LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

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-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF133053.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.369	725	728	737	rBV	375029	367459	2.16%	0.162%
2	6.740	788	791	795	rBV	1588963	1251664	7.36%	0.550%
3	8.028	1006	1010	1012	rBV	1947239	1651010	9.71%	0.726%
4	8.045	1012	1013	1016	rVB	637096	354711	2.09%	0.156%
5	9.098	1189	1192	1195	rBV	597257	421658	2.48%	0.185%
6	9.775	1302	1307	1310	rBV	1884062	1681356	9.89%	0.739%
7	9.810	1310	1313	1316	rVB	3138853	2407881	14.16%	1.058%
8	9.981	1338	1342	1345	rVB	1077946	813614	4.78%	0.358%
9	10.322	1396	1400	1403	rBV	2178449	1741596	10.24%	0.765%
10	10.386	1410	1411	1413	rVV	522870	384821	2.26%	0.169%
11	10.563	1437	1441	1445	rBV	555224	639541	3.76%	0.281%
12	10.869	1490	1493	1496	rVV2	365101	367921	2.16%	0.162%
13	11.063	1523	1526	1531	rVB	434683	402817	2.37%	0.177%
14	11.122	1531	1536	1538	rBV2	478785	514335	3.02%	0.226%
15	11.157	1538	1542	1545	rVB	708124	612429	3.60%	0.269%
16	11.263	1556	1560	1561	rBV	1289768	1297875	7.63%	0.570%
17	11.298	1561	1566	1568	rVV	7892139	9683104	56.93%	4.256%
18	11.339	1568	1573	1576	rVV	4594161	3992278	23.47%	1.755%
19	11.492	1596	1599	1601	rVB	1359572	1174547	6.91%	0.516%
20	11.763	1639	1645	1647	rBV	1412279	1271814	7.48%	0.559%
21	11.792	1647	1650	1653	rVB	2090660	1730545	10.17%	0.761%
22	11.839	1653	1658	1661	rBV	921774	907015	5.33%	0.399%
23	11.875	1661	1664	1666	rVV	3209942	3083434	18.13%	1.355%
24	11.898	1666	1668	1671	rVB	932916	717143	4.22%	0.315%
25	12.057	1692	1695	1697	rBV	1154091	984625	5.79%	0.433%
26	12.080	1697	1699	1702	rVB	825703	673662	3.96%	0.296%
27	12.204	1716	1720	1723	rBV2	382373	367253	2.16%	0.161%
28	12.310	1734	1738	1741	rBV	538373	649054	3.82%	0.285%
29	12.351	1741	1745	1747	rVV	400654	419658	2.47%	0.184%
30	12.404	1751	1754	1758	rBV2	628972	712576	4.19%	0.313%
31	12.498	1761	1770	1772	rBV	9007128	15897044	93.47%	6.987%
32	12.533	1772	1776	1780	rBV2	495770	601348	3.54%	0.264%
33	12.622	1786	1791	1794	rBV2	1011036	1065404	6.26%	0.468%
34	12.716	1801	1807	1808	rBV2	8667888	13680481	80.43%	6.013%
35	12.751	1811	1813	1820	rVB	1072019	1056762	6.21%	0.464%
36	12.822	1821	1825	1828	rVV	1400043	1526579	8.98%	0.671%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
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Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

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-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	12.863	1828	1832	1835	rVB	1716697	1991574	11.71%	0.875%
38	12.927	1836	1843	1845	rBV2	1442647	2384766	14.02%	1.048%
39	12.951	1845	1847	1850	rVB	893181	649515	3.82%	0.285%
40	13.010	1850	1857	1858	rBV3	1194609	1723929	10.14%	0.758%
41	13.039	1858	1862	1864	rVB	4115324	4320823	25.40%	1.899%
42	13.063	1864	1866	1869	rBV3	395532	382109	2.25%	0.168%
43	13.104	1869	1873	1875	rVV	4169511	4069610	23.93%	1.789%
44	13.139	1875	1879	1881	rVV2	2479199	2895527	17.02%	1.273%
45	13.163	1881	1883	1886	rVV	2127286	1857876	10.92%	0.817%
46	13.192	1886	1888	1891	rVV	820405	751979	4.42%	0.331%
47	13.227	1891	1894	1897	rVV	1244362	1229772	7.23%	0.541%
48	13.257	1897	1899	1903	rVV2	1439002	1592163	9.36%	0.700%
49	13.333	1909	1912	1917	rVB4	332242	455335	2.68%	0.200%
50	13.416	1922	1926	1927	rBV3	433644	478669	2.81%	0.210%
51	13.433	1927	1929	1931	rVV	465602	556311	3.27%	0.245%
52	13.457	1931	1933	1936	rVV	1236064	1109492	6.52%	0.488%
53	13.516	1940	1943	1945	rBV2	807613	1015375	5.97%	0.446%
54	13.539	1945	1947	1952	rVB	1211512	1297017	7.63%	0.570%
55	13.651	1961	1966	1968	rBV	2708197	2813316	16.54%	1.236%
56	13.680	1968	1971	1973	rVV	2446088	2397789	14.10%	1.054%
57	13.704	1973	1975	1981	rVV4	2121181	3528902	20.75%	1.551%
58	13.751	1981	1983	1987	rVB	1265911	1247321	7.33%	0.548%
59	13.816	1989	1994	1998	rBV	892535	1139715	6.70%	0.501%
60	13.910	2001	2010	2013	rBV3	7939747	17008466	100.00%	7.475%
61	13.951	2013	2017	2022	rVB	8175473	11170900	65.68%	4.910%
62	14.021	2025	2029	2031	rVV	3245931	3237975	19.04%	1.423%
63	14.051	2031	2034	2035	rVV2	584466	736897	4.33%	0.324%
64	14.098	2038	2042	2044	rVV	1967924	2247492	13.21%	0.988%
65	14.127	2044	2047	2051	rVV2	1696094	2510753	14.76%	1.104%
66	14.163	2051	2053	2055	rVB2	433432	369864	2.17%	0.163%
67	14.221	2060	2063	2065	rBV3	572302	671243	3.95%	0.295%
68	14.251	2065	2068	2070	rVV3	823961	895116	5.26%	0.393%
69	14.292	2070	2075	2078	rVV	2559460	3011096	17.70%	1.323%
70	14.327	2078	2081	2084	rVB2	1382602	1322594	7.78%	0.581%
71	14.386	2084	2091	2093	rBV3	1500071	2051354	12.06%	0.902%
72	14.416	2093	2096	2098	rVV	1740604	1867227	10.98%	0.821%
73	14.439	2098	2100	2103	rVV2	2223820	1950582	11.47%	0.857%
74	14.486	2103	2108	2114	rVB4	1006439	1872513	11.01%	0.823%
75	14.598	2122	2127	2129	rBV2	1104025	1321283	7.77%	0.581%
76	14.621	2129	2131	2136	rVB2	462399	668224	3.93%	0.294%

LSC Area Percent Report

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Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

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-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	14.668	2136	2139	2142	rBV2	419365	549312	3.23%	0.241%
78	14.774	2152	2157	2160	rBV	900918	1191794	7.01%	0.524%
79	14.951	2178	2187	2189	rBV	6535574	14063138	82.68%	6.181%
80	15.004	2193	2196	2198	rVV2	526096	589402	3.47%	0.259%
81	15.039	2198	2202	2205	rVB	1702195	1723629	10.13%	0.758%
82	15.115	2211	2215	2217	rBV2	580767	880380	5.18%	0.387%
83	15.233	2228	2235	2240	rVB	4202034	6671482	39.22%	2.932%
84	15.298	2240	2246	2249	rVB	5624128	8368828	49.20%	3.678%
85	15.339	2249	2253	2255	rBV	903726	1098905	6.46%	0.483%
86	15.374	2255	2259	2264	rVV2	2439035	3326624	19.56%	1.462%
87	15.433	2264	2269	2275	rVB3	309848	578275	3.40%	0.254%
88	15.510	2277	2282	2283	rBV3	445321	642750	3.78%	0.282%
89	15.551	2284	2289	2294	rVB2	804442	1936536	11.39%	0.851%
90	15.645	2302	2305	2308	rVB	314410	383520	2.25%	0.169%
91	15.680	2308	2311	2317	rVB4	445579	670266	3.94%	0.295%
92	15.751	2319	2323	2326	rBV3	268993	368790	2.17%	0.162%
93	15.868	2340	2343	2352	rVB	566117	829871	4.88%	0.365%
94	16.545	2450	2458	2462	rBV2	556429	1378527	8.10%	0.606%
95	16.745	2479	2492	2497	rVB2	2557042	5656621	33.26%	2.486%
96	16.798	2497	2501	2509	rVB	290428	515120	3.03%	0.226%
97	16.892	2510	2517	2522	rBV2	665226	1487266	8.74%	0.654%
98	16.951	2522	2527	2531	rBV2	486486	824943	4.85%	0.363%
99	17.162	2553	2563	2575	rVB	1771347	4340508	25.52%	1.908%
100	17.368	2592	2598	2612	rVB2	587145	1539952	9.05%	0.677%

Sum of corrected areas: 227523917

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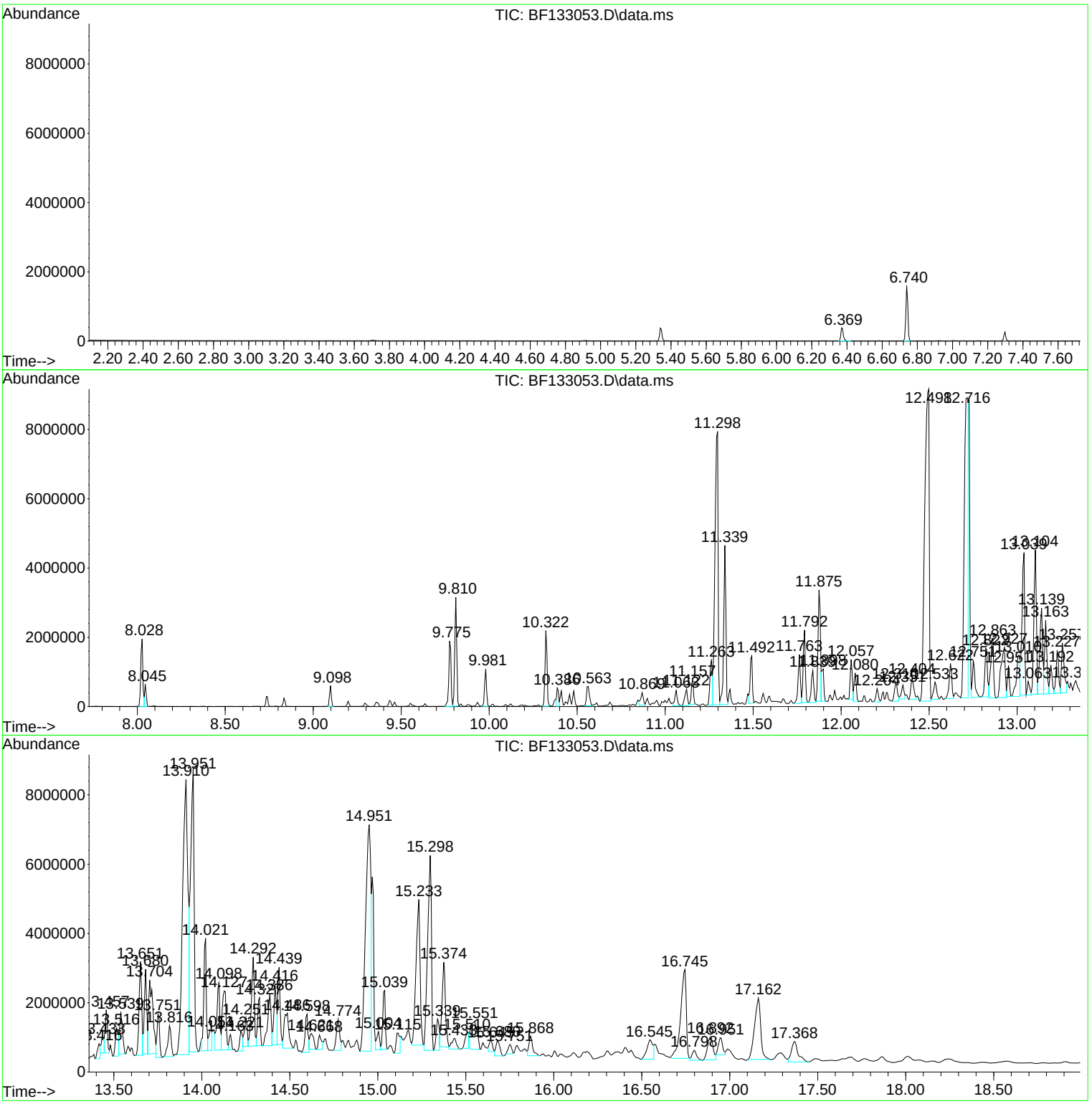
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

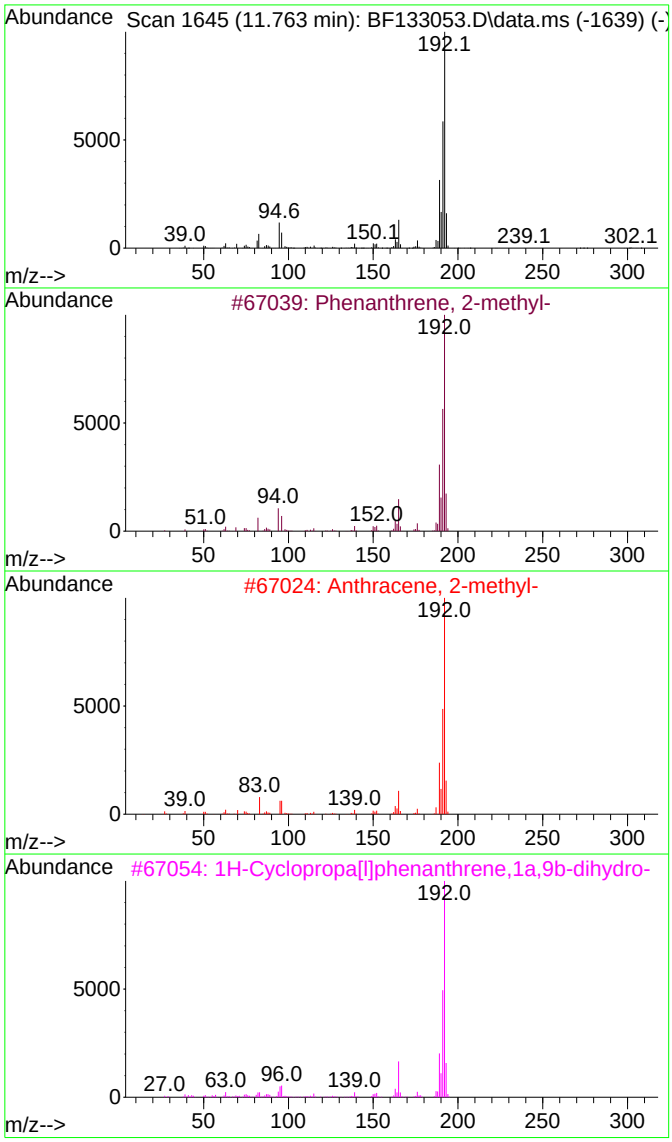
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

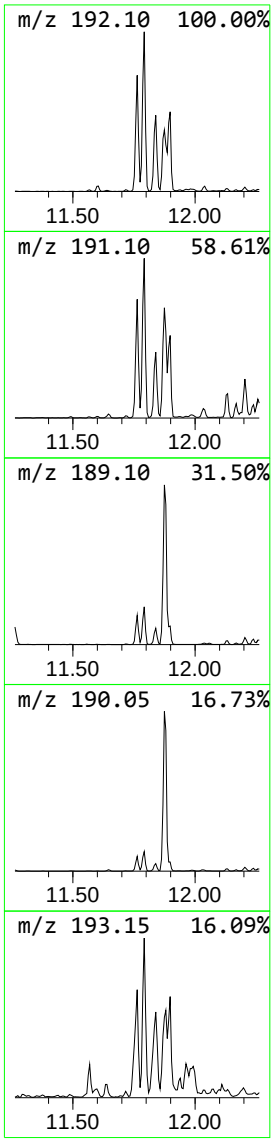
****

Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.763	19.60 ng	1271810	Phenanthrene-d10	11.263

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

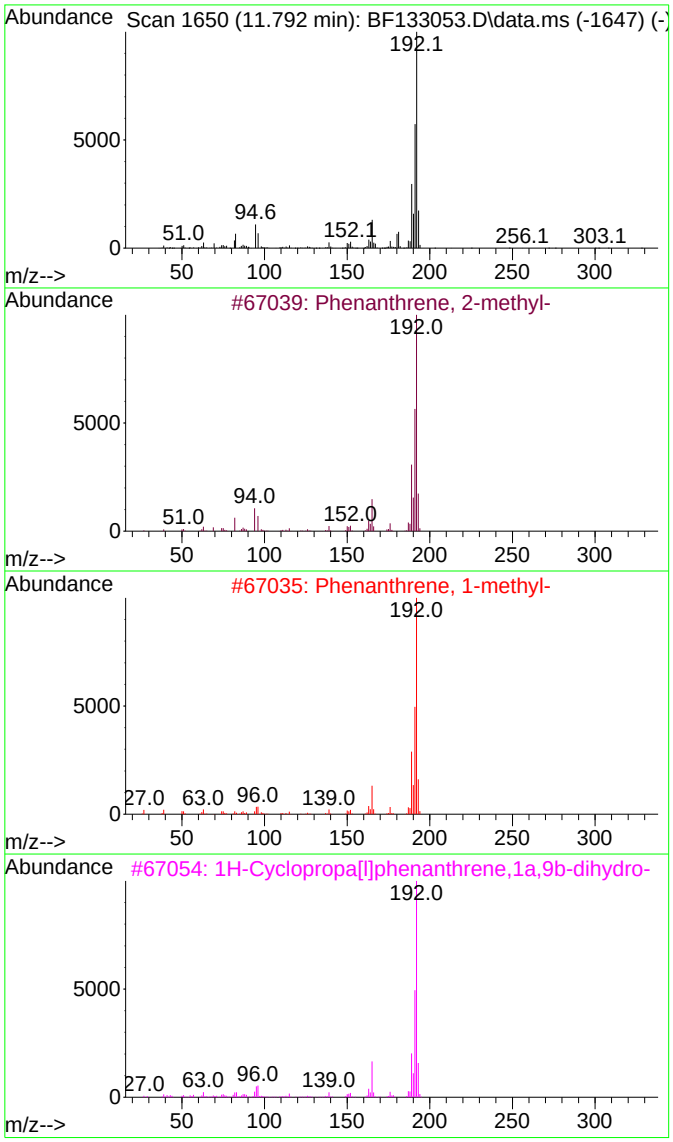
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

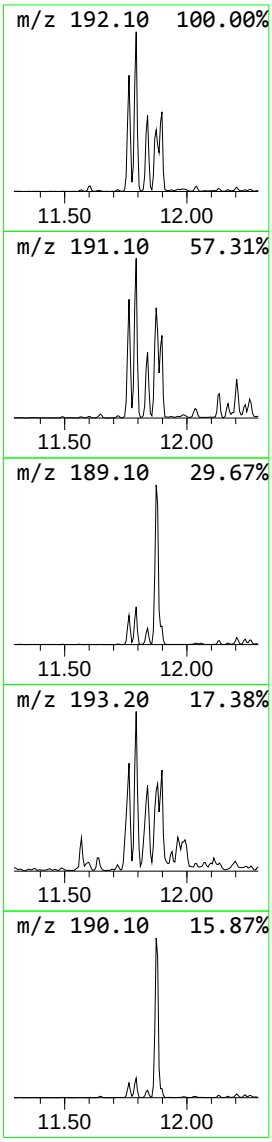
****

Peak Number 2 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.792	26.67 ng	1730550	Phenanthrene-d10	11.263

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	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

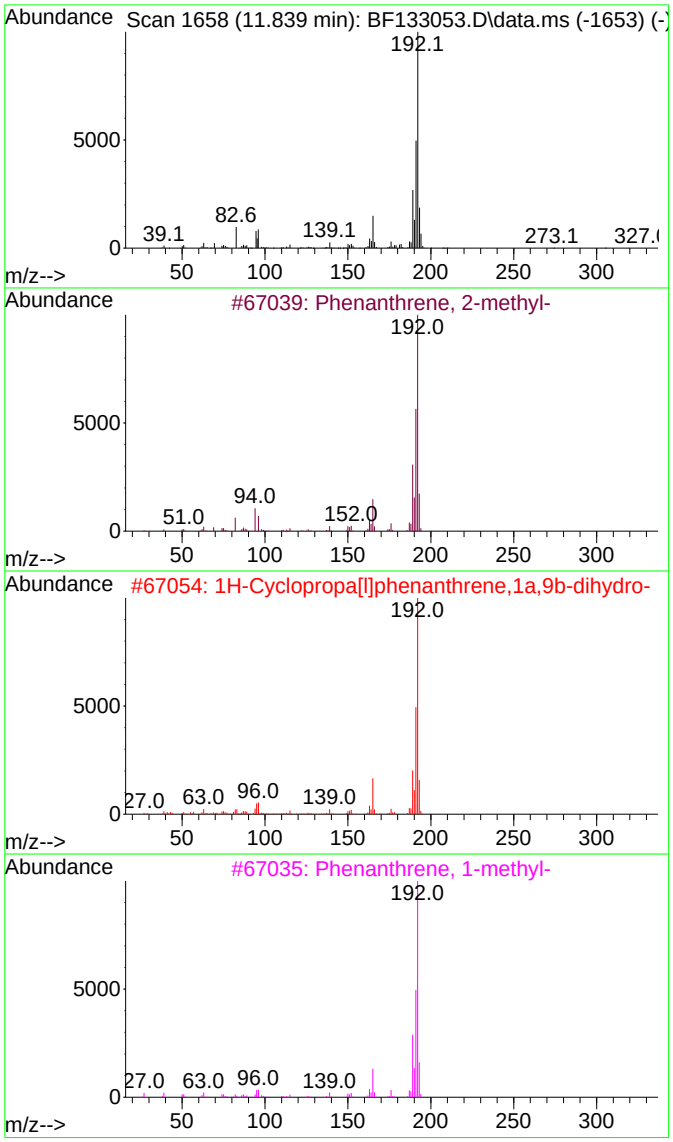
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

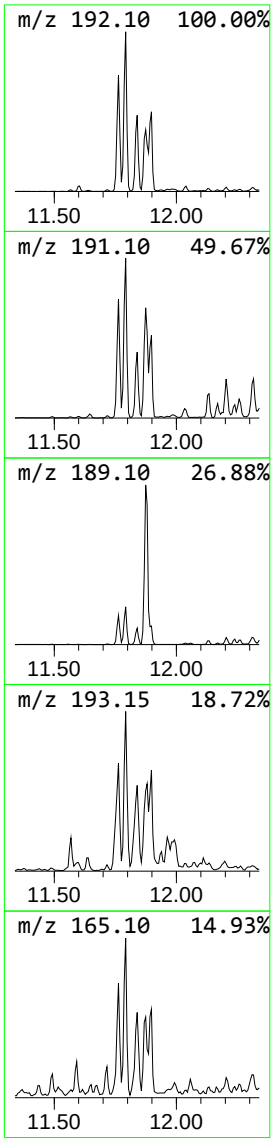
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.839	13.98 ng	907015	Phenanthrene-d10	11.263

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

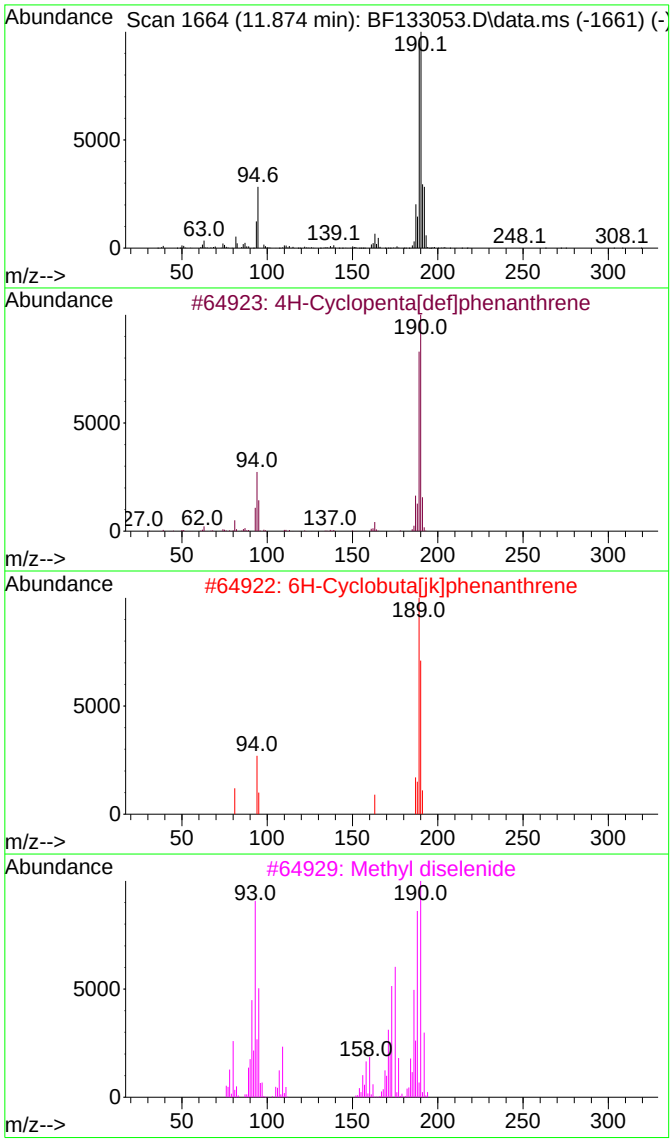
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

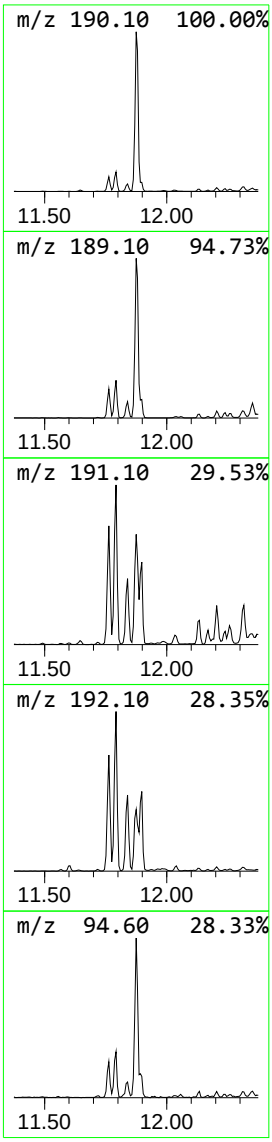
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.874	47.52 ng	3083430	Phenanthrene-d10	11.263

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	59
3	Methyl diselenide	190	C2H6Se2	007101-31-7	45
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38
5	Carbonic acid, 2-formyl-4,6-dich...	276	C11H10Cl2O4	1000331-39-3	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

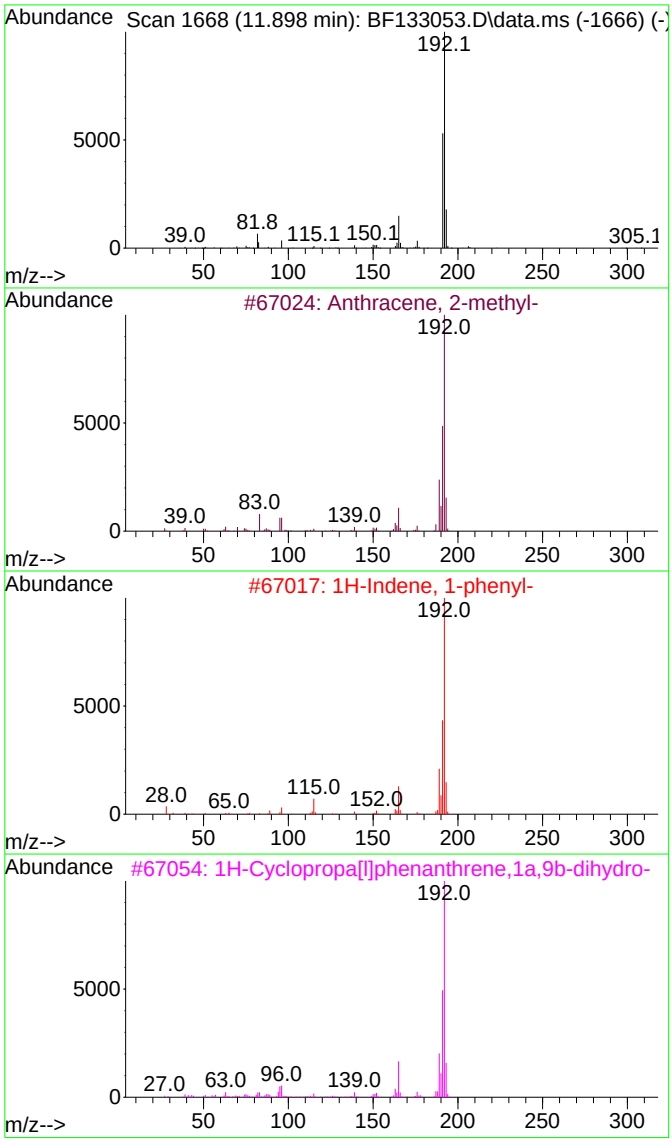
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

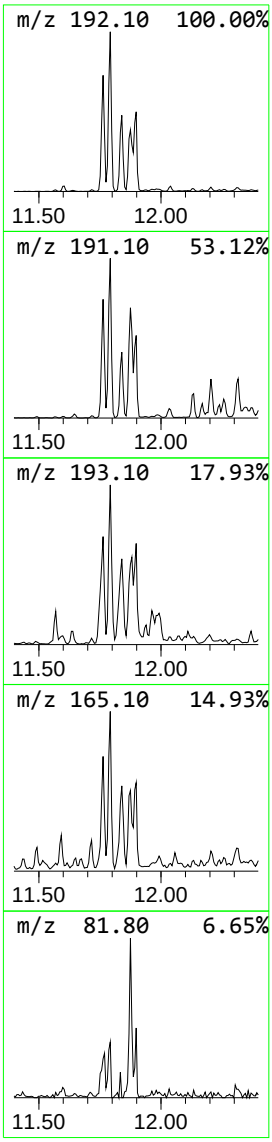
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.898	11.05 ng	717143	Phenanthrene-d10	11.263

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
2	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	90
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87





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Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId :
SB-25-10-12-20230411

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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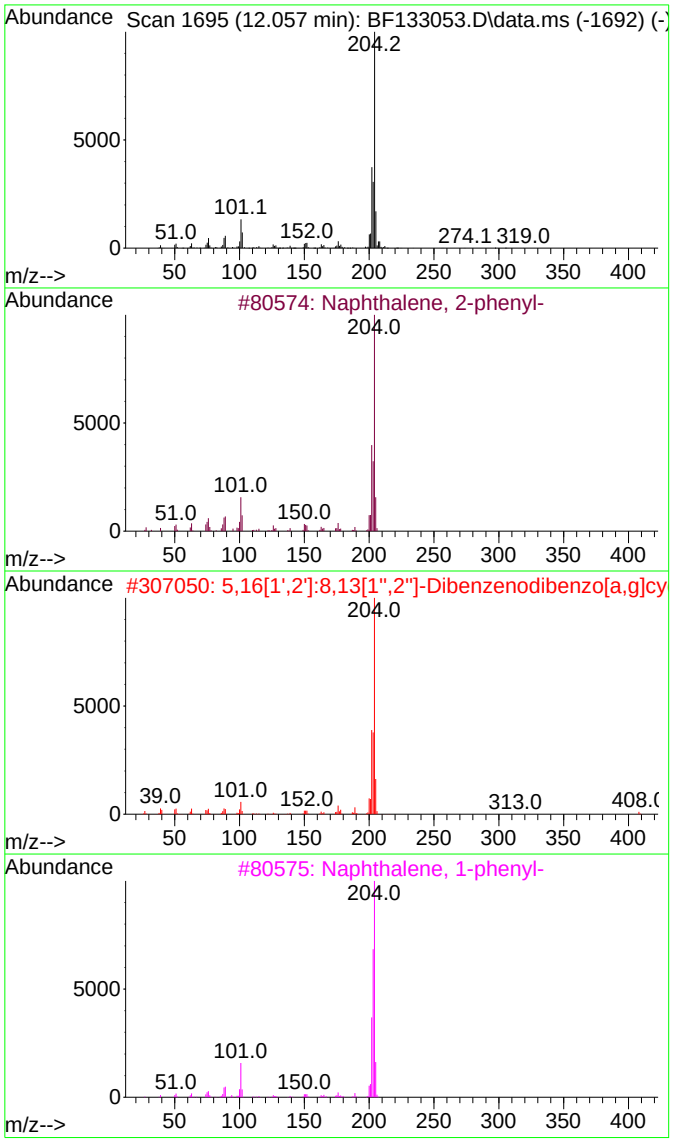
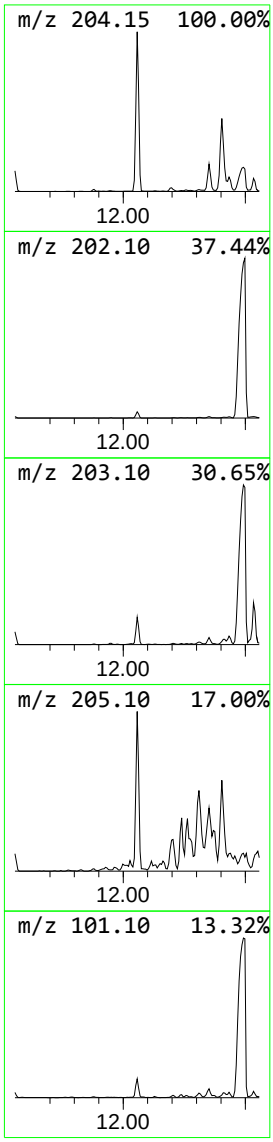
Peak Number 6 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.057	15.17 ng	984625	Phenanthrene-d10	11.263

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
5	9,10-ethenoanthracene, 9,10-dihy...	204	C16H12	1000400-47-8	53





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ClientSampleId :
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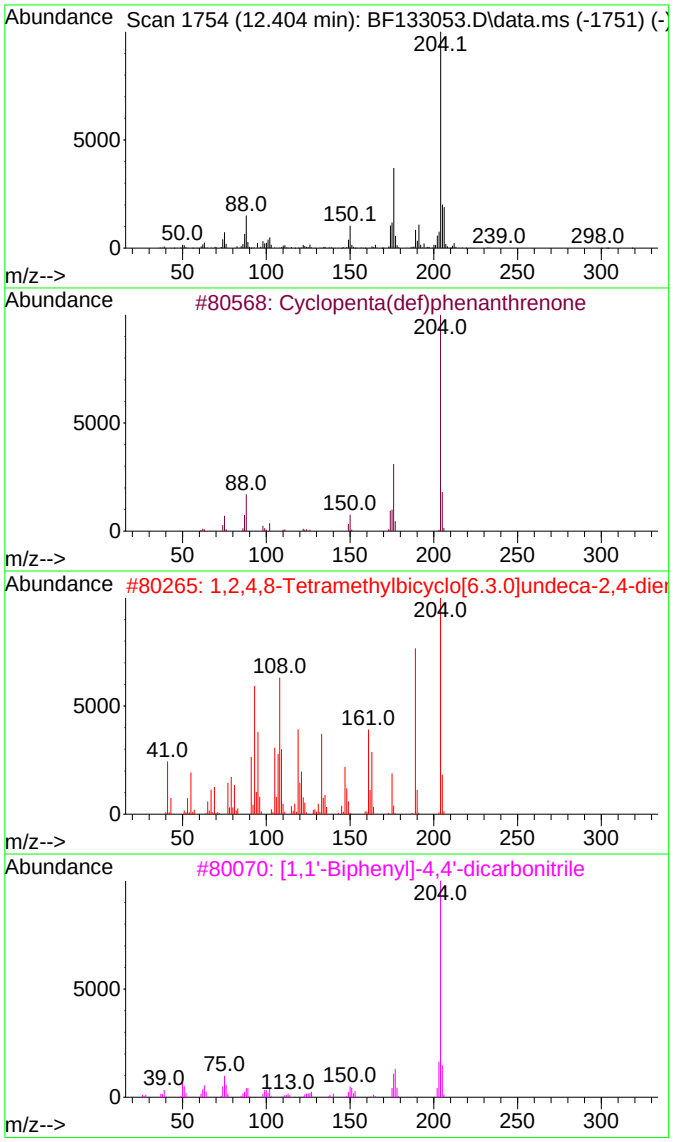
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

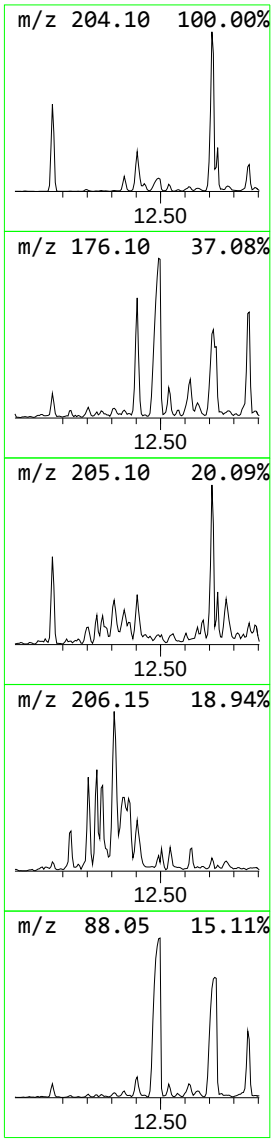
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Cyclopenta(def)phenanthrenone Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.404	10.98 ng	712576	Phenanthrene-d10	11.263

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	50





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ClientSampleId :
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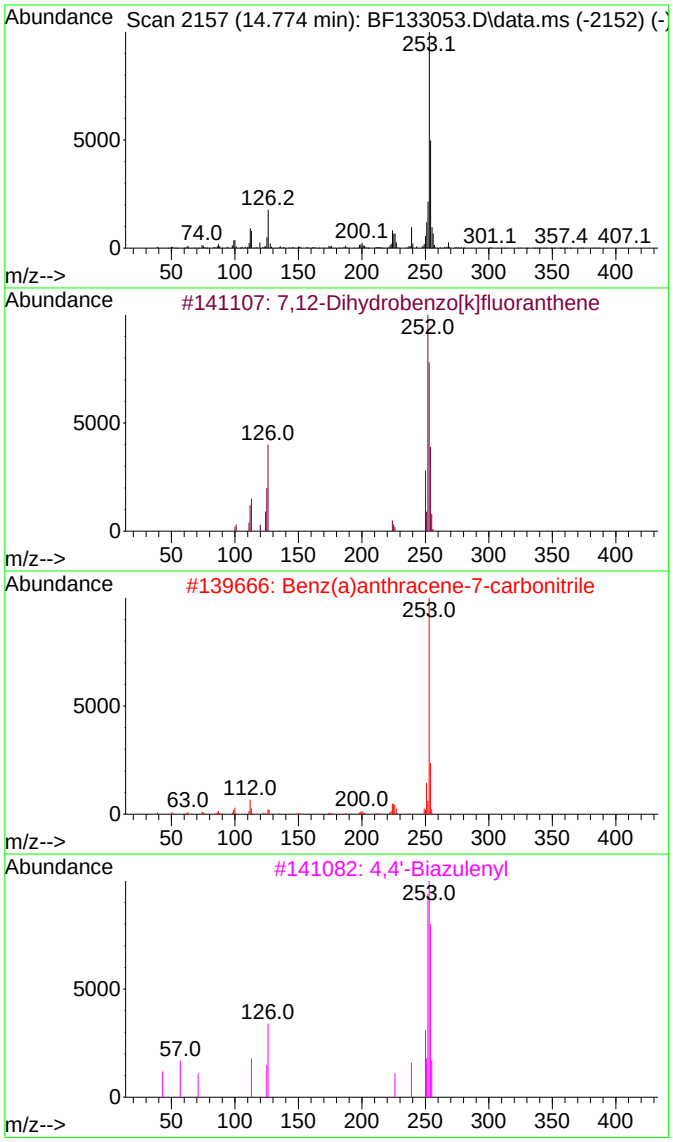
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

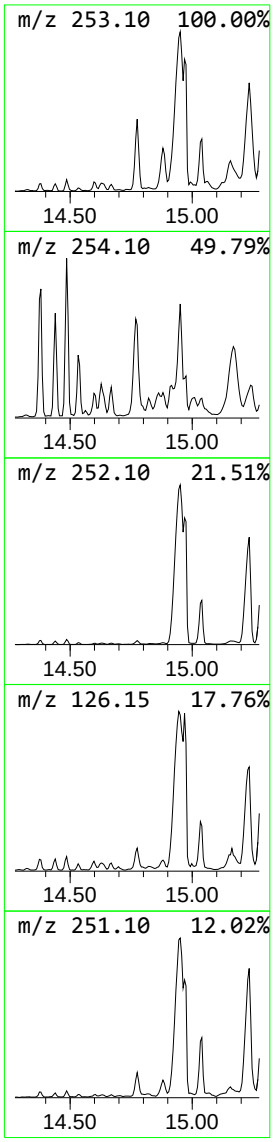
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.774	21.69 ng	1191790	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	74
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	60
3	4,4'-Biazulenyl	254	C20H14	094053-54-0	49
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	47
5	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	46





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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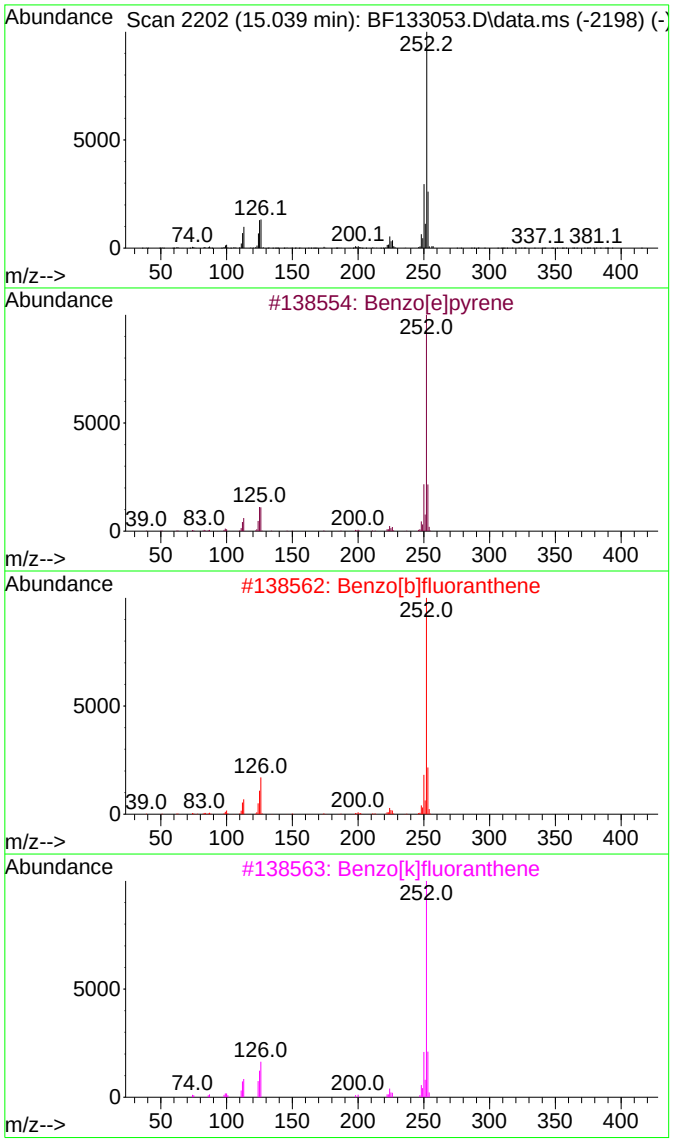
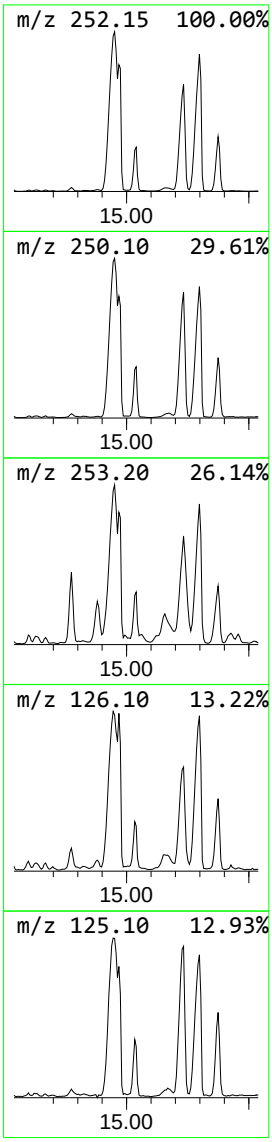
Peak Number 9 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.039	31.37 ng	1723630	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Perylene	252	C20H12	000198-55-0	89





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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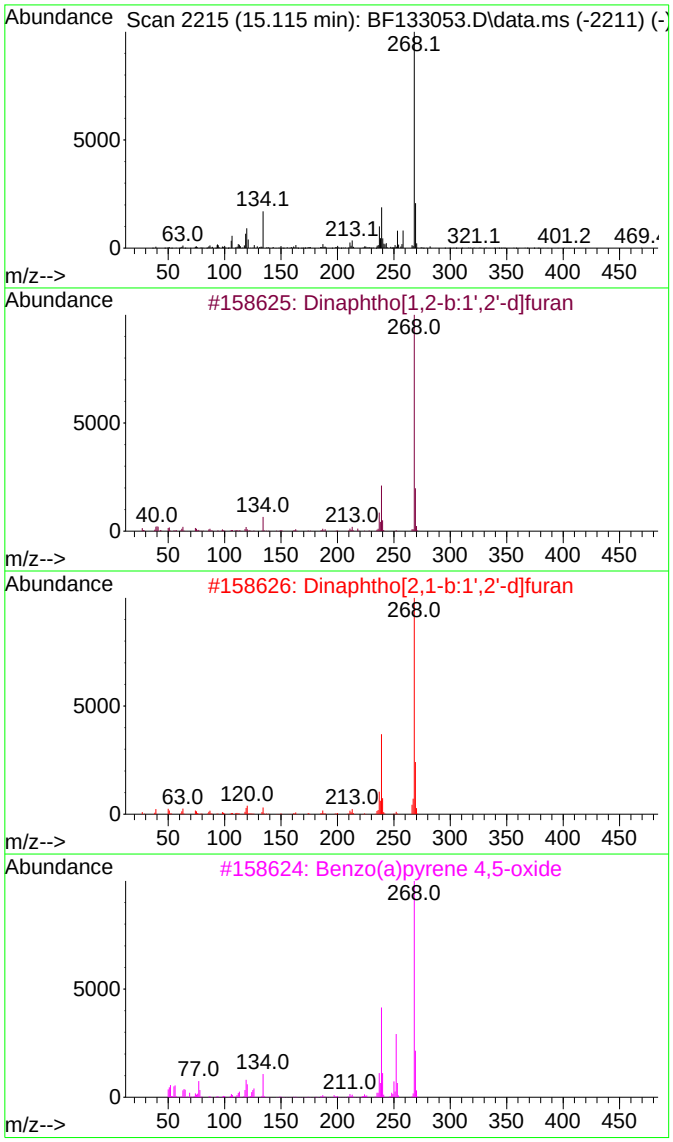
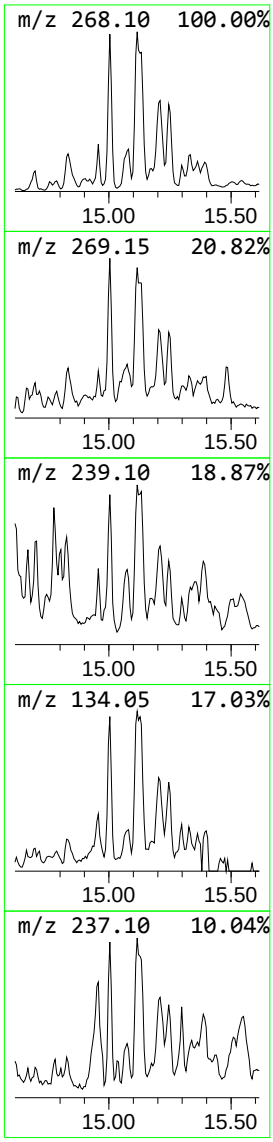
Peak Number 10 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.116	16.02 ng	880380	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	96
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	87
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	83
4	Disperse Blue 1	268	C14H12N4O2	002475-45-8	64
5	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	64





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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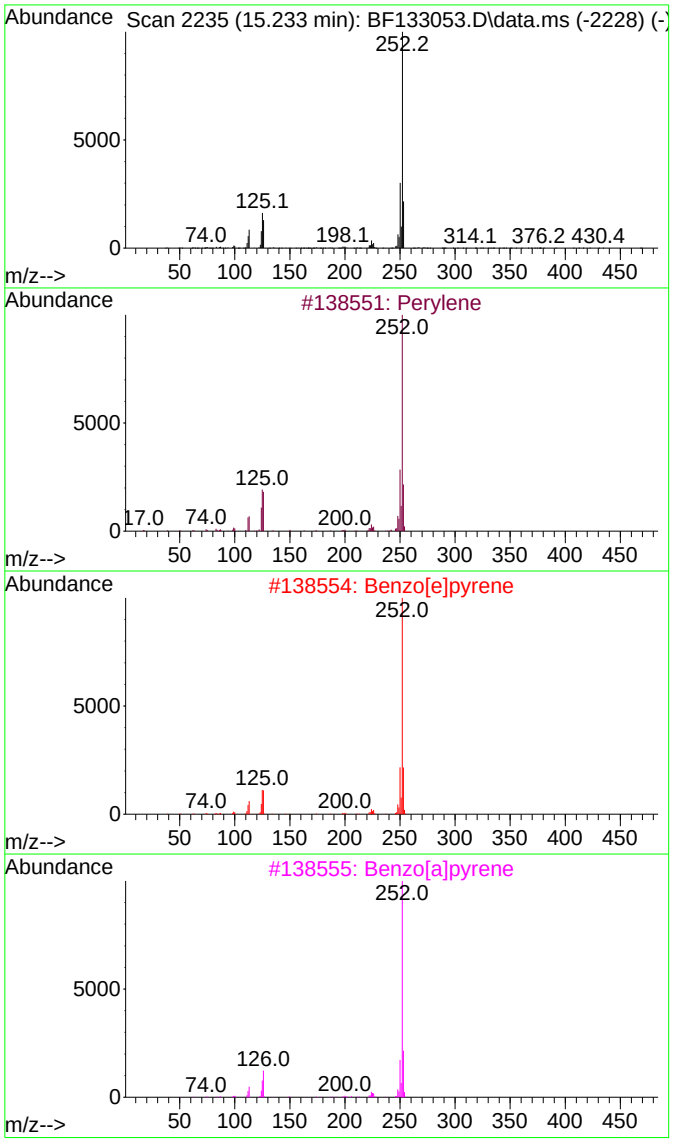
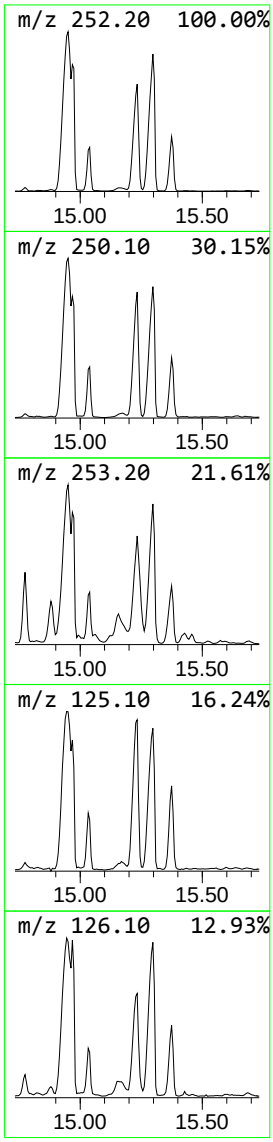
Peak Number 11 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.233	121.42 ng	6671480	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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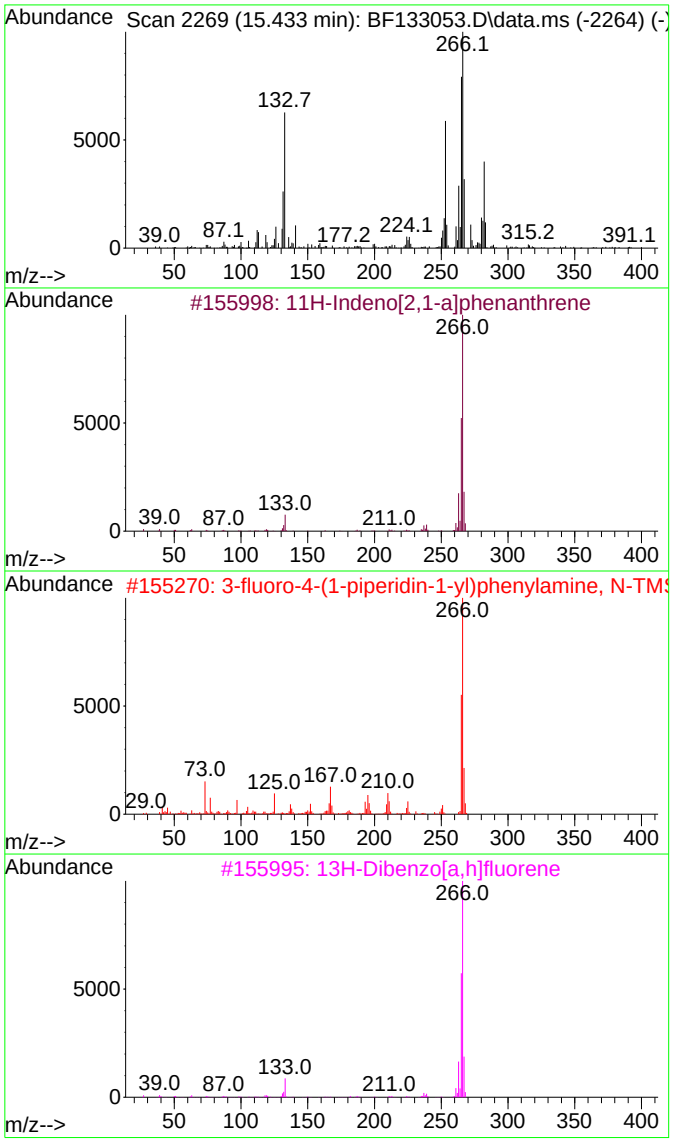
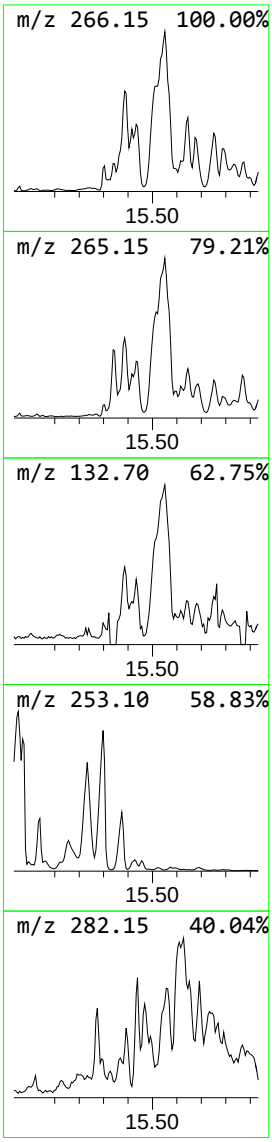
Peak Number 12 unknown15.433 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.433	10.52 ng	578275	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	47
2	3-fluoro-4-(1-piperidin-1-yl)phe...	266	C14H23FN2Si	1000472-44-7	43
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	38
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	38
5	3(2H)-Benzofuranone, 6-methoxy-2...	266	C17H14O3	077764-87-5	35





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
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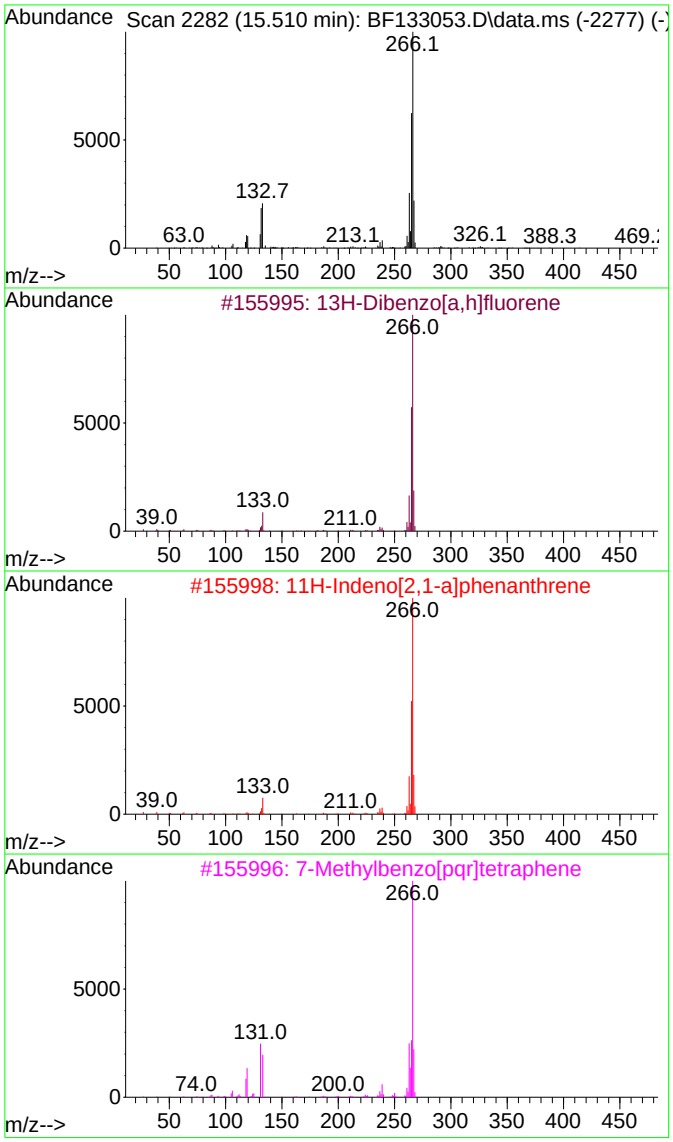
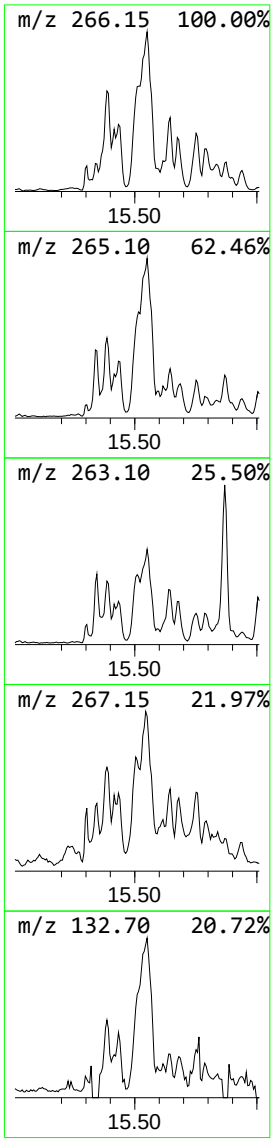
Peak Number 13 13H-Dibenzo[a,h]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.510	11.70 ng	642750	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	89
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	76
3	7-Methylbenzo[pqr]tetraphene	266	C21H14	063041-77-0	68
4	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	59
5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	53





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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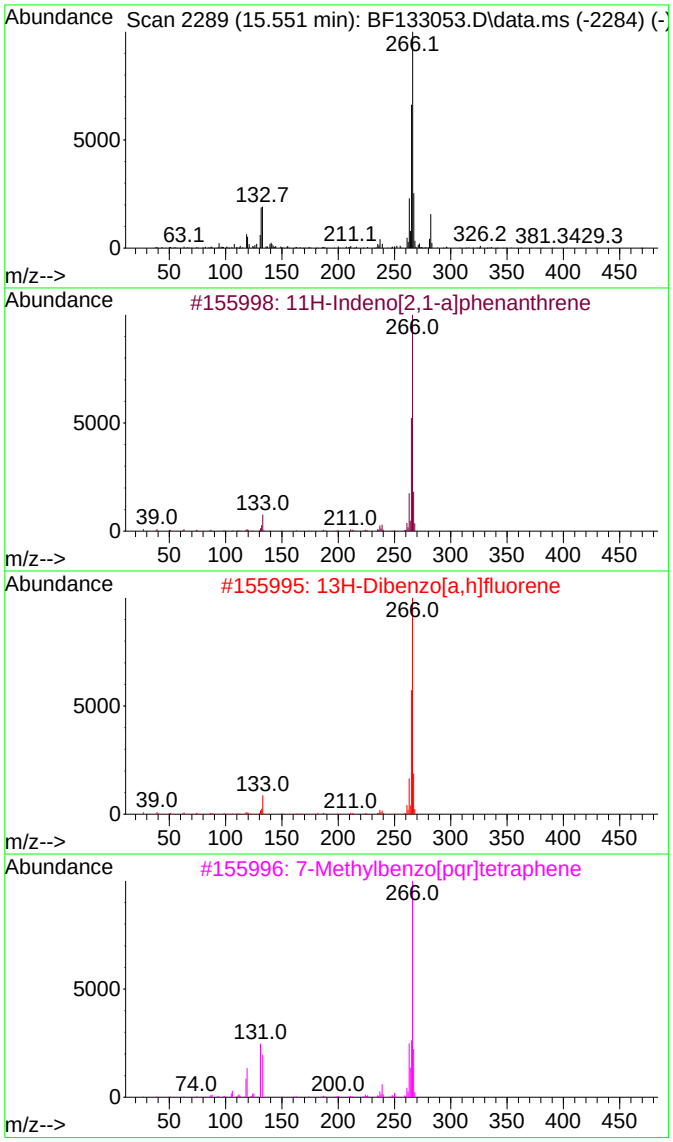
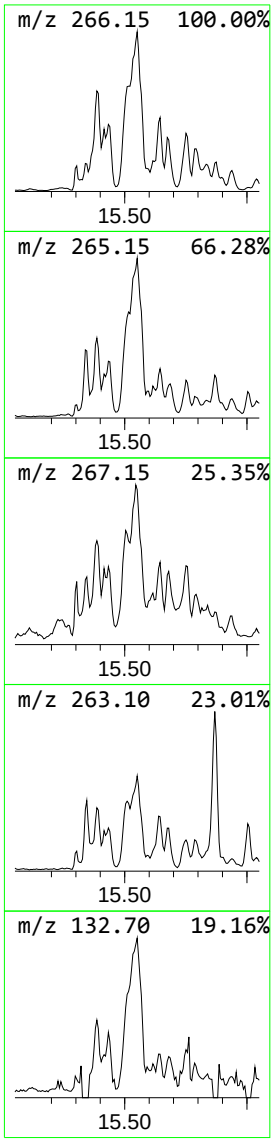
Peak Number 14 11H-Indeno[2,1-a]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.551	35.24 ng	1936540	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	70
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	70
3	7-Methylbenzo[pqr]tetraphene	266	C21H14	063041-77-0	58
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	52
5	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	47





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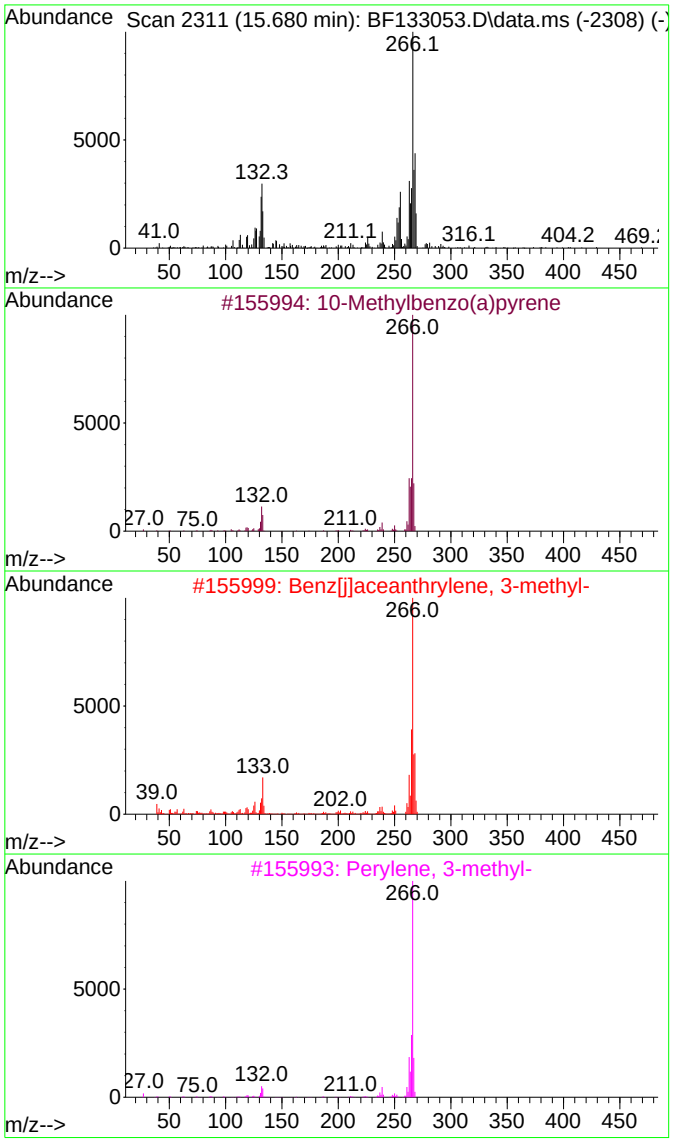
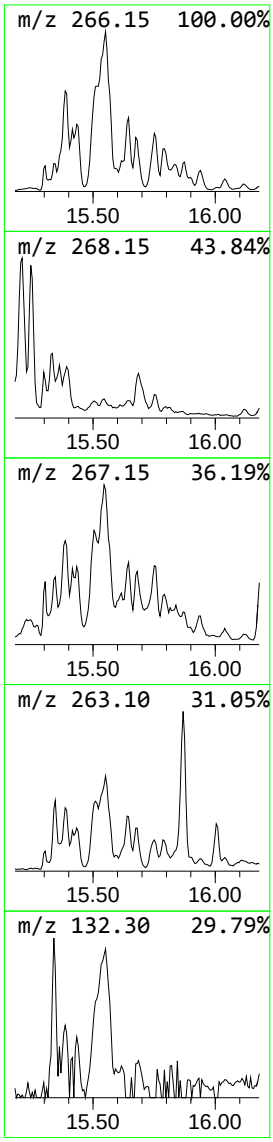
Peak Number 15 10-Methylbenzo(a)pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.680	12.20 ng	670266	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	89
2	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	70
3	Perylene, 3-methyl-	266	C21H14	024471-47-4	55
4	5-Chloro-2-(4-methoxybenzyl)-4,6...	266	C12H11ClN2O3	1000327-10-1	53
5	2-Chloro-5-ethyl-6-phenylpyridin...	267	C15H10ClN3	1000409-46-7	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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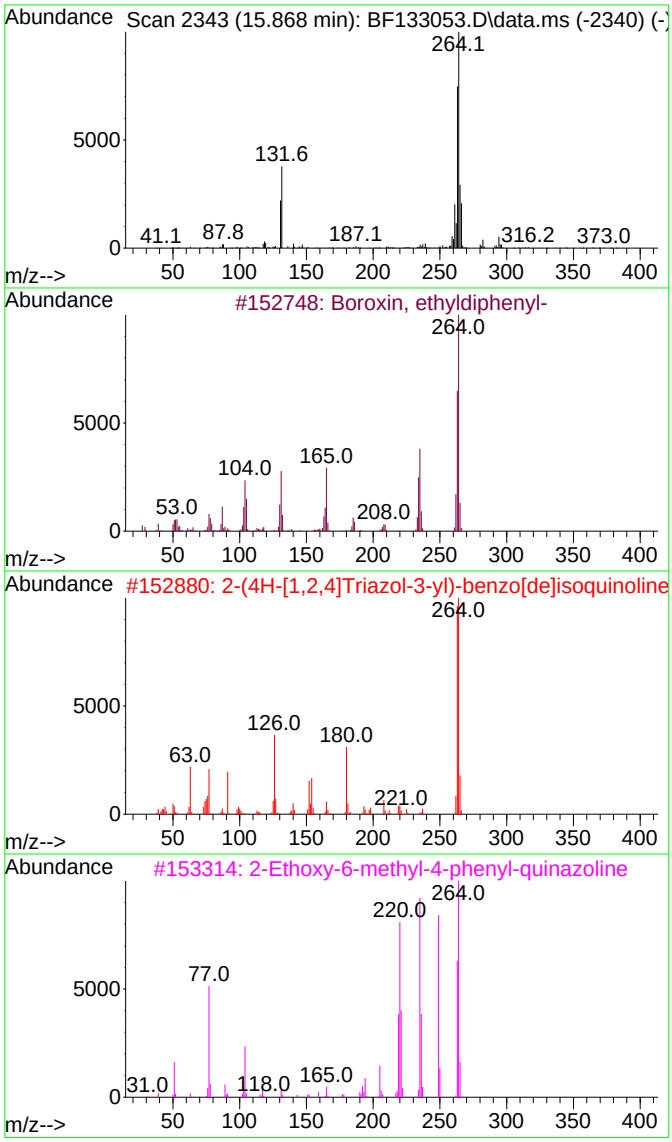
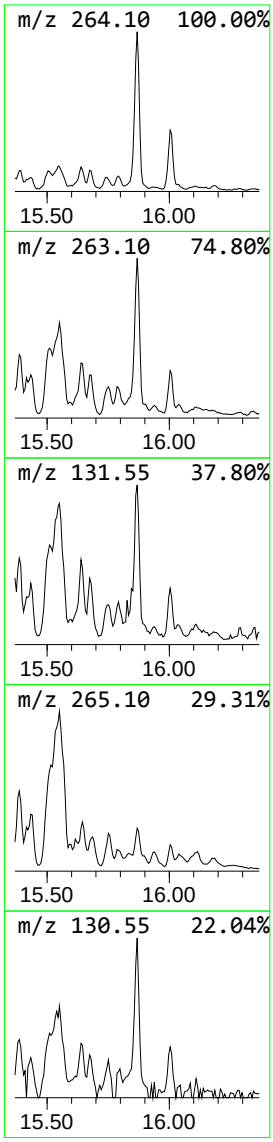
Peak Number 16 Boroxin, ethyldiphenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.868	15.10 ng	829871	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	53
2	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	50
3	2-Ethoxy-6-methyl-4-phenyl-quina...	264	C17H16N2O	1000318-42-5	49
4	1,2,3-Triazole-4-carboxamide, N-...	263	C10H9N5O4	1000260-75-3	37
5	1-(4-Methoxyphenyl)-5-methyl-4-p...	264	C17H16N2O	1000436-38-1	33





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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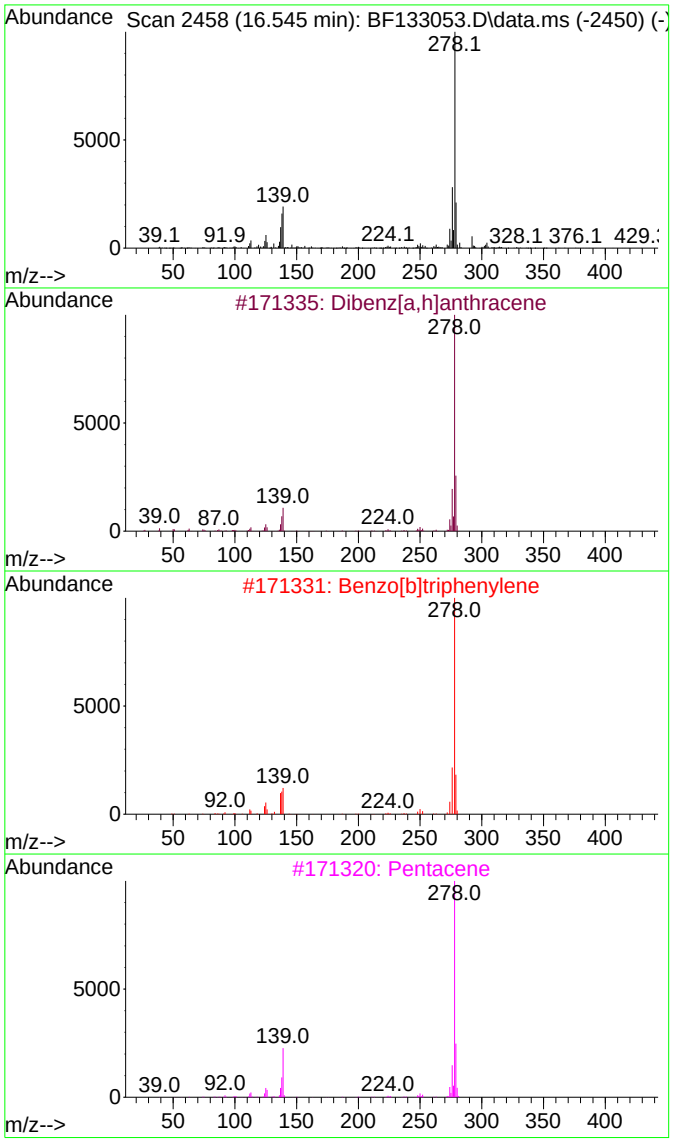
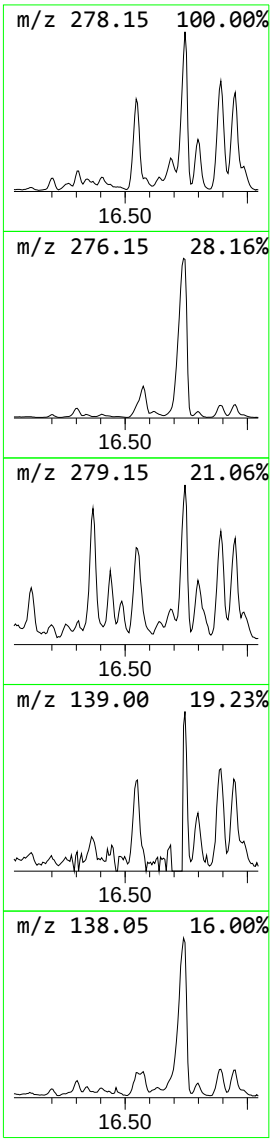
Peak Number 17 Benzo[b]triphenylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.545	25.09 ng	1378530	Perylene-d12	15.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3	Pentacene	278	C22H14	000135-48-8	90
4	Picene	278	C22H14	000213-46-7	86
5	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	76





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Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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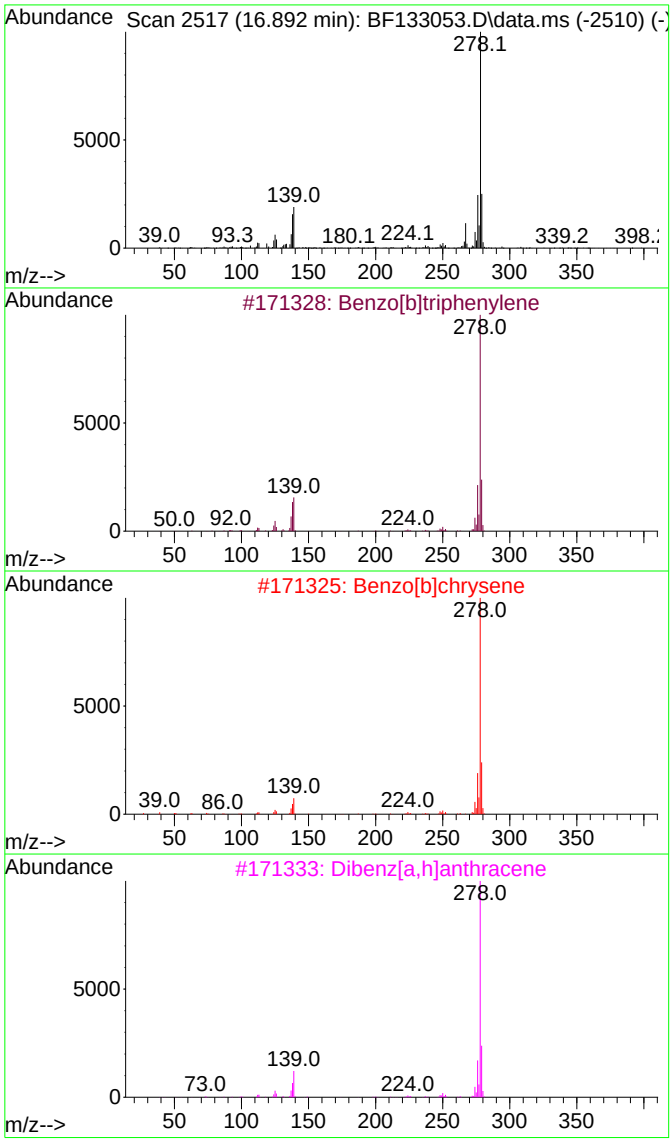
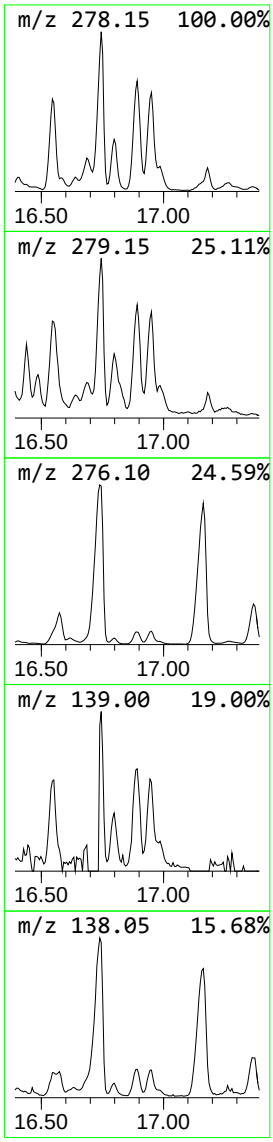
Peak Number 18 Benzo[b]chrysene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.892	27.07 ng	1487270	Perylene-d12	15.339

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





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Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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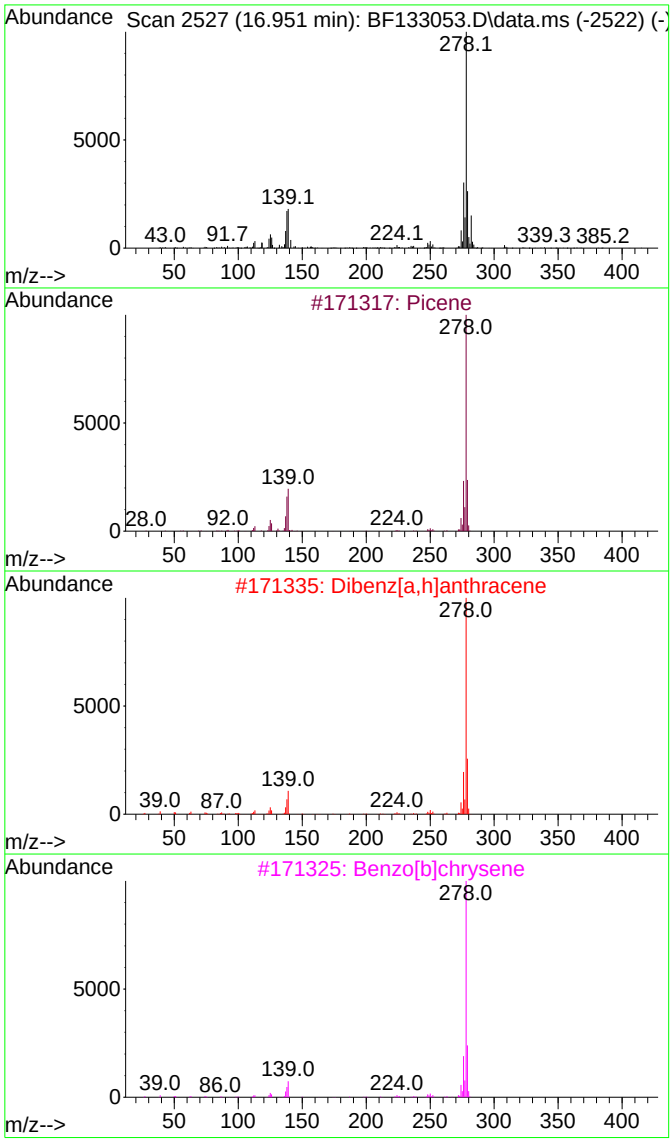
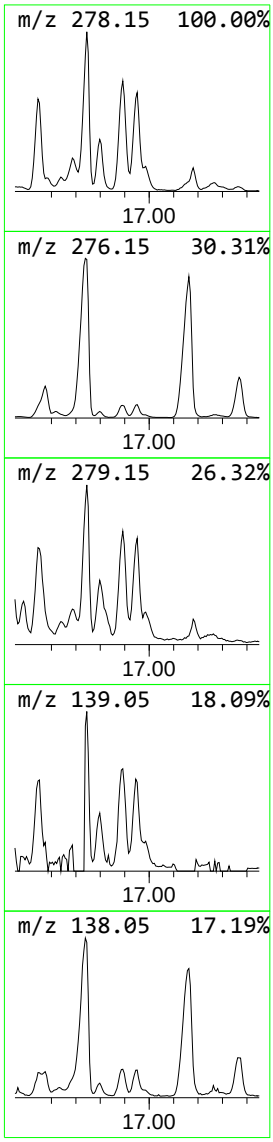
Peak Number 19 Picene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.951	15.01 ng	824943	Perylene-d12	15.339

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	97
3	Benzo[b]chrysene	278	C22H14	000214-17-5	97
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
5	Pentaphene	278	C22H14	000222-93-5	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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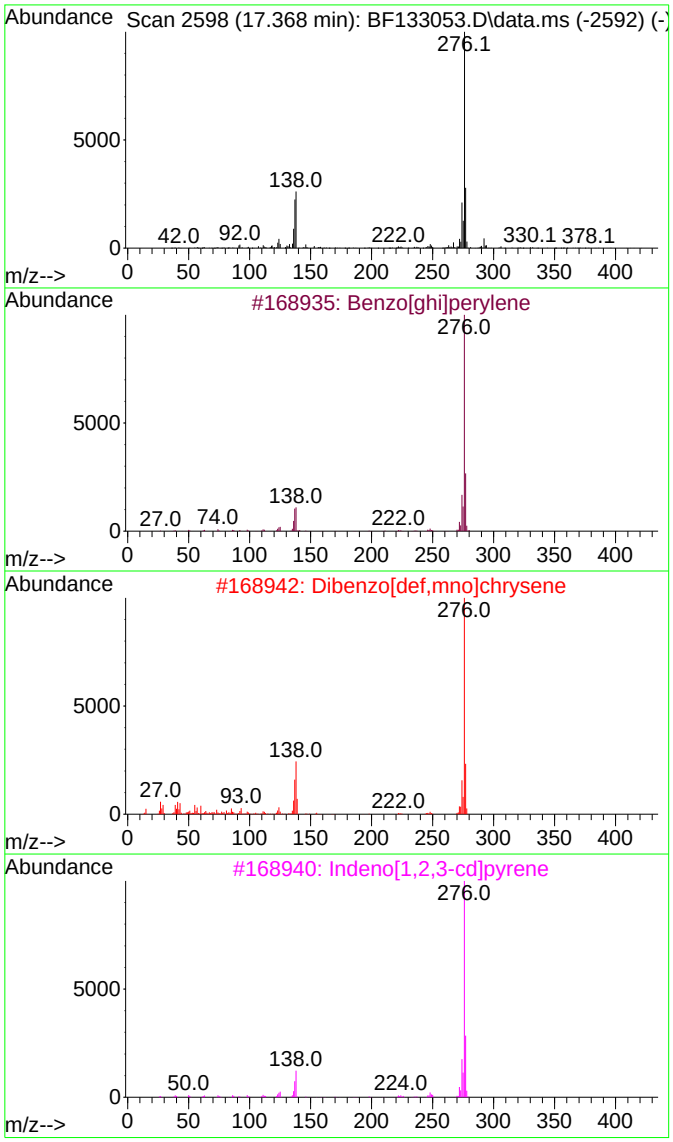
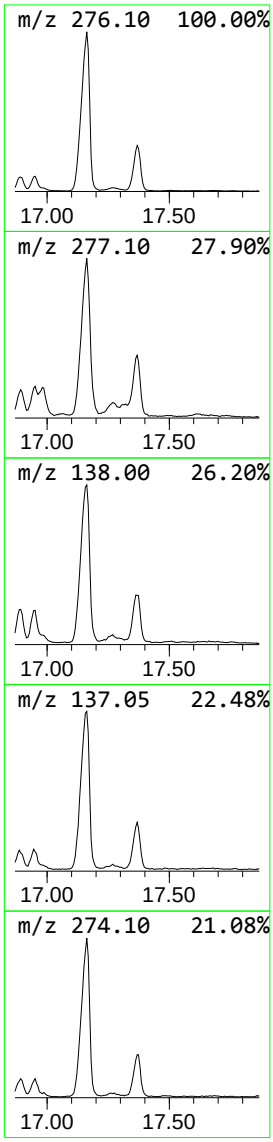
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.368	28.03 ng	1539950	Perylene-d12	15.339

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	96
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	86
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	64
5	6-Amino-3-methylanthrapyridine	276	C17H12N2O2	014642-72-9	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133053.D
Acq On : 26 Apr 2023 04:38
Operator : CG\JU
Sample : 02270-09 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Phenanthrene, 2...	11.763	19.6	ng	1271810	4	11.263	1297880	20.0
Phenanthrene, 1...	11.792	26.7	ng	1730550	4	11.263	1297880	20.0
1H-Cyclopropa[l...	11.839	14.0	ng	907015	4	11.263	1297880	20.0
4H-Cyclopenta[d...	11.874	47.5	ng	3083430	4	11.263	1297880	20.0
Anthracene, 2-m...	11.898	11.1	ng	717143	4	11.263	1297880	20.0
Naphthalene, 2-...	12.057	15.2	ng	984625	4	11.263	1297880	20.0
Cyclopenta(def)...	12.404	11.0	ng	712576	4	11.263	1297880	20.0
7,12-Dihydroben...	14.774	21.7	ng	1191790	6	15.339	1098910	20.0
Benzo[e]pyrene	15.039	31.4	ng	1723630	6	15.339	1098910	20.0
Dinaphtho[1,2-b...	15.116	16.0	ng	880380	6	15.339	1098910	20.0
Perylene	15.233	121.4	ng	6671480	6	15.339	1098910	20.0
unknown15.433	15.433	10.5	ng	578275	6	15.339	1098910	20.0
13H-Dibenzo[a,h...	15.510	11.7	ng	642750	6	15.339	1098910	20.0
11H-Indeno[2,1-...	15.551	35.2	ng	1936540	6	15.339	1098910	20.0
10-Methylbenzo(...	15.680	12.2	ng	670266	6	15.339	1098910	20.0
Boroxin, ethyld...	15.868	15.1	ng	829871	6	15.339	1098910	20.0
Benzo[b]triphen...	16.545	25.1	ng	1378530	6	15.339	1098910	20.0
Benzo[b]chrysene	16.892	27.1	ng	1487270	6	15.339	1098910	20.0
Picene	16.951	15.0	ng	824943	6	15.339	1098910	20.0
Dibenzo[def,mno...	17.368	28.0	ng	1539950	6	15.339	1098910	20.0