LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

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-BF102722.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF130913.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.251	19	28	35	rVB	297506	383094	7.55%	0.614%
2	5.169	519	524	530	rBV	254987	309641	6.10%	0.496%
3	5.557	583	590	593	rBV	1983638	1851417	36.47%	2.968%
4	6.457	740	743	750	rBV3	79558	130340	2.57%	0.209%
5	6.557	755	760	763	rBV	1776340	1732835	34.13%	2.778%
6	6.763	791	795	798	rBV2	208217	201984	3.98%	0.324%
7	6.934	821	824	827	rVB	617333	527301	10.39%	0.845%
8	7.498	916	920	923	rBV	1203057	1042556	20.54%	1.671%
9	8.122	1022	1026	1036	rBV	102091	194197	3.83%	0.311%
10	8.222	1039	1043	1045	rVV	656238	542855	10.69%	0.870%
11	8.933	1161	1164	1168	rVB	178510	136645	2.69%	0.219%
12	9.033	1177	1181	1184	rVB	188074	150488	2.96%	0.241%
13	9.298	1221	1226	1229	rVB	2040919	1577782	31.08%	2.529%
14	9.569	1266	1272	1275	rBV	166418	229172	4.51%	0.367%
15	9.639	1280	1284	1286	rBV	312490	301972	5.95%	0.484%
16	9.663	1286	1288	1291	rVB	181273	132453	2.61%	0.212%
17	9.757	1300	1304	1306	rBV	161668	149307	2.94%	0.239%
18	9.845	1316	1319	1322	rVB2	208492	196509	3.87%	0.315%
19	9.980	1340	1342	1345	rVV	575272	469732	9.25%	0.753%
20	10.016	1345	1348	1351	rVB	513597	391332	7.71%	0.627%
21	10.086	1356	1360	1364	rBV2	97269	134564	2.65%	0.216%
22	10.186	1373	1377	1380	rVV2	452910	428367	8.44%	0.687%
23	10.222	1380	1383	1387	rVB	244937	193718	3.82%	0.311%
24	10.298	1392	1396	1398	rBV2	206719	208533	4.11%	0.334%
25	10.327	1398	1401	1403	rVV	187291	139467	2.75%	0.224%
26	10.386	1407	1411	1413	rBV	153227	202660	3.99%	0.325%
27	10.533	1432	1436	1441	rVB	967585	875154	17.24%	1.403%
28	10.622	1448	1451	1453	rVV3	190112	200948	3.96%	0.322%
29	10.686	1457	1462	1466	rVB3	271295	336574	6.63%	0.539%
30	10.774	1473	1477	1480	rVB	1320285	1166589	22.98%	1.870%
31	10.892	1492	1497	1501	rBV3	218173	272629	5.37%	0.437%
32	11.080	1523	1529	1532	rBV2	407446	525505	10.35%	0.842%
33	11.110	1532	1534	1537	rVV2	294767	258132	5.08%	0.414%
34	11.169	1541	1544	1546	rVB	217224	197051	3.88%	0.316%
35	11.210	1546	1551	1553	rBV3	182007	254699	5.02%	0.408%
36	11.233	1553	1555	1560	rVV3	212557	248442	4.89%	0.398%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

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-BF102722.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.280	1560	1563	1566	rVV3	157830	163218	3.22%	0.262%
38	11.321	1567	1570	1574	rVV2	201673	279663	5.51%	0.448%
39	11.374	1574	1579	1584	rVB	559054	538690	10.61%	0.863%
40	11.480	1593	1597	1598	rBV	474313	447325	8.81%	0.717%
41	11.516	1598	1603	1605	rVV	4637875	4732527	93.22%	7.586%
42	11.557	1607	1610	1613	rVV	1334382	1133830	22.33%	1.817%
43	11.586	1613	1615	1618	rVV2	181071	177649	3.50%	0.285%
44	11.710	1632	1636	1642	rBV2	293563	384672	7.58%	0.617%
45	11.774	1645	1647	1649	rVV	165456	125816	2.48%	0.202%
46	11.810	1650	1653	1657	rVB	358899	311489	6.14%	0.499%
47	11.892	1664	1667	1671	rVB	219565	233291	4.60%	0.374%
48	11.986	1677	1683	1685	rBV	1226534	1219141	24.02%	1.954%
49	12.016	1685	1688	1691	rVB	1564850	1335714	26.31%	2.141%
50	12.063	1691	1696	1698	rBV	511271	530502	10.45%	0.850%
51	12.098	1698	1702	1704	rVV2	1580129	1686515	33.22%	2.703%
52	12.121	1704	1706	1709	rVB	904713	666430	13.13%	1.068%
53	12.280	1729	1733	1735	rVV	619814	583585	11.50%	0.935%
54	12.310	1735	1738	1743	rVB2	191933	228492	4.50%	0.366%
55	12.427	1756	1758	1760	rVB	292870	210374	4.14%	0.337%
56	12.457	1760	1763	1765	rBV	428875	338624	6.67%	0.543%
57	12.480	1765	1767	1770	rVB2	338194	312071	6.15%	0.500%
58	12.533	1770	1776	1779	rBV	889584	1089254	21.46%	1.746%
59	12.574	1779	1783	1785	rVV3	421403	530782	10.46%	0.851%
60	12.621	1788	1791	1796	rBV2	331330	486187	9.58%	0.779%
61	12.710	1801	1806	1809	rBV	4007667	4421179	87.09%	7.087%
62	12.745	1809	1812	1813	rBV	173706	159008	3.13%	0.255%
63	12.763	1813	1815	1818	rVB2	232093	189112	3.73%	0.303%
64	12.851	1828	1830	1833	rBV	263802	222413	4.38%	0.357%
65	12.945	1838	1846	1849	rBV	3692859	5076532	100.00%	8.137%
66	12.980	1849	1852	1856	rVB2	425272	492753	9.71%	0.790%
67	13.068	1856	1867	1870	rBV2	1666335	2121273	41.79%	3.400%
68	13.145	1875	1880	1887	rBV5	449785	855376	16.85%	1.371%
69	13.233	1892	1895	1896	rBV2	323100	328541	6.47%	0.527%
70	13.257	1896	1899	1902	rVB	897797	976957	19.24%	1.566%
71	13.292	1902	1905	1908	rBV4	119821	191779	3.78%	0.307%
72	13.327	1908	1911	1913	rBV	716380	582037	11.47%	0.933%
73	13.362	1913	1917	1920	rBV2	711511	710485	14.00%	1.139%
74	13.457	1930	1933	1935	rBV	520014	427813	8.43%	0.686%
75	13.486	1935	1938	1941	rVB	500039	419885	8.27%	0.673%
76	13.568	1949	1952	1955	rVB3	127832	150179	2.96%	0.241%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

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-BF102722.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	13.633	1960	1963	1965	rBV2	150926	173454	3.42%	0.278%
78	13.739	1978	1981	1983	rBV	159825	191649	3.78%	0.307%
79	13.768	1983	1986	1990	rVB	262074	319233	6.29%	0.512%
80	13.880	2000	2005	2008	rBV4	401449	592539	11.67%	0.950%
81	13.910	2008	2010	2012	rVB	298616	213866	4.21%	0.343%
82	13.933	2012	2014	2017	rBV2	200612	236044	4.65%	0.378%
83	14.127	2040	2047	2050	rBV2	1731868	2281715	44.95%	3.657%
84	14.162	2050	2053	2058	rVB	1550001	1364566	26.88%	2.187%
85	14.215	2059	2062	2064	rBV2	128295	132585	2.61%	0.213%
86	14.239	2064	2066	2069	rVB	238055	159232	3.14%	0.255%
87	14.280	2070	2073	2077	rBV5	122974	190909	3.76%	0.306%
88	14.357	2082	2086	2089	rBV3	133382	213807	4.21%	0.343%
89	14.515	2109	2113	2116	rVB	414385	446946	8.80%	0.716%
90	14.551	2116	2119	2122	rVB	258200	203908	4.02%	0.327%
91	14.645	2132	2135	2137	rVV	227532	212937	4.19%	0.341%
92	14.668	2137	2139	2142	rVB	210957	168400	3.32%	0.270%
93	15.204	2225	2230	2233	rBV	646546	1070717	21.09%	1.716%
94	15.315	2246	2249	2252	rVB	164993	165212	3.25%	0.265%
95	15.521	2280	2284	2290	rVB	407252	539509	10.63%	0.865%
96	15.592	2291	2296	2301	rVV	659688	855484	16.85%	1.371%
97	15.651	2303	2306	2309	rVV	210815	287379	5.66%	0.461%
98	15.686	2309	2312	2318	rVB2	193060	275759	5.43%	0.442%
99	17.203	2565	2570	2578	rVB2	206452	423967	8.35%	0.680%
100	17.680	2646	2651	2658	rVB	154071	301181	5.93%	0.483%

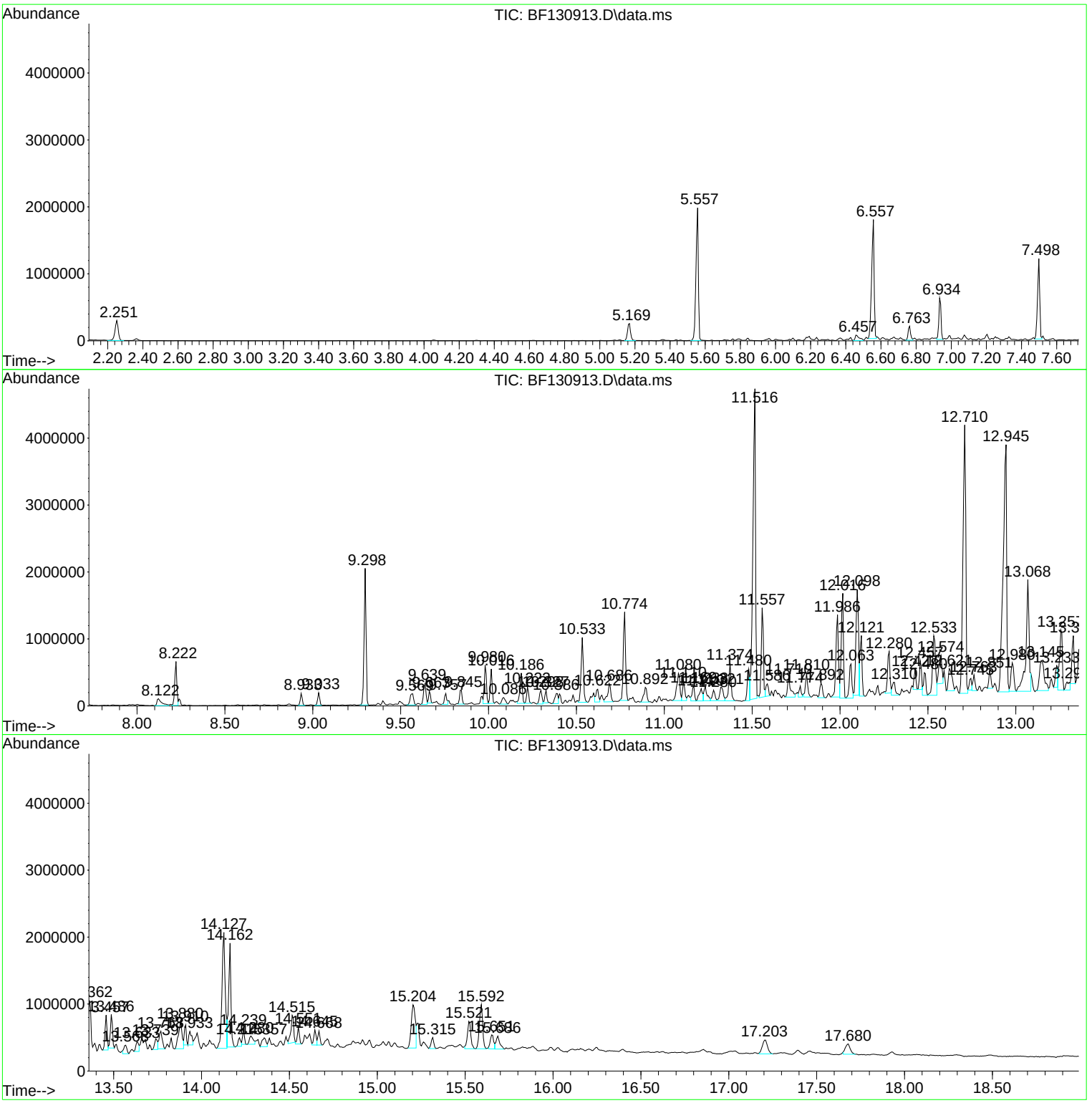
Sum of corrected areas: 62386805

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

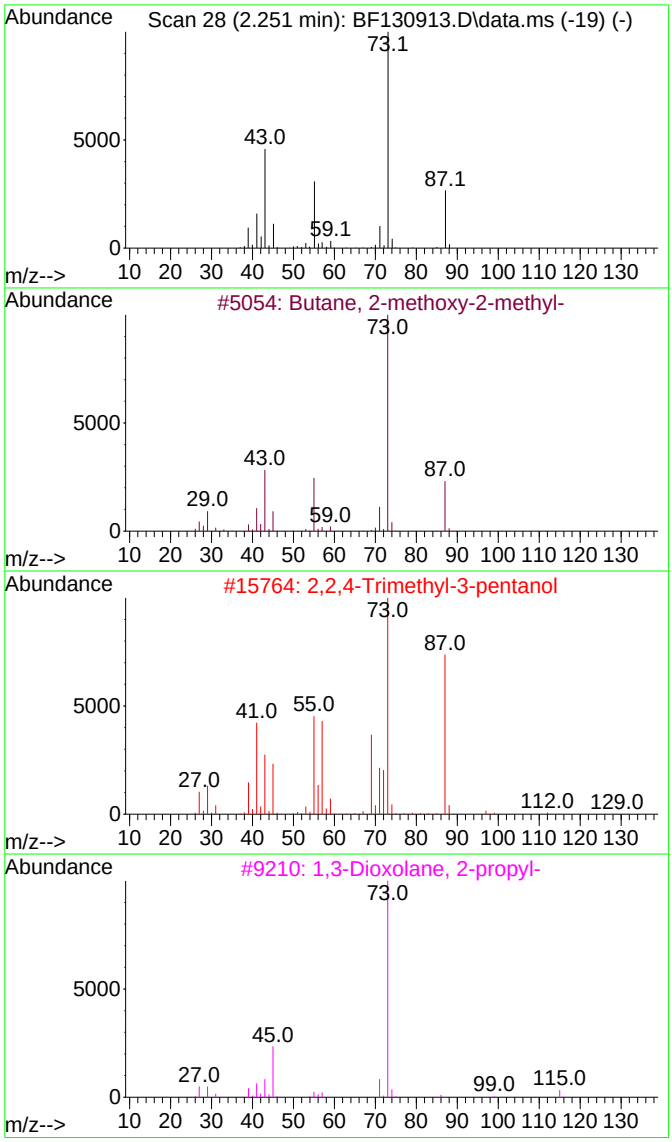
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

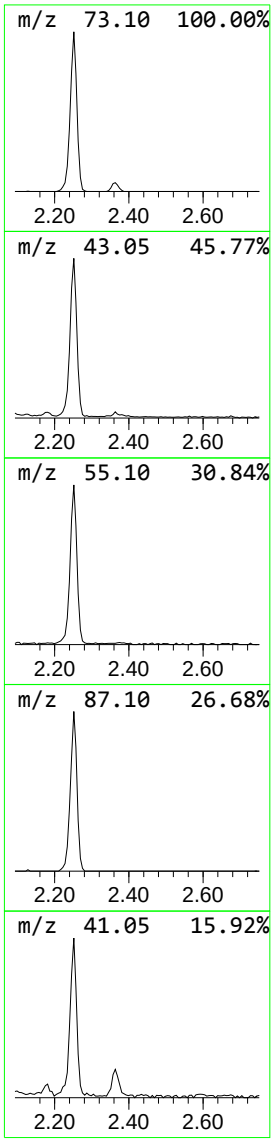
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.251	14.53 ng	383094	1,4-Dichlorobenzene-d4	6.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	23
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

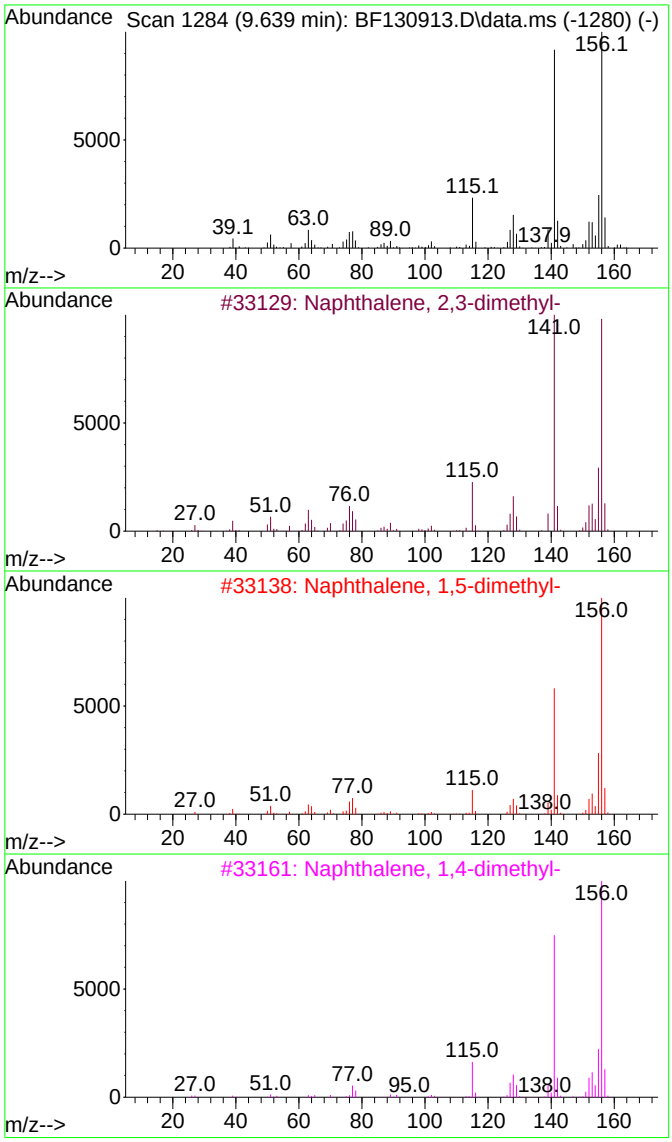
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

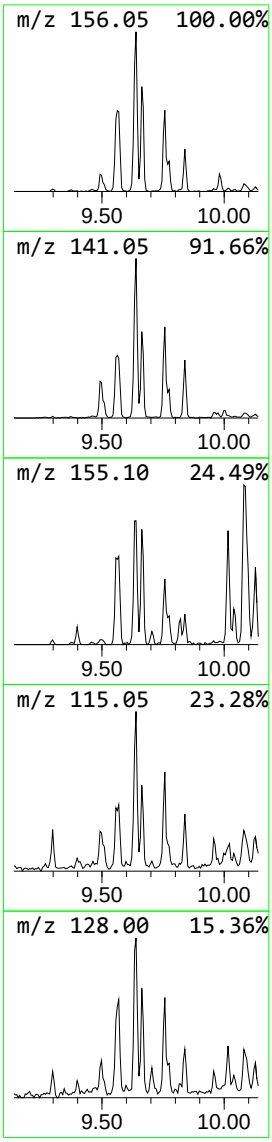
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.639	12.86 ng	301972	Acenaphthene-d10	9.980

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

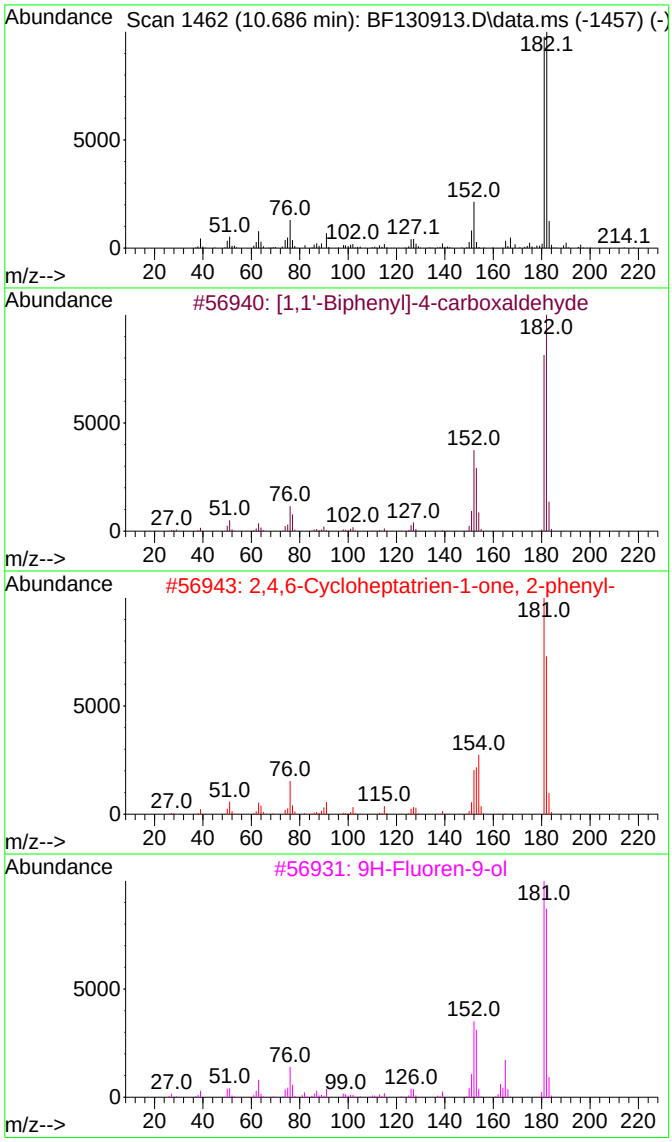
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

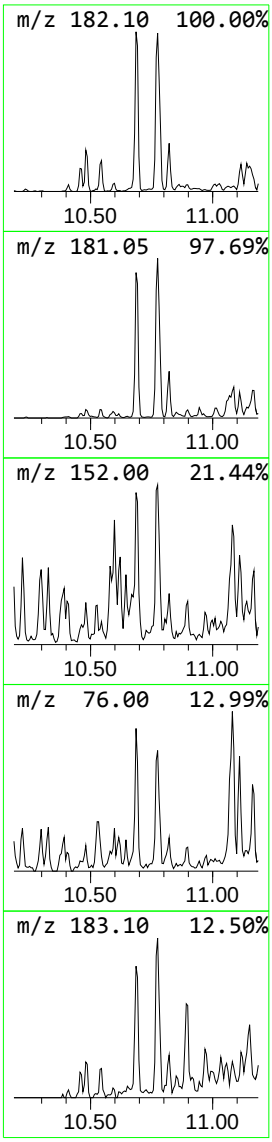
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.686	14.33 ng	336574	Acenaphthene-d10	9.980

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	70
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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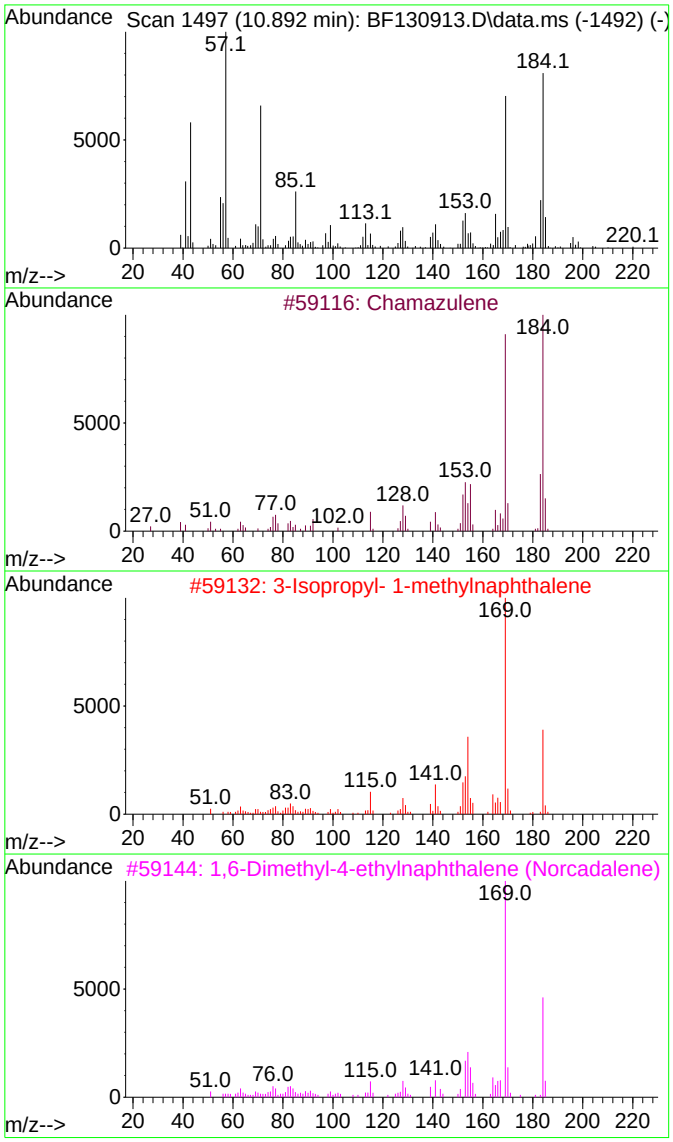
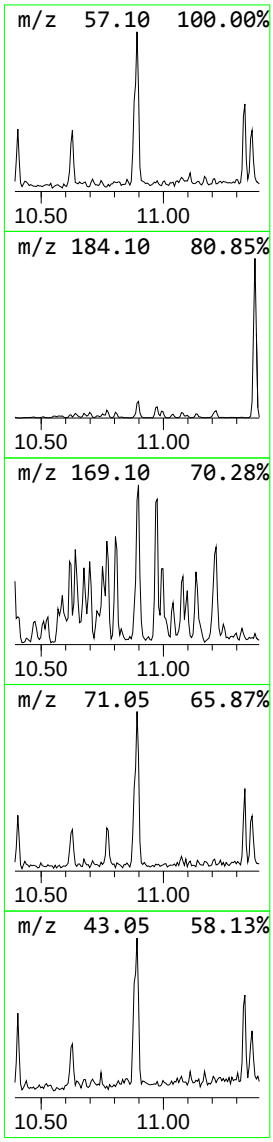
Peak Number 4 Chamazulene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.892	12.19 ng	272629	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	86
2	3-Isopropyl- 1-methylnaphthalene	184	C14H16	1000383-71-4	78
3	1,6-Dimethyl-4-ethylnaphthalene ...	184	C14H16	1000383-71-7	78
4	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	64
5	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

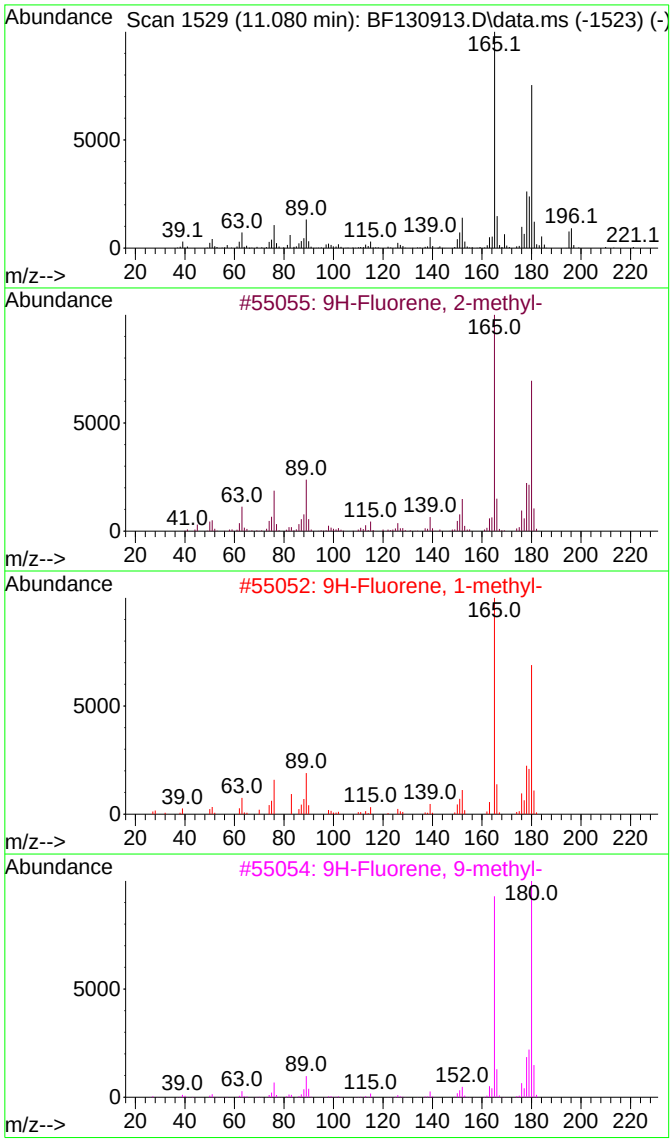
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

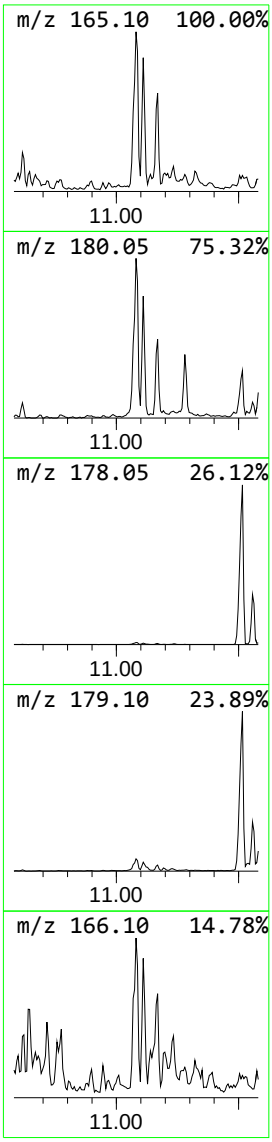
****

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.080	23.50 ng	525505	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90





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Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TP-E

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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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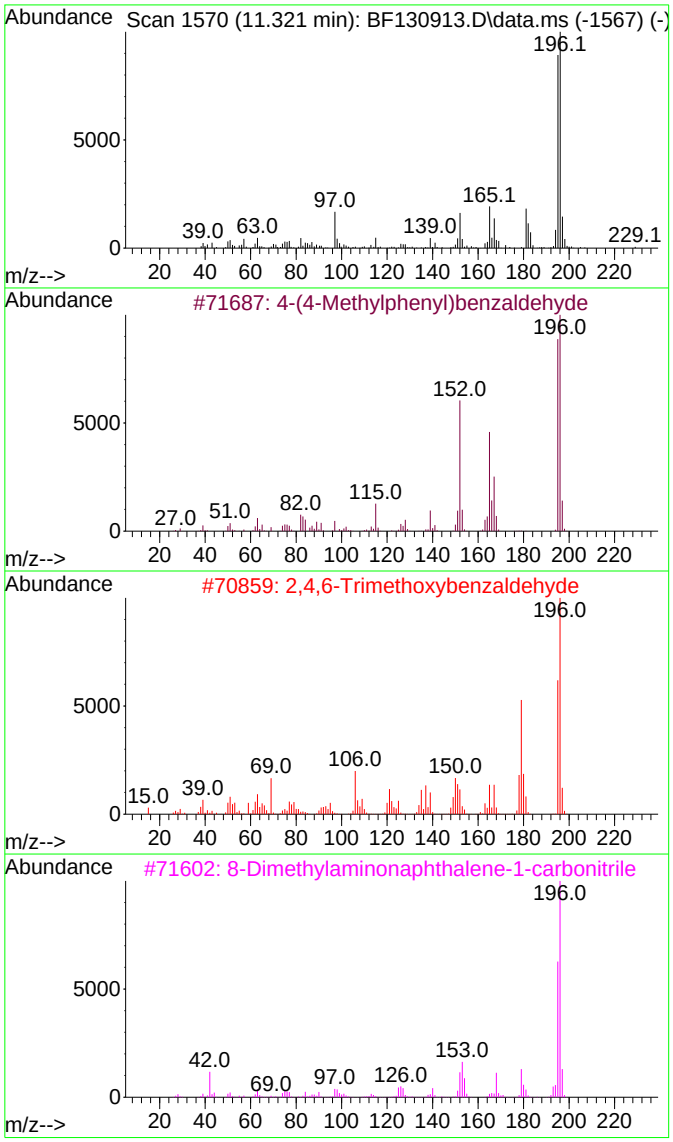
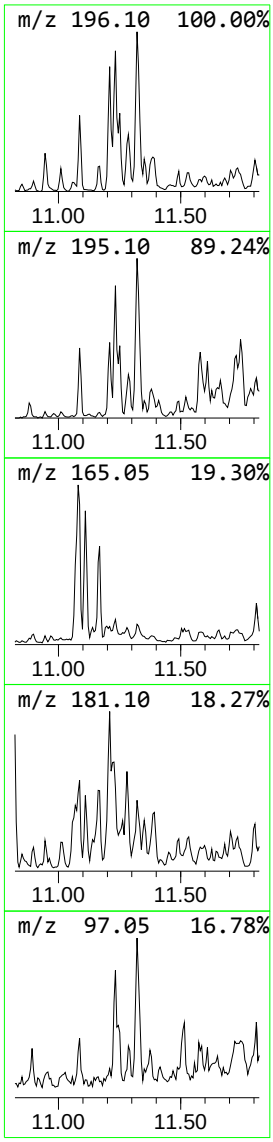
Peak Number 6 4-(4-Methylphenyl)benzaldehyde Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.322	12.50 ng	279663	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(4-Methylphenyl)benzaldehyde	196	C14H12O	036393-42-7	93
2	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	86
3	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	64
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	62
5	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	58





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Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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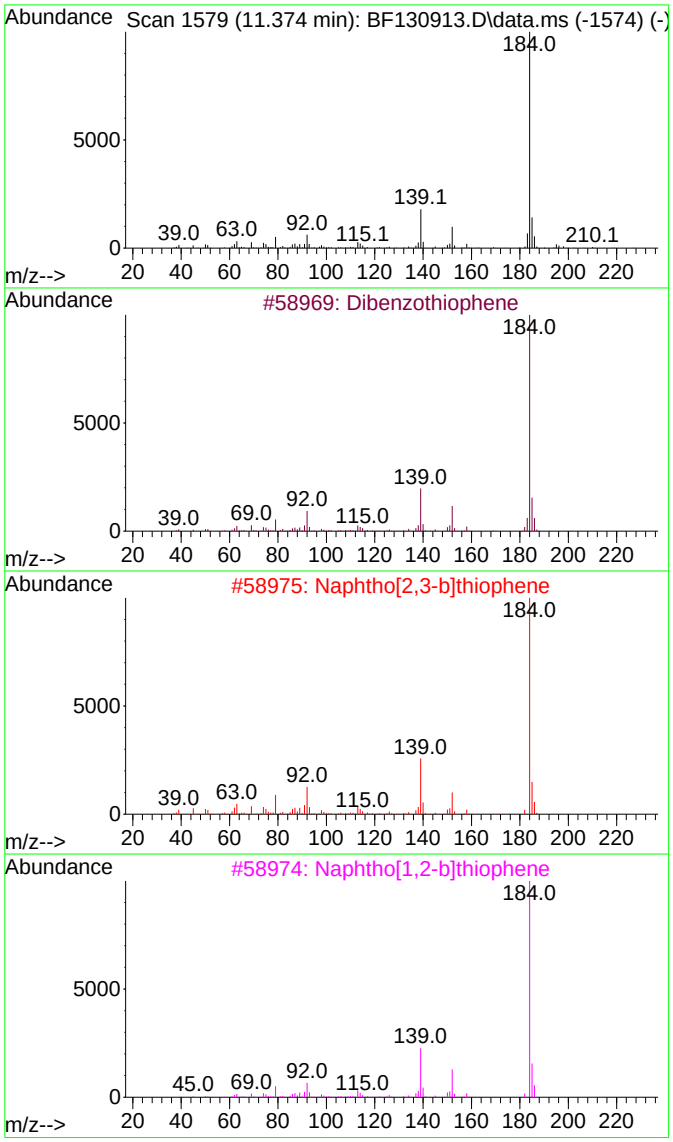
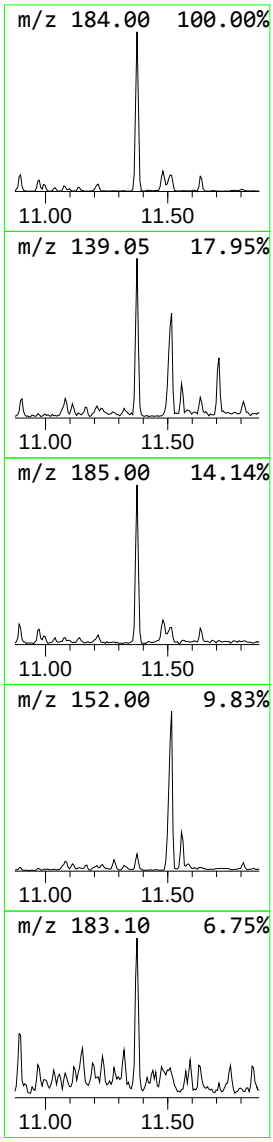
Peak Number 7 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.374	24.08 ng	538690	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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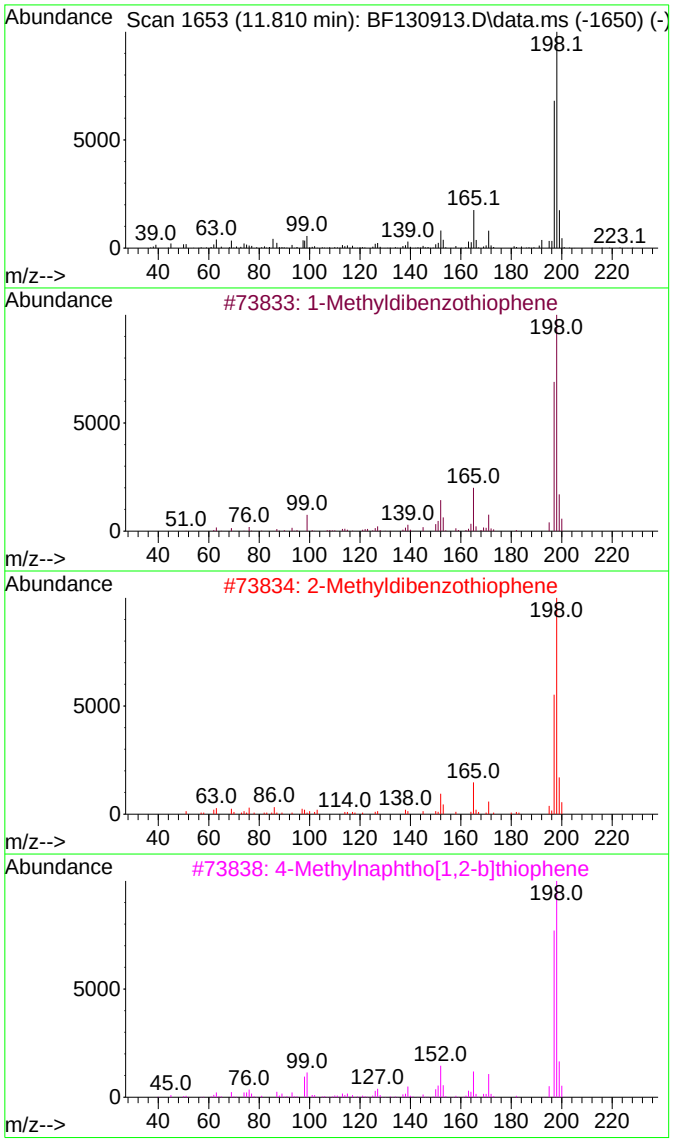
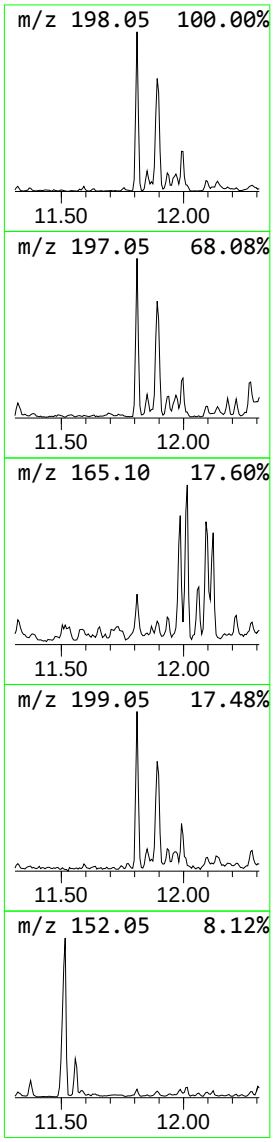
Peak Number 8 1-Methyldibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.810	13.93 ng	311489	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	91
2	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	90
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	87
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	83
5	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	80





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Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

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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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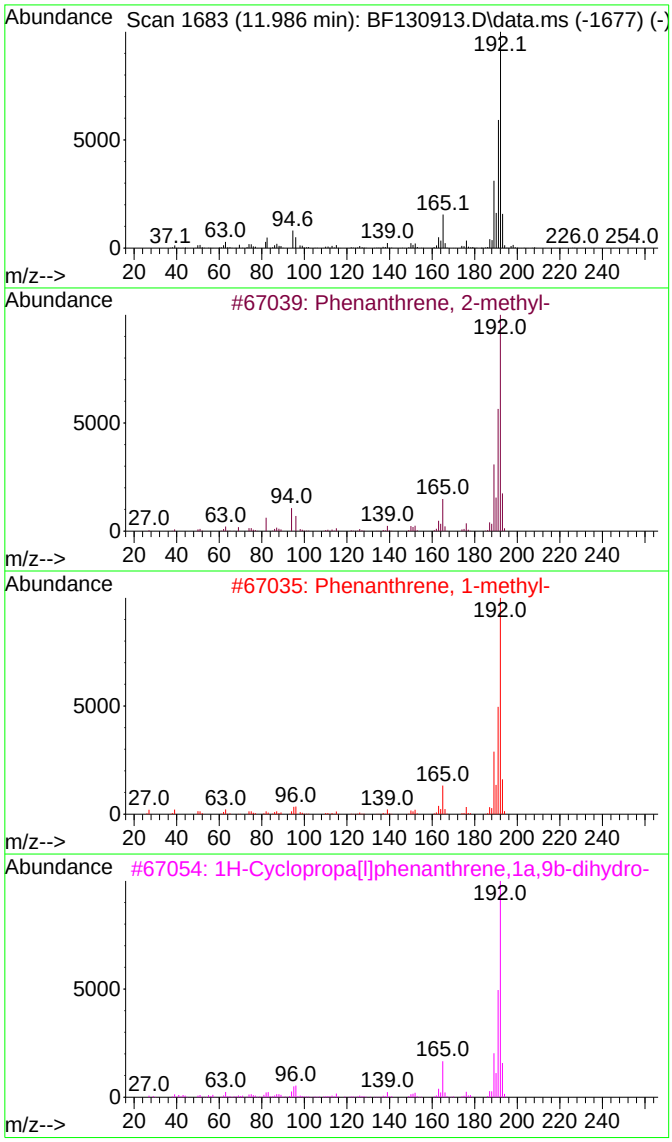
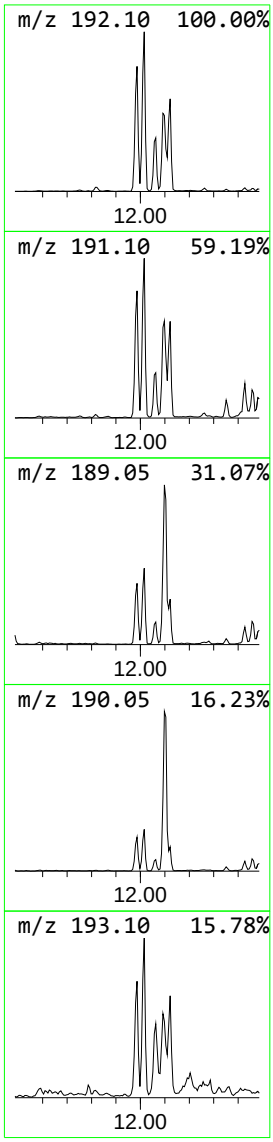
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.986	54.51 ng	1219140	Phenanthrene-d10	11.480

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Acq On : 01 Nov 2022 22:09
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Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

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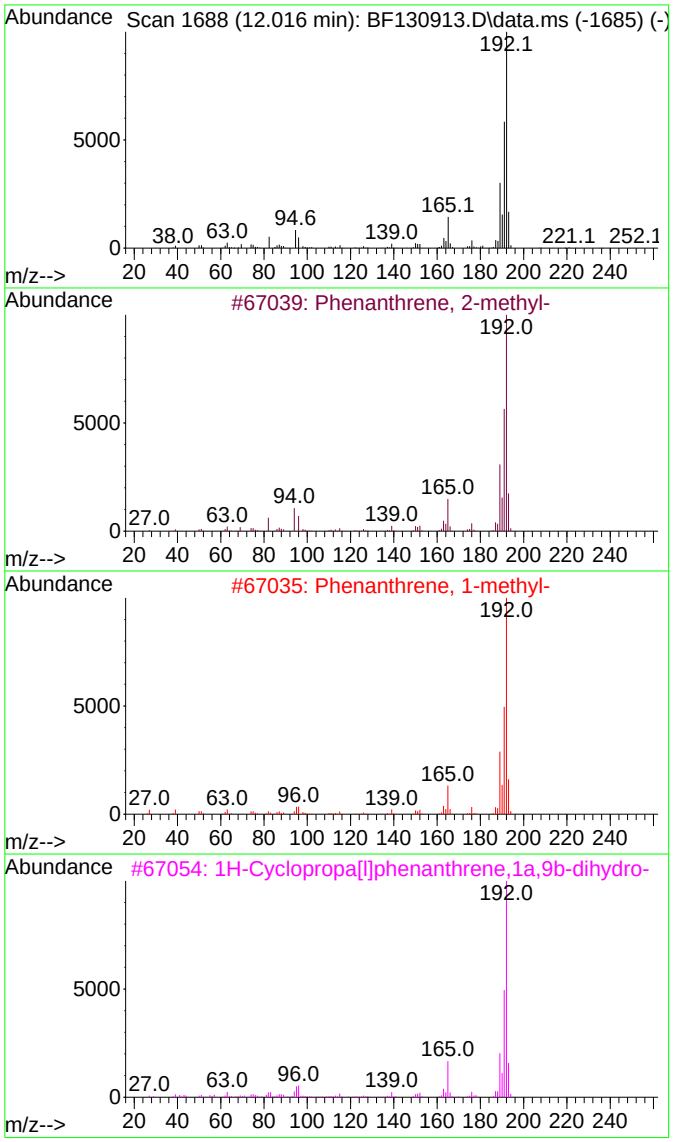
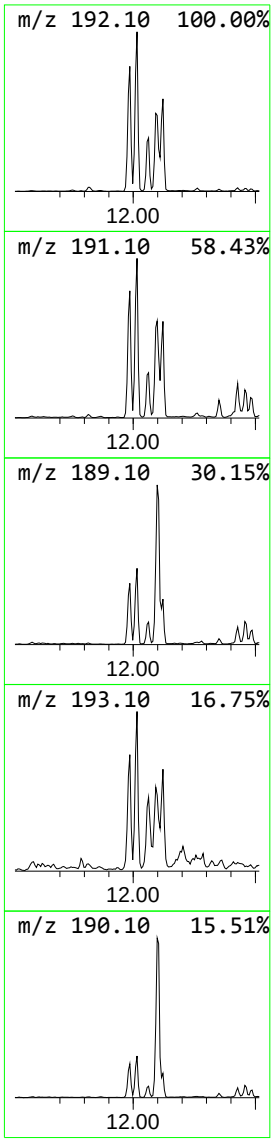
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.015	59.72 ng	1335710	Phenanthrene-d10	11.480

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





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Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

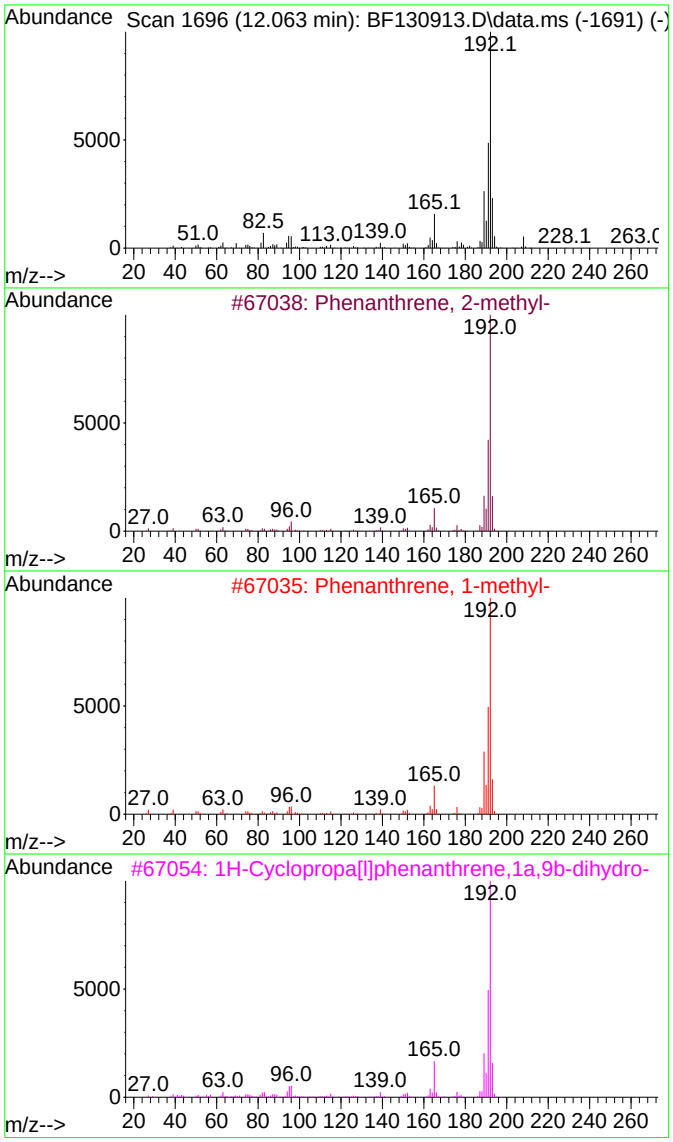
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

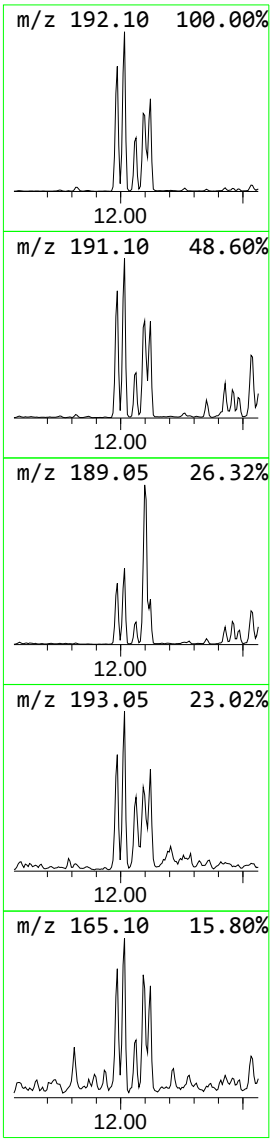
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.063	23.72 ng	530502	Phenanthrene-d10	11.480

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





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Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

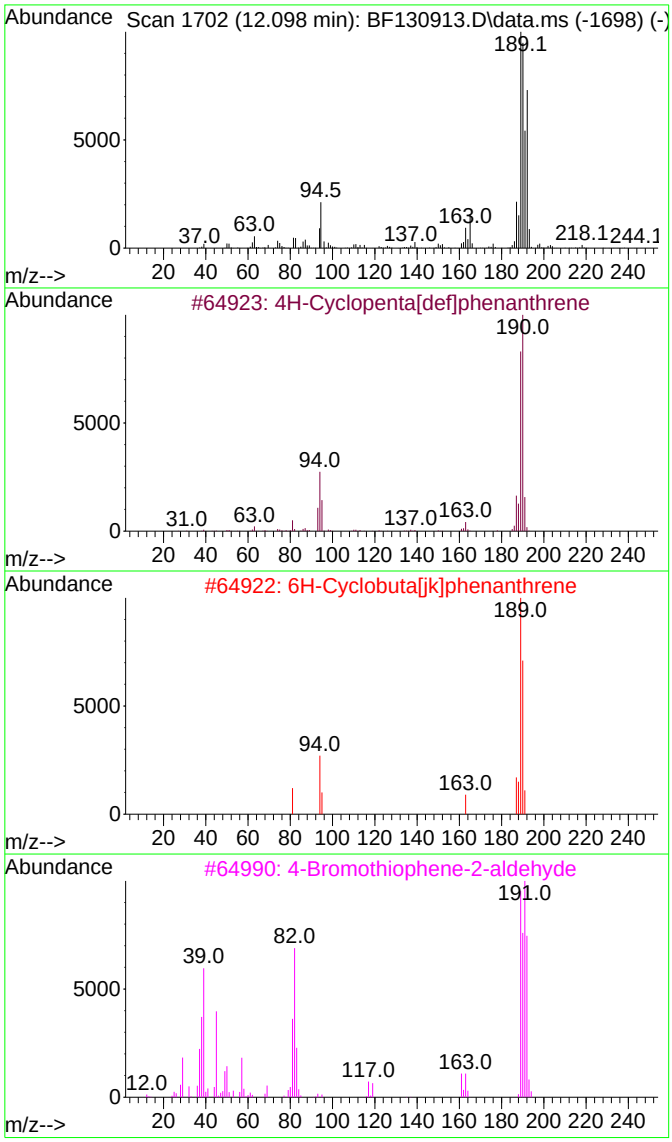
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

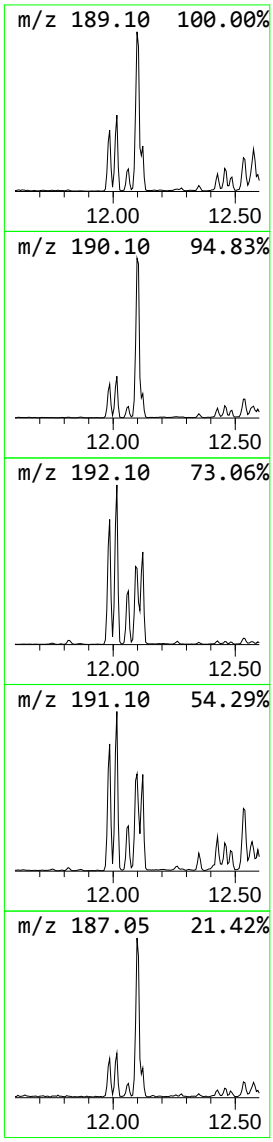
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.098	75.40 ng	1686520	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
3	4-Bromothiophene-2-aldehyde	190	C5H3BrOS	018791-75-8	52
4	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	43
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38





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Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TP-E

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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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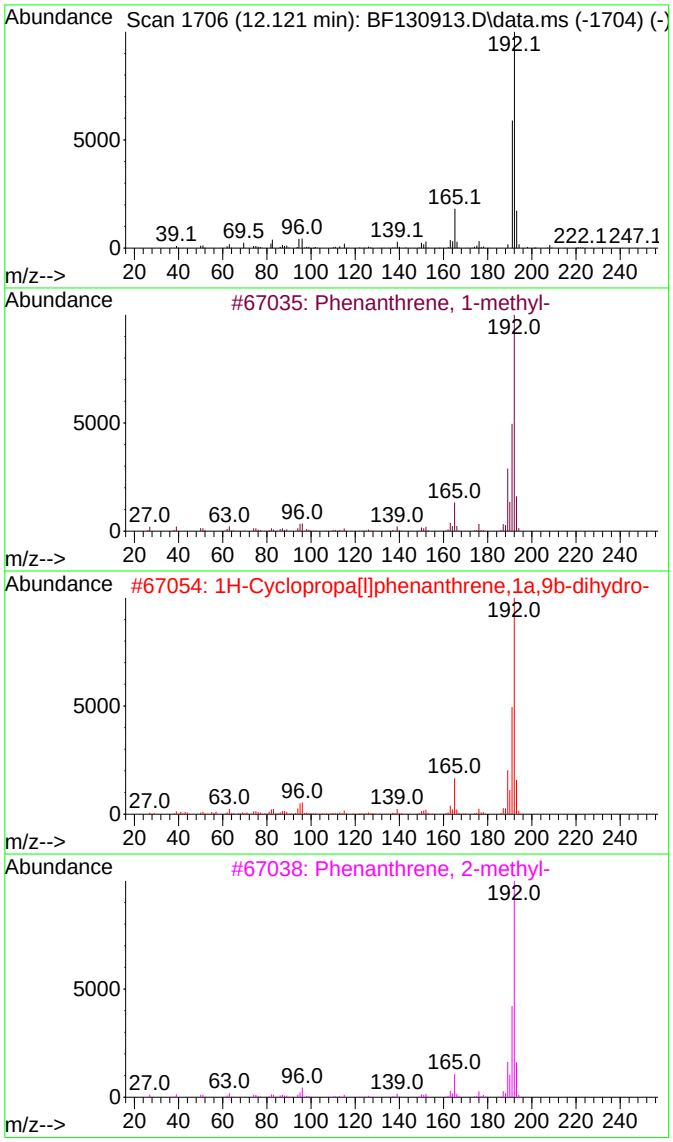
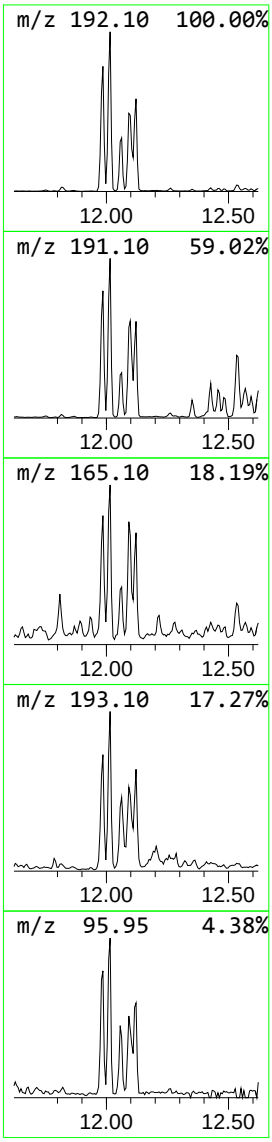
Peak Number 13 Phenanthrene, 4-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.121	29.80 ng	666430	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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ALS Vial : 13 Sample Multiplier: 1

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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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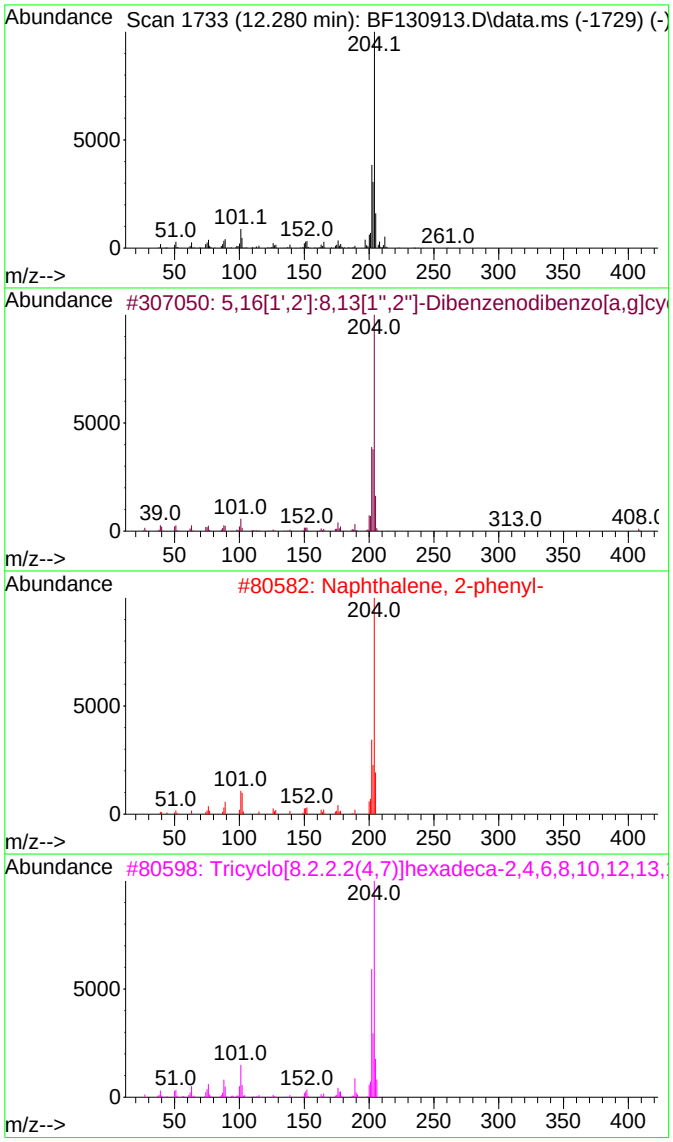
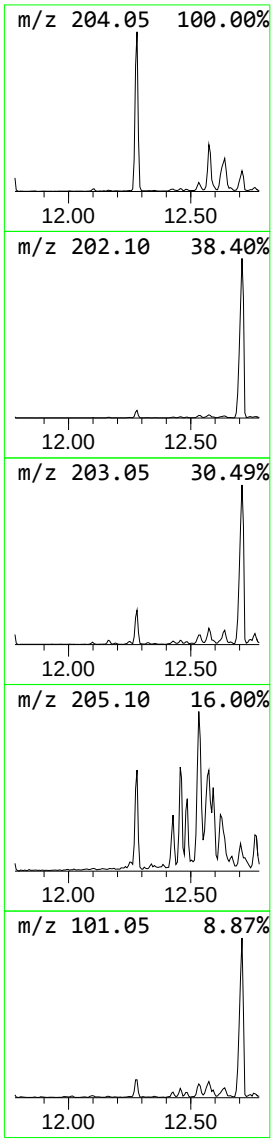
Peak Number 14 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.280	26.09 ng	583585	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	78
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	47
5	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	46





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Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

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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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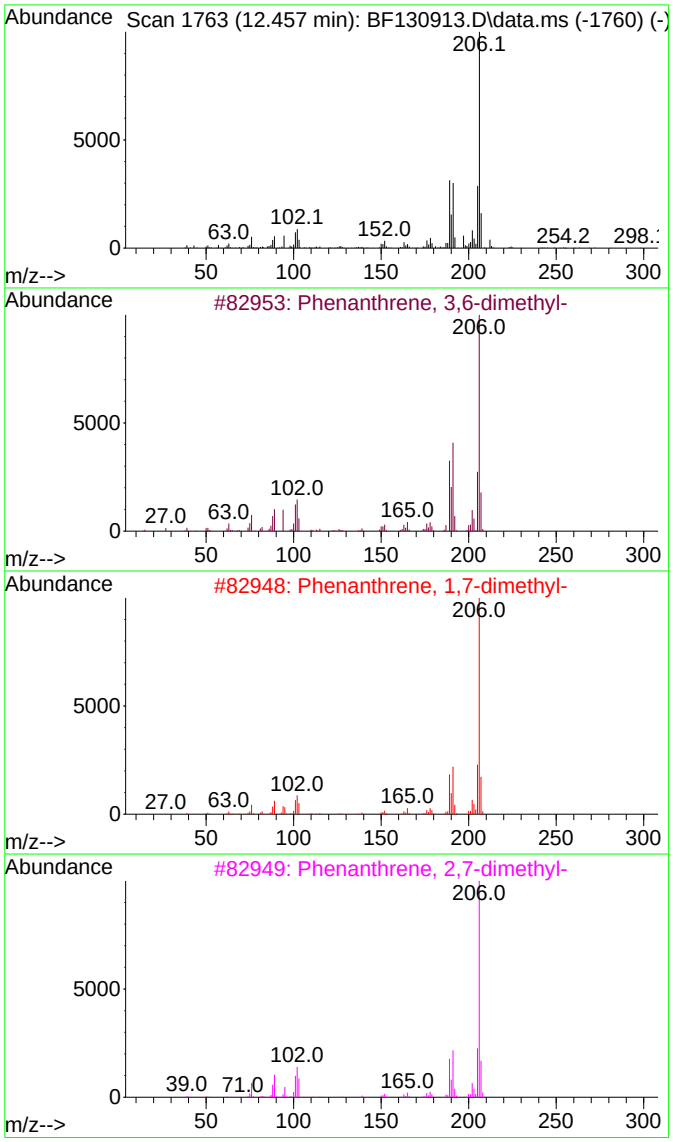
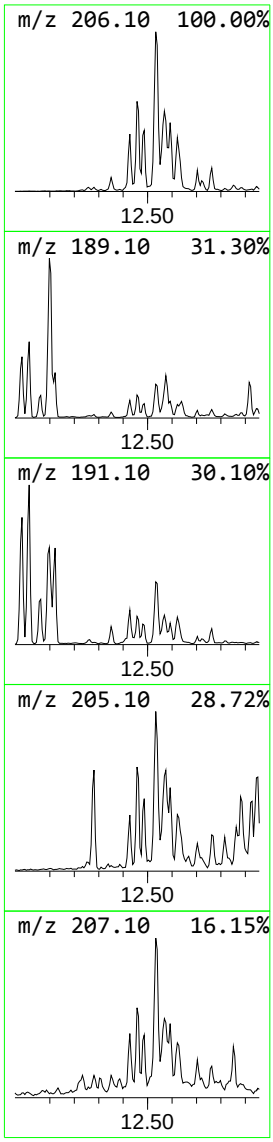
Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.457	15.14 ng	338624	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	81
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	80





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BNA_F
ClientSampleId :
TP-E

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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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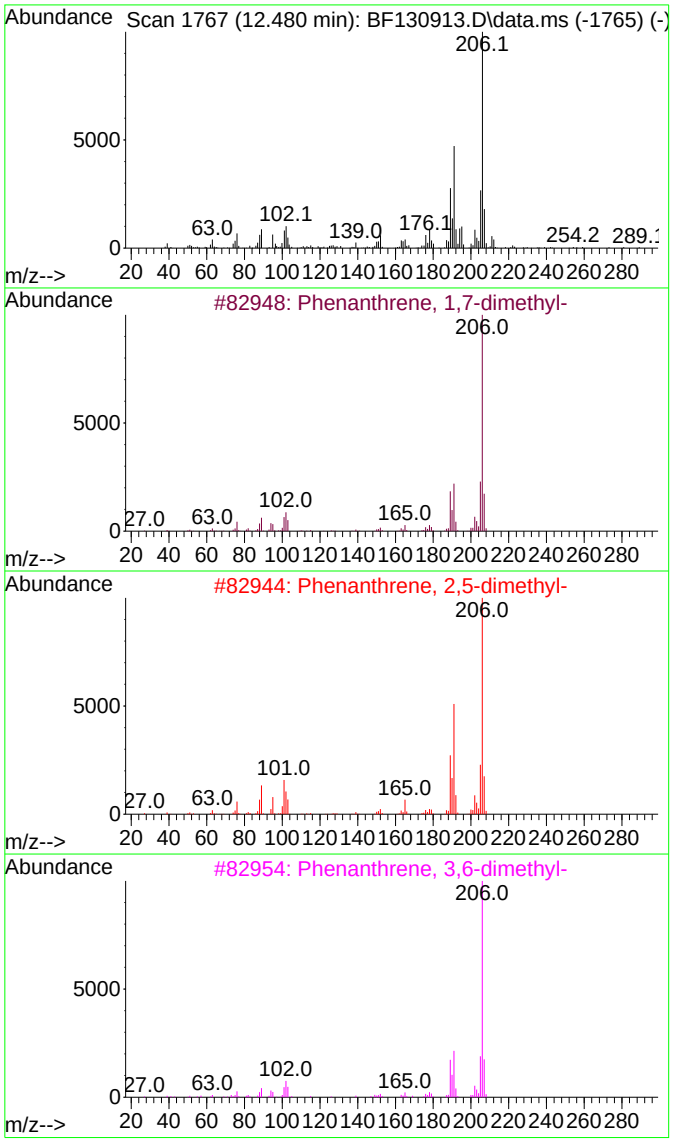
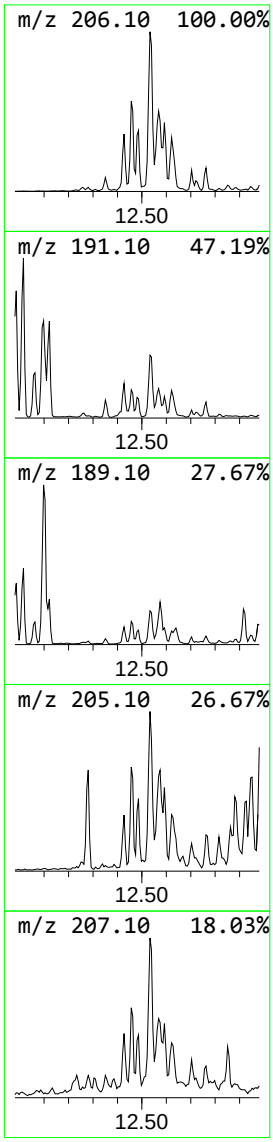
Peak Number 16 Phenanthrene, 1,7-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.480	13.95 ng	312071	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	92
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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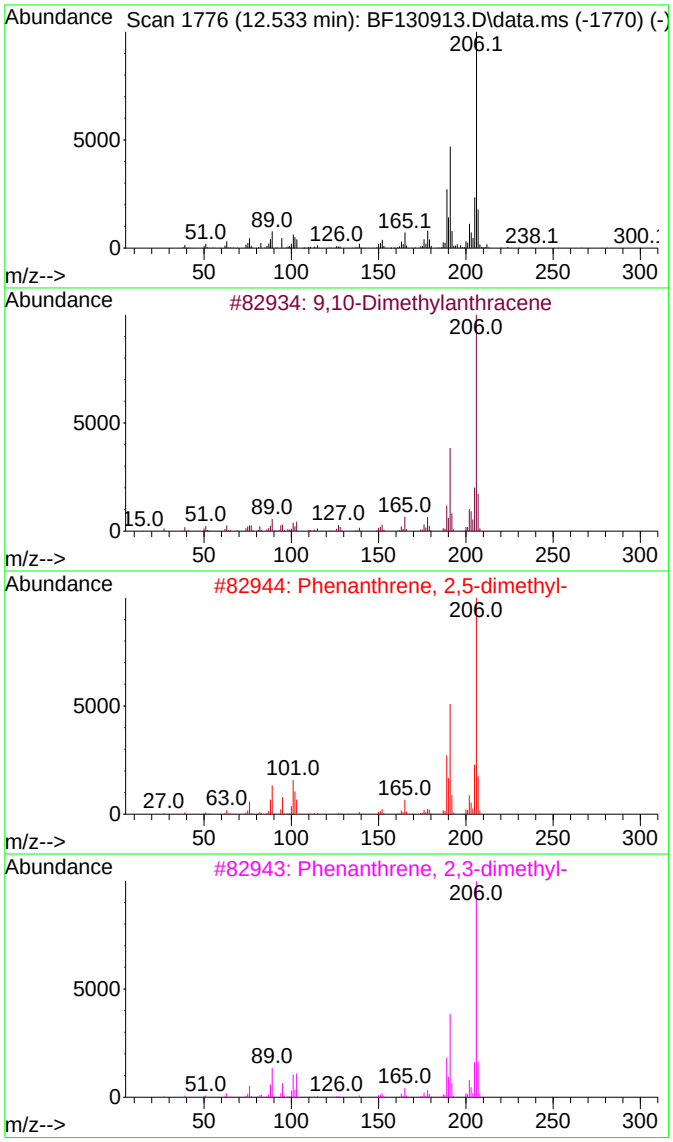
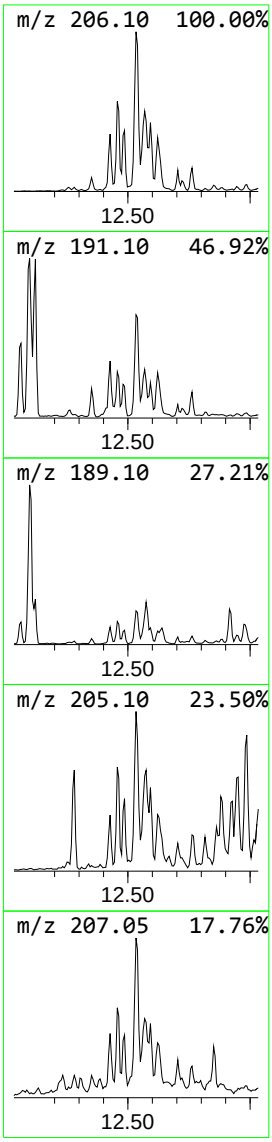
Peak Number 17 9,10-Dimethylanthracene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	48.70 ng	1089250	Phenanthrene-d10	11.480

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	95
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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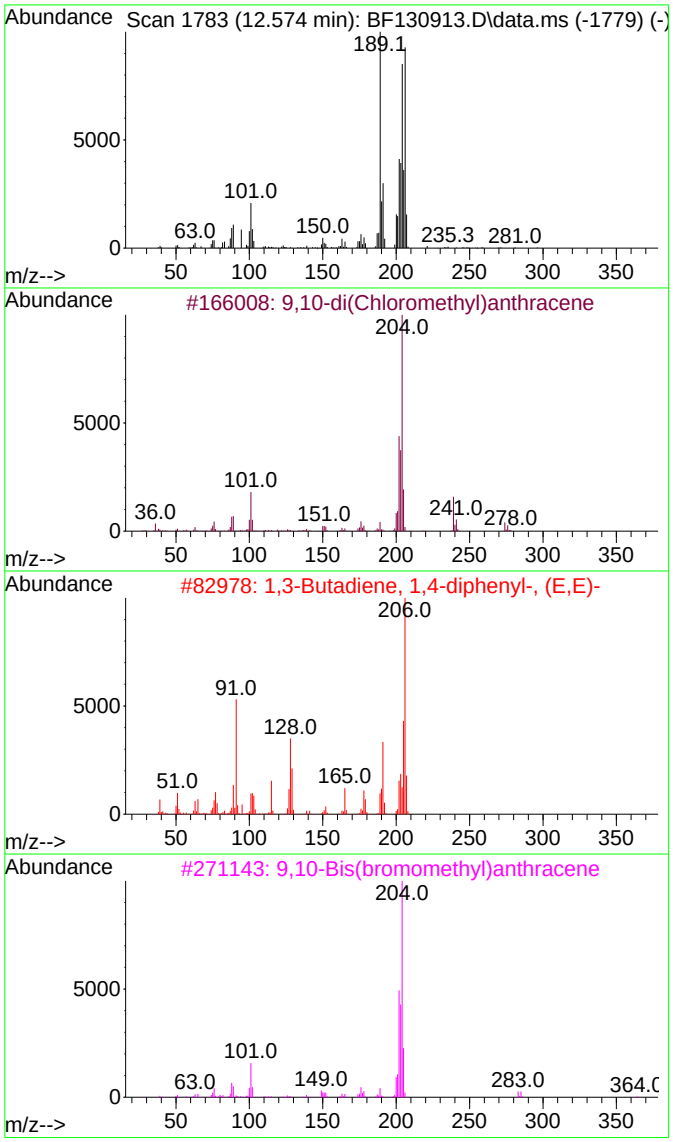
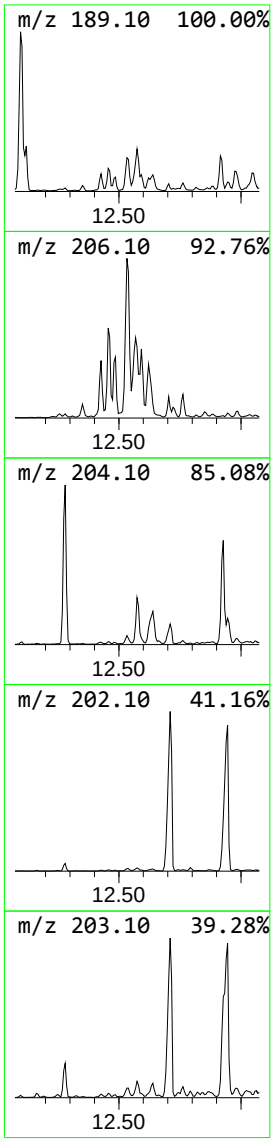
Peak Number 18 unknown12.574 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.574	23.73 ng	530782	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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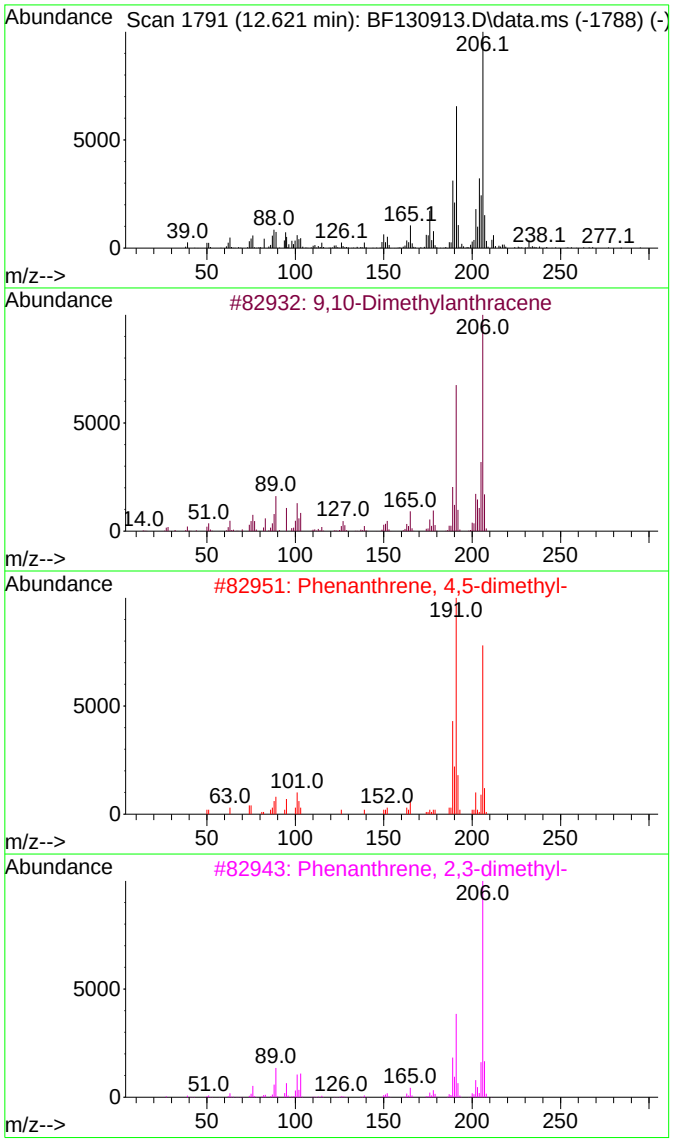
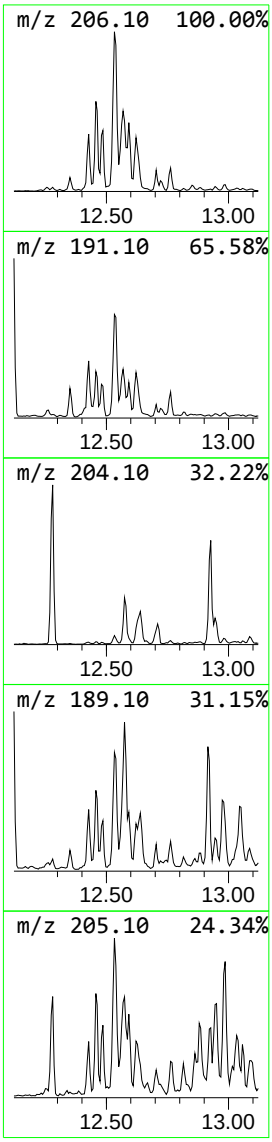
Peak Number 19 Phenanthrene, 4,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.621	21.74 ng	486187	Phenanthrene-d10	11.480

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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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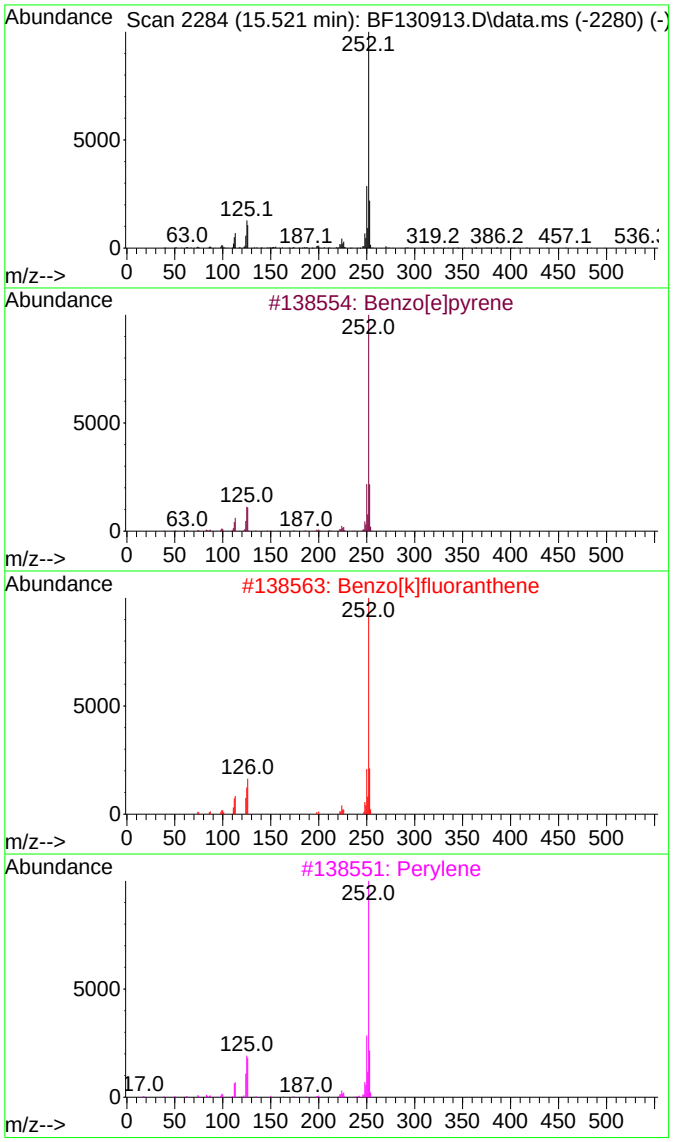
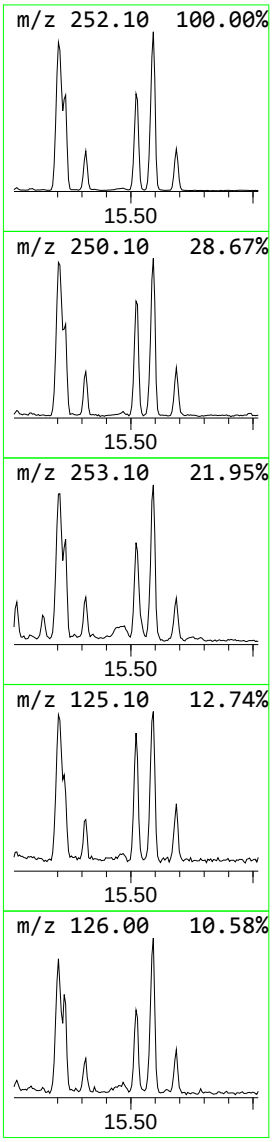
Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.521	37.55 ng	539509	Perylene-d12	15.651

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	96
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110122\
Data File : BF130913.D
Acq On : 01 Nov 2022 22:09
Operator : CG\JU
Sample : N5380-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-E

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102722.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
Butane, 2-metho...	2.251	14.5	ng	383094	1	6.934	527301	20.0
Naphthalene, 2,...	9.639	12.9	ng	301972	3	9.980	469732	20.0
[1,1'-Biphenyl]...	10.686	14.3	ng	336574	3	9.980	469732	20.0
Chamazulene	10.892	12.2	ng	272629	4	11.480	447325	20.0
9H-Fluorene, 2-...	11.080	23.5	ng	525505	4	11.480	447325	20.0
4-(4-Methylphen...	11.322	12.5	ng	279663	4	11.480	447325	20.0
Dibenzothiophene	11.374	24.1	ng	538690	4	11.480	447325	20.0
1-Methyldibenzo...	11.810	13.9	ng	311489	4	11.480	447325	20.0
Phenanthrene, 2...	11.986	54.5	ng	1219140	4	11.480	447325	20.0
Phenanthrene, 1...	12.015	59.7	ng	1335710	4	11.480	447325	20.0
1H-Cyclopropa[l...	12.063	23.7	ng	530502	4	11.480	447325	20.0
4H-Cyclopenta[d...	12.098	75.4	ng	1686520	4	11.480	447325	20.0
Phenanthrene, 4...	12.121	29.8	ng	666430	4	11.480	447325	20.0
5,16[1',2']:8,1...	12.280	26.1	ng	583585	4	11.480	447325	20.0
Phenanthrene, 3...	12.457	15.1	ng	338624	4	11.480	447325	20.0
Phenanthrene, 1...	12.480	13.9	ng	312071	4	11.480	447325	20.0
9,10-Dimethylan...	12.533	48.7	ng	1089250	4	11.480	447325	20.0
unknown12.574	12.574	23.7	ng	530782	4	11.480	447325	20.0
Phenanthrene, 4...	12.621	21.7	ng	486187	4	11.480	447325	20.0
Benzo[e]pyrene	15.521	37.5	ng	539509	6	15.651	287379	20.0