LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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-BF011619.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	5.057	501	505	513	rVB	51826	60295	1.88%	0.134%
2	5.487	574	578	587	rBV	1003485	1040133	32.42%	2.315%
3	6.492	746	749	760	rBV	1235608	1075963	33.54%	2.395%
4	6.628	768	772	779	rBV	1369353	1161350	36.20%	2.585%
5	6.851	807	810	817	rBV	1400099	1277730	39.83%	2.844%
6	7.010	833	837	840	rBV	1133854	921711	28.73%	2.051%
7	7.410	901	905	910	rBV	702432	576259	17.96%	1.282%
8	8.133	1023	1028	1031	rBV	1762106	1561843	48.69%	3.476%
9	8.157	1031	1032	1035	rVB	219864	124063	3.87%	0.276%
10	8.727	1126	1129	1133	rBV2	65043	57662	1.80%	0.128%
11	8.851	1147	1150	1153	rVB	128577	112756	3.51%	0.251%
12	8.945	1163	1166	1171	rBV2	130917	138030	4.30%	0.307%
13	9.204	1207	1210	1216	rVV	1266065	1151798	35.90%	2.563%
14	9.292	1221	1225	1227	rBV	83269	85191	2.66%	0.190%
15	9.474	1252	1256	1260	rVV2	81812	112433	3.50%	0.250%
16	9.545	1265	1268	1271	rVV	136885	151293	4.72%	0.337%
17	9.574	1271	1273	1275	rVV	100117	84558	2.64%	0.188%
18	9.598	1275	1277	1282	rVV3	104580	148449	4.63%	0.330%
19	9.669	1285	1289	1299	rVB	84892	118266	3.69%	0.263%
20	9.751	1299	1303	1307	rBV	136419	135207	4.21%	0.301%
21	9.822	1313	1315	1317	rVB	73657	53446	1.67%	0.119%
22	9.892	1323	1327	1330	rBV	1489251	1296050	40.40%	2.884%
23	9.922	1330	1332	1335	rVB	315171	244852	7.63%	0.545%
24	9.992	1341	1344	1349	rBV2	46630	61979	1.93%	0.138%
25	10.045	1349	1353	1357	rBV5	33242	56408	1.76%	0.126%
26	10.092	1357	1361	1365	rVB	203394	197371	6.15%	0.439%
27	10.133	1365	1368	1374	rVB3	65524	61550	1.92%	0.137%
28	10.204	1377	1380	1383	rBV2	62718	66025	2.06%	0.147%
29	10.316	1397	1399	1402	rVB	101040	80126	2.50%	0.178%
30	10.439	1416	1420	1426	rVB	375682	378557	11.80%	0.842%
31	10.504	1426	1431	1432	rBV	53698	69105	2.15%	0.154%
32	10.521	1432	1434	1436	rVV2	67853	69097	2.15%	0.154%
33	10.545	1436	1438	1441	rVV2	57426	63269	1.97%	0.141%
34	10.592	1444	1446	1449	rVB	85019	67977	2.12%	0.151%

LSC Area Percent Report

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Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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-BF011619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.680	1457	1461	1465	rVB	601796	587704	18.32%	1.308%
36	10.804	1477	1482	1487	rVB2	105813	159203	4.96%	0.354%
37	10.986	1508	1513	1515	rBV2	102416	117854	3.67%	0.262%
38	11.016	1515	1518	1521	rVV	72754	72737	2.27%	0.162%
39	11.069	1524	1527	1530	rVB	68624	61514	1.92%	0.137%
40	11.116	1530	1535	1536	rBV3	44316	62219	1.94%	0.138%
41	11.133	1536	1538	1543	rVV3	56638	65376	2.04%	0.145%
42	11.239	1550	1556	1558	rVV3	82750	120135	3.74%	0.267%
43	11.274	1558	1562	1567	rVB	201068	216312	6.74%	0.481%
44	11.374	1576	1579	1581	rBV	1487475	1327884	41.39%	2.955%
45	11.404	1581	1584	1587	rVV	1965503	1846445	57.56%	4.109%
46	11.451	1589	1592	1595	rVV	791876	641663	20.00%	1.428%
47	11.486	1595	1598	1601	rVB2	64338	71358	2.22%	0.159%
48	11.604	1616	1618	1626	rVV	114672	121082	3.77%	0.269%
49	11.668	1626	1629	1631	rVV2	111466	99924	3.11%	0.222%
50	11.710	1633	1636	1641	rVV2	102784	105090	3.28%	0.234%
51	11.763	1642	1645	1648	rVV	415043	331528	10.33%	0.738%
52	11.792	1648	1650	1653	rVB	63401	59838	1.87%	0.133%
53	11.880	1661	1665	1667	rBV	300836	295535	9.21%	0.658%
54	11.904	1667	1669	1674	rVV	426972	384494	11.99%	0.856%
55	11.951	1674	1677	1680	rVV	176069	162781	5.07%	0.362%
56	11.992	1680	1684	1686	rVV2	645837	672639	20.97%	1.497%
57	12.010	1686	1687	1691	rVB	209132	174843	5.45%	0.389%
58	12.074	1696	1698	1702	rVB2	68197	70740	2.21%	0.157%
59	12.168	1711	1714	1717	rVV	213737	200160	6.24%	0.445%
60	12.198	1717	1719	1722	rVB3	66677	73840	2.30%	0.164%
61	12.321	1738	1740	1743	rVB	77895	61390	1.91%	0.137%
62	12.357	1743	1746	1748	rBV	104950	95771	2.99%	0.213%
63	12.380	1748	1750	1752	rVB2	75227	60822	1.90%	0.135%
64	12.427	1755	1758	1759	rBV	238237	217286	6.77%	0.484%
65	12.451	1759	1762	1763	rVV	1236257	1018092	31.74%	2.266%
66	12.468	1763	1765	1771	rVV3	1460936	1371877	42.76%	3.053%
67	12.515	1771	1773	1777	rVB2	133029	137600	4.29%	0.306%
68	12.557	1777	1780	1782	rVB	210252	163690	5.10%	0.364%
69	12.592	1782	1786	1790	rBV	3285549	2803237	87.38%	6.239%
70	12.633	1791	1793	1795	rBV2	61895	55518	1.73%	0.124%
71	12.686	1800	1802	1805	rVV2	52242	50228	1.57%	0.112%

LSC Area Percent Report

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Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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-BF011619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.745	1809	1812	1815	rVV2	133340	157768	4.92%	0.351%
73	12.821	1818	1825	1831	rVV	2882142	3208029	100.00%	7.139%
74	12.874	1831	1834	1838	rVB2	117141	166919	5.20%	0.371%
75	12.957	1845	1848	1851	rVB	1278742	979801	30.54%	2.181%
76	12.980	1851	1852	1857	rVB	130693	91278	2.85%	0.203%
77	13.039	1857	1862	1865	rBV2	225988	365753	11.40%	0.814%
78	13.092	1869	1871	1873	rBV3	60121	60656	1.89%	0.135%
79	13.127	1873	1877	1878	rBV3	178078	207316	6.46%	0.461%
80	13.151	1878	1881	1884	rVB	570137	555278	17.31%	1.236%
81	13.215	1889	1892	1895	rVB	536358	434052	13.53%	0.966%
82	13.251	1895	1898	1901	rBV2	284674	314854	9.81%	0.701%
83	13.345	1911	1914	1917	rBV	194995	168202	5.24%	0.374%
84	13.374	1917	1919	1923	rVV	201092	185176	5.77%	0.412%
85	13.768	1983	1986	1988	rBV	216614	209086	6.52%	0.465%
86	13.798	1988	1991	1993	rVV	175972	166739	5.20%	0.371%
87	13.821	1993	1995	1998	rVV2	193610	221979	6.92%	0.494%
88	13.851	1998	2000	2006	rVB3	182078	285575	8.90%	0.636%
89	14.015	2024	2028	2031	rBV2	2027093	2868489	89.42%	6.384%
90	14.045	2031	2033	2040	rVB	1333962	1156567	36.05%	2.574%
91	14.127	2044	2047	2051	rVB	250805	197497	6.16%	0.440%
92	14.480	2105	2107	2109	rBV2	222503	175122	5.46%	0.390%
93	14.533	2113	2116	2117	rBV2	165908	165435	5.16%	0.368%
94	14.786	2157	2159	2163	rVB2	203478	194438	6.06%	0.433%
95	15.062	2202	2206	2209	rBV	856976	1273990	39.71%	2.835%
96	15.121	2214	2216	2221	rVB3	259715	282584	8.81%	0.629%
97	15.368	2255	2258	2264	rVB	534196	675996	21.07%	1.504%
98	15.433	2265	2269	2274	rVV	762865	987038	30.77%	2.197%
99	15.492	2275	2279	2293	rVB3	896343	1707858	53.24%	3.801%
100	16.968	2527	2530	2537	rVB	270267	471313	14.69%	1.049%

Sum of corrected areas: 44933999

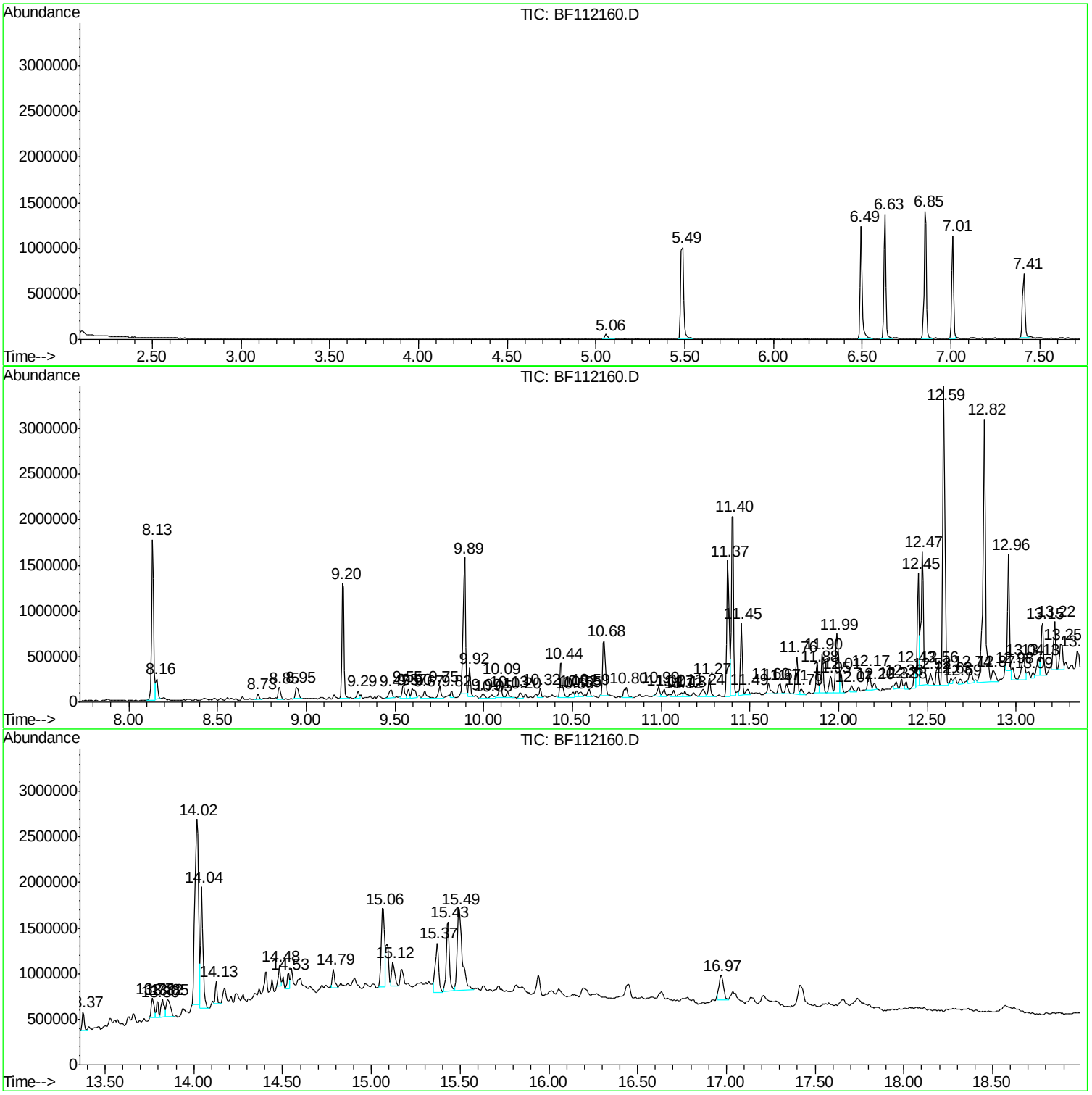
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

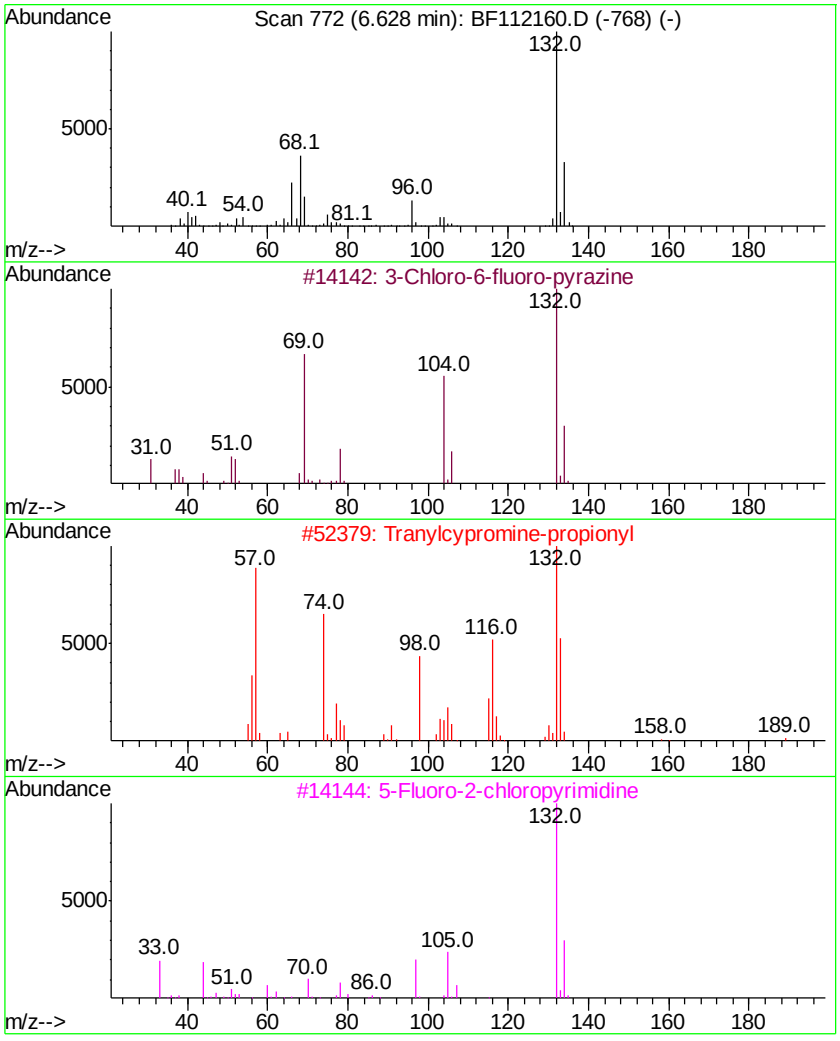
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

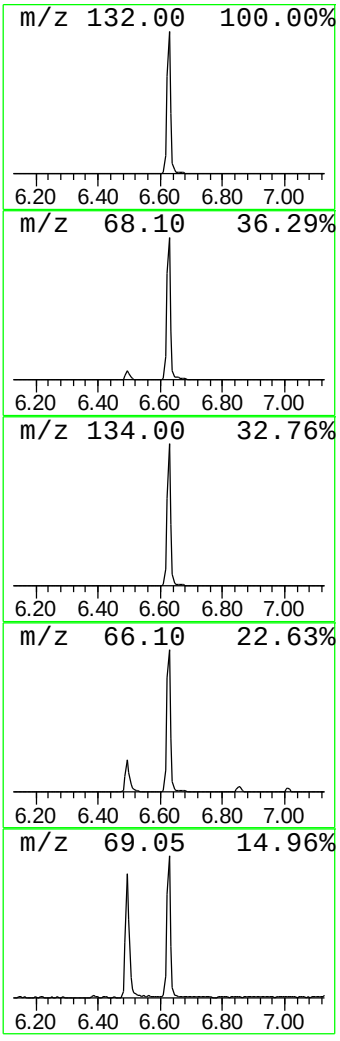
****

Peak Number 1 unknown6.63 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	18.18 ng	1161350	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

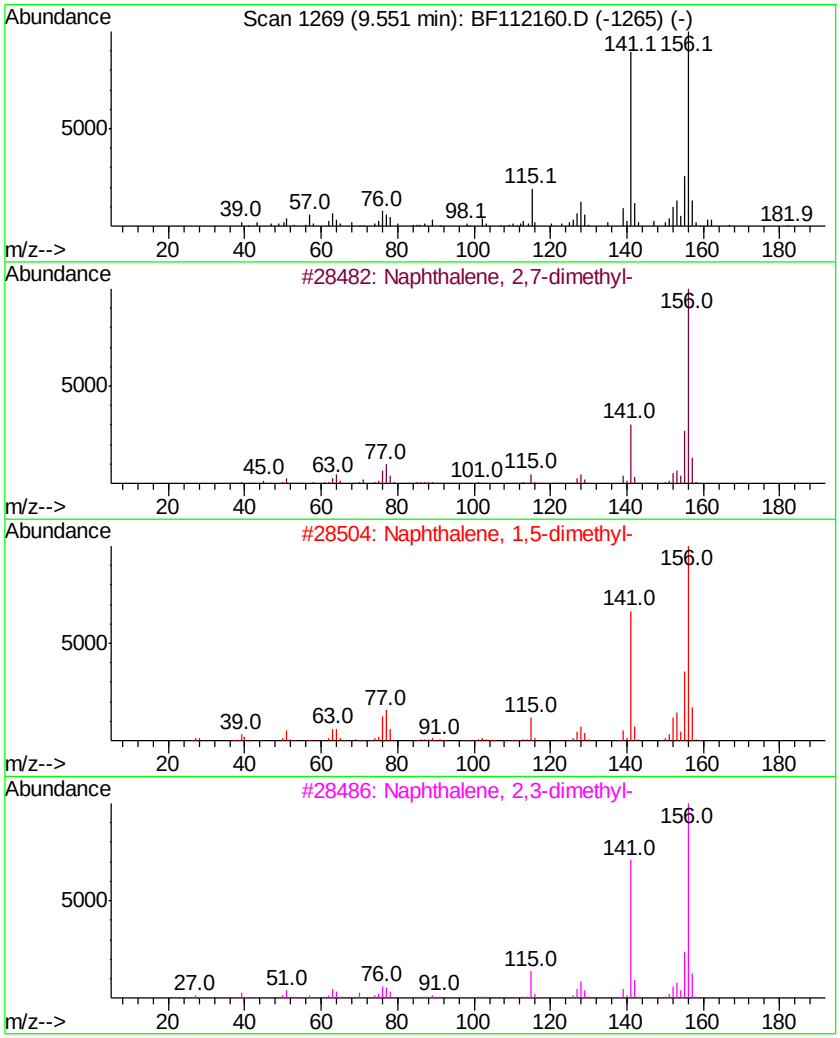
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

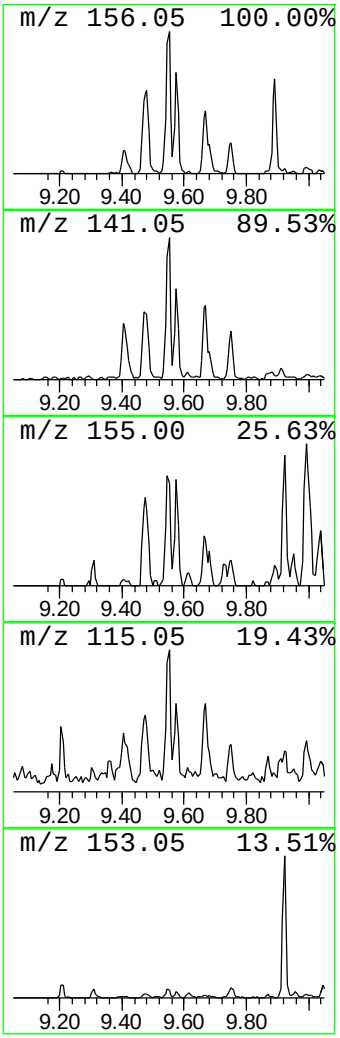
****

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.55	2.33 ng	151293	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	94
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	94





Library Search Compound Report

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Misc :
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Instrument :
BNA_F
ClientSampleId :
PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

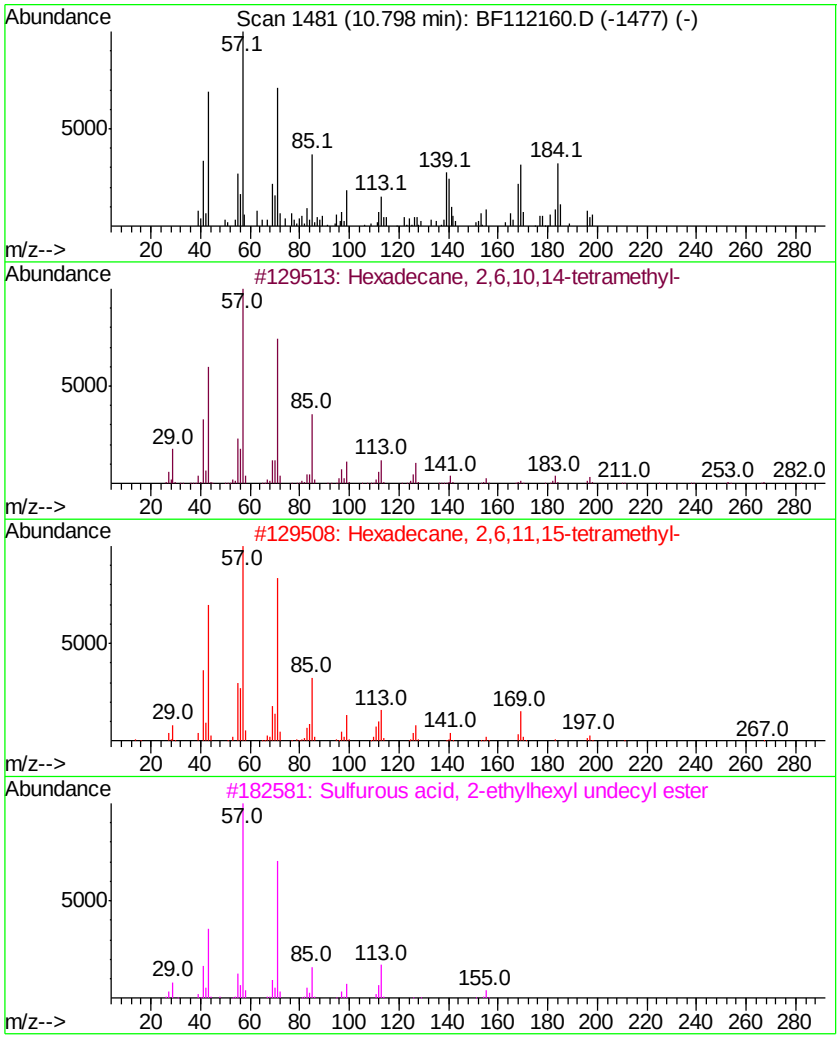
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

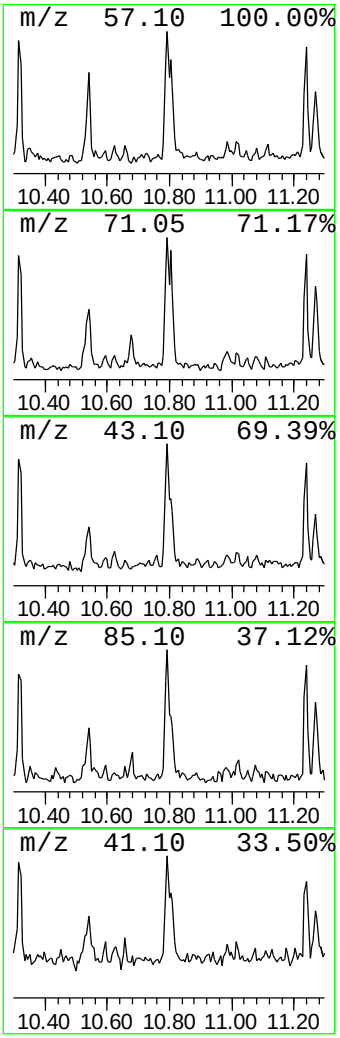
****

Peak Number 5 unknown10.80 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	2.40 ng	159203	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	38
2	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	35
3	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	27
4	Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	27
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	27





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ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
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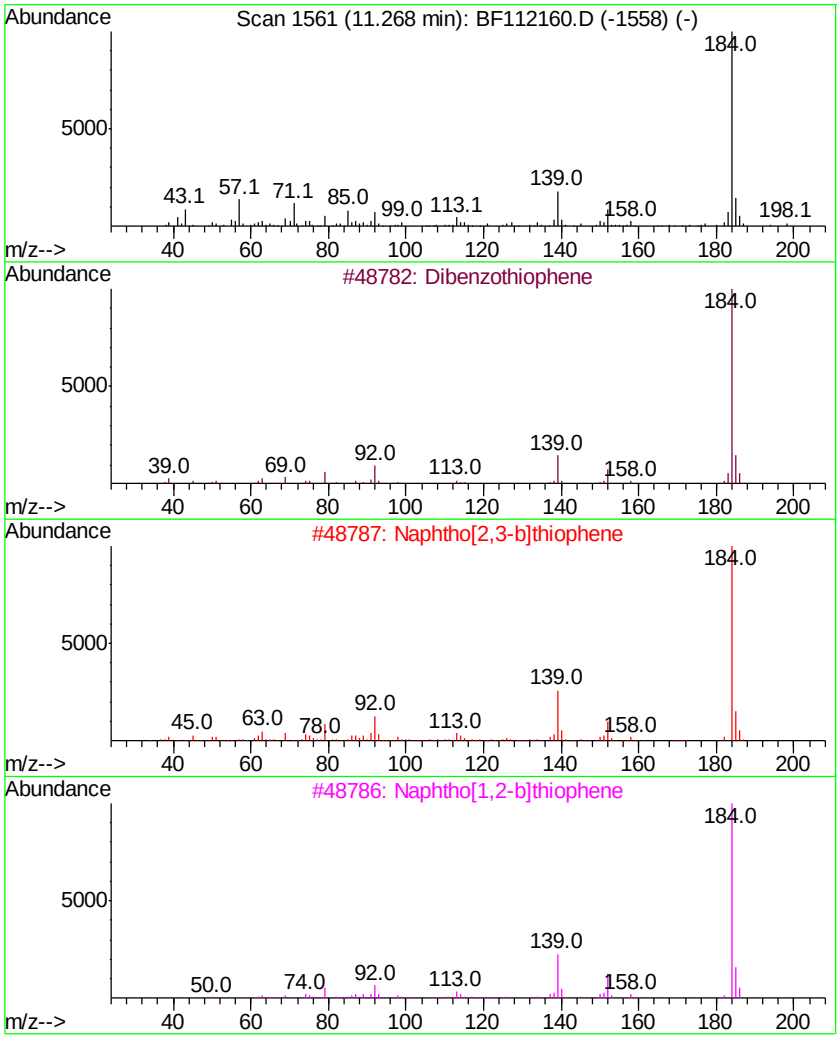
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

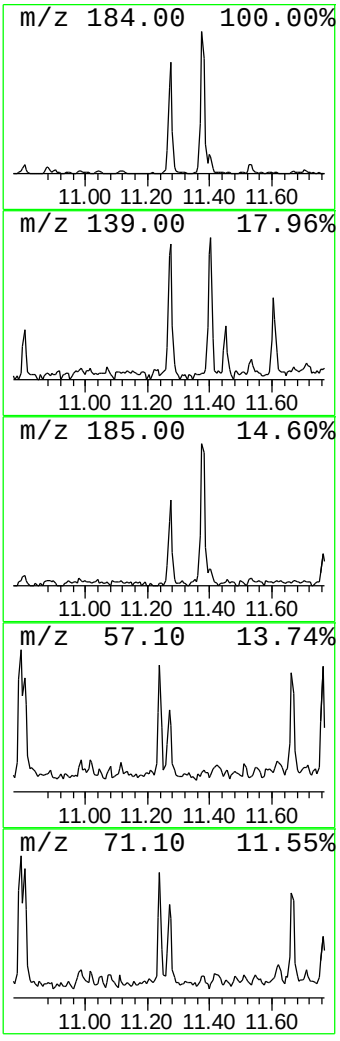
****

Peak Number 6 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	3.26 ng	216312	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

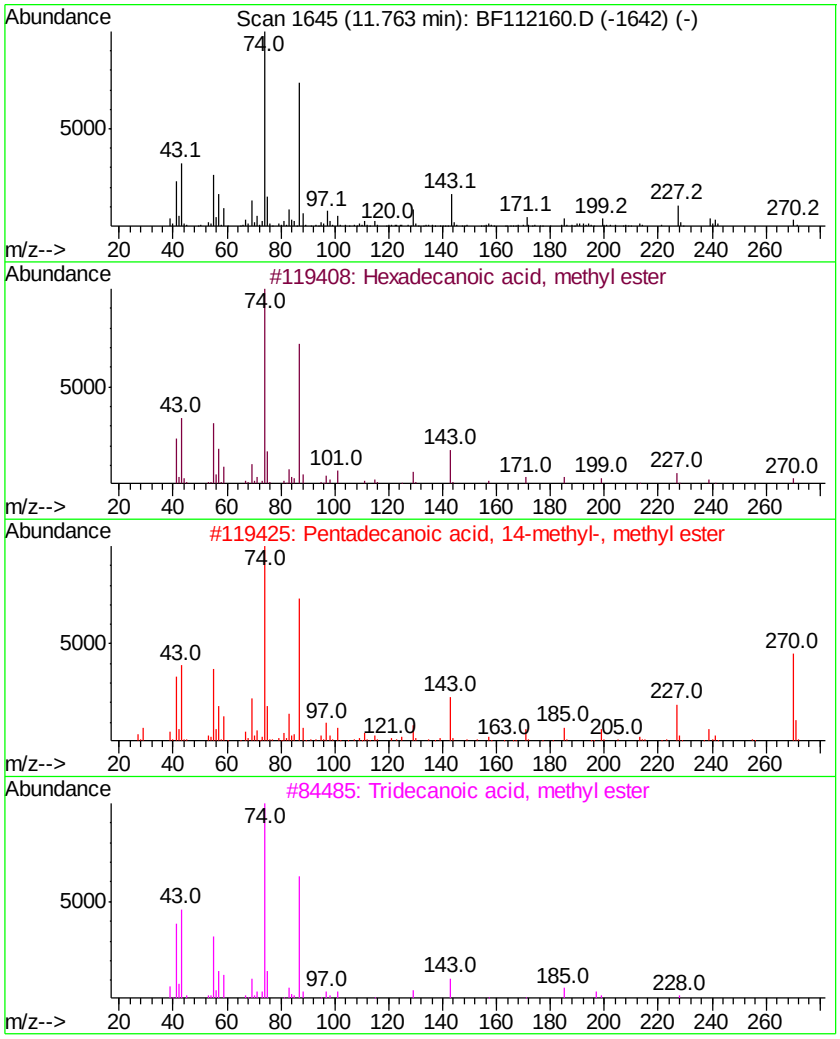
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

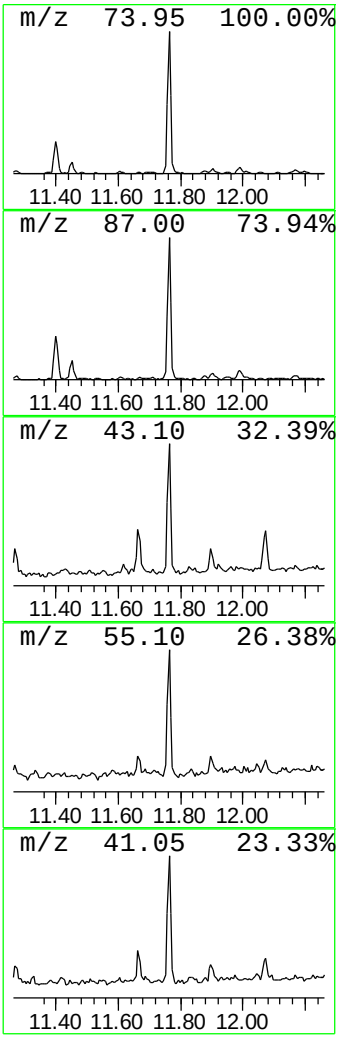
****

Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	4.99 ng	331528	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	98
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	97
3	Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	90
4	Hexadecanoic acid, 15-methyl-, m...	284	C18H36O2	006929-04-0	87
5	Tridecanoic acid, 12-methyl-, me...	242	C15H30O2	005129-58-8	83





Library Search Compound Report

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Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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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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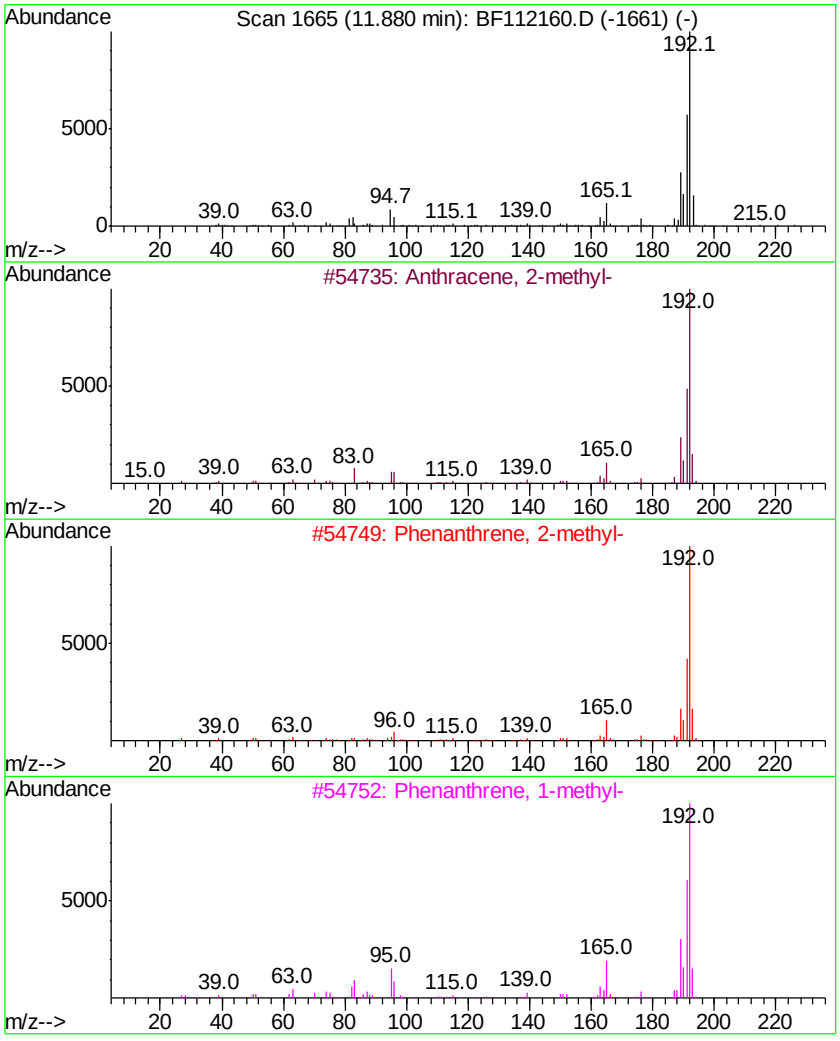
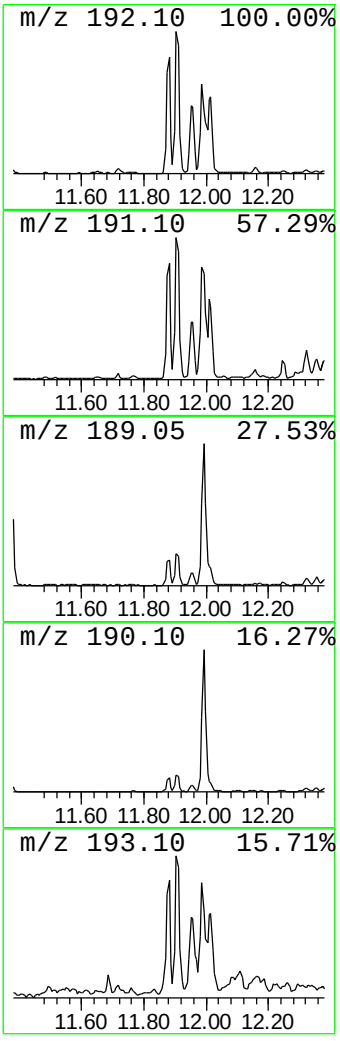
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	4.45 ng	295535	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Instrument :
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ClientSampleId :
PL-01-011819-A

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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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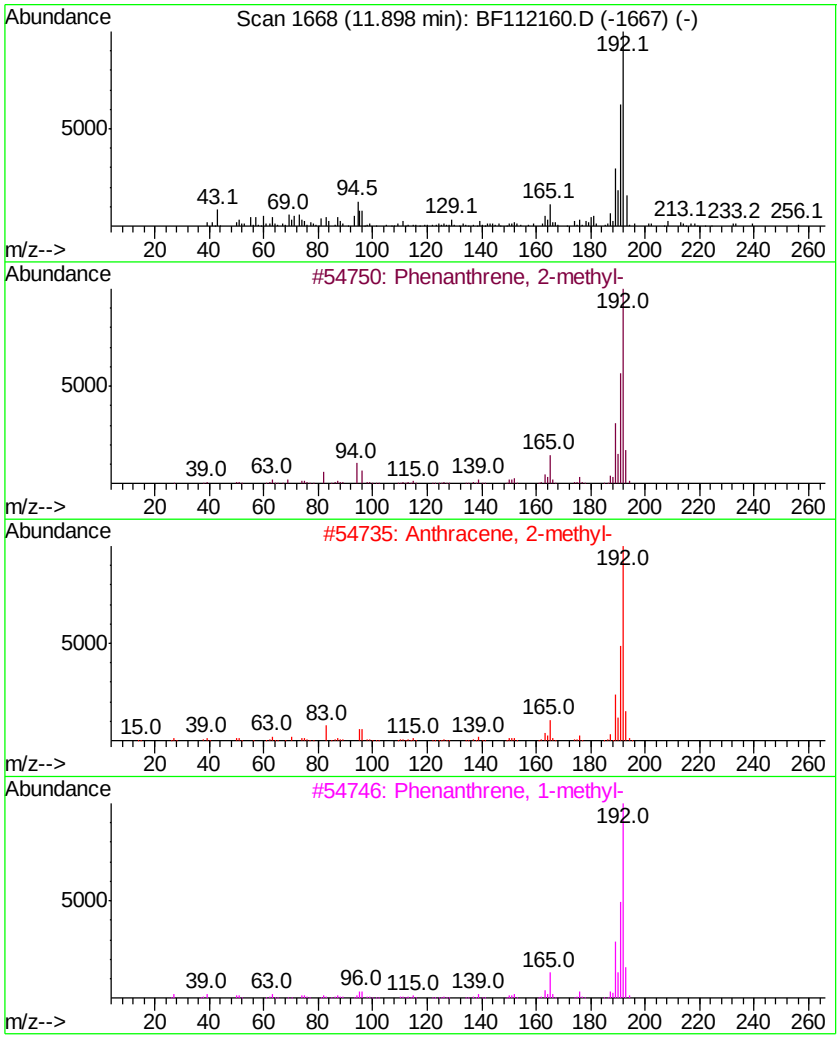
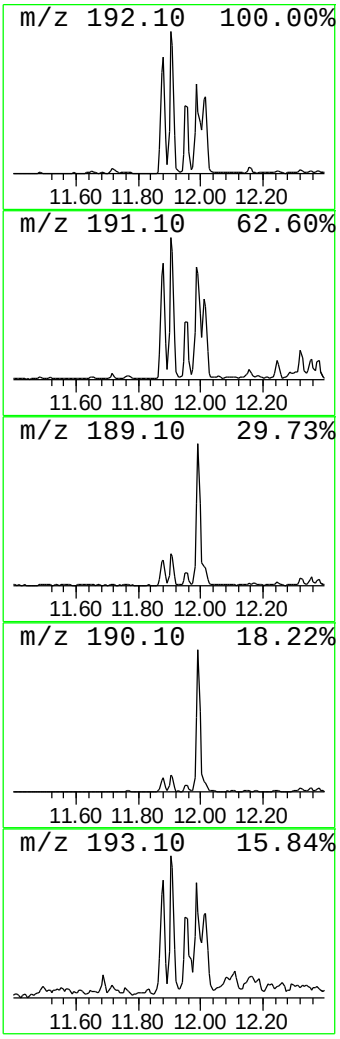
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	5.79 ng	384494	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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ClientSampleId : PL-01-011819-A

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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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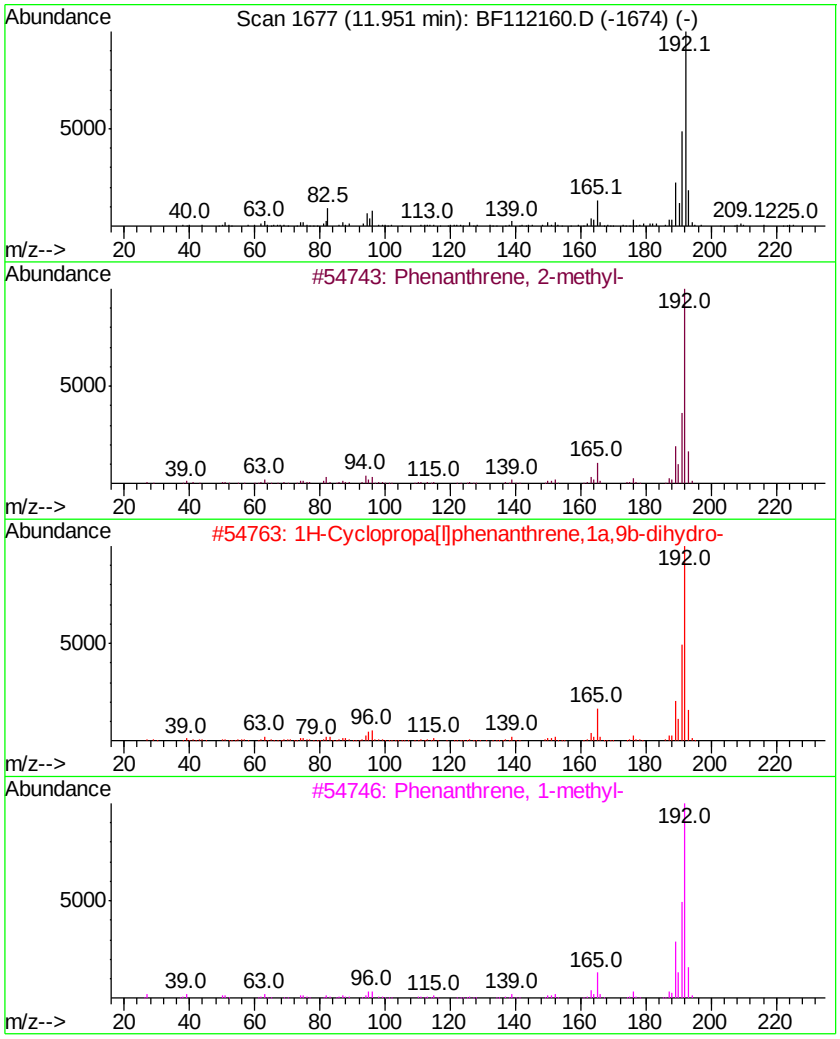
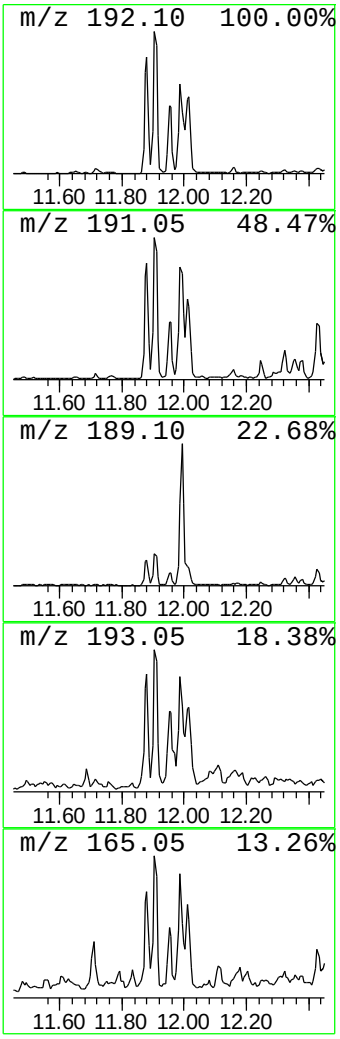
Peak Number 10 1H-Cyclopropa[l]phenanthren... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	2.45 ng	162781	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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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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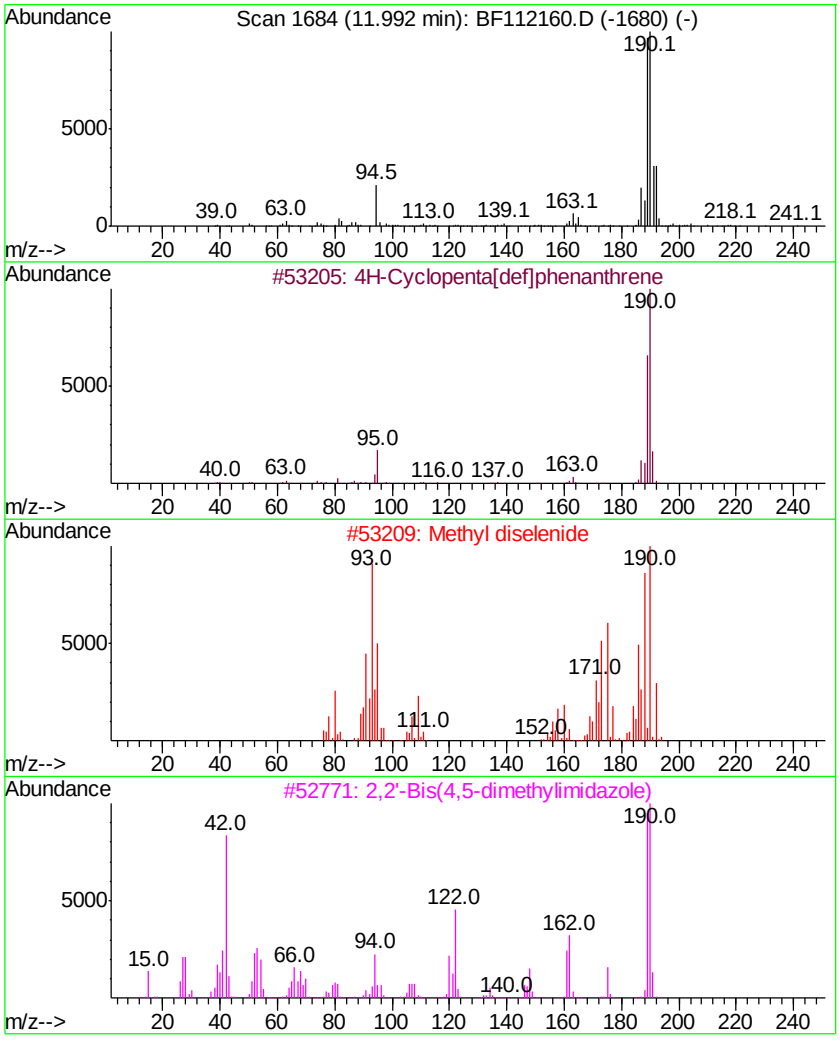
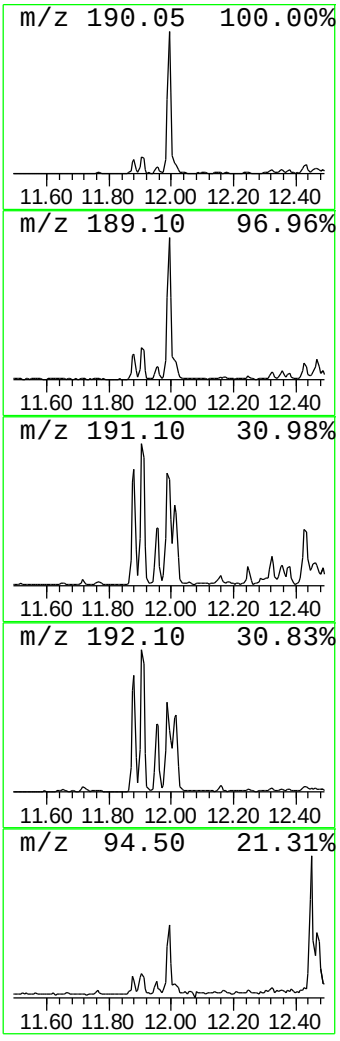
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	10.13 ng	672639	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25
5	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18





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ClientSampleId : PL-01-011819-A

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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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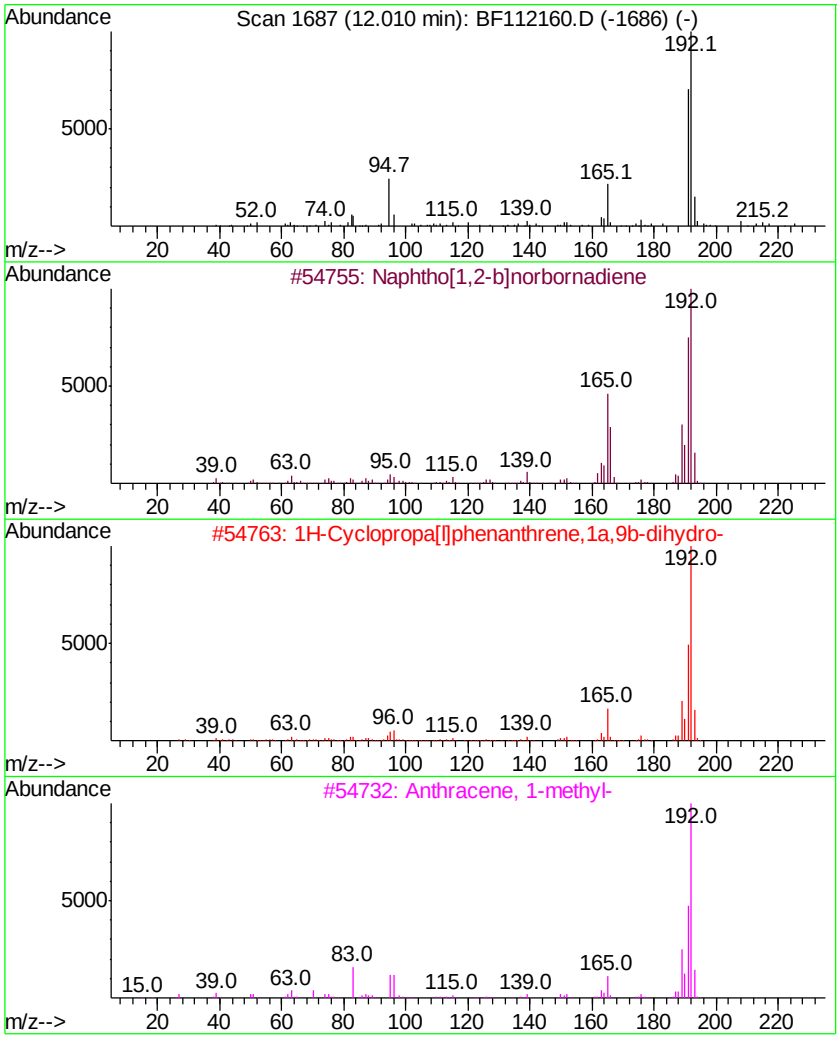
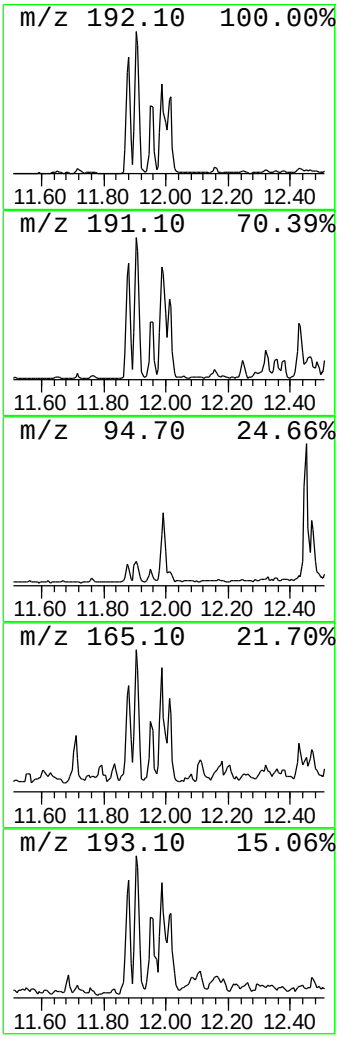
Peak Number 12 Naphtho[1,2-b]norbornadiene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	2.63 ng	174843	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	91
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81





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Sample : K1013-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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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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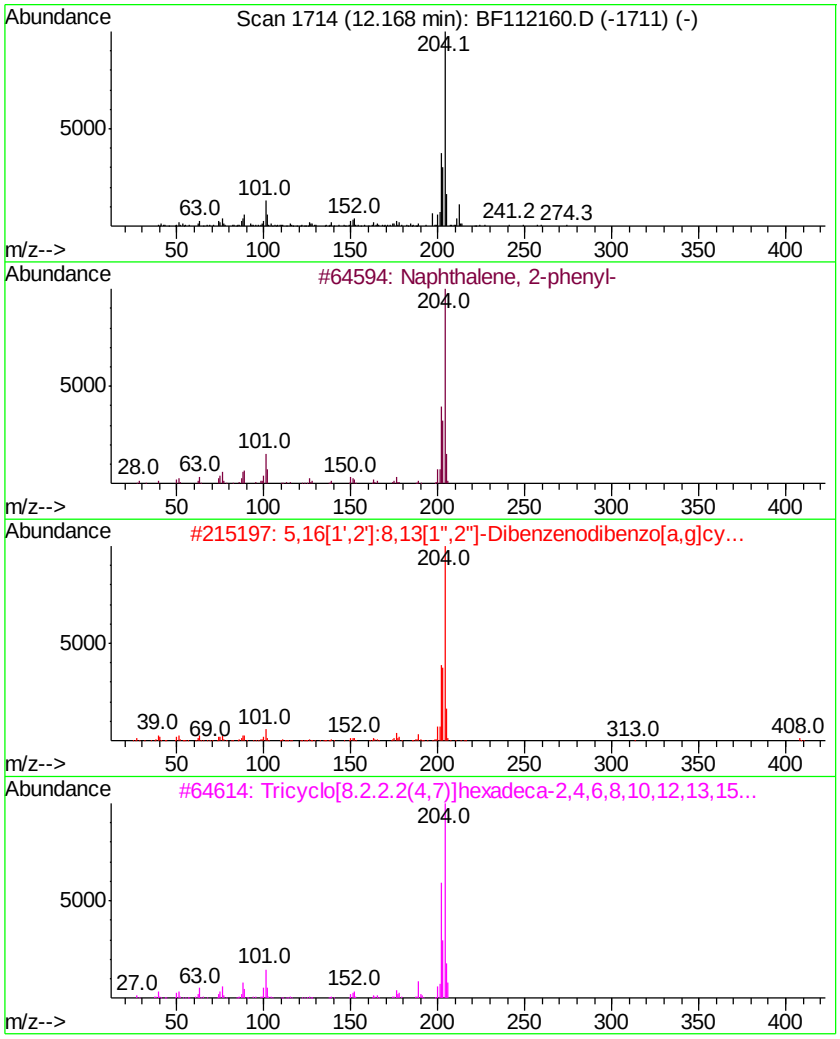
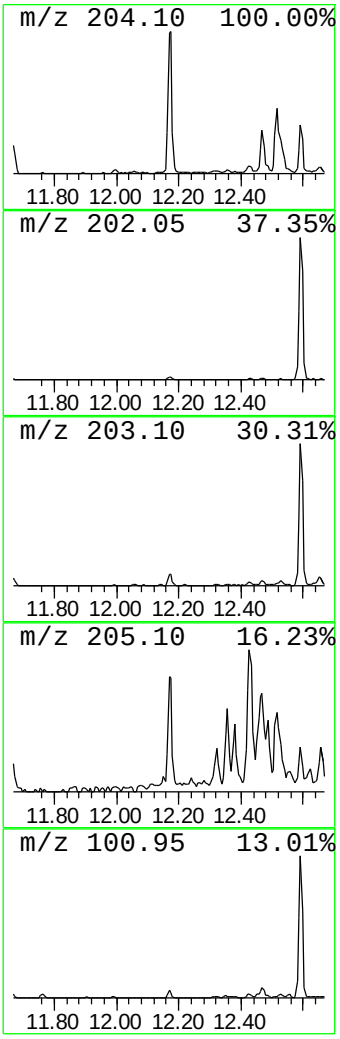
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	3.01 ng	200160	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72
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	64
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52





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Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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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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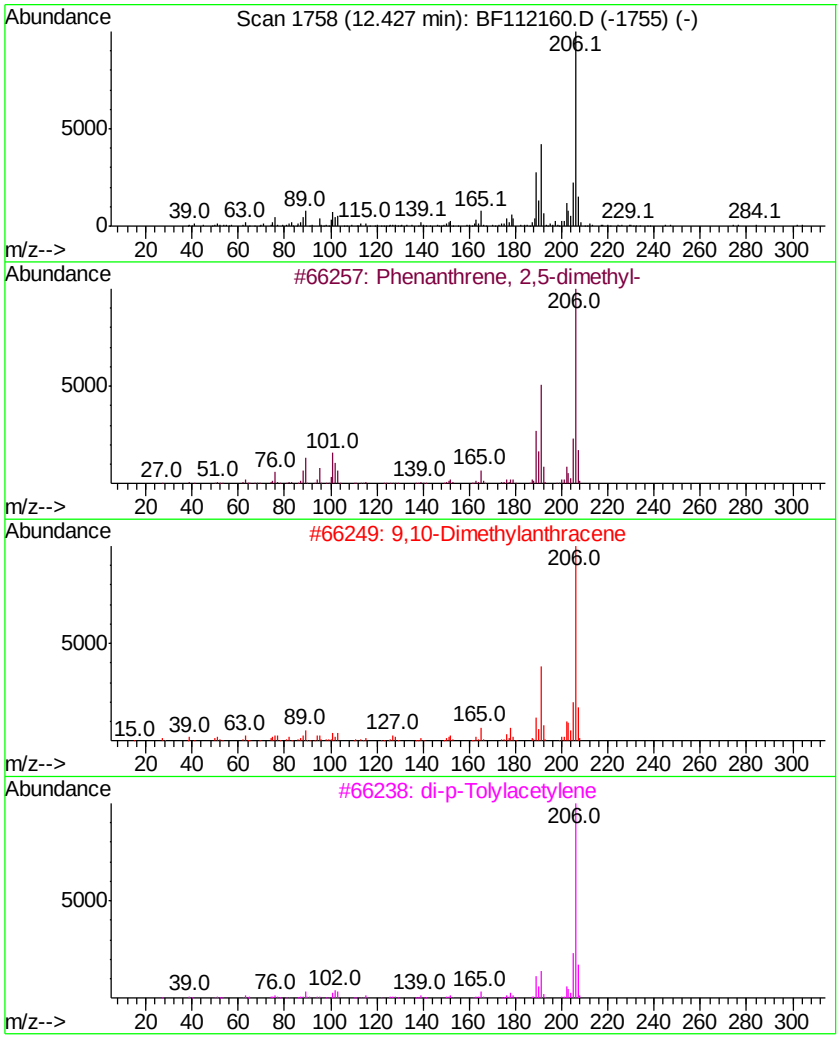
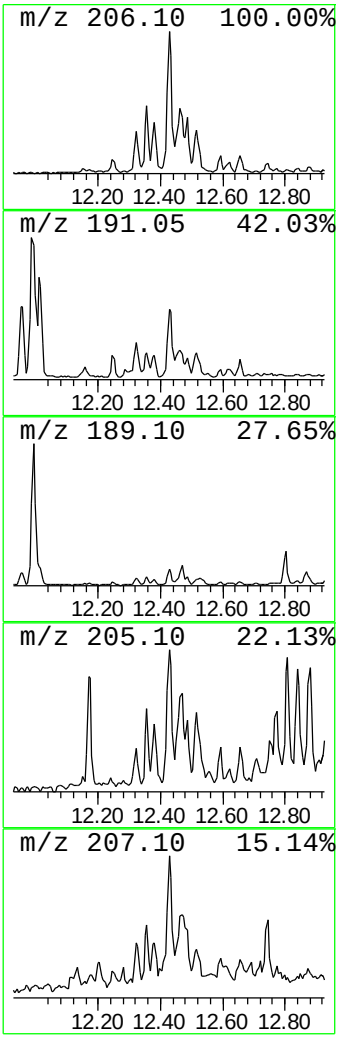
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	3.27 ng	217286	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Sample : K1013-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-01-011819-A

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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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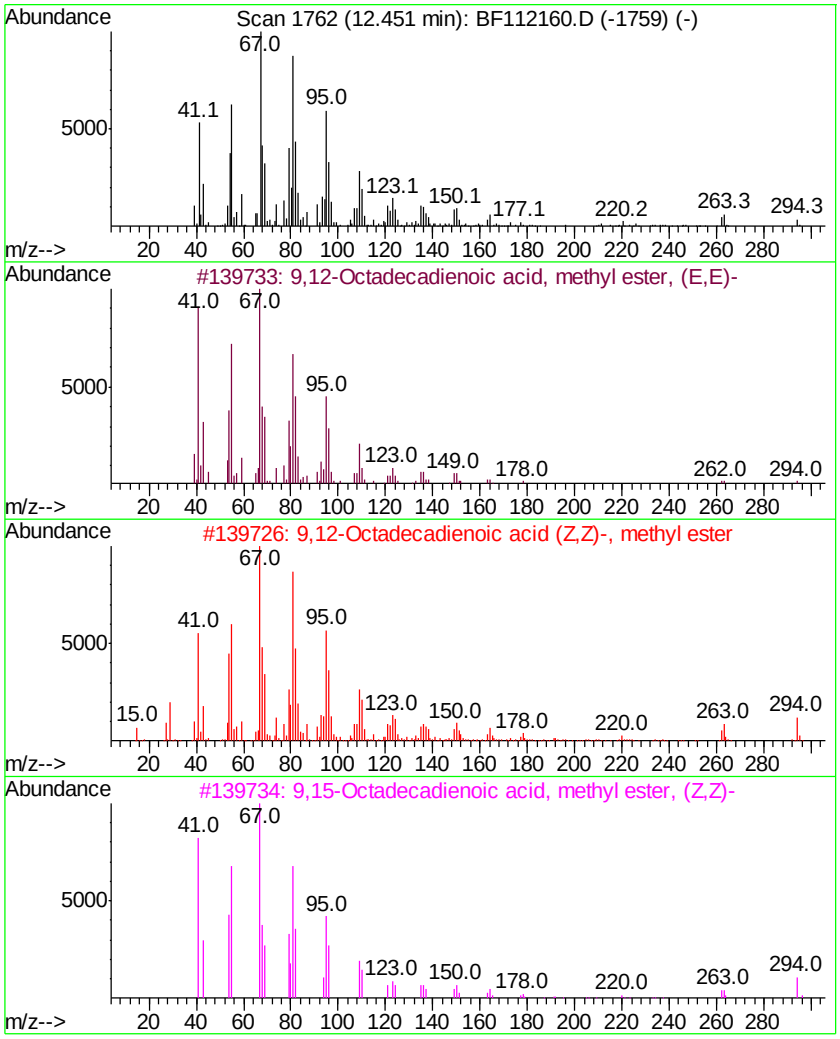
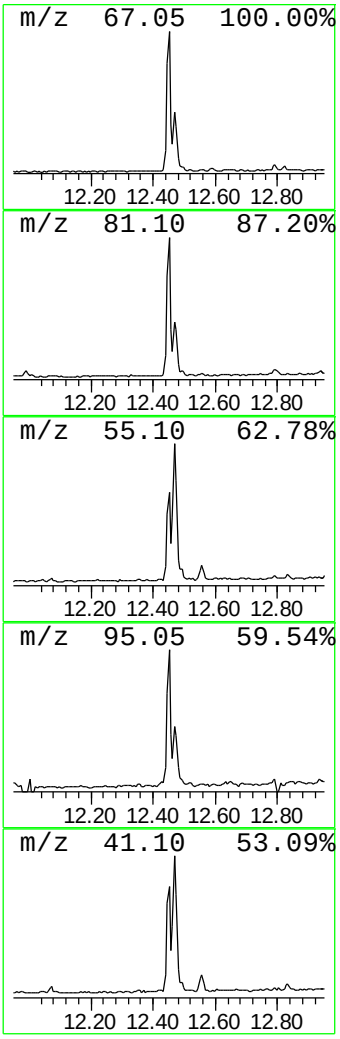
Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	15.33 ng	1018090	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
3	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
4	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99
5	10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	98





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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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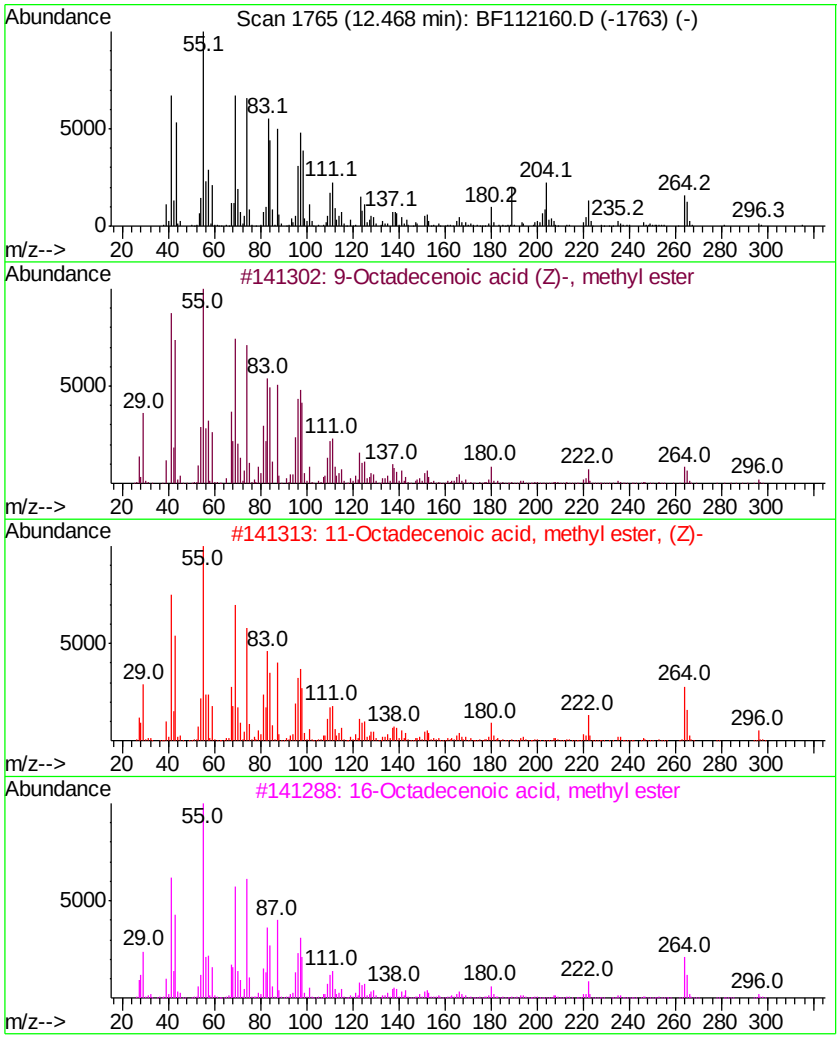
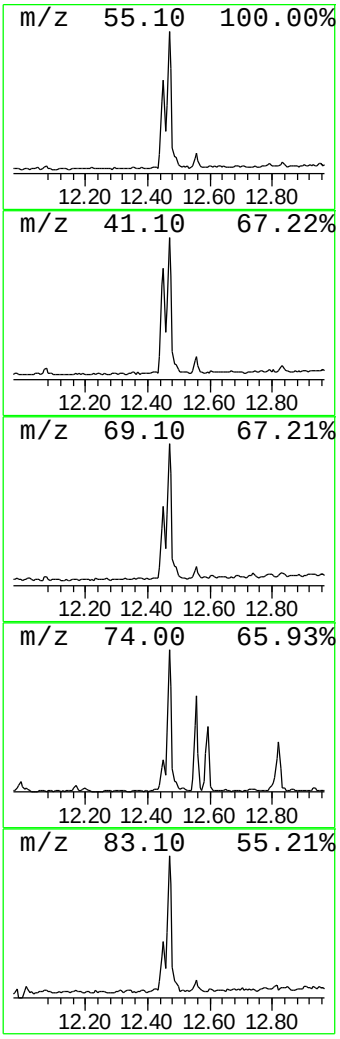
Peak Number 16 9-Octadecenoic acid (Z)-, m... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	20.66 ng	1371880	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	95
2	11-Octadecenoic acid, methyl est...	296	C19H36O2	001937-63-9	95
3	16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	95
4	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	95
5	9-Octadecenoic acid, methyl este...	296	C19H36O2	001937-62-8	95





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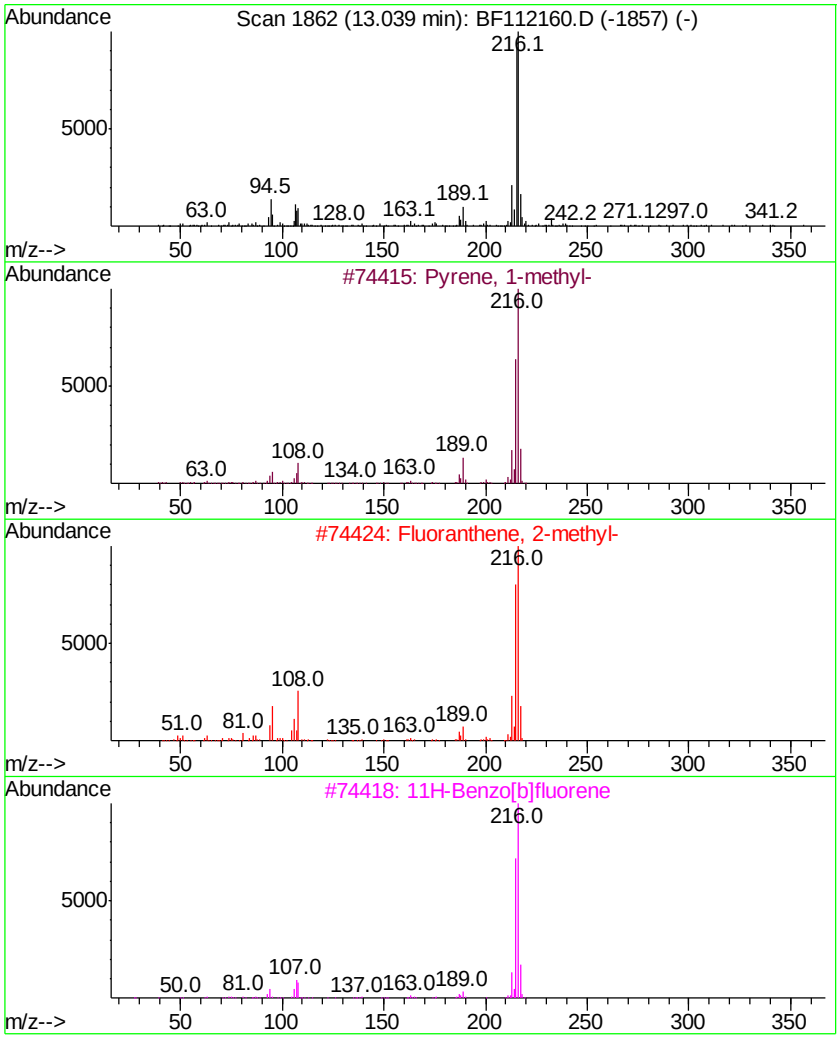
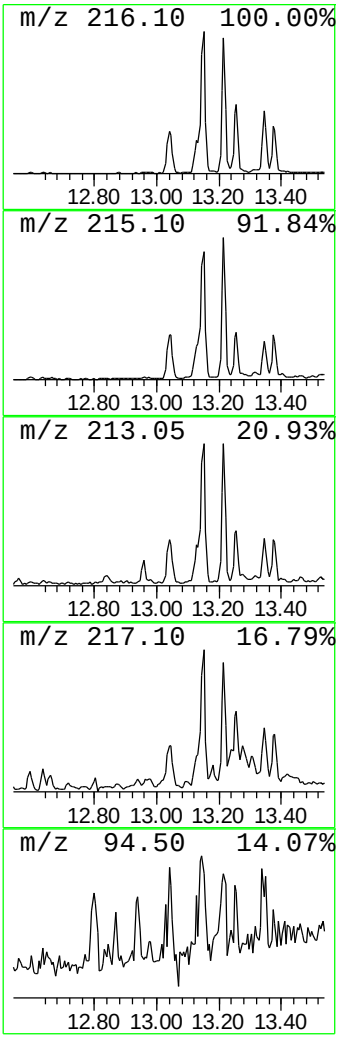
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.04	2.55 ng	365753	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70





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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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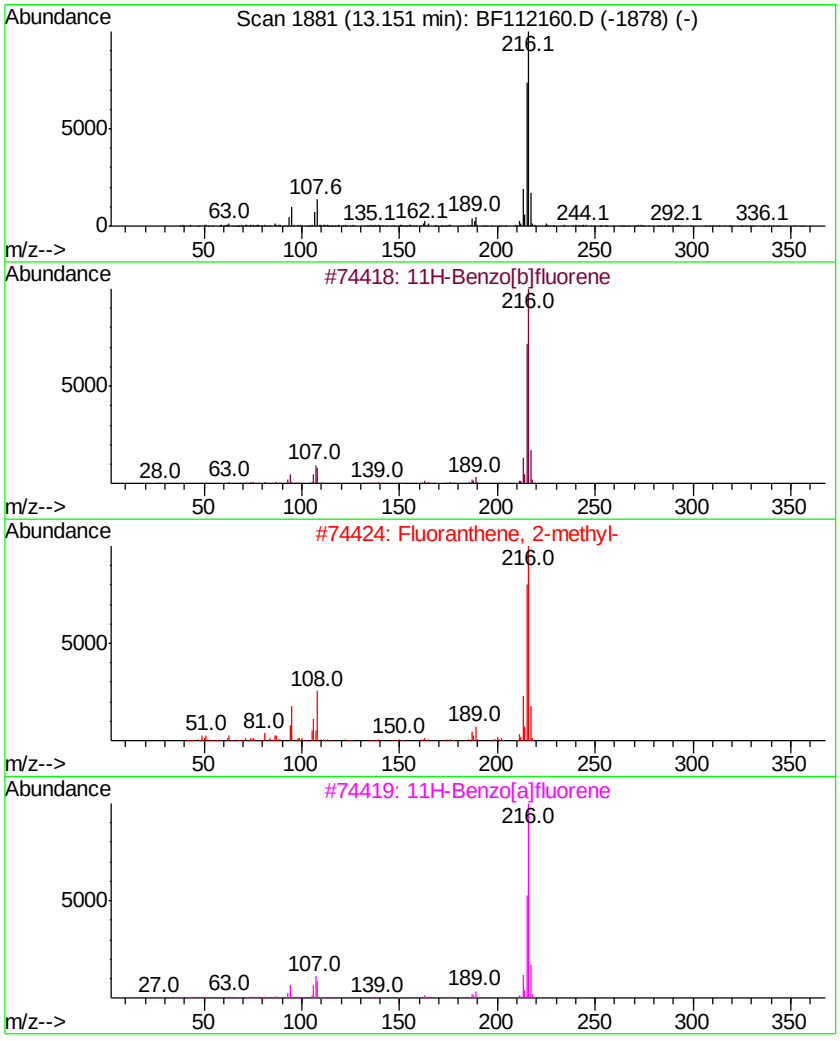
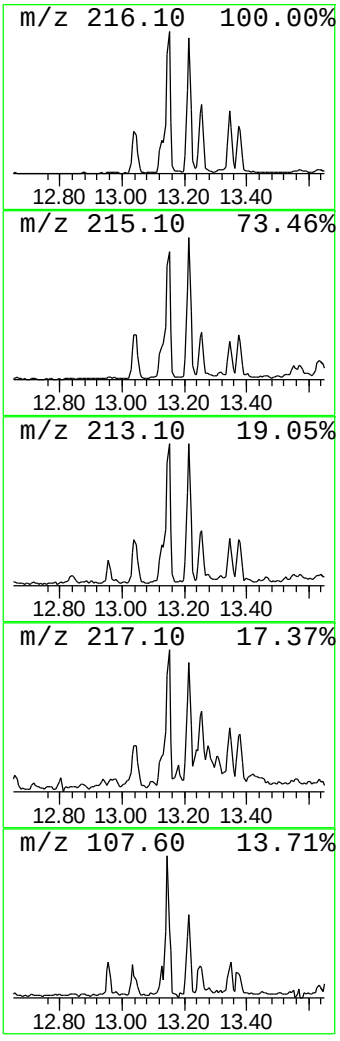
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.87 ng	555278	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	1,3-Dihydro-5,6-dimethyl-1-(2-pr...	216	C12H12N2S	080276-22-8	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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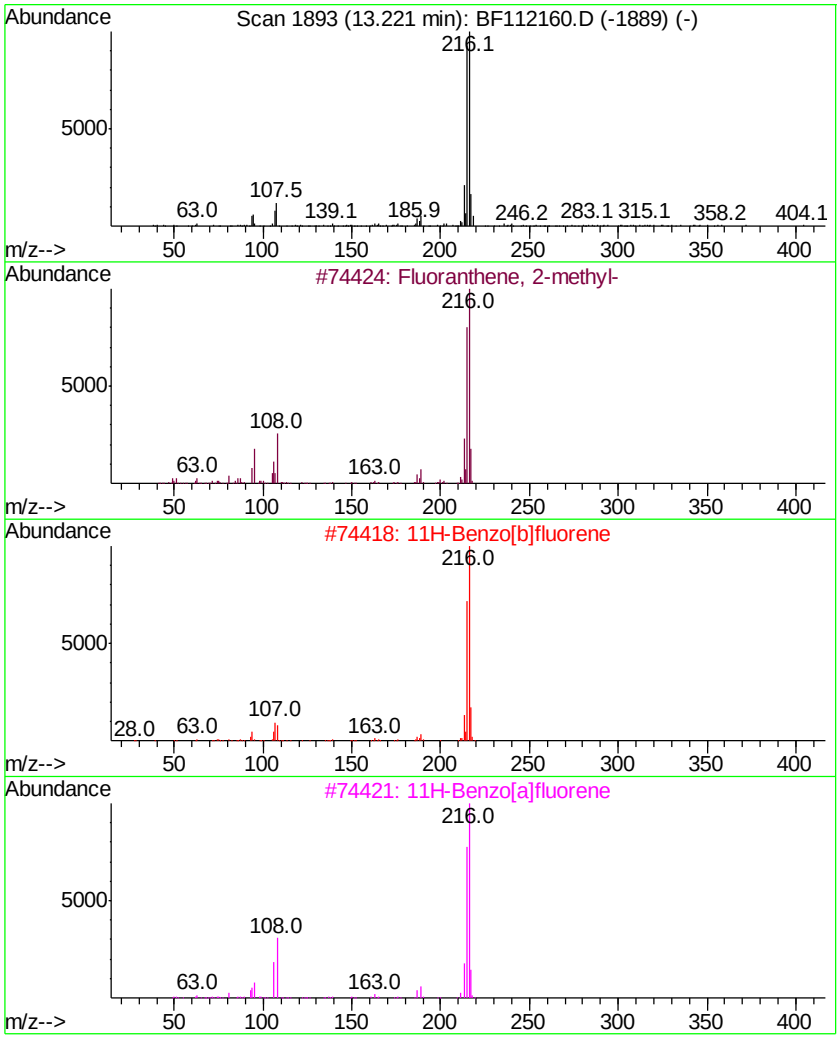
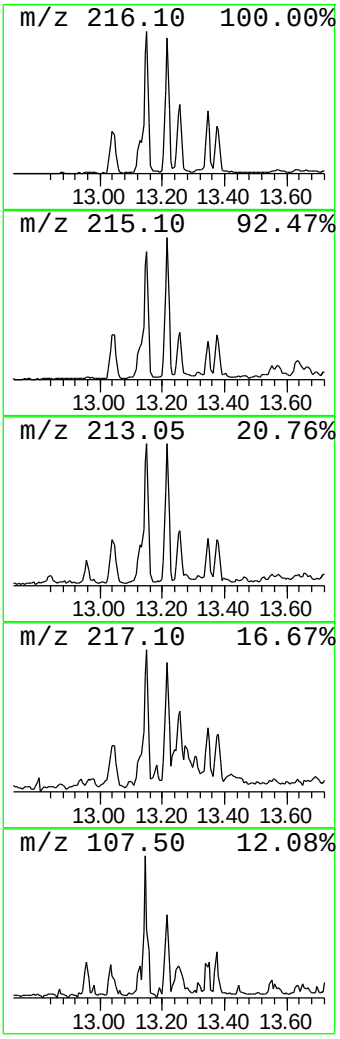
Peak Number 19 Fluoranthene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	3.03 ng	434052	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	70
5	6H-Thiazolo[5,4-e]indole, 2,7,8-...	216	C12H12N2S	1000338-32-0	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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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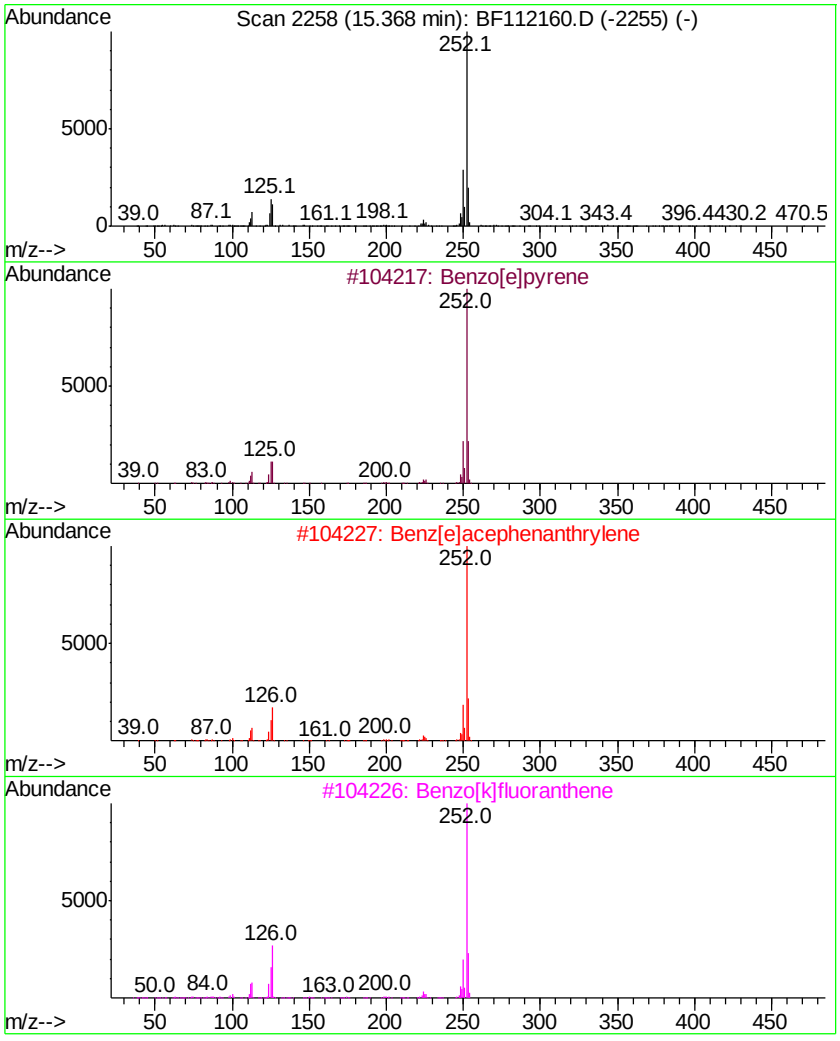
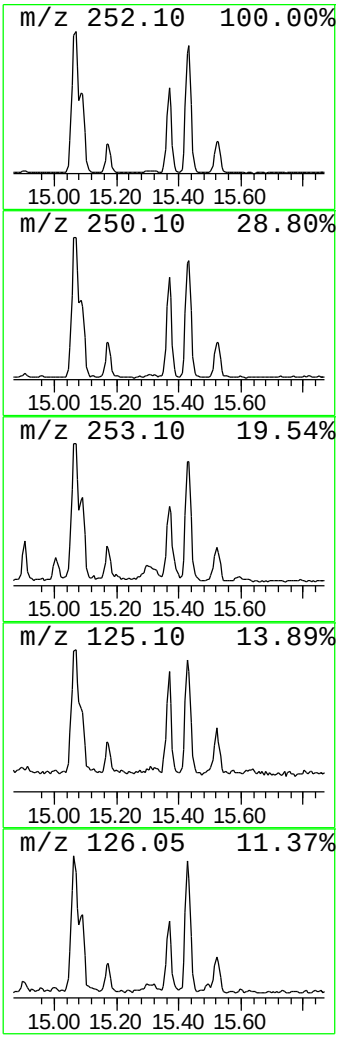
Peak Number 20 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	7.92 ng	675996	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF012119\
Data File : BF112160.D
Acq On : 21 Jan 2019 15:56
Operator : JU/SJ
Sample : K1013-01 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-011819-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF011619.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
unknown6.63	6.63	18.2	ng	1161350	1	6.85	1277730	20.0
Naphthalene, 2,7-...	9.55	2.3	ng	151293	3	9.89	1296050	20.0
unknown10.80	10.80	2.4	ng	159203	4	11.37	1327880	20.0
Dibenzothiophene	11.27	3.3	ng	216312	4	11.37	1327880	20.0
Hexadecanoic acid...	11.76	5.0	ng	331528	4	11.37	1327880	20.0
Anthracene, 2-met...	11.88	4.5	ng	295535	4	11.37	1327880	20.0
Phenanthrene, 2-m...	11.90	5.8	ng	384494	4	11.37	1327880	20.0
1H-Cyclopropa[l]p...	11.95	2.5	ng	162781	4	11.37	1327880	20.0
4H-Cyclopenta[def...	11.99	10.1	ng	672639	4	11.37	1327880	20.0
Naphtho[1,2-b]nor...	12.01	2.6	ng	174843	4	11.37	1327880	20.0
Naphthalene, 2-ph...	12.17	3.0	ng	200160	4	11.37	1327880	20.0
Phenanthrene, 2,5...	12.43	3.3	ng	217286	4	11.37	1327880	20.0
9,12-Octadecadien...	12.45	15.3	ng	1018090	4	11.37	1327880	20.0
9-Octadecenoic ac...	12.47	20.7	ng	1371880	4	11.37	1327880	20.0
Pyrene, 1-methyl-	13.04	2.5	ng	365753	5	14.02	2868490	20.0
11H-Benzo[b]fluorene	13.15	3.9	ng	555278	5	14.02	2868490	20.0
Fluoranthene, 2-m...	13.22	3.0	ng	434052	5	14.02	2868490	20.0
Benzo[e]pyrene	15.37	7.9	ng	675996	6	15.49	1707860	20.0