LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

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-BF091123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF135674.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.957	485	488	505	rBV	266948	372577	17.05%	1.241%
2	5.369	555	558	575	rBV	1861769	2117496	96.89%	7.052%
3	6.387	728	731	758	rBV	2003398	2185359	100.00%	7.278%
4	6.740	787	791	798	rBV	689705	600305	27.47%	1.999%
5	7.304	883	887	900	rBV	1475983	1370506	62.71%	4.564%
6	8.016	1005	1008	1017	rBV	880624	744549	34.07%	2.480%
7	8.734	1128	1130	1135	rBV	45337	42871	1.96%	0.143%
8	8.834	1143	1147	1151	rVB2	40034	39546	1.81%	0.132%
9	9.092	1187	1191	1195	rBV	2296220	2136144	97.75%	7.114%
10	9.175	1200	1205	1207	rBV4	19778	23296	1.07%	0.078%
11	9.216	1207	1212	1215	rVV3	39497	42312	1.94%	0.141%
12	9.363	1234	1237	1241	rBV3	32929	47064	2.15%	0.157%
13	9.433	1245	1249	1251	rBV	48539	50592	2.32%	0.168%
14	9.551	1267	1269	1275	rBV2	24024	24656	1.13%	0.082%
15	9.639	1280	1284	1288	rBV2	54148	56088	2.57%	0.187%
16	9.775	1303	1307	1310	rBV	816553	674532	30.87%	2.246%
17	9.804	1310	1312	1316	rVB	115139	105445	4.83%	0.351%
18	9.880	1321	1325	1330	rBV5	20445	25809	1.18%	0.086%
19	9.928	1330	1333	1336	rBV4	21742	27413	1.25%	0.091%
20	9.980	1337	1342	1346	rVV2	50977	59828	2.74%	0.199%
21	10.022	1346	1349	1353	rVB4	32136	36255	1.66%	0.121%
22	10.092	1357	1361	1364	rBV2	35104	40751	1.86%	0.136%
23	10.175	1372	1375	1378	rBV5	22757	27881	1.28%	0.093%
24	10.204	1378	1380	1382	rVB2	34824	26501	1.21%	0.088%
25	10.328	1397	1401	1405	rBV	86439	87932	4.02%	0.293%
26	10.486	1425	1428	1431	rVB2	27106	28660	1.31%	0.095%
27	10.569	1439	1442	1453	rVB	1129228	1034520	47.34%	3.445%
28	10.692	1458	1463	1470	rVB3	58229	85172	3.90%	0.284%
29	10.845	1486	1489	1491	rBV2	24867	23380	1.07%	0.078%
30	10.875	1491	1494	1497	rVV3	23702	34289	1.57%	0.114%
31	11.010	1512	1517	1519	rBV	48778	57668	2.64%	0.192%
32	11.080	1527	1529	1532	rVB	30170	25823	1.18%	0.086%
33	11.127	1532	1537	1540	rBV4	26570	33517	1.53%	0.112%
34	11.163	1540	1543	1547	rVB2	87820	88661	4.06%	0.295%
35	11.216	1549	1552	1557	rVB	181627	142098	6.50%	0.473%
36	11.269	1557	1561	1563	rBV	745472	630567	28.85%	2.100%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

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-BF091123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.292	1563	1565	1569	rVV	1102509	881528	40.34%	2.936%
38	11.345	1571	1574	1577	rVV	269313	227076	10.39%	0.756%
39	11.369	1577	1578	1586	rVB4	64490	62037	2.84%	0.207%
40	11.492	1596	1599	1601	rBV	105190	110208	5.04%	0.367%
41	11.510	1601	1602	1609	rVV	79189	83419	3.82%	0.278%
42	11.563	1609	1611	1613	rVV	47998	35778	1.64%	0.119%
43	11.604	1615	1618	1624	rVB3	37556	51948	2.38%	0.173%
44	11.686	1629	1632	1637	rVB3	25335	32079	1.47%	0.107%
45	11.774	1643	1647	1649	rBV	144355	133020	6.09%	0.443%
46	11.804	1649	1652	1657	rVV	320749	289972	13.27%	0.966%
47	11.851	1657	1660	1663	rVV	68107	65444	2.99%	0.218%
48	11.886	1663	1666	1668	rVV	287138	278417	12.74%	0.927%
49	11.910	1668	1670	1674	rVB	106473	84961	3.89%	0.283%
50	11.969	1676	1680	1682	rBV3	27097	30935	1.42%	0.103%
51	12.069	1694	1697	1701	rBV	114126	105808	4.84%	0.352%
52	12.110	1701	1704	1707	rVB2	76646	69859	3.20%	0.233%
53	12.222	1721	1723	1726	rVB2	27476	22765	1.04%	0.076%
54	12.251	1726	1728	1730	rBV2	45168	36237	1.66%	0.121%
55	12.280	1730	1733	1737	rVB2	37262	35825	1.64%	0.119%
56	12.327	1737	1741	1744	rBV	115646	123359	5.64%	0.411%
57	12.363	1744	1747	1749	rVV3	61084	60897	2.79%	0.203%
58	12.386	1749	1751	1753	rVB2	40939	30030	1.37%	0.100%
59	12.422	1753	1757	1760	rBV2	106459	125558	5.75%	0.418%
60	12.492	1765	1769	1773	rBV	2058920	1963006	89.83%	6.537%
61	12.557	1778	1780	1783	rVB3	33480	31042	1.42%	0.103%
62	12.592	1783	1786	1791	rBV4	40300	57574	2.63%	0.192%
63	12.645	1791	1795	1797	rBV	95570	90253	4.13%	0.301%
64	12.727	1802	1809	1813	rBV	1719502	2038424	93.28%	6.789%
65	12.774	1813	1817	1822	rVB2	88945	116594	5.34%	0.388%
66	12.863	1825	1832	1835	rBV	1738507	1725929	78.98%	5.748%
67	12.886	1835	1836	1841	rVB	49948	46465	2.13%	0.155%
68	12.945	1841	1846	1850	rBV2	103768	190245	8.71%	0.634%
69	13.033	1857	1861	1862	rBV3	103541	125378	5.74%	0.418%
70	13.051	1862	1864	1868	rVB	179096	178029	8.15%	0.593%
71	13.098	1869	1872	1873	rBV	41915	32109	1.47%	0.107%
72	13.121	1873	1876	1878	rVB	121903	94163	4.31%	0.314%
73	13.157	1878	1882	1884	rBV2	159712	175377	8.03%	0.584%
74	13.216	1890	1892	1895	rBV3	30049	23382	1.07%	0.078%
75	13.251	1895	1898	1901	rBV	111083	88369	4.04%	0.294%
76	13.280	1901	1903	1907	rBV	92497	94646	4.33%	0.315%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

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-BF091123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	13.439	1926	1930	1932	rBV3	60462	71939	3.29%	0.240%
78	13.574	1950	1953	1956	rBV	140718	118327	5.41%	0.394%
79	13.680	1968	1971	1973	rBV2	177245	153492	7.02%	0.511%
80	13.704	1973	1975	1977	rVB	116513	85813	3.93%	0.286%
81	13.733	1977	1980	1982	rBV	124405	132806	6.08%	0.442%
82	13.786	1987	1989	1995	rVB2	165042	158806	7.27%	0.529%
83	13.851	1995	2000	2006	rBV2	91196	204082	9.34%	0.680%
84	13.921	2006	2012	2016	rBV2	971639	1458110	66.72%	4.856%
85	13.957	2016	2018	2022	rVB	752669	658422	30.13%	2.193%
86	14.039	2029	2032	2035	rVB	184820	160215	7.33%	0.534%
87	14.092	2038	2041	2047	rBV5	99880	132981	6.09%	0.443%
88	14.286	2072	2074	2076	rBV2	43184	39259	1.80%	0.131%
89	14.321	2078	2080	2083	rVB	103758	98425	4.50%	0.328%
90	14.357	2084	2086	2089	rBV	60031	43433	1.99%	0.145%
91	14.398	2091	2093	2096	rVB3	60477	58250	2.67%	0.194%
92	14.821	2163	2165	2169	rBV2	76887	72414	3.31%	0.241%
93	14.980	2188	2192	2195	rBV	557041	833323	38.13%	2.775%
94	15.086	2207	2210	2214	rBV	123786	147751	6.76%	0.492%
95	15.280	2239	2243	2249	rVB	314926	368055	16.84%	1.226%
96	15.345	2250	2254	2259	rVV	485268	564334	25.82%	1.879%
97	15.404	2260	2264	2267	rVV	322195	405344	18.55%	1.350%
98	15.439	2267	2270	2277	rVB	146680	201104	9.20%	0.670%
99	16.898	2513	2518	2525	rBV2	166807	321229	14.70%	1.070%
100	17.351	2590	2595	2605	rVB	165318	341163	15.61%	1.136%

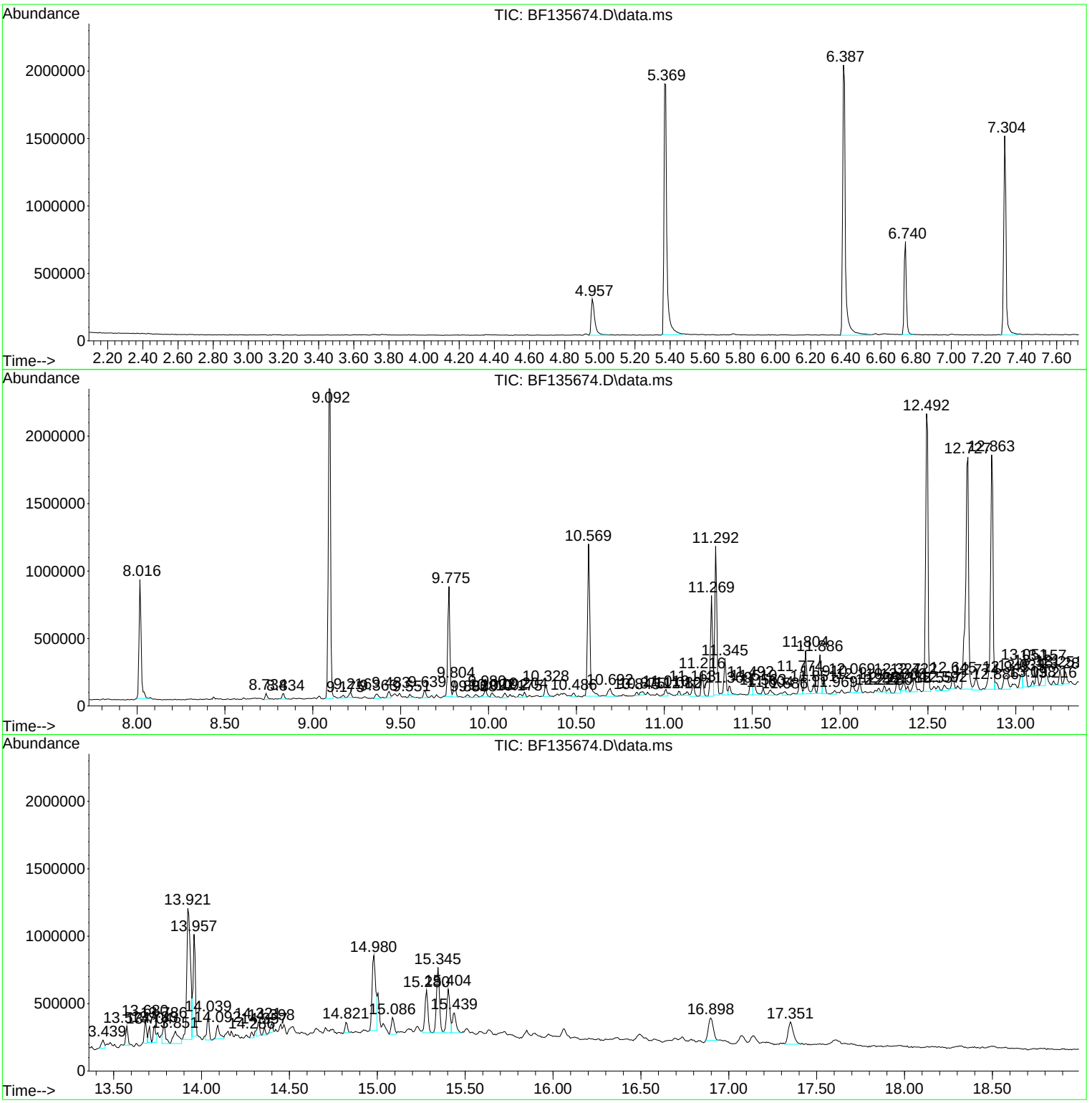
Sum of corrected areas: 30027285

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.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\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

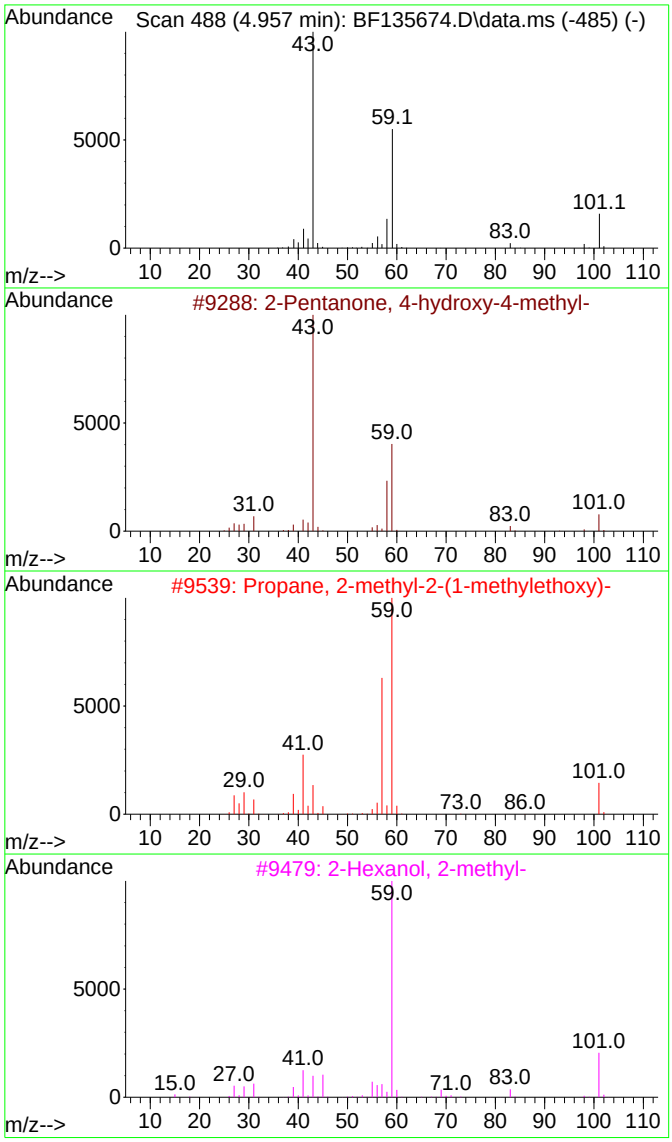
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

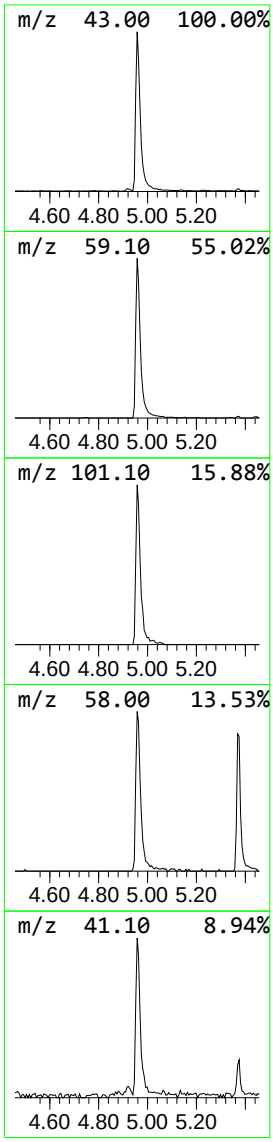
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.957	12.41 ng	372577	1,4-Dichlorobenzene-d4	6.740

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

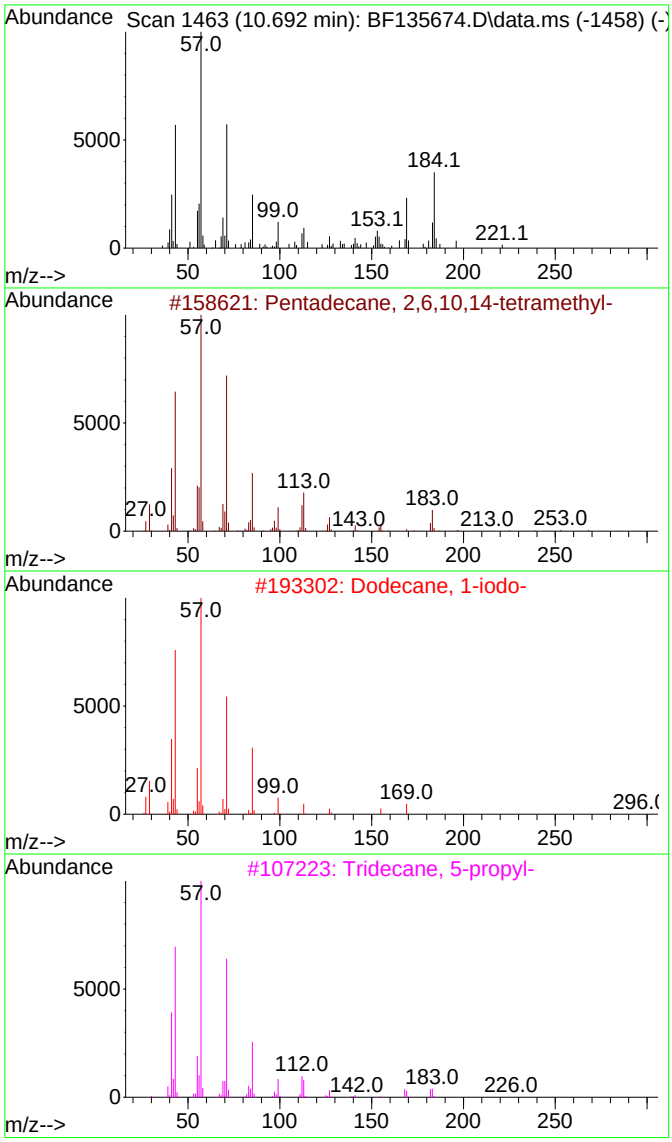
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

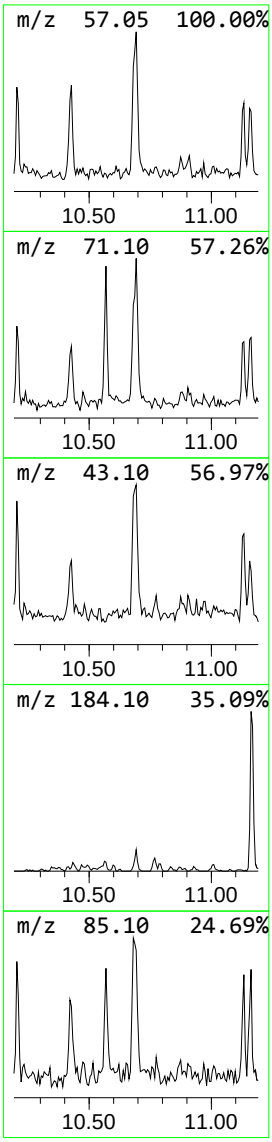
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Pentadecane, 2,6,10,14-tetr... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.692	2.70 ng	85172	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	50
2	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	47
3	Tridecane, 5-propyl-	226	C16H34	055045-11-9	47
4	Decane, 2-methyl-	156	C11H24	006975-98-0	47
5	4-Imidazolidinone, 2,2-dimethyl-...	169	C8H15N3O	142071-78-1	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

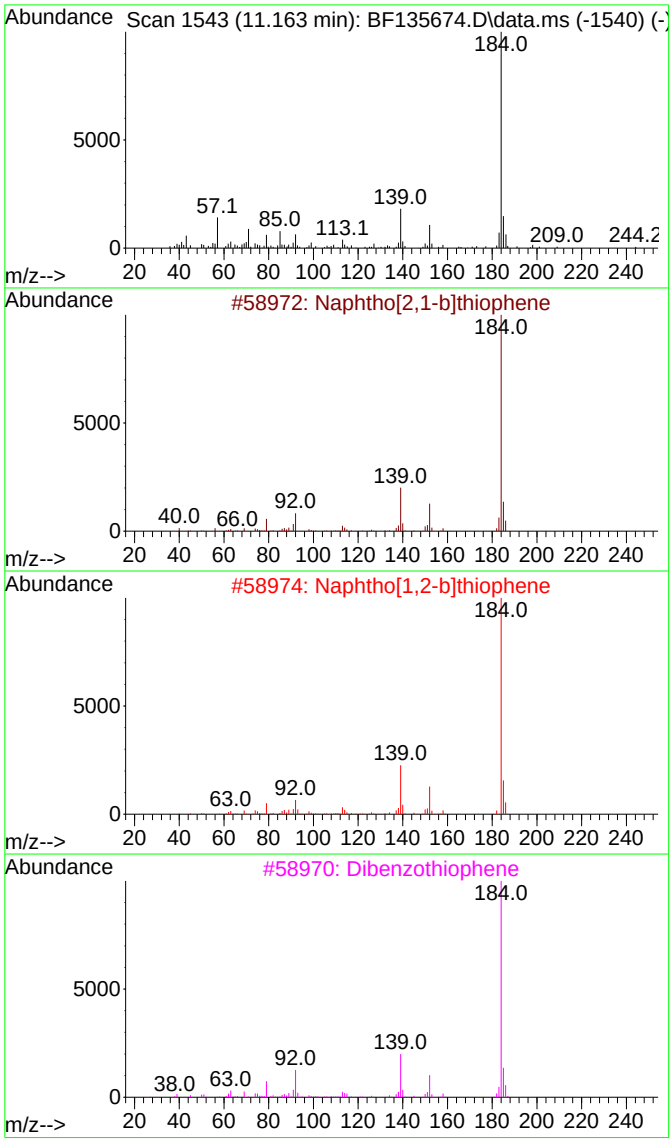
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

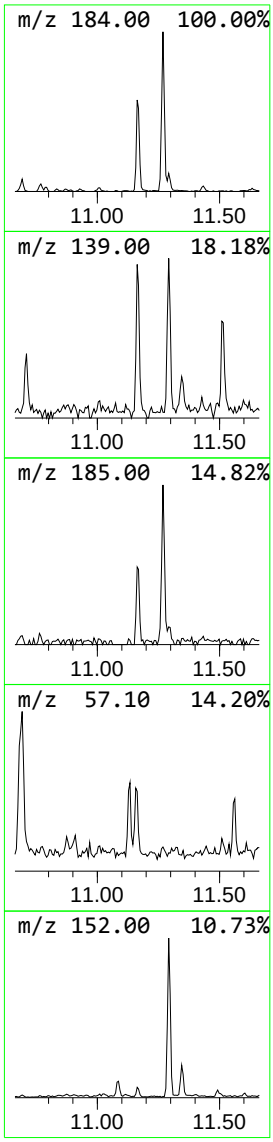
****

Peak Number 3 Naphtho[2,1-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.163	2.81 ng	88661	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

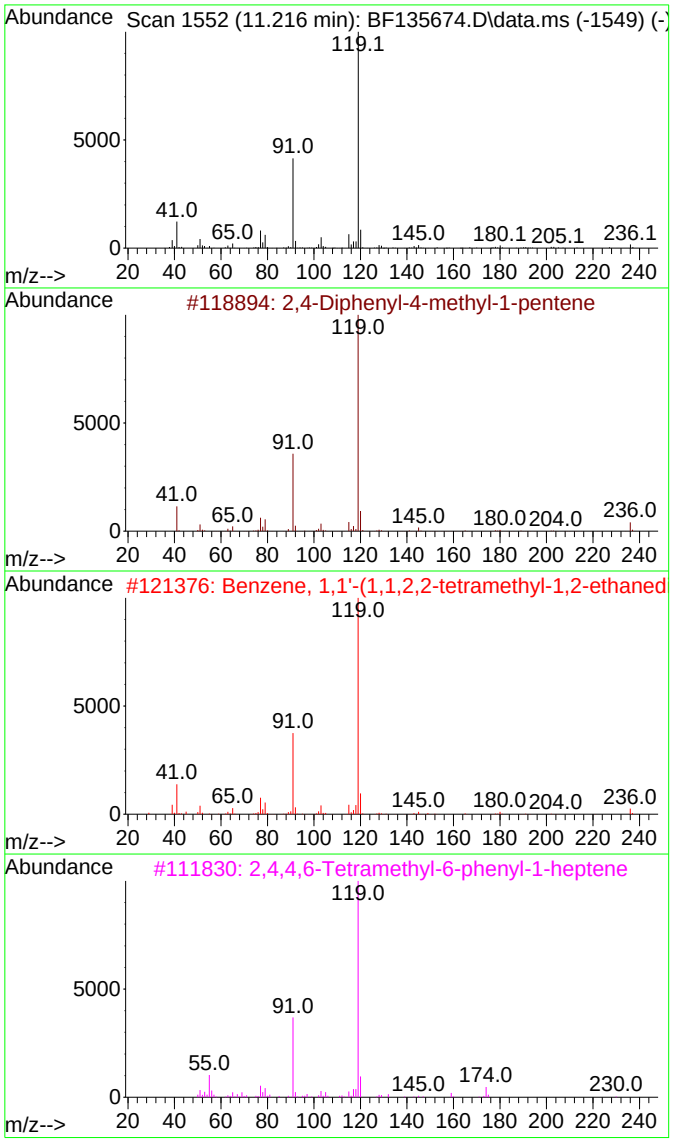
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

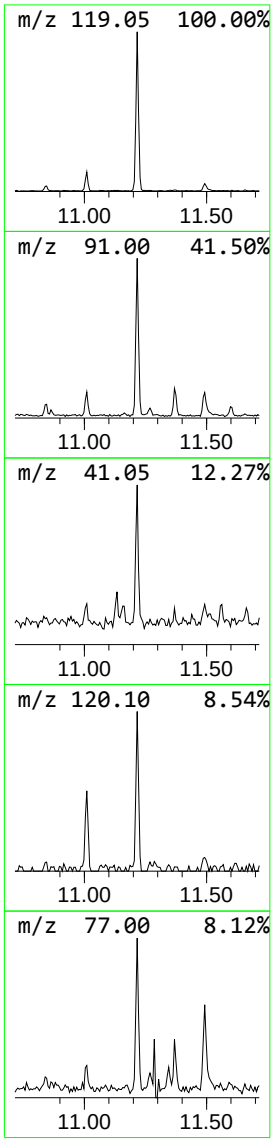
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 2,4-Diphenyl-4-methyl-1-pen... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	4.51 ng	142098	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Diphenyl-4-methyl-1-pentene	236	C18H20	1000111-58-0	90
2	Benzene, 1,1'-(1,1,2,2-tetrameth...	238	C18H22	001889-67-4	90
3	2,4,4,6-Tetramethyl-6-phenyl-1-h...	230	C17H26	1000293-27-9	72
4	o-Cymene	134	C10H14	000527-84-4	72
5	Cyclohexanone, 5-methyl-2-(1-met...	230	C16H22O	097275-48-4	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

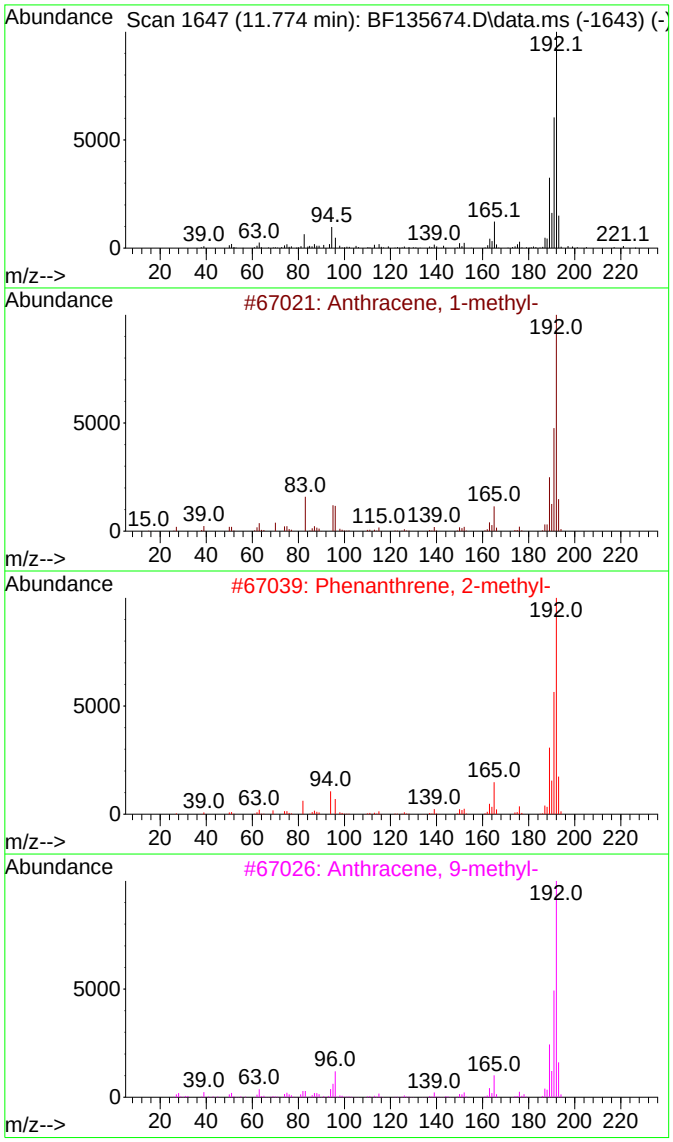
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

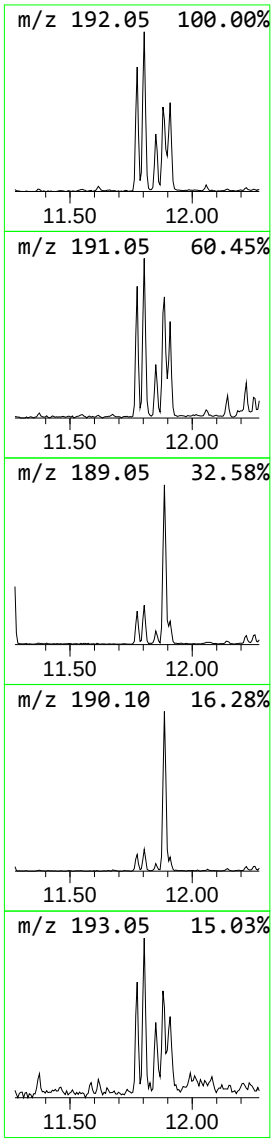
****

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.775	4.22 ng	133020	Phenanthrene-d10	11.269

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

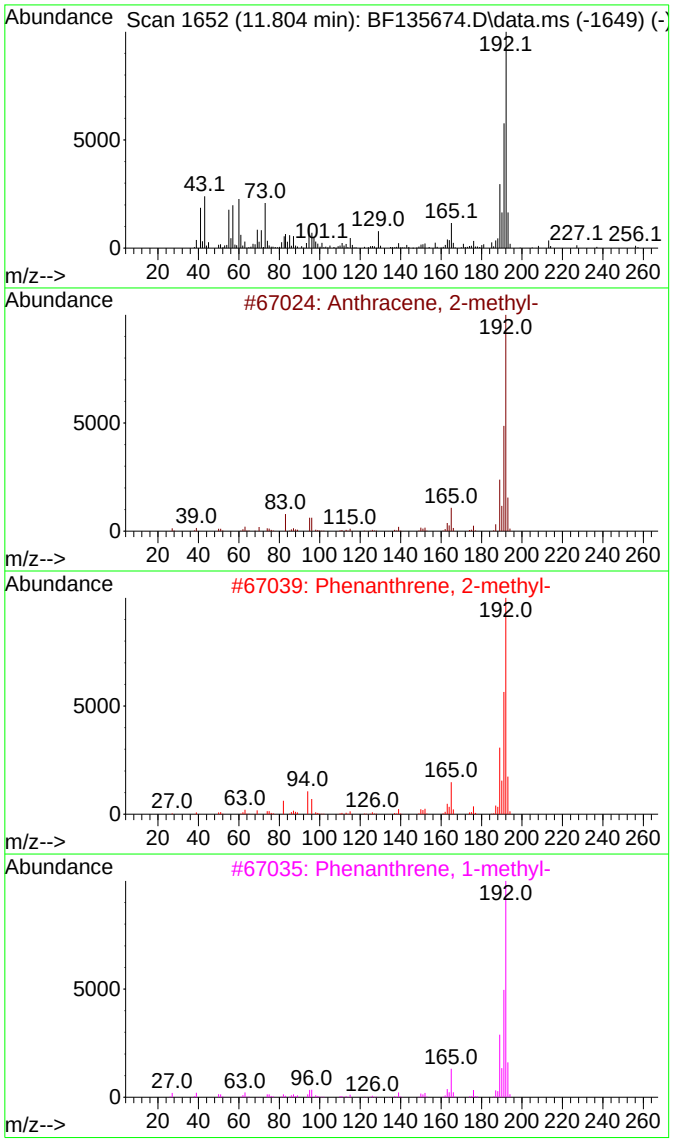
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

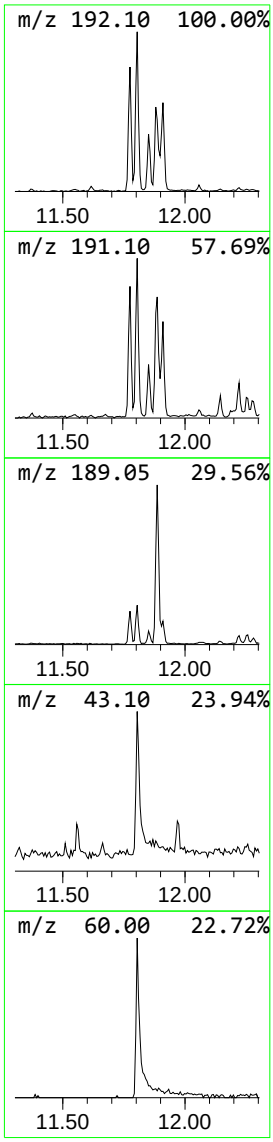
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.804	9.20 ng	289972	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

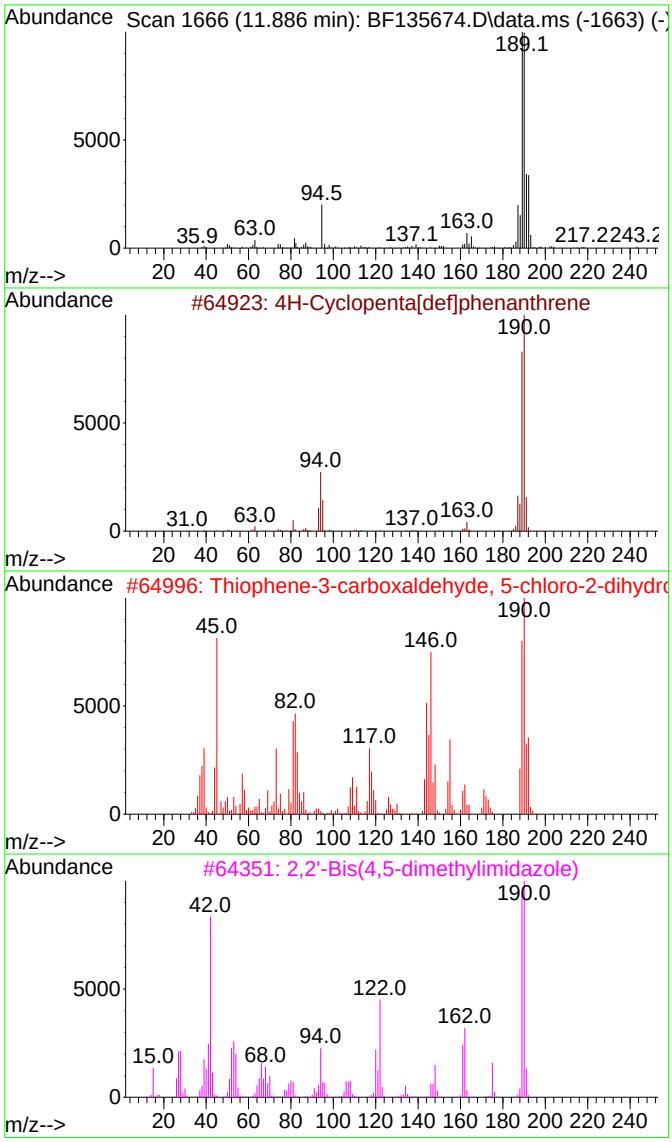
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

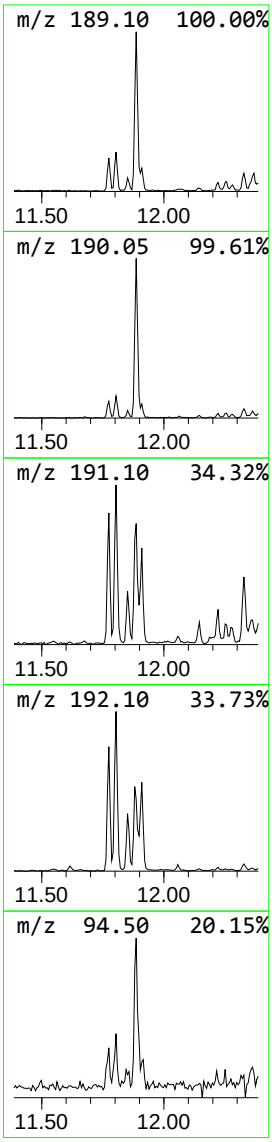
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.886	8.83 ng	278417	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
5	Cyclohexanone, 2-(2-furanylmethy...	190	C12H14O2	056053-07-7	22





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

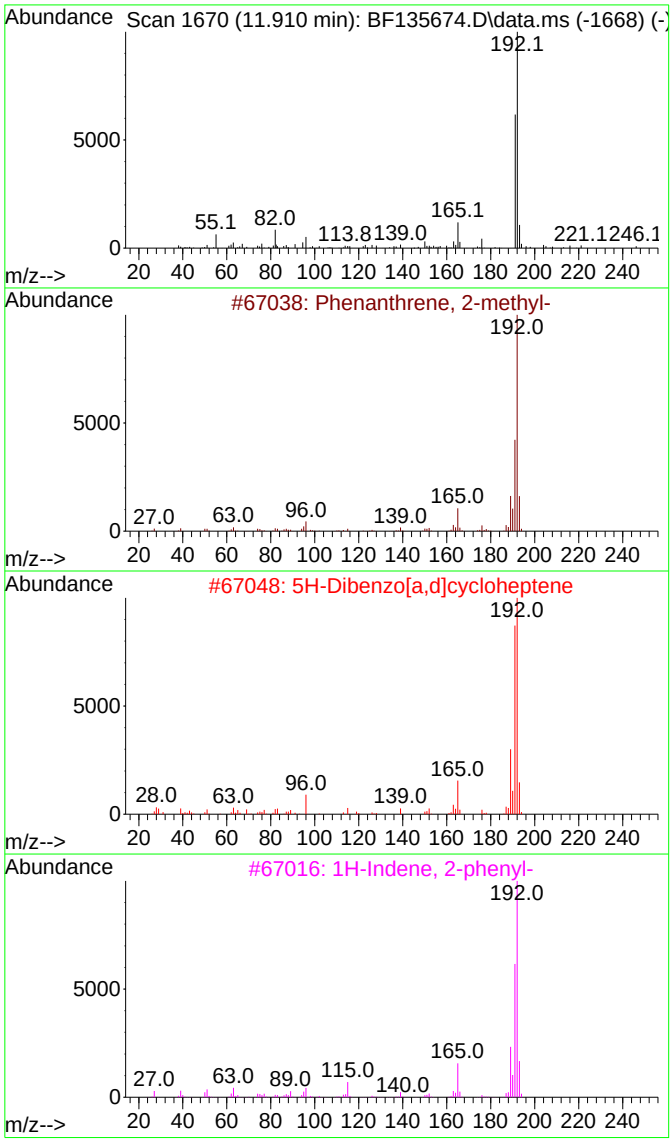
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

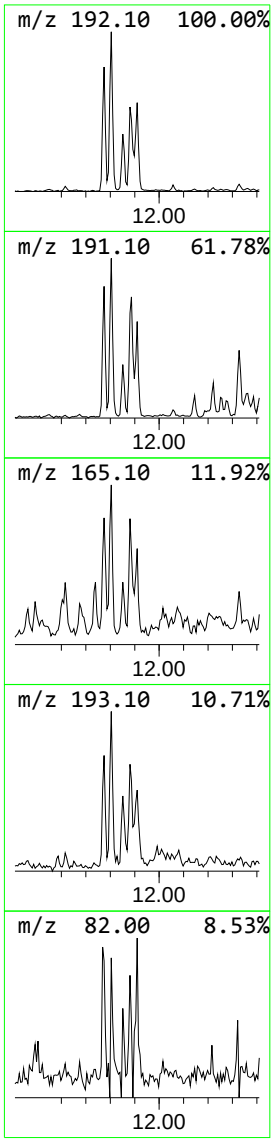
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.910	2.69 ng	84961	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	80
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	74
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	72
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

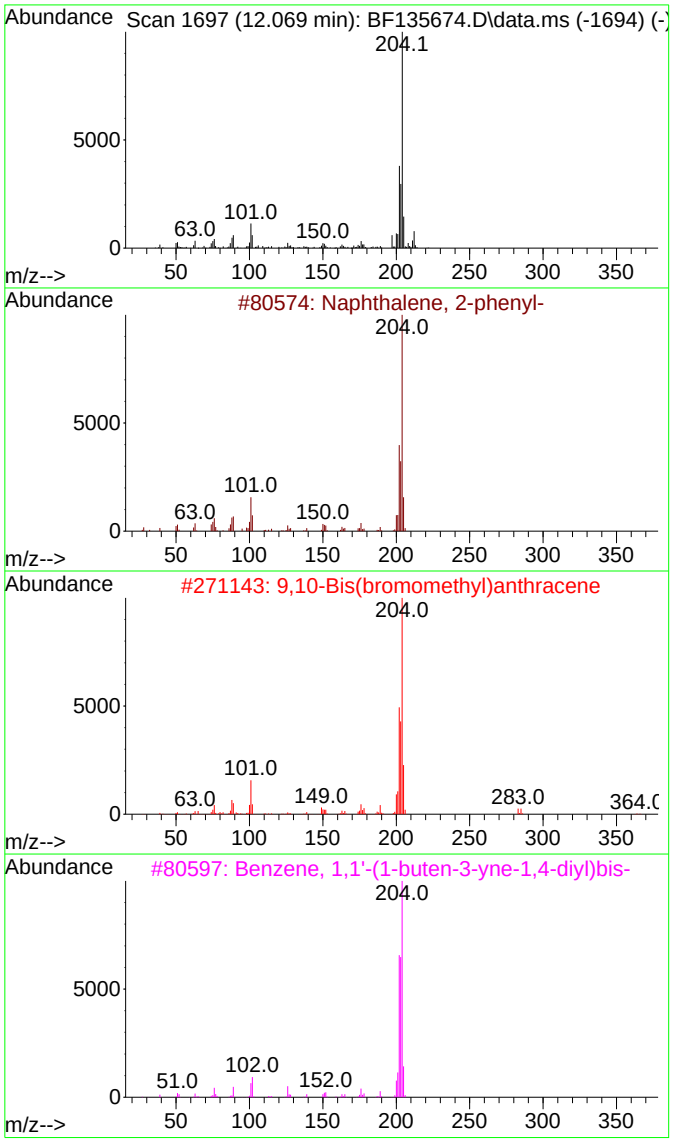
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

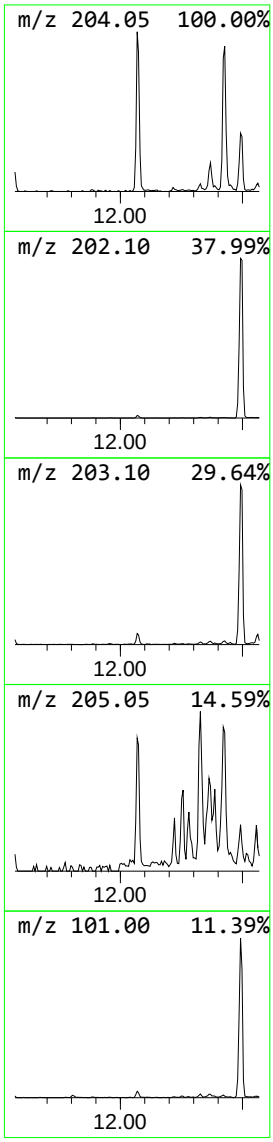
****

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.069	3.36 ng	105808	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
3	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	52
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	49
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

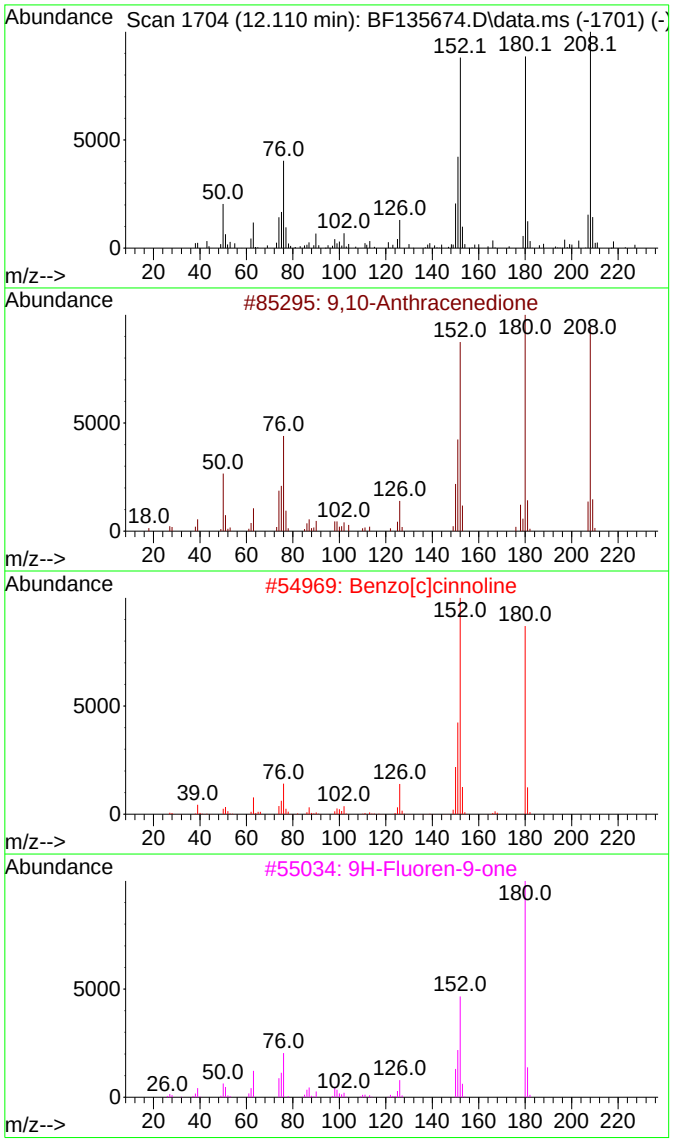
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

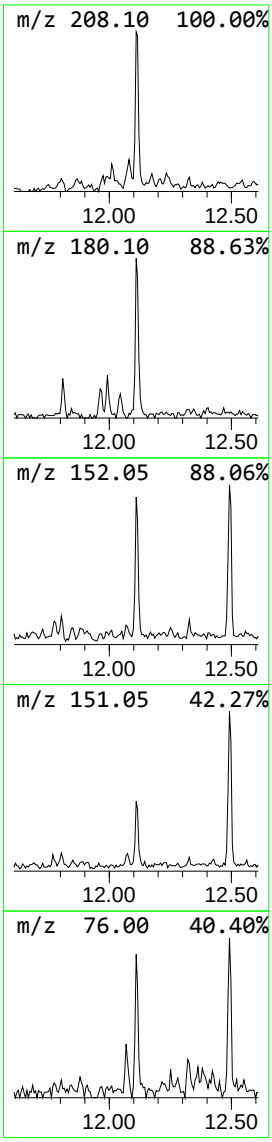
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.110	2.22 ng	69859	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	92
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	60
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

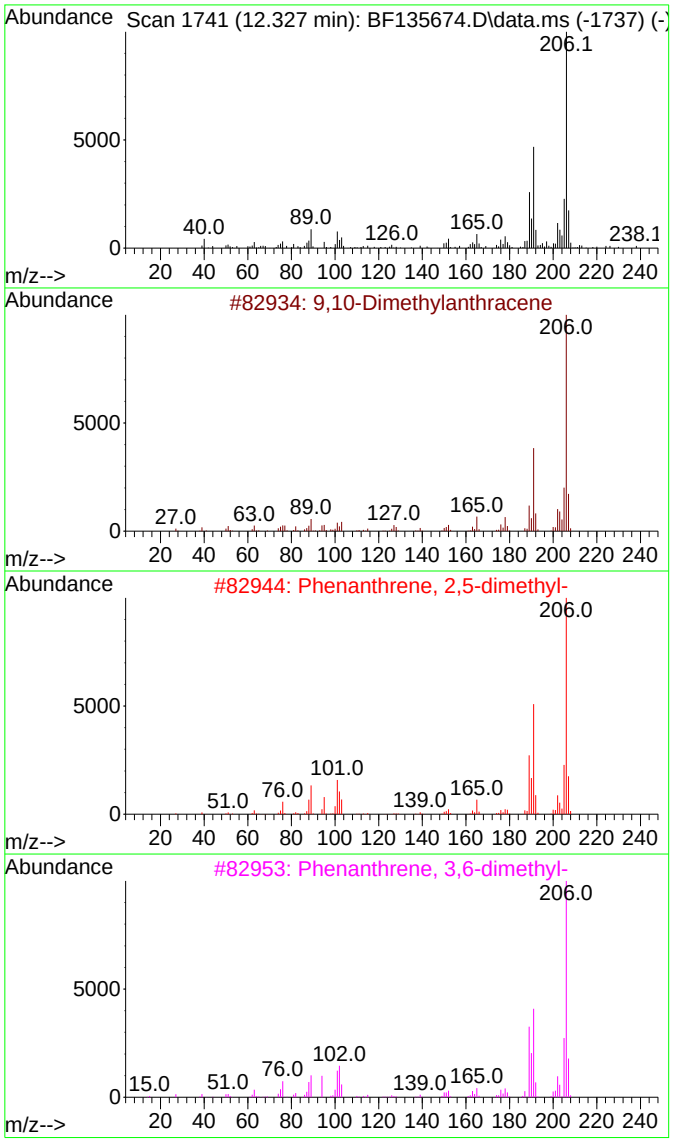
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

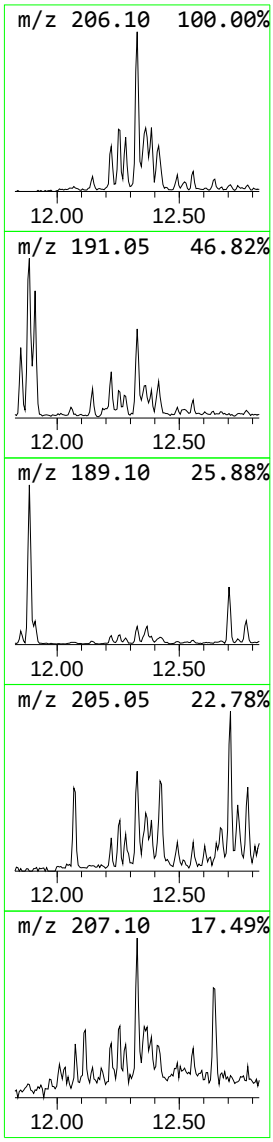
****

Peak Number 11 9,10-Dimethylanthracene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.327	3.91 ng	123359	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

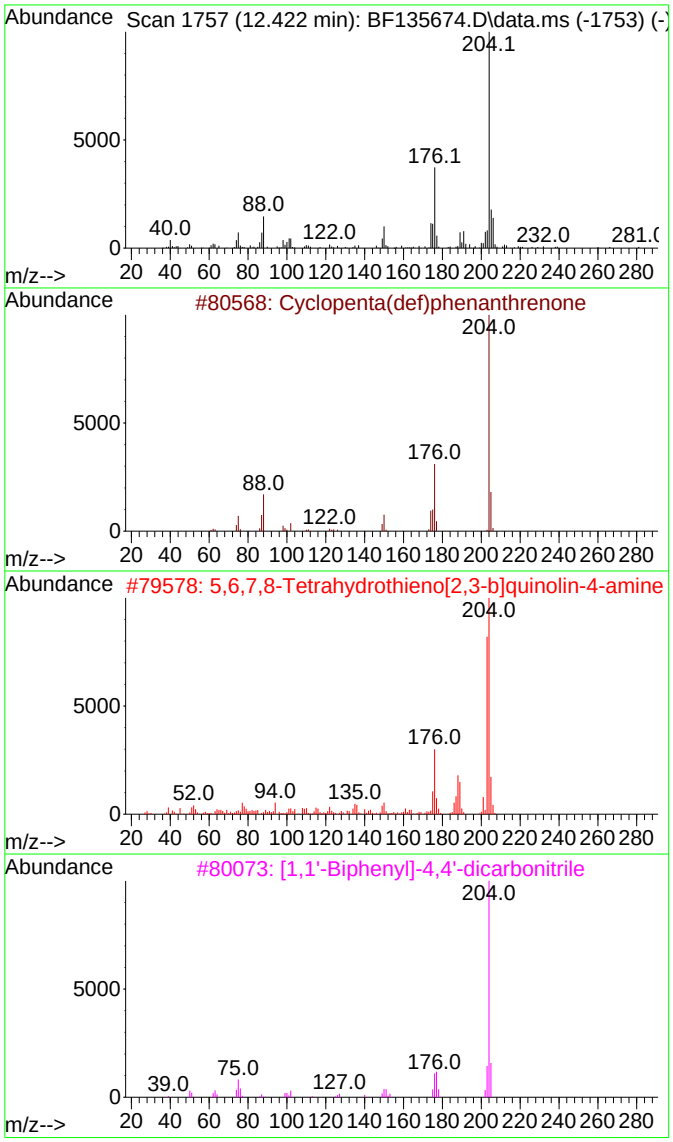
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

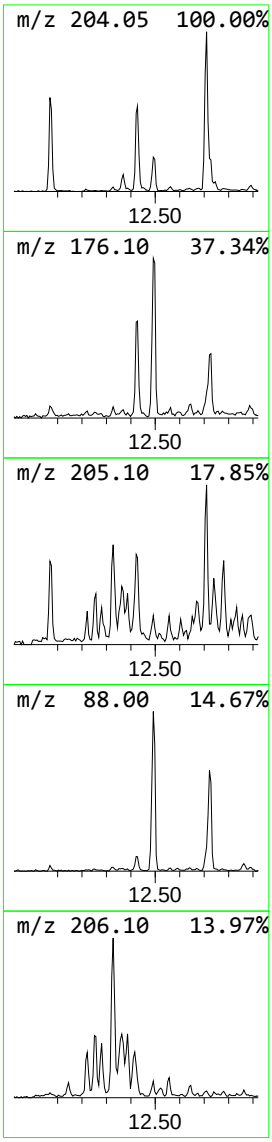
****

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.422	3.98 ng	125558	Phenanthrene-d10	11.269

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	5,6,7,8-Tetrahydrothieno[2,3-b]q...	204	C11H12N2S	122914-50-5	59
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	1,4-Naphthalenedione, 2-hydroxy-...	204	C11H8O4	005257-83-0	50
5	(S)-N-(Furan-2-ylmethyl)-1-(1,2,...	511	C27H41N3O3Si2	1010498-97-4	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

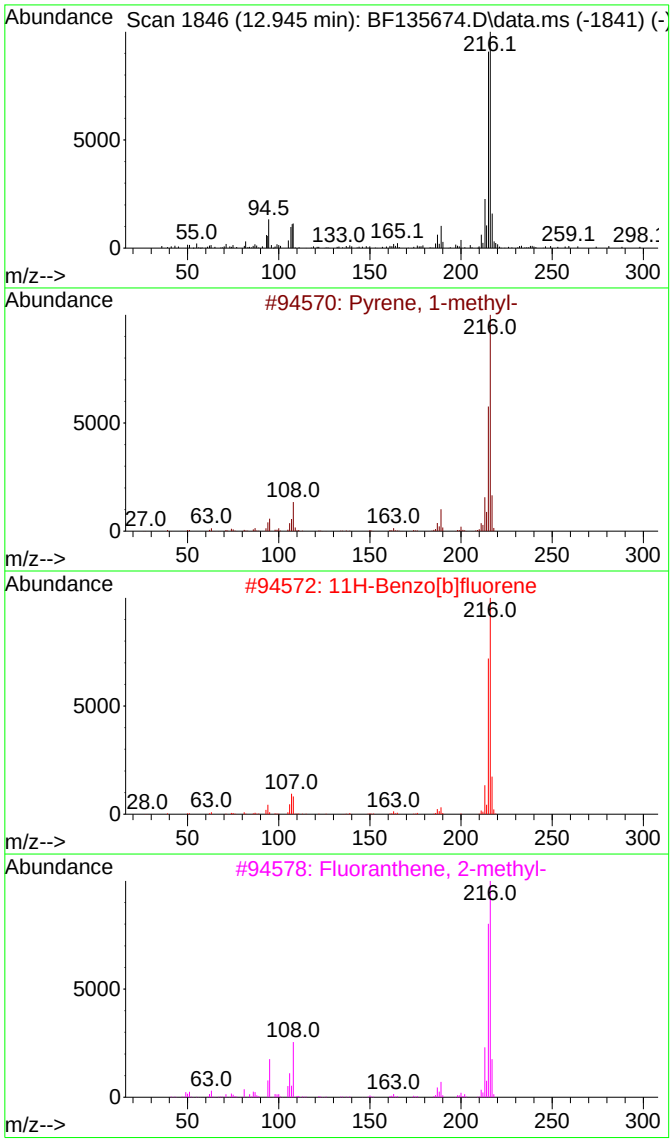
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

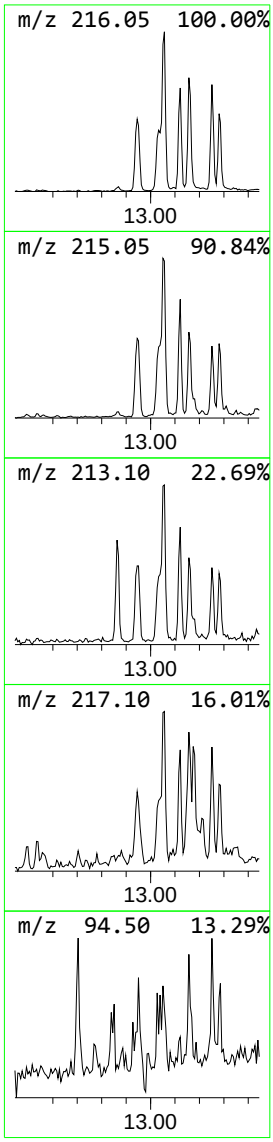
****

Peak Number 13 Pyrene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.945	2.61 ng	190245	Chrysene-d12	13.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

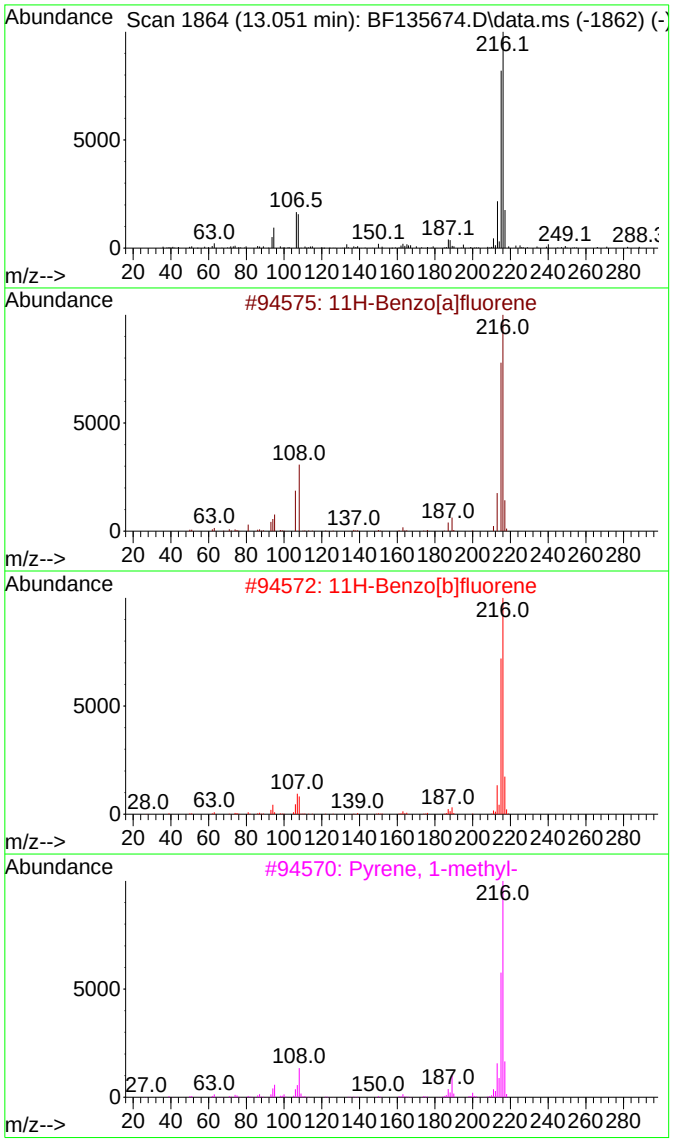
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

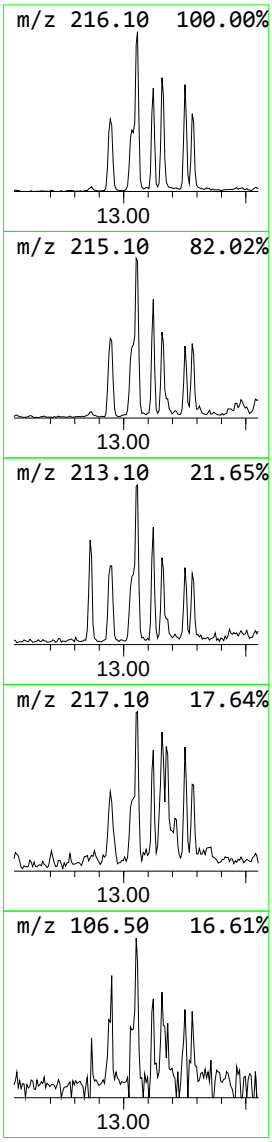
****

Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.051	2.44 ng	178029	Chrysene-d12	13.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	86
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

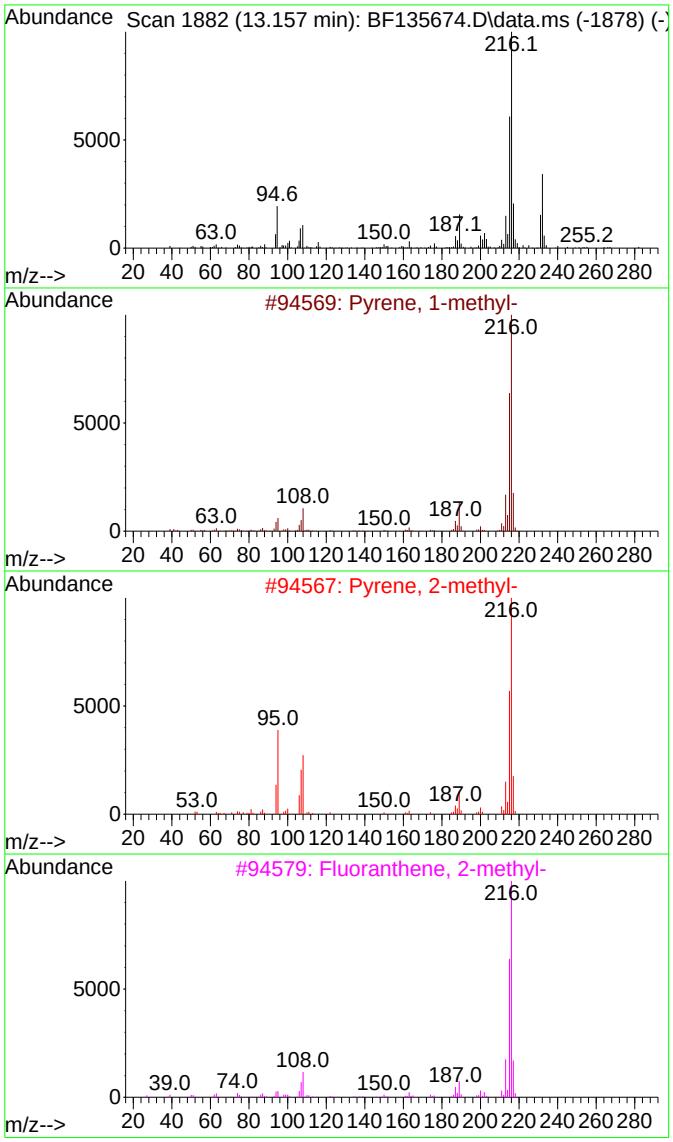
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

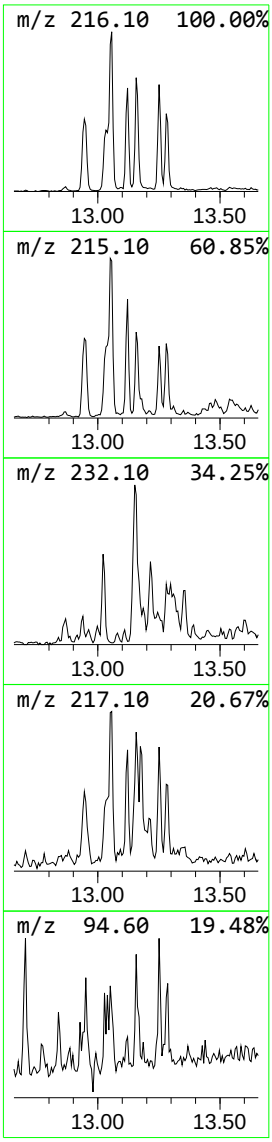
****

Peak Number 15 Pyrene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.157	2.41 ng	175377	Chrysene-d12	13.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

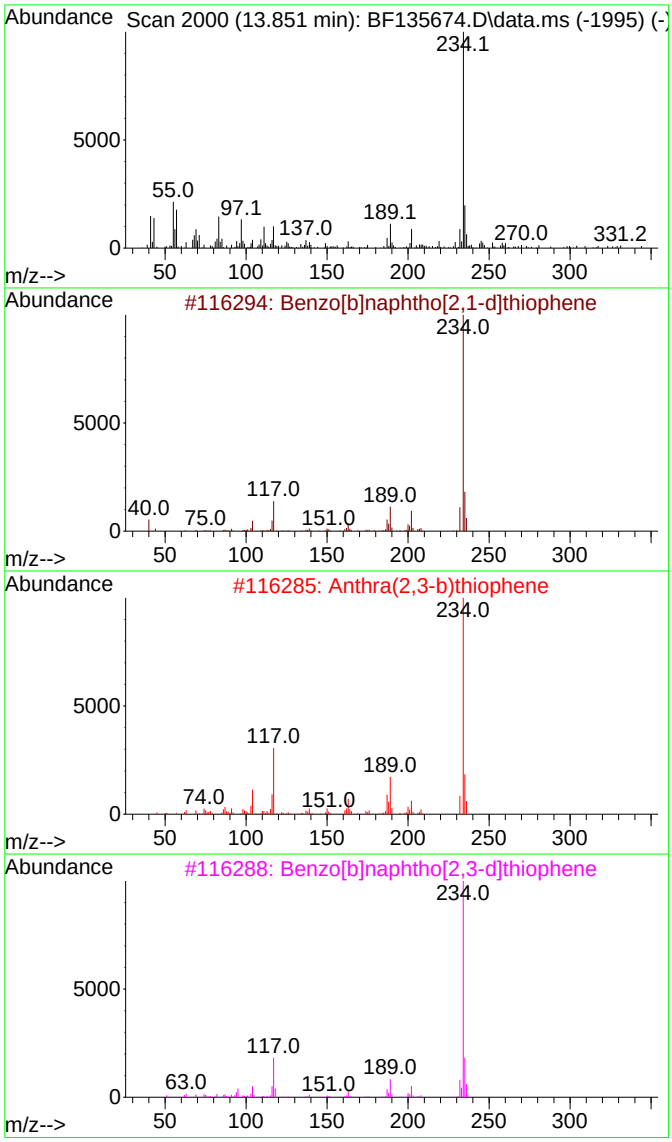
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

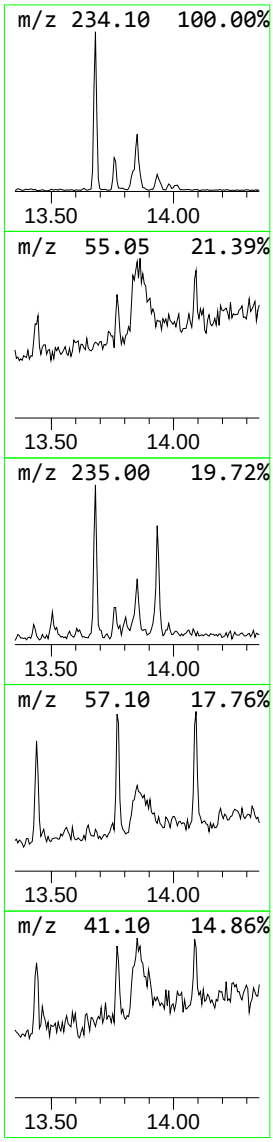
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.851	2.80 ng	204082	Chrysene-d12	13.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90
2	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	81
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	81
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	74
5	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

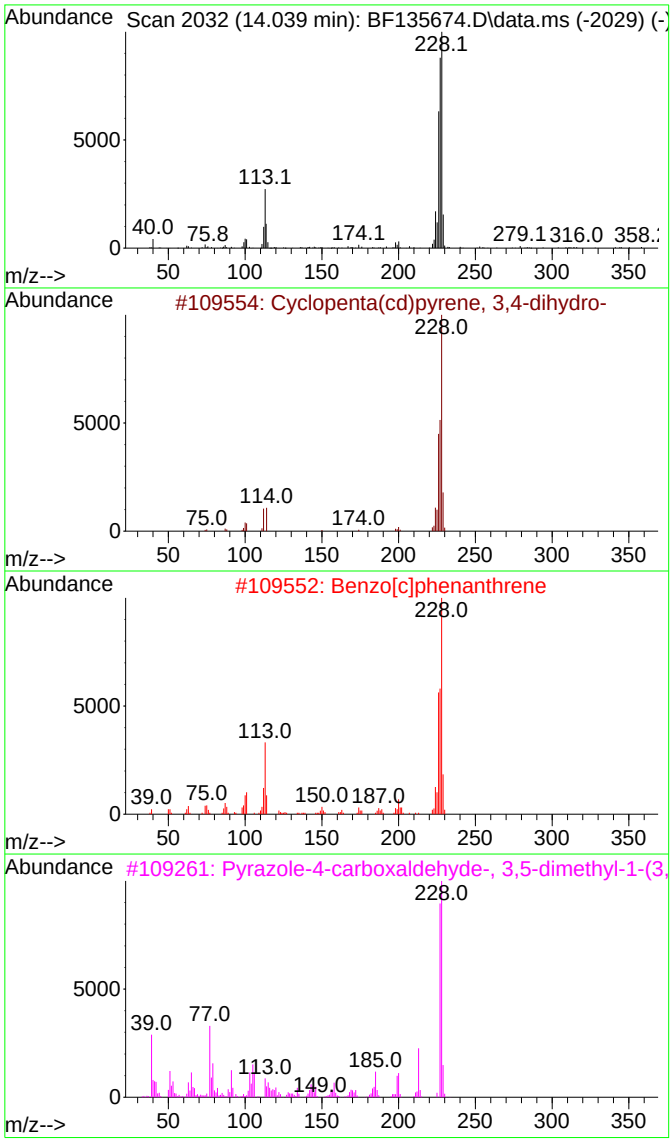
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

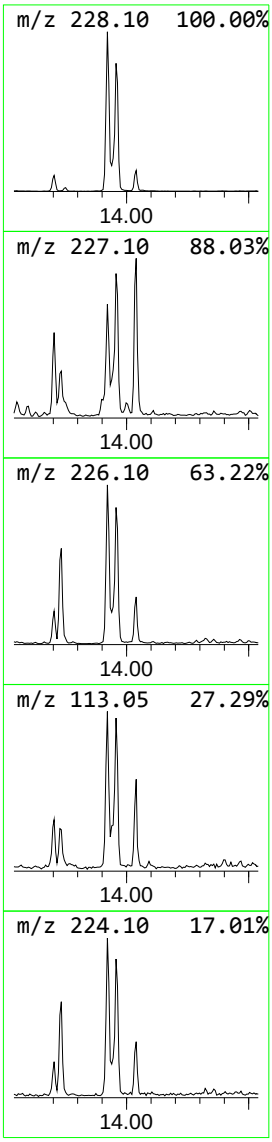
****

Peak Number 17 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.039	2.20 ng	160215	Chrysene-d12	13.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	70
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	64
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
4	Triphenylene	228	C18H12	000217-59-4	50
5	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	40





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

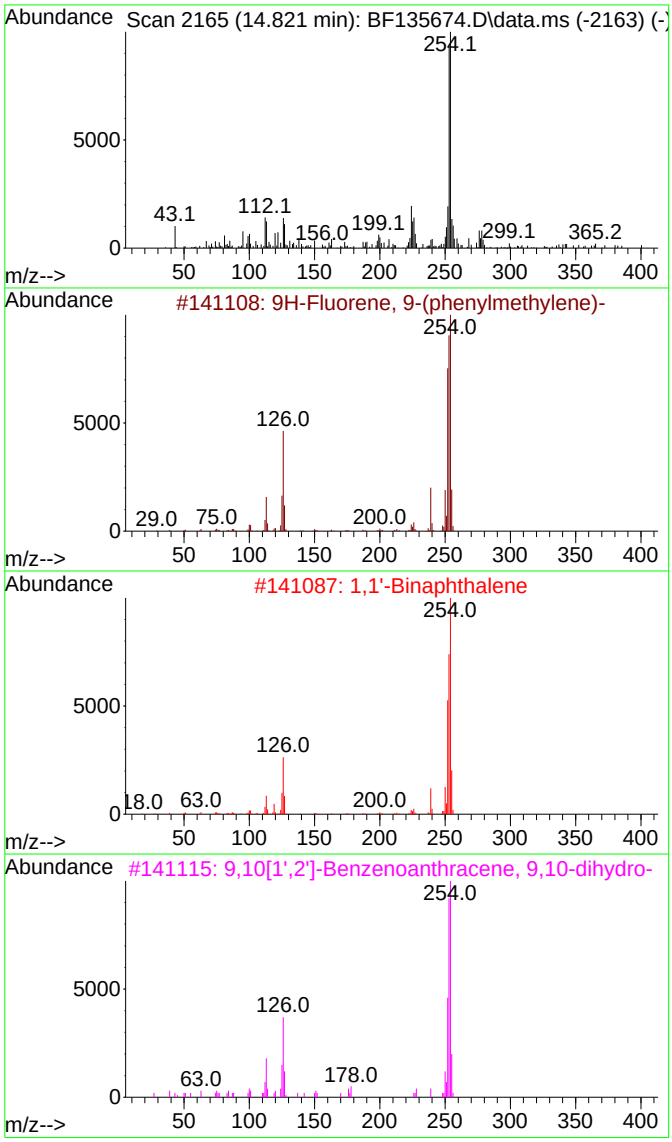
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

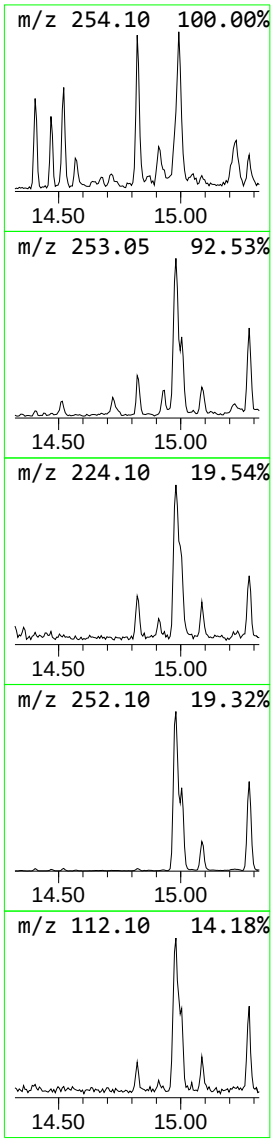
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 9H-Fluorene, 9-(phenylmethy... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.821	3.57 ng	72414	Perylene-d12	15.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	68
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	64
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62
4	9,10[1',4']-Benzenoanthracene, 9...	254	C20H14	1000487-02-7	59
5	2,6-(Etheno[1,4]benzenoetheno)na...	254	C20H14	117054-70-3	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

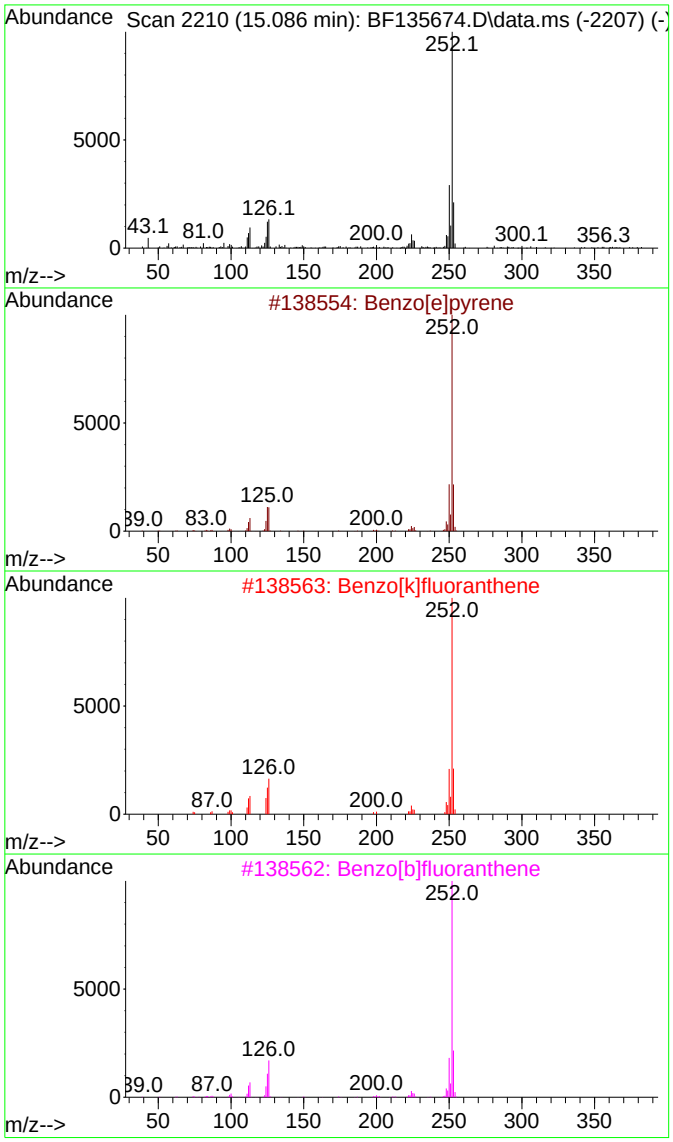
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

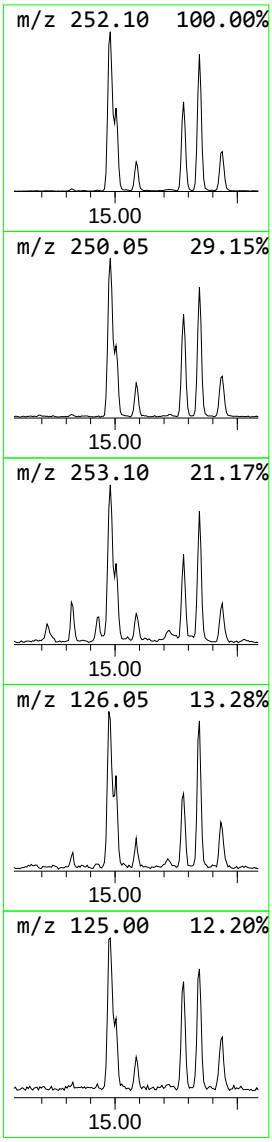
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.086	7.29 ng	147751	Perylene-d12	15.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

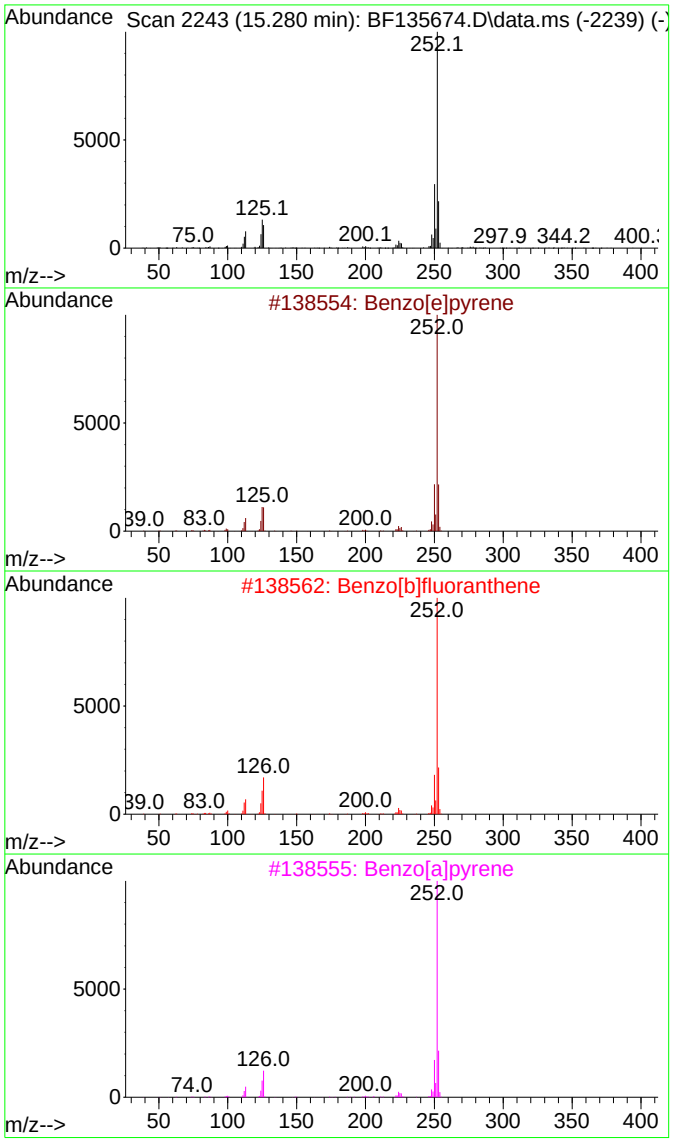
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

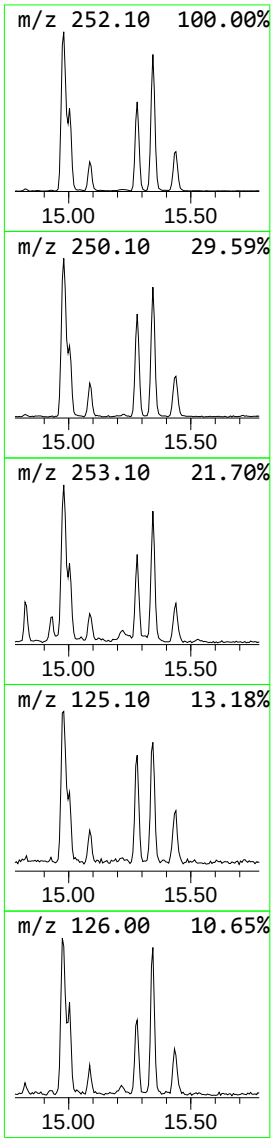
****

Peak Number 20 Benzo[j]fluoranthene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.280	18.16 ng	368055	Perylene-d12	15.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135674.D
Acq On : 10 Oct 2023 03:18
Operator : CG\JU
Sample : 04784-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-02-10052023

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.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
2-Pentanone, 4-...	4.957	12.4	ng	372577	1	6.740	600305	20.0
Pentadecane, 2,...	10.692	2.7	ng	85172	4	11.269	630567	20.0
Naphtho[2,1-b]t...	11.163	2.8	ng	88661	4	11.269	630567	20.0
2,4-Diphenyl-4-...	11.216	4.5	ng	142098	4	11.269	630567	20.0
Anthracene, 1-m...	11.775	4.2	ng	133020	4	11.269	630567	20.0
Anthracene, 2-m...	11.804	9.2	ng	289972	4	11.269	630567	20.0
4H-Cyclopenta[d...	11.886	8.8	ng	278417	4	11.269	630567	20.0
Phenanthrene, 2...	11.910	2.7	ng	84961	4	11.269	630567	20.0
Naphthalene, 2-...	12.069	3.4	ng	105808	4	11.269	630567	20.0
9,10-Anthracene...	12.110	2.2	ng	69859	4	11.269	630567	20.0
9,10-Dimethylan...	12.327	3.9	ng	123359	4	11.269	630567	20.0
Cyclopenta(def)...	12.422	4.0	ng	125558	4	11.269	630567	20.0
Pyrene, 1-methyl-	12.945	2.6	ng	190245	5	13.933	1458110	20.0
11H-Benzo[a]flu...	13.051	2.4	ng	178029	5	13.933	1458110	20.0
Pyrene, 2-methyl-	13.157	2.4	ng	175377	5	13.933	1458110	20.0
Benzo[b]naphtho...	13.851	2.8	ng	204082	5	13.933	1458110	20.0
Cyclopenta(cd)p...	14.039	2.2	ng	160215	5	13.933	1458110	20.0
9H-Fluorene, 9-...	14.821	3.6	ng	72414	6	15.404	405344	20.0
Benzo[e]pyrene	15.086	7.3	ng	147751	6	15.404	405344	20.0
Benzo[j]fluoran...	15.280	18.2	ng	368055	6	15.404	405344	20.0