LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

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-BF082720.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	5.469	571	575	582	rBV	462992	499561	3.28%	0.285%
2	6.481	743	747	759	rVB	487595	527326	3.46%	0.301%
3	6.863	808	812	820	rBV	1862421	1526913	10.01%	0.871%
4	7.416	903	906	913	rBV	340972	316352	2.07%	0.180%
5	8.145	1026	1030	1032	rBV	2396459	1887974	12.38%	1.076%
6	9.222	1209	1213	1218	rBV	772187	711100	4.66%	0.405%
7	9.486	1253	1258	1262	rBV	226219	317550	2.08%	0.181%
8	9.557	1266	1270	1273	rBV	499592	480219	3.15%	0.274%
9	9.674	1287	1290	1296	rBV	256510	284111	1.86%	0.162%
10	9.763	1298	1305	1309	rBV	1066396	1027662	6.74%	0.586%
11	9.898	1322	1328	1331	rBV	2209699	2231227	14.63%	1.272%
12	9.933	1331	1334	1337	rVB	1178921	941803	6.18%	0.537%
13	10.057	1350	1355	1358	rVV2	261594	293546	1.93%	0.167%
14	10.104	1359	1363	1366	rVV	875201	767832	5.04%	0.438%
15	10.139	1366	1369	1374	rVB	253685	254215	1.67%	0.145%
16	10.216	1379	1382	1385	rBV	263820	261565	1.72%	0.149%
17	10.310	1393	1398	1399	rBV	248274	283663	1.86%	0.162%
18	10.451	1418	1422	1427	rBV	1472681	1447937	9.50%	0.825%
19	10.516	1427	1433	1434	rBV	431206	568266	3.73%	0.324%
20	10.533	1434	1436	1438	rVV2	379317	316336	2.07%	0.180%
21	10.563	1438	1441	1443	rVV	240065	264631	1.74%	0.151%
22	10.604	1446	1448	1454	rVV	530555	527559	3.46%	0.301%
23	10.686	1457	1462	1466	rVV	921571	953025	6.25%	0.543%
24	10.816	1478	1484	1487	rBV3	254964	319484	2.10%	0.182%
25	10.998	1508	1515	1517	rBV3	670995	924679	6.06%	0.527%
26	11.021	1517	1519	1522	rVV2	477953	478145	3.14%	0.273%
27	11.080	1526	1529	1532	rVB	391501	363840	2.39%	0.207%
28	11.121	1532	1536	1538	rBV2	328471	484755	3.18%	0.276%
29	11.145	1538	1540	1542	rVV2	456647	448336	2.94%	0.256%
30	11.192	1545	1548	1552	rVV2	597785	575382	3.77%	0.328%
31	11.251	1552	1558	1561	rVV2	763642	1120681	7.35%	0.639%
32	11.286	1561	1564	1570	rVB	1012976	981449	6.44%	0.560%
33	11.392	1578	1582	1583	rBV	1891064	1884420	12.36%	1.074%
34	11.421	1583	1587	1590	rVV	9717128	11201282	73.47%	6.386%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

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-BF082720.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.468	1590	1595	1597	rVV	3689719	2985894	19.58%	1.702%
36	11.498	1597	1600	1603	rVB2	386762	409355	2.68%	0.233%
37	11.616	1615	1620	1622	rBV2	685443	692015	4.54%	0.395%
38	11.686	1630	1632	1634	rBV	510383	338435	2.22%	0.193%
39	11.721	1635	1638	1640	rVV	595102	465753	3.05%	0.266%
40	11.804	1649	1652	1655	rVB	393235	383591	2.52%	0.219%
41	11.892	1664	1667	1670	rVV	3080463	2997873	19.66%	1.709%
42	11.921	1670	1672	1675	rVV	3974640	3277446	21.50%	1.869%
43	11.968	1676	1680	1683	rVV	1458510	1366416	8.96%	0.779%
44	12.004	1683	1686	1689	rVV2	4135842	4957772	32.52%	2.827%
45	12.027	1689	1690	1694	rVB	2546105	1509253	9.90%	0.860%
46	12.092	1699	1701	1704	rVV2	278840	254764	1.67%	0.145%
47	12.127	1704	1707	1709	rVB2	285503	264535	1.74%	0.151%
48	12.186	1714	1717	1719	rVV	1924729	1631105	10.70%	0.930%
49	12.215	1719	1722	1725	rVB2	1109844	1037426	6.80%	0.591%
50	12.263	1728	1730	1734	rBV	396957	346970	2.28%	0.198%
51	12.339	1737	1743	1745	rBV2	914882	1128350	7.40%	0.643%
52	12.368	1745	1748	1750	rVV	744987	572836	3.76%	0.327%
53	12.392	1750	1752	1755	rVB	664006	510354	3.35%	0.291%
54	12.445	1757	1761	1764	rBV	2021496	2253701	14.78%	1.285%
55	12.480	1764	1767	1769	rVV	1265739	1477371	9.69%	0.842%
56	12.533	1773	1776	1781	rBV2	1291426	1616589	10.60%	0.922%
57	12.615	1785	1790	1793	rBV	9765047	12823082	84.10%	7.311%
58	12.651	1793	1796	1798	rBV	412031	397348	2.61%	0.227%
59	12.668	1798	1799	1802	rVV2	418754	320363	2.10%	0.183%
60	12.698	1802	1804	1807	rVB	446390	393613	2.58%	0.224%
61	12.757	1808	1814	1818	rBV3	702850	1326101	8.70%	0.756%
62	12.851	1823	1830	1833	rBV2	10089296	15246633	100.00%	8.692%
63	12.886	1833	1836	1841	rVB2	885115	1209557	7.93%	0.690%
64	12.951	1844	1847	1849	rBV2	973759	912528	5.99%	0.520%
65	12.974	1849	1851	1852	rVV2	740518	593433	3.89%	0.338%
66	12.992	1852	1854	1858	rVB	1060239	1008748	6.62%	0.575%
67	13.057	1859	1865	1868	rBV2	1689346	2661370	17.46%	1.517%
68	13.110	1872	1874	1876	rBV2	356001	344605	2.26%	0.196%
69	13.139	1876	1879	1881	rBV3	1226851	1531309	10.04%	0.873%
70	13.162	1881	1883	1886	rVB	2701417	2365213	15.51%	1.348%
71	13.198	1886	1889	1890	rBV	286970	302518	1.98%	0.172%

LSC Area Percent Report

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Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

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-BF082720.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.233	1892	1895	1897	rVB	1555227	1360855	8.93%	0.776%
73	13.268	1897	1901	1903	rBV2	2336136	2459412	16.13%	1.402%
74	13.292	1903	1905	1908	rVV	588132	575531	3.77%	0.328%
75	13.321	1908	1910	1913	rVB	337456	300889	1.97%	0.172%
76	13.362	1914	1917	1919	rBV	1532096	1274376	8.36%	0.727%
77	13.392	1919	1922	1925	rVB	1769806	1474465	9.67%	0.841%
78	13.668	1967	1969	1974	rVB	1521795	1683259	11.04%	0.960%
79	13.780	1984	1988	1991	rBV2	1631747	2232372	14.64%	1.273%
80	13.815	1991	1994	1996	rVV	1686233	1805964	11.85%	1.030%
81	13.839	1996	1998	2002	rVV2	1195694	1814412	11.90%	1.034%
82	13.880	2002	2005	2009	rVB	1656876	1704507	11.18%	0.972%
83	14.033	2025	2031	2034	rBV3	6531549	10018769	65.71%	5.712%
84	14.068	2034	2037	2044	rVB	6305355	7460740	48.93%	4.253%
85	14.121	2044	2046	2048	rBV2	336294	342161	2.24%	0.195%
86	14.145	2048	2050	2054	rVV	1044740	793223	5.20%	0.452%
87	14.257	2066	2069	2073	rBV3	574175	770617	5.05%	0.439%
88	14.386	2089	2091	2093	rBV	415848	345693	2.27%	0.197%
89	14.421	2094	2097	2100	rVV	1774510	1874355	12.29%	1.069%
90	14.456	2100	2103	2106	rVB	1145652	1030452	6.76%	0.587%
91	14.551	2116	2119	2120	rBV	930370	860002	5.64%	0.490%
92	14.568	2120	2122	2126	rVB2	918995	805870	5.29%	0.459%
93	15.092	2206	2211	2214	rBV2	3961551	7188546	47.15%	4.098%
94	15.192	2226	2228	2232	rVB	939655	934883	6.13%	0.533%
95	15.398	2258	2263	2269	rVB	2666182	3977564	26.09%	2.268%
96	15.462	2269	2274	2279	rVV	3865823	5513873	36.16%	3.144%
97	15.521	2280	2284	2286	rVV	1201152	1609501	10.56%	0.918%
98	15.551	2286	2289	2295	rVB2	1386093	1874037	12.29%	1.068%
99	17.003	2530	2536	2543	rVB2	1693584	3434267	22.52%	1.958%
100	17.450	2607	2612	2621	rVB	1168370	2495003	16.36%	1.422%

Sum of corrected areas: 175402649

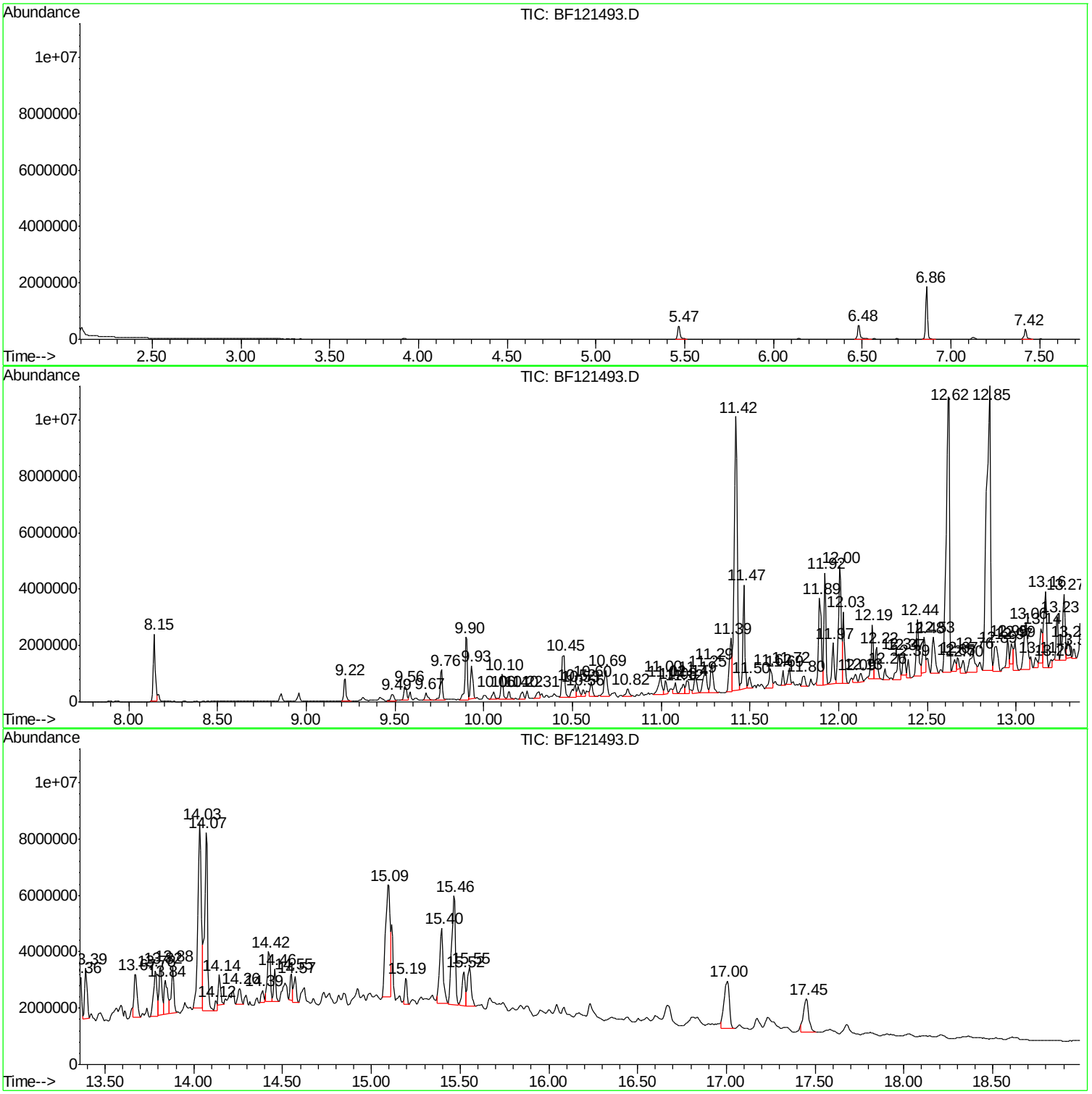
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

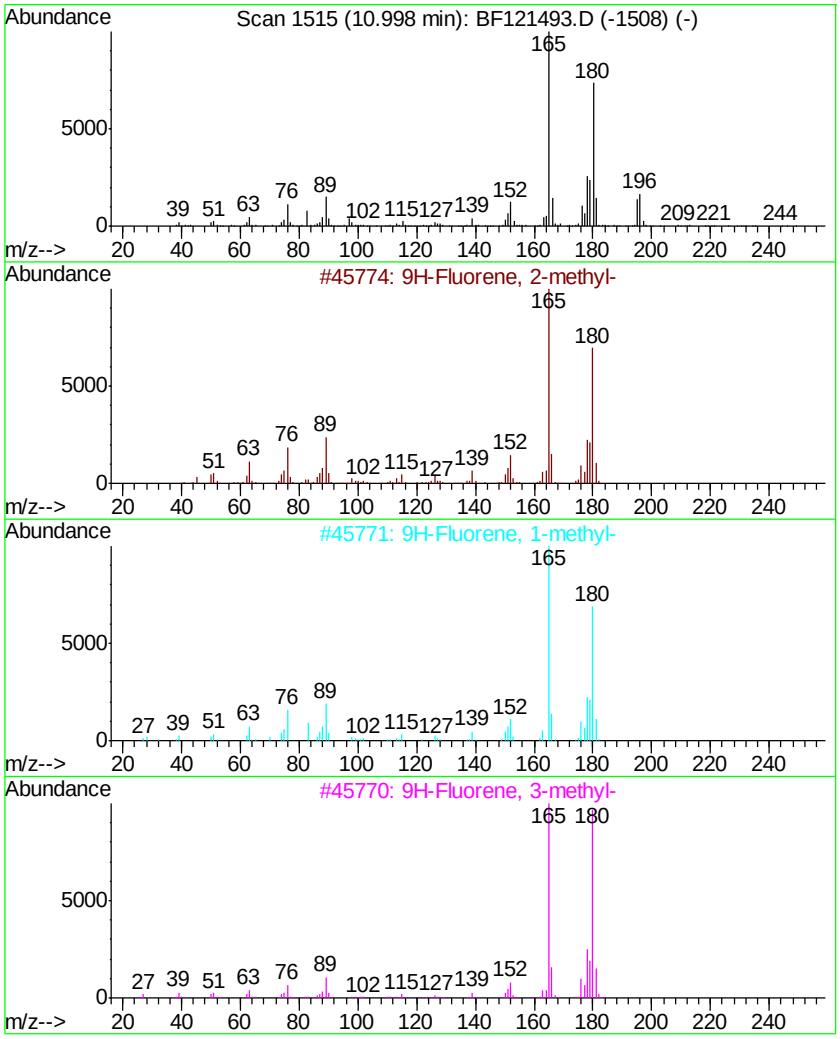
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

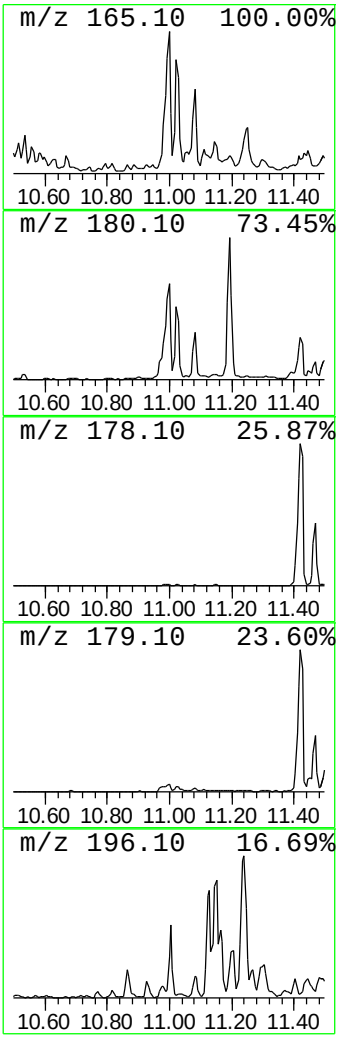
****

Peak Number 1 9H-Fluorene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	9.81 ng	924679	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86





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Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

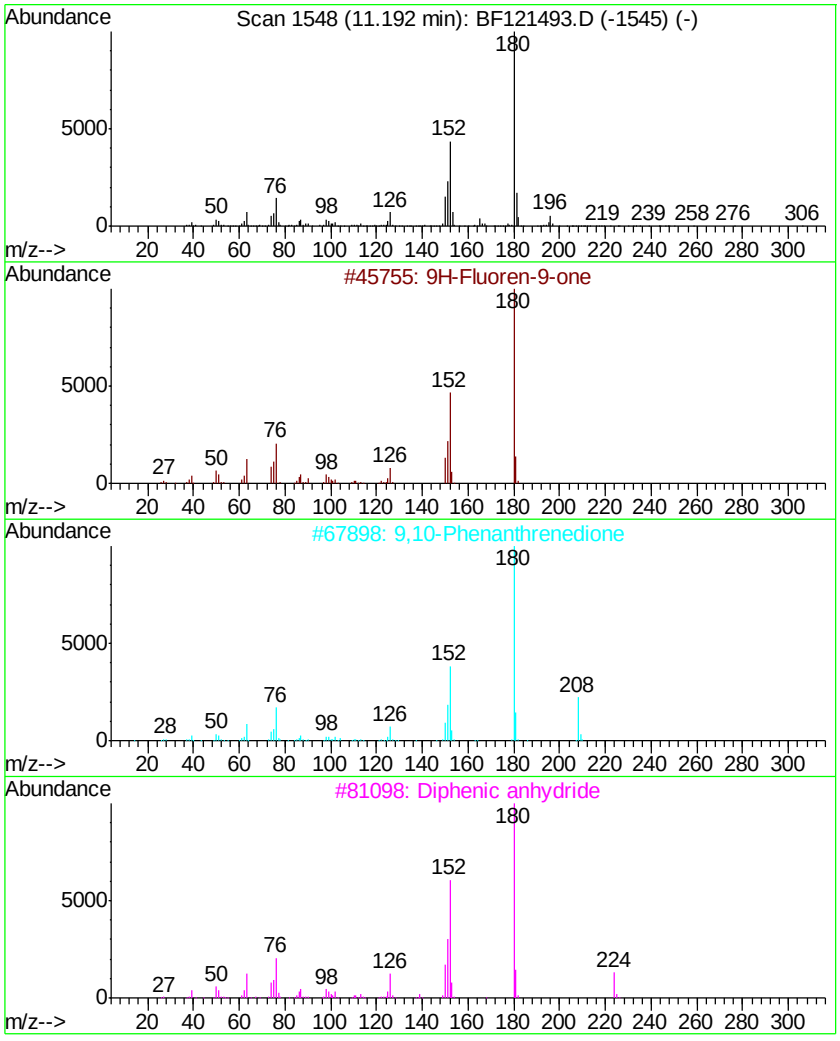
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

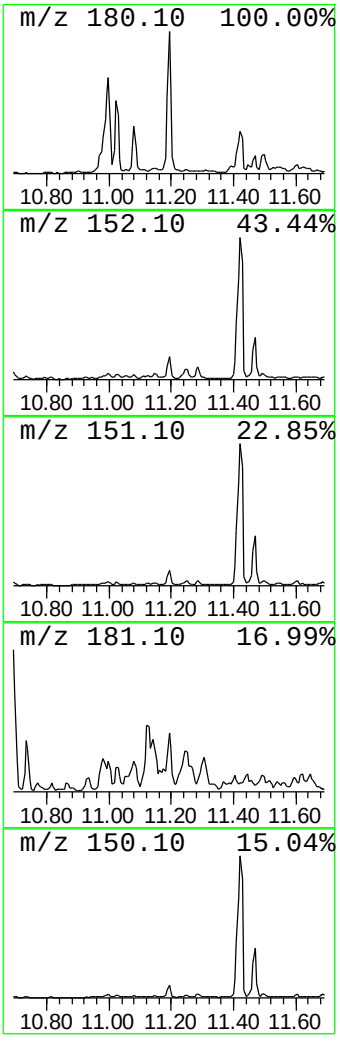
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	6.11 ng	575382	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	87
3	Diphenic anhydride	224	C14H8O3	006050-13-1	58
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	52
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	47





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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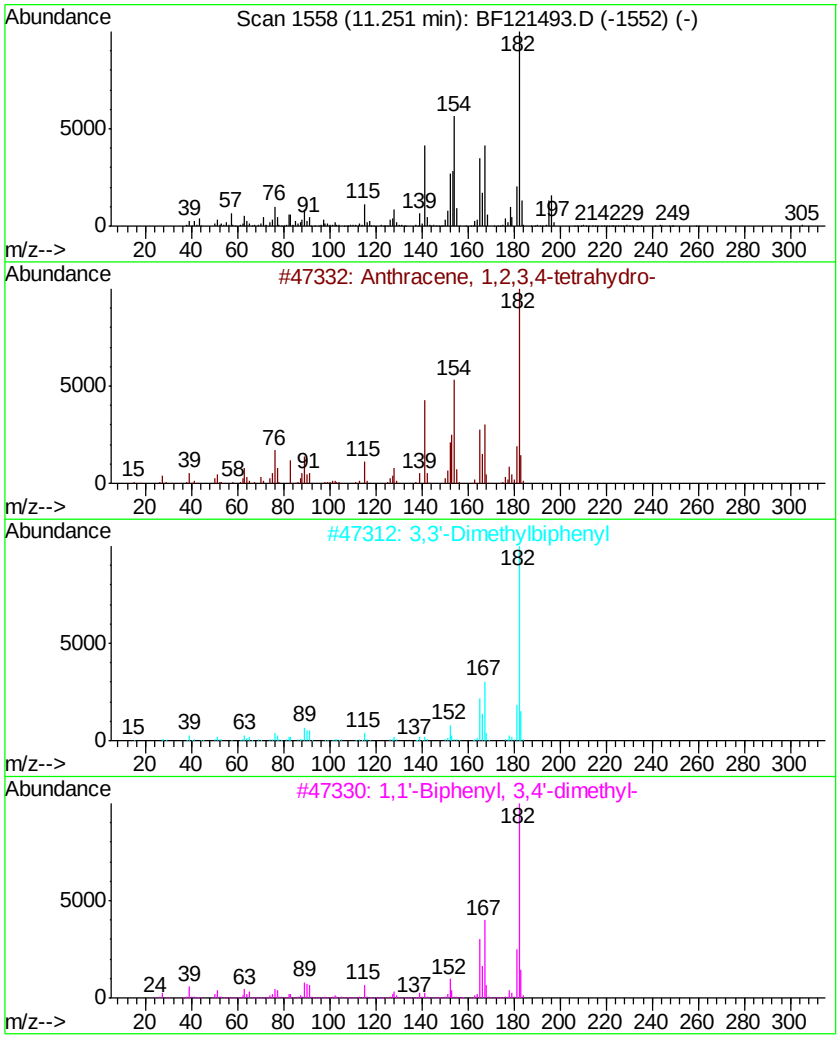
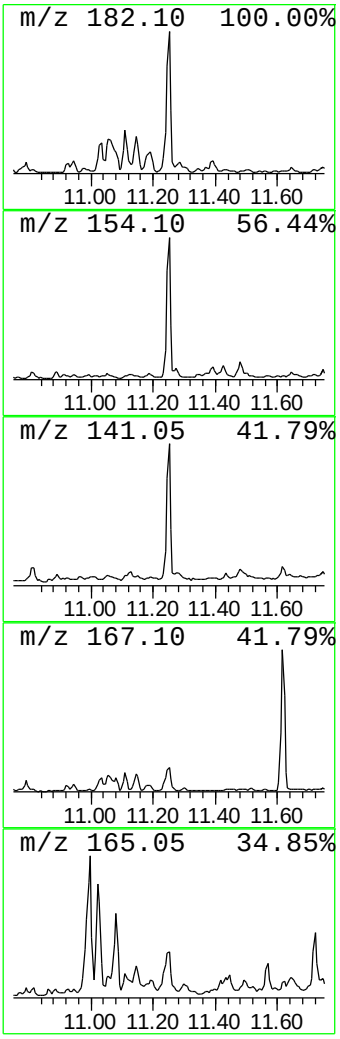
Peak Number 3 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	11.89 ng	1120680	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	93
2	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	60
3	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	55
4	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	53
5	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	53





Library Search Compound Report

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Acq On : 31 Aug 2020 23:06
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Misc :
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Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

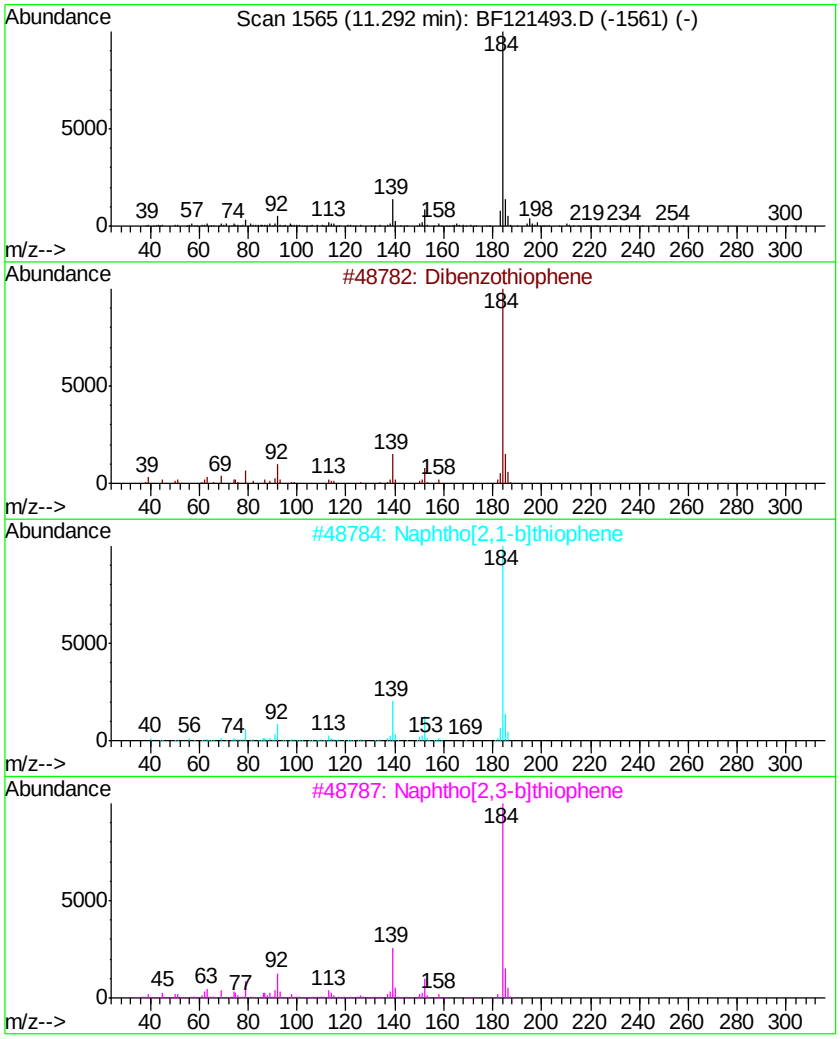
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

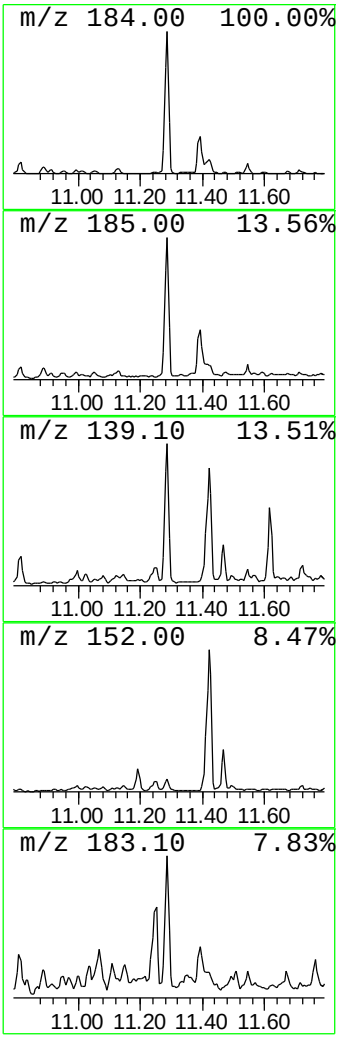
****

Peak Number 4 Dibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	10.42 ng	981449	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

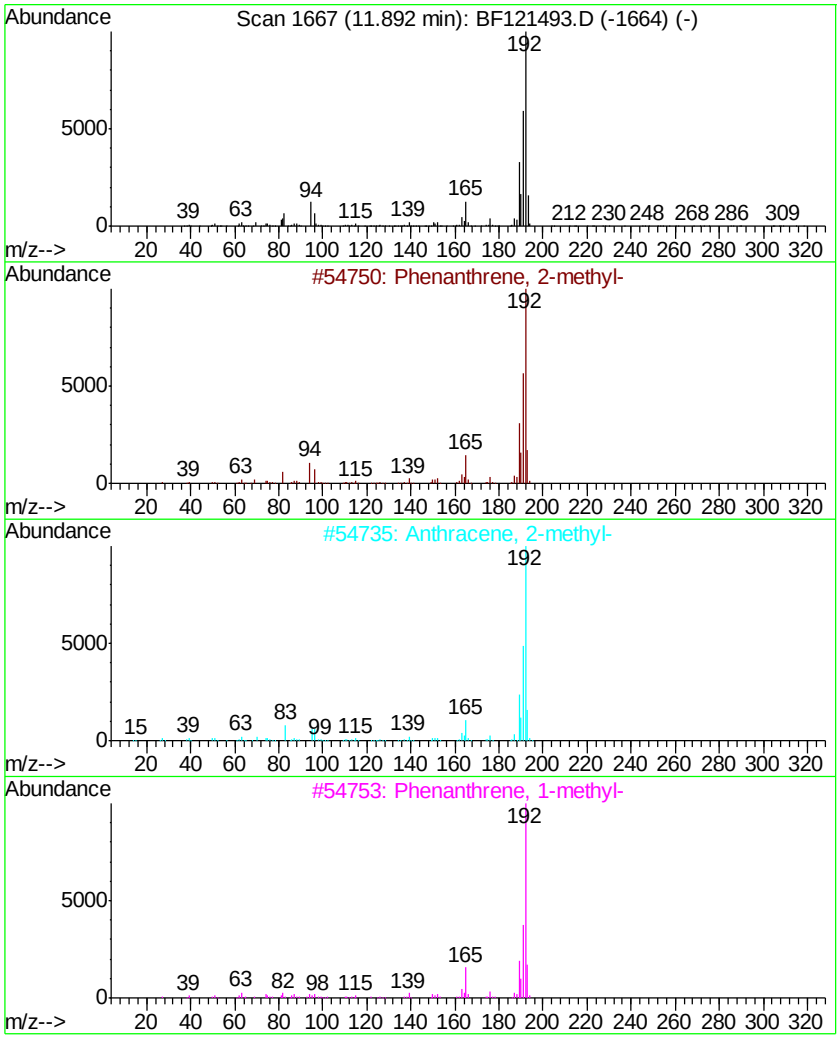
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

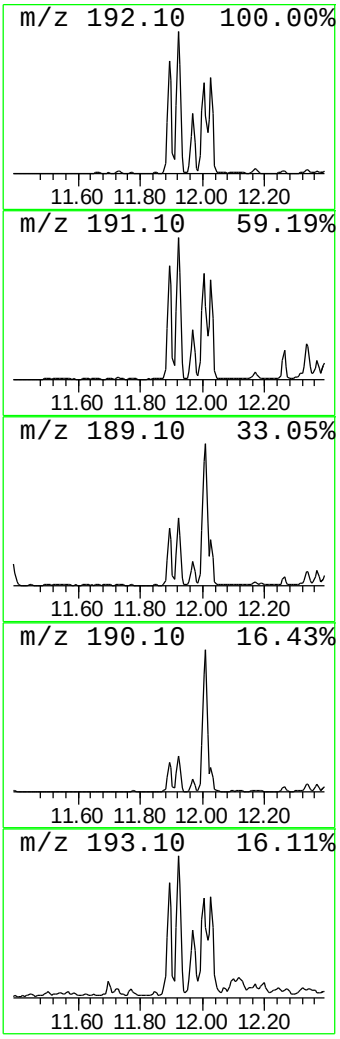
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	31.82 ng	2997870	Phenanthrene-d10	11.39

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	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

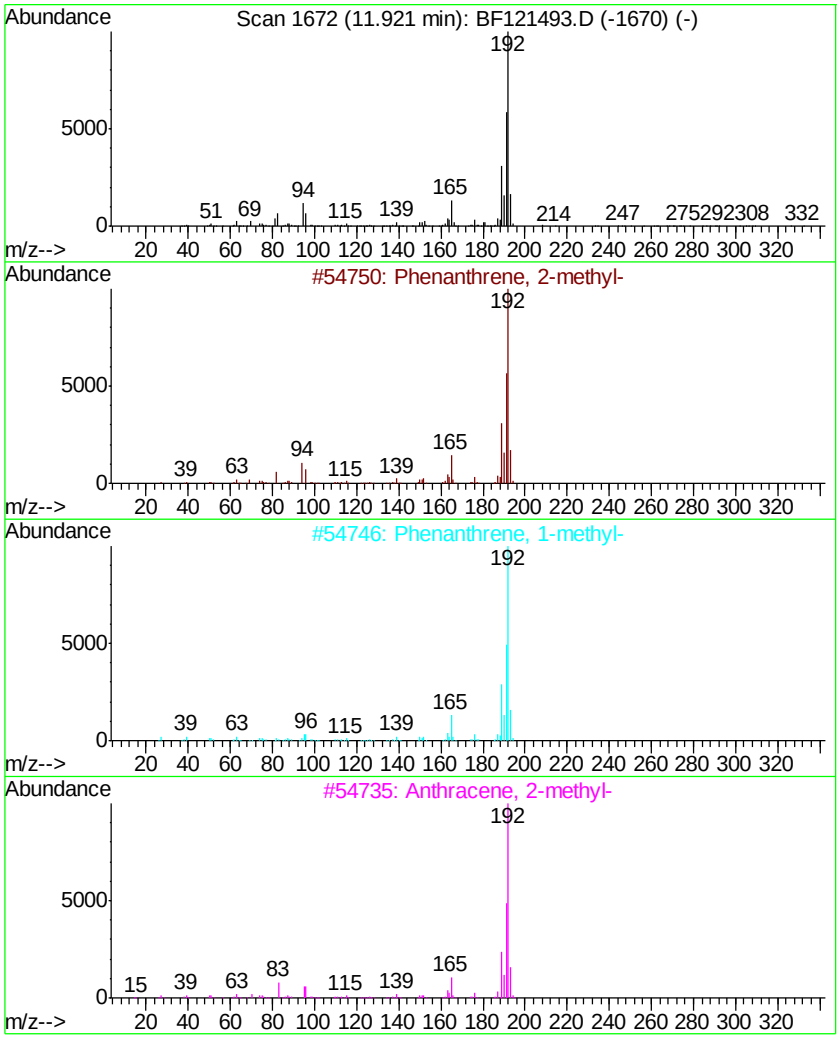
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

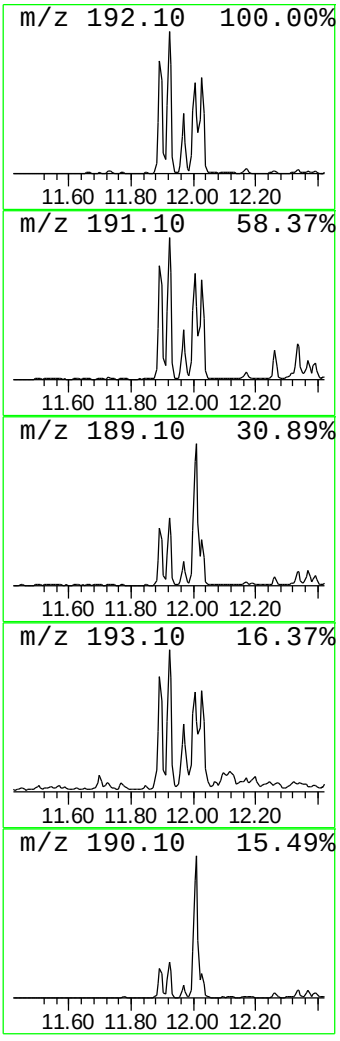
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	34.78 ng	3277450	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





Library Search Compound Report

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Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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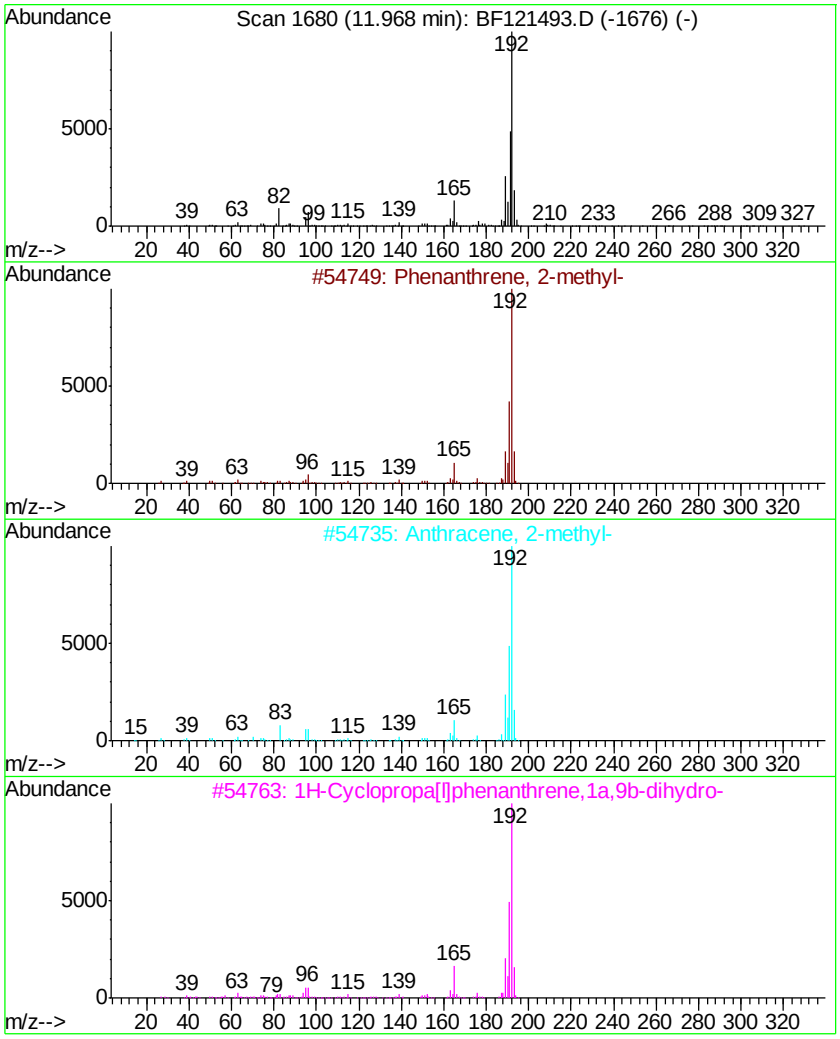
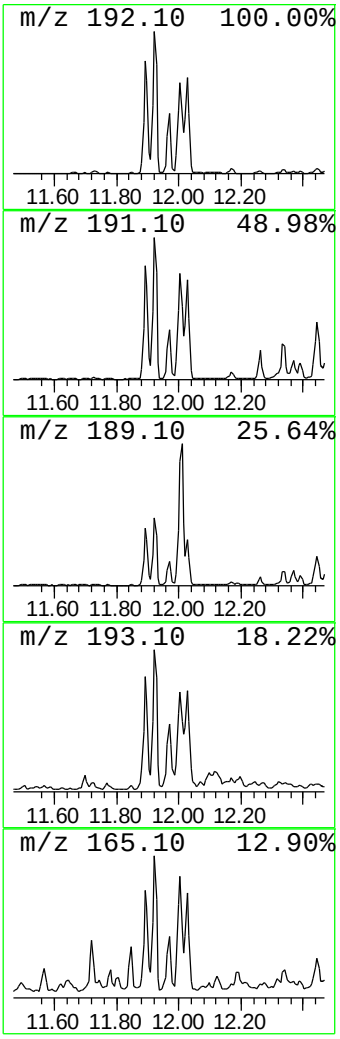
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	14.50 ng	1366420	Phenanthrene-d10	11.39

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	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

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Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

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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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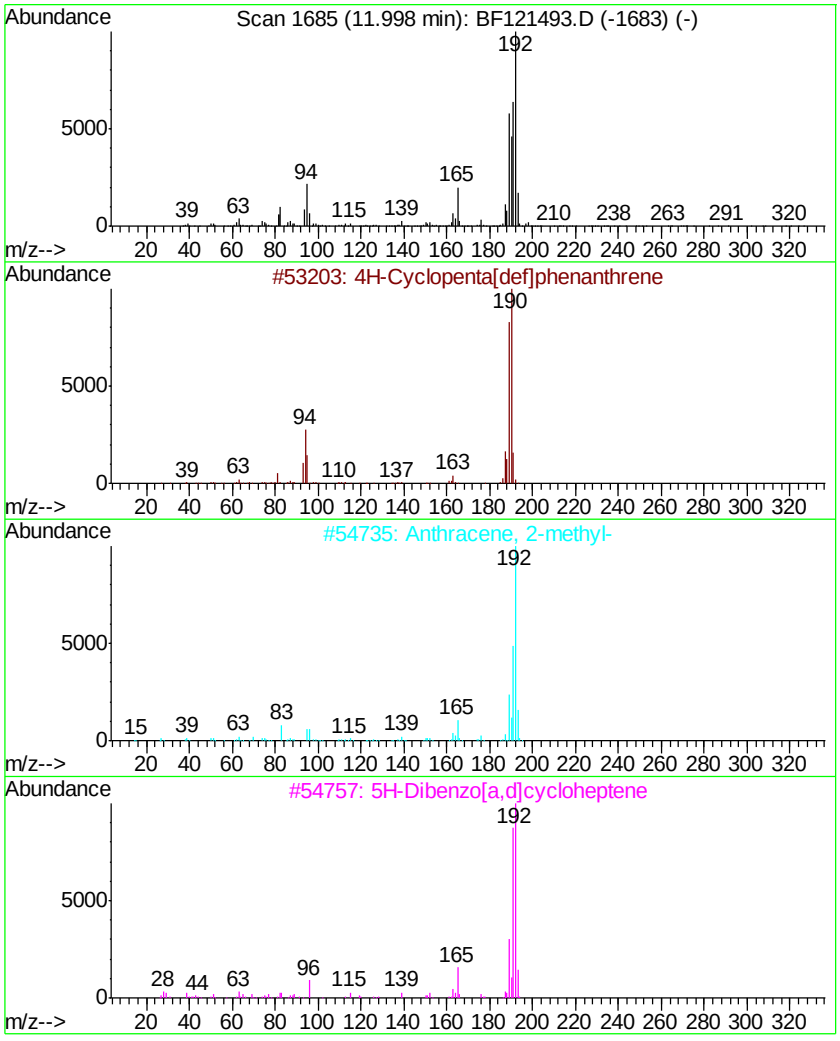
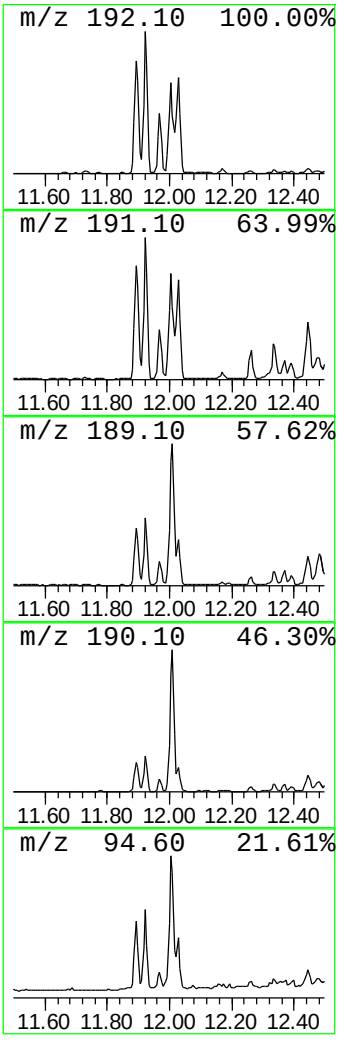
Peak Number 8 unknown12.00 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	52.62 ng	4957770	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	46
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42





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Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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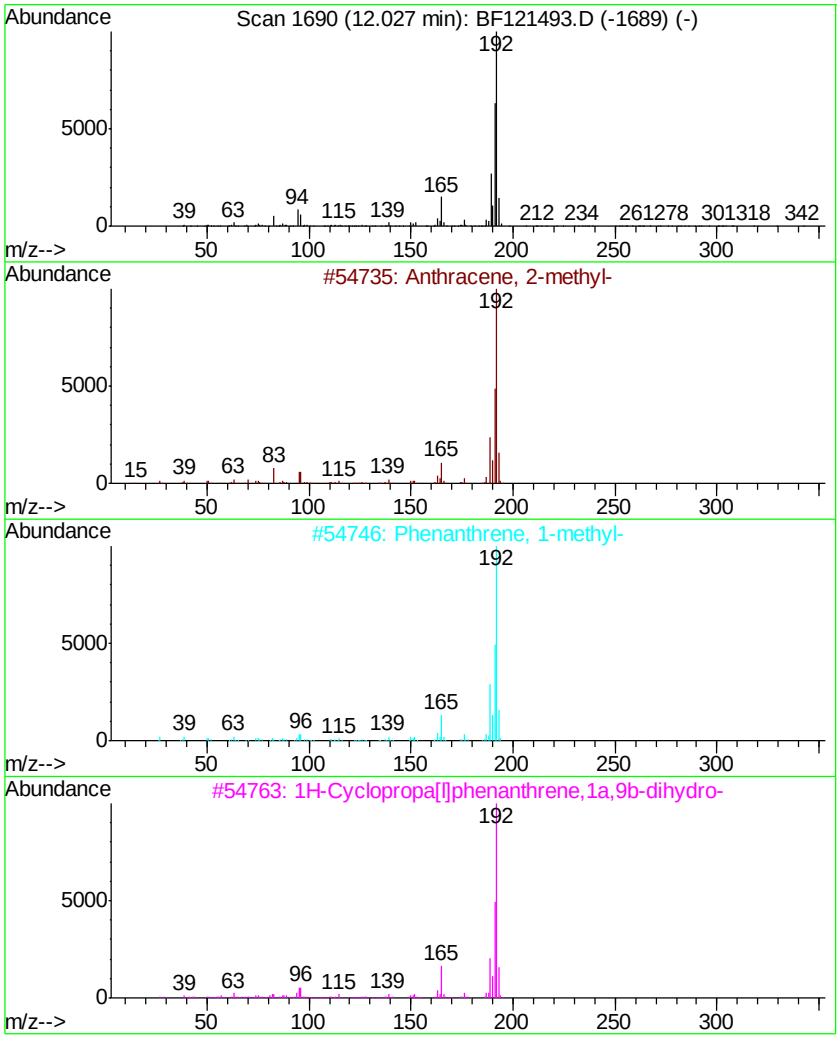
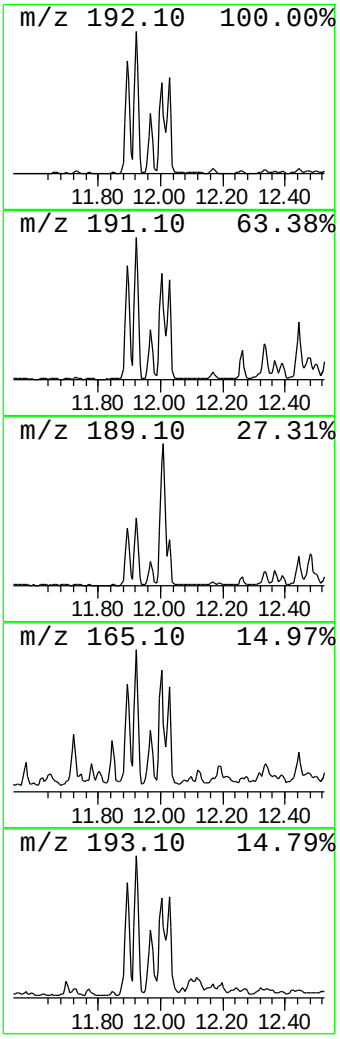
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	16.02 ng	1509250	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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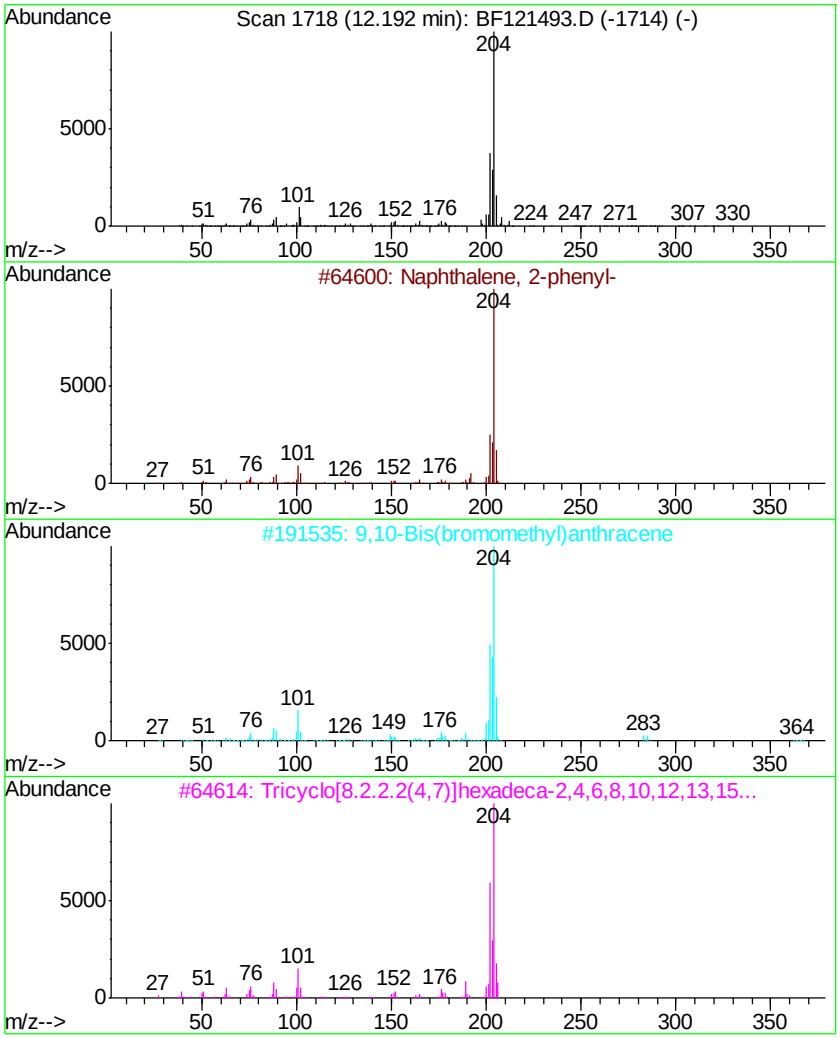
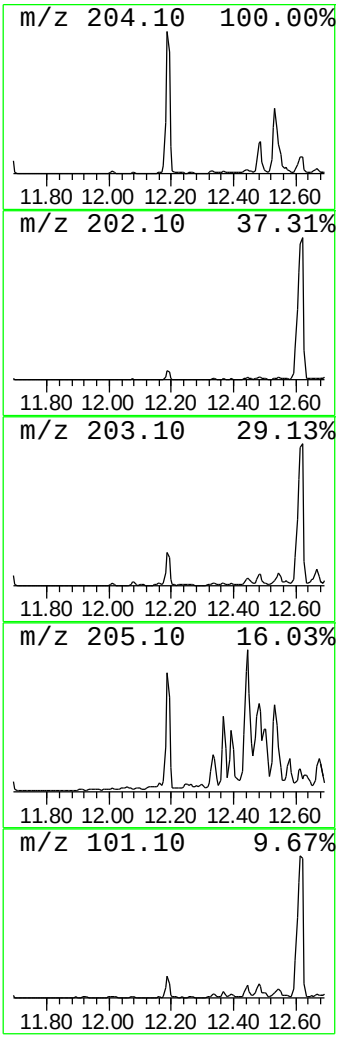
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	17.31 ng	1631110	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	47





Library Search Compound Report

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Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

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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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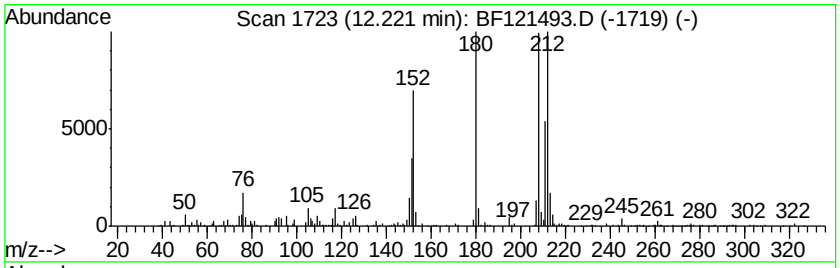
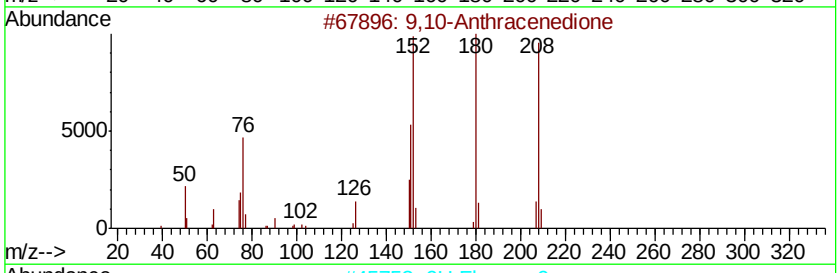
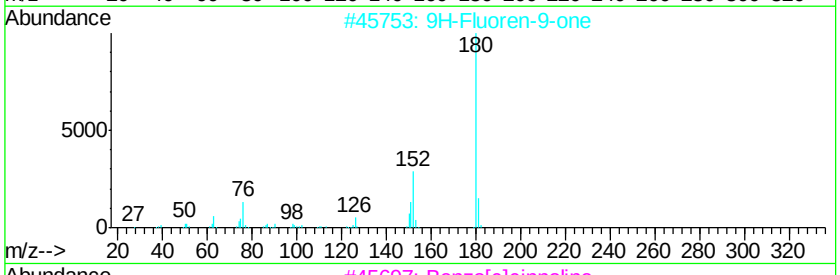
Peak Number 11 9,10-Anthracenedione Concentration Rank 14

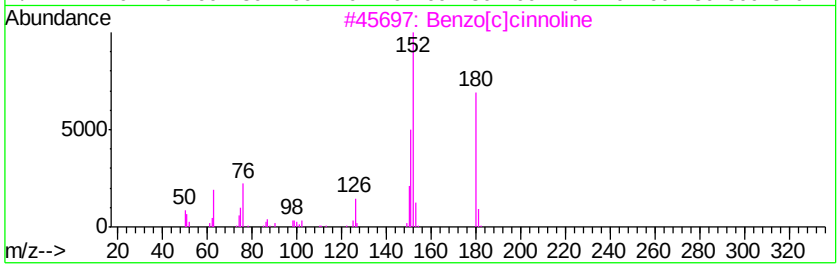
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	11.01 ng	1037430	Phenanthrene-d10	11.39

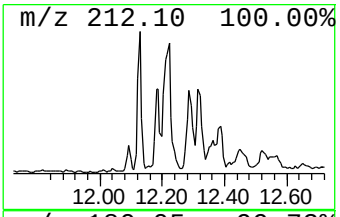
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
4	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	58
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55

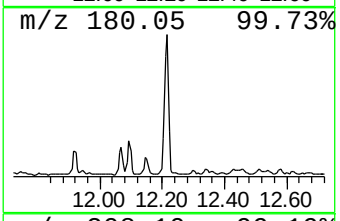


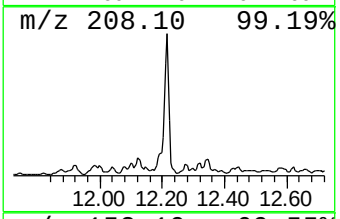


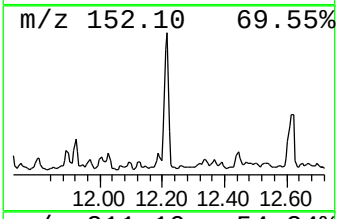


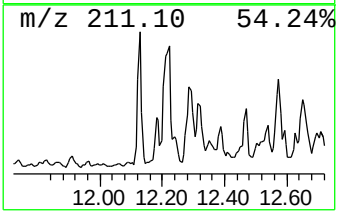












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Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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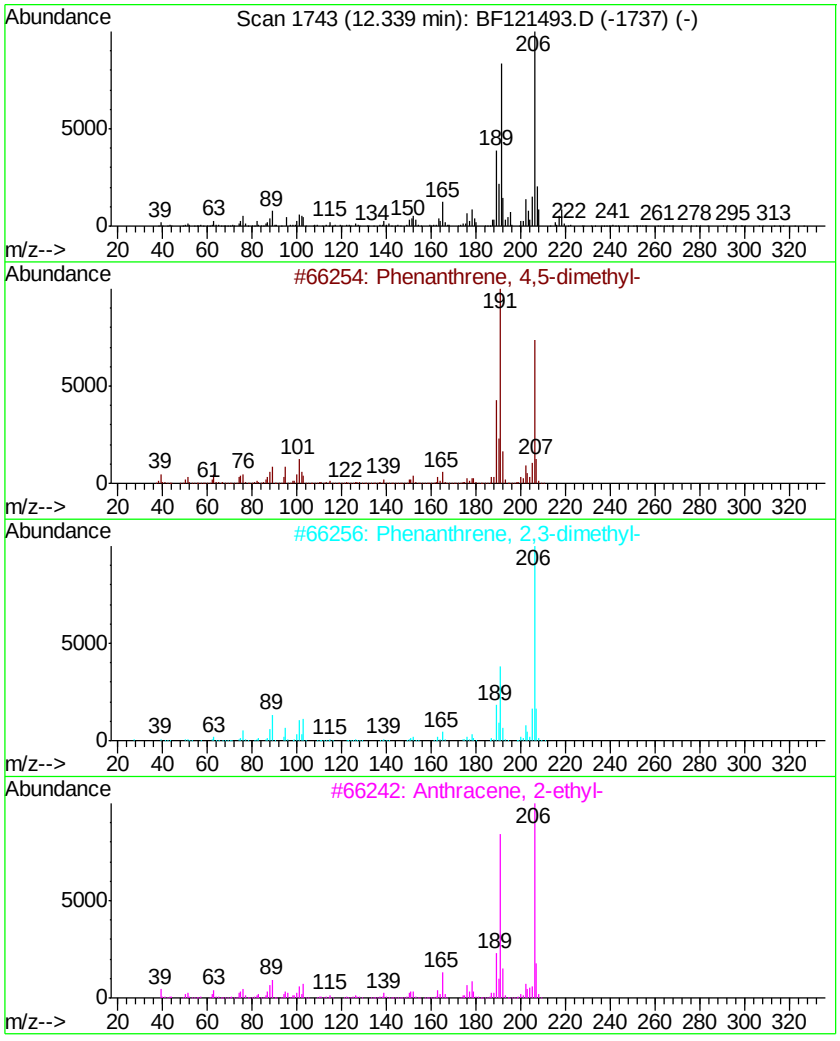
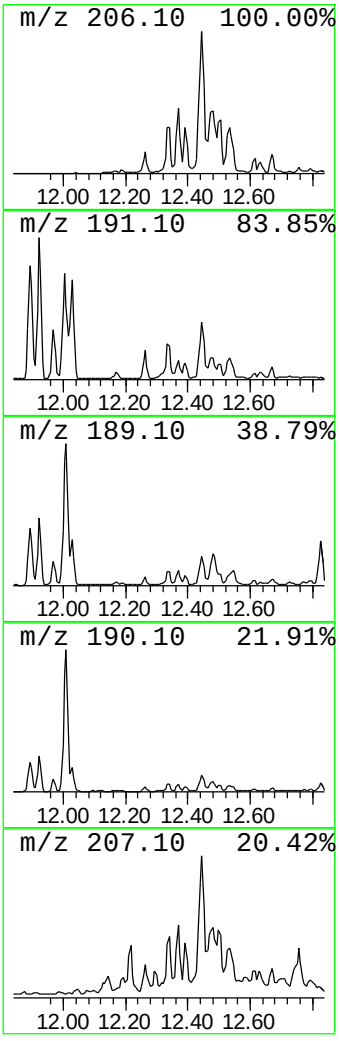
Peak Number 12 Phenanthrene, 4,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	11.98 ng	1128350	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	90
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	86
5	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	76





Library Search Compound Report

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Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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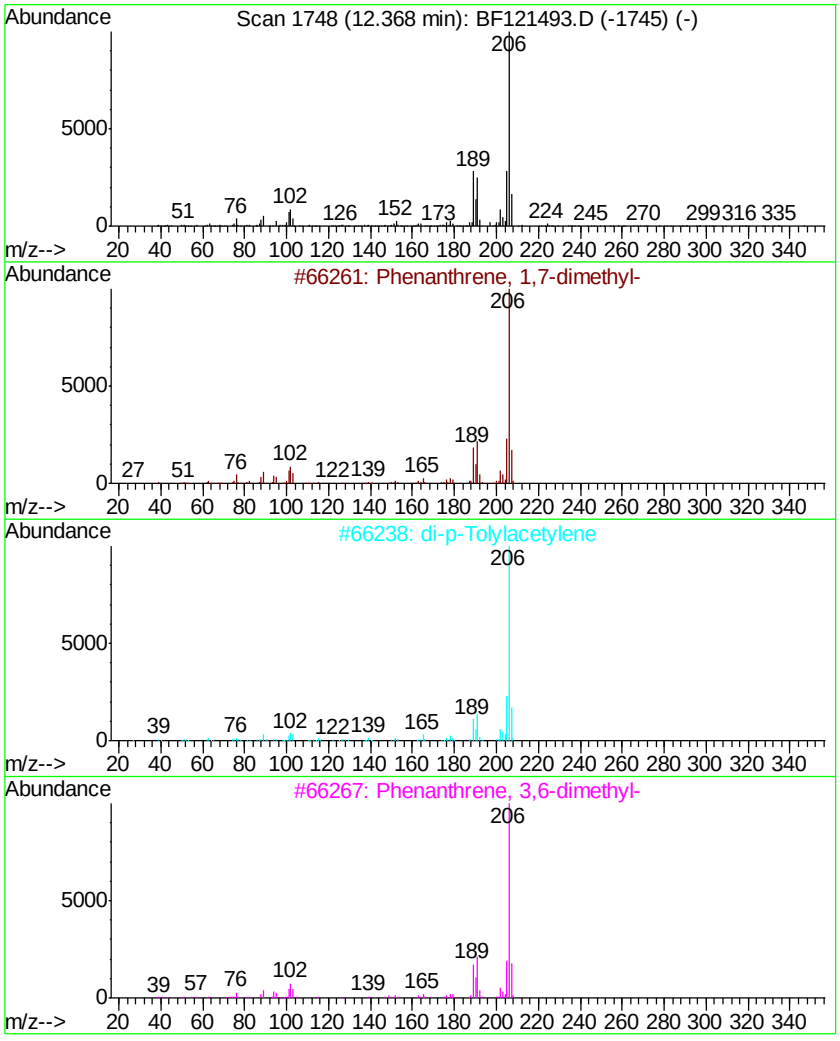
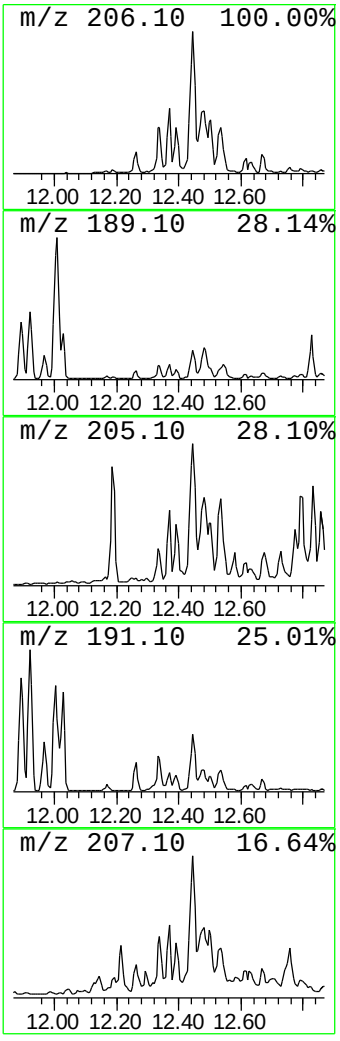
Peak Number 13 Phenanthrene, 1,7-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	6.08 ng	572836	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	74





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Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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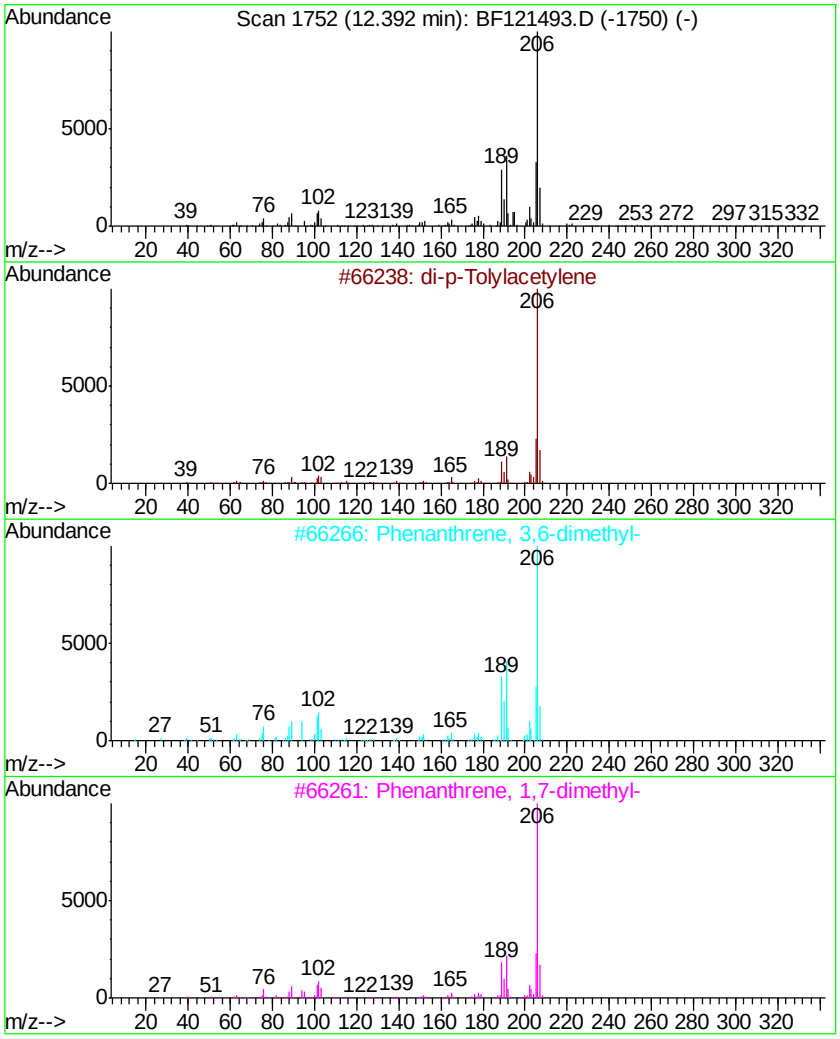
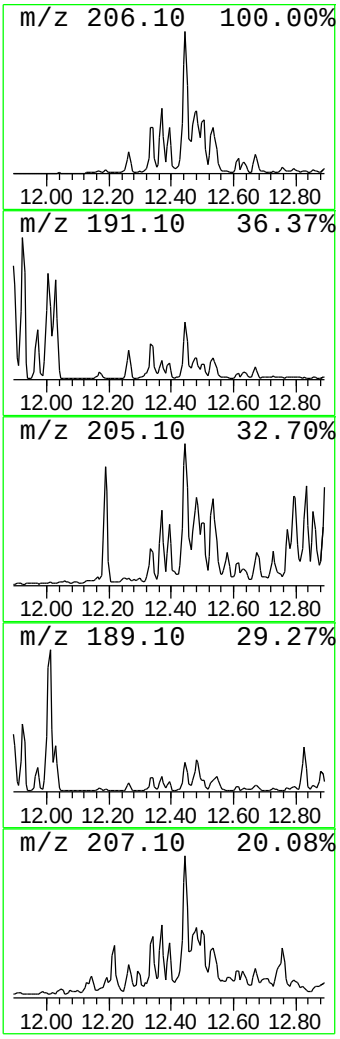
Peak Number 14 di-p-Tolylacetylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	5.42 ng	510354	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	80





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Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
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Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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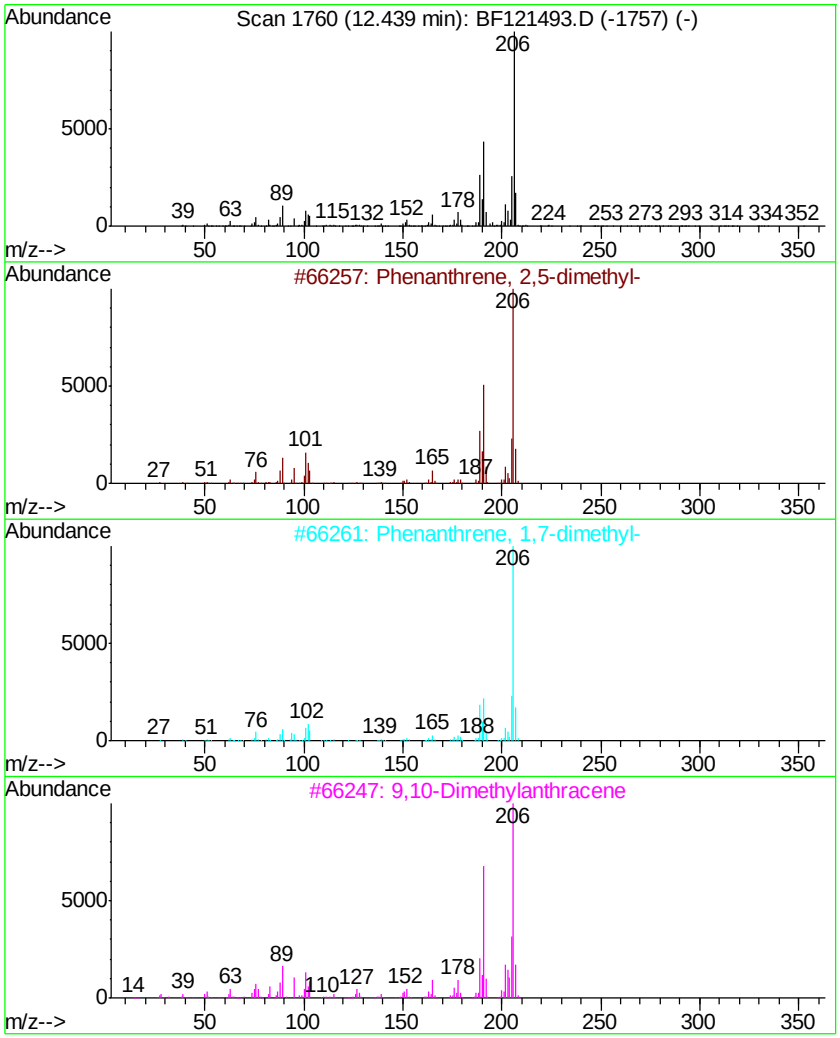
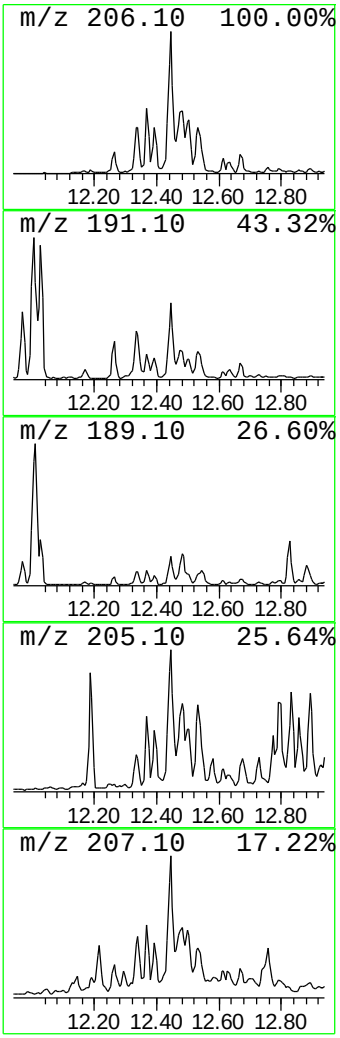
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	23.92 ng	2253700	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87





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Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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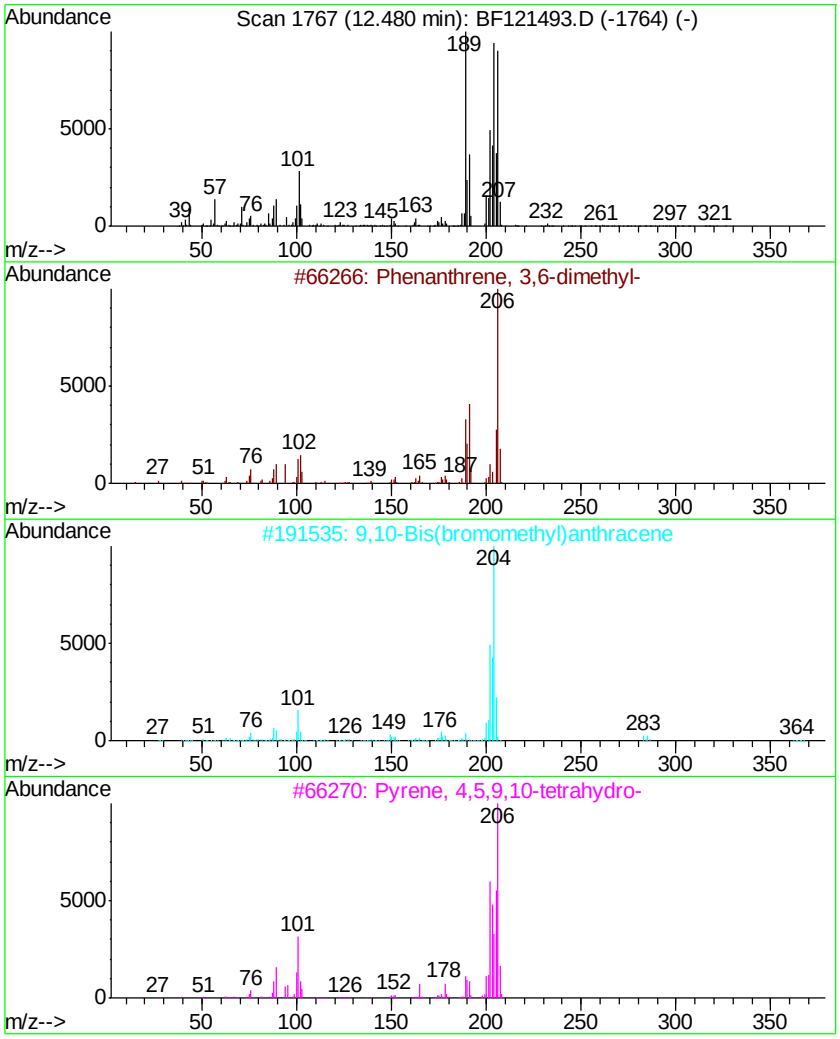
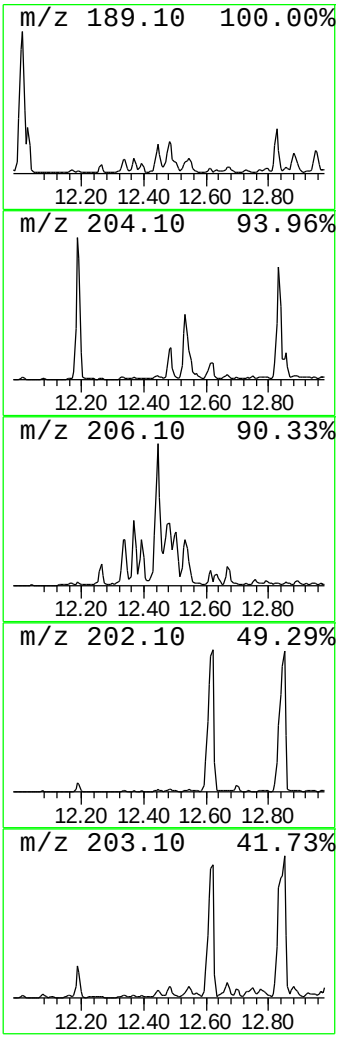
Peak Number 16 unknown12.48 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	15.68 ng	1477370	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	42
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
3	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35
5	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30





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Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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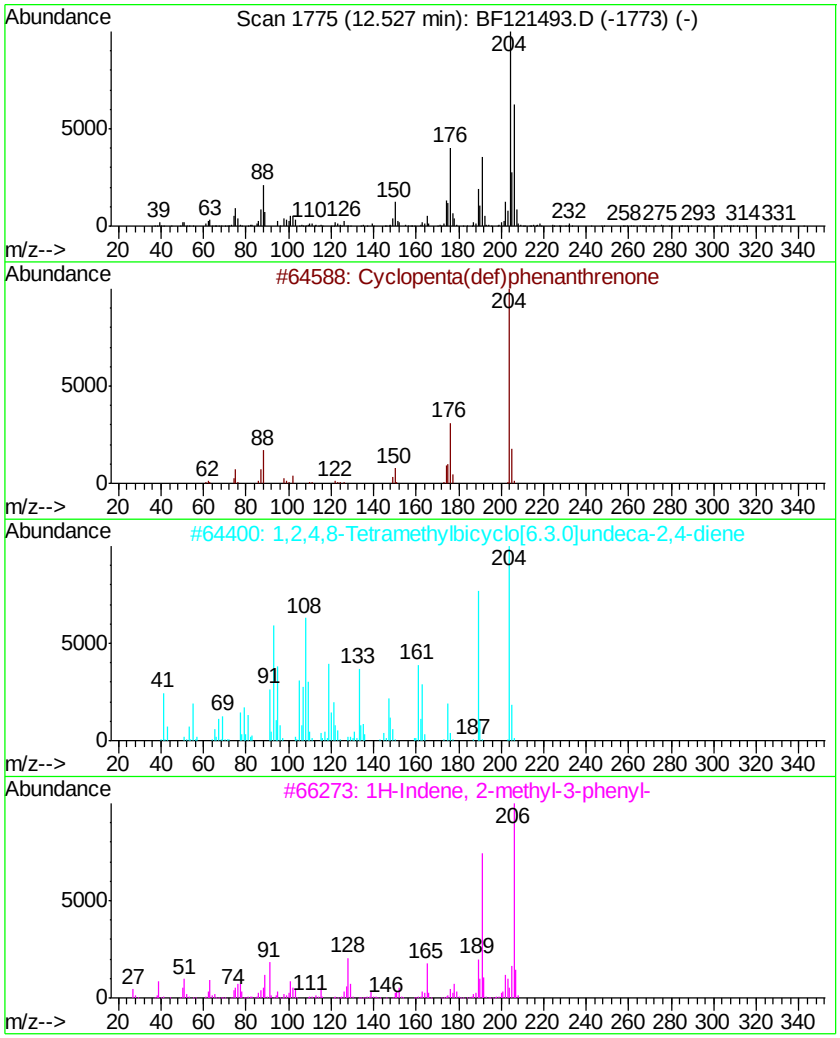
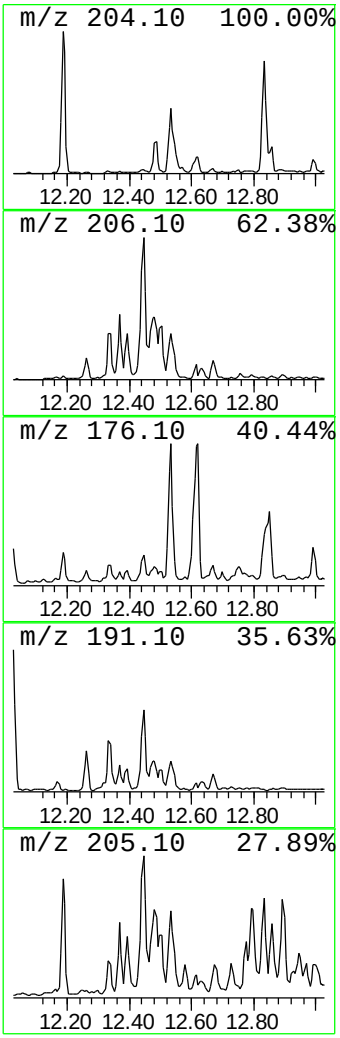
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	17.16 ng	1616590	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	41
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	38
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	38
5	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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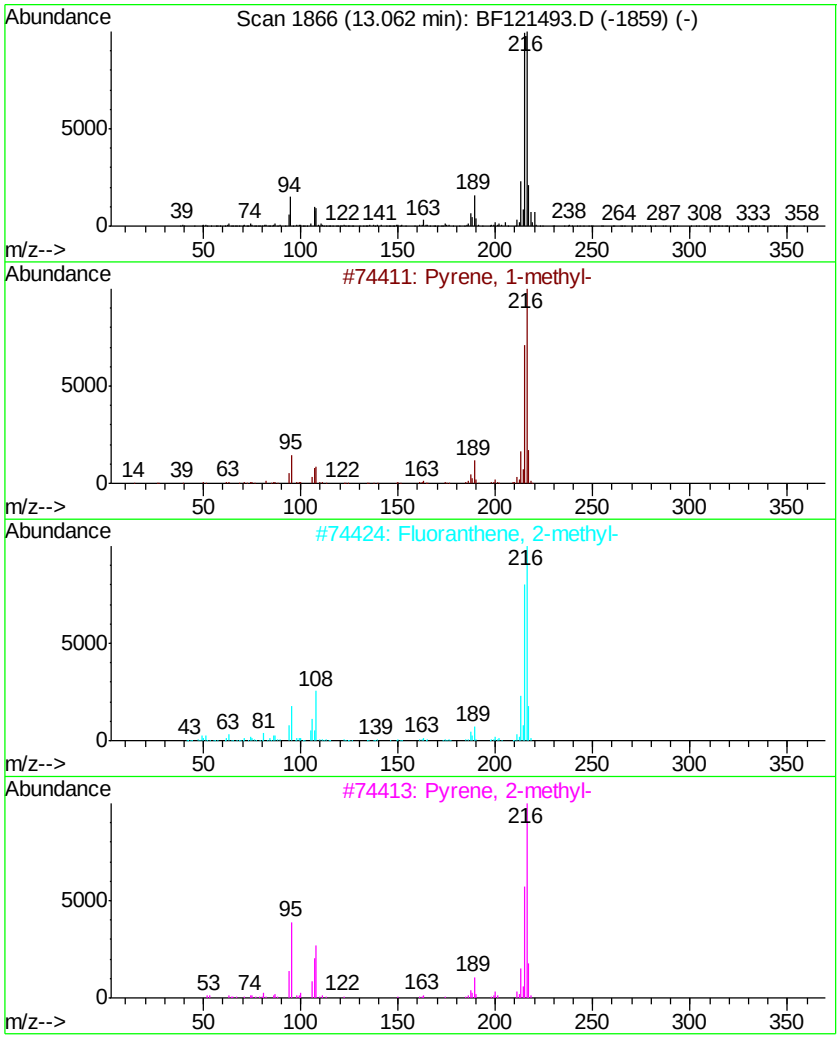
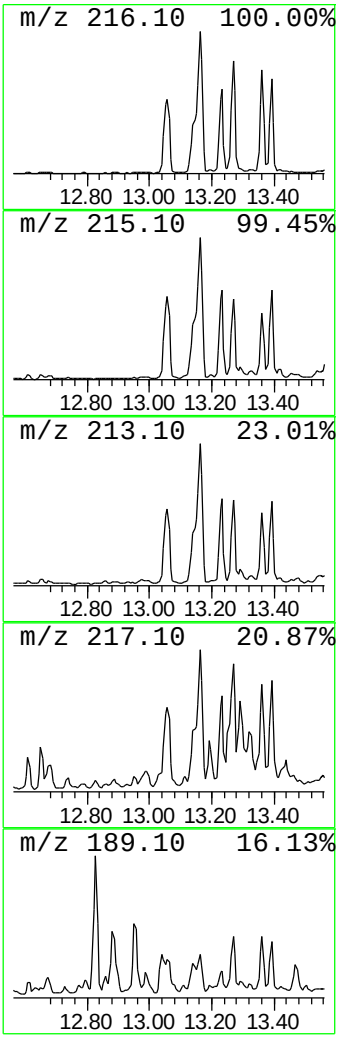
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.06	5.31 ng	2661370	Chrysene-d12	14.04

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	90
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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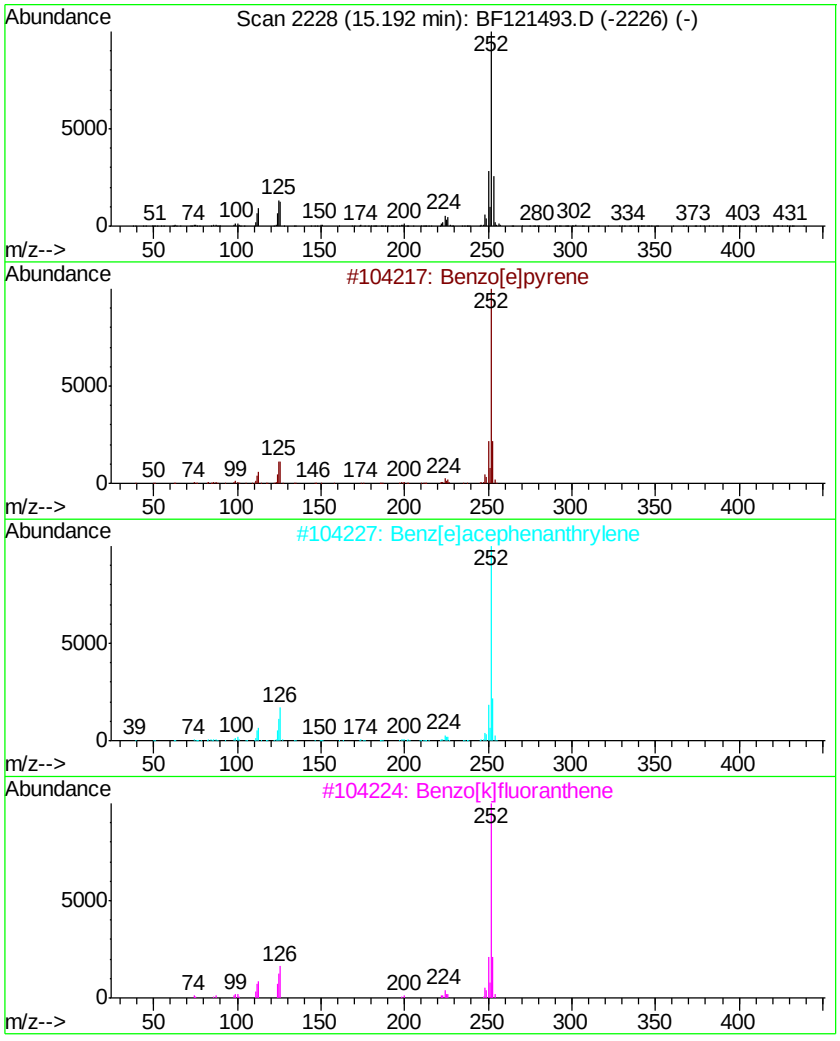
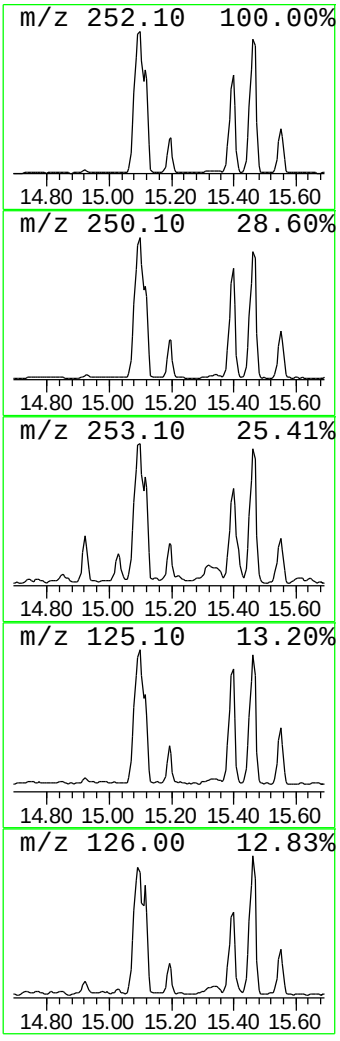
Peak Number 19 Benzo[j]fluoranthene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	11.62 ng	934883	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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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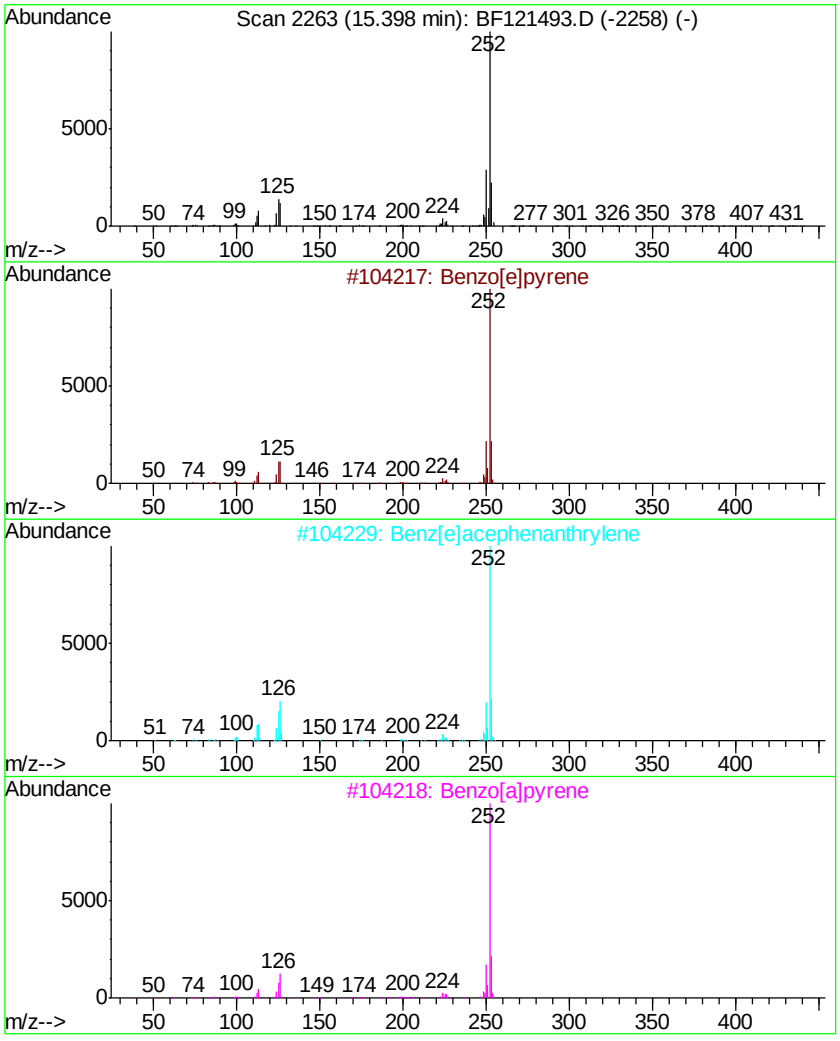
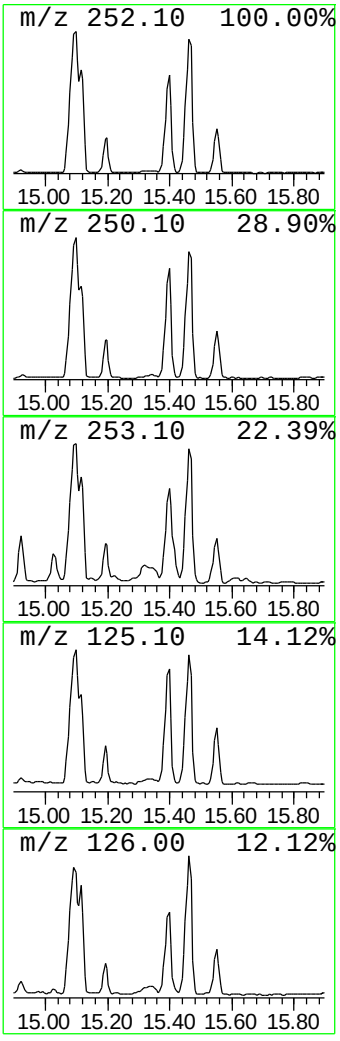
Peak Number 20 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.40	49.43 ng	3977560	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Perylene	252	C20H12	000198-55-0	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF083120\
Data File : BF121493.D
Acq On : 31 Aug 2020 23:06
Operator : JU/CG
Sample : L3847-09 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LINDEN-JOP-BH-09-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082720.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...	11.00	9.8	ng	924679	4	11.39	1884420	20.0
9H-Fluoren-9-one	11.19	6.1	ng	575382	4	11.39	1884420	20.0
Anthracene, 1,2,3...	11.25	11.9	ng	1120680	4	11.39	1884420	20.0
Dibenzothiophene	11.29	10.4	ng	981449	4	11.39	1884420	20.0
Phenanthrene, 2-m...	11.89	31.8	ng	2997870	4	11.39	1884420	20.0
Phenanthrene, 1-m...	11.92	34.8	ng	3277450	4	11.39	1884420	20.0
Anthracene, 2-met...	11.97	14.5	ng	1366420	4	11.39	1884420	20.0
unknown12.00	12.00	52.6	ng	4957770	4	11.39	1884420	20.0
1H-Cyclopropa[l]p...	12.03	16.0	ng	1509250	4	11.39	1884420	20.0
Naphthalene, 2-ph...	12.19	17.3	ng	1631110	4	11.39	1884420	20.0
9,10-Anthracenedione	12.22	11.0	ng	1037430	4	11.39	1884420	20.0
Phenanthrene, 4,5...	12.34	12.0	ng	1128350	4	11.39	1884420	20.0
Phenanthrene, 1,7...	12.37	6.1	ng	572836	4	11.39	1884420	20.0
di-p-Tolylacetylene	12.39	5.4	ng	510354	4	11.39	1884420	20.0
Phenanthrene, 2,5...	12.44	23.9	ng	2253700	4	11.39	1884420	20.0
unknown12.48	12.48	15.7	ng	1477370	4	11.39	1884420	20.0
Cyclopenta(def)ph...	12.53	17.2	ng	1616590	4	11.39	1884420	20.0
Fluoranthene, 2-m...	13.06	5.3	ng	2661370	5	14.04	10018800	20.0
Benzo[j]fluoranthene	15.19	11.6	ng	934883	6	15.52	1609500	20.0
Benzo[e]pyrene	15.40	49.4	ng	3977560	6	15.52	1609500	20.0