LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

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-BF121218.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	6.792	797	800	809	rBV	1367722	1194882	5.77%	0.548%
2	8.075	1015	1018	1021	rBV	1635013	1477122	7.13%	0.678%
3	9.492	1255	1259	1261	rBV	539522	468497	2.26%	0.215%
4	9.833	1311	1317	1320	rBV	1681439	1625466	7.85%	0.746%
5	9.863	1320	1322	1326	rVB	1493486	1178297	5.69%	0.541%
6	9.986	1339	1343	1348	rVV2	382749	456183	2.20%	0.209%
7	10.033	1348	1351	1355	rVV	863187	765467	3.69%	0.351%
8	10.151	1367	1371	1373	rBV	453691	414513	2.00%	0.190%
9	10.239	1382	1386	1392	rBV2	413846	708018	3.42%	0.325%
10	10.375	1406	1409	1416	rBV2	1225230	1270447	6.13%	0.583%
11	10.445	1416	1421	1423	rVV	732069	949780	4.58%	0.436%
12	10.469	1423	1425	1427	rVV2	459136	388816	1.88%	0.178%
13	10.533	1434	1436	1442	rVB2	692974	882173	4.26%	0.405%
14	10.616	1447	1450	1454	rVV2	663950	795831	3.84%	0.365%
15	10.663	1454	1458	1463	rVB3	250004	404576	1.95%	0.186%
16	10.745	1467	1472	1479	rVB3	629621	752309	3.63%	0.345%
17	10.927	1497	1503	1506	rVV3	732298	1168776	5.64%	0.536%
18	10.957	1506	1508	1511	rVV2	693224	690207	3.33%	0.317%
19	11.010	1514	1517	1520	rVB4	544137	610085	2.94%	0.280%
20	11.057	1523	1525	1527	rVV	574998	622529	3.00%	0.286%
21	11.080	1527	1529	1533	rVV2	811619	871419	4.21%	0.400%
22	11.122	1533	1536	1540	rVV	972580	1015623	4.90%	0.466%
23	11.169	1540	1544	1547	rVV2	749433	1028383	4.96%	0.472%
24	11.216	1549	1552	1558	rVB	879774	1066116	5.15%	0.489%
25	11.322	1563	1570	1571	rBV	1226564	1463542	7.06%	0.672%
26	11.351	1571	1575	1578	rVV	9655142	11269208	54.39%	5.172%
27	11.398	1578	1583	1586	rVV	4688218	3891983	18.79%	1.786%
28	11.427	1586	1588	1591	rVV2	599945	545555	2.63%	0.250%
29	11.545	1606	1608	1611	rVV	586496	528311	2.55%	0.242%
30	11.616	1617	1620	1622	rVV2	780289	626974	3.03%	0.288%
31	11.651	1622	1626	1628	rVB2	980050	831338	4.01%	0.382%
32	11.733	1637	1640	1643	rVB	454884	439294	2.12%	0.202%
33	11.774	1644	1647	1650	rBV	429062	388948	1.88%	0.179%
34	11.822	1651	1655	1658	rVV	3505035	3703024	17.87%	1.700%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

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-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.851	1658	1660	1665	rVB	4697530	4302447	20.77%	1.975%
36	11.898	1665	1668	1671	rBV	2238436	2164968	10.45%	0.994%
37	11.939	1671	1675	1677	rVV	5401930	6507871	31.41%	2.987%
38	11.963	1677	1679	1682	rVB	3320809	2541443	12.27%	1.166%
39	12.057	1692	1695	1697	rVB	571626	485318	2.34%	0.223%
40	12.098	1697	1702	1703	rBV3	356733	441954	2.13%	0.203%
41	12.116	1703	1705	1708	rVV	2424948	2364382	11.41%	1.085%
42	12.145	1708	1710	1715	rVB2	1877525	1671623	8.07%	0.767%
43	12.192	1715	1718	1720	rBV	704871	539324	2.60%	0.248%
44	12.269	1725	1731	1733	rBV2	1509263	1950458	9.41%	0.895%
45	12.298	1733	1736	1738	rVV	1333735	1191700	5.75%	0.547%
46	12.322	1738	1740	1743	rVB	1085866	907658	4.38%	0.417%
47	12.374	1743	1749	1752	rBV	3064399	4107178	19.82%	1.885%
48	12.416	1752	1756	1761	rVV3	2043061	3609589	17.42%	1.657%
49	12.469	1761	1765	1771	rVV2	2321028	3145360	15.18%	1.444%
50	12.557	1771	1780	1782	rVV	11269604	18092657	87.33%	8.304%
51	12.586	1782	1785	1786	rVV	637412	736321	3.55%	0.338%
52	12.598	1786	1787	1795	rVB4	989602	1122671	5.42%	0.515%
53	12.686	1795	1802	1804	rBV2	1258344	1779152	8.59%	0.817%
54	12.733	1808	1810	1812	rVV	471481	389517	1.88%	0.179%
55	12.786	1812	1819	1822	rVV3	11206052	20717899	100.00%	9.509%
56	12.816	1822	1824	1829	rVB2	1309629	1835765	8.86%	0.843%
57	12.880	1829	1835	1837	rBV2	1341990	1630775	7.87%	0.748%
58	12.921	1840	1842	1846	rVB2	1373710	1381615	6.67%	0.634%
59	12.986	1847	1853	1856	rBV3	2012916	3401710	16.42%	1.561%
60	13.039	1860	1862	1864	rBV2	525307	550487	2.66%	0.253%
61	13.069	1864	1867	1869	rVV2	1459513	1832911	8.85%	0.841%
62	13.092	1869	1871	1874	rVB	3048240	2834034	13.68%	1.301%
63	13.157	1878	1882	1885	rBV	1661616	1665671	8.04%	0.764%
64	13.198	1885	1889	1891	rVV2	2809682	2863987	13.82%	1.314%
65	13.221	1891	1893	1896	rVV2	595114	683884	3.30%	0.314%
66	13.251	1896	1898	1901	rVB	418987	378045	1.82%	0.174%
67	13.292	1901	1905	1907	rBV	1829005	1546455	7.46%	0.710%
68	13.321	1907	1910	1913	rVB	1869579	1672225	8.07%	0.767%
69	13.398	1919	1923	1927	rVB4	599667	876785	4.23%	0.402%
70	13.492	1937	1939	1941	rVV3	592838	663277	3.20%	0.304%
71	13.516	1941	1943	1945	rVV	635438	606282	2.93%	0.278%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

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-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.598	1951	1957	1962	rVV	1679586	2453473	11.84%	1.126%
73	13.710	1972	1976	1979	rBV2	1768698	2335166	11.27%	1.072%
74	13.739	1979	1981	1983	rVV	1956985	1614142	7.79%	0.741%
75	13.763	1983	1985	1990	rVV2	1370335	1914972	9.24%	0.879%
76	13.810	1990	1993	1999	rVB	1640890	1755921	8.48%	0.806%
77	13.963	2012	2019	2021	rBV	6912350	10173784	49.11%	4.669%
78	13.998	2021	2025	2032	rVB	6959541	8525559	41.15%	3.913%
79	14.068	2035	2037	2041	rVB	1142990	1050453	5.07%	0.482%
80	14.145	2048	2050	2053	rVB2	606871	555376	2.68%	0.255%
81	14.180	2053	2056	2060	rBV2	692868	849399	4.10%	0.390%
82	14.280	2070	2073	2076	rBV4	429587	441868	2.13%	0.203%
83	14.310	2076	2078	2080	rBV	596195	543719	2.62%	0.250%
84	14.351	2080	2085	2087	rVV	1950453	2147875	10.37%	0.986%
85	14.380	2087	2090	2094	rVB	1240368	1115904	5.39%	0.512%
86	14.439	2094	2100	2103	rBV3	780713	1354218	6.54%	0.622%
87	14.474	2103	2106	2107	rBV2	858915	754221	3.64%	0.346%
88	14.492	2107	2109	2112	rVB2	890960	795755	3.84%	0.365%
89	14.539	2113	2117	2123	rVB3	638832	962421	4.65%	0.442%
90	14.651	2132	2136	2138	rBV3	493325	663474	3.20%	0.305%
91	14.727	2147	2149	2152	rBV2	348130	399827	1.93%	0.184%
92	15.004	2189	2196	2198	rBV	4498155	8147690	39.33%	3.739%
93	15.098	2209	2212	2216	rVB	1171524	1173788	5.67%	0.539%
94	15.292	2240	2245	2250	rVB	2849693	4337257	20.93%	1.991%
95	15.357	2250	2256	2260	rVB	4112790	5997673	28.95%	2.753%
96	15.410	2261	2265	2267	rVV	579942	814270	3.93%	0.374%
97	15.439	2267	2270	2277	rVB2	1573253	2121003	10.24%	0.973%
98	15.951	2354	2357	2367	rVB3	318176	488524	2.36%	0.224%
99	16.839	2502	2508	2515	rVB2	1736733	3557380	17.17%	1.633%
100	17.274	2575	2582	2596	rVB	1305228	3152384	15.22%	1.447%

Sum of corrected areas: 217884586

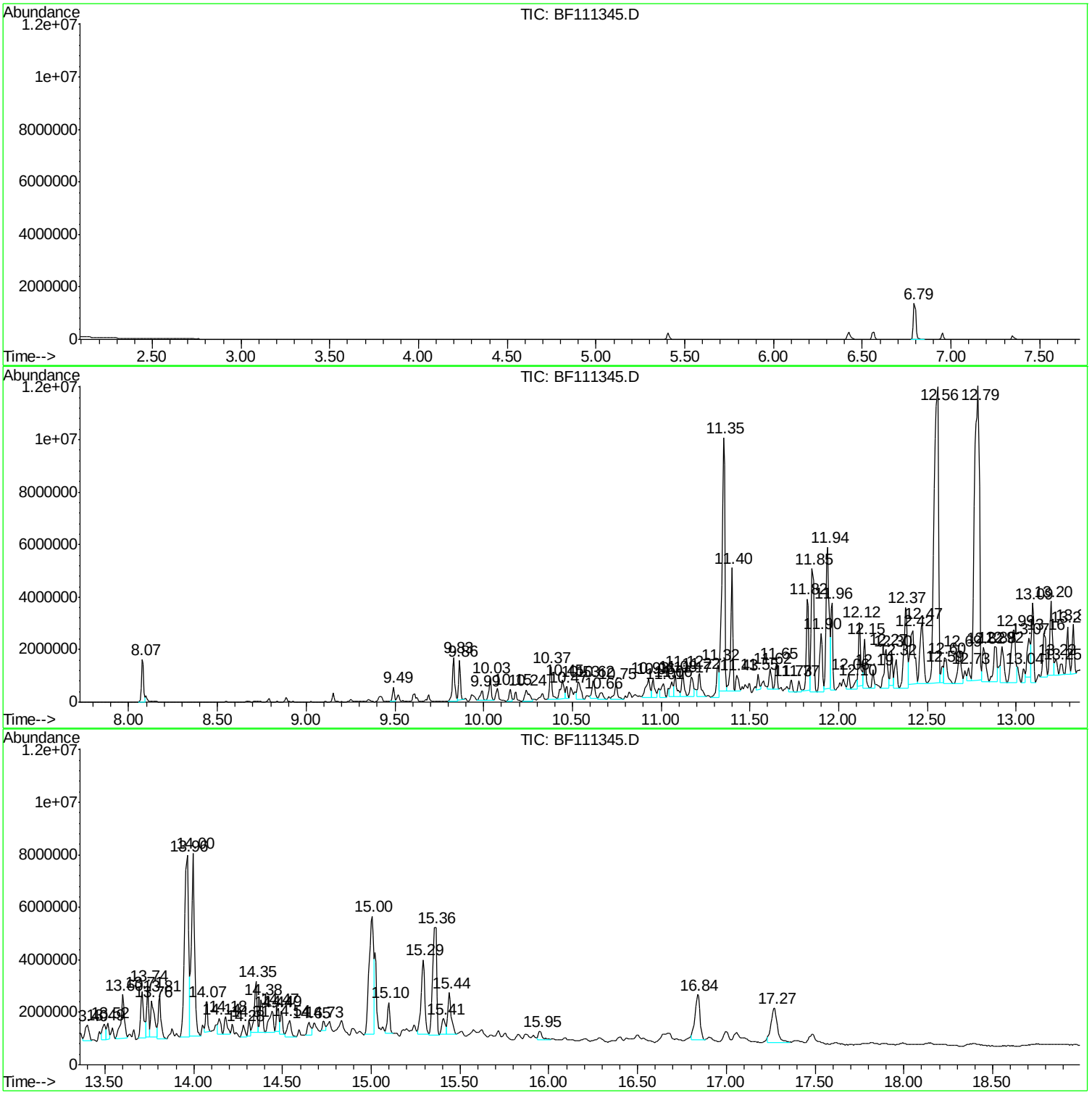
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

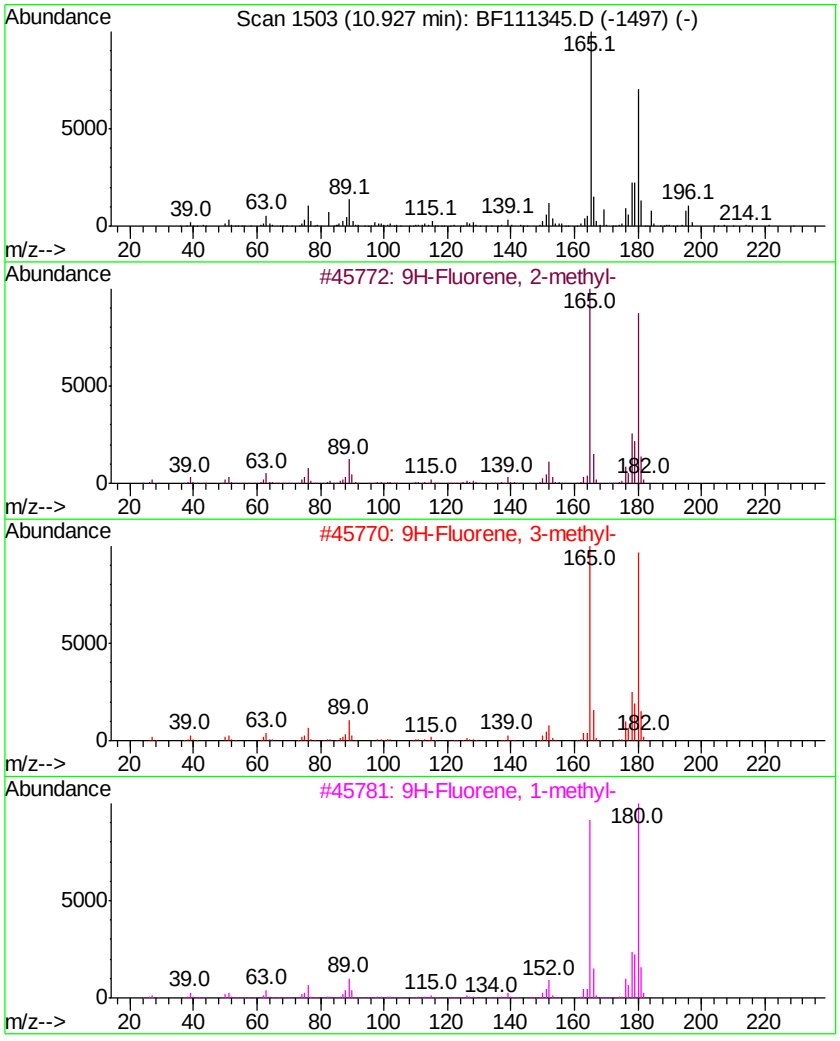
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

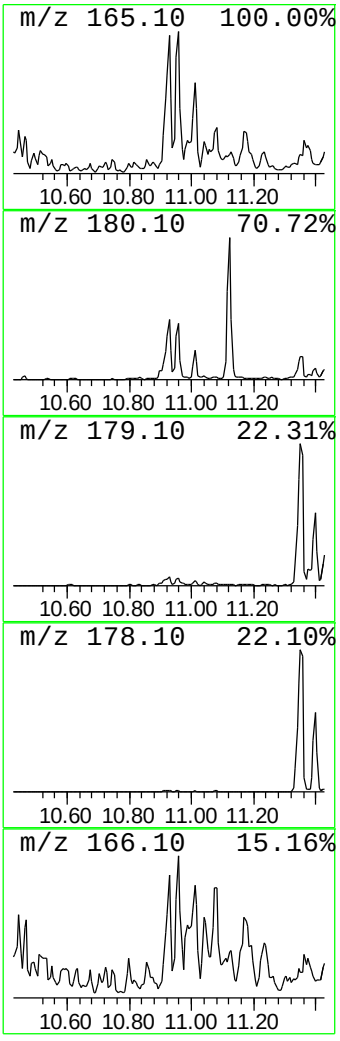
****

Peak Number 1 9H-Fluorene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	15.97 ng	1168780	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

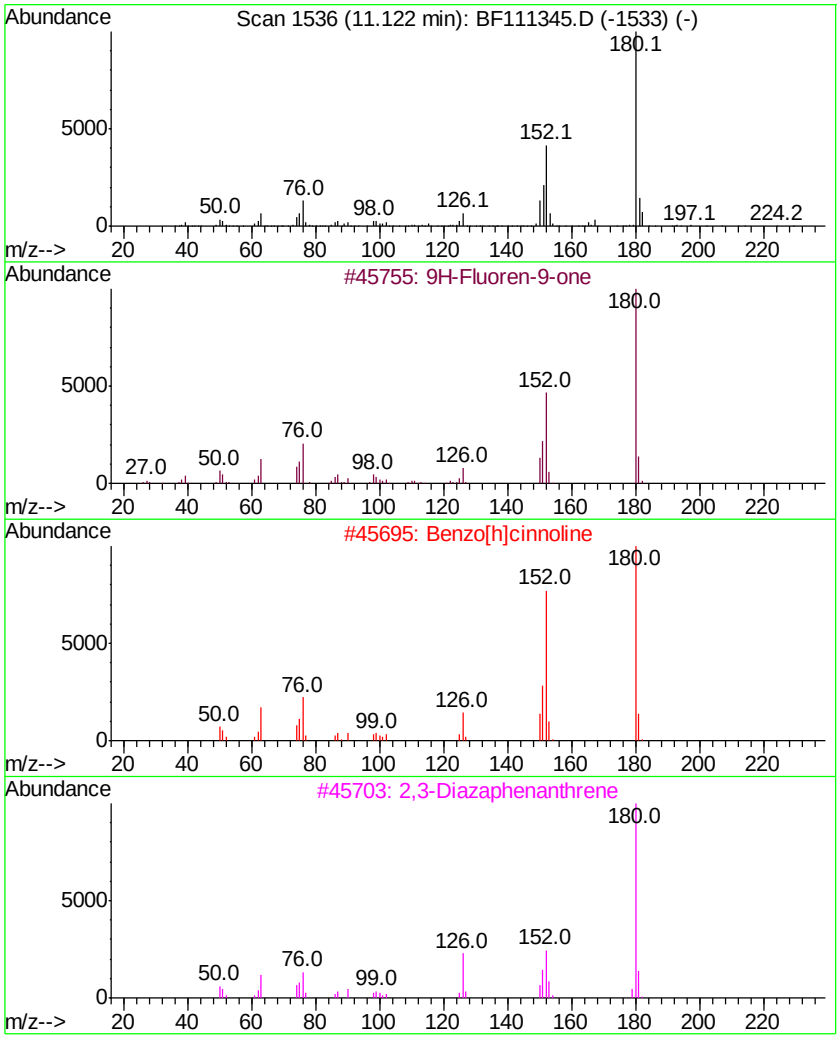
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

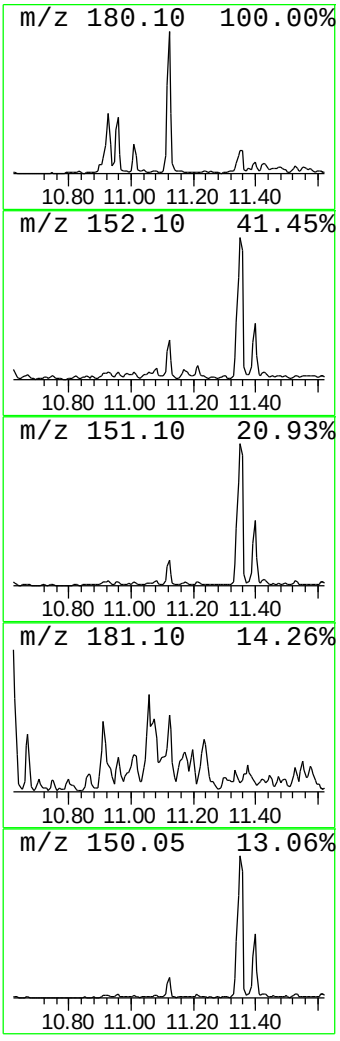
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	13.88 ng	1015620	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	64
4	Acridine, 9,10-dihydro-	181	C13H11N	000092-81-9	64
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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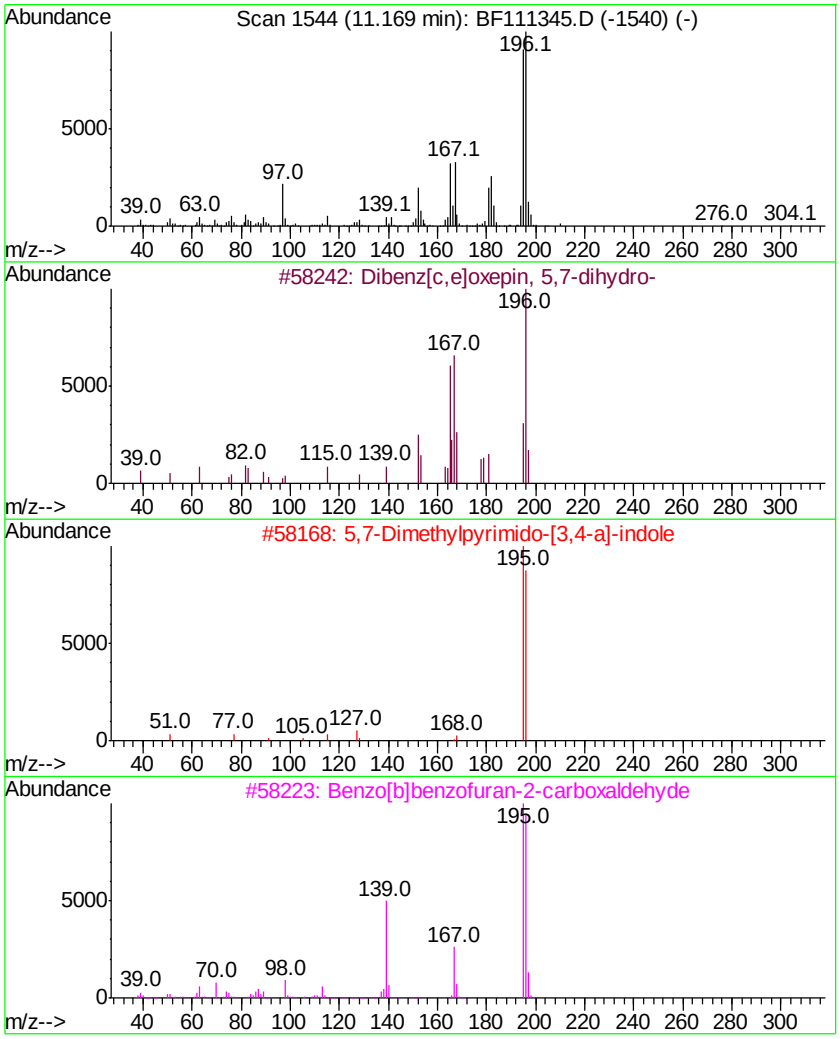
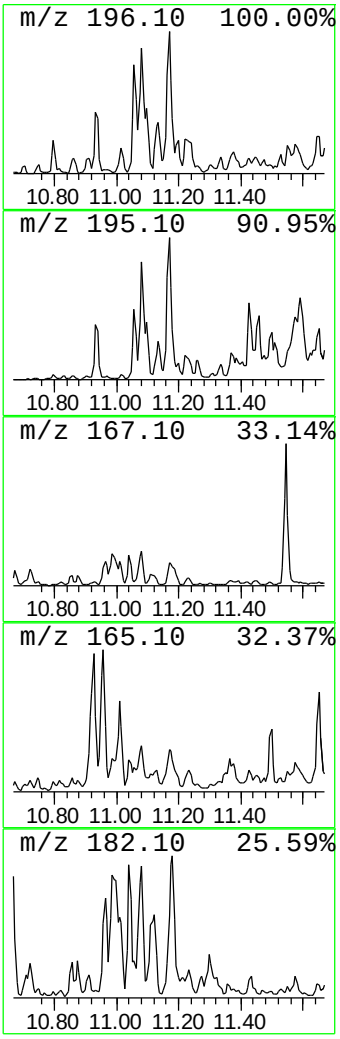
Peak Number 3 unknown11.17 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.17	14.05 ng	1028380	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	45
2	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	43
3	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	43
4	9H-Fluorene-2,7-diamine	196	C13H12N2	000525-64-4	38
5	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

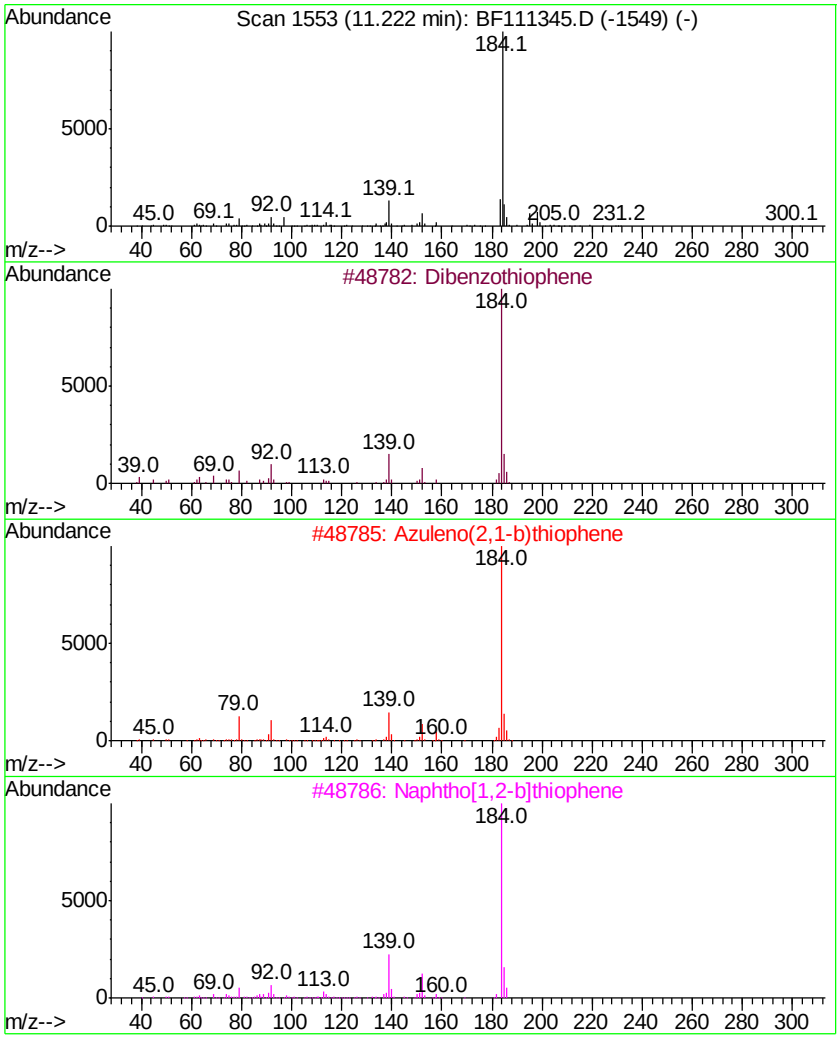
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

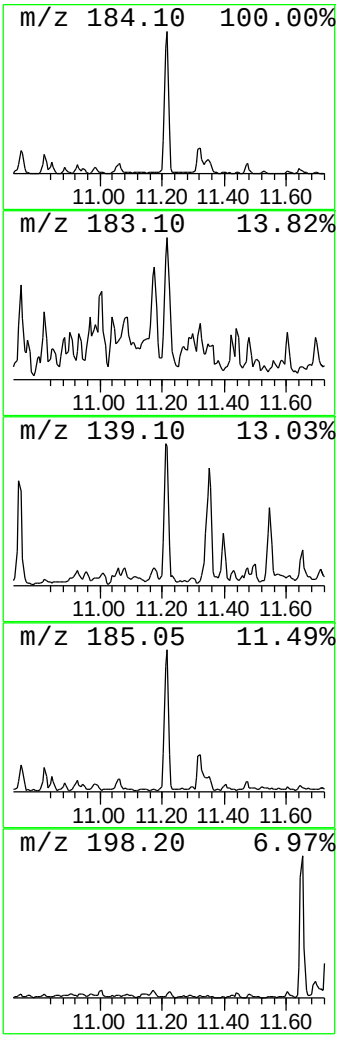
****

Peak Number 4 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	14.57 ng	1066120	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	91
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

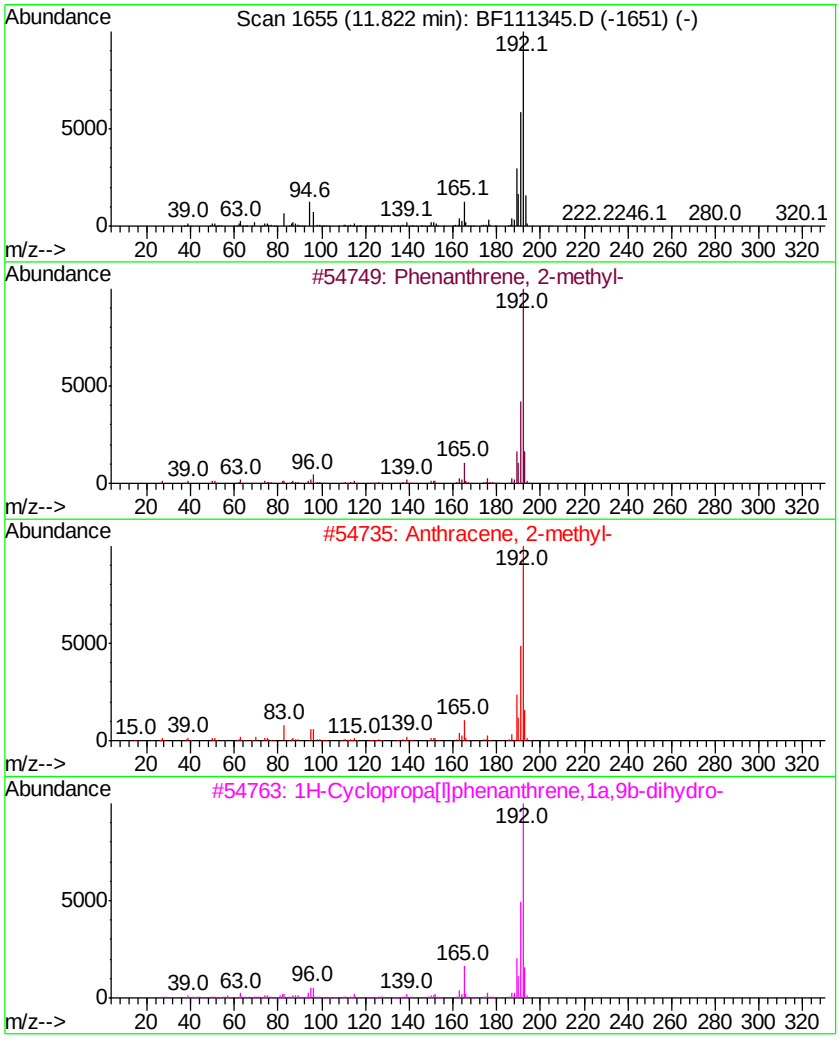
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

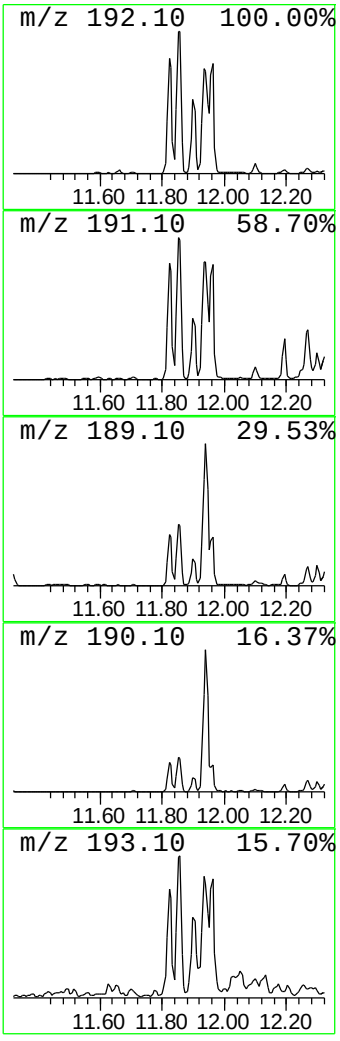
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	50.60 ng	3703020	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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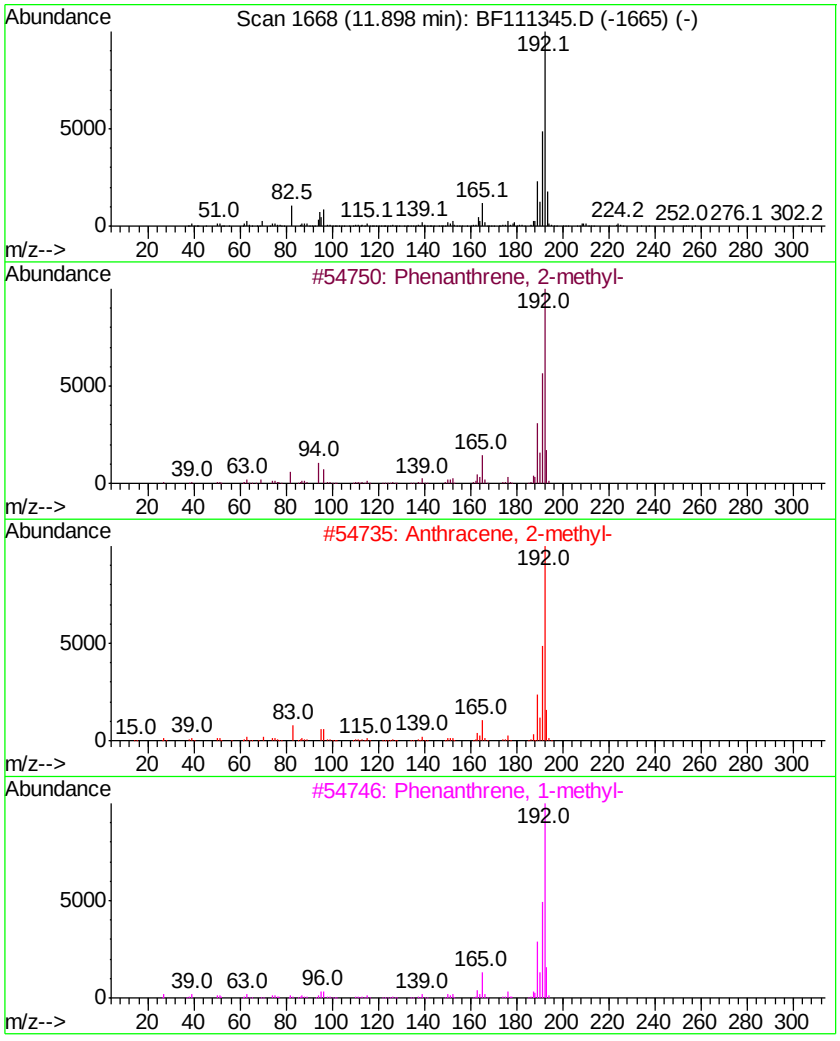
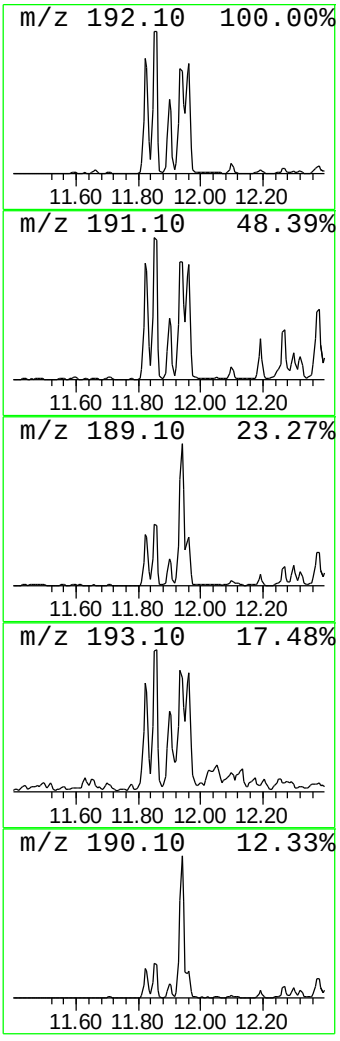
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	29.59 ng	2164970	Phenanthrene-d10	11.32

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	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96





Library Search Compound Report

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Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

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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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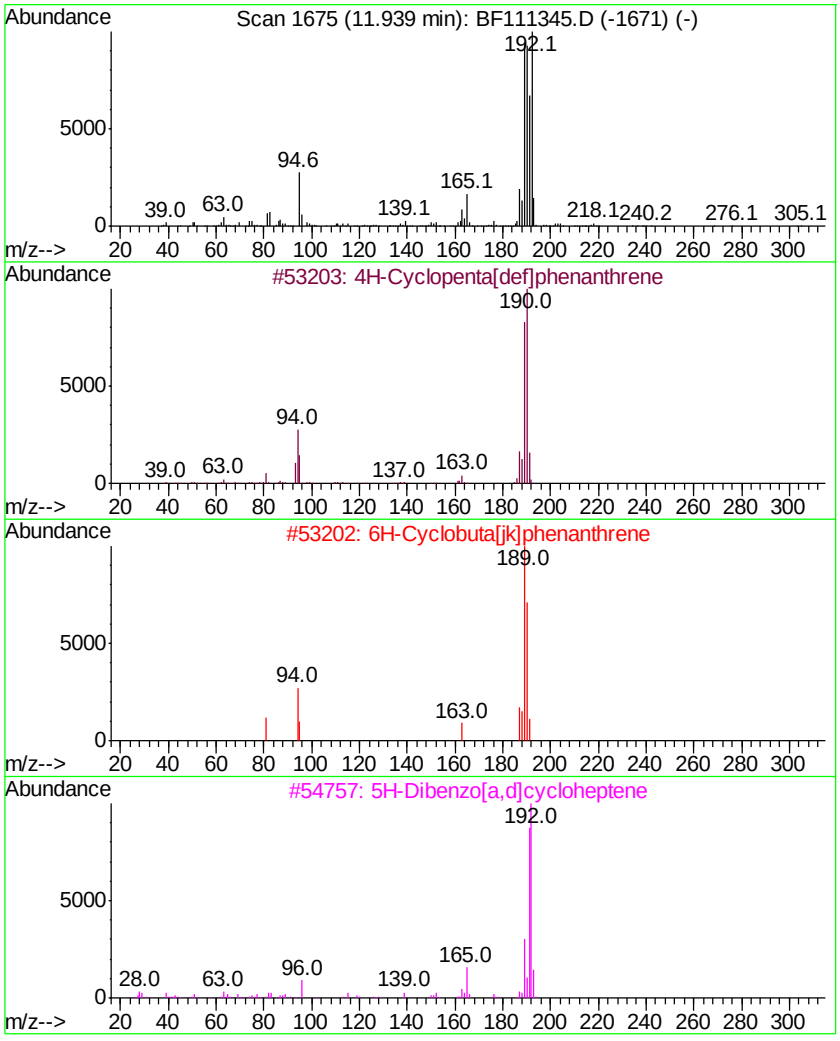
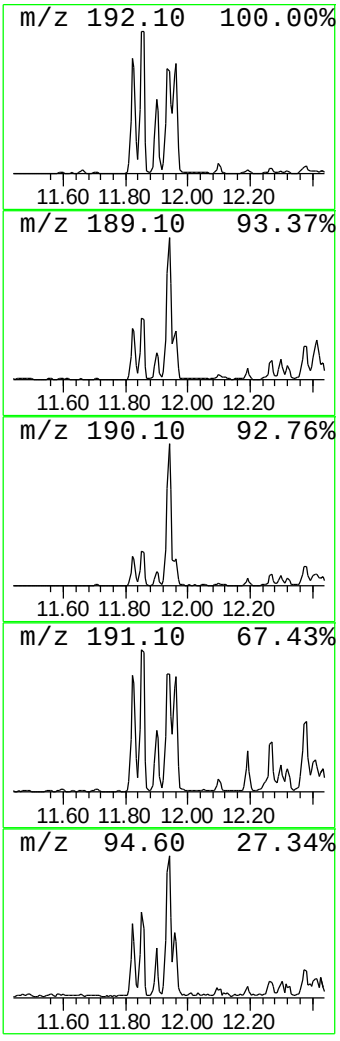
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	88.93 ng	6507870	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	41





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Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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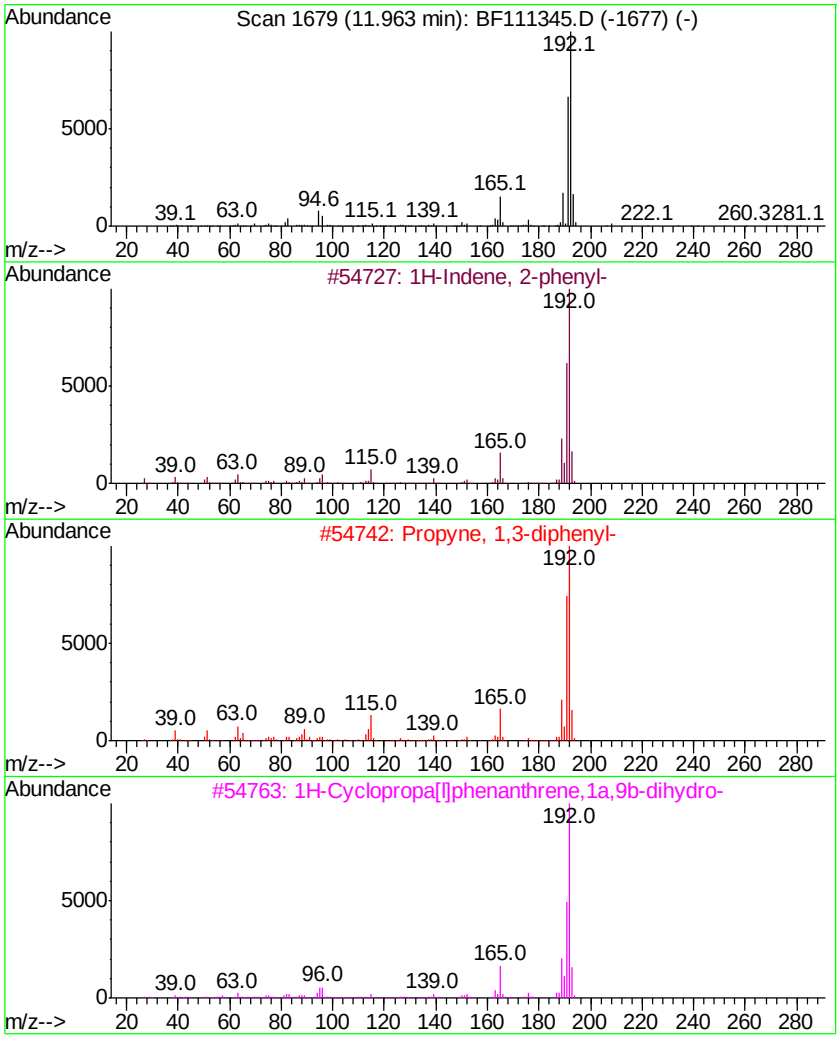
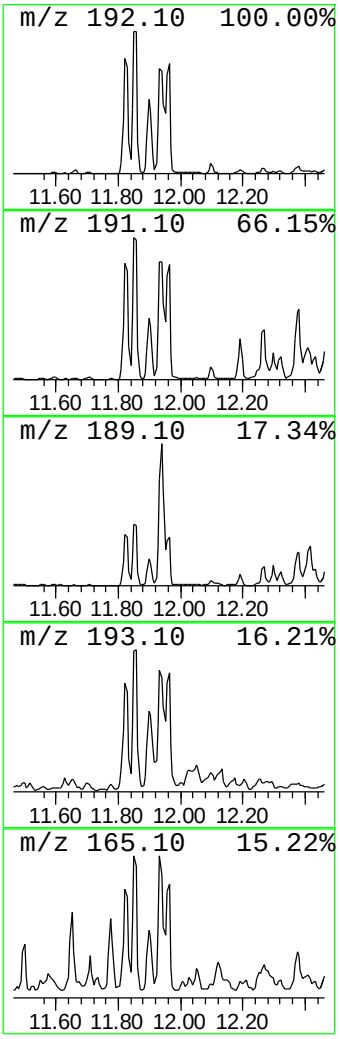
Peak Number 9 1H-Indene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	34.73 ng	2541440	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
2	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	90
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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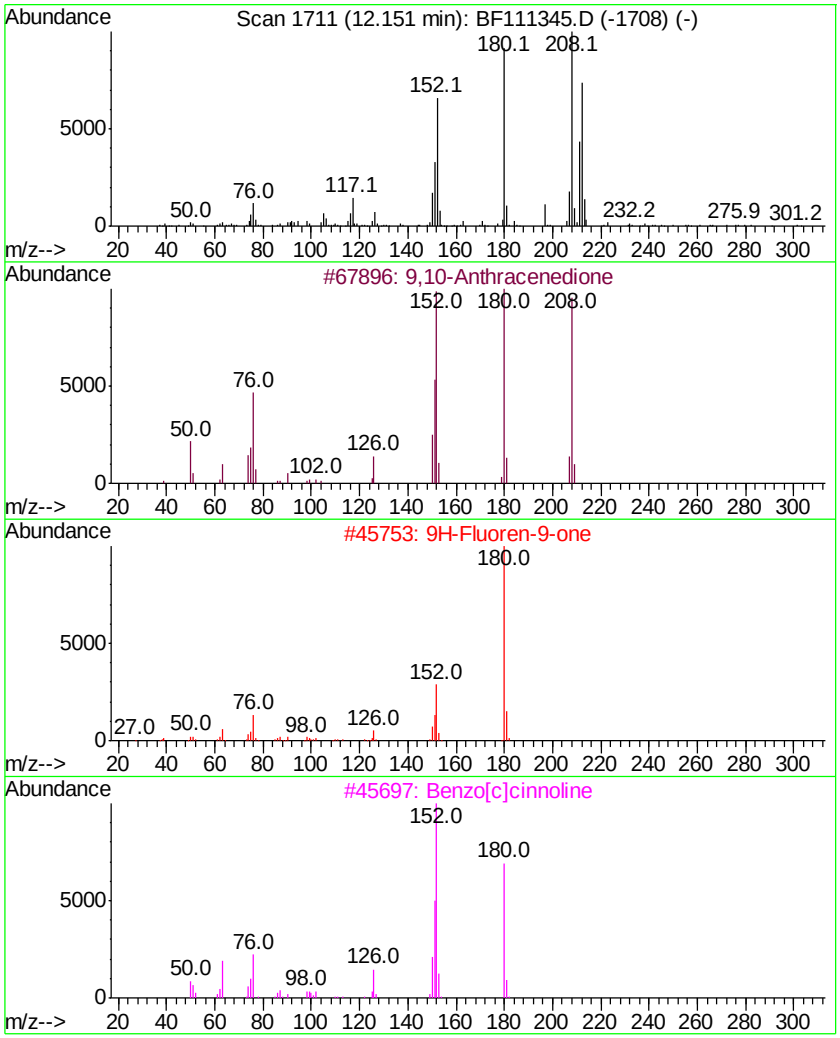
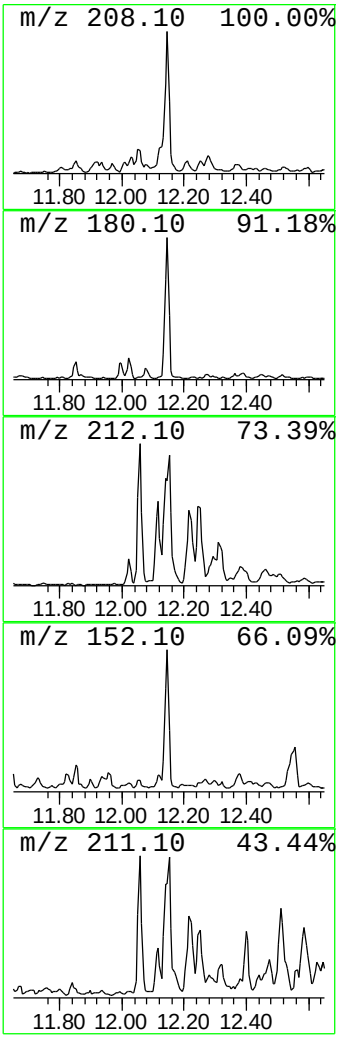
Peak Number 11 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	22.84 ng	1671620	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	49





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Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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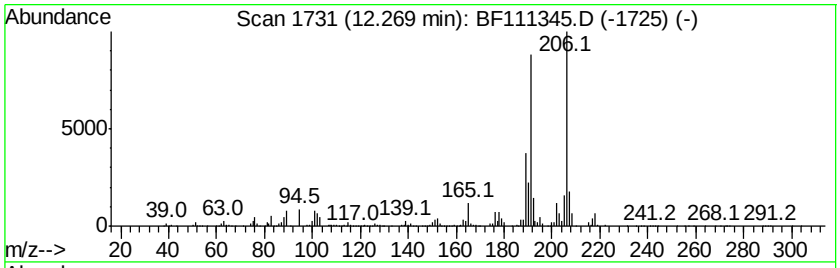
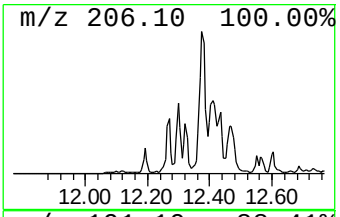
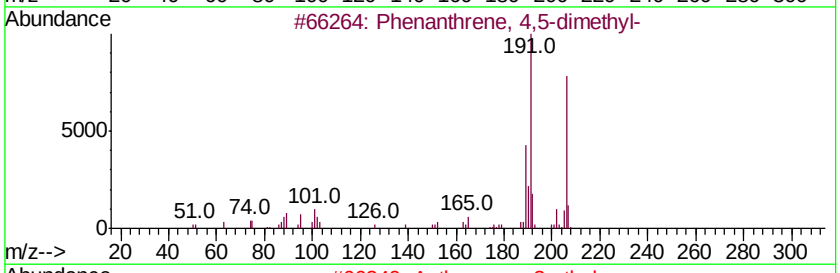
Peak Number 12 Phenanthrene, 4,5-dimethyl- Concentration Rank 12

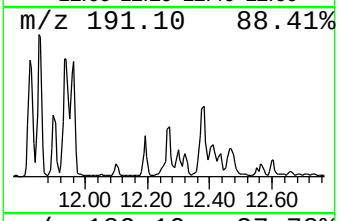
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	26.65 ng	1950460	Phenanthrene-d10	11.32

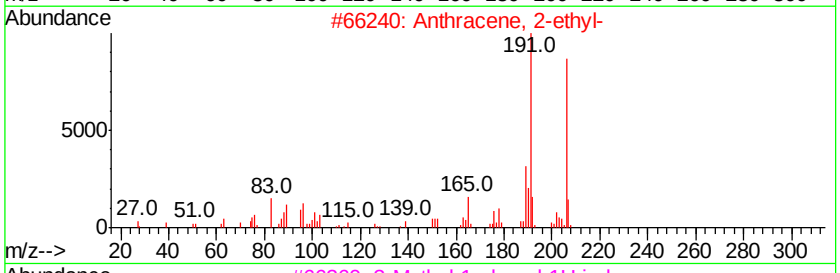
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	87
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	83
5	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	81

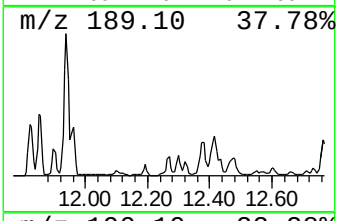


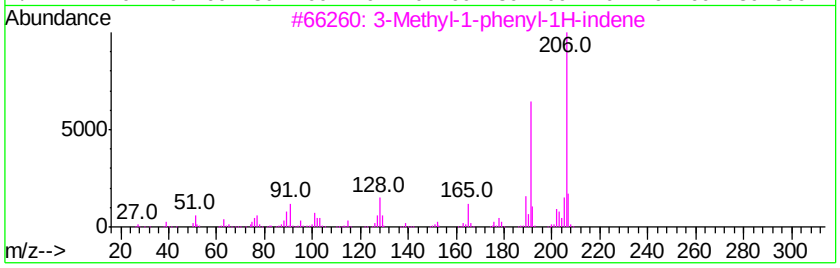


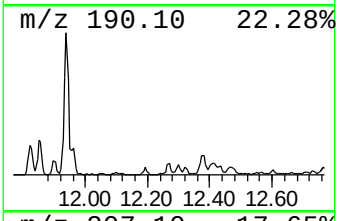


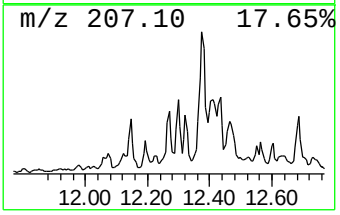












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Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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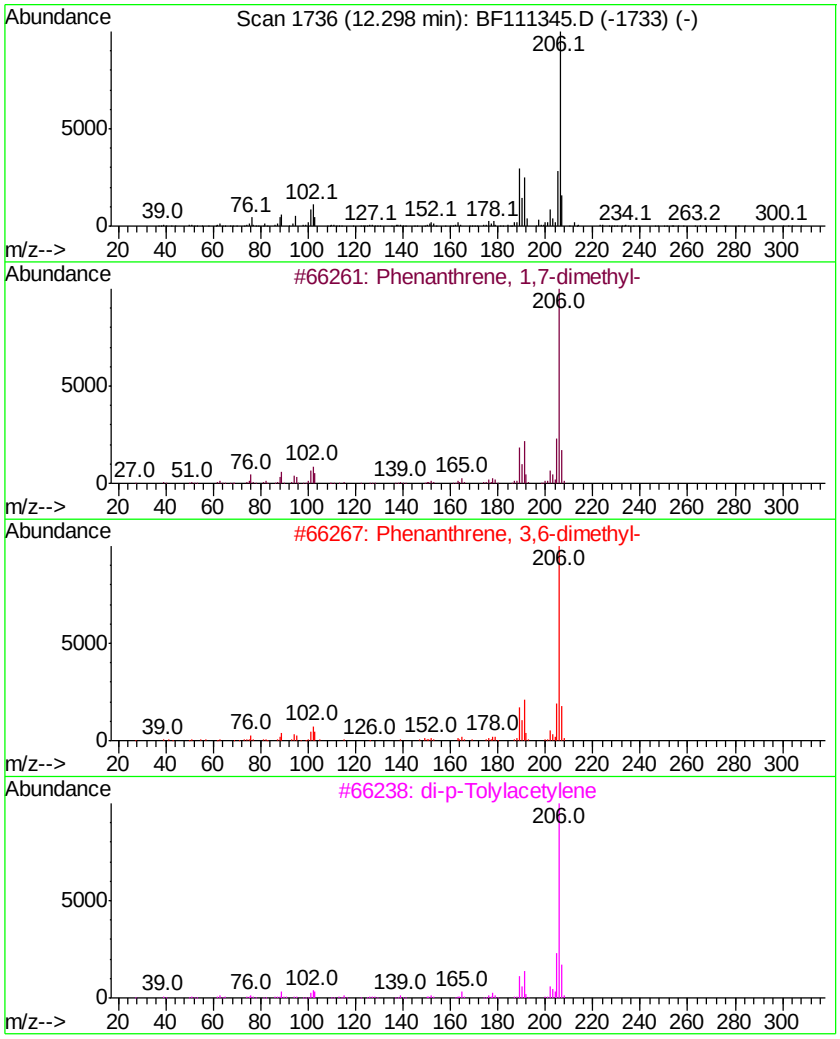
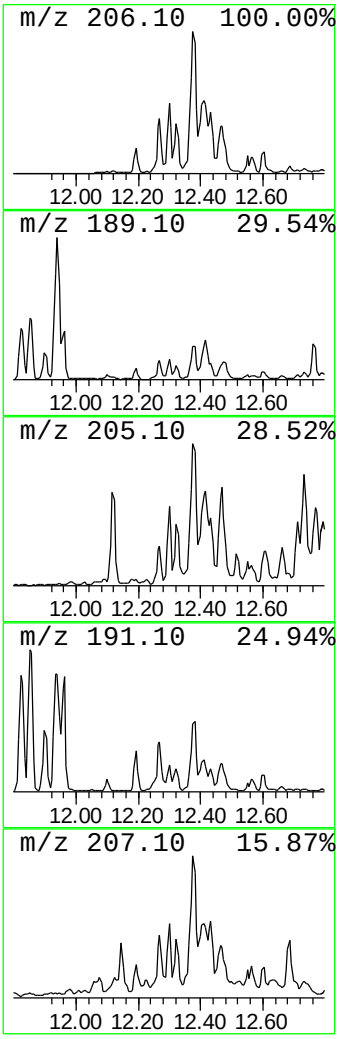
Peak Number 13 Phenanthrene, 1,7-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	16.29 ng	1191700	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	80
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	80





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Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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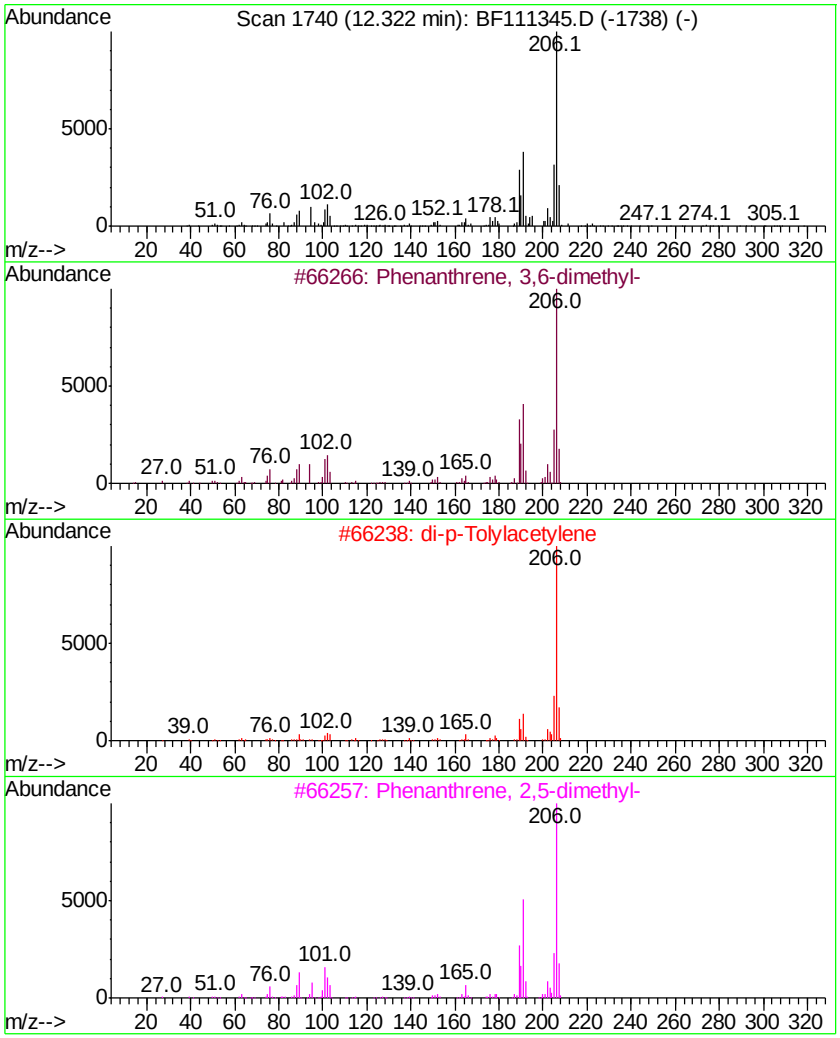
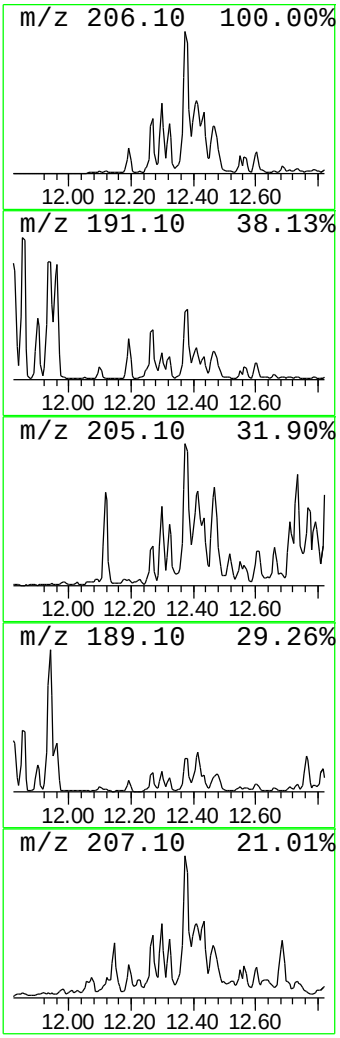
Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	12.40 ng	907658	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87





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Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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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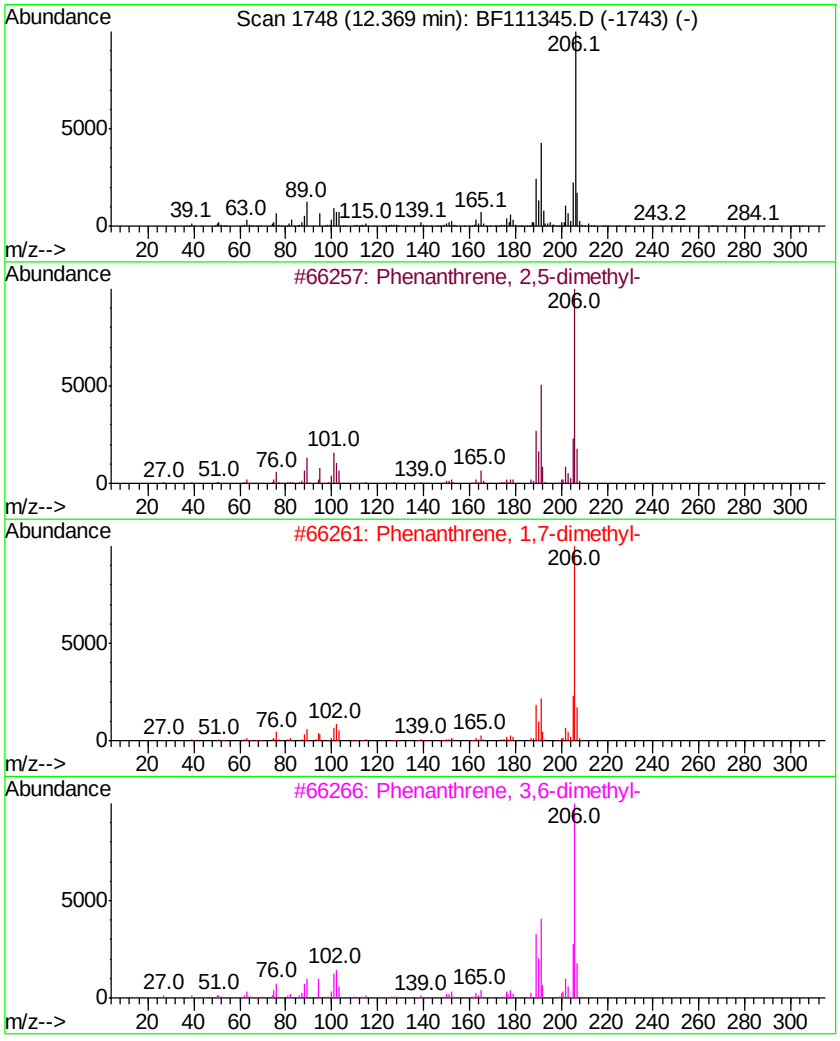
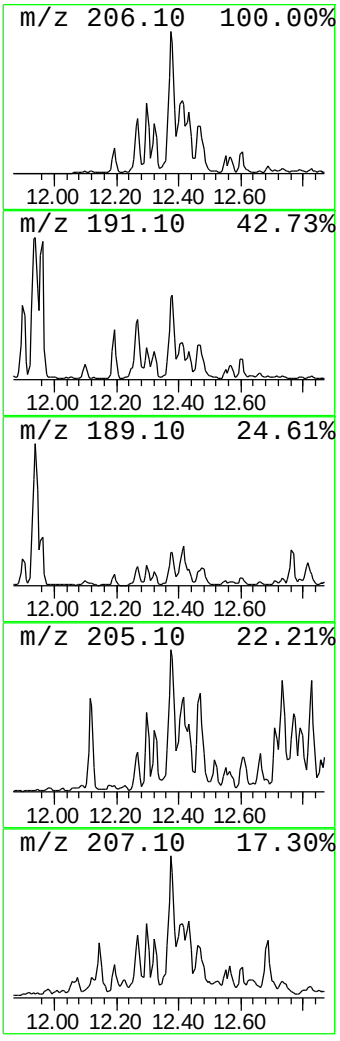
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	56.13 ng	4107180	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93





Library Search Compound Report

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Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

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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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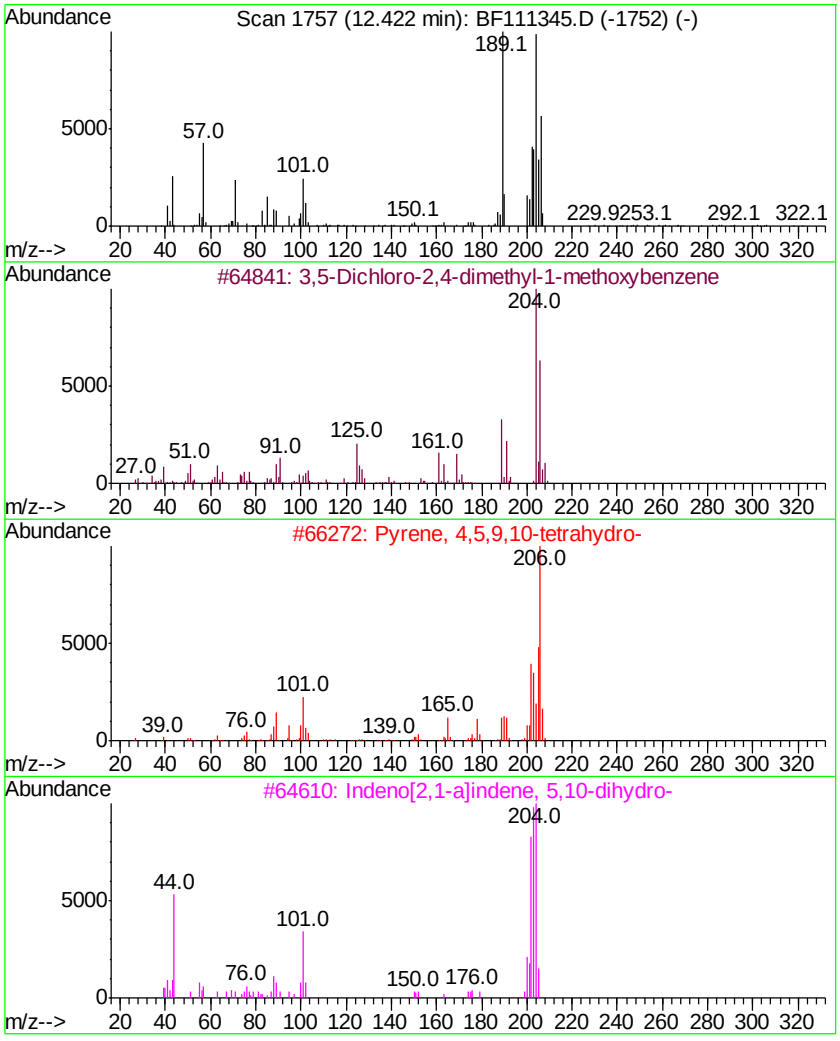
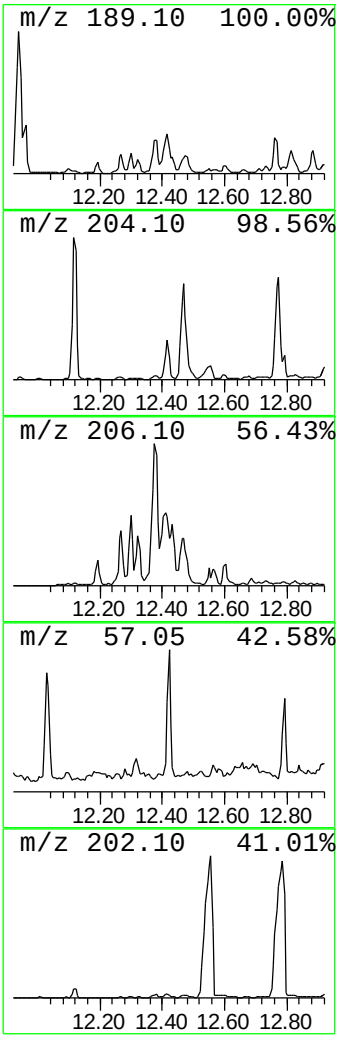
Peak Number 16 unknown12.42 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	49.33 ng	3609590	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	43
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
5	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35





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ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

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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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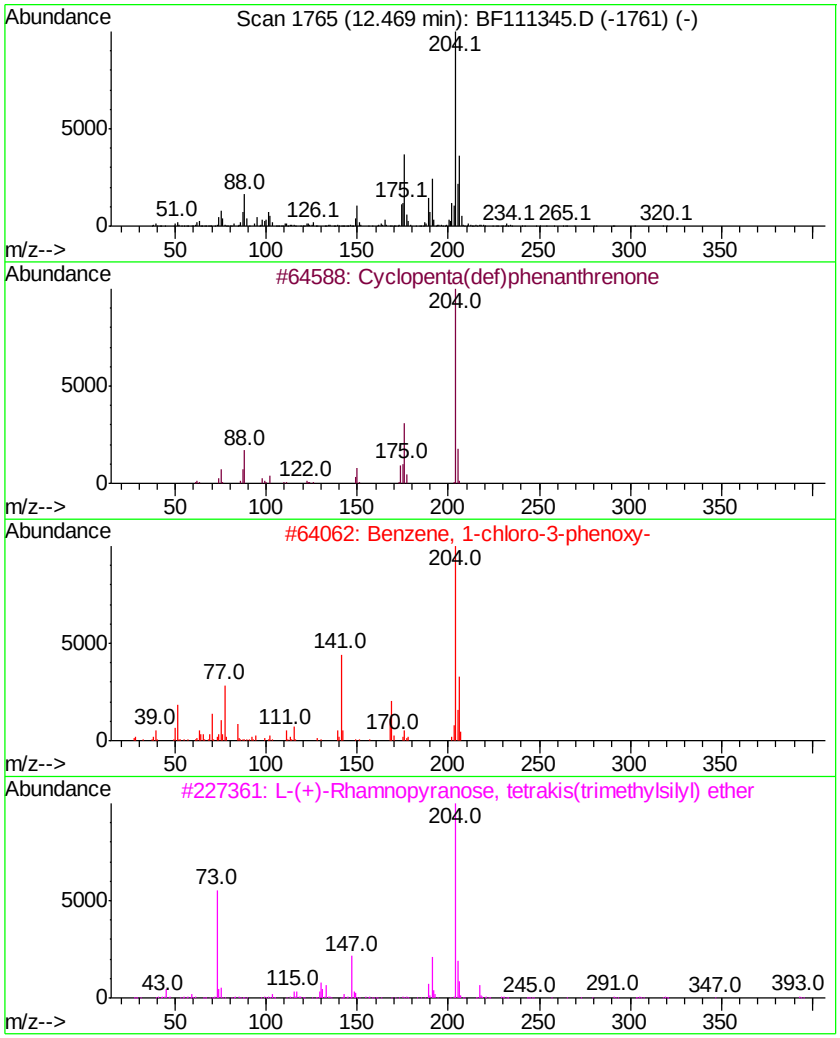
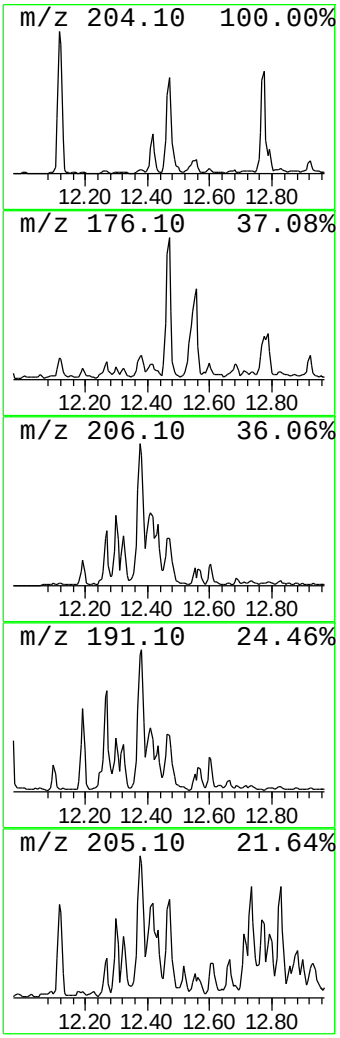
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	42.98 ng	3145360	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	50
3	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	50
4	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	50
5	Benzene, 1-chloro-4-phenoxy-	204	C12H9ClO	007005-72-3	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

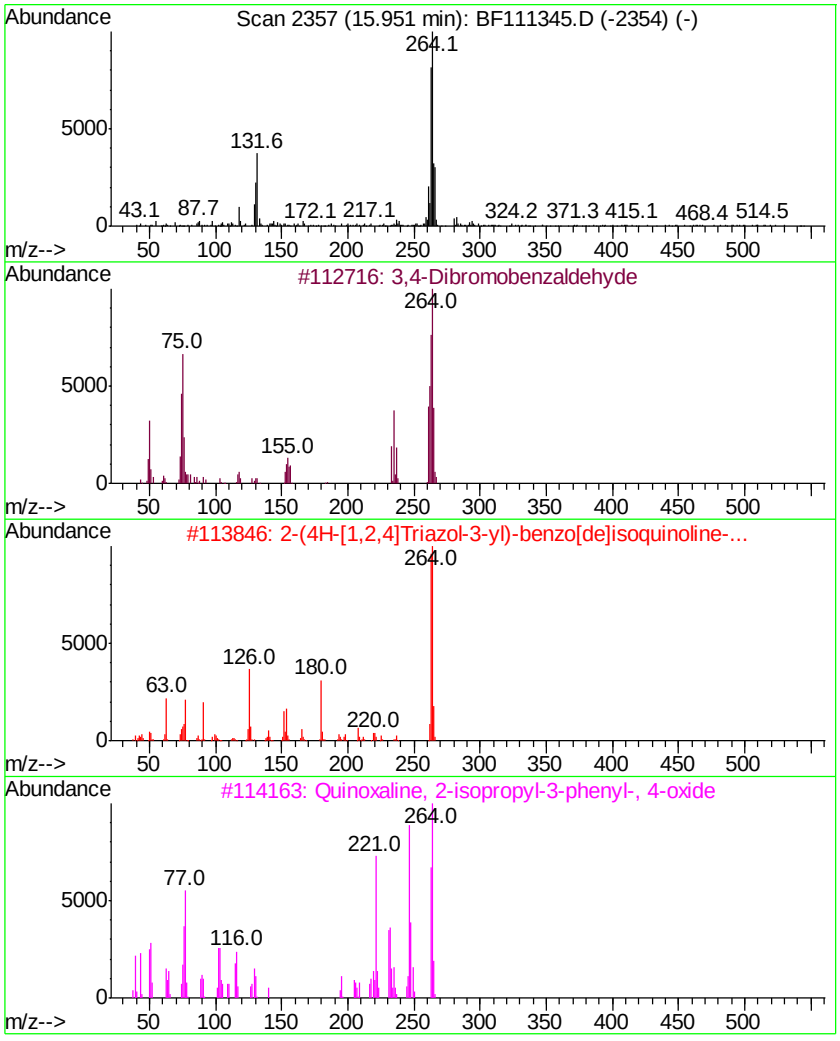
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

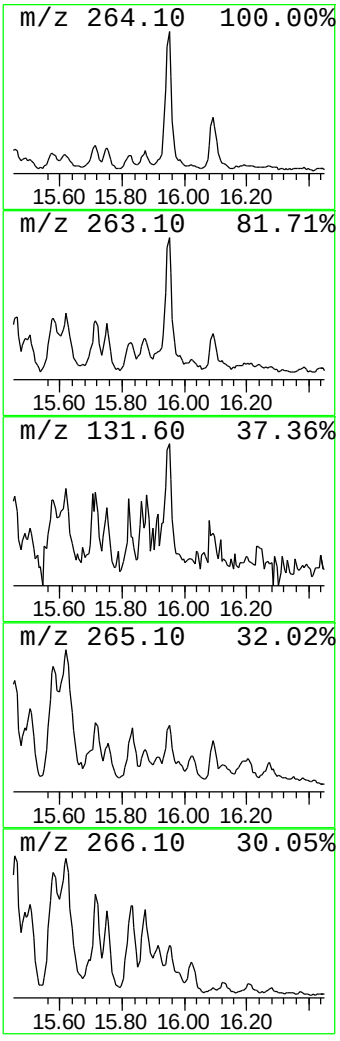
****

Peak Number 20 3,4-Dibromobenzaldehyde Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.95	12.00 ng	488524	Perylene-d12	15.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	64
2	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	50
3	Quinoxaline, 2-isopropyl-3-phenyl...	264	C17H16N2O	016007-79-7	49
4	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35
5	2-Oxo-6-phenyl-4-(4-hydroxypheny...	264	C16H12N2O2	161200-20-0	32





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
Data File : BF111345.D
Acq On : 13 Dec 2018 2:08
Operator : JU/SJ
Sample : J6214-43 20X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(12.5-14.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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
9H-Fluorene, 2-me...	10.93	16.0	ng	1168780	4	11.32	1463540	20.0
9H-Fluoren-9-one	11.12	13.9	ng	1015620	4	11.32	1463540	20.0
unknown11.17	11.17	14.1	ng	1028380	4	11.32	1463540	20.0
Dibenzothiophene	11.22	14.6	ng	1066120	4	11.32	1463540	20.0
Phenanthrene, 2-m...	11.82	50.6	ng	3703020	4	11.32	1463540	20.0
Phenanthrene, 1-m...	11.90	29.6	ng	2164970	4	11.32	1463540	20.0
4H-Cyclopenta[def...	11.94	88.9	ng	6507870	4	11.32	1463540	20.0
1H-Indene, 2-phenyl-	11.96	34.7	ng	2541440	4	11.32	1463540	20.0
9,10-Anthracenedione	12.15	22.8	ng	1671620	4	11.32	1463540	20.0
Phenanthrene, 4,5...	12.27	26.6	ng	1950460	4	11.32	1463540	20.0
Phenanthrene, 1,7...	12.30	16.3	ng	1191700	4	11.32	1463540	20.0
Phenanthrene, 3,6...	12.32	12.4	ng	907658	4	11.32	1463540	20.0
Phenanthrene, 2,5...	12.37	56.1	ng	4107180	4	11.32	1463540	20.0
unknown12.42	12.42	49.3	ng	3609590	4	11.32	1463540	20.0
Cyclopenta(def)ph...	12.47	43.0	ng	3145360	4	11.32	1463540	20.0
3,4-Dibromobenzal...	15.95	12.0	ng	488524	6	15.41	814270	20.0