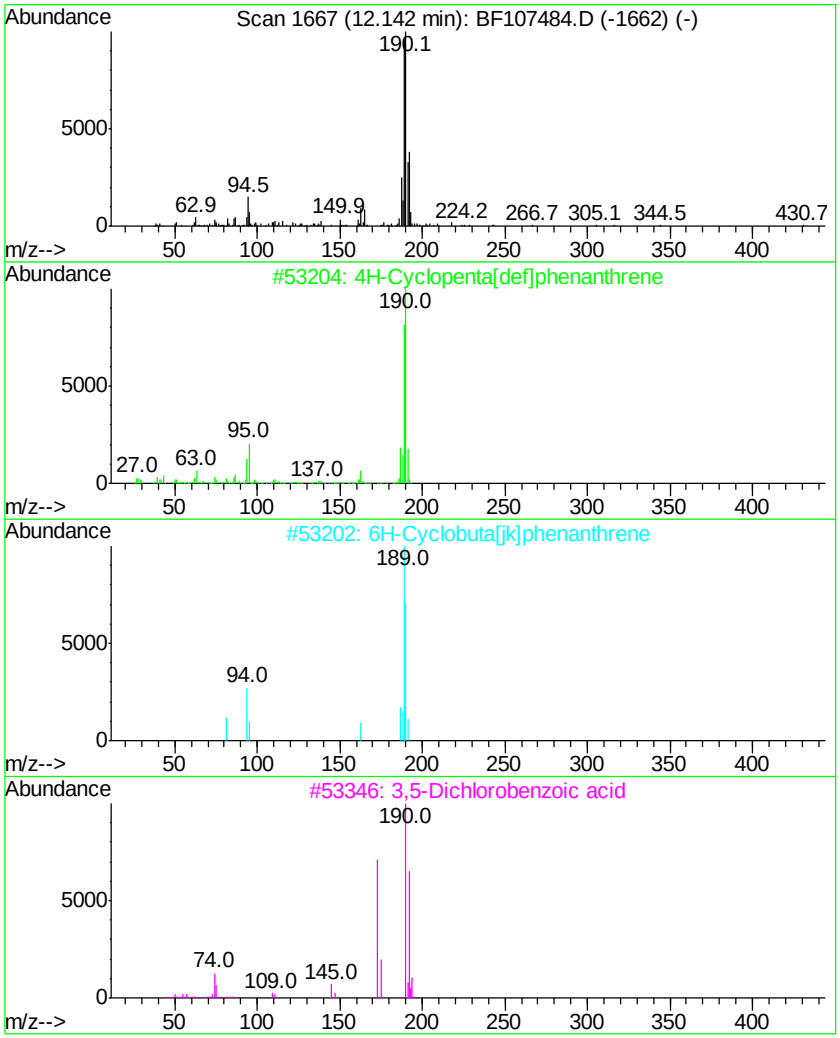
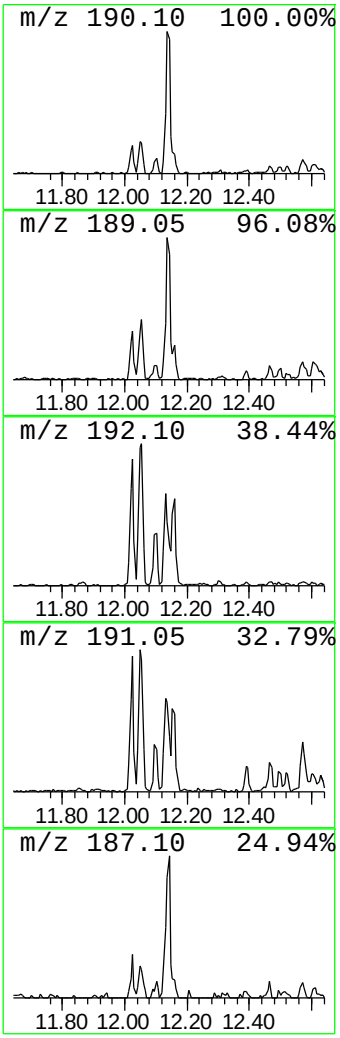
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	9.95 ng	594351	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	3,5-Dichlorobenzoic acid	190	C7H4Cl2O2	000051-36-5	27
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	18
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	14





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Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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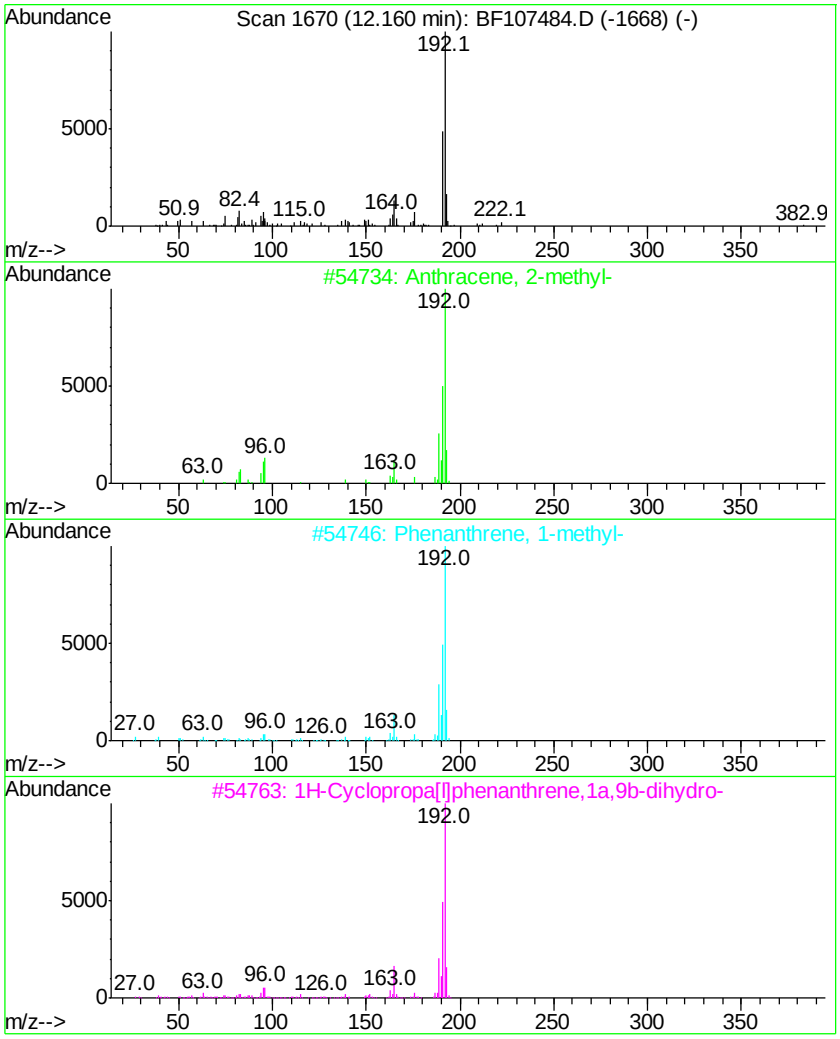
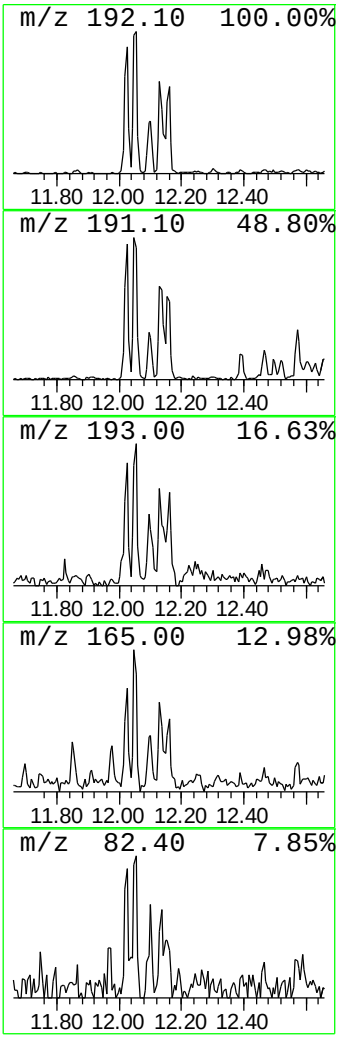
Peak Number 11 Anthracene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	3.76 ng	224713	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	86
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86





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Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId : SB3-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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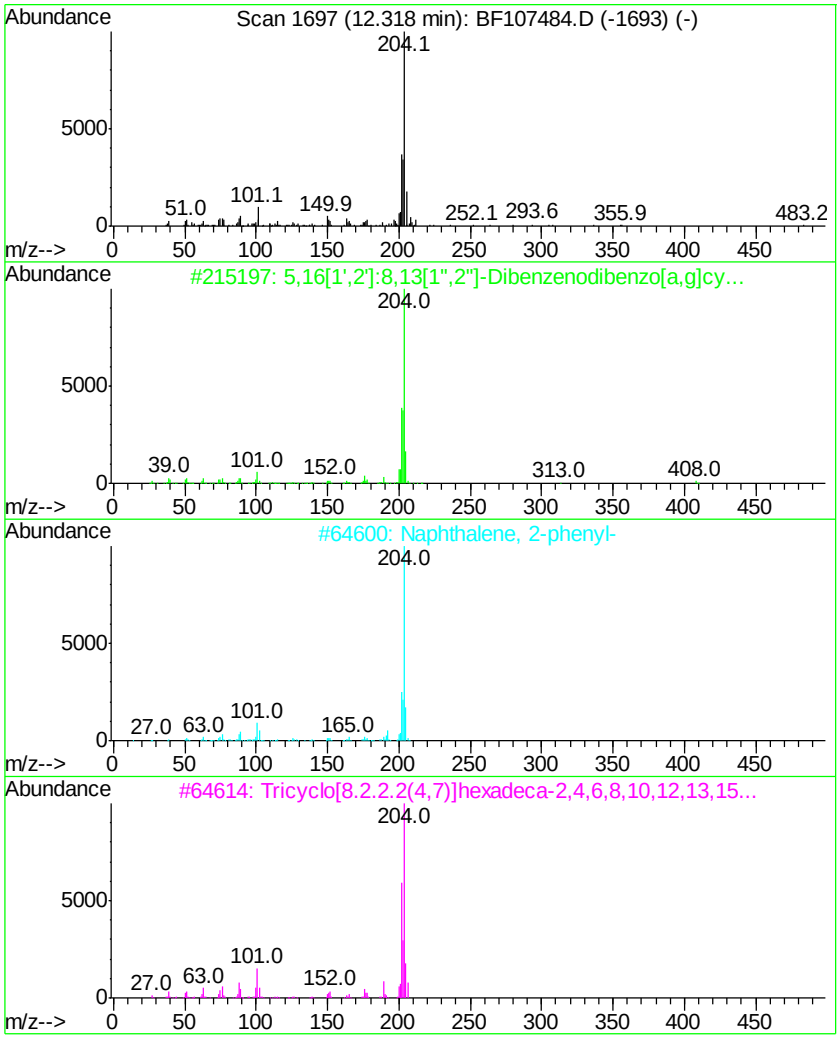
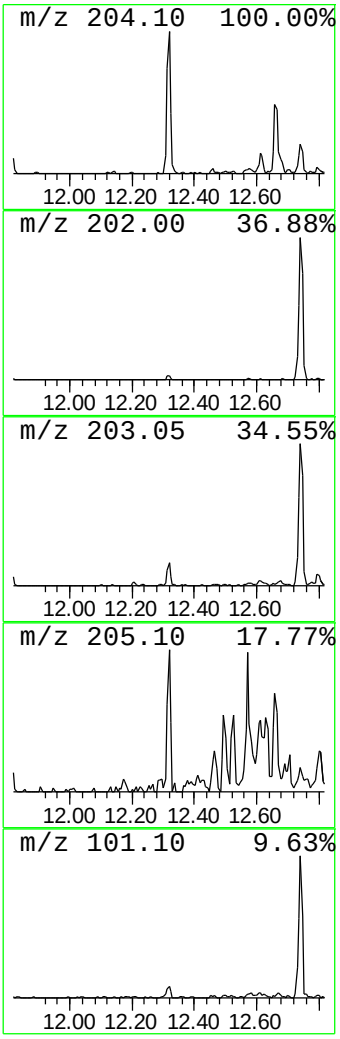
Peak Number 12 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	4.43 ng	264680	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	74
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52





Library Search Compound Report

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Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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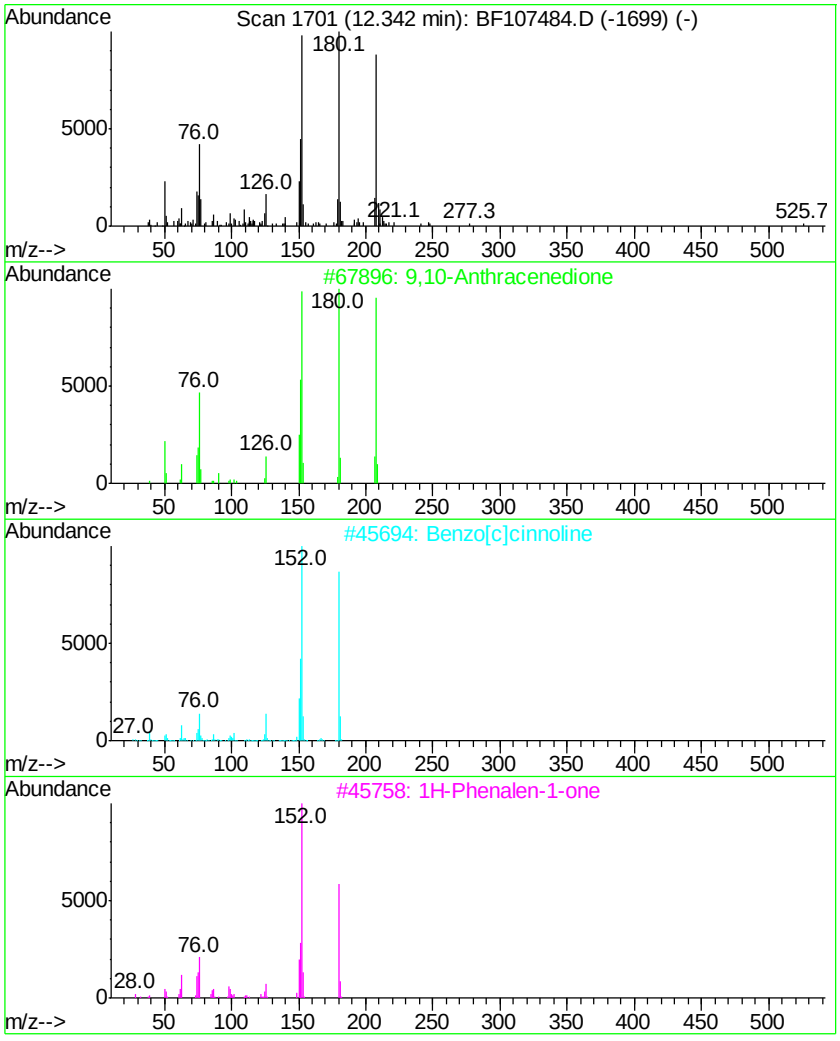
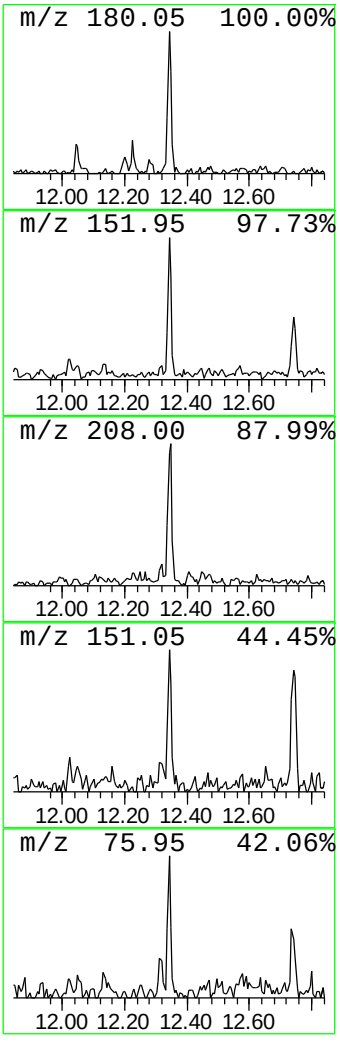
Peak Number 13 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	3.37 ng	201002	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	49
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	43





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Sample : J4016-08
Misc :
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Instrument : BNA_F
ClientSampleId : SB3-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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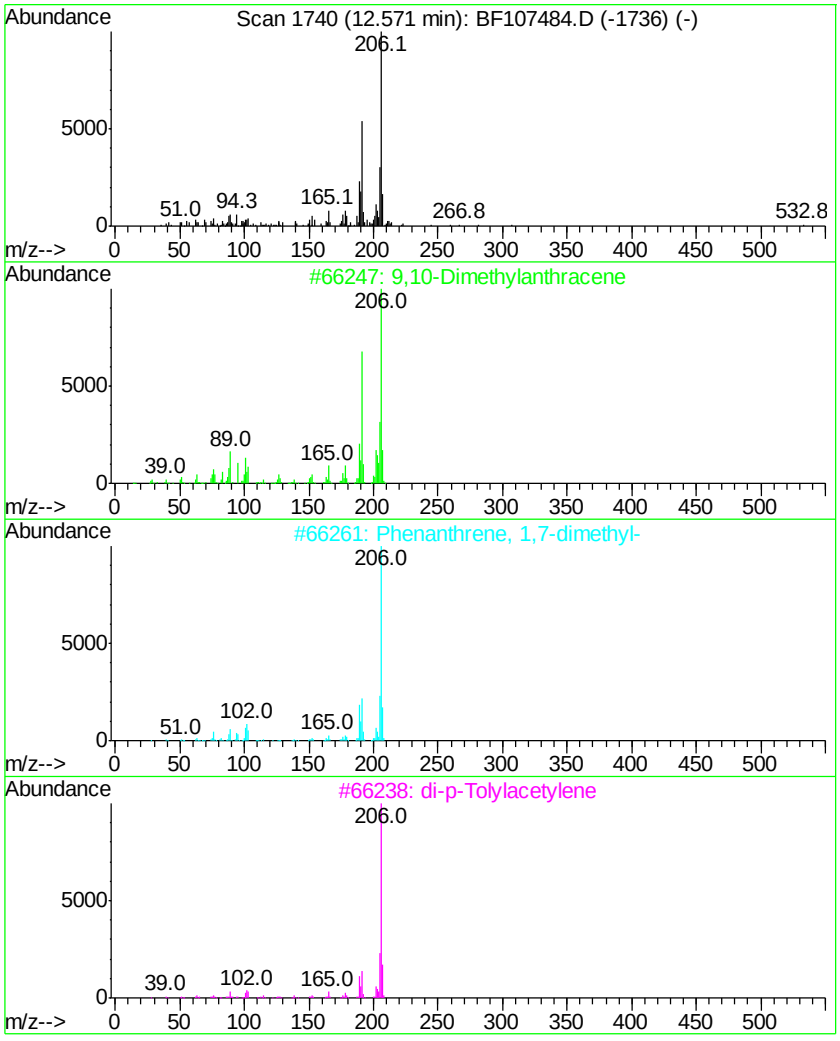
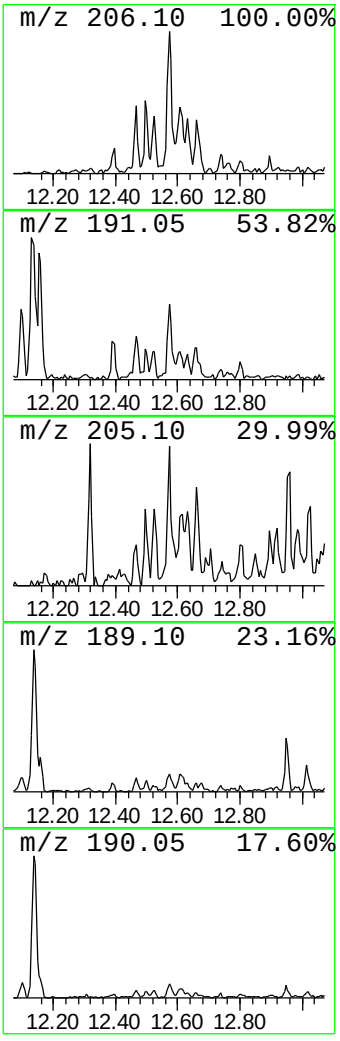
Peak Number 14 9,10-Dimethylanthracene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	4.74 ng	283357	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	87
4	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	86
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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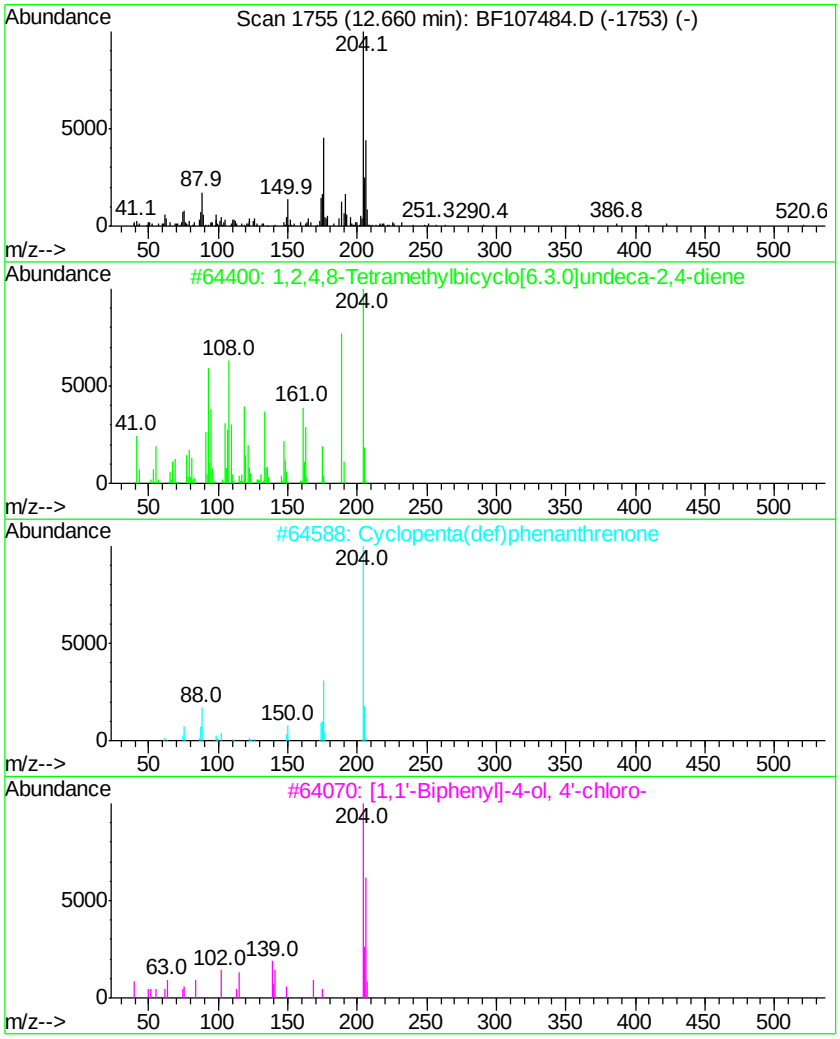
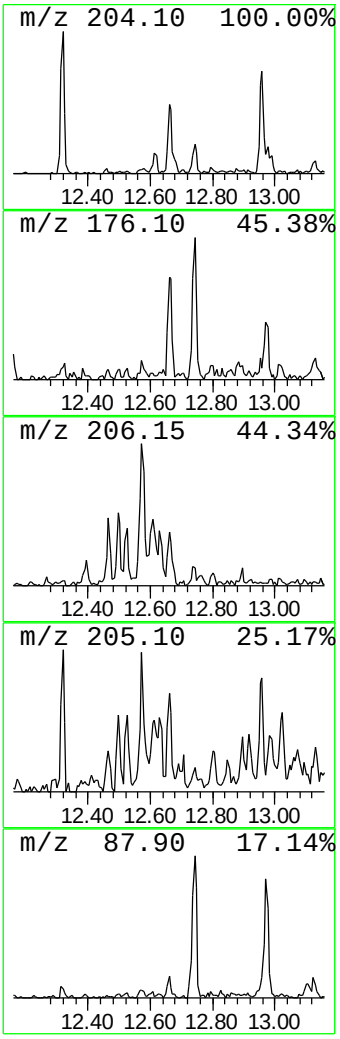
Peak Number 15 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.66	3.54 ng	211588	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
2	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	70
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	50
4	[1,1'-Biphenyl-4-ol], 2-chloro-	204	C12H9ClO	023719-22-4	47
5	Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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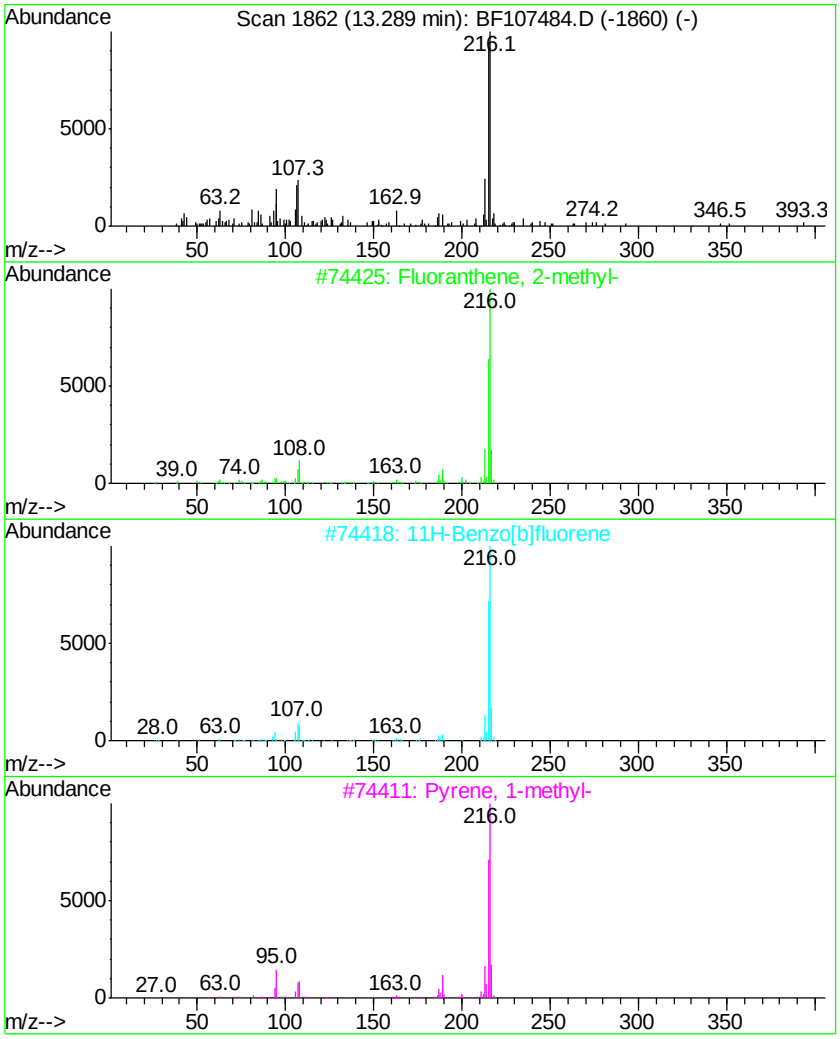
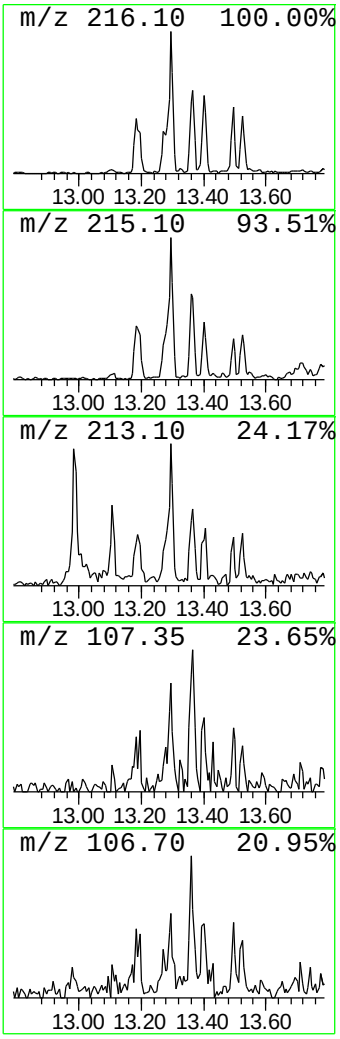
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	2.92 ng	376152	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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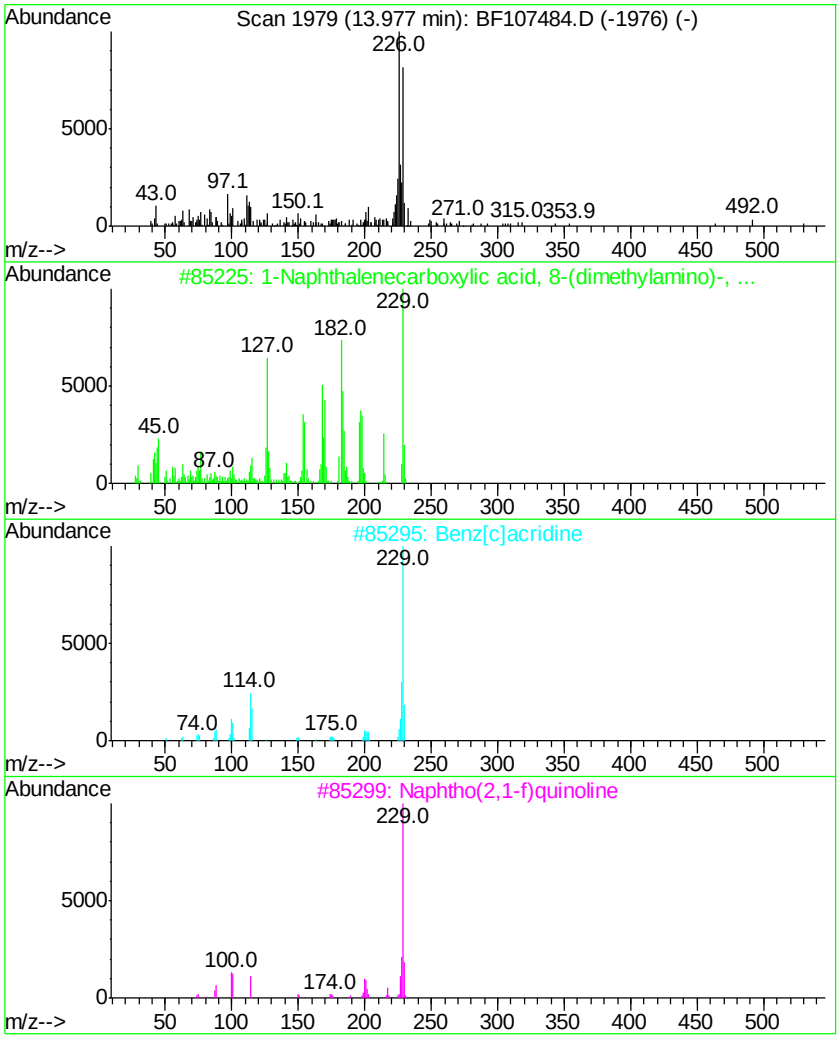
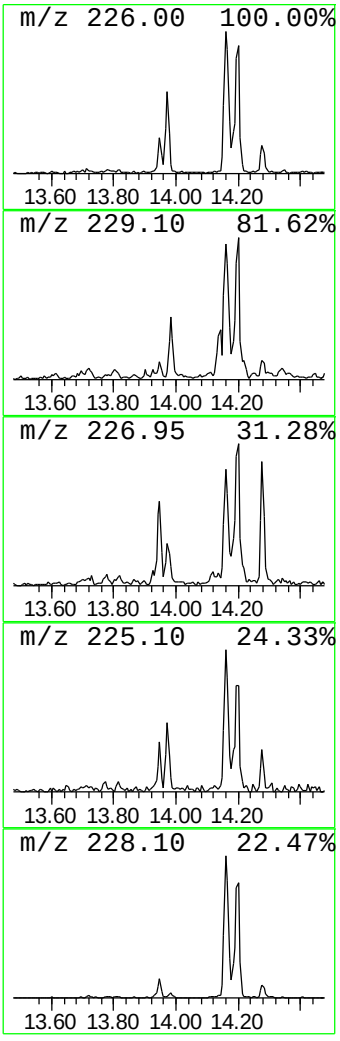
Peak Number 17 1-Naphthalenecarboxylic aci... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.98	2.84 ng	365847	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid, 8-...	229	C14H15NO2	069674-55-1	93
2	Benz[c]acridine	229	C17H11N	000225-51-4	59
3	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	53
4	Naphtho(2,3-h)quinoline	229	C17H11N	000084-56-0	53
5	Thiazole, 2-amino-4-(1H-indol-3-...	229	C12H11N3S	1000304-18-3	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

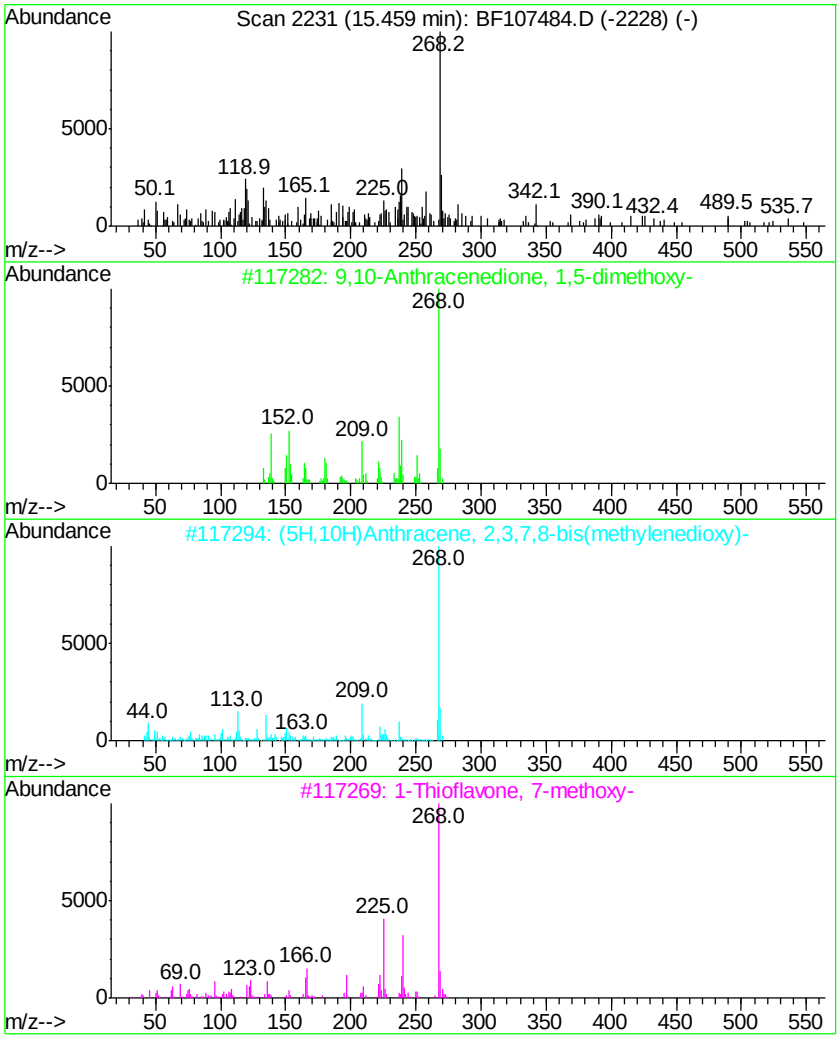
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

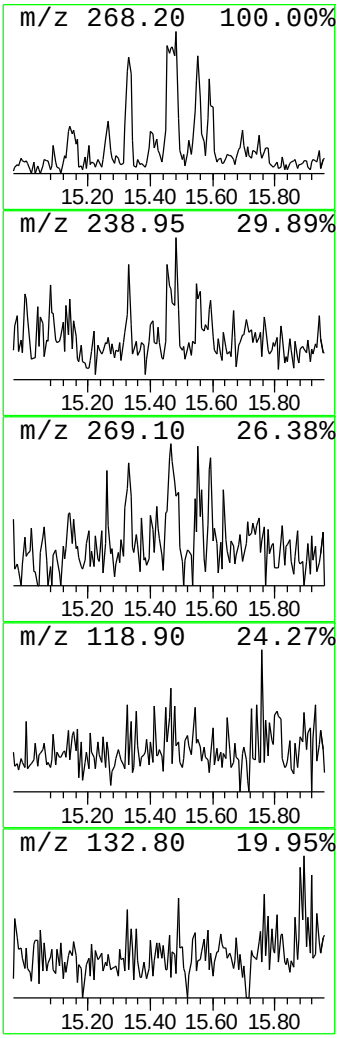
****

Peak Number 19 9,10-Anthracenedione, 1,5-d... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.46	2.60 ng	111618	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	59
2	(5H,10H)Anthracene, 2,3,7,8-bis(...	268	C16H12O4	1000116-12-4	55
3	1-Thioflavone, 7-methoxy-	268	C16H12O2S	000789-78-6	49
4	Tricyclo[3.3.1.1<3,7>]decane,tri...	268	C20H28	030541-56-1	49
5	2,4-Diamino-6-phenylthioquinazoline	268	C14H12N4S	051123-94-5	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071818\
Data File : BF107484.D
Acq On : 18 Jul 2018 18:13
Operator : JU/SJ
Sample : J4016-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB3-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
2-Pentanone, 4-hy...	5.22	8.6	ng	414935	1	6.98	967399	20.0
unknown6.75	6.75	63.5	ng	3070220	1	6.98	967399	20.0
9H-Fluoren-9-one	11.32	2.5	ng	152113	4	11.52	1194610	20.0
unknown11.37	11.37	3.2	ng	193000	4	11.52	1194610	20.0
Naphtho[1,2-b]thi...	11.42	3.0	ng	182009	4	11.52	1194610	20.0
Phenanthrene, 2-m...	12.02	6.6	ng	394253	4	11.52	1194610	20.0
Phenanthrene, 1-m...	12.05	7.5	ng	450173	4	11.52	1194610	20.0
Phenanthrene, 3-m...	12.10	2.8	ng	166297	4	11.52	1194610	20.0
4H-Cyclopenta[def...	12.14	9.9	ng	594351	4	11.52	1194610	20.0
Anthracene, 2-met...	12.16	3.8	ng	224713	4	11.52	1194610	20.0
5,16[1',2']:8,13[...	12.32	4.4	ng	264680	4	11.52	1194610	20.0
9,10-Anthracenedione	12.34	3.4	ng	201002	4	11.52	1194610	20.0
9,10-Dimethylanth...	12.57	4.7	ng	283357	4	11.52	1194610	20.0
1,2,4,8-Tetrameth...	12.66	3.5	ng	211588	4	11.52	1194610	20.0
Fluoranthene, 2-m...	13.29	2.9	ng	376152	5	14.17	2572110	20.0
1-Naphthalenecarb...	13.98	2.8	ng	365847	5	14.17	2572110	20.0
9,10-Anthracenedi...	15.46	2.6	ng	111618	6	15.71	859624	20.0