LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121805.D
Acq On : 2 Oct 2020 20:52
Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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	4.975	488	491	501	rBV	53530	70549	2.04%	0.135%
2	5.387	557	561	579	rBV	2387526	2234327	64.49%	4.286%
3	6.404	729	734	747	rBV	2428098	2330894	67.27%	4.472%
4	6.763	791	795	803	rBV	886226	715330	20.65%	1.372%
5	7.328	886	891	894	rBV	1736728	1564153	45.14%	3.001%
6	8.045	1008	1013	1015	rBV	1027105	882769	25.48%	1.694%
7	8.069	1015	1017	1023	rVB	303780	241648	6.97%	0.464%
8	8.757	1131	1134	1141	rVB	112615	93076	2.69%	0.179%
9	8.857	1146	1151	1158	rVB	96811	80772	2.33%	0.155%
10	9.122	1191	1196	1199	rBV	3144134	2634551	76.04%	5.054%
11	9.457	1249	1253	1256	rVV	74376	75714	2.19%	0.145%
12	9.516	1260	1263	1267	rVV	294339	233621	6.74%	0.448%
13	9.657	1284	1287	1291	rBV	187039	153157	4.42%	0.294%
14	9.798	1305	1311	1314	rBV	1048418	891838	25.74%	1.711%
15	9.827	1314	1316	1320	rVB	389580	334333	9.65%	0.641%
16	10.004	1342	1346	1350	rBV	215721	198473	5.73%	0.381%
17	10.345	1400	1404	1409	rVB	418451	358977	10.36%	0.689%
18	10.504	1428	1431	1434	rVB	97801	86740	2.50%	0.166%
19	10.586	1439	1445	1449	rBV	1399856	1268199	36.60%	2.433%
20	10.710	1461	1466	1473	rVB4	53639	81592	2.35%	0.157%
21	10.892	1491	1497	1500	rBV3	90372	125060	3.61%	0.240%
22	11.021	1514	1519	1521	rVV3	56140	76663	2.21%	0.147%
23	11.045	1521	1523	1527	rVV	65882	72796	2.10%	0.140%
24	11.086	1527	1530	1534	rVV	144033	141369	4.08%	0.271%
25	11.133	1534	1538	1543	rVV3	68665	115402	3.33%	0.221%
26	11.180	1543	1546	1551	rVB	187581	168444	4.86%	0.323%
27	11.286	1558	1564	1565	rBV	814625	787569	22.73%	1.511%
28	11.310	1565	1568	1571	rVV	2850716	2564491	74.01%	4.920%
29	11.357	1571	1576	1579	rVV	880678	793765	22.91%	1.523%
30	11.516	1597	1603	1605	rBV2	401888	412634	11.91%	0.792%
31	11.574	1611	1613	1617	rBV2	82522	79586	2.30%	0.153%
32	11.616	1617	1620	1625	rVB4	61268	70064	2.02%	0.134%
33	11.786	1643	1649	1651	rBV	313487	311530	8.99%	0.598%
34	11.810	1651	1653	1657	rVV	445411	396648	11.45%	0.761%

LSC Area Percent Report

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Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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	11.863	1657	1662	1664	rVV	189129	189284	5.46%	0.363%
36	11.898	1664	1668	1670	rVV	582488	616906	17.80%	1.183%
37	11.916	1670	1671	1676	rVB	211895	156386	4.51%	0.300%
38	11.986	1681	1683	1686	rVB2	70032	63751	1.84%	0.122%
39	12.080	1696	1699	1701	rBV	235861	196596	5.67%	0.377%
40	12.110	1701	1704	1706	rVB	168215	145681	4.20%	0.279%
41	12.227	1719	1724	1727	rBV3	79392	82144	2.37%	0.158%
42	12.333	1737	1742	1745	rBV	162861	201867	5.83%	0.387%
43	12.374	1745	1749	1751	rVV2	137196	179762	5.19%	0.345%
44	12.421	1754	1757	1762	rVV	183426	211727	6.11%	0.406%
45	12.504	1766	1771	1774	rVV	3486866	3418872	98.67%	6.559%
46	12.557	1778	1780	1783	rVV	104927	104881	3.03%	0.201%
47	12.592	1783	1786	1788	rVB	78555	72318	2.09%	0.139%
48	12.645	1788	1795	1799	rBV2	138116	213492	6.16%	0.410%
49	12.727	1803	1809	1814	rBV2	2671161	3464842	100.00%	6.647%
50	12.774	1814	1817	1821	rVB2	147379	139385	4.02%	0.267%
51	12.845	1824	1829	1830	rBV	213390	236574	6.83%	0.454%
52	12.868	1830	1833	1839	rVB	2478477	2311990	66.73%	4.435%
53	12.945	1840	1846	1849	rBV2	204023	379812	10.96%	0.729%
54	12.974	1849	1851	1853	rVB	106492	78506	2.27%	0.151%
55	13.027	1857	1860	1862	rBV3	167650	211308	6.10%	0.405%
56	13.051	1862	1864	1867	rVB	525132	473184	13.66%	0.908%
57	13.115	1867	1875	1878	rBV	415129	512082	14.78%	0.982%
58	13.157	1878	1882	1884	rVV2	319895	399616	11.53%	0.767%
59	13.180	1884	1886	1889	rVB2	127419	117782	3.40%	0.226%
60	13.245	1895	1897	1900	rVB	128238	115163	3.32%	0.221%
61	13.274	1900	1902	1906	rBV2	148856	175399	5.06%	0.336%
62	13.439	1926	1930	1932	rBV3	88127	127784	3.69%	0.245%
63	13.474	1934	1936	1939	rVV2	96653	90021	2.60%	0.173%
64	13.533	1943	1946	1948	rBV2	73680	80578	2.33%	0.155%
65	13.563	1948	1951	1955	rVB	272708	269106	7.77%	0.516%
66	13.668	1965	1969	1972	rBV	337127	382780	11.05%	0.734%
67	13.698	1972	1974	1976	rVB	260664	184123	5.31%	0.353%
68	13.721	1976	1978	1979	rBV	204330	152607	4.40%	0.293%
69	13.768	1984	1986	1993	rVB2	463765	530601	15.31%	1.018%
70	13.839	1996	1998	2004	rVB	85916	85523	2.47%	0.164%
71	13.915	2004	2011	2015	rBV2	1955239	3121125	90.08%	5.988%

LSC Area Percent Report

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Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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	13.951	2015	2017	2020	rVB	1648337	1258220	36.31%	2.414%
73	14.027	2027	2030	2033	rVB	370053	282019	8.14%	0.541%
74	14.068	2035	2037	2038	rBV	76461	63643	1.84%	0.122%
75	14.115	2042	2045	2047	rVV	163307	148116	4.27%	0.284%
76	14.151	2047	2051	2054	rVB2	202276	244681	7.06%	0.469%
77	14.239	2063	2066	2068	rBV2	63410	76832	2.22%	0.147%
78	14.268	2069	2071	2073	rVV	102497	104680	3.02%	0.201%
79	14.310	2074	2078	2081	rVV	328883	336798	9.72%	0.646%
80	14.339	2081	2083	2087	rVB	151585	129535	3.74%	0.249%
81	14.404	2088	2094	2096	rBV2	162730	241691	6.98%	0.464%
82	14.433	2096	2099	2101	rVV	188115	189898	5.48%	0.364%
83	14.451	2101	2102	2105	rVB	175607	133201	3.84%	0.256%
84	14.615	2127	2130	2132	rBV	150677	147018	4.24%	0.282%
85	14.686	2140	2142	2146	rVB4	111405	127258	3.67%	0.244%
86	14.792	2157	2160	2164	rBV2	110536	136569	3.94%	0.262%
87	14.957	2182	2188	2190	rBV	1360188	2103668	60.71%	4.036%
88	15.015	2196	2198	2201	rVB2	108028	107520	3.10%	0.206%
89	15.051	2201	2204	2208	rVB	302712	311929	9.00%	0.598%
90	15.139	2215	2219	2220	rBV2	89128	109022	3.15%	0.209%
91	15.245	2232	2237	2242	rVB	751905	958805	27.67%	1.839%
92	15.304	2242	2247	2252	rVB	1156944	1382151	39.89%	2.652%
93	15.362	2252	2257	2260	rBV	549015	759347	21.92%	1.457%
94	15.392	2260	2262	2268	rVB	394693	451441	13.03%	0.866%
95	15.898	2345	2348	2353	rVB	71454	88216	2.55%	0.169%
96	16.774	2491	2497	2504	rVB	509582	920343	26.56%	1.766%
97	16.939	2521	2525	2529	rVB	86851	135468	3.91%	0.260%
98	16.998	2531	2535	2539	rVB2	71387	125430	3.62%	0.241%
99	17.203	2563	2570	2580	rVB	352229	739299	21.34%	1.418%
100	17.427	2603	2608	2614	rVB	93626	173219	5.00%	0.332%

Sum of corrected areas: 52126309

LSC Report - Integrated Chromatogram

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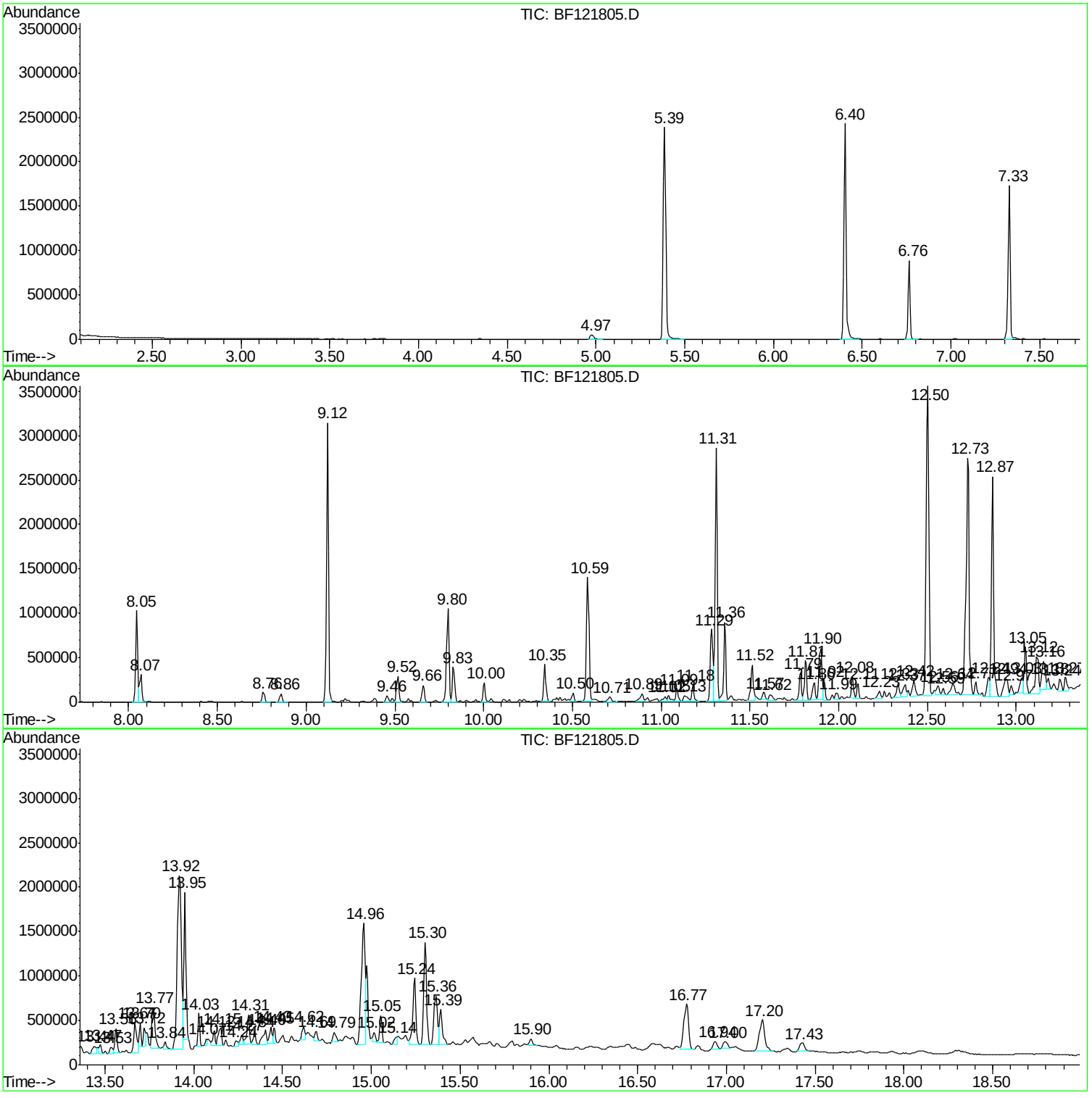
Data File : BF121805.D
Acq On : 2 Oct 2020 20:52
Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121805.D
Acq On : 2 Oct 2020 20:52
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Misc :
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Instrument : BNA_F
ClientSampleId : B-17(5-7)

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

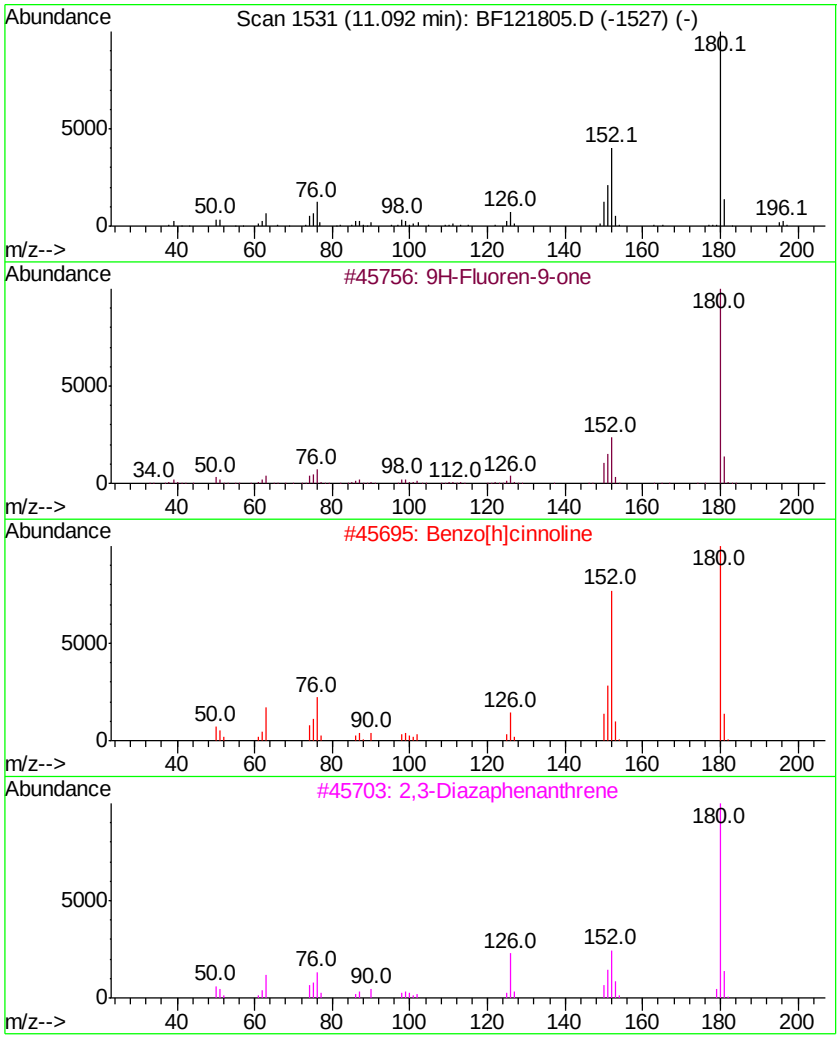
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

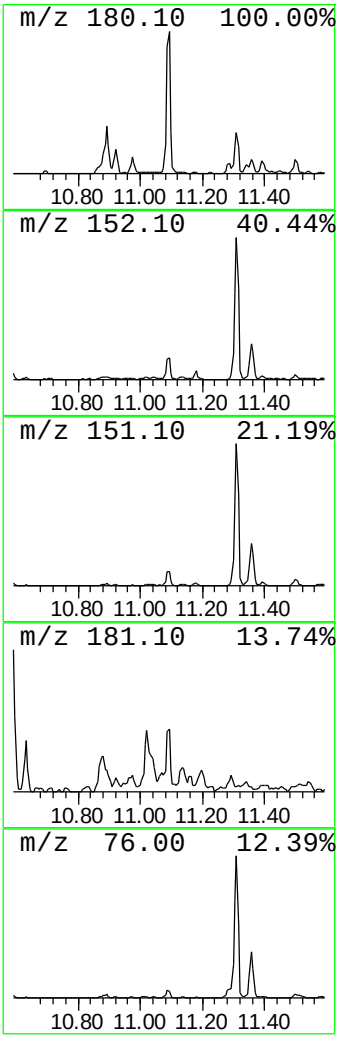
****

Peak Number 1 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	3.59 ng	141369	Phenanthrene-d10	11.29

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	87
3	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	72
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
5	Phenazine	180	C12H8N2	000092-82-0	47





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121805.D
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Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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

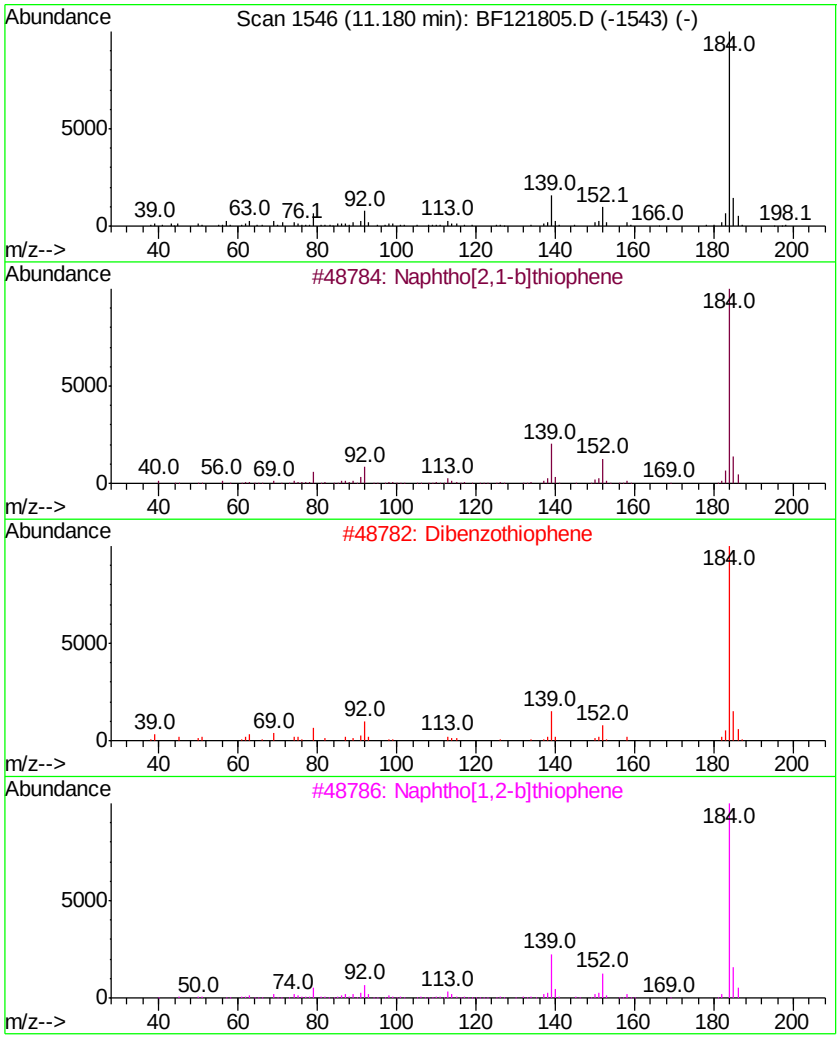
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

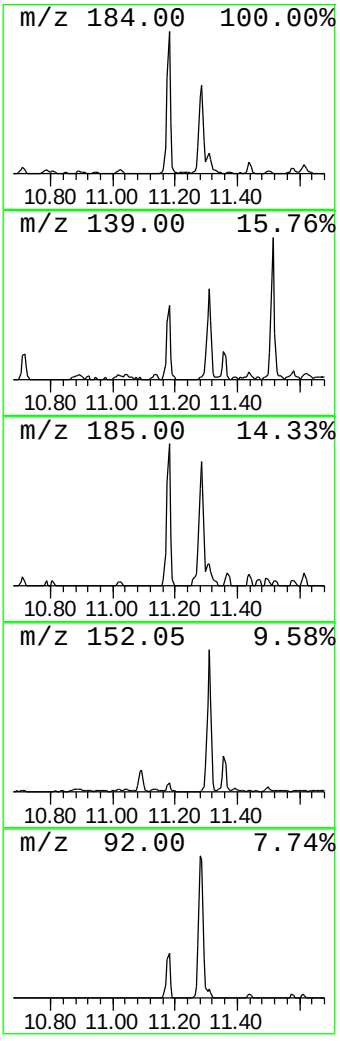
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	4.28 ng	168444	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	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : B-17(5-7)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
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TIC Library : C:\DATABASE\NIST11.L
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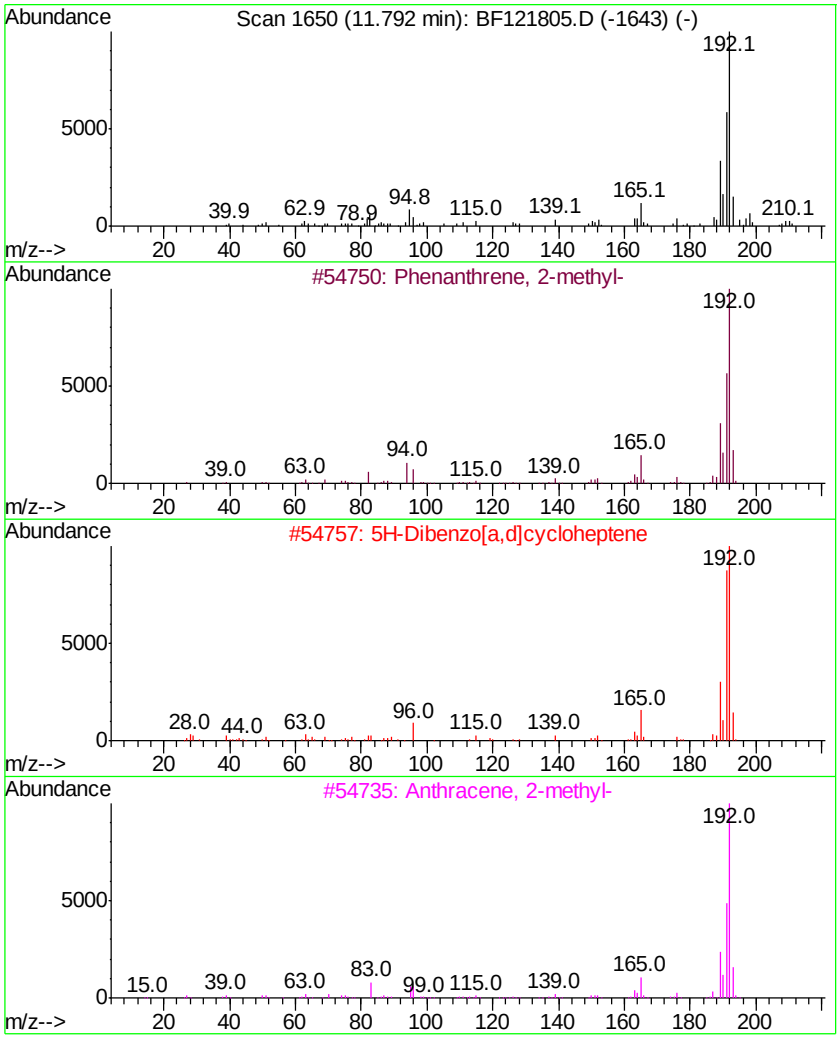
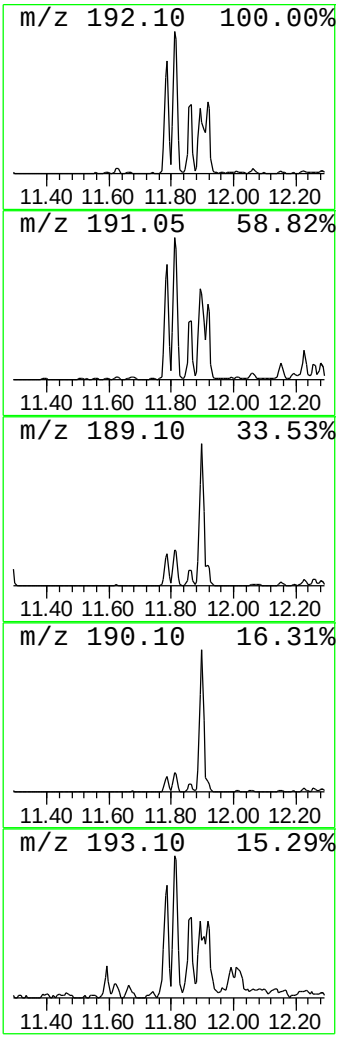
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	7.91 ng	311530	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
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Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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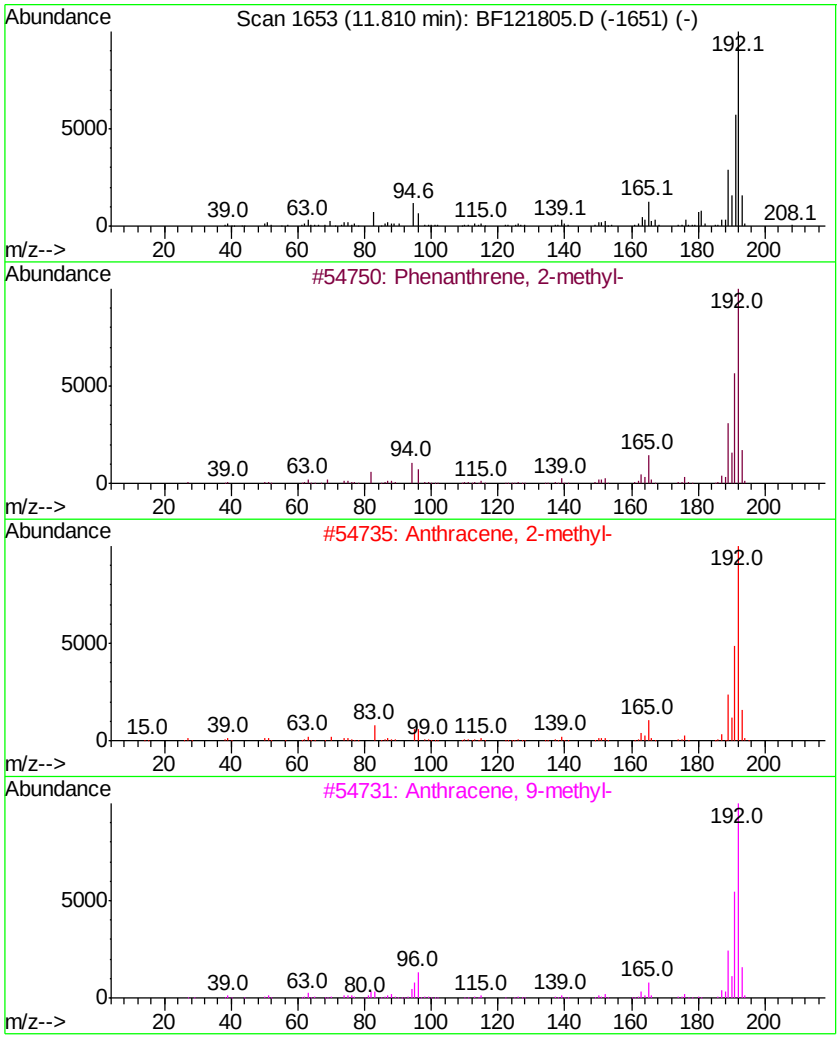
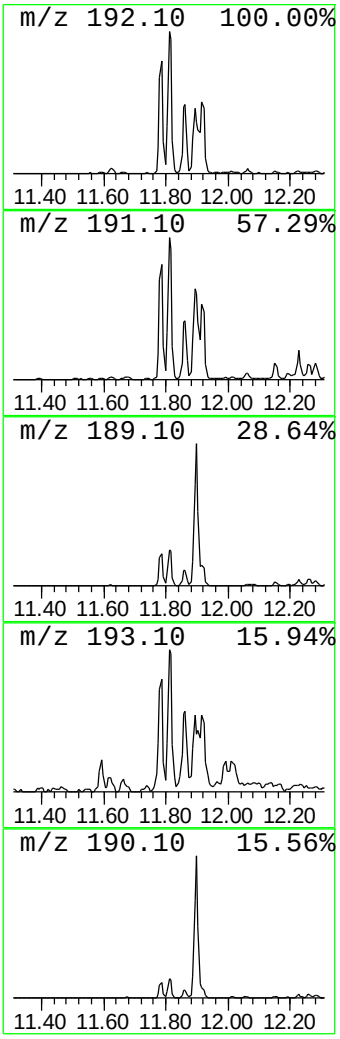
Peak Number 4 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	10.07 ng	396648	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	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121805.D
Acq On : 2 Oct 2020 20:52
Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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

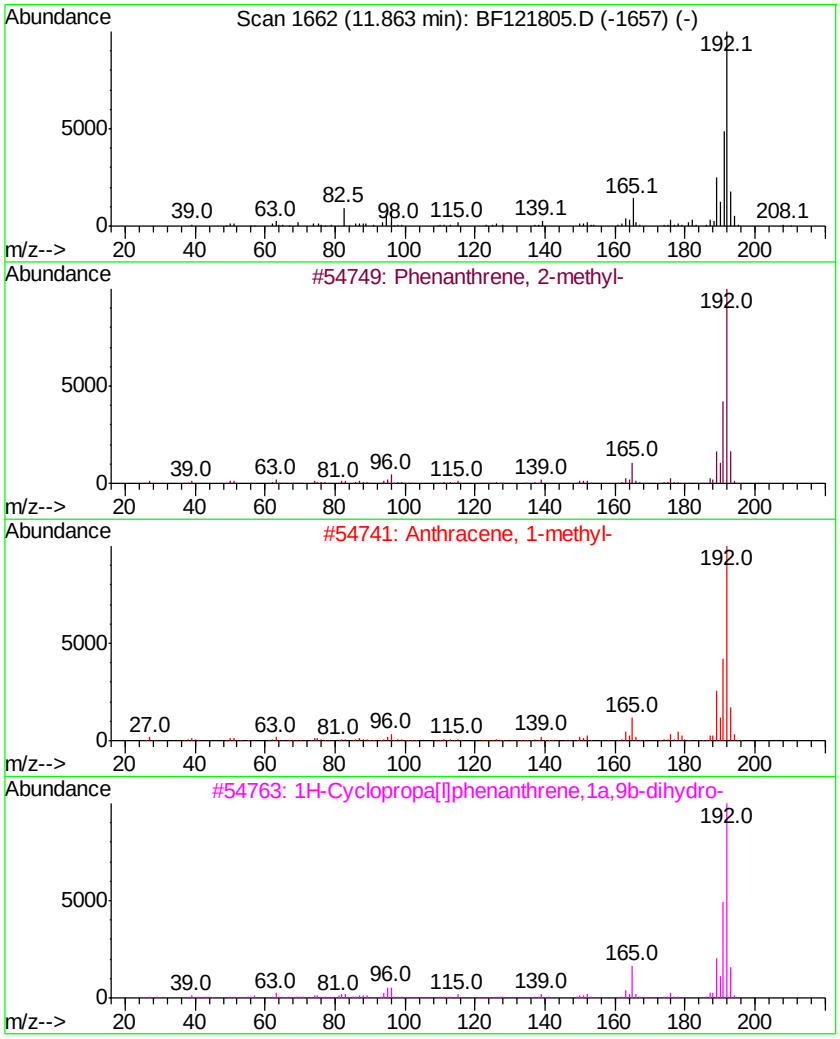
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

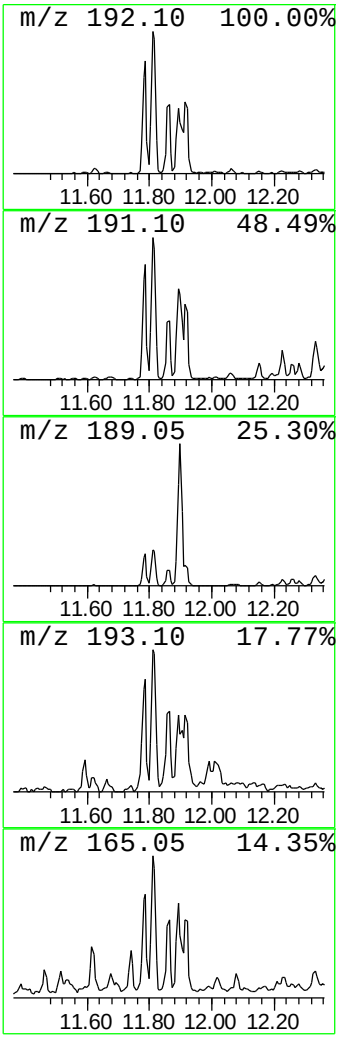
****

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	4.81 ng	189284	Phenanthrene-d10	11.29

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





Library Search Compound Report

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Acq On : 2 Oct 2020 20:52
Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

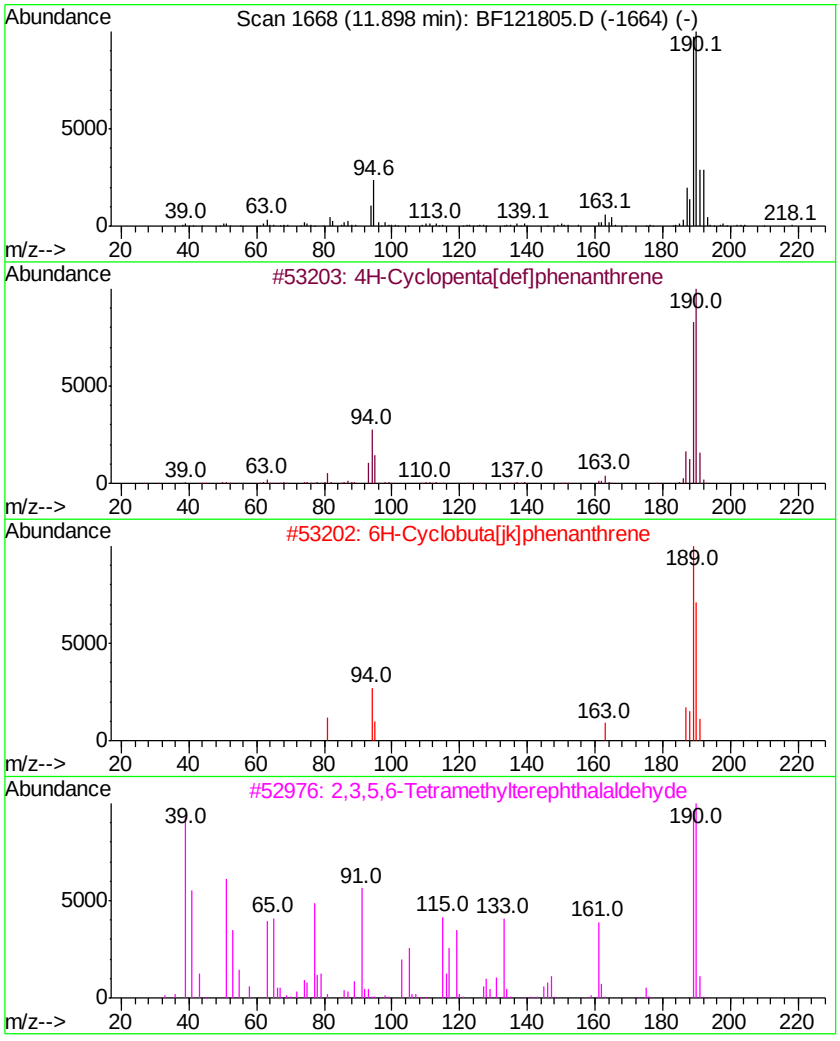
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

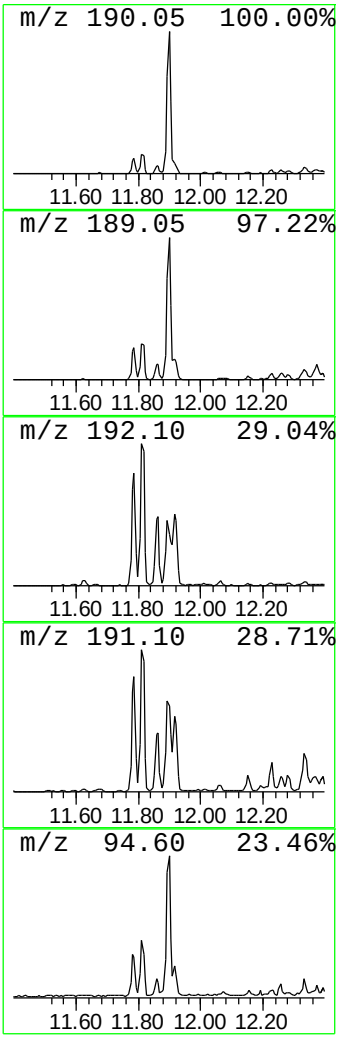
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	15.67 ng	616906	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	56
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	49
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33





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Misc :
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Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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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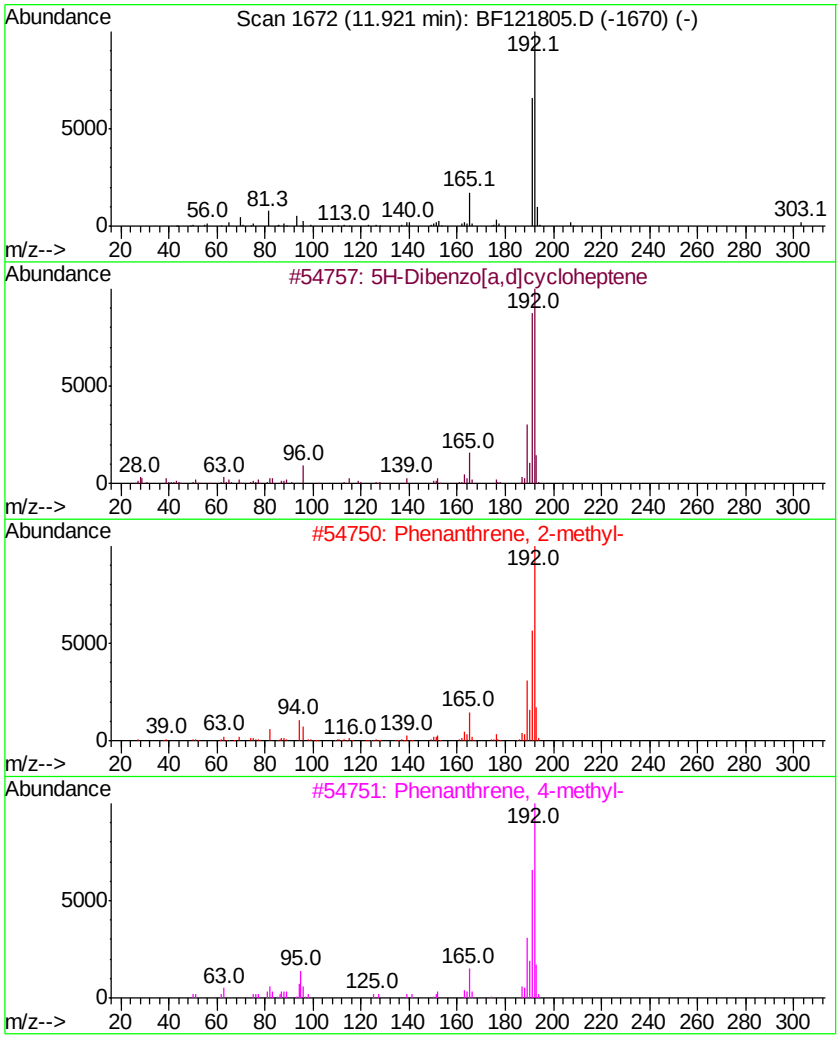
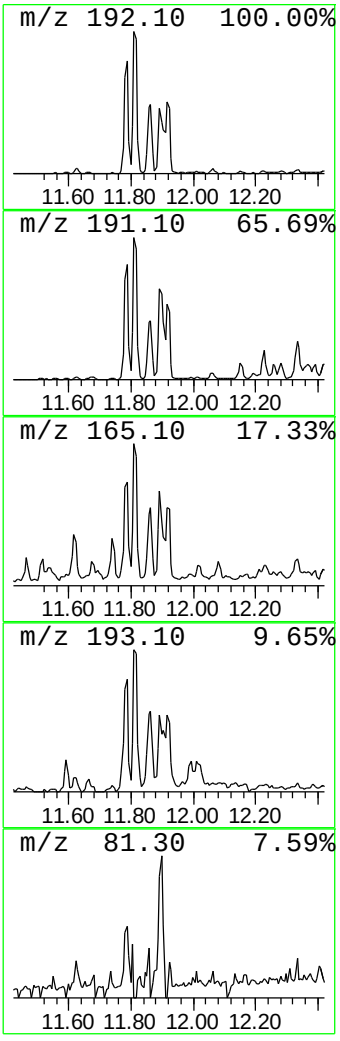
Peak Number 7 5H-Dibenzo[a,d]cycloheptene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	3.97 ng	156386	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	74
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72





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Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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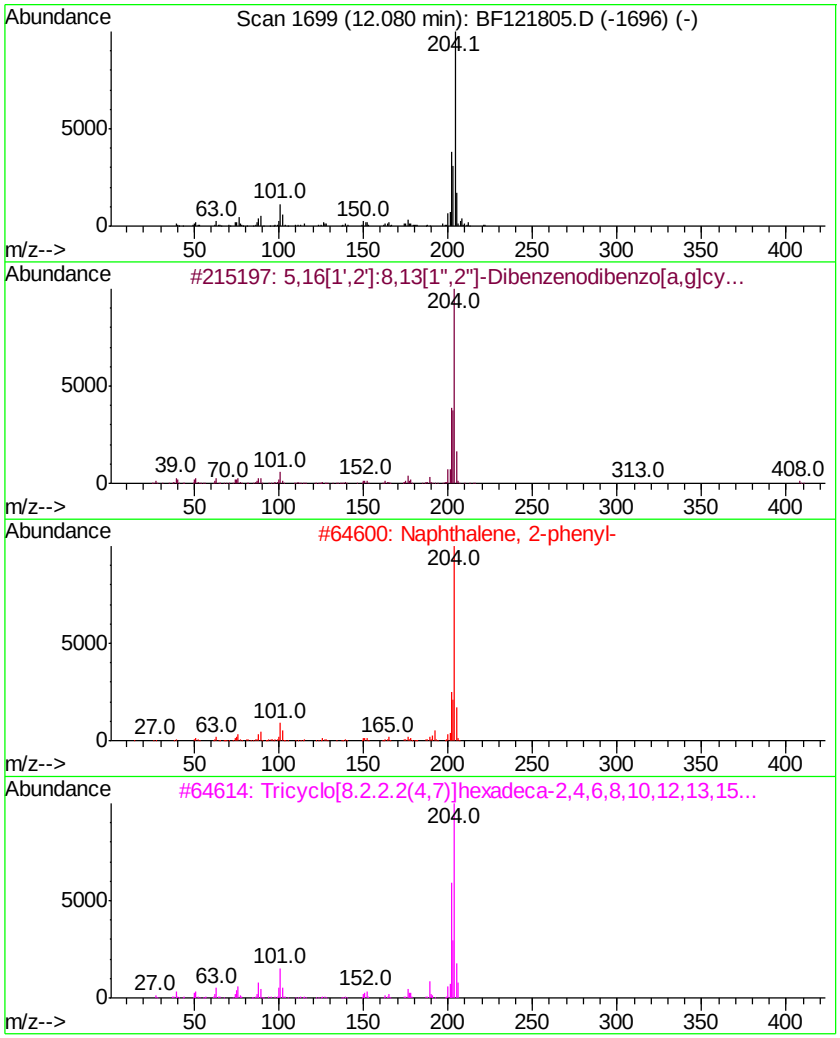
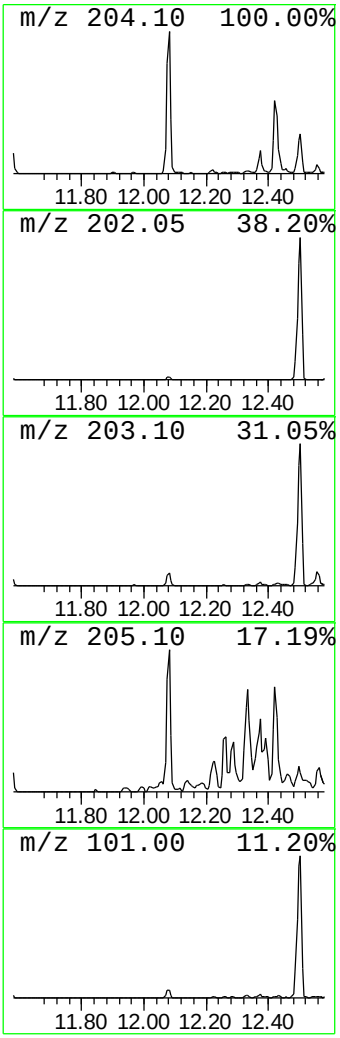
Peak Number 8 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	4.99 ng	196596	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	50





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Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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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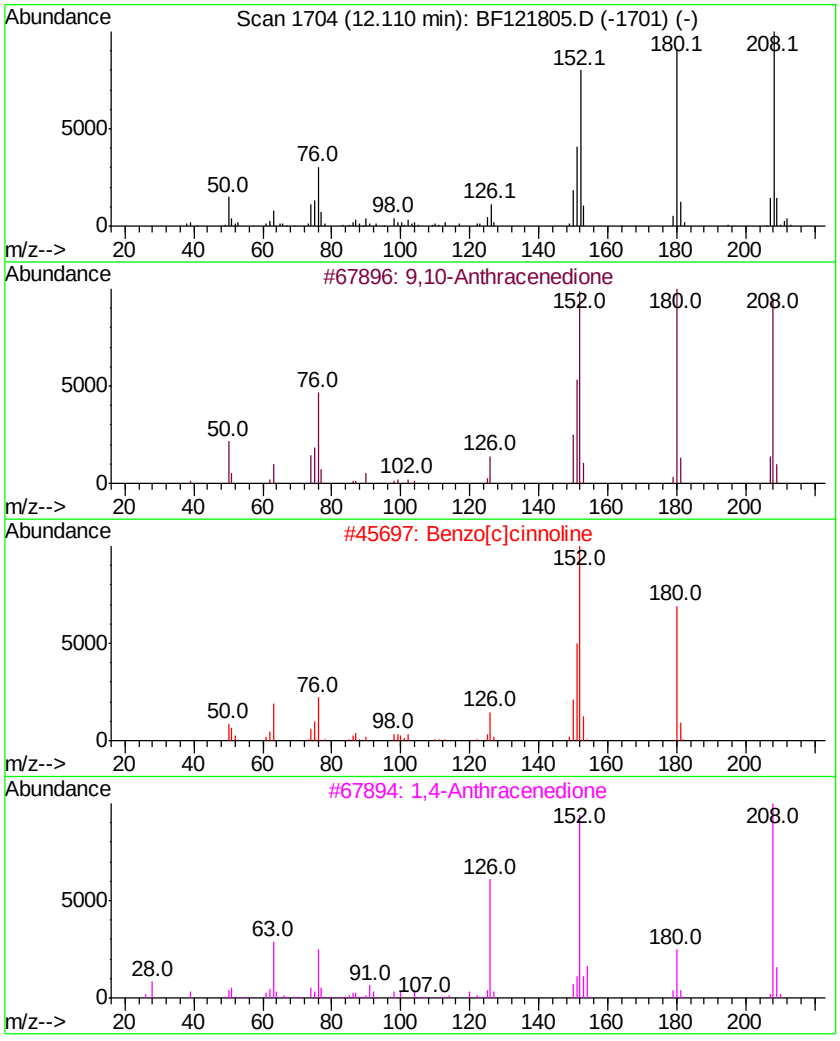
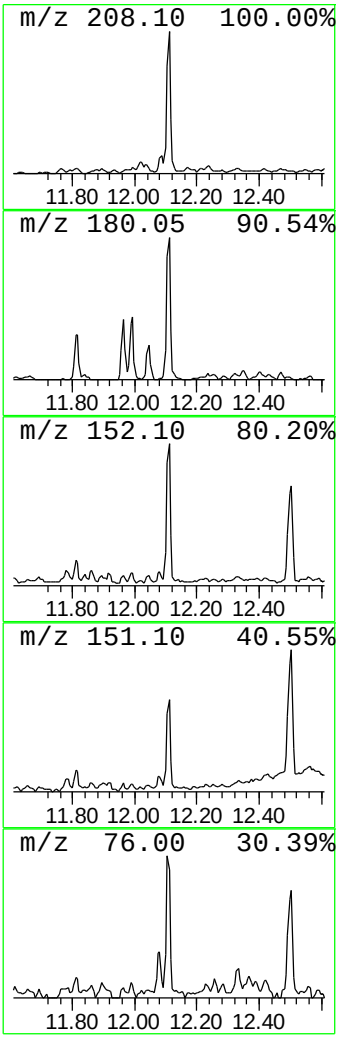
Peak Number 9 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	3.70 ng	145681	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	64
3	1,4-Anthracenedione	208	C14H8O2	000635-12-1	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	58





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Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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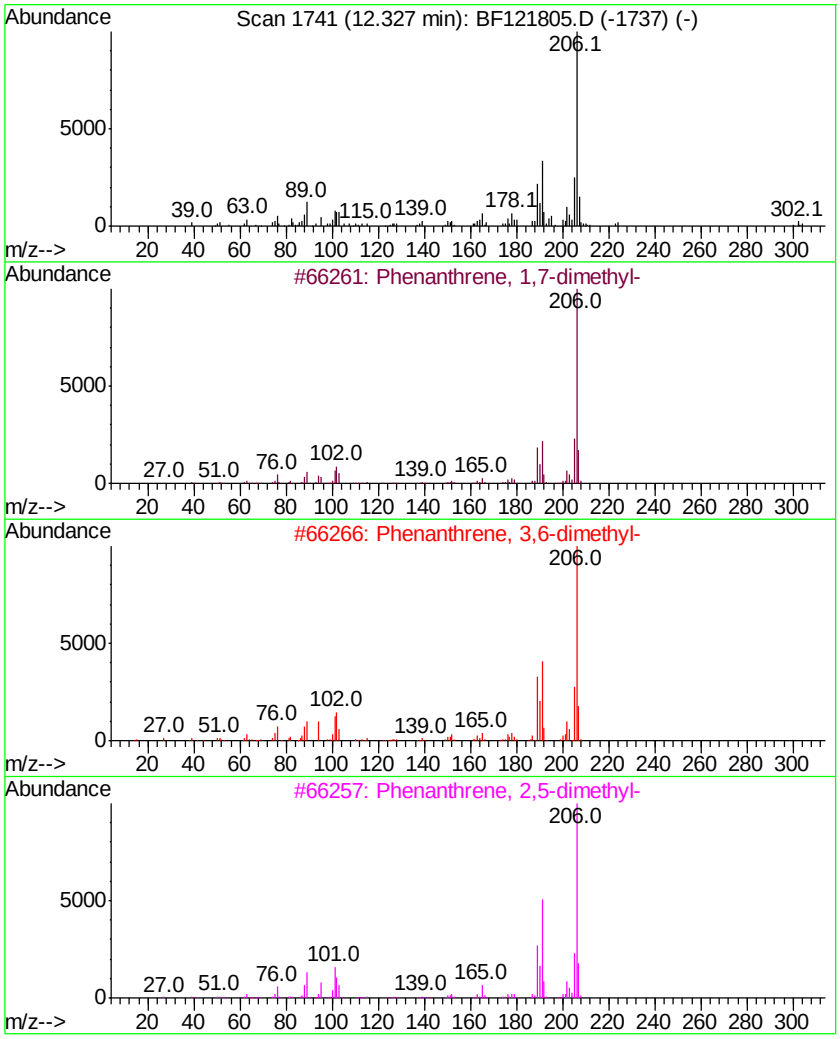
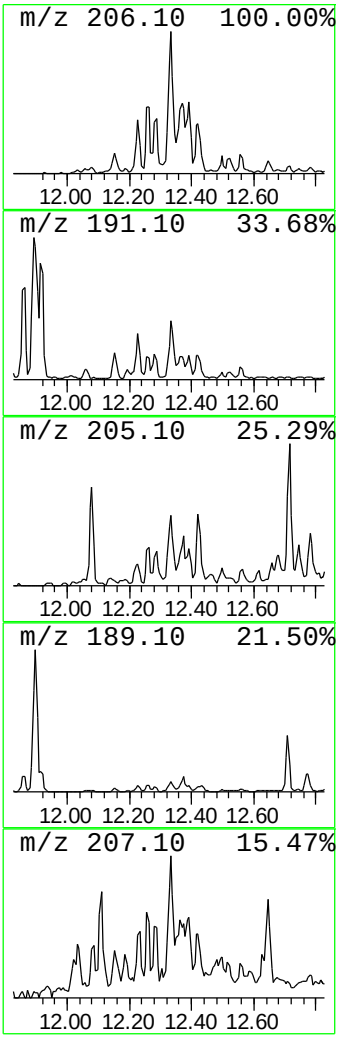
Peak Number 10 Phenanthrene, 1,7-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	5.13 ng	201867	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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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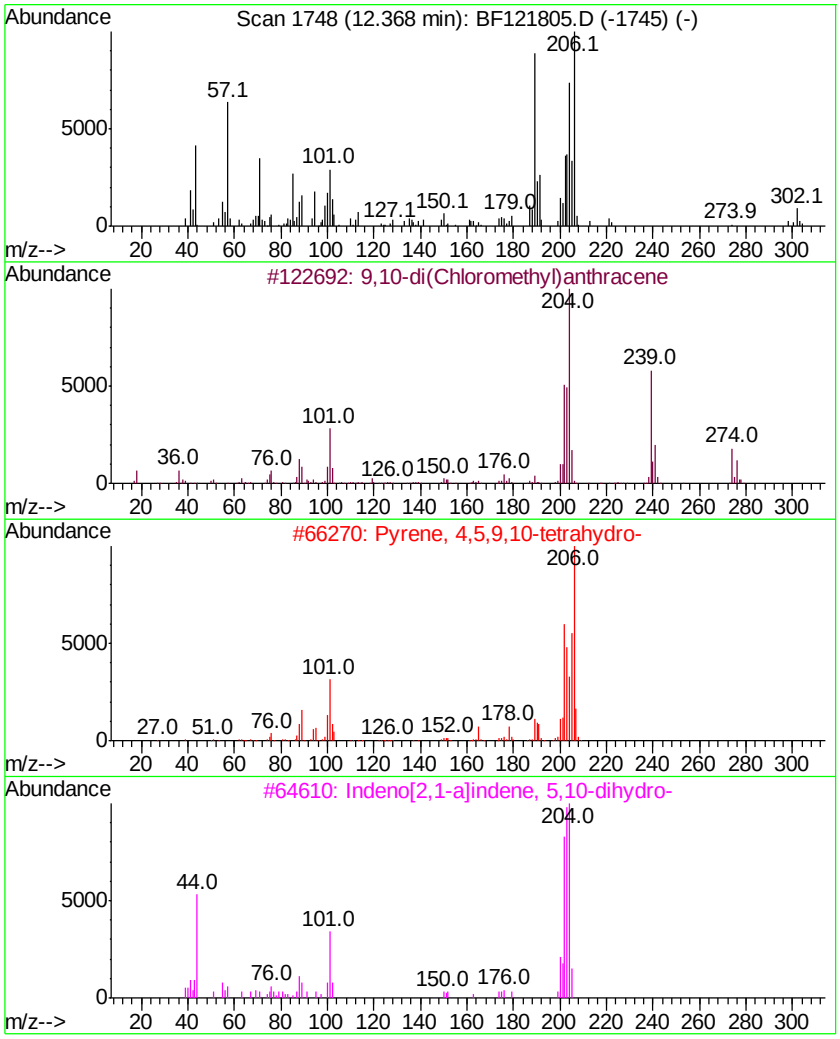
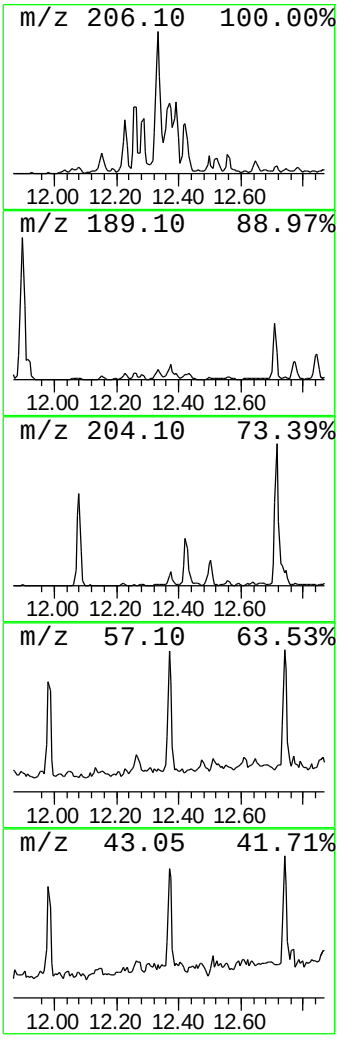
Peak Number 11 unknown12.37 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	4.56 ng	179762	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	27
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	25
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	25
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	22
5	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	18





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Sample : L4213-10
Misc :
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Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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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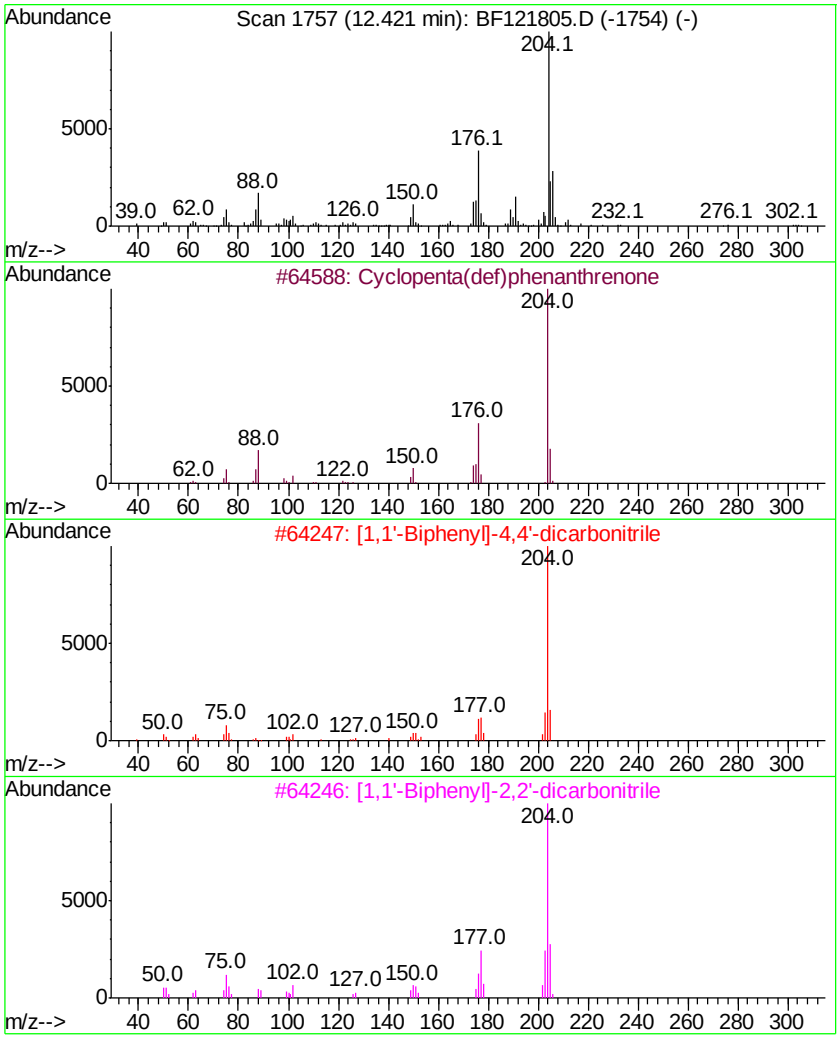
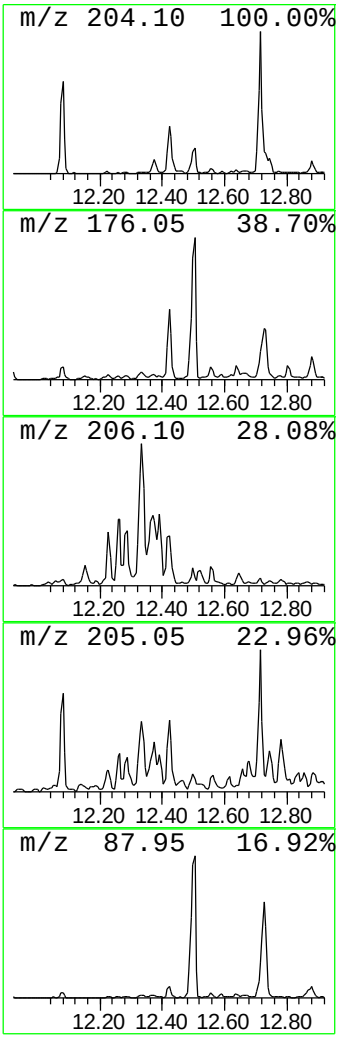
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	5.38 ng	211727	Phenanthrene-d10	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	46
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43





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Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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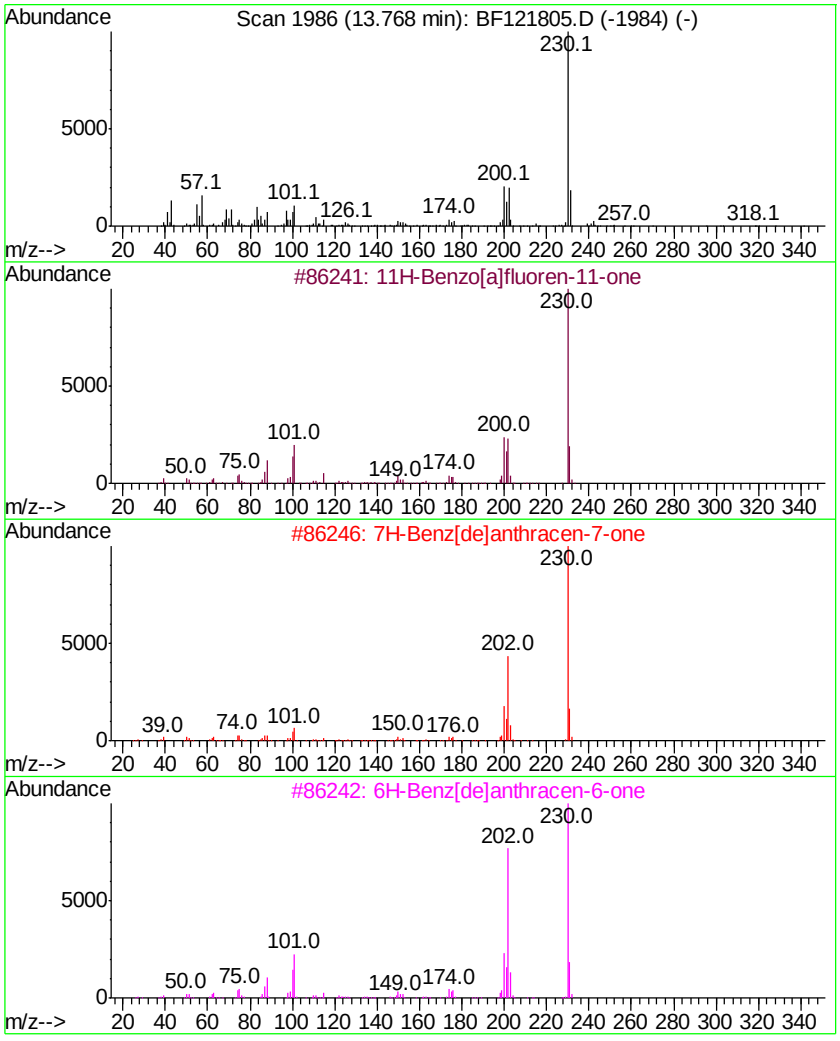
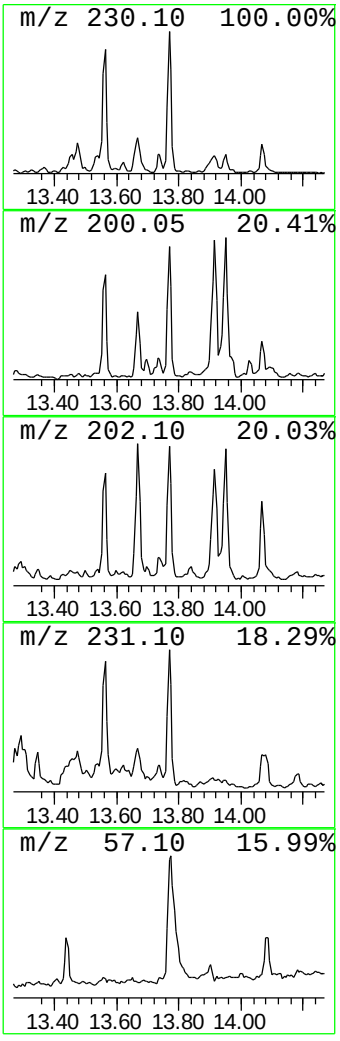
Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	3.40 ng	530601	Chrysene-d12	13.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	64
4	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	64
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	56





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Sample : L4213-10
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Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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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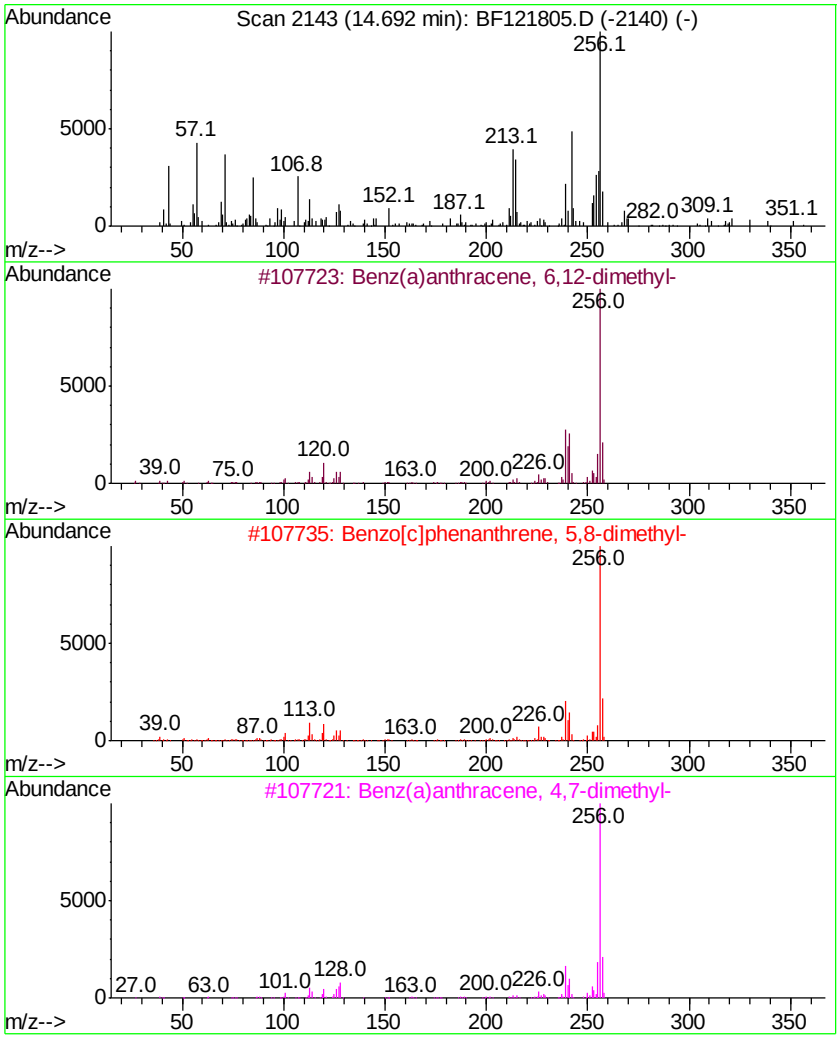
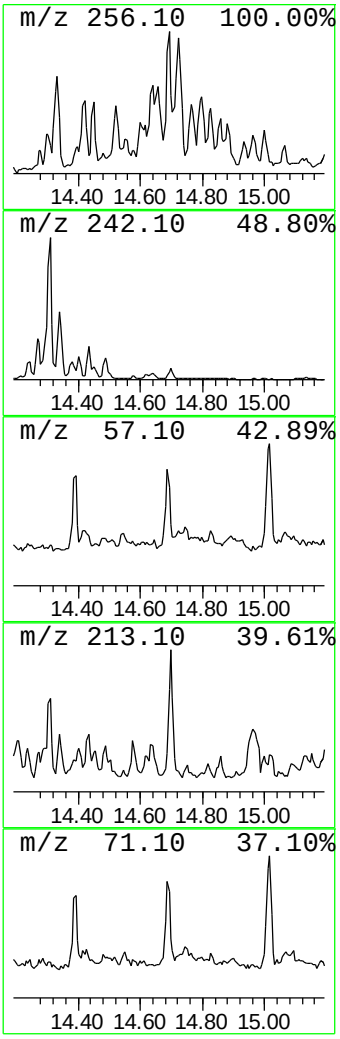
Peak Number 14 unknown14.69 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.69	3.35 ng	127258	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	47
2	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	46
3	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	46
4	Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	46
5	7,8,9,10-Tetrahydrobenzo[a]pyrene	256	C20H16	017750-93-5	43





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ClientSampleId : B-17(5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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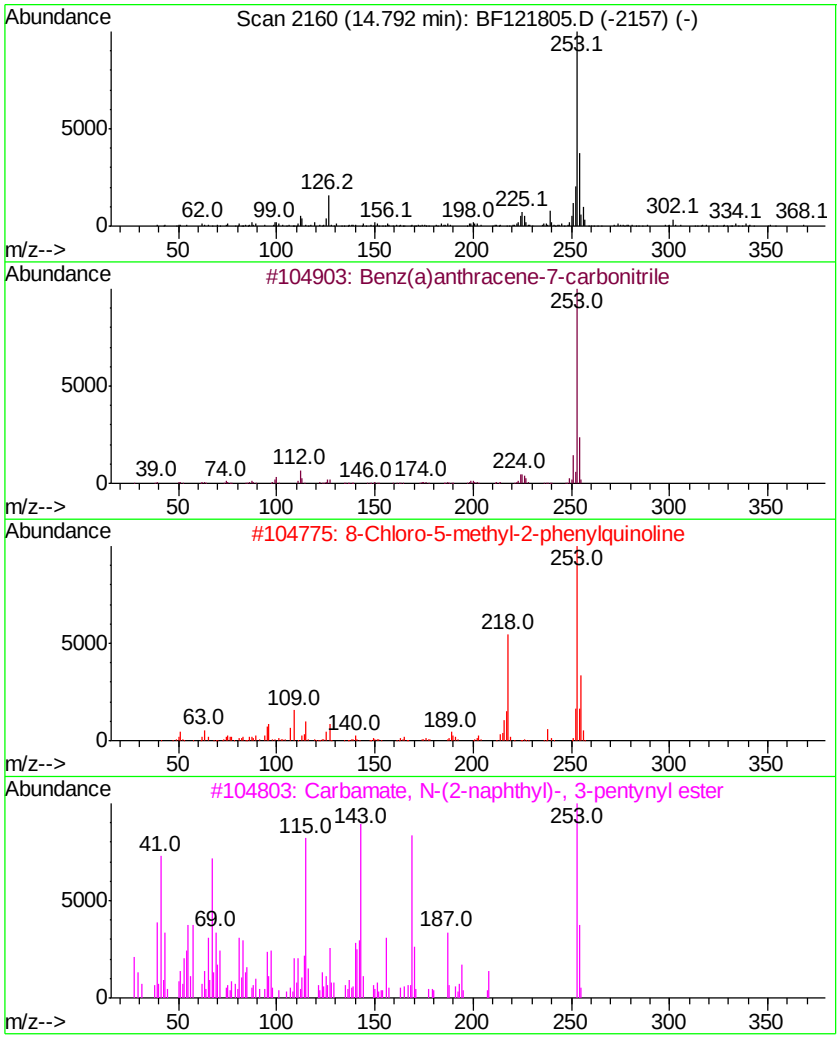
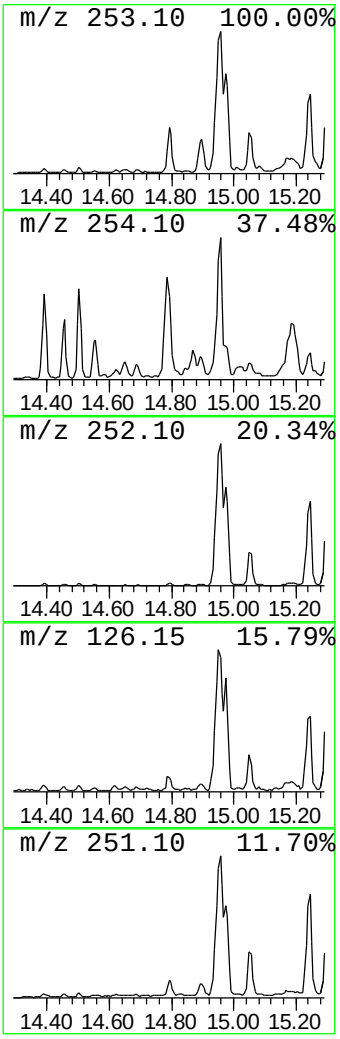
Peak Number 15 Benz(a)anthracene-7-carboni... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.79	3.60 ng	136569	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	60
2	8-Chloro-5-methyl-2-phenylquinoline	253	C16H12ClN	025413-16-5	59
3	Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	53
4	1,2-Dihydropyrido(3,2,1-kl)pheno...	253	C15H11NOS	069513-42-4	47
5	2H-1,4-Benzothiazin-2-acetic aci...	253	C11H11NO2S2	002832-88-4	43





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TIC Library : C:\DATABASE\NIST11.L
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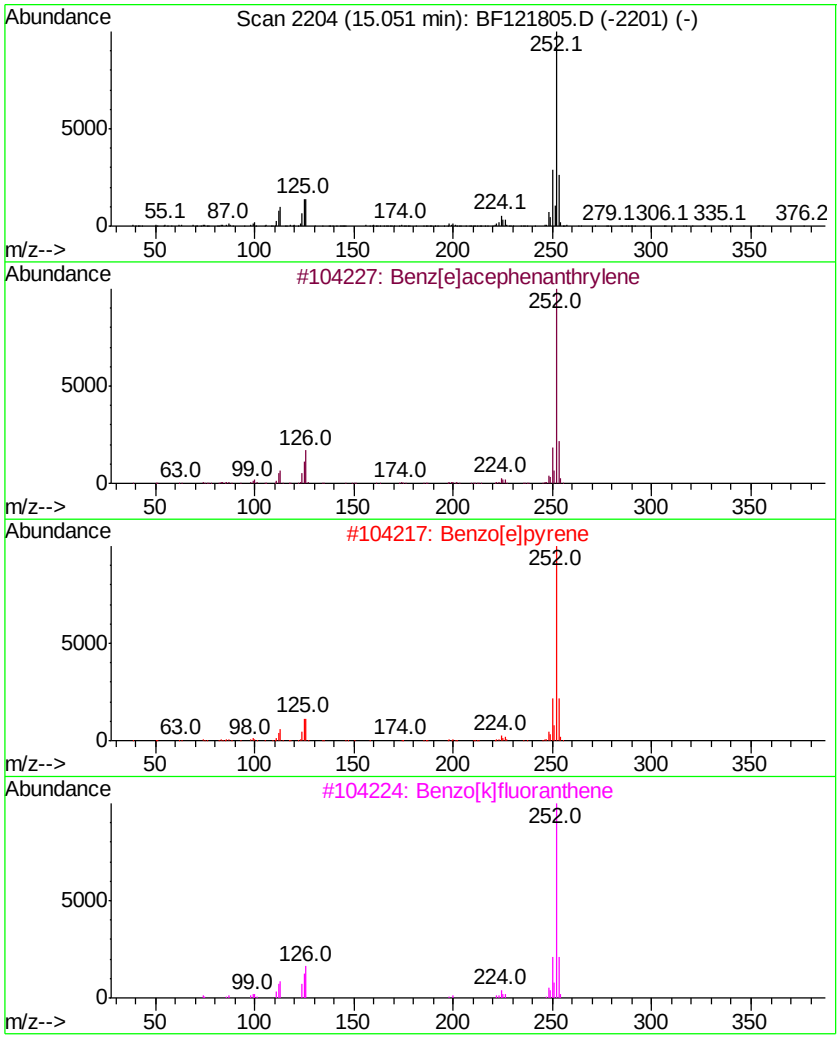
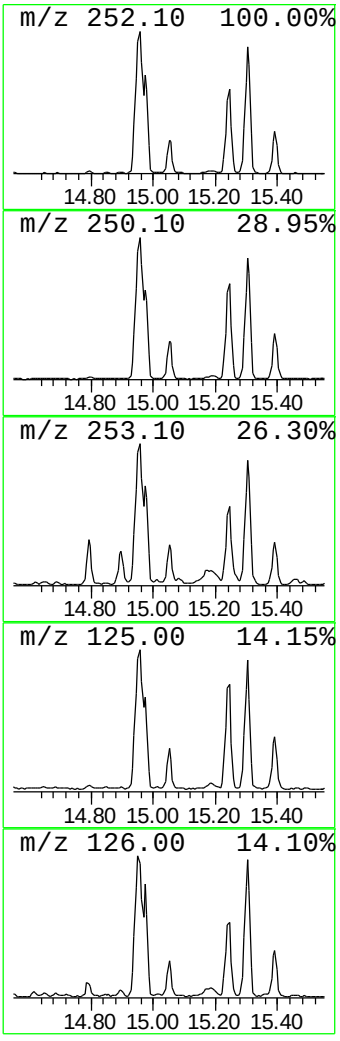
Peak Number 16 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	8.22 ng	311929	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\
Data File : BF121805.D
Acq On : 2 Oct 2020 20:52
Operator : JU/CG
Sample : L4213-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-17(5-7)

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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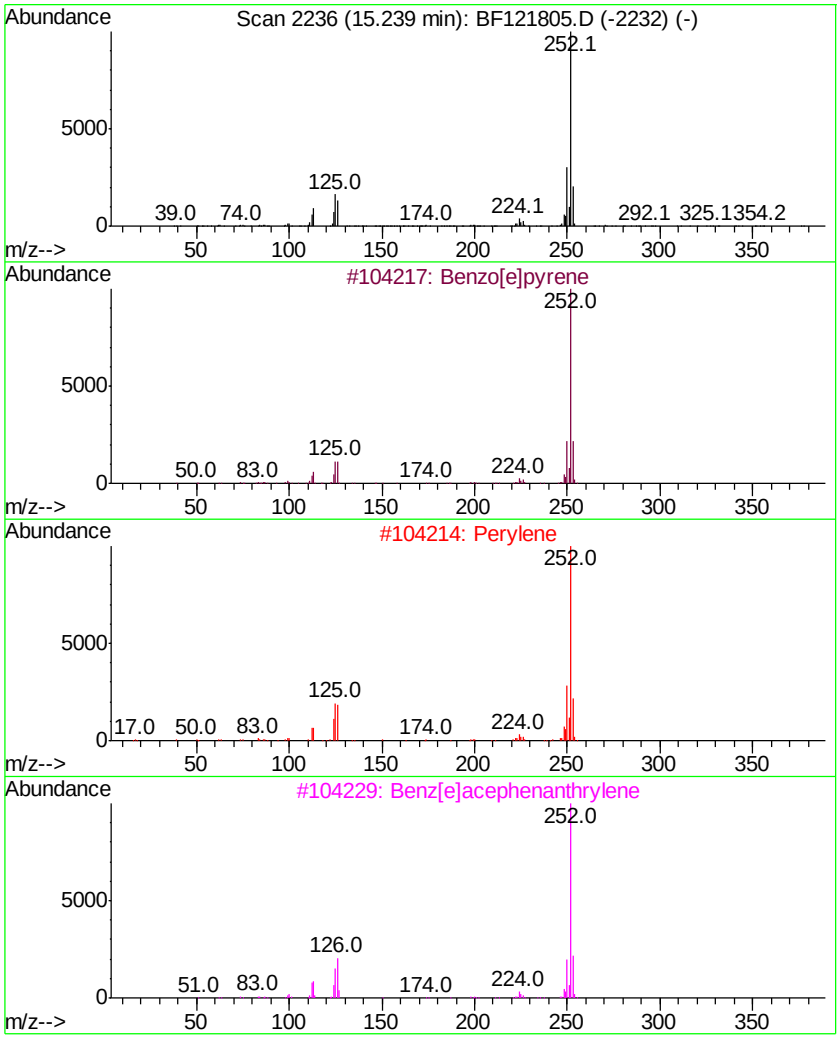
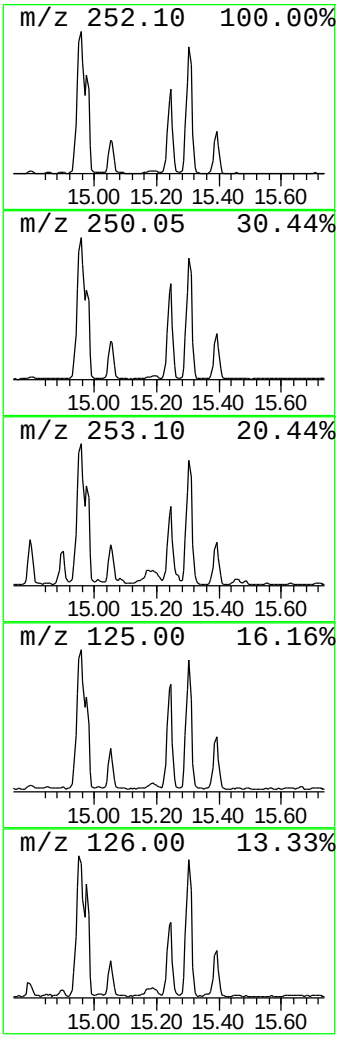
Peak Number 17 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	25.25 ng	958805	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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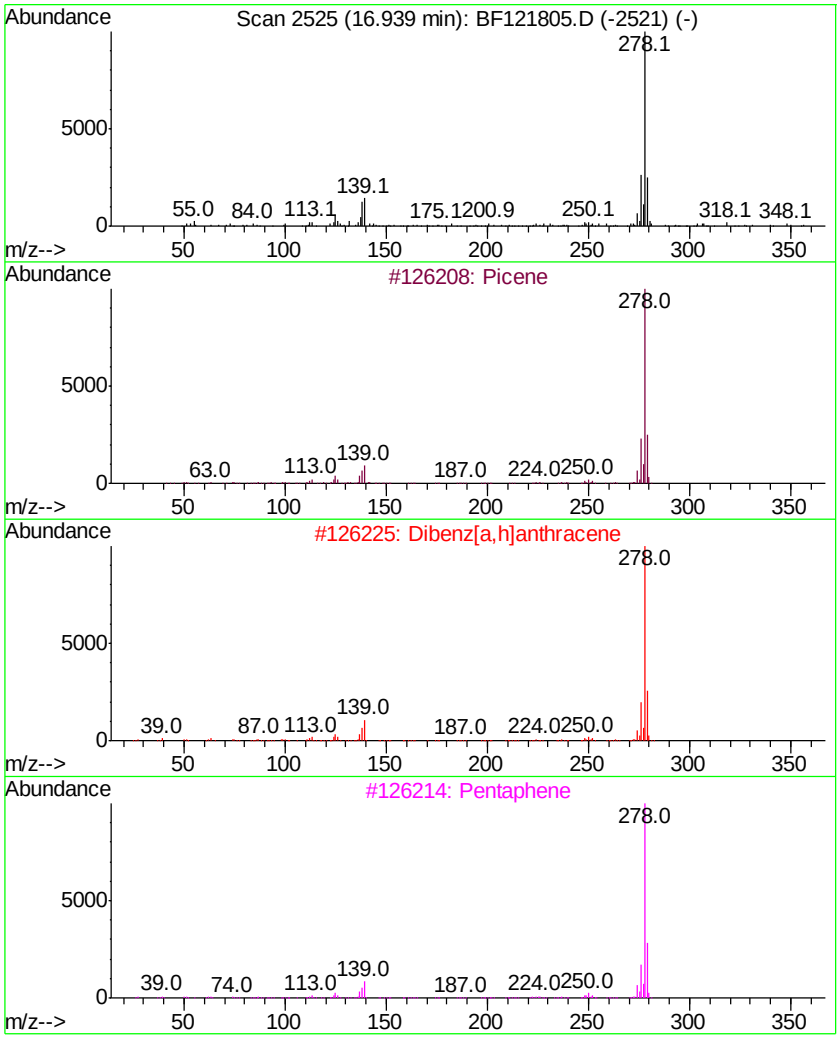
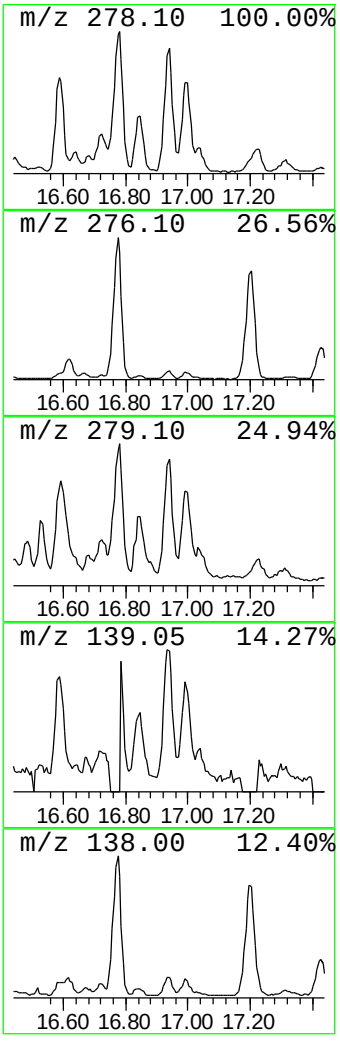
Peak Number 18 Picene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.94	3.57 ng	135468	Perylene-d12	15.36

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





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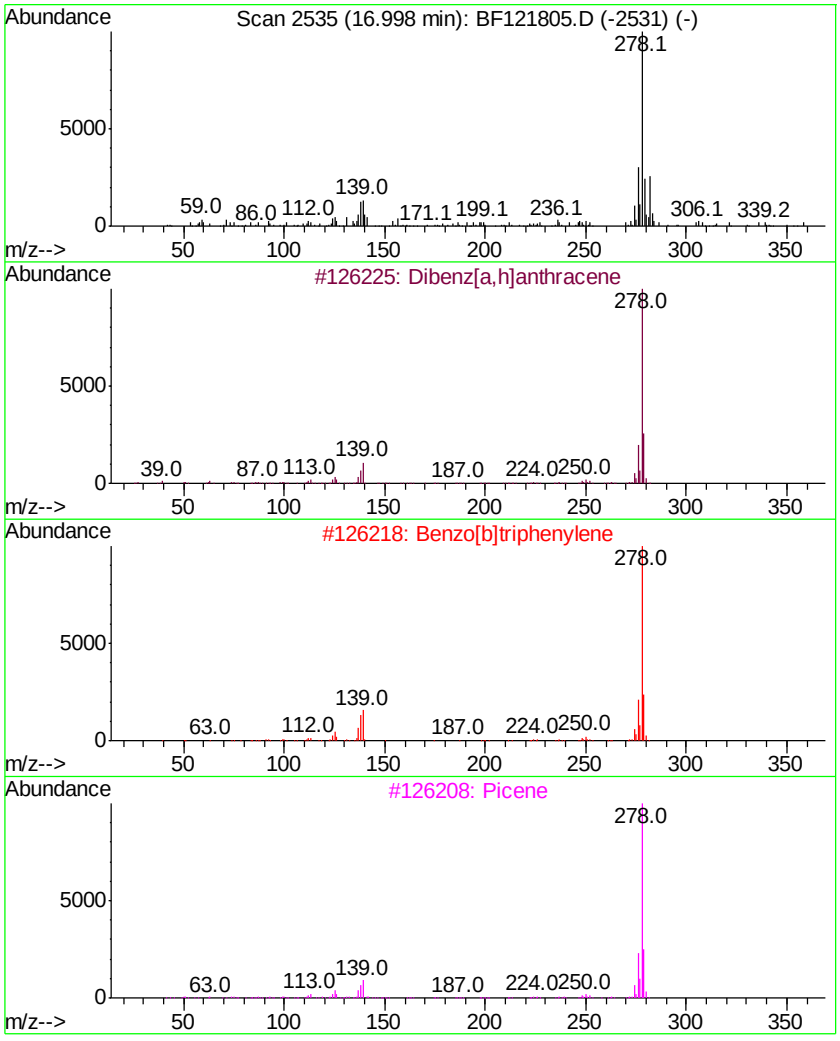
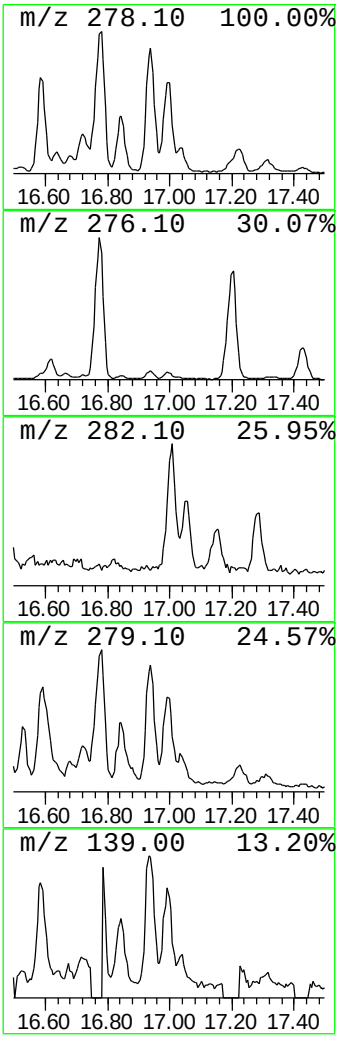
Peak Number 19 Benzo[b]triphenylene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.00	3.30 ng	125430	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3	Picene	278	C22H14	000213-46-7	91
4	Pentacene	278	C22H14	000135-48-8	86
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	86





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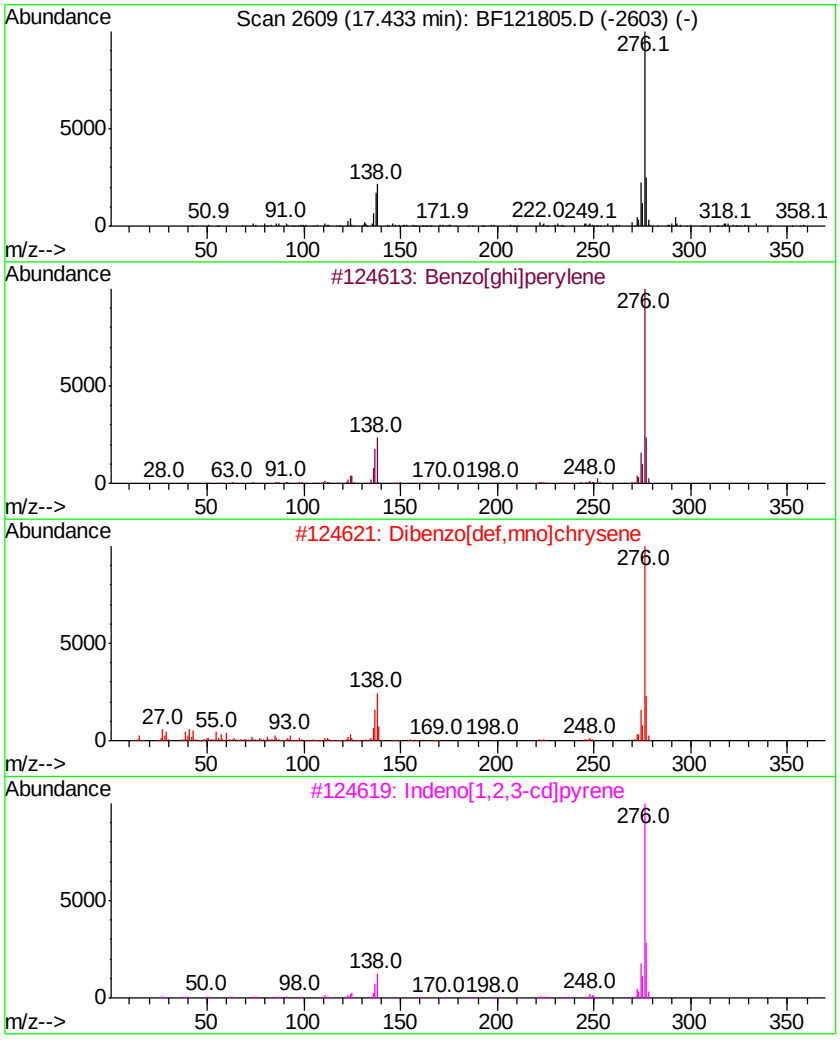
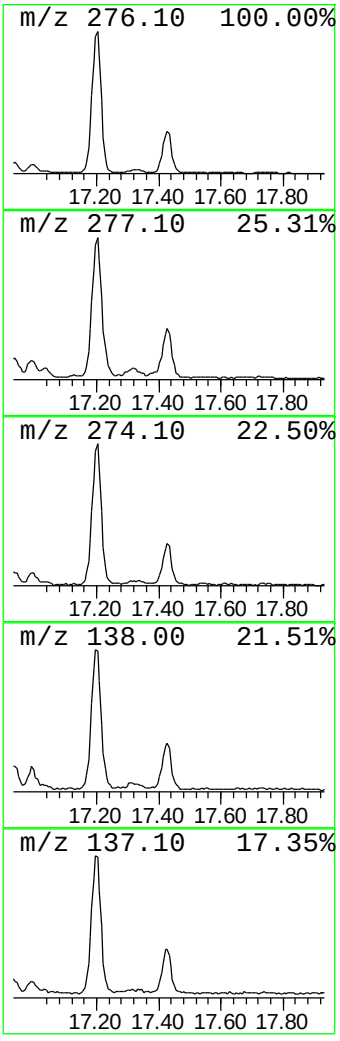
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	4.56 ng	173219	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
4	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	59
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	52





Tentatively Identified Compound (LSC) summary

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					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
9H-Fluoren-9-one	11.09	3.6	ng	141369	4	11.29	787569	20.0
Naphtho[2,1-b]thi...	11.18	4.3	ng	168444	4	11.29	787569	20.0
Phenanthrene, 2-m...	11.79	7.9	ng	311530	4	11.29	787569	20.0
Anthracene, 2-met...	11.81	10.1	ng	396648	4	11.29	787569	20.0
Anthracene, 1-met...	11.86	4.8	ng	189284	4	11.29	787569	20.0
4H-Cyclopenta[def...	11.90	15.7	ng	616906	4	11.29	787569	20.0
5H-Dibenzo[a,d]cy...	11.92	4.0	ng	156386	4	11.29	787569	20.0
5,16[1',2']:8,13[...	12.08	5.0	ng	196596	4	11.29	787569	20.0
9,10-Anthracenedione	12.11	3.7	ng	145681	4	11.29	787569	20.0
Phenanthrene, 1,7...	12.33	5.1	ng	201867	4	11.29	787569	20.0
unknown12.37	12.37	4.6	ng	179762	4	11.29	787569	20.0
Cyclopenta(def)ph...	12.42	5.4	ng	211727	4	11.29	787569	20.0
11H-Benzo[a]fluor...	13.77	3.4	ng	530601	5	13.93	3121130	20.0
unknown14.69	14.69	3.4	ng	127258	6	15.36	759347	20.0
Benz(a)anthracene...	14.79	3.6	ng	136569	6	15.36	759347	20.0
Benzo[e]pyrene	15.05	8.2	ng	311929	6	15.36	759347	20.0
Perylene	15.24	25.3	ng	958805	6	15.36	759347	20.0
Picene	16.94	3.6	ng	135468	6	15.36	759347	20.0
Benzo[b]triphenylene	17.00	3.3	ng	125430	6	15.36	759347	20.0
Dibenzo[def,mno]c...	17.43	4.6	ng	173219	6	15.36	759347	20.0