LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF136056.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.445	567	571	574	rVB	1015418	839558	15.86%	0.976%
2	6.110	680	684	687	rVB	704129	645534	12.19%	0.751%
3	6.445	738	741	746	rBV	946768	807466	15.25%	0.939%
4	6.551	757	759	762	rVB	277750	201385	3.80%	0.234%
5	6.822	802	805	809	rBV	744858	619137	11.69%	0.720%
6	6.904	815	819	822	rBV	1060576	926600	17.50%	1.078%
7	7.381	893	900	903	rBV	577736	473883	8.95%	0.551%
8	8.104	1018	1023	1025	rBV	910665	790588	14.93%	0.919%
9	8.122	1025	1026	1030	rVV	674193	519213	9.81%	0.604%
10	8.816	1141	1144	1147	rVB	365828	271984	5.14%	0.316%
11	8.916	1156	1161	1164	rVB	588573	458011	8.65%	0.533%
12	9.180	1203	1206	1209	rVB	1081014	770568	14.55%	0.896%
13	9.280	1217	1223	1226	rBV	214054	215375	4.07%	0.250%
14	9.380	1237	1240	1245	rVB2	134865	198013	3.74%	0.230%
15	9.445	1245	1251	1255	rBV2	299816	391783	7.40%	0.456%
16	9.522	1260	1264	1266	rBV	424548	404823	7.65%	0.471%
17	9.586	1272	1275	1278	rVB	275250	225218	4.25%	0.262%
18	9.639	1281	1284	1285	rBV	244900	211967	4.00%	0.247%
19	9.722	1293	1298	1303	rBV	1467184	1187386	22.42%	1.381%
20	9.863	1319	1322	1325	rVB	894974	691348	13.06%	0.804%
21	9.892	1325	1327	1331	rBV2	271446	261929	4.95%	0.305%
22	9.969	1336	1340	1344	rBV	182141	214123	4.04%	0.249%
23	10.063	1350	1356	1360	rVV2	367404	441187	8.33%	0.513%
24	10.180	1371	1376	1379	rVV2	223693	281239	5.31%	0.327%
25	10.316	1397	1399	1402	rVV	263346	194169	3.67%	0.226%
26	10.410	1412	1415	1422	rVV2	555652	637511	12.04%	0.741%
27	10.475	1422	1426	1428	rVV2	152625	197640	3.73%	0.230%
28	10.522	1432	1434	1437	rVV2	234843	239665	4.53%	0.279%
29	10.569	1439	1442	1445	rVV	234566	277141	5.23%	0.322%
30	10.651	1451	1456	1460	rVV2	768766	818900	15.47%	0.952%
31	10.780	1475	1478	1483	rVB2	252838	298242	5.63%	0.347%
32	10.963	1505	1509	1512	rBV2	300970	393487	7.43%	0.458%
33	11.045	1520	1523	1526	rBV	254861	214005	4.04%	0.249%
34	11.251	1555	1558	1563	rVB	950264	852529	16.10%	0.991%
35	11.357	1572	1576	1578	rBV	866346	858990	16.22%	0.999%
36	11.386	1578	1581	1584	rVV	3219359	2941695	55.56%	3.421%

LSC Area Percent Report

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Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.433	1585	1589	1591	rVV	1479565	1182609	22.33%	1.375%
38	11.463	1591	1594	1598	rVV	911005	860096	16.24%	1.000%
39	11.657	1625	1627	1630	rBV	357869	289660	5.47%	0.337%
40	11.686	1630	1632	1636	rVB	649814	565632	10.68%	0.658%
41	11.774	1644	1647	1651	rVB	498153	528898	9.99%	0.615%
42	11.863	1658	1662	1664	rVV	1037404	984549	18.59%	1.145%
43	11.892	1664	1667	1671	rVB	1256418	1086603	20.52%	1.264%
44	11.939	1671	1675	1677	rBV	524166	482340	9.11%	0.561%
45	11.974	1677	1681	1683	rBV	1815397	1810482	34.19%	2.106%
46	11.998	1683	1685	1690	rVB	849335	701672	13.25%	0.816%
47	12.098	1699	1702	1704	rVB	284767	236773	4.47%	0.275%
48	12.163	1706	1713	1715	rBV2	721485	890973	16.83%	1.036%
49	12.263	1723	1730	1732	rBV3	199418	363121	6.86%	0.422%
50	12.292	1732	1735	1737	rVV	315977	357792	6.76%	0.416%
51	12.310	1737	1738	1741	rVV2	249999	232766	4.40%	0.271%
52	12.339	1741	1743	1745	rVV	397708	379020	7.16%	0.441%
53	12.363	1745	1747	1750	rVB2	418214	375510	7.09%	0.437%
54	12.416	1750	1756	1759	rBV	1006940	1260095	23.80%	1.465%
55	12.457	1759	1763	1765	rVV2	668220	962409	18.18%	1.119%
56	12.504	1768	1771	1775	rBV3	412594	675464	12.76%	0.786%
57	12.539	1775	1777	1780	rVB	246744	205791	3.89%	0.239%
58	12.586	1780	1785	1787	rBV	3597705	3712882	70.12%	4.318%
59	12.627	1787	1792	1797	rVV2	901442	998506	18.86%	1.161%
60	12.674	1797	1800	1804	rVV	809565	801388	15.13%	0.932%
61	12.733	1807	1810	1818	rVB3	582842	987791	18.66%	1.149%
62	12.816	1818	1824	1827	rBV	4634167	5295010	100.00%	6.158%
63	12.868	1830	1833	1836	rVB3	328380	374542	7.07%	0.436%
64	12.927	1840	1843	1845	rBV2	287304	283738	5.36%	0.330%
65	12.957	1845	1848	1856	rVB	1178848	1322253	24.97%	1.538%
66	13.027	1856	1860	1864	rBV2	605690	905076	17.09%	1.053%
67	13.086	1868	1870	1872	rVB2	260825	195295	3.69%	0.227%
68	13.139	1877	1879	1882	rVB	1379037	1288910	24.34%	1.499%
69	13.186	1882	1887	1888	rBV3	288488	349310	6.60%	0.406%
70	13.210	1888	1891	1894	rVV	1111591	998244	18.85%	1.161%
71	13.245	1894	1897	1901	rVV2	1049687	1084541	20.48%	1.261%
72	13.310	1905	1908	1910	rVV3	253031	287916	5.44%	0.335%
73	13.339	1910	1913	1916	rVV	894926	855488	16.16%	0.995%
74	13.368	1916	1918	1922	rVB	939286	845749	15.97%	0.984%
75	13.510	1937	1942	1945	rBV2	1189747	1381568	26.09%	1.607%
76	13.551	1946	1949	1950	rVV2	257645	253429	4.79%	0.295%

LSC Area Percent Report

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Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
M-1(0-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	13.568	1950	1952	1954	rVB	278309	199457	3.77%	0.232%
78	13.704	1971	1975	1978	rBV4	741656	1039800	19.64%	1.209%
79	13.733	1978	1980	1982	rVV3	455339	382358	7.22%	0.445%
80	13.768	1982	1986	1988	rVV	790716	849454	16.04%	0.988%
81	13.798	1988	1991	1993	rVV2	745714	767380	14.49%	0.892%
82	13.839	1993	1998	2001	rVB3	2960741	4350550	82.16%	5.060%
83	14.010	2023	2027	2031	rBV2	3394031	4900430	92.55%	5.699%
84	14.051	2031	2034	2039	rVB	2576128	2483953	46.91%	2.889%
85	14.163	2048	2053	2055	rBV3	374463	512221	9.67%	0.596%
86	14.274	2070	2072	2076	rVB	356738	361135	6.82%	0.420%
87	14.410	2091	2095	2098	rVV	898054	1021862	19.30%	1.188%
88	14.445	2098	2101	2104	rVV	621012	553877	10.46%	0.644%
89	14.504	2108	2111	2114	rVV2	607890	643869	12.16%	0.749%
90	14.533	2114	2116	2118	rVV	574908	577058	10.90%	0.671%
91	14.557	2118	2120	2124	rVV2	606861	549080	10.37%	0.639%
92	14.610	2126	2129	2132	rVB2	317069	346647	6.55%	0.403%
93	15.080	2204	2209	2212	rBV	1391307	2336551	44.13%	2.717%
94	15.186	2224	2227	2231	rVB	540289	582726	11.01%	0.678%
95	15.392	2257	2262	2268	rVB	1039843	1370212	25.88%	1.594%
96	15.457	2268	2273	2277	rBV	1673922	2134651	40.31%	2.483%
97	15.515	2279	2283	2286	rVV	552981	732871	13.84%	0.852%
98	15.551	2286	2289	2296	rVB2	394700	625464	11.81%	0.727%
99	17.039	2536	2542	2550	rVB2	542137	1163733	21.98%	1.353%
100	17.503	2614	2621	2630	rBV	441612	873560	16.50%	1.016%

Sum of corrected areas: 85985082

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
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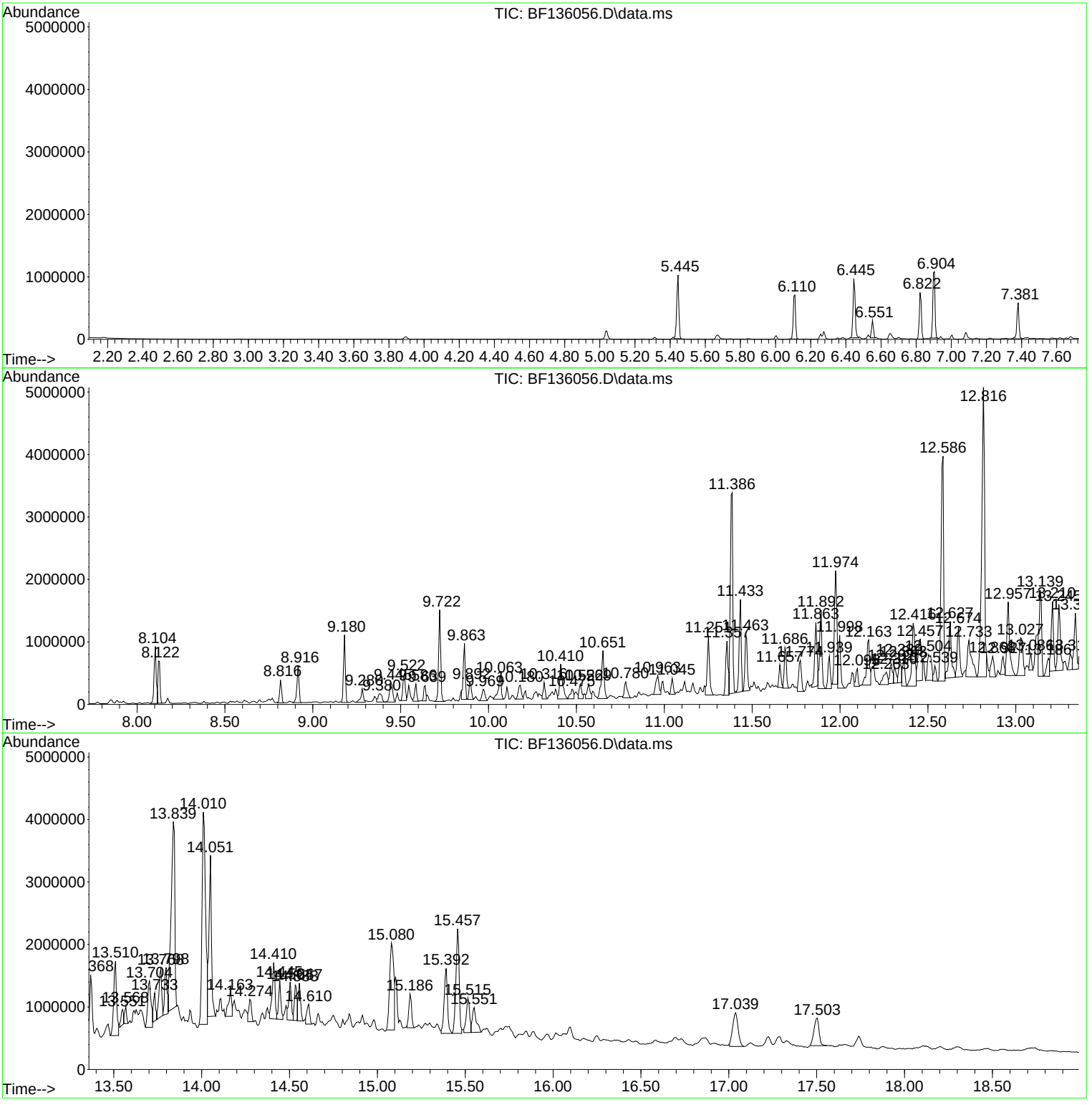
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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\BF103123\
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ClientSampleId :
M-1(0-5)

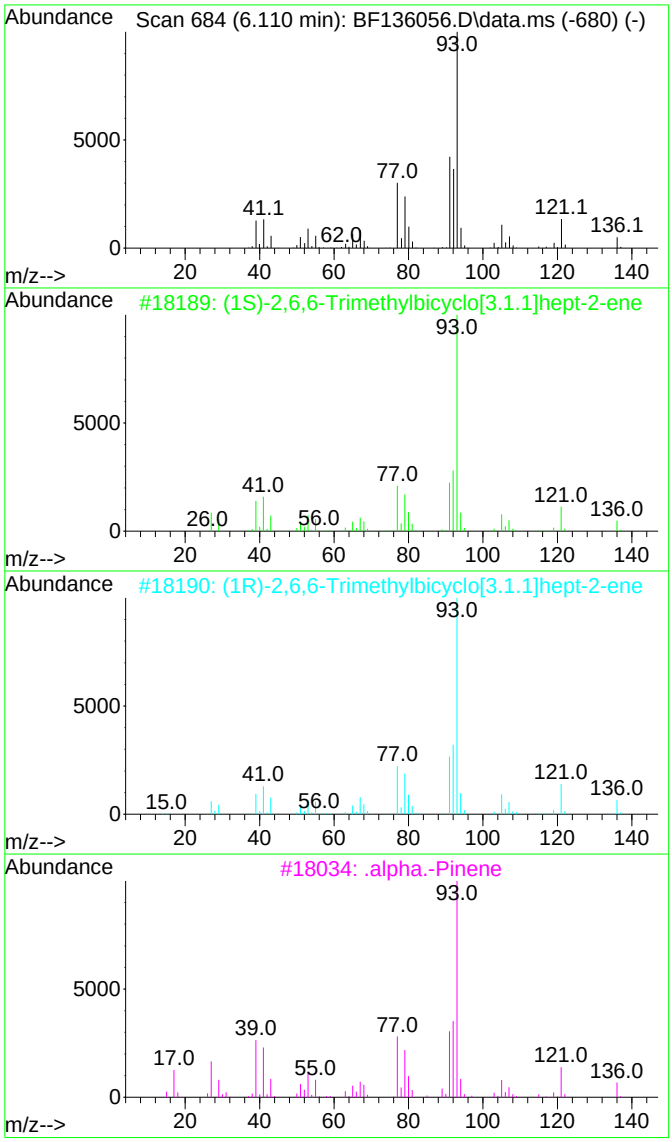
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

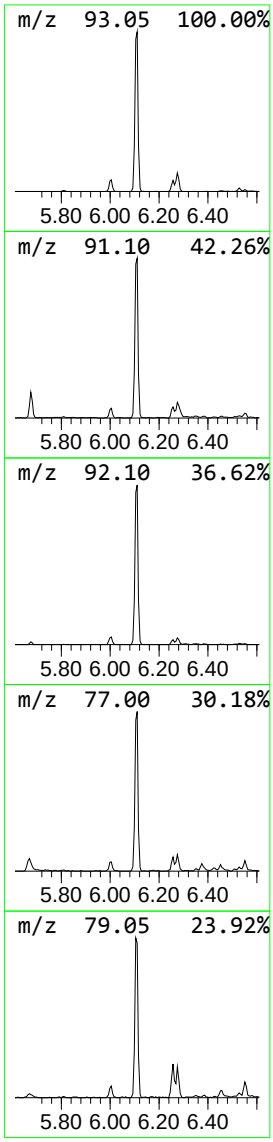
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (1S)-2,6,6-Trimethylbicyclo... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.110	20.85 ng	645534	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	97
2	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	95
3	.alpha.-Pinene	136	C10H16	000080-56-8	94
4	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
5	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000508-32-7	91





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ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

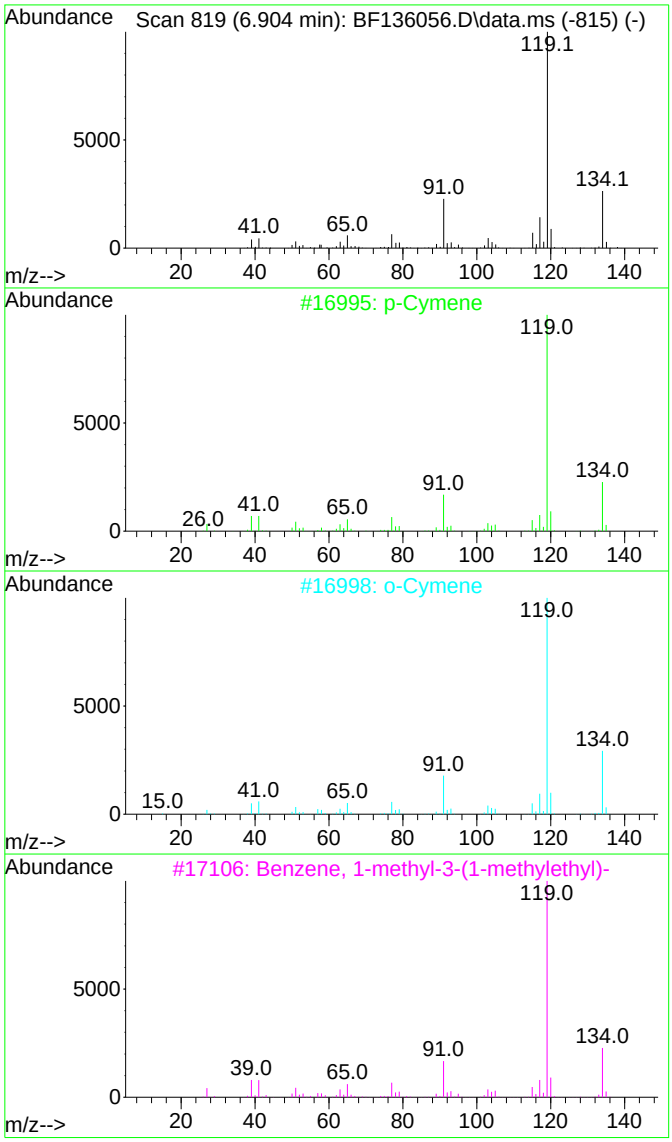
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

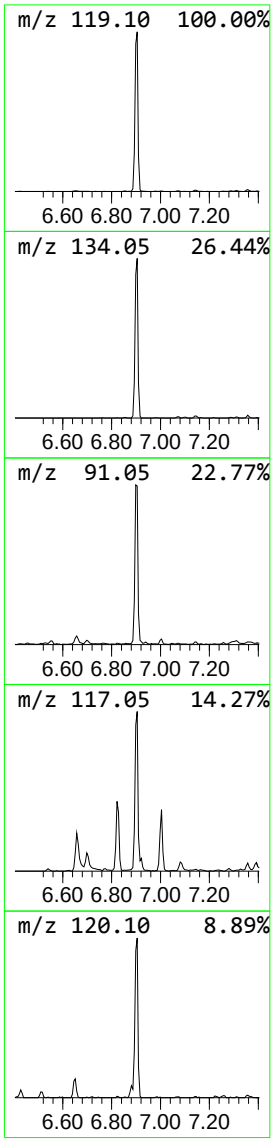
****

Peak Number 2 p-Cymene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.904	29.93 ng	926600	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	97
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
4	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	91
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91





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M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

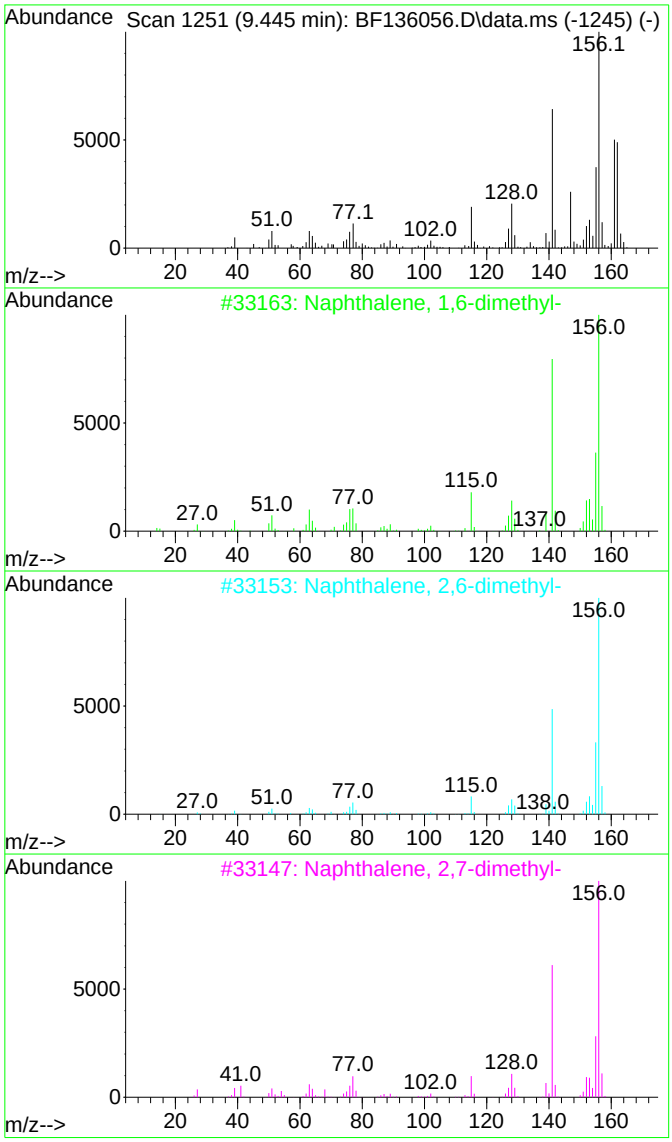
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

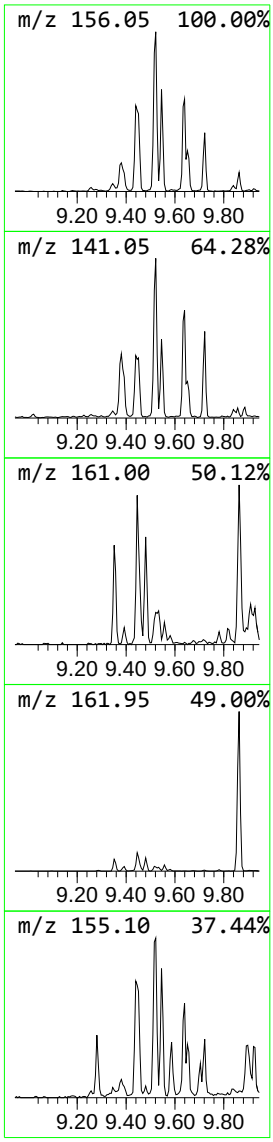
****

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.445	11.33 ng	391783	Acenaphthene-d10	9.863

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	91
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	91
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	91
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

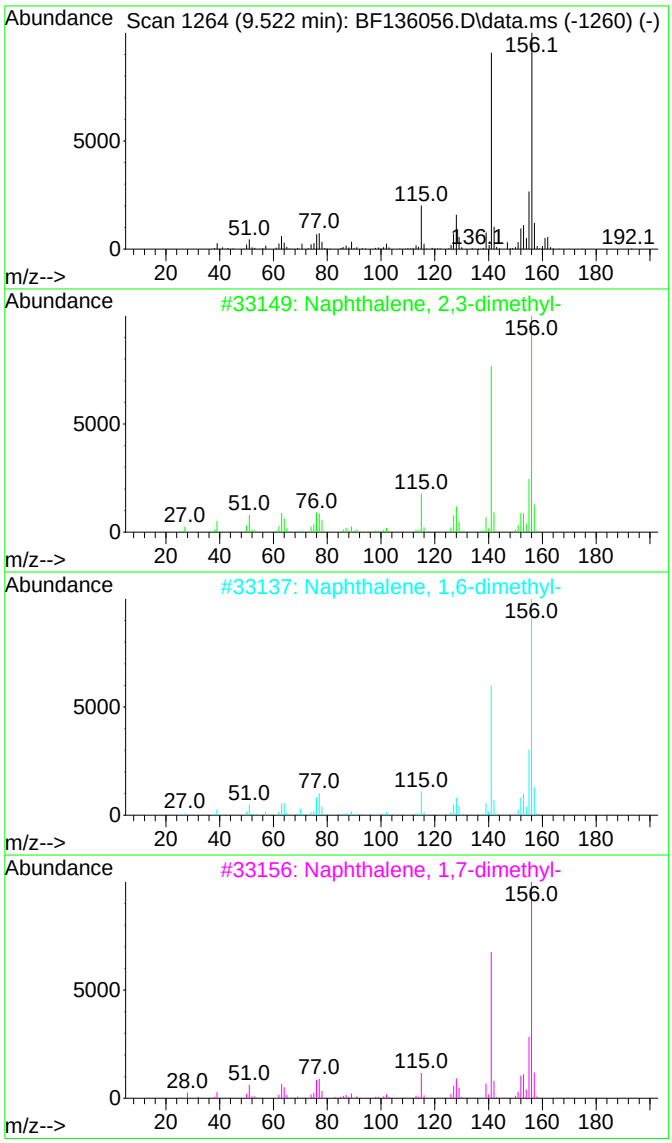
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

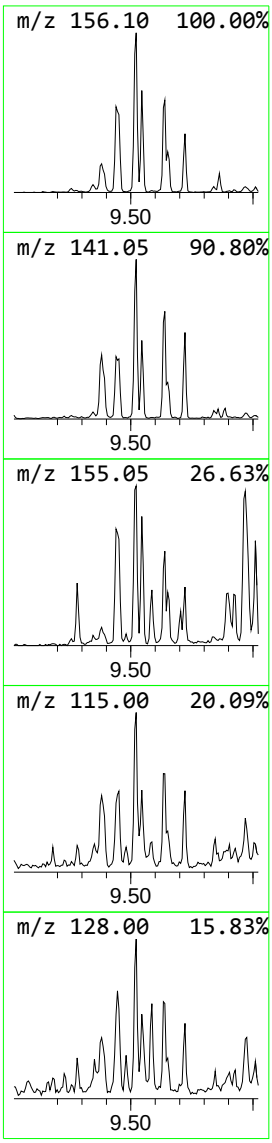
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.522	11.71 ng	404823	Acenaphthene-d10	9.863

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

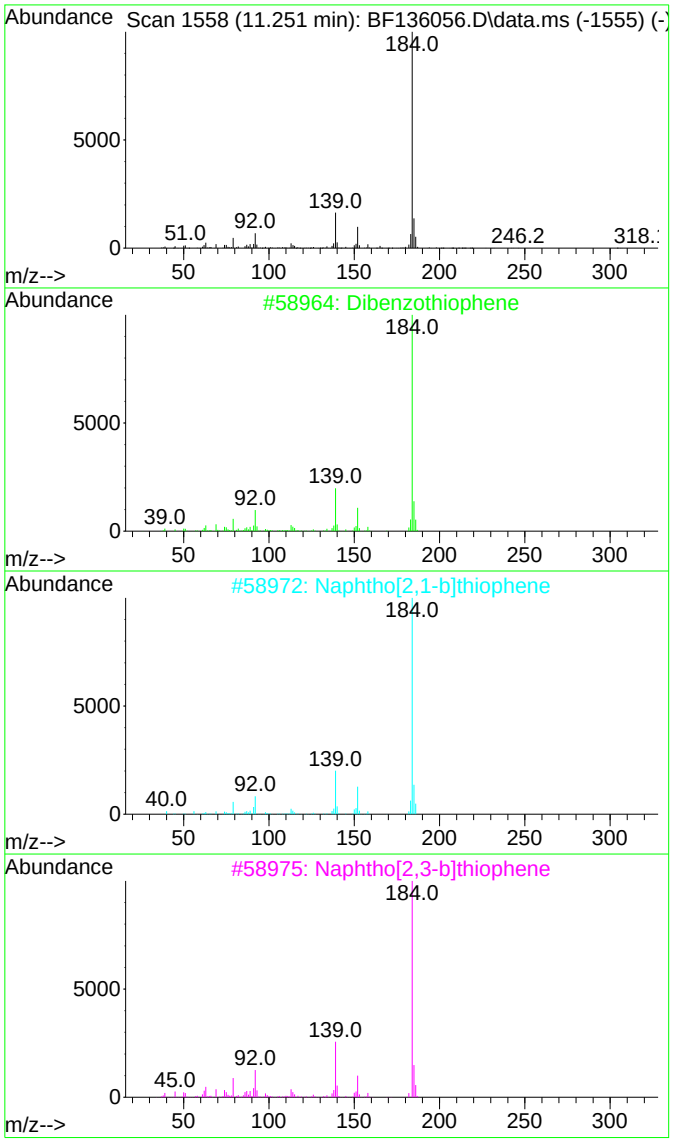
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

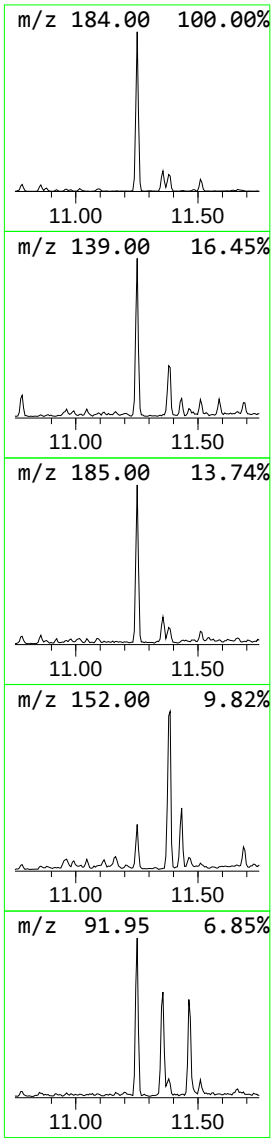
****

Peak Number 5 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.251	19.85 ng	852529	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

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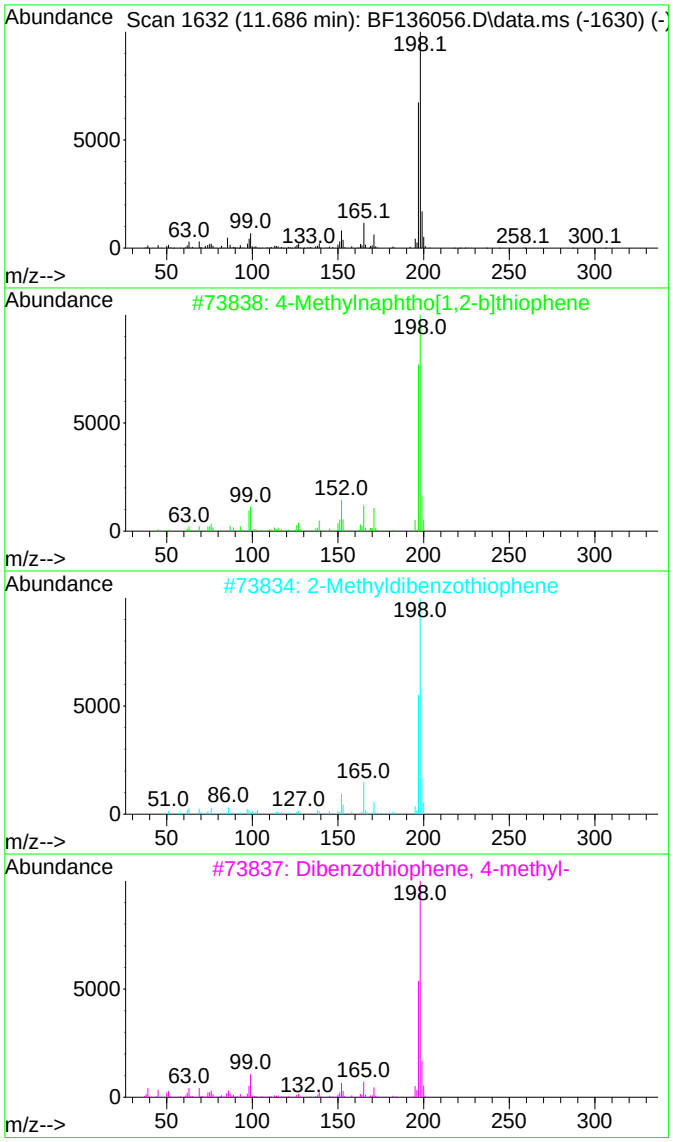
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

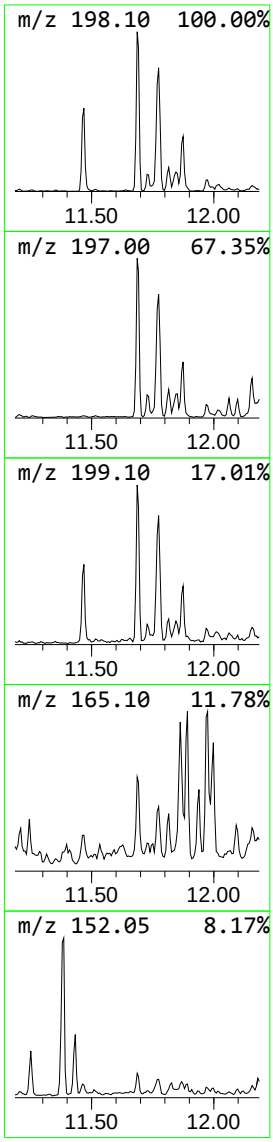
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.686	13.17 ng	565632	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	96
2	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	95
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	95
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	94
5	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	87





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Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

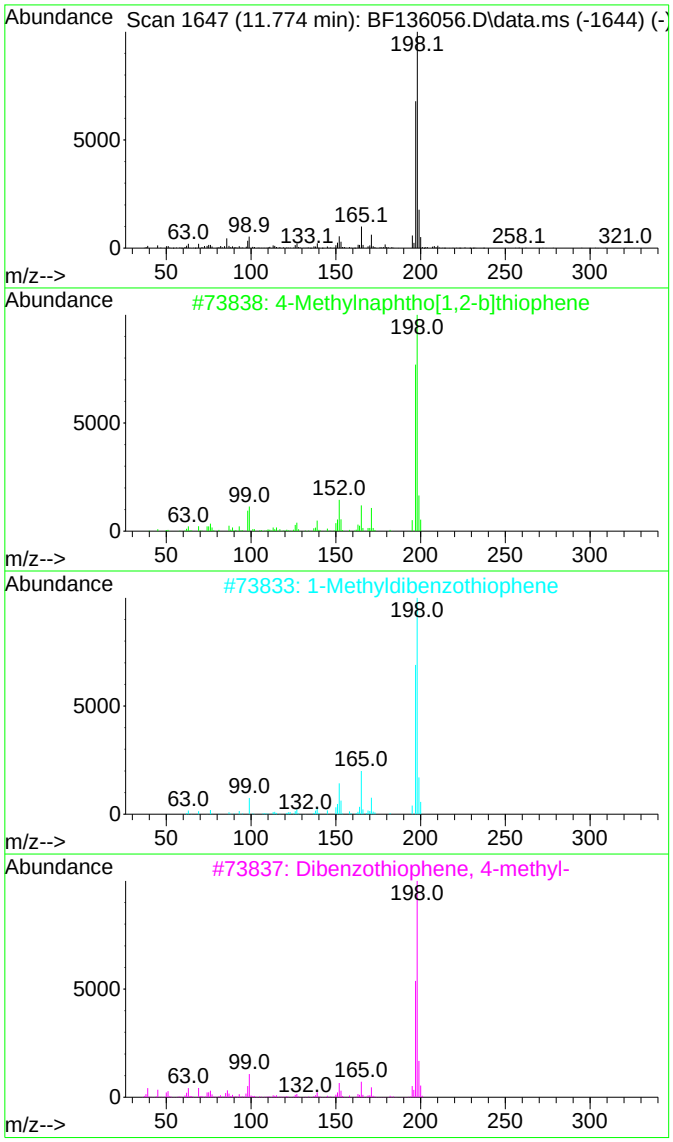
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

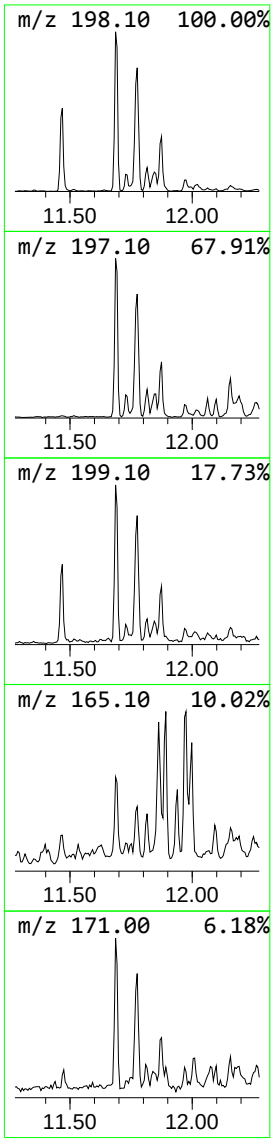
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1-Methyldibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.774	12.31 ng	528898	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	97
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
5	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	86





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Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

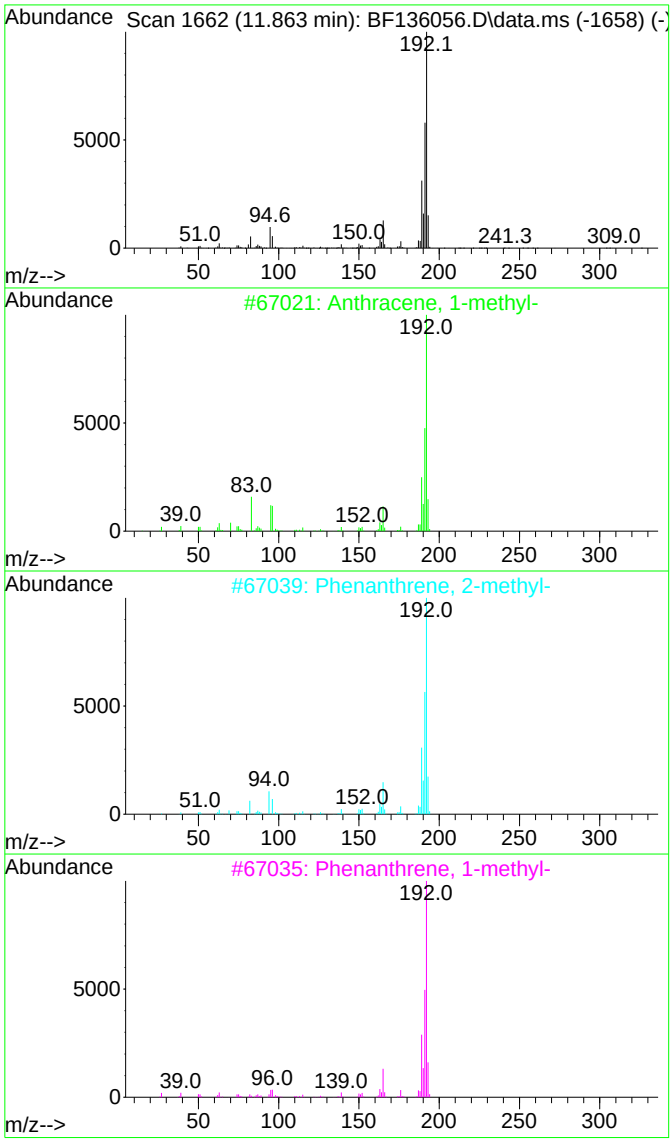
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

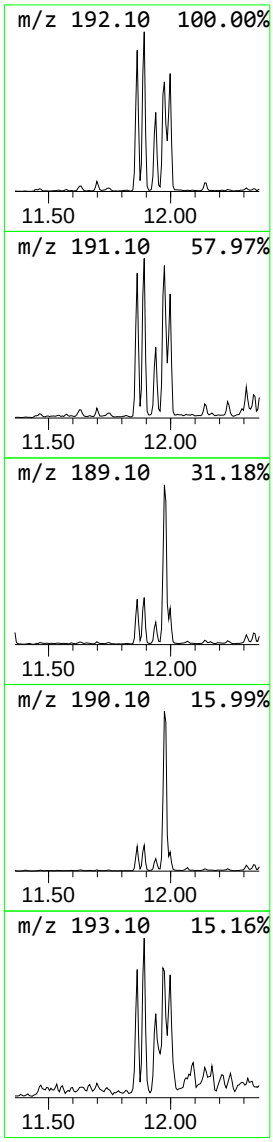
****

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.863	22.92 ng	984549	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

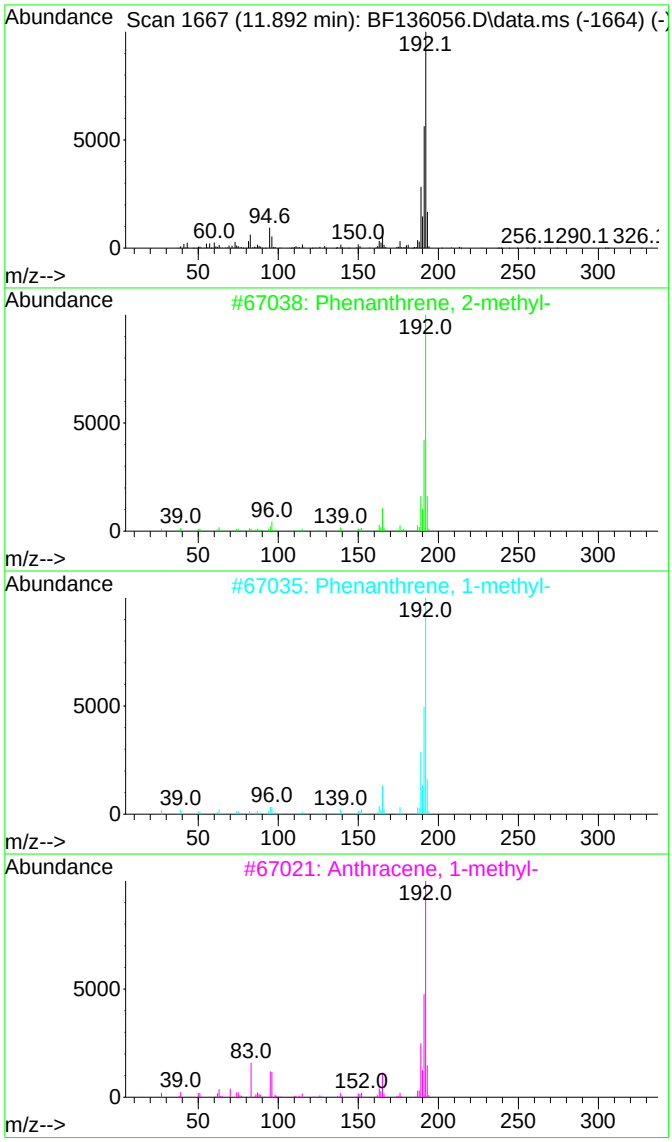
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

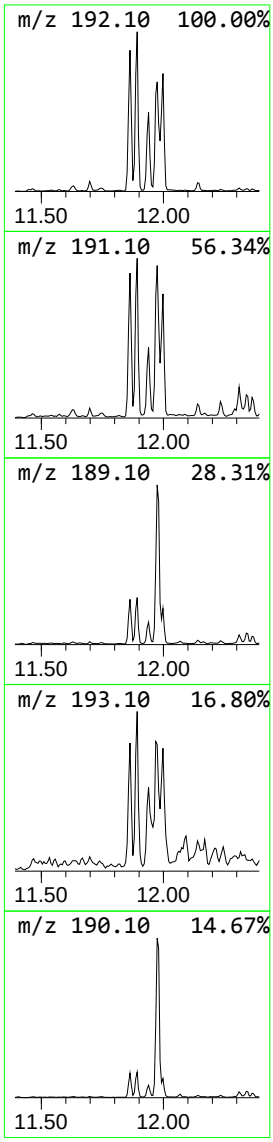
****

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.892	25.30 ng	1086600	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87





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Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

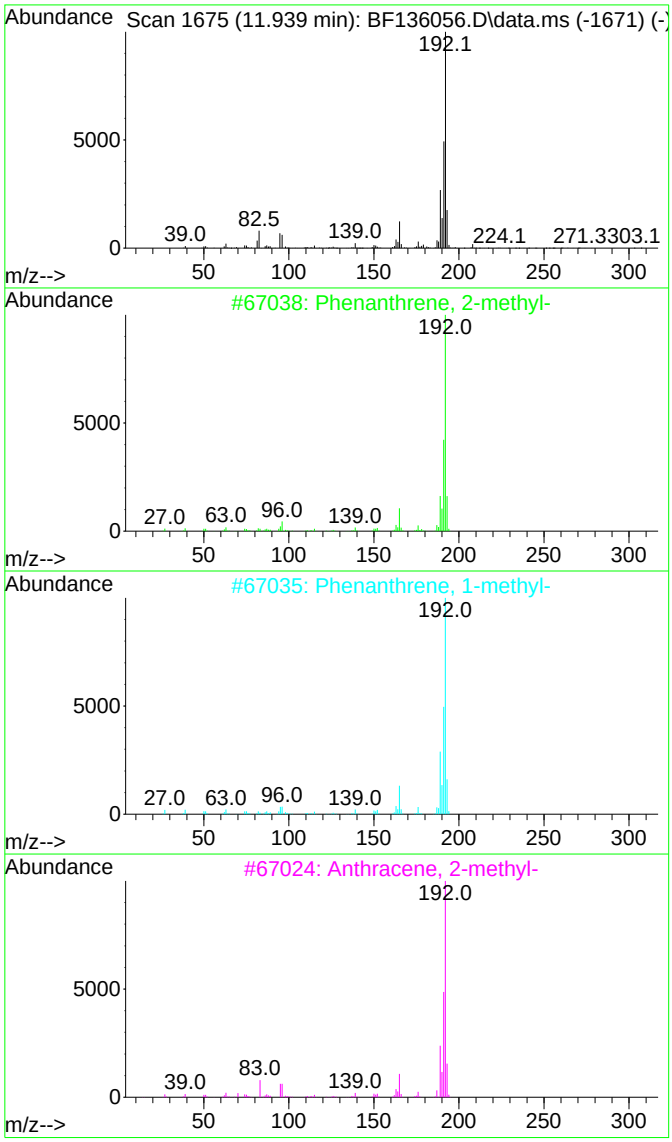
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

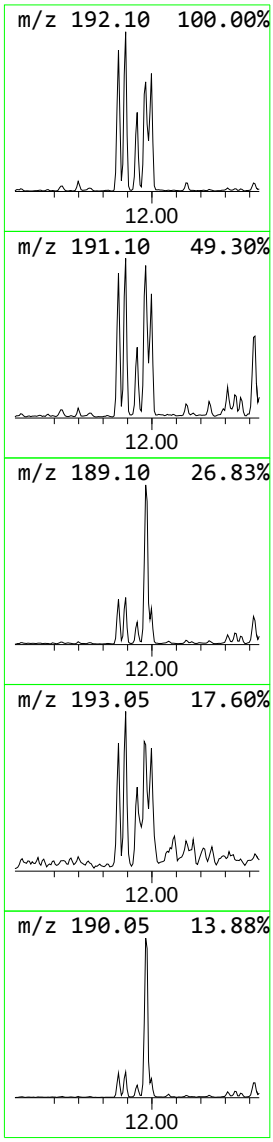
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.939	11.23 ng	482340	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





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Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

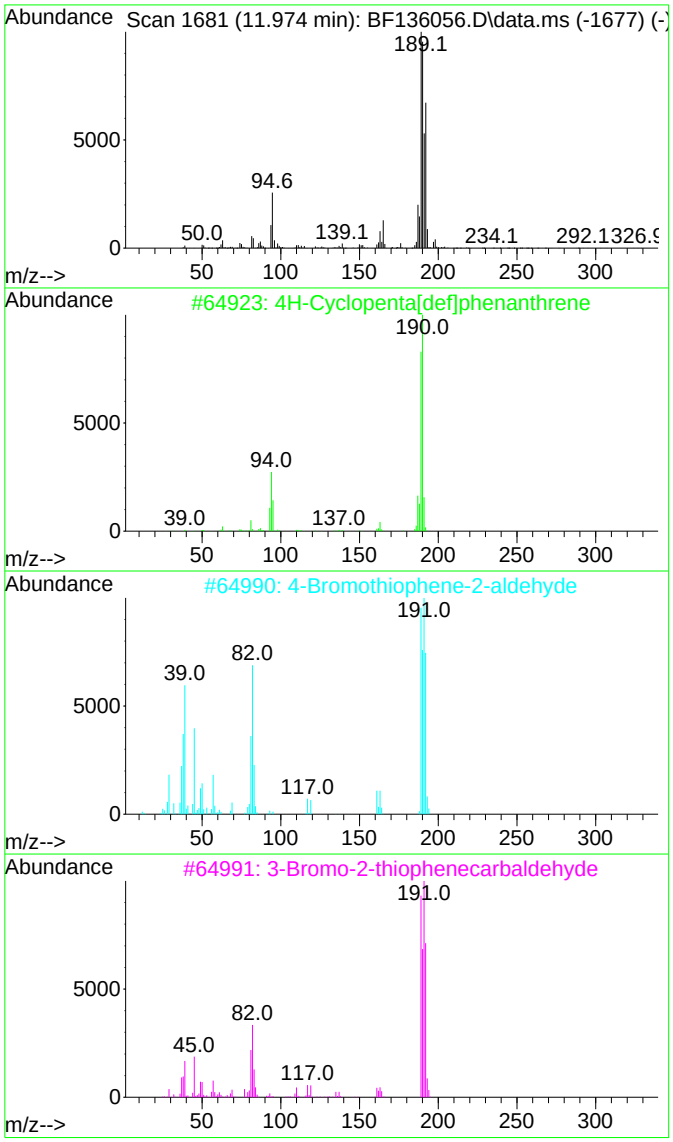
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

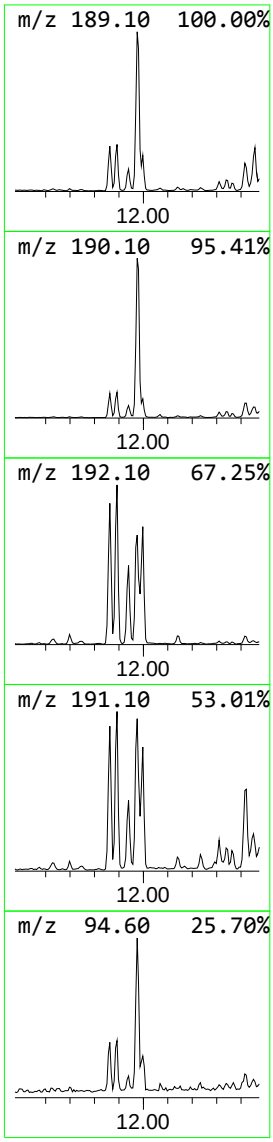
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.974	42.15 ng	1810480	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	4-Bromothiophene-2-aldehyde	190	C5H3BrOS	018791-75-8	52
3	3-Bromo-2-thiophenecarbaldehyde	190	C5H3BrOS	000930-96-1	50
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





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Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

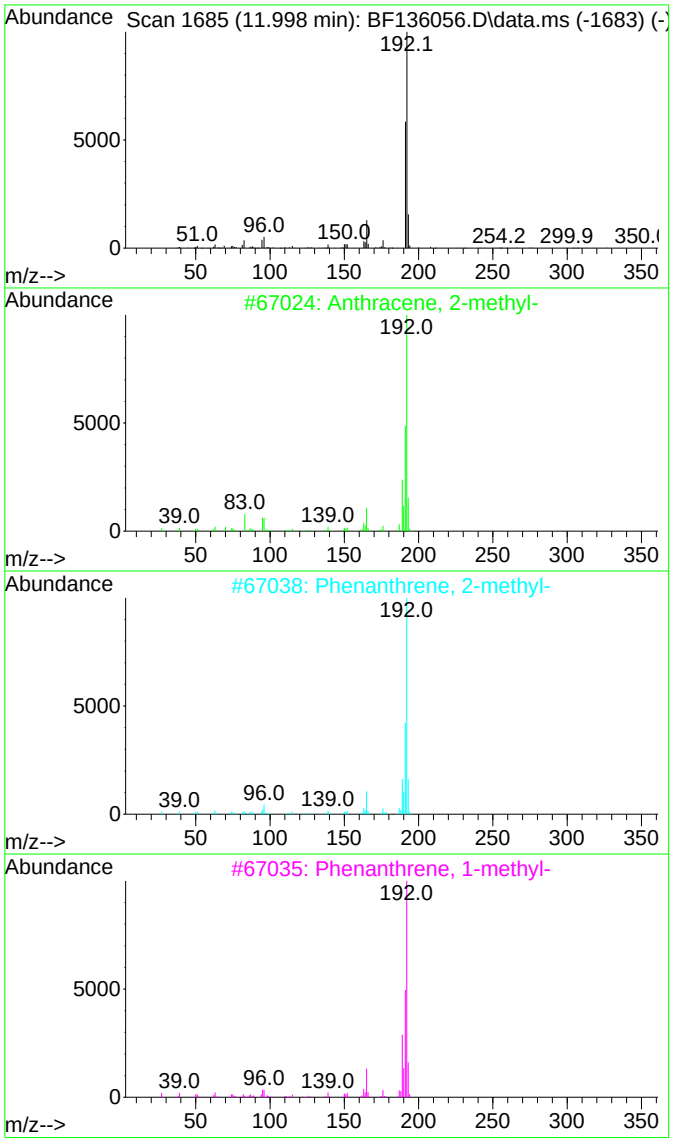
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

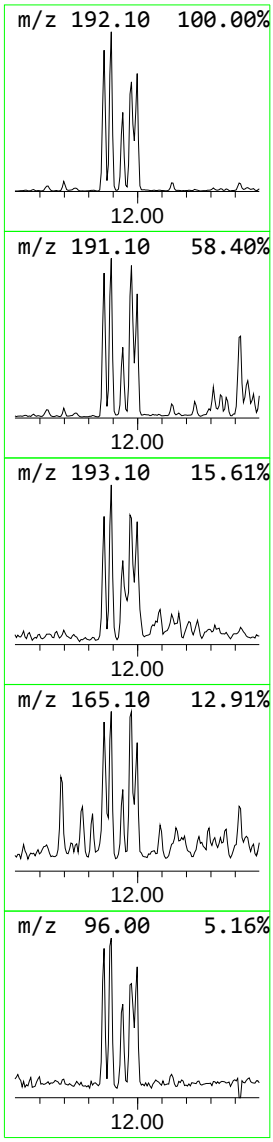
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Anthracene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.998	16.34 ng	701672	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





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Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

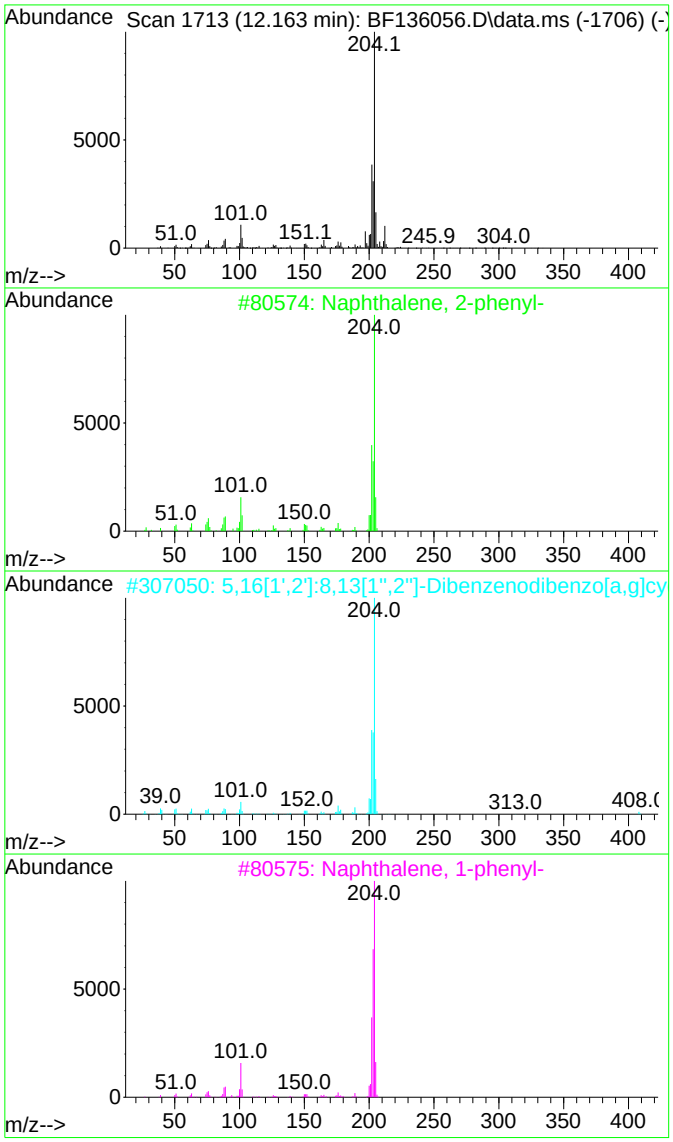
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

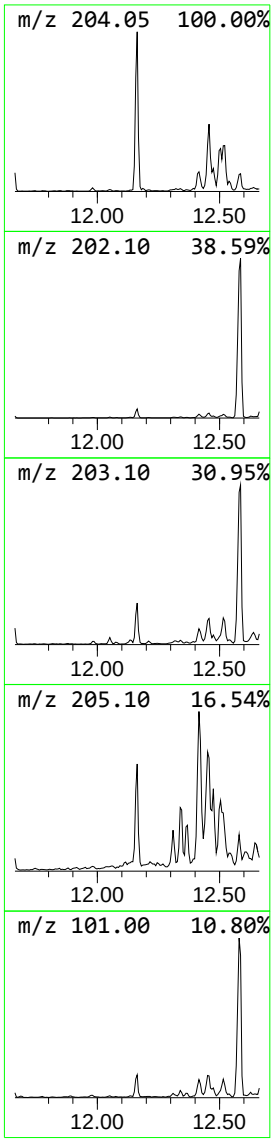
****

Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.163	20.74 ng	890973	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
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	78
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	70
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70





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Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

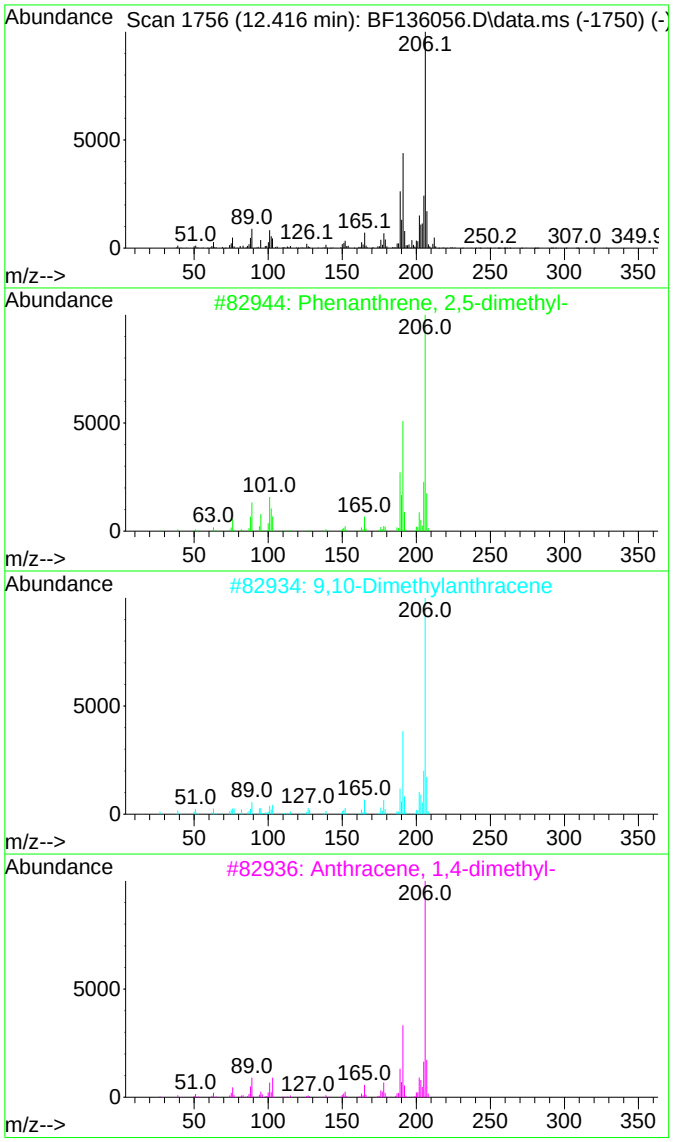
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

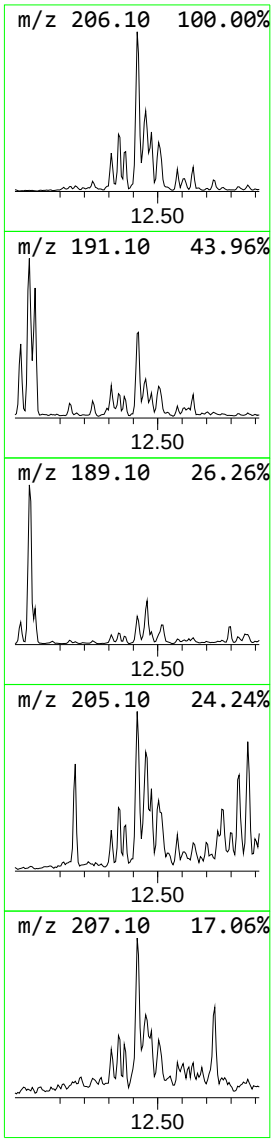
****

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.416	29.34 ng	1260100	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89





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Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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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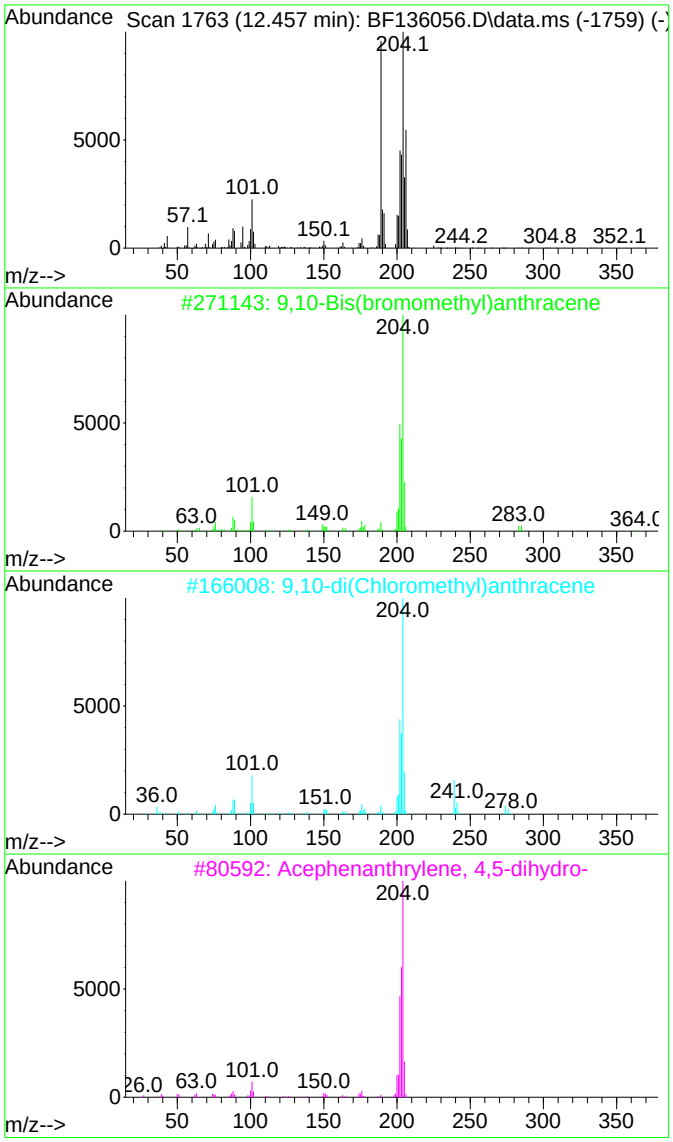
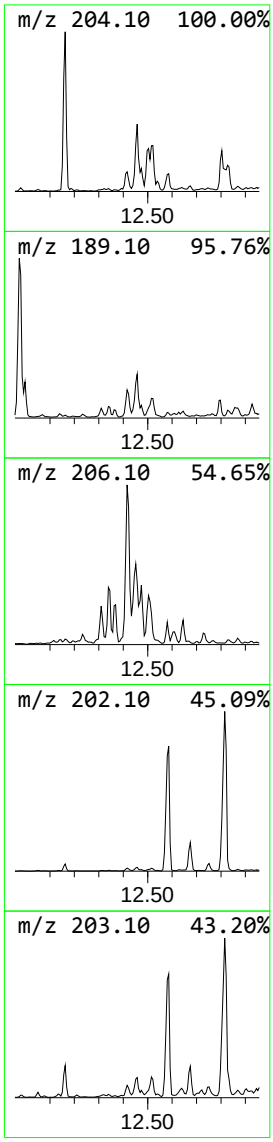
Peak Number 15 unknown12.457 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.457	22.41 ng	962409	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	49
3	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	46
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43





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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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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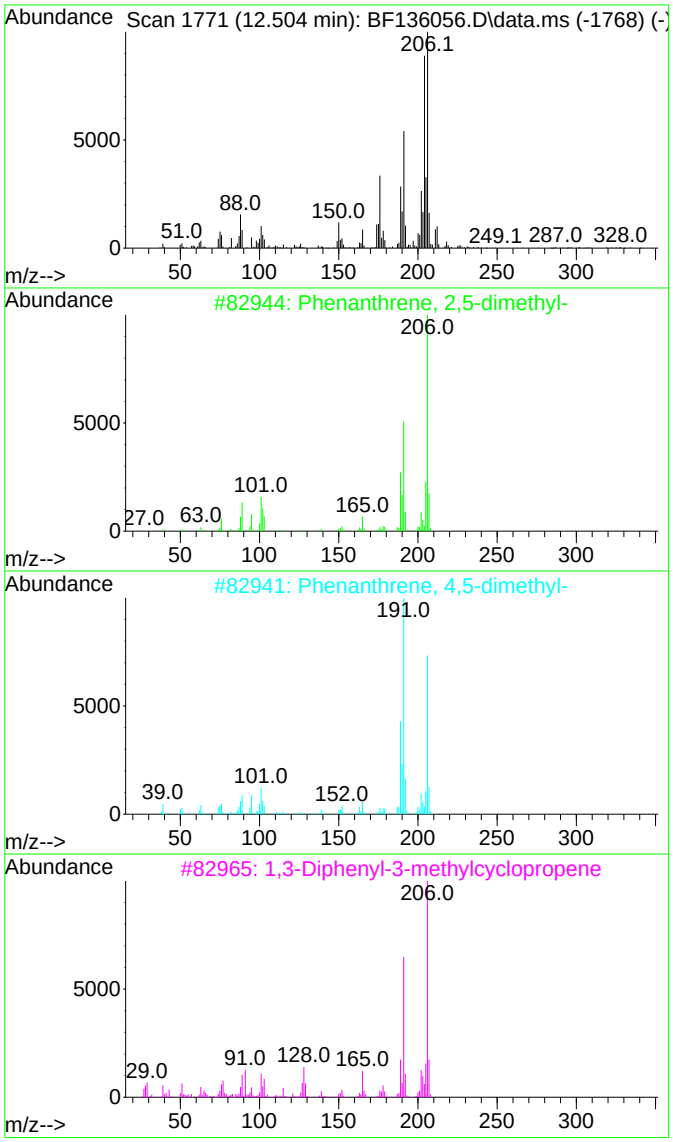
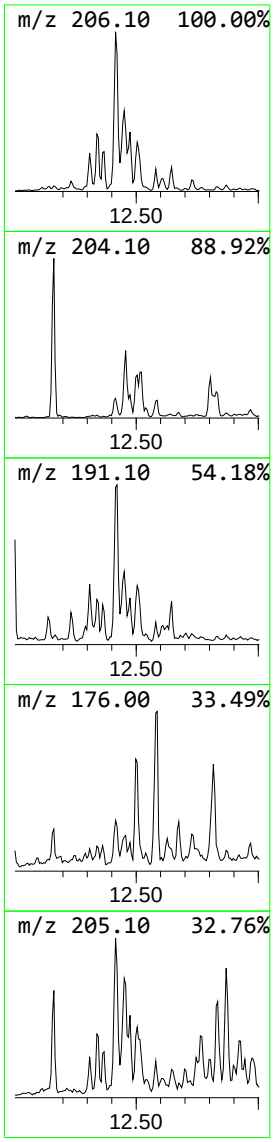
Peak Number 16 Phenanthrene, 4,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.504	15.73 ng	675464	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	89
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	86
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	70
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	70





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Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

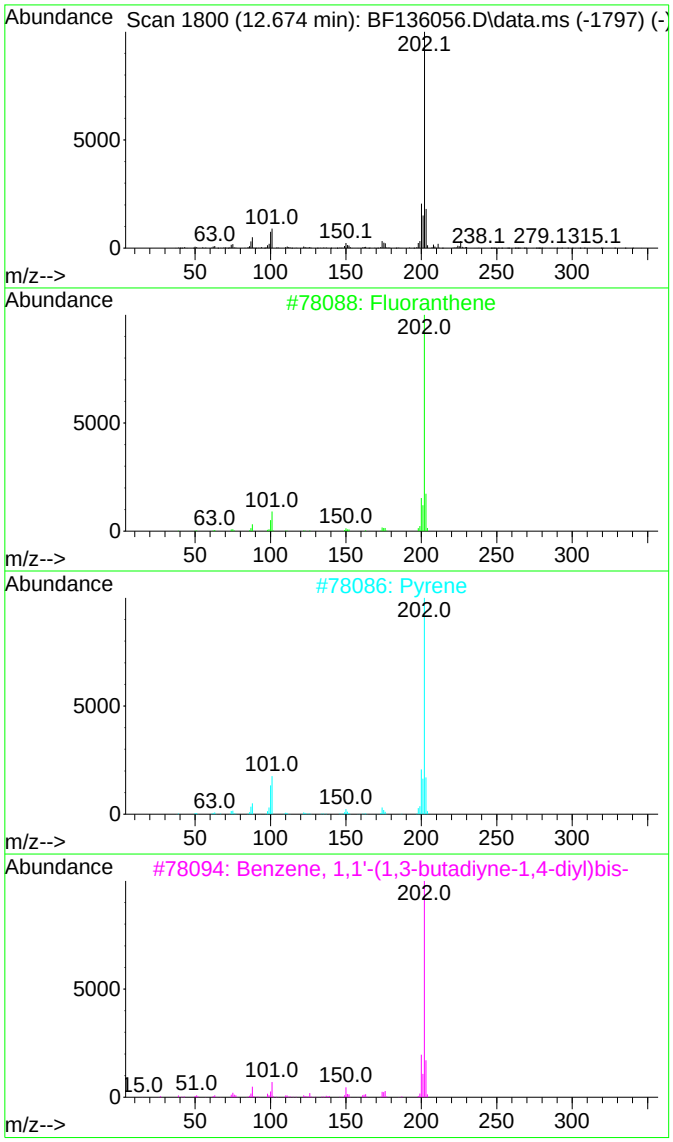
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

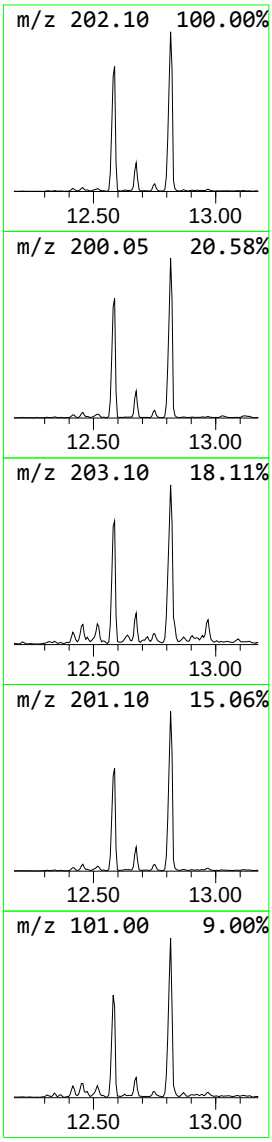
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.674	18.66 ng	801388	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	96
2	Pyrene	202	C16H10	000129-00-0	89
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	76
4	2-pyrazinol, 3-bromo-5,6-dimethyl-	202	C6H7BrN2O	1010396-05-3	38
5	Furan-2-one, 2,5-dihydro-5-(4-me...	202	C12H10O3	024962-84-3	38





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Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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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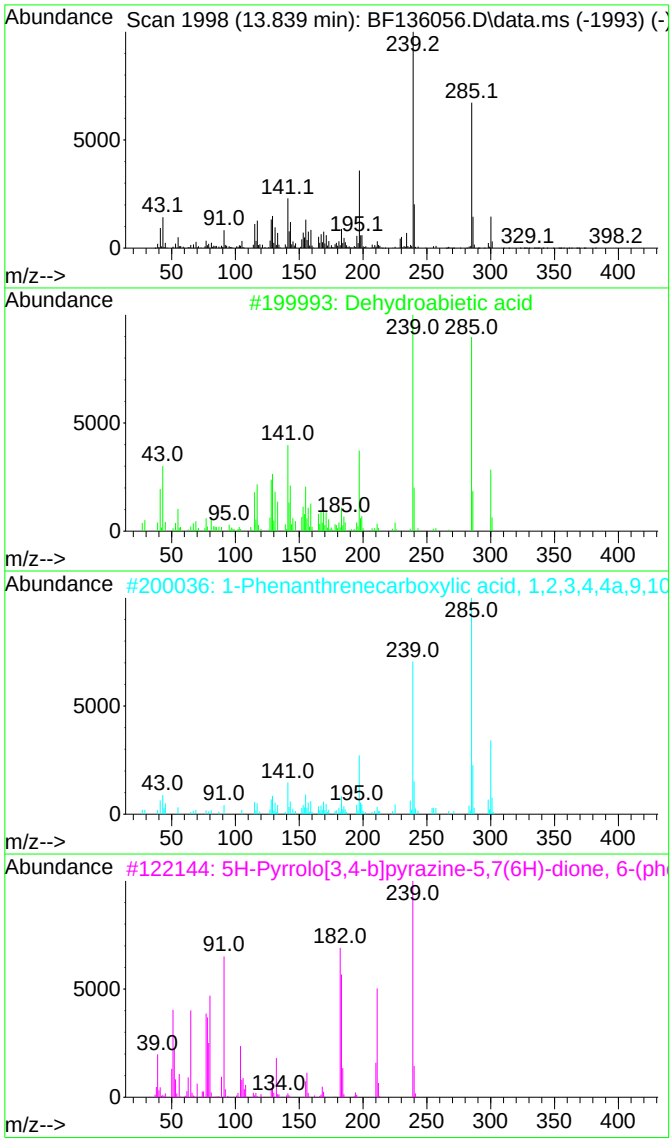
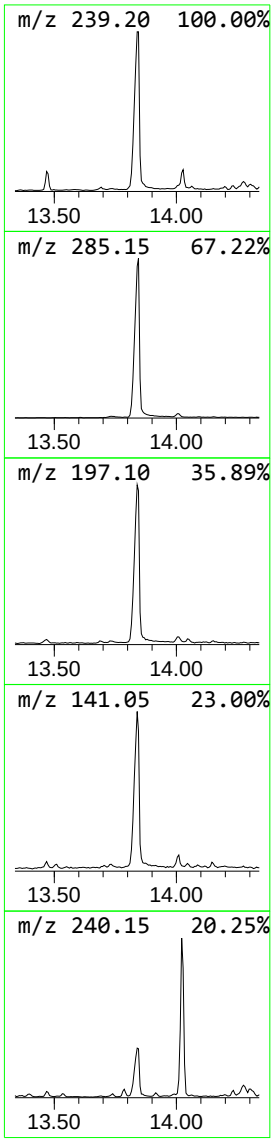
Peak Number 18 Dehydroabietic acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.839	17.76 ng	4350550	Chrysene-d12	14.021

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dehydroabietic acid	300	C20H28O2	001740-19-8	98
2	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	005155-70-4	93
3	5H-Pyrrolo[3,4-b]pyrazine-5,7(6H...	239	C13H9N3O2	500350-54-9	83
4	Indole, 3-imidazolo[2,1-b]thiazo...	239	C13H9N3S	292855-05-1	41
5	Cobalt, (.eta.5-2,4-cyclopentadi...	239	C14H12Co	088242-61-9	38





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Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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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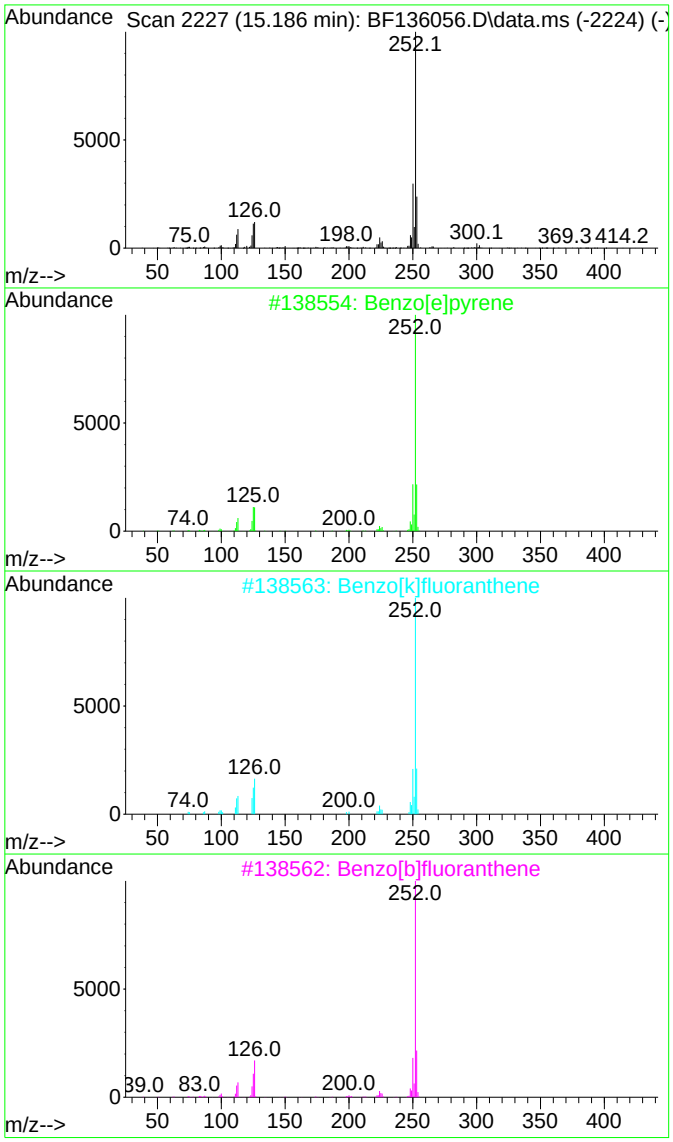
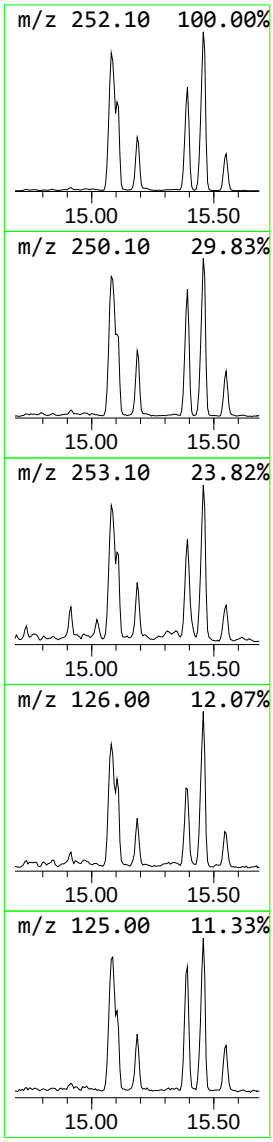
Peak Number 19 Benzo[e]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.186	15.90 ng	582726	Perylene-d12	15.515

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





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Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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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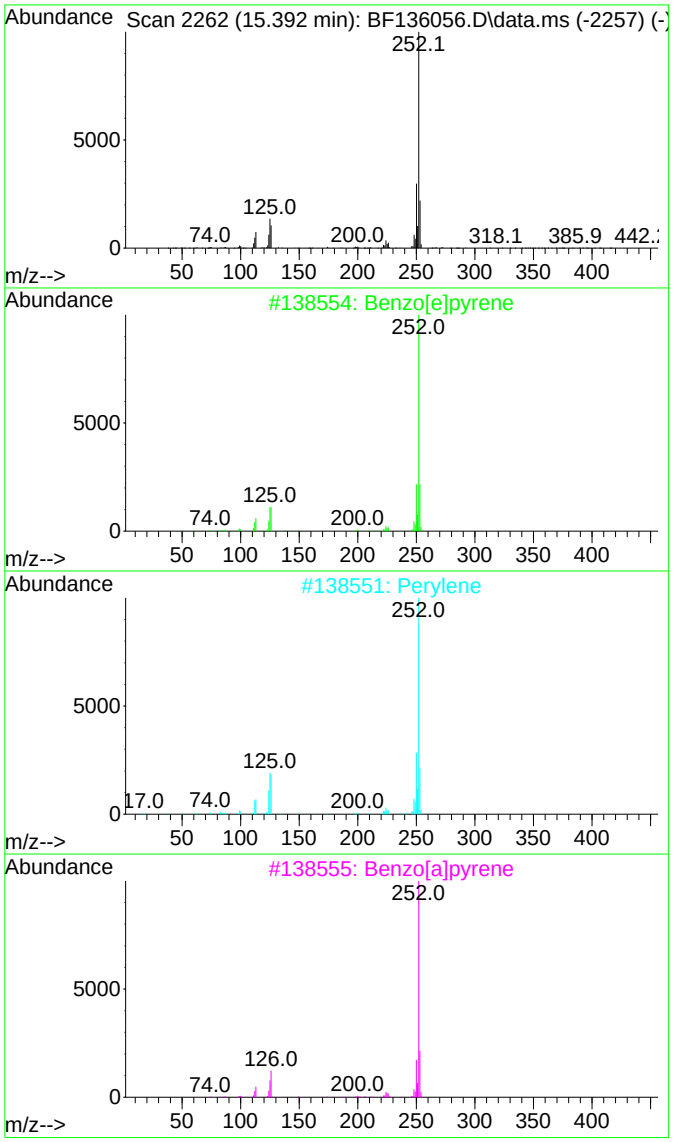
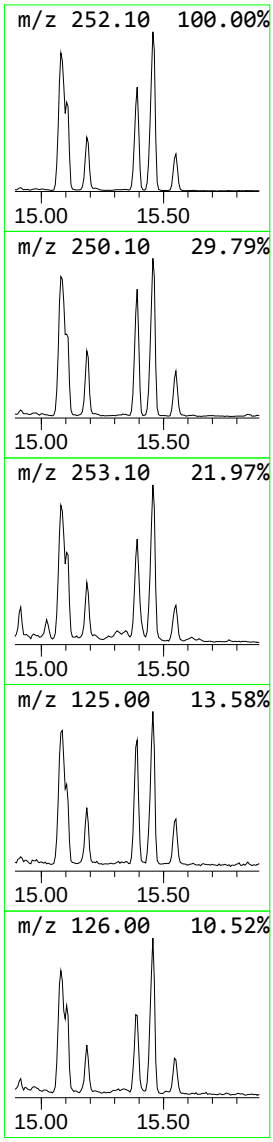
Peak Number 20 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.392	37.39 ng	1370210	Perylene-d12	15.515

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
Data File : BF136056.D
Acq On : 31 Oct 2023 17:34
Operator : CG\JU
Sample : 04805-06 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
M-1(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.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
(1S)-2,6,6-Trim...	6.110	20.9	ng	645534	1	6.822	619137	20.0
p-Cymene	6.904	29.9	ng	926600	1	6.822	619137	20.0
Naphthalene, 1,...	9.445	11.3	ng	391783	3	9.863	691348	20.0
Naphthalene, 2,...	9.522	11.7	ng	404823	3	9.863	691348	20.0
Dibenzothiophene	11.251	19.9	ng	852529	4	11.357	858990	20.0
4-Methylnaphtho...	11.686	13.2	ng	565632	4	11.357	858990	20.0
1-Methyldibenzo...	11.774	12.3	ng	528898	4	11.357	858990	20.0
Anthracene, 1-m...	11.863	22.9	ng	984549	4	11.357	858990	20.0
Phenanthrene, 2...	11.892	25.3	ng	1086600	4	11.357	858990	20.0
Phenanthrene, 1...	11.939	11.2	ng	482340	4	11.357	858990	20.0
4H-Cyclopenta[d...	11.974	42.1	ng	1810480	4	11.357	858990	20.0
Anthracene, 2-m...	11.998	16.3	ng	701672	4	11.357	858990	20.0
Naphthalene, 2-...	12.163	20.7	ng	890973	4	11.357	858990	20.0
Phenanthrene, 2...	12.416	29.3	ng	1260100	4	11.357	858990	20.0
unknown12.457	12.457	22.4	ng	962409	4	11.357	858990	20.0
Phenanthrene, 4...	12.504	15.7	ng	675464	4	11.357	858990	20.0
Benzene, 1,1'-(...	12.674	18.7	ng	801388	4	11.357	858990	20.0
Dehydroabietic ...	13.839	17.8	ng	4350550	5	14.021	4900430	20.0
Benzo[e]pyrene	15.186	15.9	ng	582726	6	15.515	732871	20.0
Perylene	15.392	37.4	ng	1370210	6	15.515	732871	20.0