LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

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-BF091020.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	6.763	792	795	808	rVB	696943	580807	5.97%	0.476%
2	8.045	1010	1013	1015	rBV	866381	702515	7.22%	0.576%
3	8.069	1015	1017	1024	rVB	357525	293557	3.02%	0.241%
4	9.122	1192	1196	1201	rVB	232989	203678	2.09%	0.167%
5	9.798	1305	1311	1314	rBV	905932	792884	8.15%	0.650%
6	9.833	1314	1317	1320	rVB	1288142	1029302	10.58%	0.844%
7	10.004	1342	1346	1350	rVV	622446	522574	5.37%	0.428%
8	10.345	1400	1404	1410	rBV	1161312	1007559	10.36%	0.826%
9	10.504	1428	1431	1434	rVB	287475	242394	2.49%	0.199%
10	10.586	1439	1445	1449	rBV2	386945	461356	4.74%	0.378%
11	10.892	1490	1497	1500	rBV3	268741	345294	3.55%	0.283%
12	11.092	1528	1531	1535	rVV	333621	301346	3.10%	0.247%
13	11.133	1535	1538	1542	rVV2	181311	246454	2.53%	0.202%
14	11.180	1542	1546	1552	rVB	556255	497941	5.12%	0.408%
15	11.286	1558	1564	1565	rBV	648862	618568	6.36%	0.507%
16	11.321	1565	1570	1572	rVV	5317062	6221964	63.97%	5.102%
17	11.368	1572	1578	1580	rVV	2556874	2349018	24.15%	1.926%
18	11.398	1580	1583	1586	rVB	194053	198455	2.04%	0.163%
19	11.516	1597	1603	1611	rBV2	757857	906478	9.32%	0.743%
20	11.580	1611	1614	1618	rVV3	241129	224676	2.31%	0.184%
21	11.786	1644	1649	1652	rBV	968043	908424	9.34%	0.745%
22	11.816	1652	1654	1658	rVB	1404972	1093013	11.24%	0.896%
23	11.863	1658	1662	1665	rBV	610330	539183	5.54%	0.442%
24	11.904	1665	1669	1671	rBV	1823150	1986025	20.42%	1.628%
25	12.080	1696	1699	1702	rVV	810638	697478	7.17%	0.572%
26	12.116	1702	1705	1708	rVV	536538	494403	5.08%	0.405%
27	12.227	1720	1724	1727	rVV3	211319	213683	2.20%	0.175%
28	12.339	1738	1743	1745	rBV	349850	431255	4.43%	0.354%
29	12.374	1745	1749	1752	rVV	358168	478080	4.92%	0.392%
30	12.433	1755	1759	1765	rVB2	462351	585144	6.02%	0.480%
31	12.521	1766	1774	1776	rVV	6182104	9123892	93.81%	7.481%
32	12.563	1779	1781	1785	rVV	282338	269646	2.77%	0.221%
33	12.651	1791	1796	1799	rVV2	587663	628747	6.46%	0.516%
34	12.751	1805	1813	1815	rBV3	5553778	9726003	100.00%	7.975%

LSC Area Percent Report

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Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

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-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.780	1815	1818	1821	rVV	522645	532014	5.47%	0.436%
36	12.851	1825	1830	1832	rBV	781582	833378	8.57%	0.683%
37	12.886	1834	1836	1840	rVB	737198	728476	7.49%	0.597%
38	12.951	1840	1847	1850	rBV3	709060	1256390	12.92%	1.030%
39	12.980	1850	1852	1854	rVV	313971	238020	2.45%	0.195%
40	13.033	1854	1861	1863	rVV4	635322	905639	9.31%	0.743%
41	13.063	1863	1866	1868	rVV	1915829	1727984	17.77%	1.417%
42	13.092	1868	1871	1873	rVV	188465	194071	2.00%	0.159%
43	13.127	1873	1877	1879	rVV	1759821	1612864	16.58%	1.323%
44	13.163	1879	1883	1885	rVV2	1140808	1435978	14.76%	1.177%
45	13.186	1885	1887	1890	rVV	544464	564313	5.80%	0.463%
46	13.215	1890	1892	1895	rVV2	311092	334582	3.44%	0.274%
47	13.257	1895	1899	1901	rVV	506512	560442	5.76%	0.460%
48	13.286	1901	1904	1910	rVV2	601320	812772	8.36%	0.666%
49	13.345	1911	1914	1916	rVV3	145299	197909	2.03%	0.162%
50	13.368	1916	1918	1922	rVV2	244609	238605	2.45%	0.196%
51	13.457	1926	1933	1935	rBV5	249003	523652	5.38%	0.429%
52	13.480	1935	1937	1939	rVV	416256	369191	3.80%	0.303%
53	13.539	1944	1947	1949	rVV2	302782	349135	3.59%	0.286%
54	13.568	1949	1952	1956	rVV	770544	844659	8.68%	0.693%
55	13.674	1966	1970	1973	rVV	1083816	1290391	13.27%	1.058%
56	13.704	1973	1975	1977	rVV	1220556	1067248	10.97%	0.875%
57	13.733	1977	1980	1985	rVV3	940354	1667678	17.15%	1.367%
58	13.780	1985	1988	1991	rVV	820234	897811	9.23%	0.736%
59	13.845	1994	1999	2003	rVV	350944	551168	5.67%	0.452%
60	13.933	2005	2014	2017	rVV2	4615397	8670355	89.15%	7.109%
61	13.968	2017	2020	2023	rVV	4301135	5039881	51.82%	4.133%
62	14.015	2026	2028	2029	rVV2	235734	201199	2.07%	0.165%
63	14.039	2029	2032	2036	rVV	1450720	1454380	14.95%	1.193%
64	14.080	2036	2039	2042	rVV3	471387	718586	7.39%	0.589%
65	14.121	2043	2046	2048	rVV	794486	821644	8.45%	0.674%
66	14.157	2048	2052	2055	rVV2	875432	1265141	13.01%	1.037%
67	14.192	2055	2058	2060	rVV3	282108	336328	3.46%	0.276%
68	14.245	2064	2067	2070	rVV3	250366	339787	3.49%	0.279%
69	14.274	2070	2072	2075	rVV	583181	691077	7.11%	0.567%
70	14.315	2075	2079	2082	rVV	1369857	1562345	16.06%	1.281%
71	14.351	2082	2085	2088	rVV3	630874	766165	7.88%	0.628%

LSC Area Percent Report

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Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

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-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.398	2088	2093	2094	rVV4	408502	651347	6.70%	0.534%
73	14.415	2094	2096	2098	rVV	714871	688334	7.08%	0.564%
74	14.439	2098	2100	2102	rVV	764852	832260	8.56%	0.682%
75	14.462	2102	2104	2107	rVV2	994041	917464	9.43%	0.752%
76	14.509	2107	2112	2117	rVV3	433852	784969	8.07%	0.644%
77	14.627	2128	2132	2141	rVB5	515697	924219	9.50%	0.758%
78	14.804	2158	2162	2165	rBV	528893	574573	5.91%	0.471%
79	14.980	2183	2192	2194	rBV	3469678	7102851	73.03%	5.824%
80	15.033	2198	2201	2204	rVV2	245713	307976	3.17%	0.253%
81	15.068	2204	2207	2211	rVB	1163546	1125663	11.57%	0.923%
82	15.162	2217	2223	2226	rBV3	315900	757831	7.79%	0.621%
83	15.262	2234	2240	2246	rVB	2031330	3192567	32.83%	2.618%
84	15.333	2246	2252	2256	rVB	3129205	4622897	47.53%	3.791%
85	15.380	2256	2260	2262	rBV	557886	647689	6.66%	0.531%
86	15.415	2262	2266	2271	rVB2	1333419	1769202	18.19%	1.451%
87	15.545	2284	2288	2291	rBV2	200283	321147	3.30%	0.263%
88	15.592	2291	2296	2301	rVB2	285120	600338	6.17%	0.492%
89	15.715	2314	2317	2324	rVB3	183346	348339	3.58%	0.286%
90	15.798	2326	2331	2334	rBV2	157955	248136	2.55%	0.203%
91	15.915	2347	2351	2355	rVB2	280495	357941	3.68%	0.294%
92	16.056	2372	2375	2387	rVB3	123193	241891	2.49%	0.198%
93	16.603	2461	2468	2471	rBV2	253891	520004	5.35%	0.426%
94	16.809	2495	2503	2509	rVB	1387912	2961496	30.45%	2.428%
95	16.862	2509	2512	2518	rVB	154544	237112	2.44%	0.194%
96	16.962	2522	2529	2534	rBV2	379838	789488	8.12%	0.647%
97	17.015	2534	2538	2543	rBV2	253356	439625	4.52%	0.360%
98	17.245	2567	2577	2587	rBV	954395	2248032	23.11%	1.843%
99	17.456	2607	2613	2627	rVB2	371646	988310	10.16%	0.810%
100	17.962	2695	2699	2716	rVB4	79568	230297	2.37%	0.189%

Sum of corrected areas: 121955052

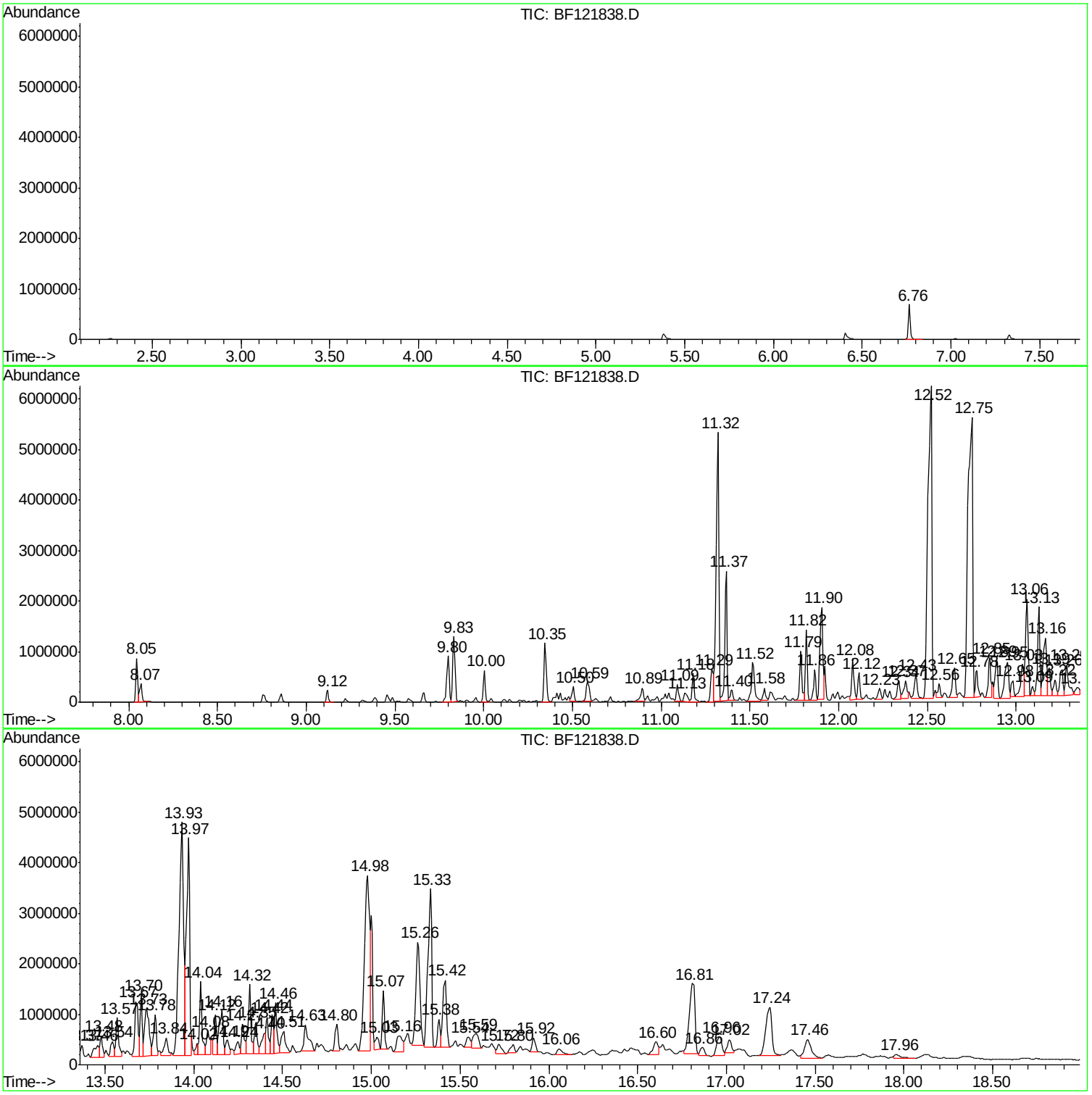
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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\BF100520\
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Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

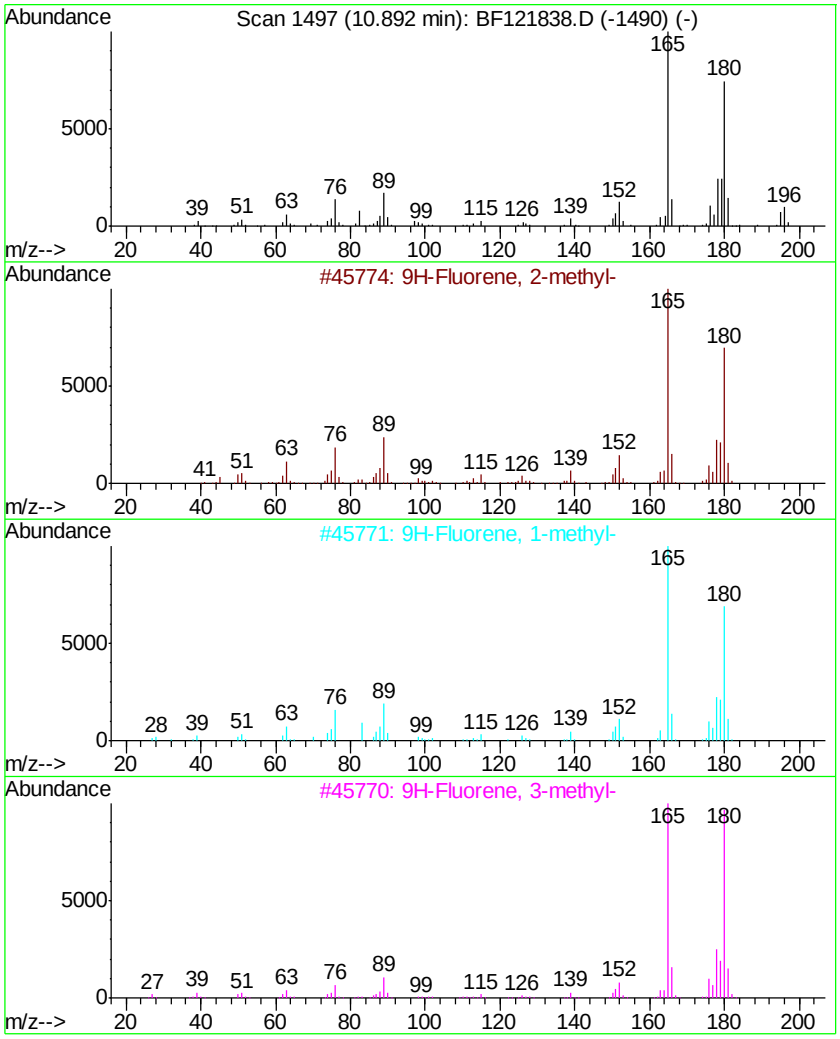
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

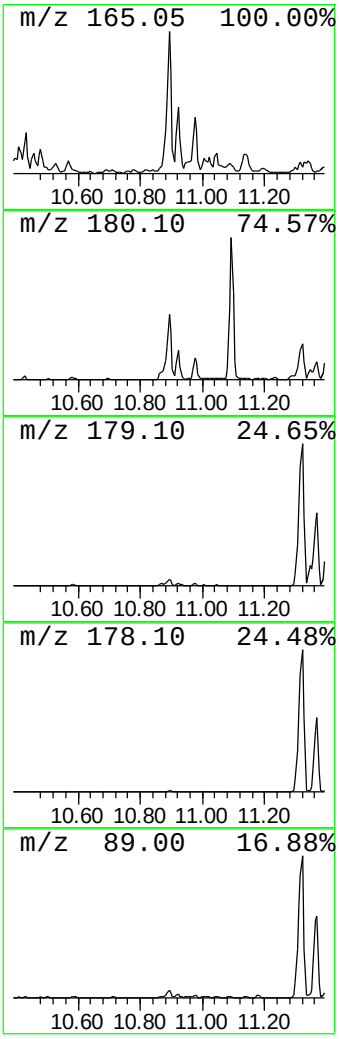
****

Peak Number 1 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	11.16 ng	345294	Phenanthrene-d10	11.29

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, 4-methyl-	180	C14H12	001556-99-6	81
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	76





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
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Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

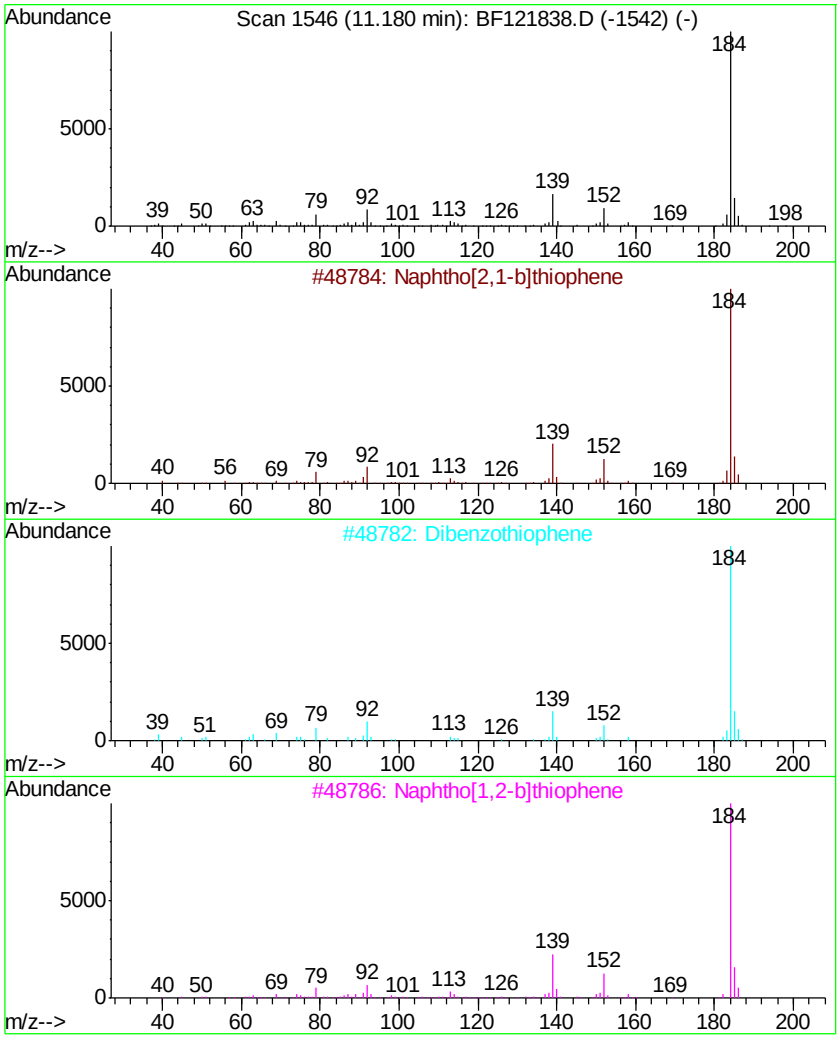
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

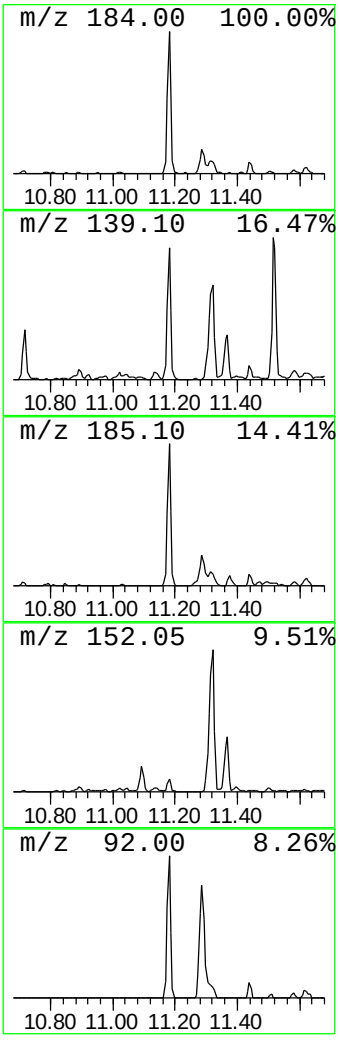
****

Peak Number 2 Naphtho[2,1-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	16.10 ng	497941	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





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ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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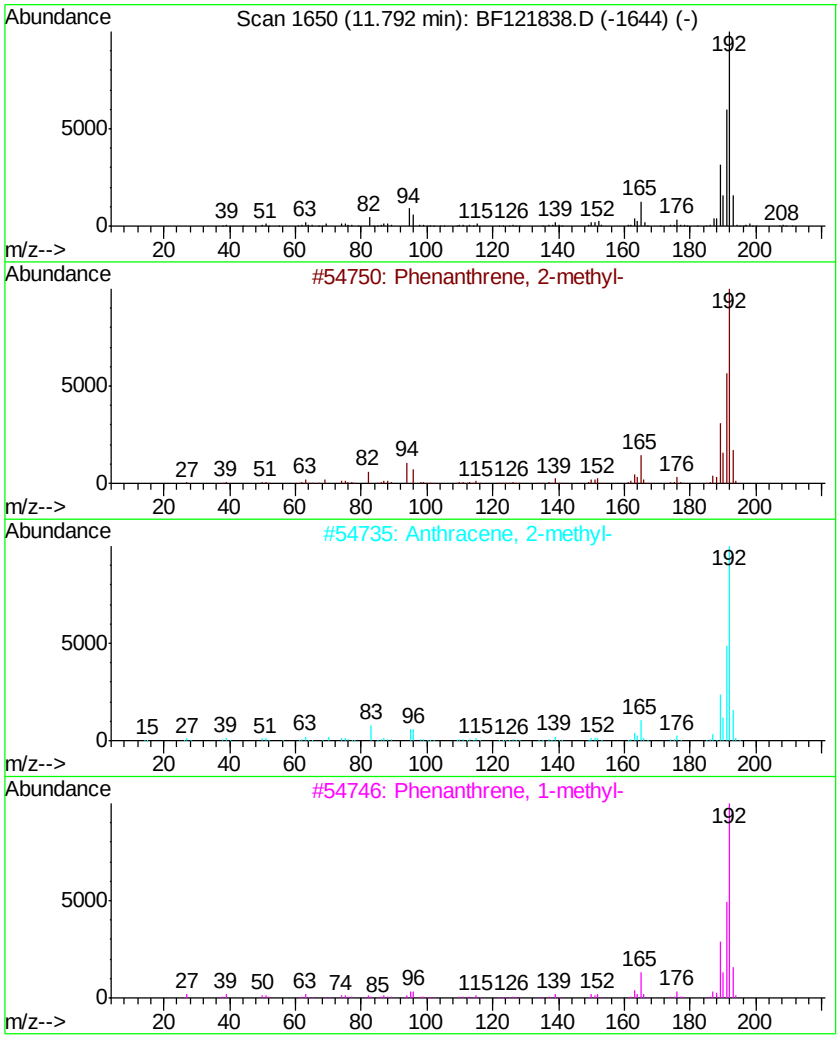
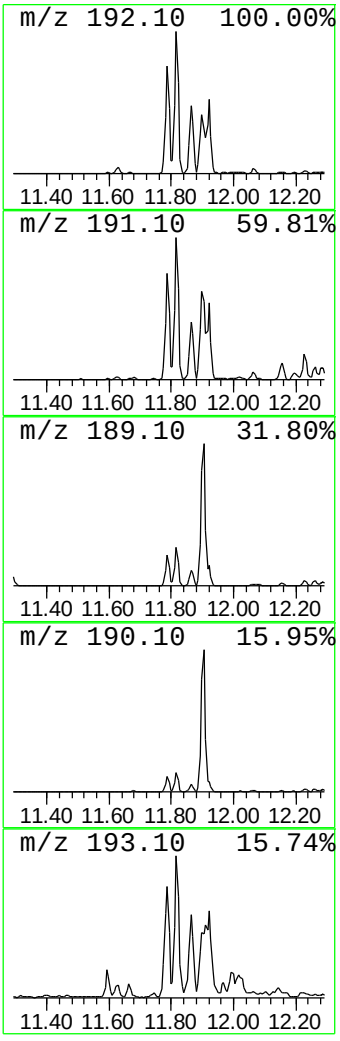
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	29.37 ng	908424	Phenanthrene-d10	11.29

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

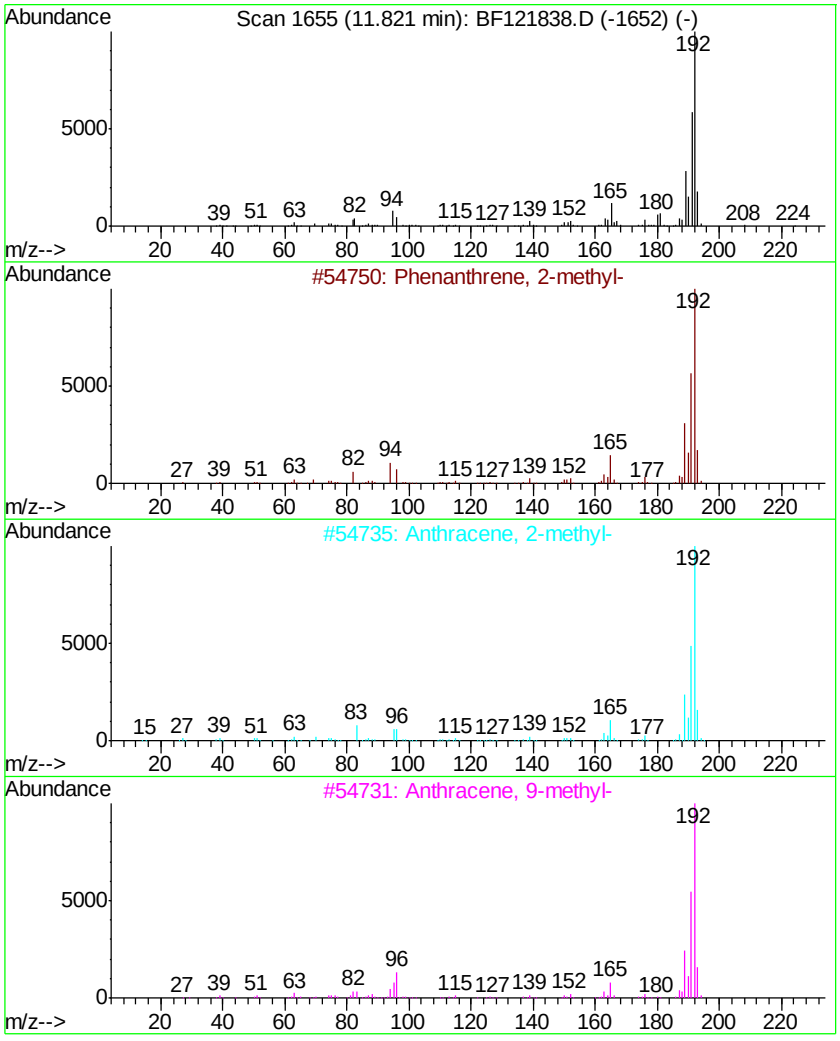
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

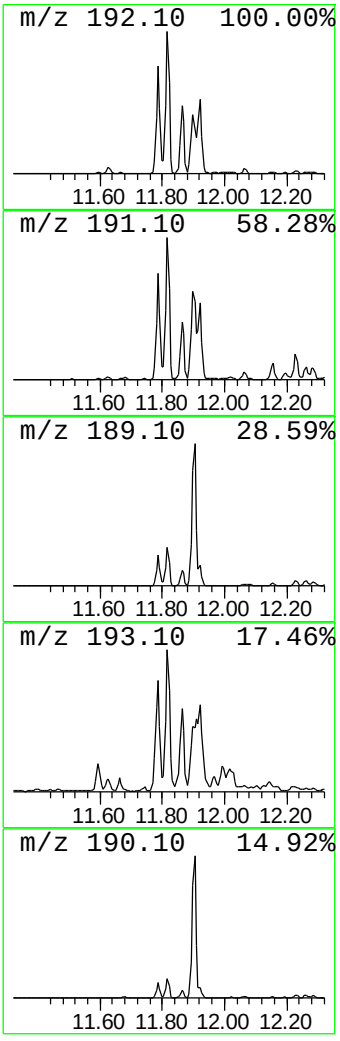
****

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	35.34 ng	1093010	Phenanthrene-d10	11.29

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

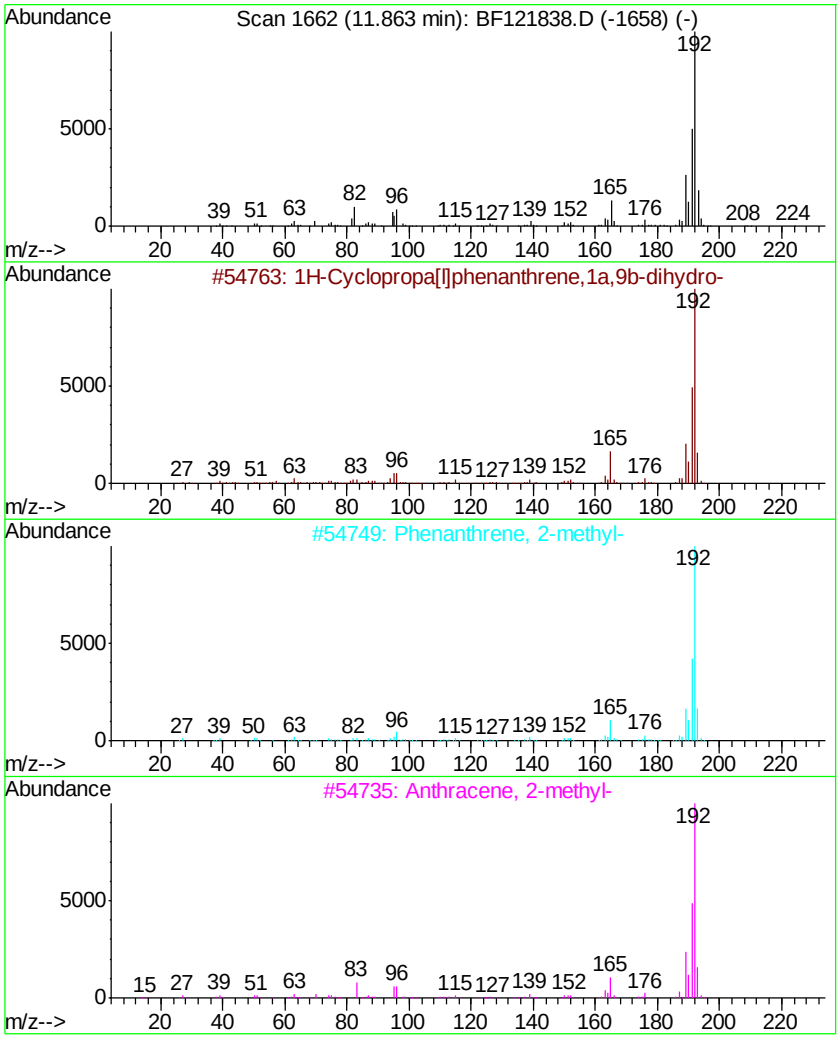
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

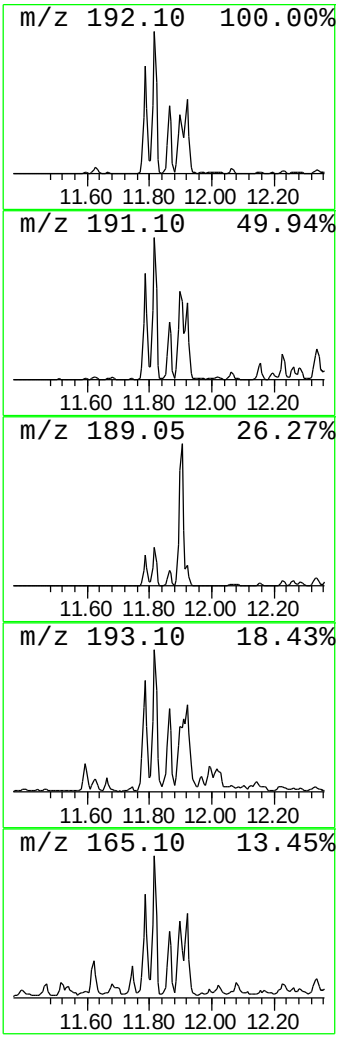
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	17.43 ng	539183	Phenanthrene-d10	11.29

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





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Operator : JU/CG
Sample : L4247-09 10X
Misc :
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Instrument : BNA_F
ClientSampleId : B-19(7-9)

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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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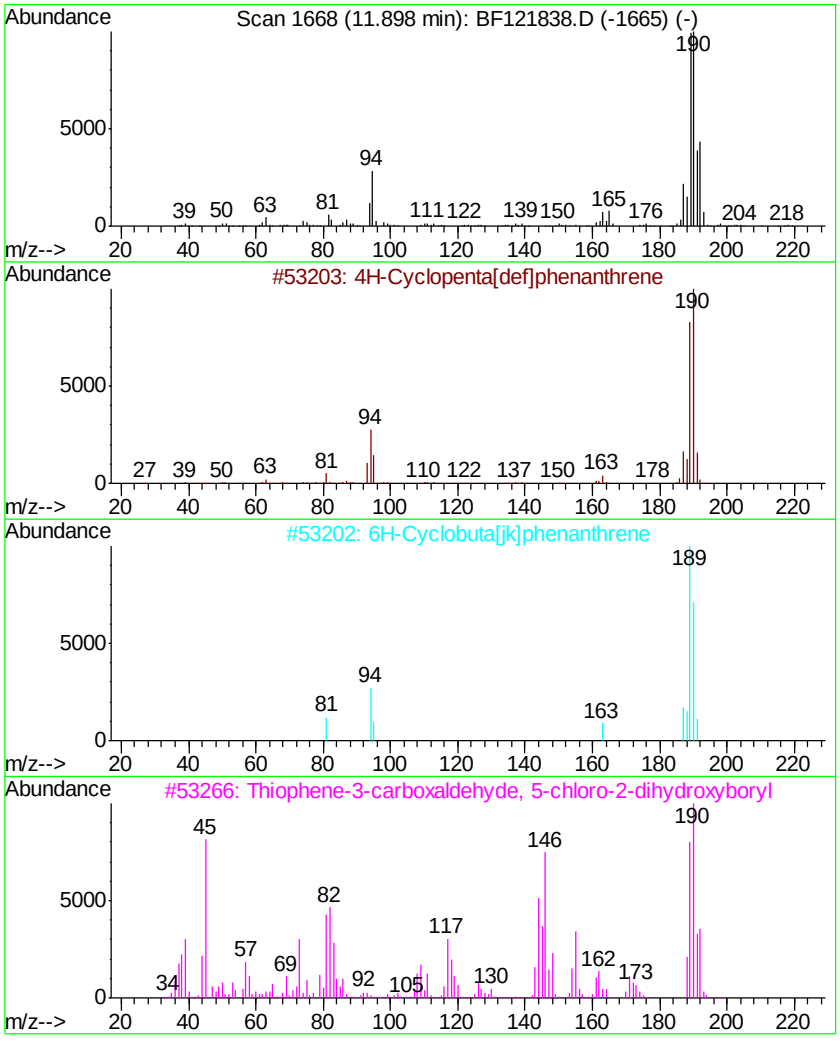
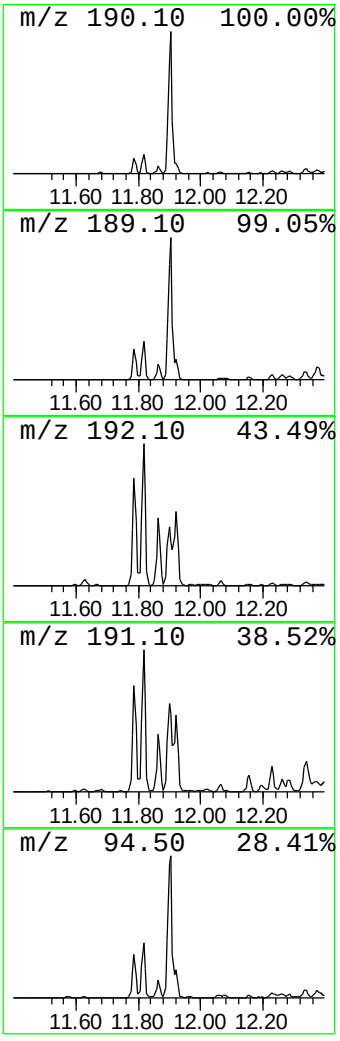
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	64.21 ng	1986030	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	49





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Misc :
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Instrument : BNA_F
ClientSampleId : B-19(7-9)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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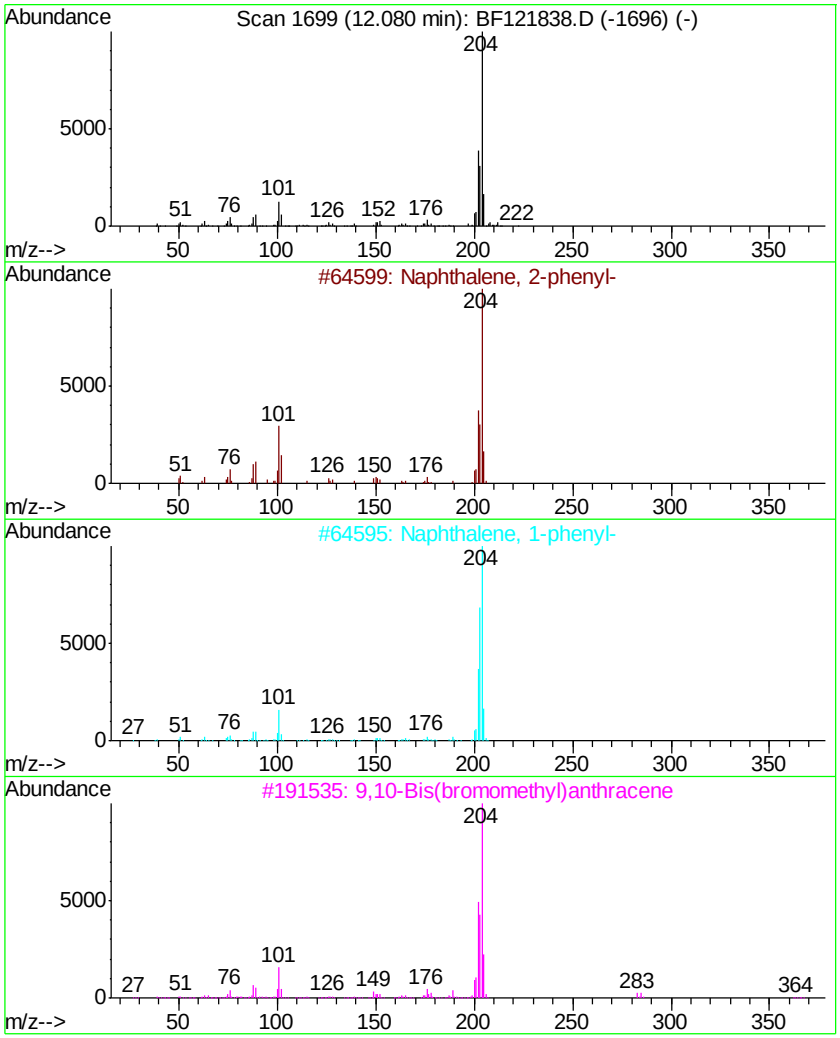
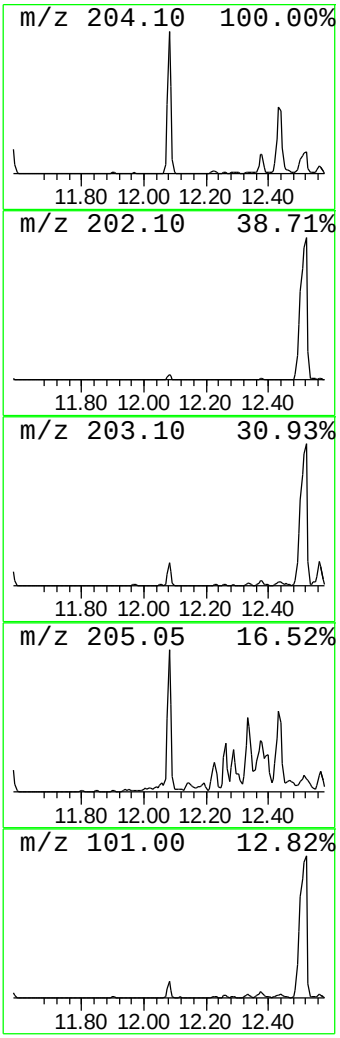
Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	22.55 ng	697478	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	74
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	49





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ClientSampleId : B-19(7-9)

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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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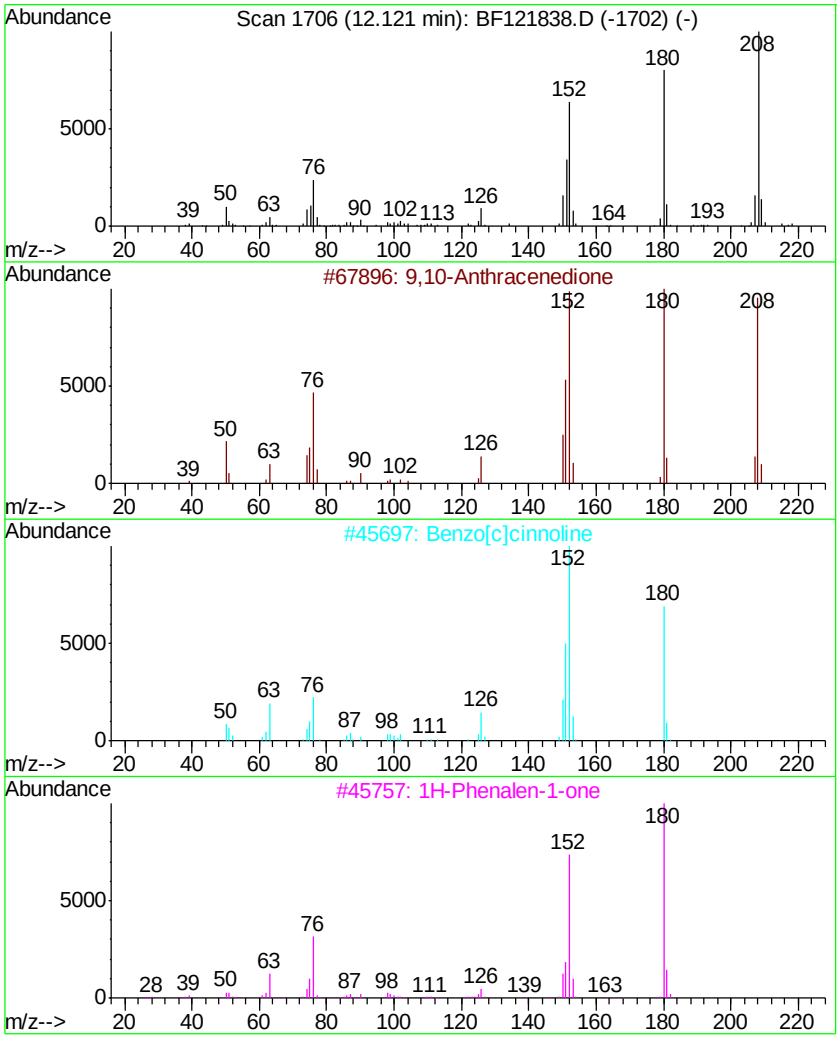
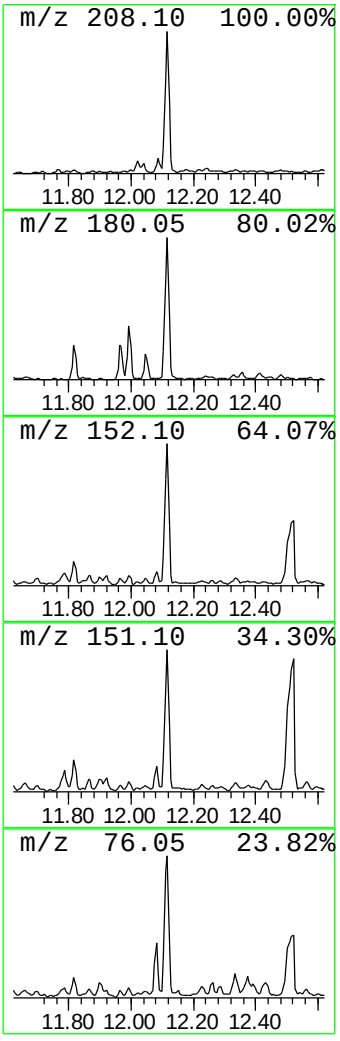
Peak Number 8 9,10-Anthracenedione Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	15.99 ng	494403	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	41
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	35





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ClientSampleId : B-19(7-9)

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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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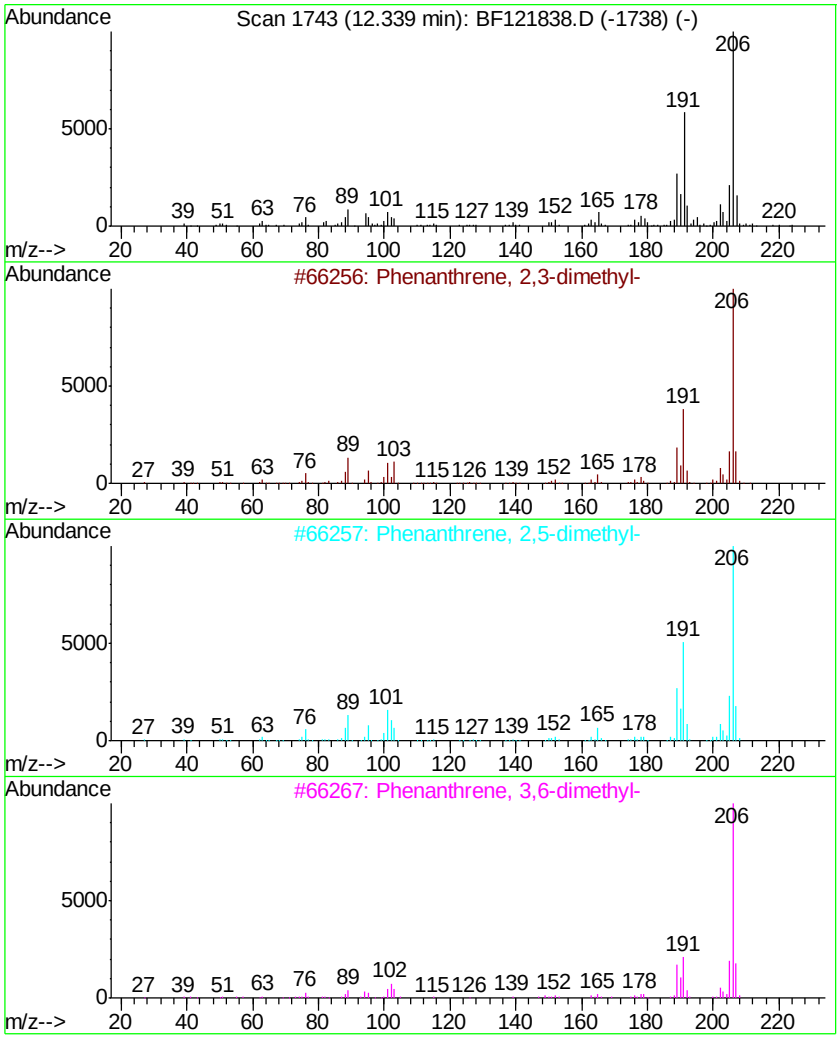
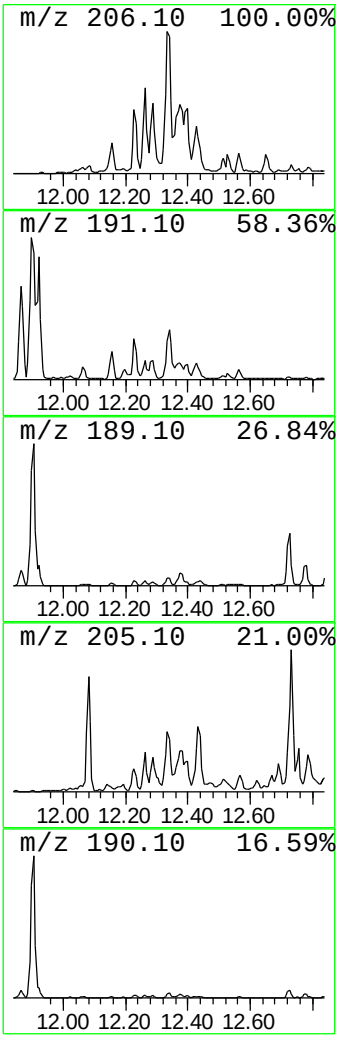
Peak Number 9 Phenanthrene, 2,3-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	13.94 ng	431255	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89





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Instrument : BNA_F
ClientSampleId : B-19(7-9)

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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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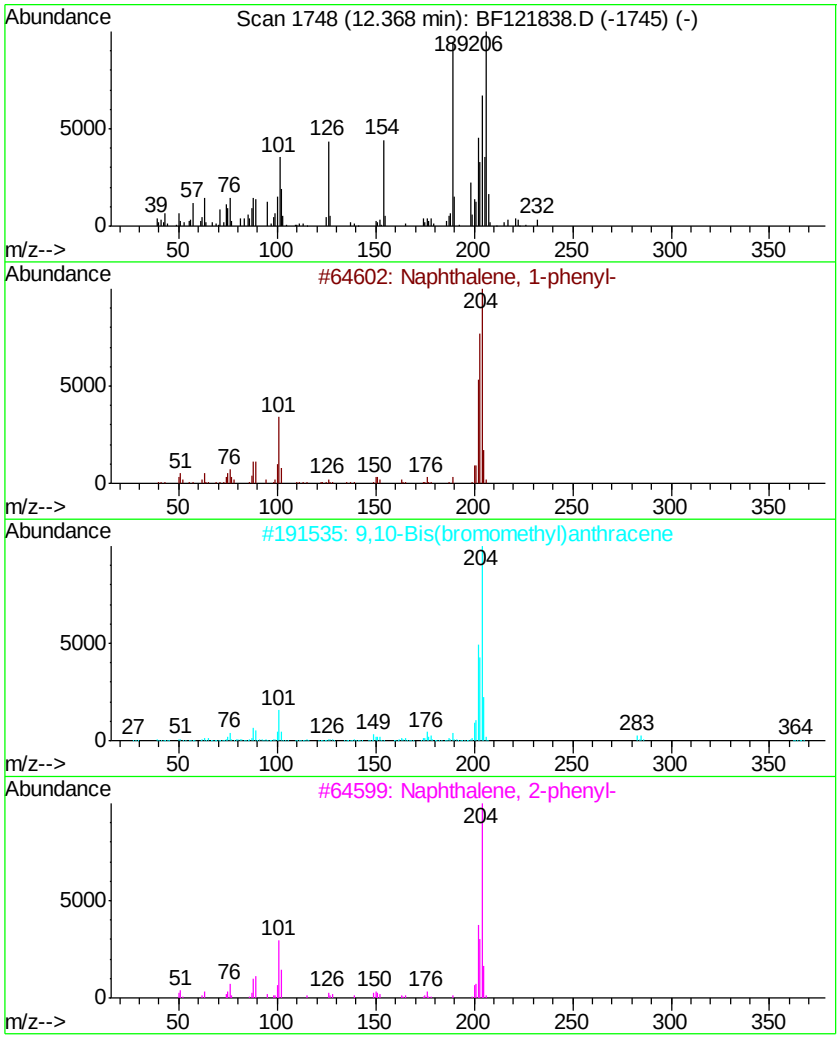
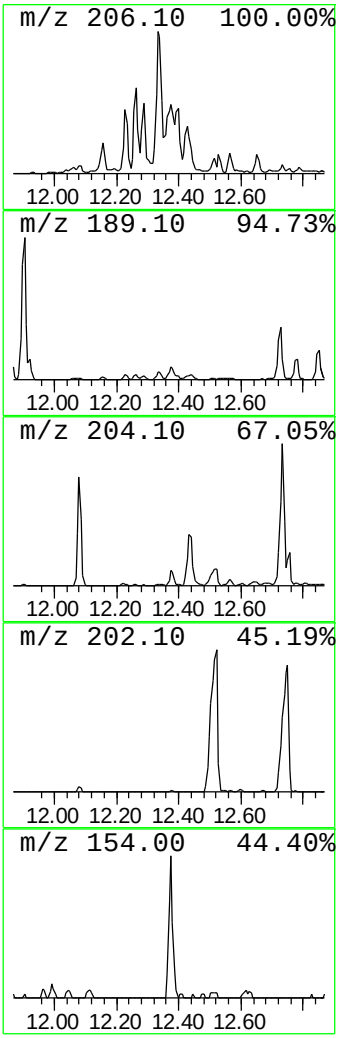
Peak Number 10 unknown12.37 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	15.46 ng	478080	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	44
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	42
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	35
5	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	35





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Instrument : BNA_F
ClientSampleId : B-19(7-9)

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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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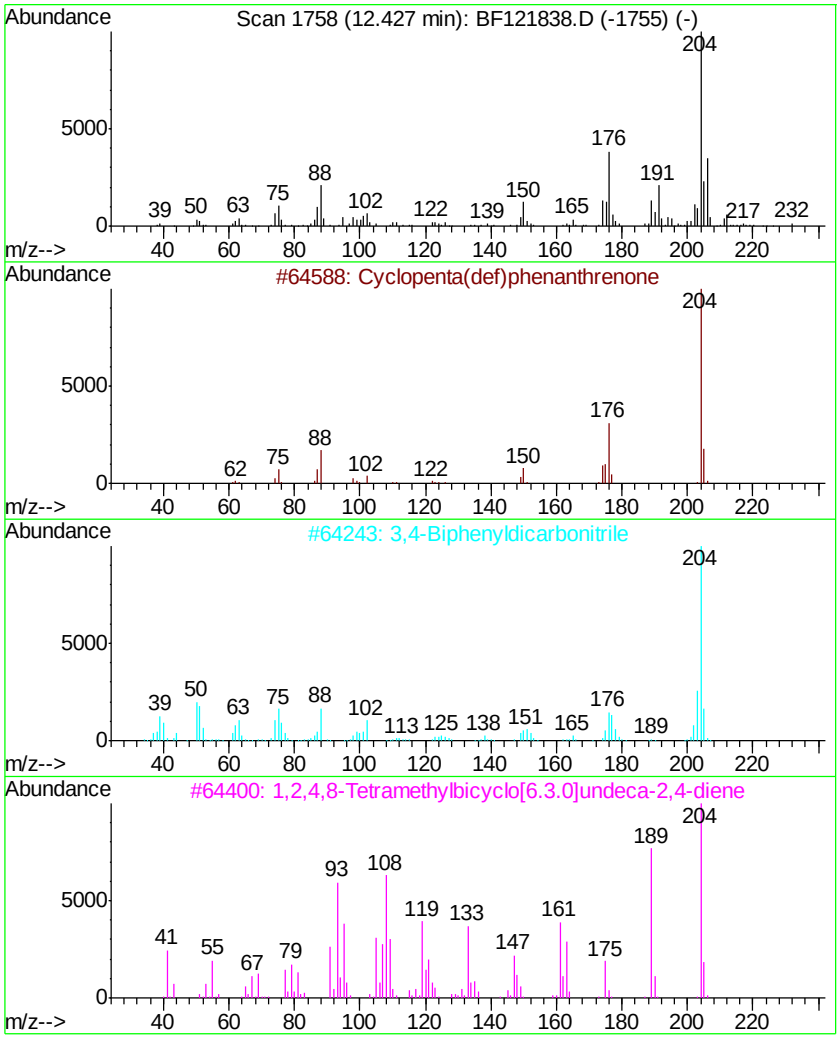
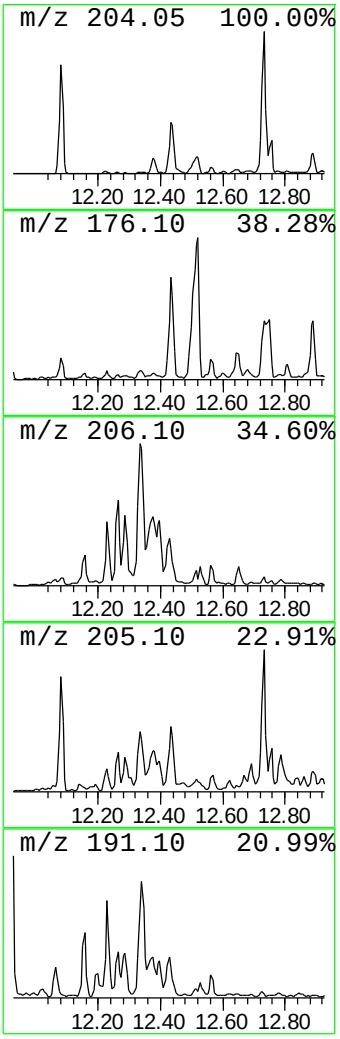
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	18.92 ng	585144	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	72
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	60
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	47





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Sample : L4247-09 10X
Misc :
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Instrument : BNA_F
ClientSampleId : B-19(7-9)

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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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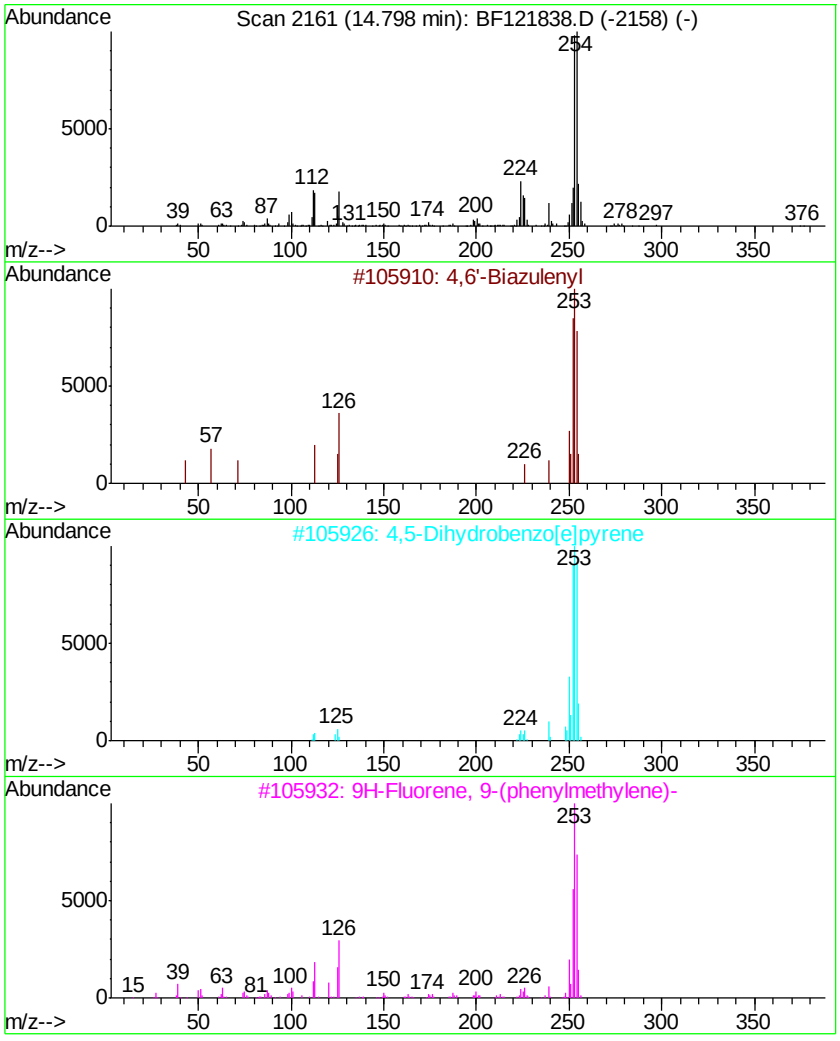
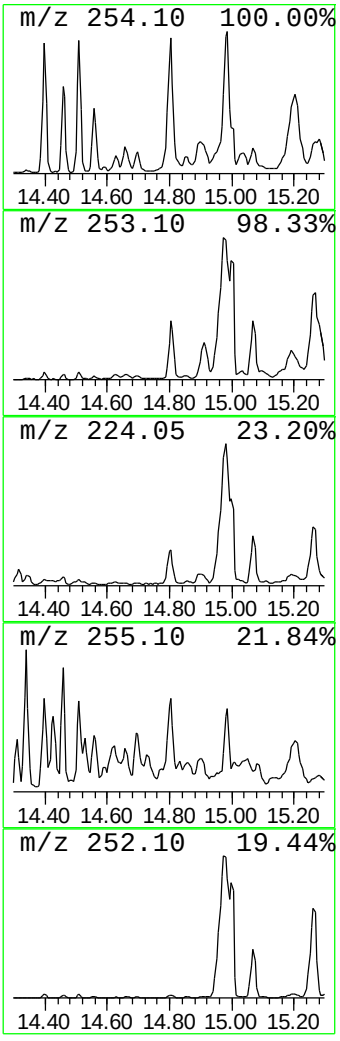
Peak Number 12 4,6'-Biazulenyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.80	17.74 ng	574573	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,6'-Biazulenyl	254	C20H14	094154-49-1	74
2	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	74
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	72
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	64
5	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	64





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ClientSampleId : B-19(7-9)

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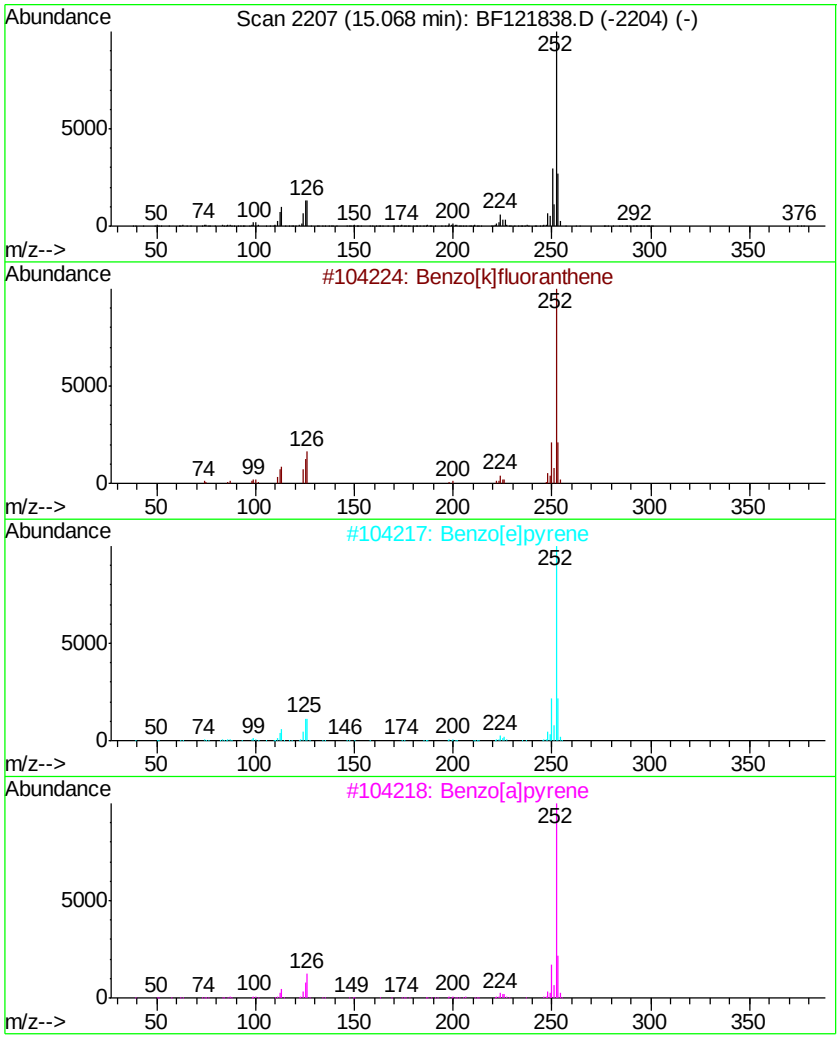
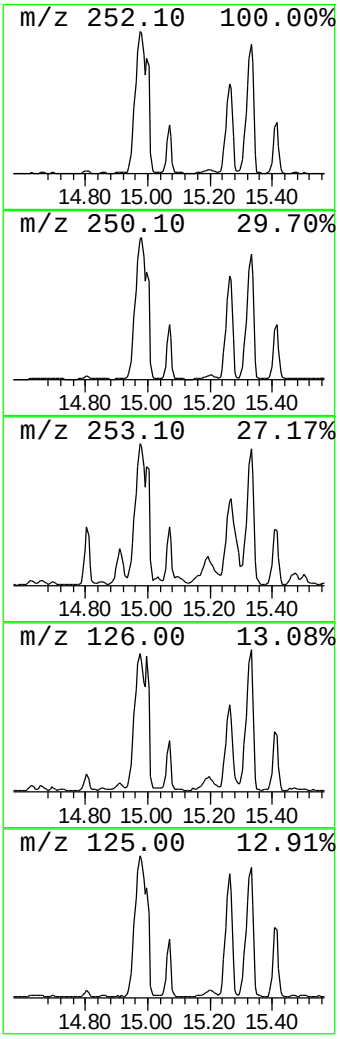
Peak Number 13 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	34.76 ng	1125660	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	91





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ClientSampleId : B-19(7-9)

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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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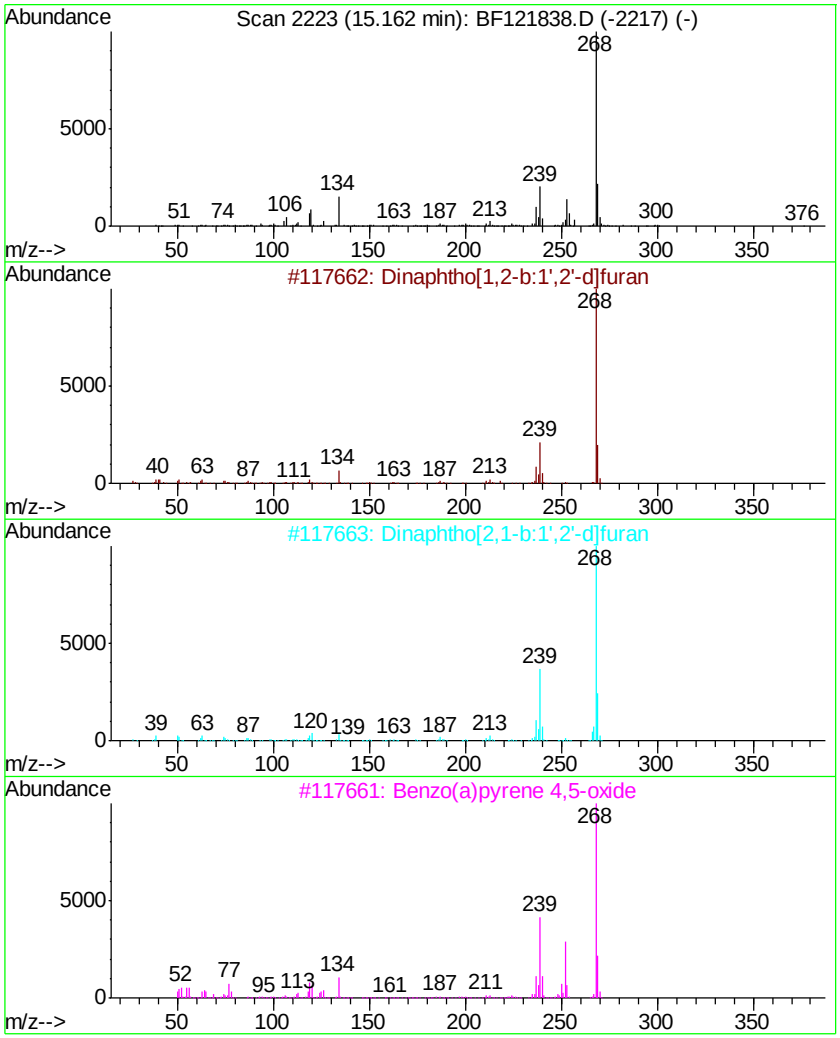
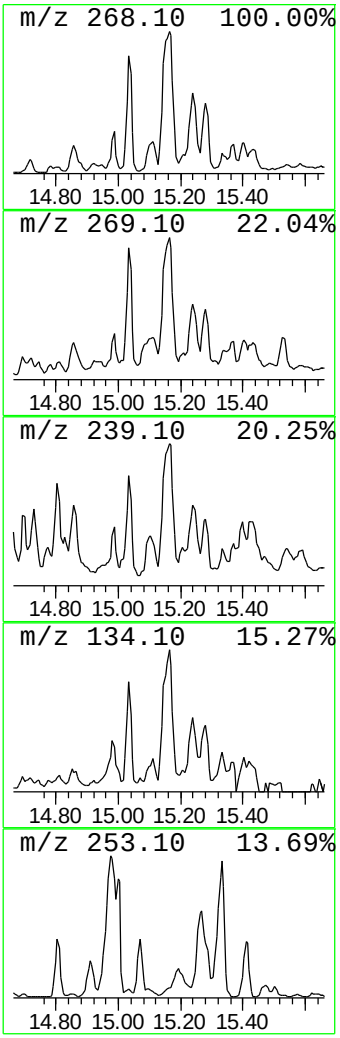
Peak Number 14 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	23.40 ng	757831	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	94
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	83
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	83
4	10-Hydroxy-5-methoxy-2-methyl-1,...	268	C16H12O4	084542-45-0	59
5	4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	59





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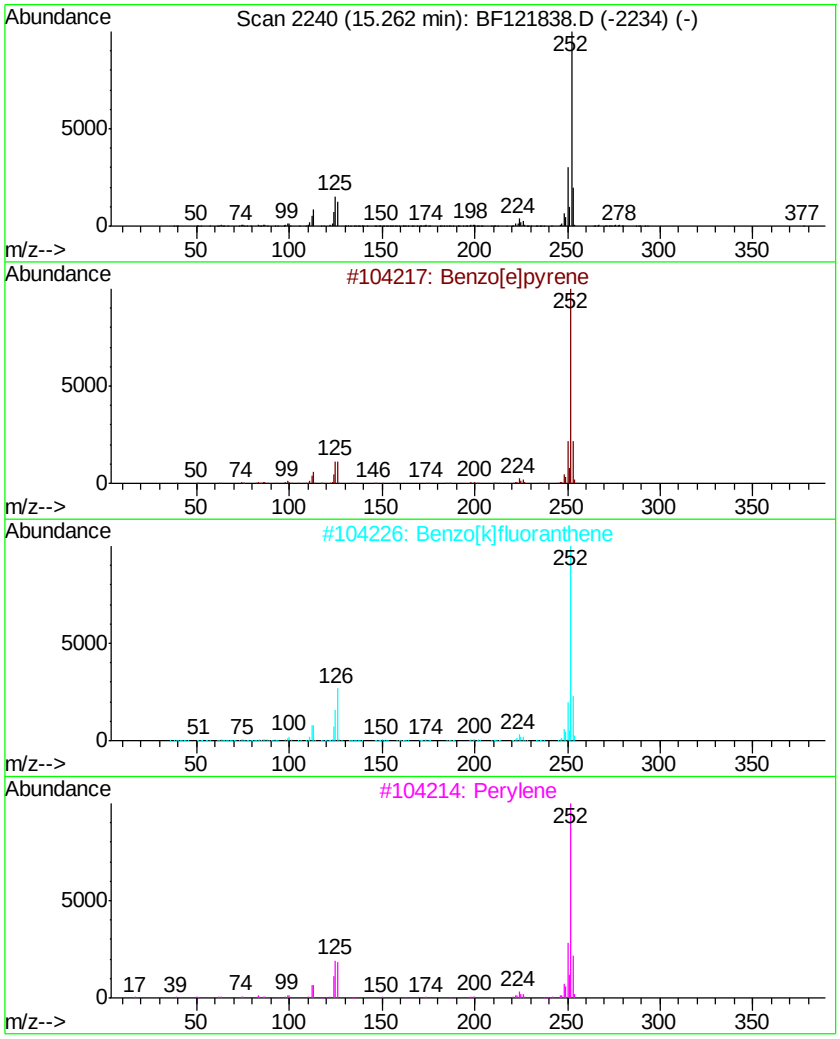
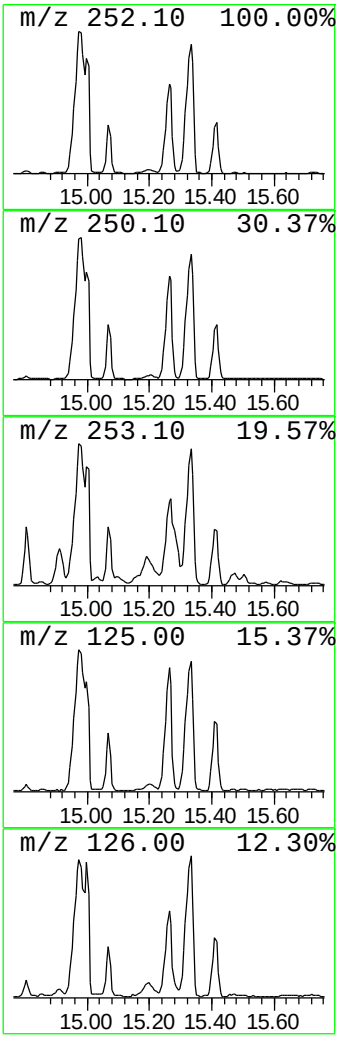
Peak Number 15 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.26	98.58 ng	3192570	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





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TIC Integration Parameters: LSCINT.P

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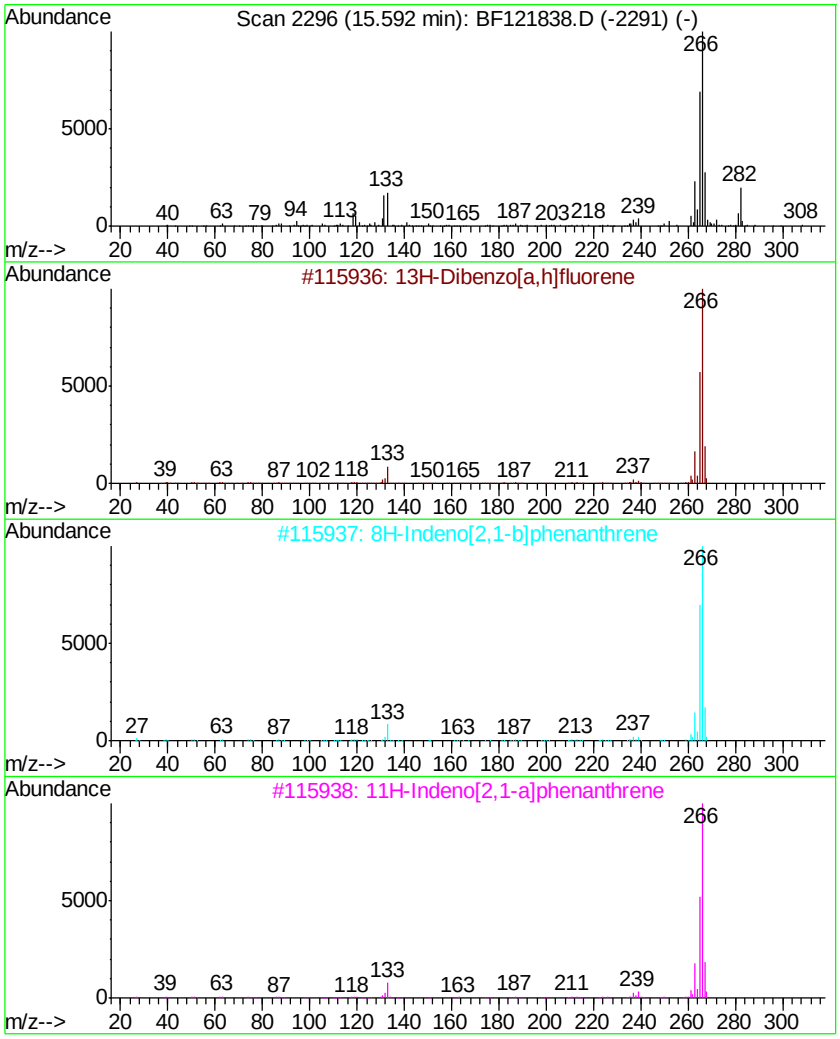
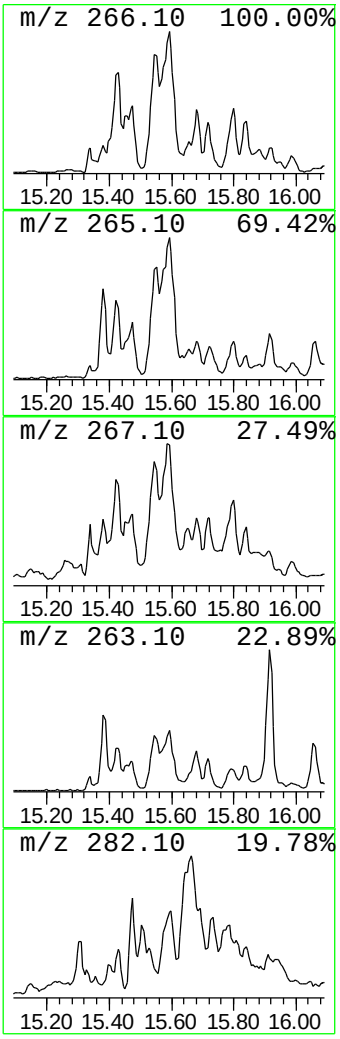
Peak Number 16 13H-Dibenzo[a,h]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.59	18.54 ng	600338	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	93
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	76
3	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	70
4	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	58
5	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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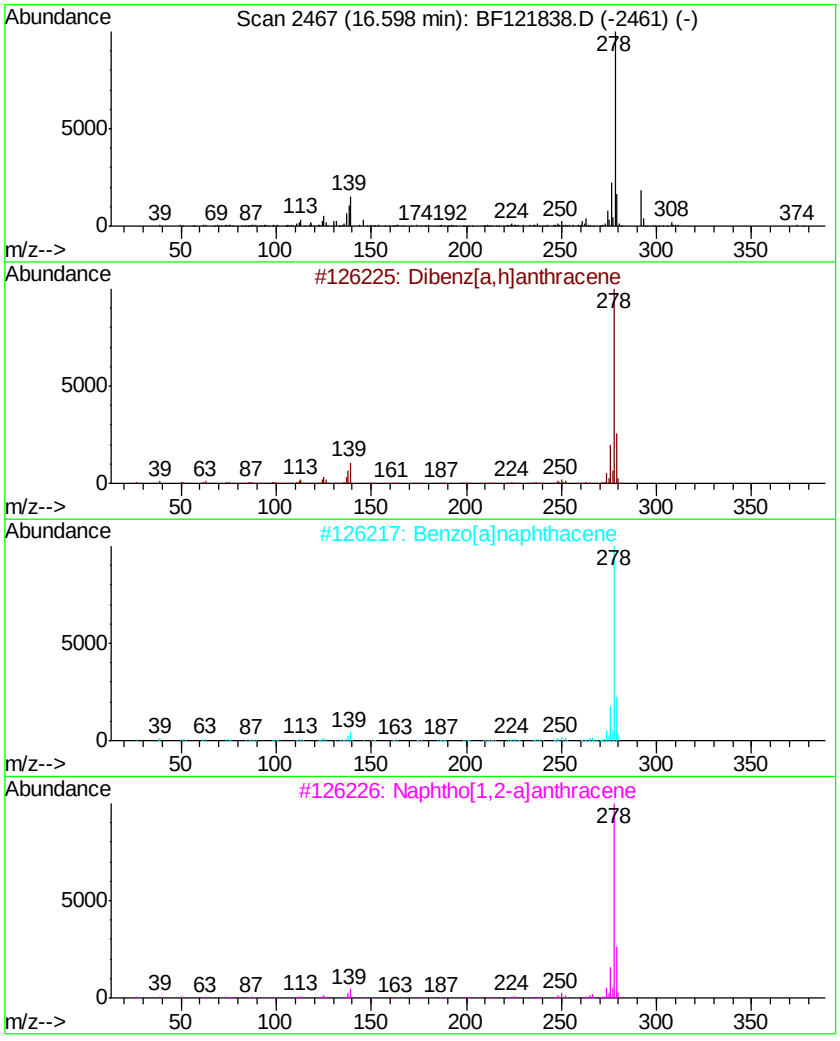
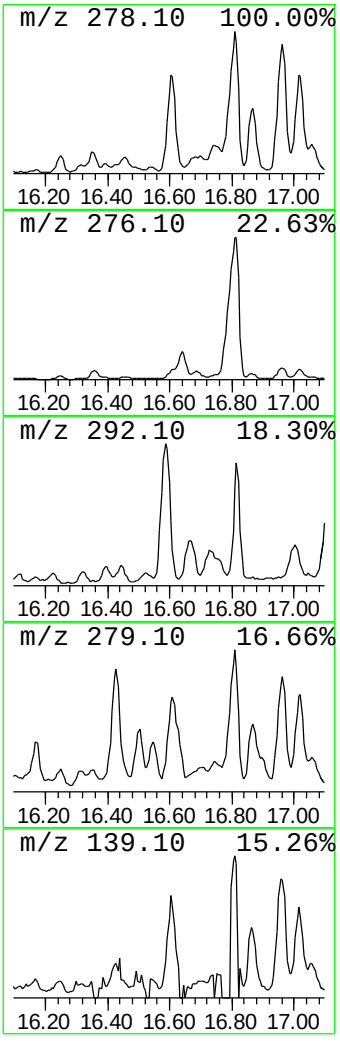
Peak Number 17 Benzo[a]naphthacene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.60	16.06 ng	520004	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
2	Benzo[a]naphthacene	278	C22H14	000226-88-0	90
3	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	89
4	Pentacene	278	C22H14	000135-48-8	89
5	Benzo[b]chrysene	278	C22H14	000214-17-5	89





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Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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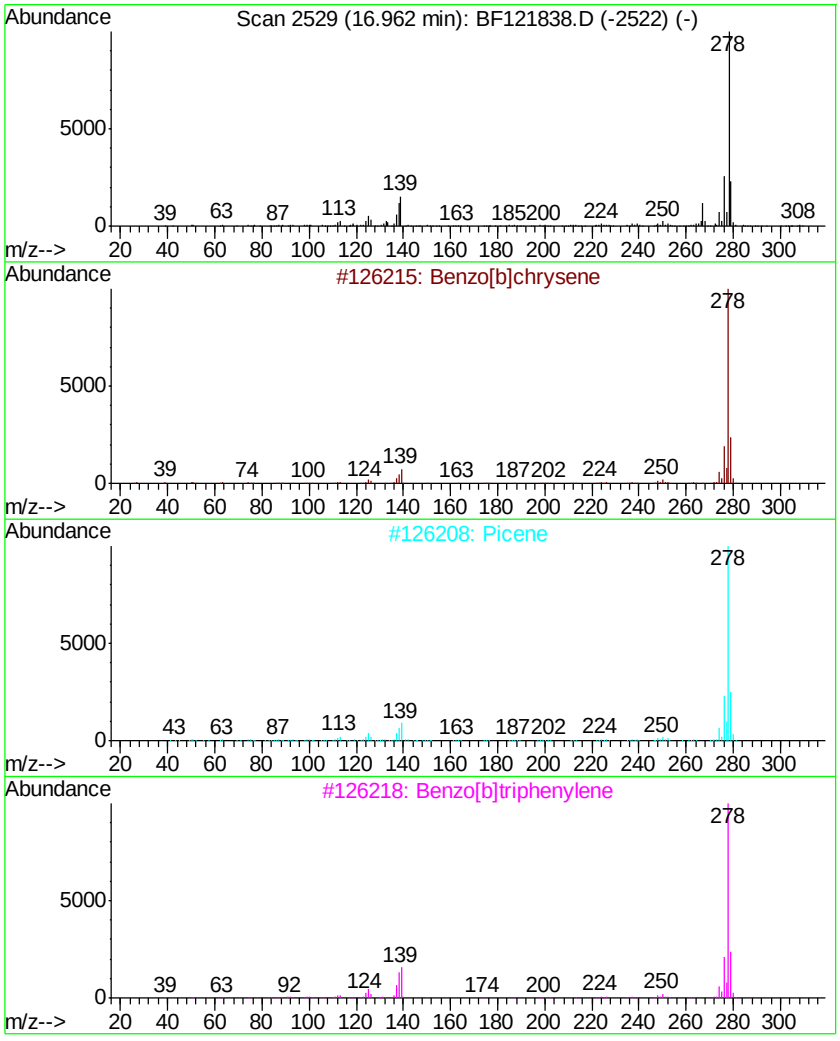
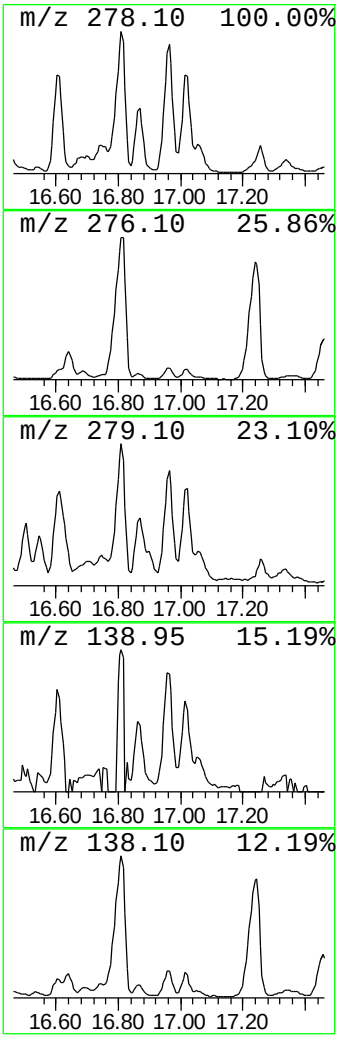
Peak Number 18 Benzo[b]chrysene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.96	24.38 ng	789488	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]chrysene	278	C22H14	000214-17-5	98
2	Picene	278	C22H14	000213-46-7	98
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	97





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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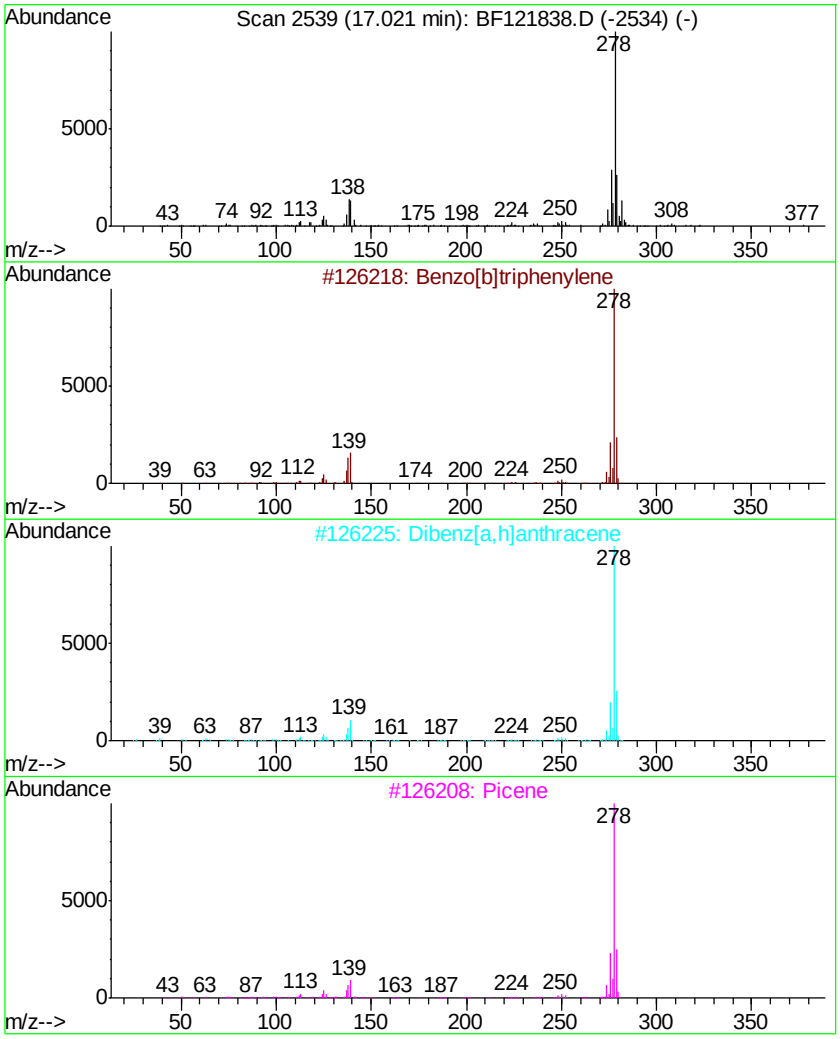
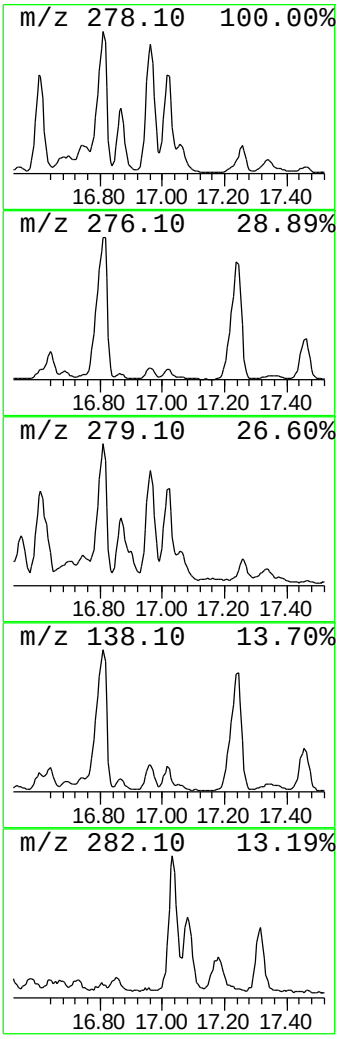
Peak Number 19 Benzo[b]triphenylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.02	13.58 ng	439625	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
3	Picene	278	C22H14	000213-46-7	98
4	Pentaphene	278	C22H14	000222-93-5	97
5	Benzo[b]chrysene	278	C22H14	000214-17-5	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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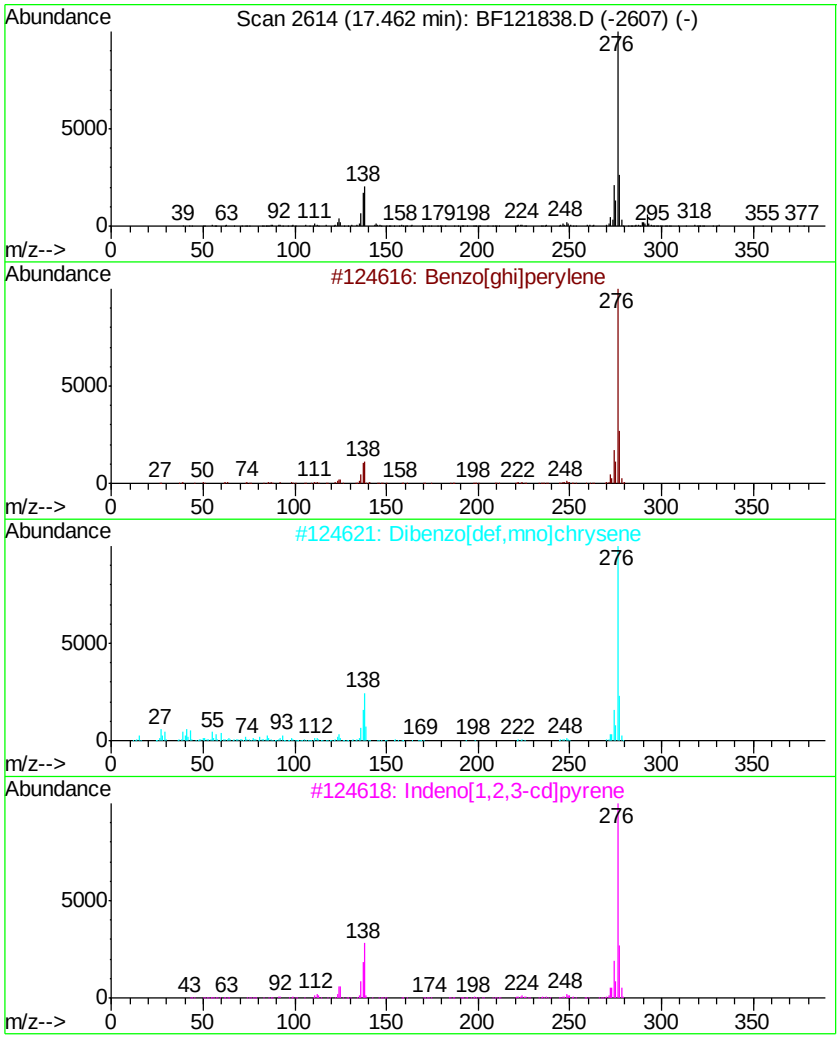
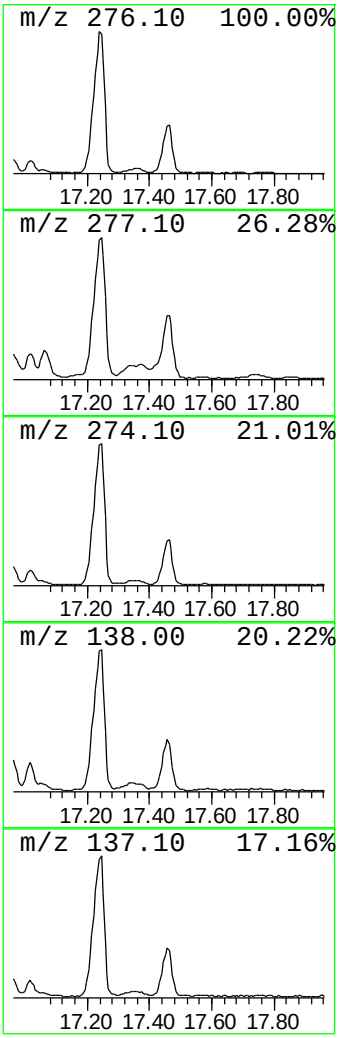
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.46	30.52 ng	988310	Perylene-d12	15.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	97
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	42





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF100520\
Data File : BF121838.D
Acq On : 6 Oct 2020 2:02
Operator : JU/CG
Sample : L4247-09 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-19(7-9)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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...	10.89	11.2	ng	345294	4	11.29	618568	20.0
Naphtho[2,1-b]thi...	11.18	16.1	ng	497941	4	11.29	618568	20.0
Phenanthrene, 2-m...	11.79	29.4	ng	908424	4	11.29	618568	20.0
Anthracene, 2-met...	11.82	35.3	ng	1093010	4	11.29	618568	20.0
1H-Cyclopropa[l]p...	11.86	17.4	ng	539183	4	11.29	618568	20.0
4H-Cyclopenta[def...	11.90	64.2	ng	1986030	4	11.29	618568	20.0
Naphthalene, 2-ph...	12.08	22.6	ng	697478	4	11.29	618568	20.0
9,10-Anthracenedione	12.12	16.0	ng	494403	4	11.29	618568	20.0
Phenanthrene, 2,3...	12.34	13.9	ng	431255	4	11.29	618568	20.0
unknown12.37	12.37	15.5	ng	478080	4	11.29	618568	20.0
Cyclopenta(def)ph...	12.43	18.9	ng	585144	4	11.29	618568	20.0
4,6'-Biazulenyl	14.80	17.7	ng	574573	6	15.38	647689	20.0
Benzo[e]pyrene	15.07	34.8	ng	1125660	6	15.38	647689	20.0
Dinaphtho[1,2-b:1...	15.16	23.4	ng	757831	6	15.38	647689	20.0
Perylene	15.26	98.6	ng	3192570	6	15.38	647689	20.0
13H-Dibenzo[a,h]f...	15.59	18.5	ng	600338	6	15.38	647689	20.0
Benzo[a]naphthacene	16.60	16.1	ng	520004	6	15.38	647689	20.0
Benzo[b]chrysene	16.96	24.4	ng	789488	6	15.38	647689	20.0
Benzo[b]triphenylene	17.02	13.6	ng	439625	6	15.38	647689	20.0
Dibenzo[def,mno]c...	17.46	30.5	ng	988310	6	15.38	647689	20.0