LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-03-122223

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-BF122023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF136781.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.840	294	298	302	rBV	12787	16345	1.72%	0.118%
2	5.416	563	566	578	rBV	252133	244923	25.71%	1.762%
3	6.422	734	737	749	rBV	256025	253150	26.57%	1.821%
4	6.781	795	798	802	rBV	517068	403549	42.36%	2.903%
5	7.340	890	893	897	rBV	205119	156996	16.48%	1.129%
6	8.057	1012	1015	1018	rBV	596001	498590	52.34%	3.587%
7	8.081	1018	1019	1022	rVB	75245	37493	3.94%	0.270%
8	8.769	1134	1136	1140	rBV	106625	88111	9.25%	0.634%
9	8.869	1148	1153	1157	rVB	138259	113044	11.87%	0.813%
10	9.134	1195	1198	1201	rBV	399779	291744	30.62%	2.099%
11	9.216	1209	1212	1214	rBV	14077	12306	1.29%	0.089%
12	9.334	1229	1232	1238	rVB	30422	38298	4.02%	0.276%
13	9.398	1239	1243	1247	rBV2	95998	123381	12.95%	0.888%
14	9.475	1252	1256	1258	rBV	167709	151579	15.91%	1.091%
15	9.498	1258	1260	1265	rVB	99802	80656	8.47%	0.580%
16	9.539	1265	1267	1272	rVB2	14162	11488	1.21%	0.083%
17	9.592	1272	1276	1277	rBV	80799	64685	6.79%	0.465%
18	9.675	1287	1290	1294	rVB	76970	63233	6.64%	0.455%
19	9.816	1307	1314	1317	rBV	588777	486331	51.05%	3.499%
20	9.845	1317	1319	1323	rVV	202217	174462	18.31%	1.255%
21	9.881	1323	1325	1328	rVB2	18141	18500	1.94%	0.133%
22	9.922	1328	1332	1336	rBV2	54546	69217	7.27%	0.498%
23	9.963	1336	1339	1343	rBV3	24314	37049	3.89%	0.267%
24	10.022	1343	1349	1352	rVV	116096	125539	13.18%	0.903%
25	10.057	1352	1355	1359	rVV	71873	57730	6.06%	0.415%
26	10.086	1359	1360	1364	rVB4	12168	10937	1.15%	0.079%
27	10.134	1364	1368	1371	rBV	60042	62691	6.58%	0.451%
28	10.163	1371	1373	1376	rVV	46480	31776	3.34%	0.229%
29	10.222	1379	1383	1385	rBV	38793	50333	5.28%	0.362%
30	10.239	1385	1386	1390	rVB3	32413	28426	2.98%	0.205%
31	10.316	1394	1399	1401	rBV4	30004	34387	3.61%	0.247%
32	10.363	1404	1407	1413	rVV	210836	198666	20.85%	1.429%
33	10.416	1413	1416	1417	rVV	32565	31238	3.28%	0.225%
34	10.428	1417	1418	1420	rVV	50916	40363	4.24%	0.290%
35	10.451	1420	1422	1424	rVV3	49535	46009	4.83%	0.331%
36	10.475	1424	1426	1429	rVV4	41928	43929	4.61%	0.316%

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
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Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

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-BF122023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.522	1431	1434	1438	rVB3	48263	55232	5.80%	0.397%
38	10.604	1445	1448	1452	rVB	167549	155240	16.30%	1.117%
39	10.733	1465	1470	1477	rVB2	67067	85351	8.96%	0.614%
40	10.804	1480	1482	1484	rBV	14829	13406	1.41%	0.096%
41	10.916	1496	1501	1503	rBV2	56760	74197	7.79%	0.534%
42	10.945	1503	1506	1509	rVB2	41295	40314	4.23%	0.290%
43	10.998	1513	1515	1518	rVB2	35629	28676	3.01%	0.206%
44	11.028	1518	1520	1521	rBV	17637	13755	1.44%	0.099%
45	11.045	1521	1523	1525	rBV2	18882	18488	1.94%	0.133%
46	11.110	1532	1534	1538	rVB2	37651	36231	3.80%	0.261%
47	11.157	1538	1542	1543	rBV4	21232	24830	2.61%	0.179%
48	11.175	1543	1545	1547	rVV2	38090	33708	3.54%	0.243%
49	11.204	1547	1550	1554	rVB	161061	138956	14.59%	1.000%
50	11.310	1564	1568	1570	rBV	469490	438888	46.07%	3.158%
51	11.333	1570	1572	1575	rVV	1017717	751293	78.86%	5.405%
52	11.386	1575	1581	1583	rVB	198785	186566	19.58%	1.342%
53	11.422	1583	1587	1589	rBV2	27436	34179	3.59%	0.246%
54	11.545	1605	1608	1614	rBV2	34063	56433	5.92%	0.406%
55	11.604	1616	1618	1620	rVV	69977	50170	5.27%	0.361%
56	11.639	1621	1624	1629	rVB	91812	91440	9.60%	0.658%
57	11.722	1633	1638	1642	rVB2	52215	76622	8.04%	0.551%
58	11.769	1643	1646	1648	rBV2	26982	26322	2.76%	0.189%
59	11.816	1650	1654	1656	rVV	200674	207527	21.78%	1.493%
60	11.839	1656	1658	1662	rVV	296253	260160	27.31%	1.872%
61	11.886	1663	1666	1669	rVV	79205	86788	9.11%	0.624%
62	11.922	1669	1672	1675	rVV	279714	312923	32.85%	2.251%
63	11.945	1675	1676	1680	rVB2	169773	119810	12.58%	0.862%
64	12.016	1685	1688	1691	rVB2	52539	44120	4.63%	0.317%
65	12.045	1691	1693	1696	rVB	38413	31815	3.34%	0.229%
66	12.080	1696	1699	1700	rBV3	24228	23130	2.43%	0.166%
67	12.110	1701	1704	1706	rVV2	104950	100283	10.53%	0.721%
68	12.139	1706	1709	1712	rVB	70162	72803	7.64%	0.524%
69	12.239	1724	1726	1728	rBV	47025	49071	5.15%	0.353%
70	12.263	1728	1730	1732	rVV2	52510	45439	4.77%	0.327%
71	12.292	1732	1735	1737	rVV2	87483	85945	9.02%	0.618%
72	12.316	1737	1739	1741	rVB2	52430	42436	4.45%	0.305%
73	12.363	1744	1747	1750	rBV	167413	175999	18.47%	1.266%
74	12.404	1750	1754	1759	rVB4	153518	218541	22.94%	1.572%
75	12.451	1759	1762	1766	rBV2	74930	91591	9.61%	0.659%
76	12.527	1772	1775	1779	rBV	784992	664510	69.75%	4.781%

LSC Area Percent Report

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Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-03-122223

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 >
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Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	12.575	1781	1783	1785	rBV	41141	35081	3.68%	0.252%
78	12.627	1789	1792	1794	rBV4	29849	40698	4.27%	0.293%
79	12.680	1799	1801	1804	rBV	61594	53455	5.61%	0.385%
80	12.763	1809	1815	1817	rBV	771239	855068	89.76%	6.152%
81	12.816	1821	1824	1828	rBV2	66278	74388	7.81%	0.535%
82	12.904	1836	1839	1847	rVB	282258	326573	34.28%	2.349%
83	12.975	1848	1851	1855	rBV2	79812	124478	13.07%	0.896%
84	13.033	1859	1861	1864	rBV4	33661	34622	3.63%	0.249%
85	13.086	1864	1870	1874	rVB	141568	223965	23.51%	1.611%
86	13.139	1876	1879	1880	rBV2	83966	74172	7.79%	0.534%
87	13.157	1880	1882	1884	rVB	77827	53224	5.59%	0.383%
88	13.192	1885	1888	1891	rVV2	118183	113443	11.91%	0.816%
89	13.286	1902	1904	1907	rVB	87762	65833	6.91%	0.474%
90	13.316	1907	1909	1912	rBV	86913	67985	7.14%	0.489%
91	13.486	1936	1938	1941	rBV4	70199	55345	5.81%	0.398%
92	13.598	1955	1957	1962	rVB2	88357	111757	11.73%	0.804%
93	13.716	1974	1977	1979	rBV2	65165	55926	5.87%	0.402%
94	13.816	1991	1994	2001	rVB3	117982	125289	13.15%	0.901%
95	13.963	2014	2019	2022	rBV3	549791	952642	100.00%	6.854%
96	13.992	2022	2024	2027	rVB	372327	271608	28.51%	1.954%
97	15.016	2195	2198	2201	rBV	202430	276531	29.03%	1.989%
98	15.321	2248	2250	2257	rVB	121043	135804	14.26%	0.977%
99	15.386	2258	2261	2267	rVB	194407	244776	25.69%	1.761%
100	15.451	2268	2272	2275	rBV	219226	266779	28.00%	1.919%

Sum of corrected areas: 13899784

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
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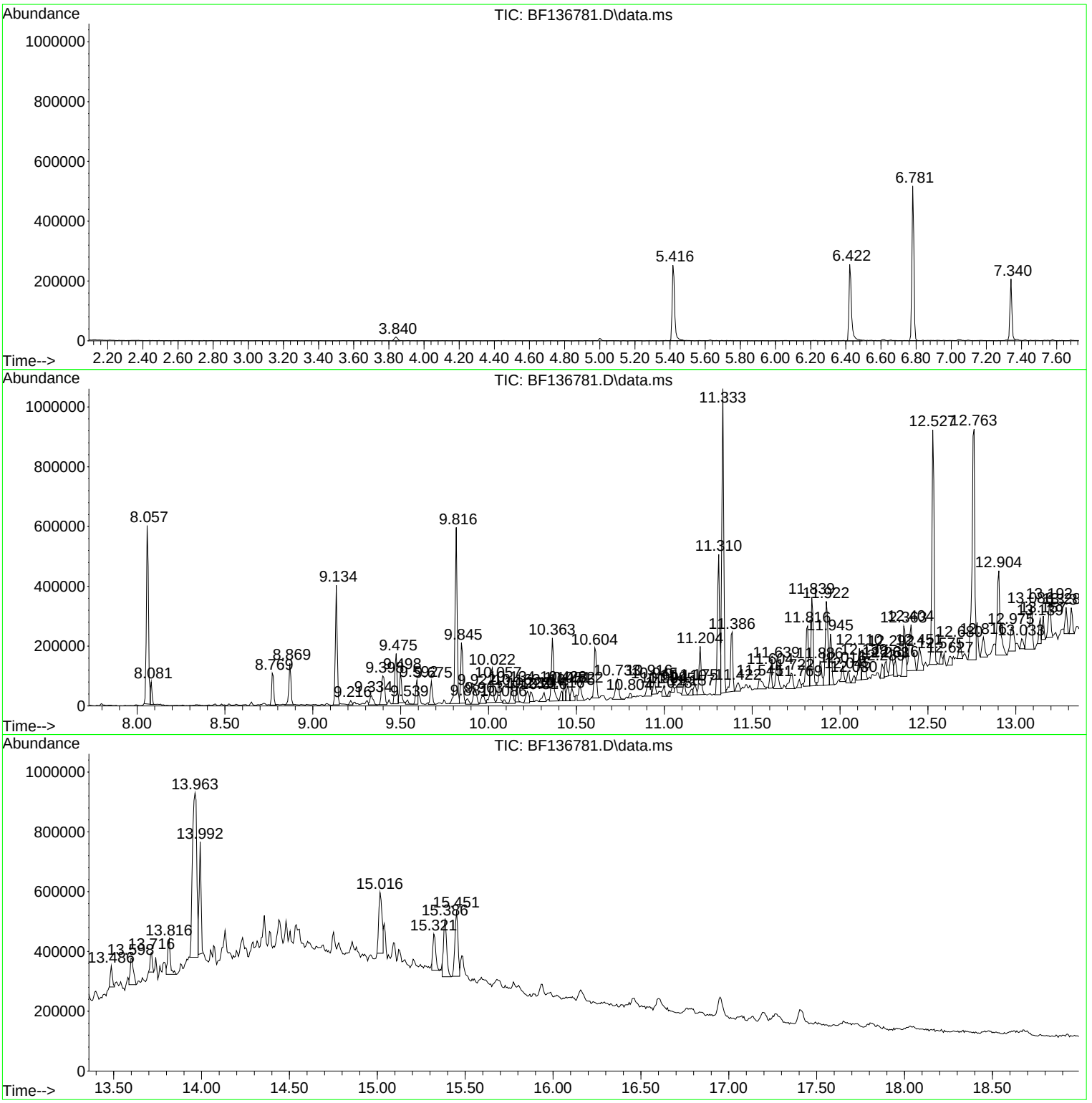
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
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Misc :
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Instrument :
BNA_F
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

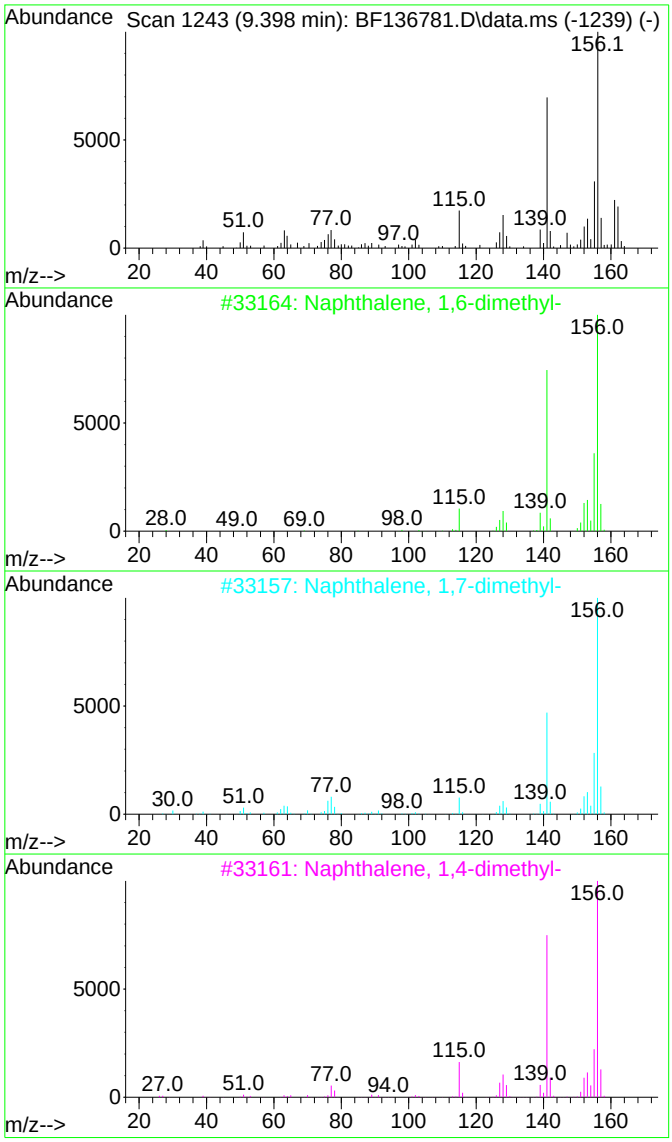
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

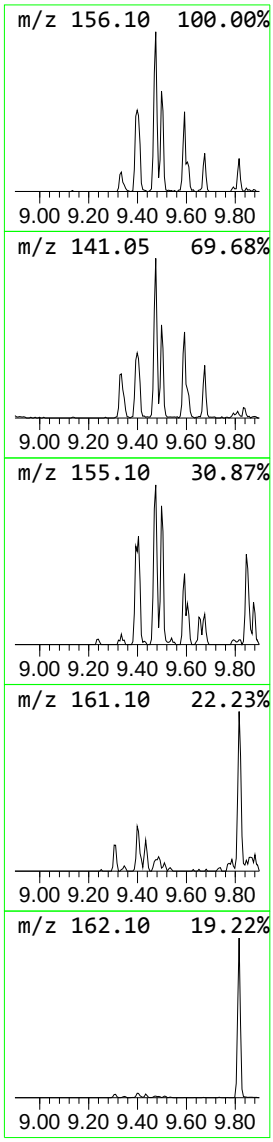
****

Peak Number 1 Naphthalene, 1,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.398	5.07 ng	123381	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
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ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

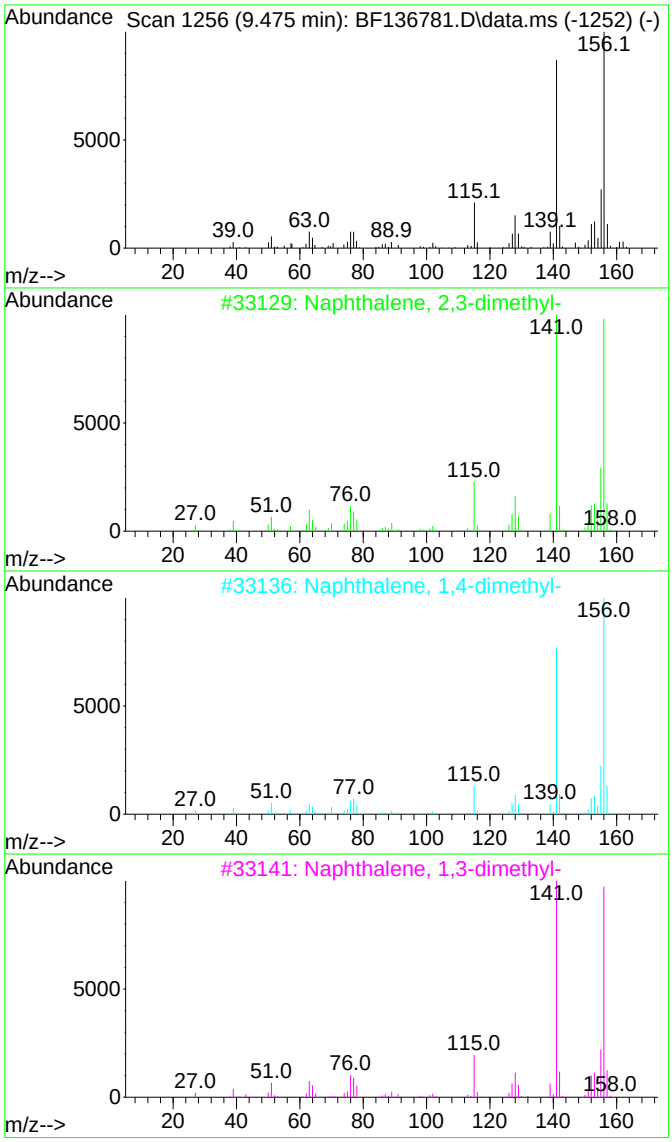
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

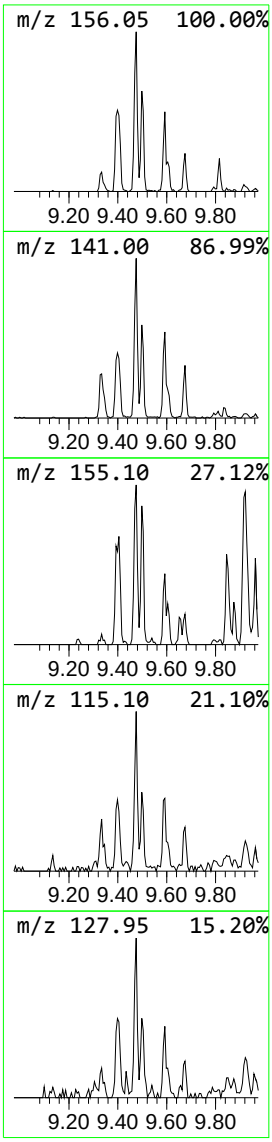
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.475	6.23 ng	151579	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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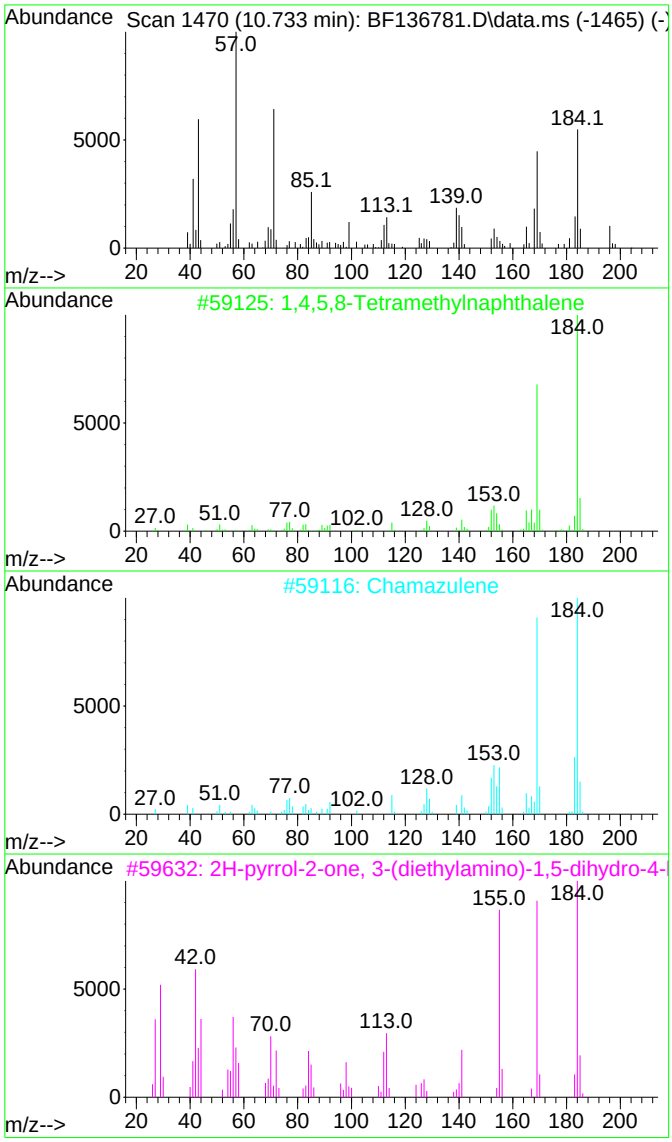
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

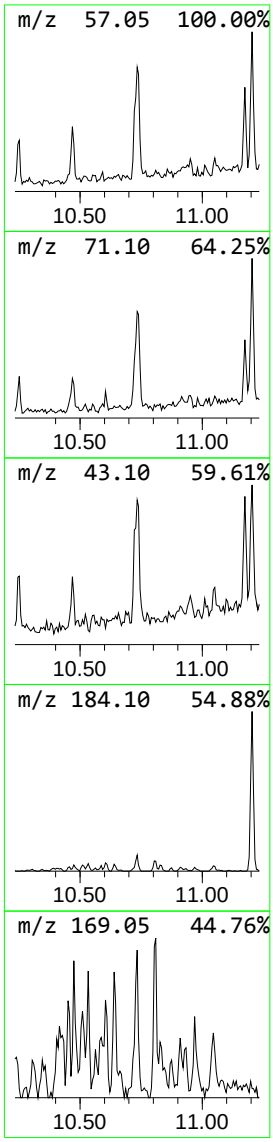
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 1,4,5,8-Tetramethylnaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.733	3.89 ng	85351	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	55
2	Chamazulene	184	C14H16	000529-05-5	49
3	2H-pyrrol-2-one, 3-(diethylamino...	184	C9H16N2O2	1010404-92-1	38
4	Tridecane, 3-methyl-	198	C14H30	006418-41-3	38
5	Decane, 2-methyl-	156	C11H24	006975-98-0	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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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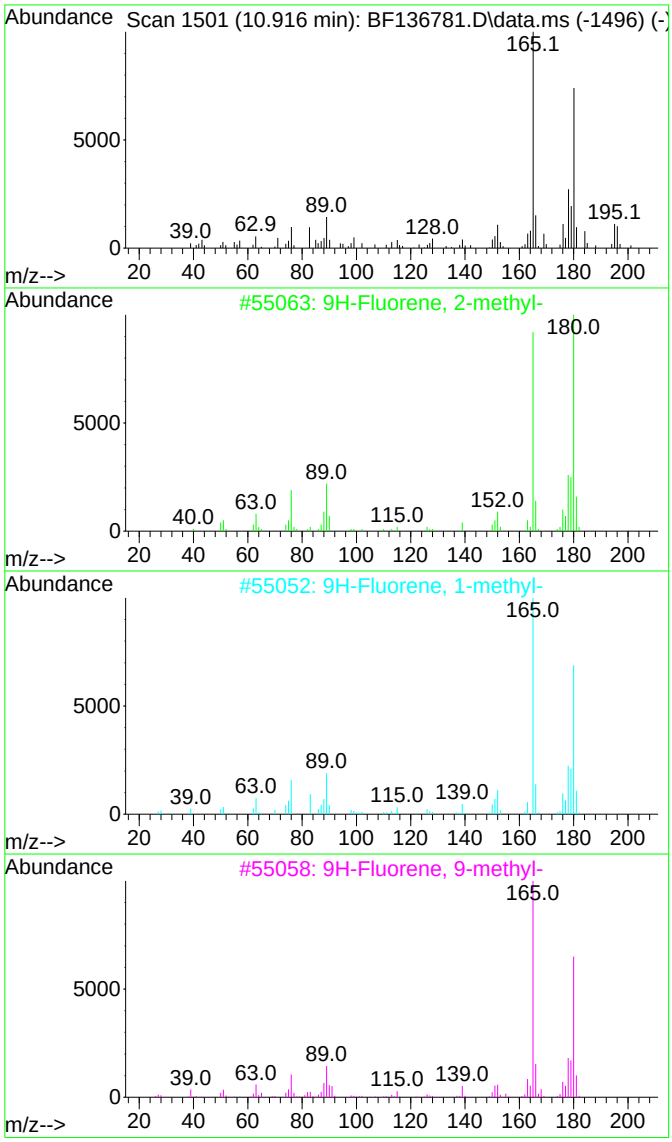
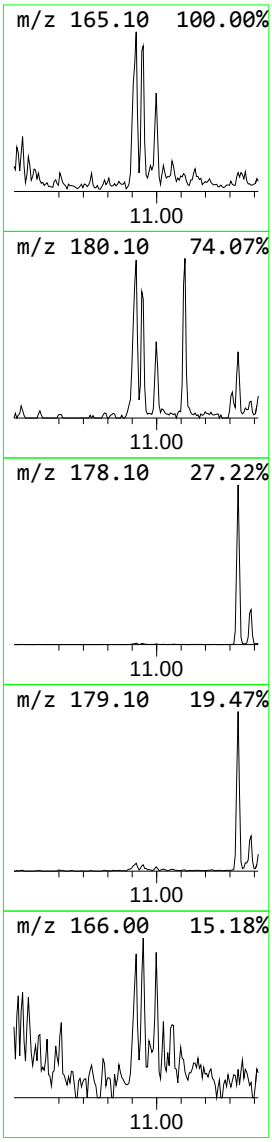
Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.916	3.38 ng	74197	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	95
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	70
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

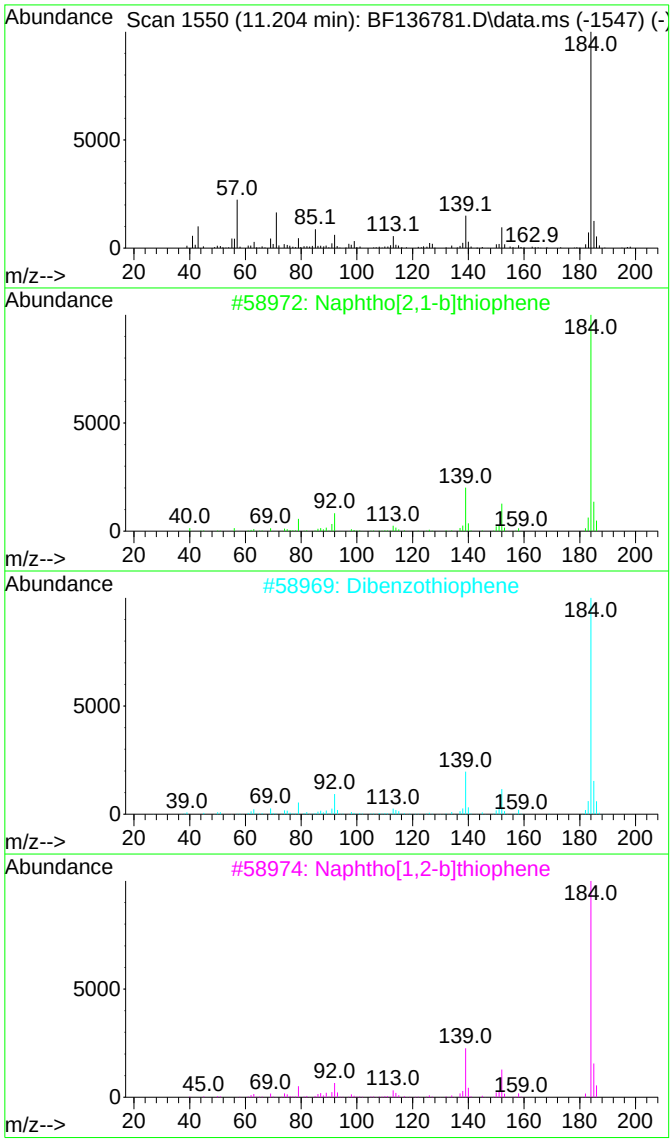
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

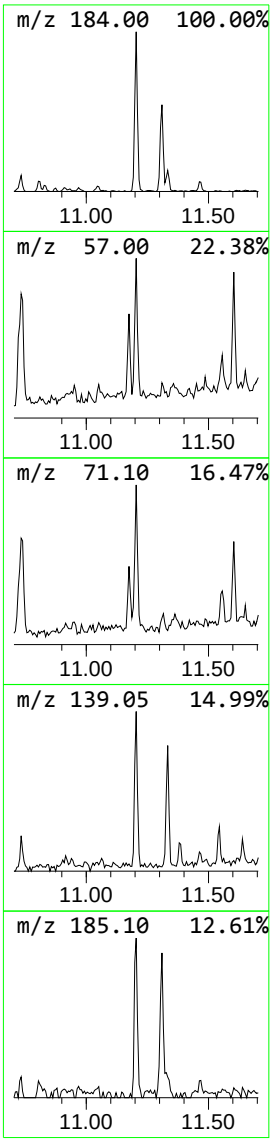
****

Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.204	6.33 ng	138956	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

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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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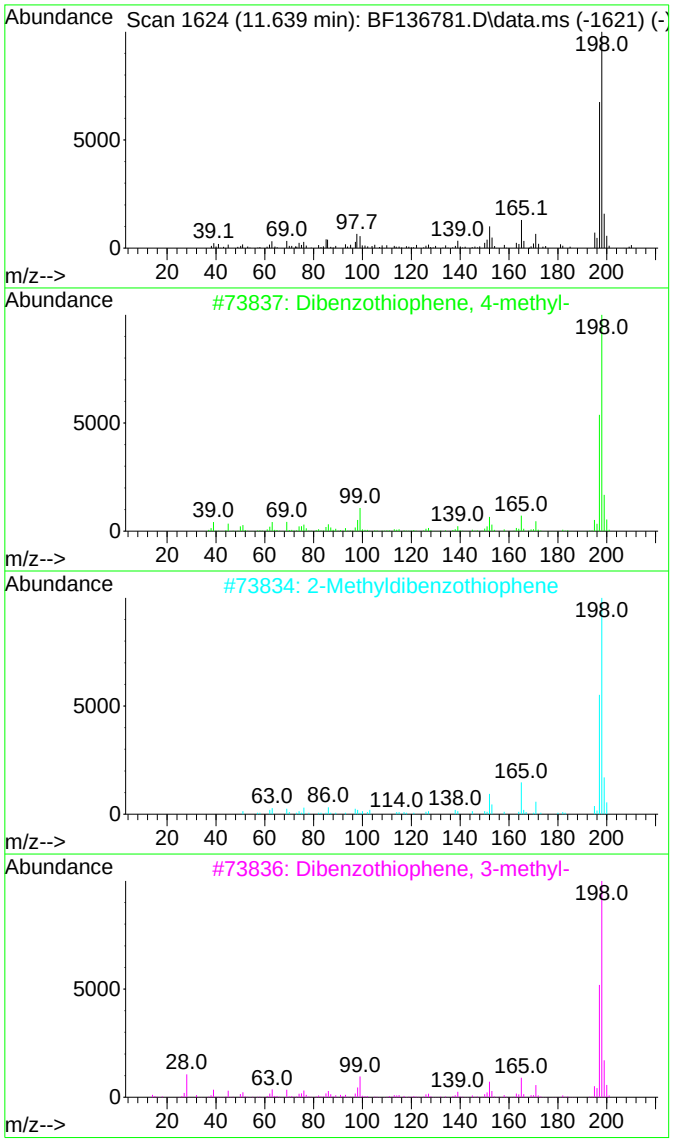
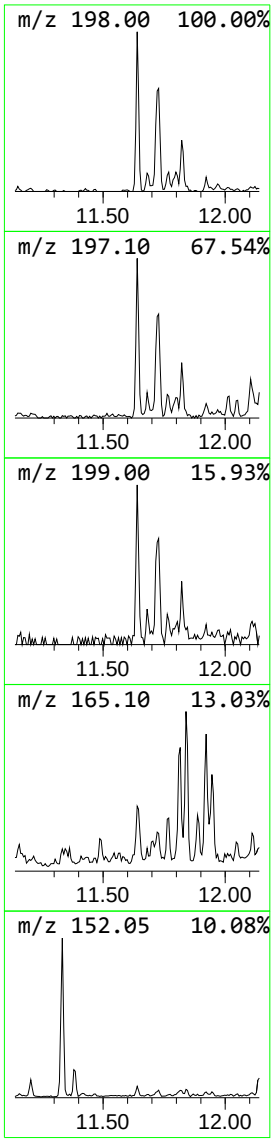
Peak Number 6 Dibenzothiophene, 4-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.639	4.17 ng	91440	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	97
2	2-Methyldibenzothiophene	198	C13H10S	1000383-55-1	95
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	95
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	87





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Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

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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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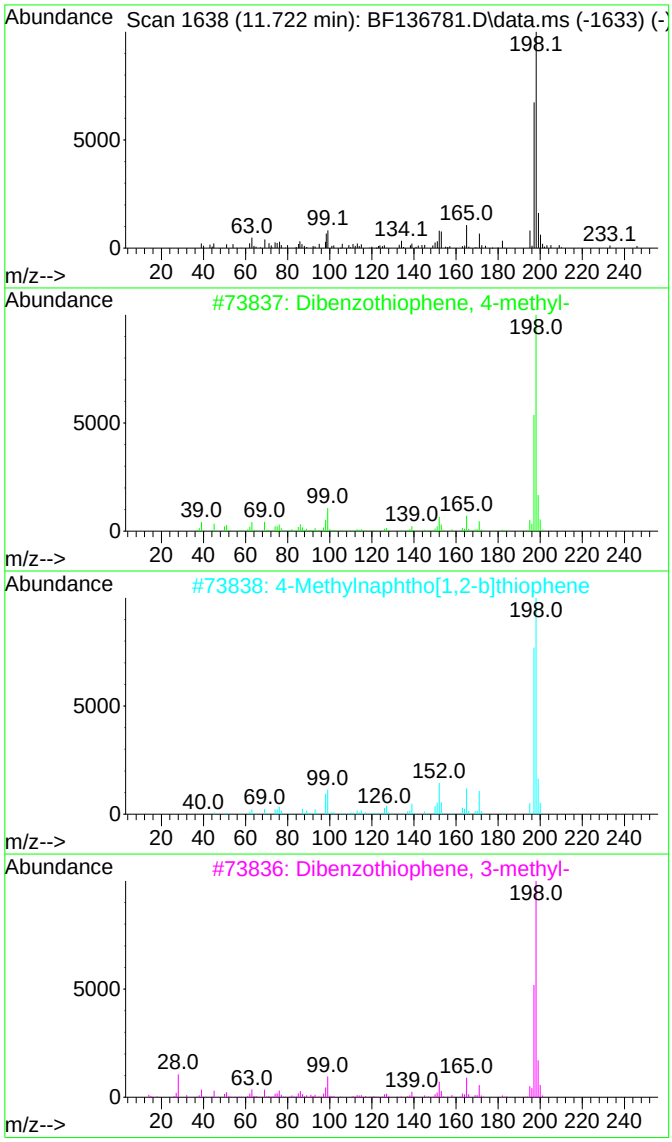
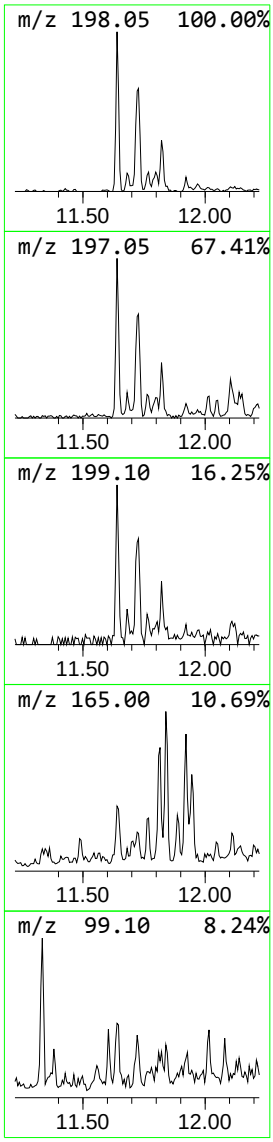
Peak Number 7 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.722	3.49 ng	76622	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	94
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	90
4	Benzene, 1-methoxy-4-(phenylmeth...	198	C14H14O	000834-14-0	80
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80





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Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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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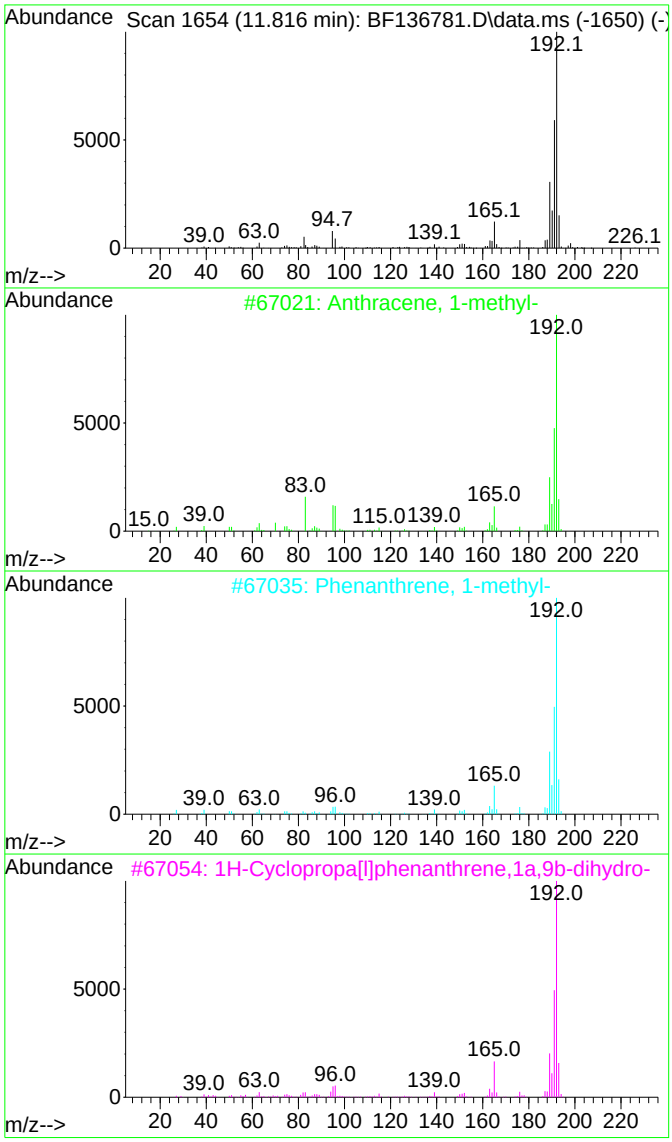
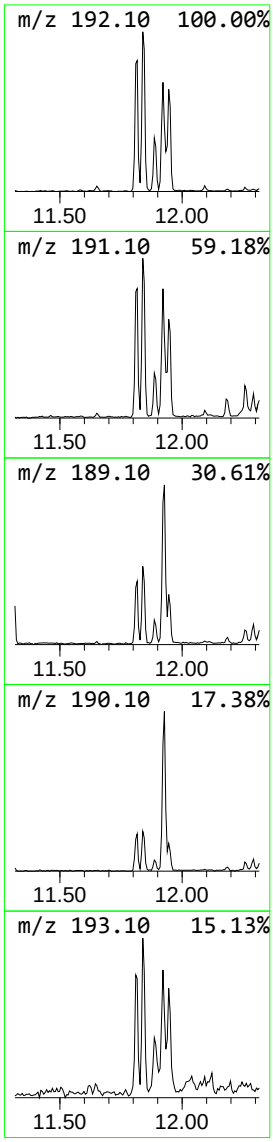
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.816	9.46 ng	207527	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87





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Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

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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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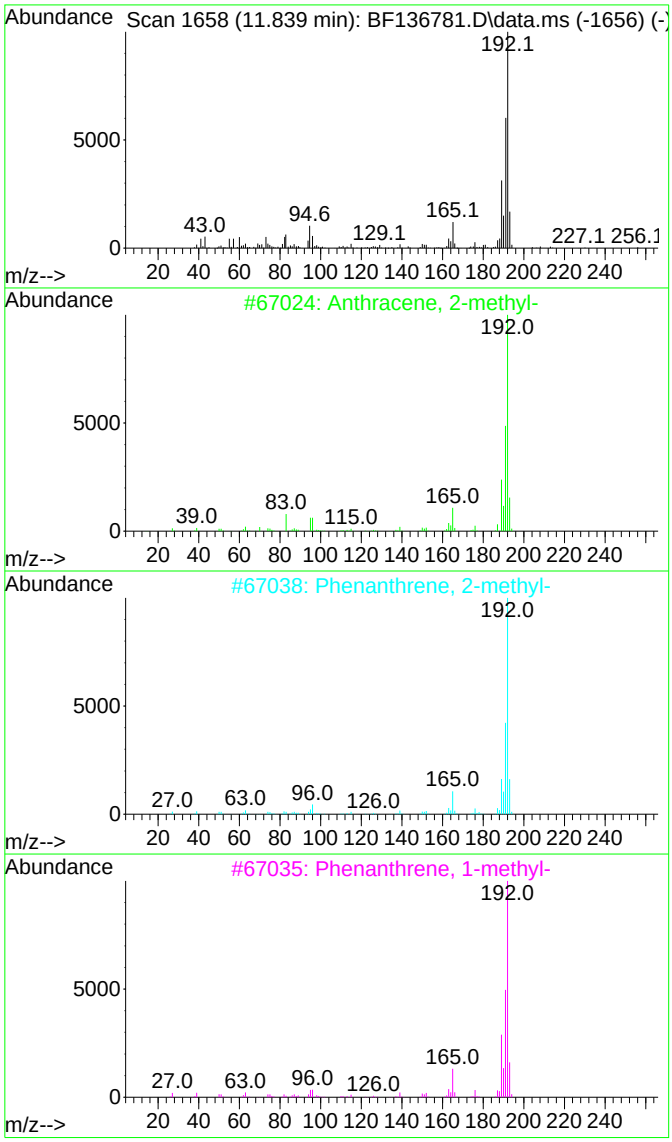
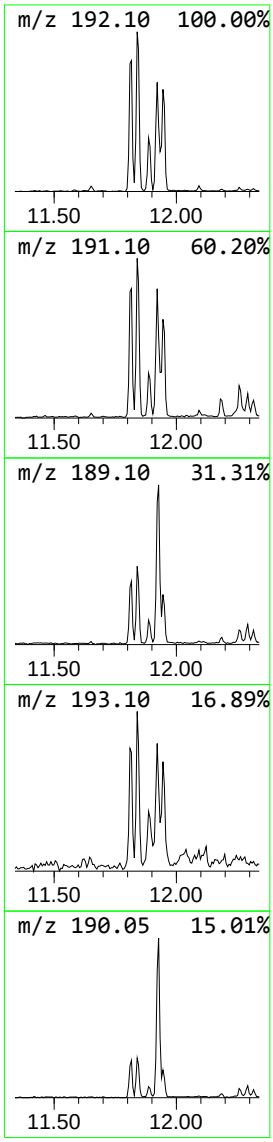
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.839	11.86 ng	260160	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





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Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

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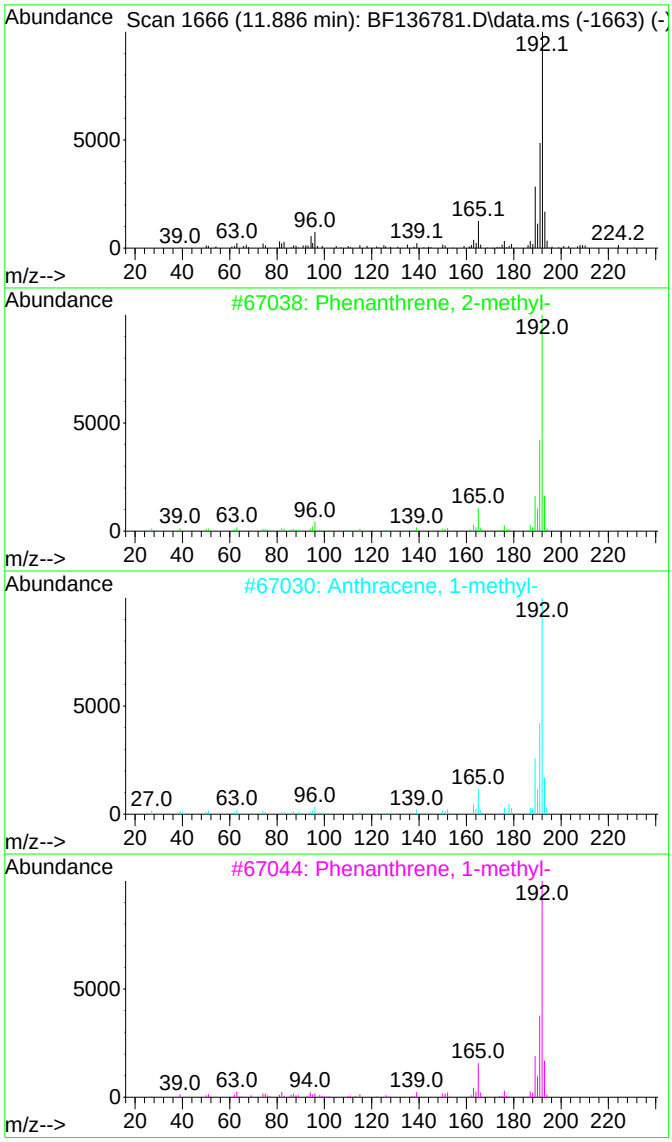
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

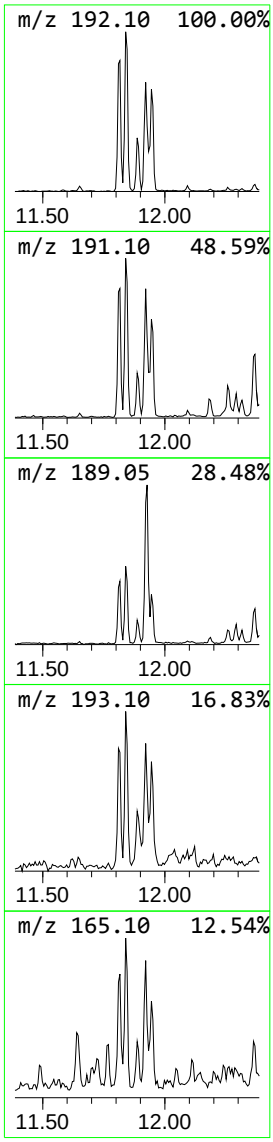
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.886	3.95 ng	86788	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	92
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	90





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Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

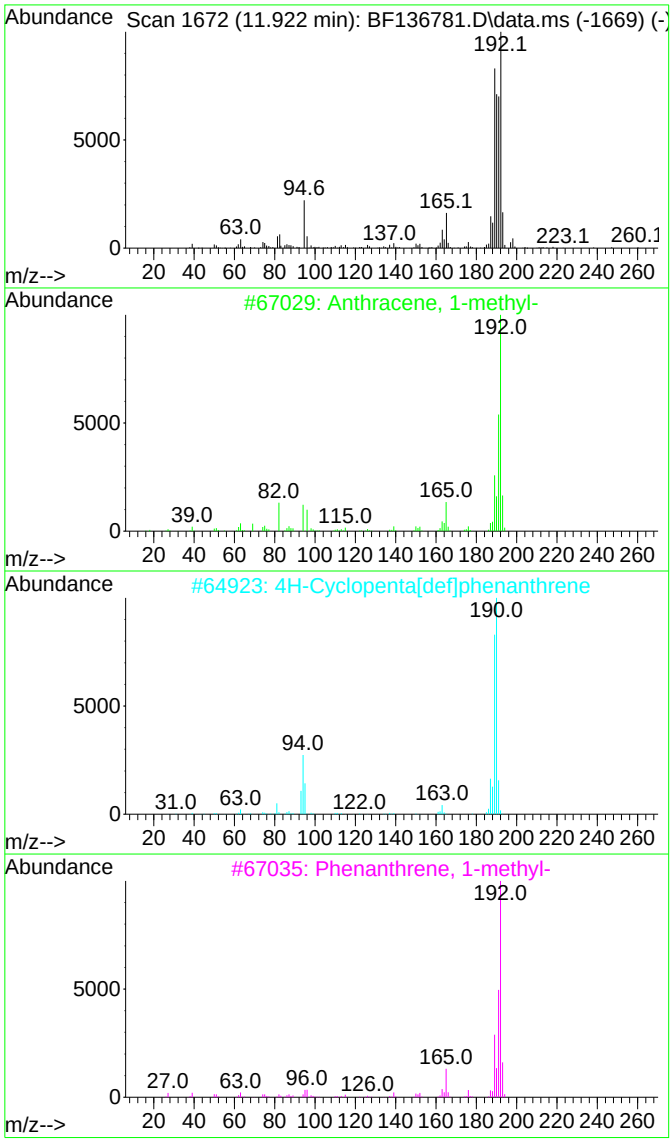
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

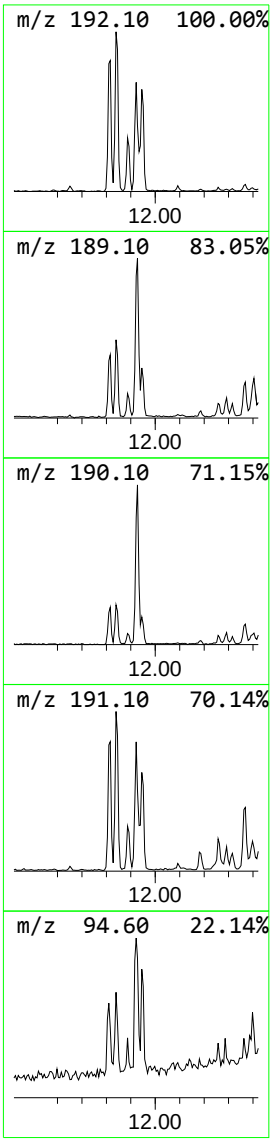
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	14.26 ng	312923	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	50
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	50
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	50





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Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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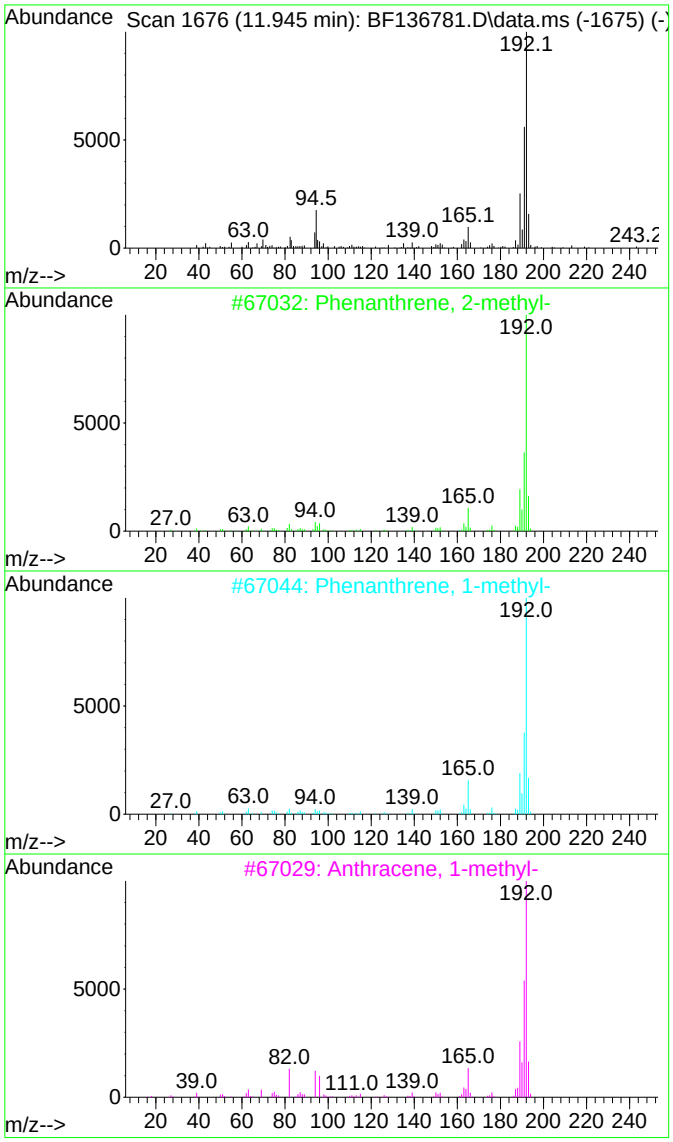
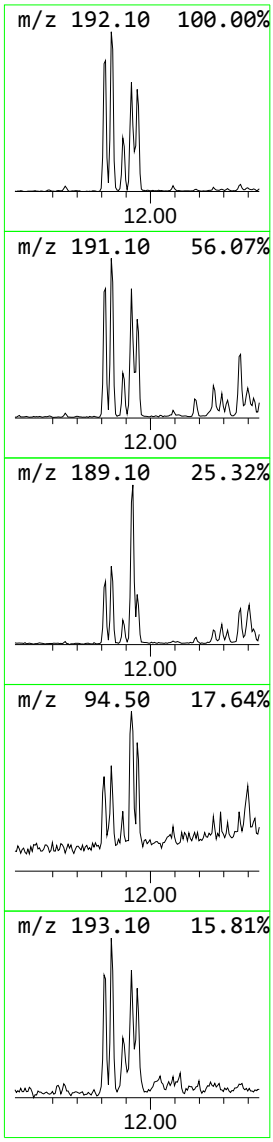
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.46 ng	119810	Phenanthrene-d10	11.310

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	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	89
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	81





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Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

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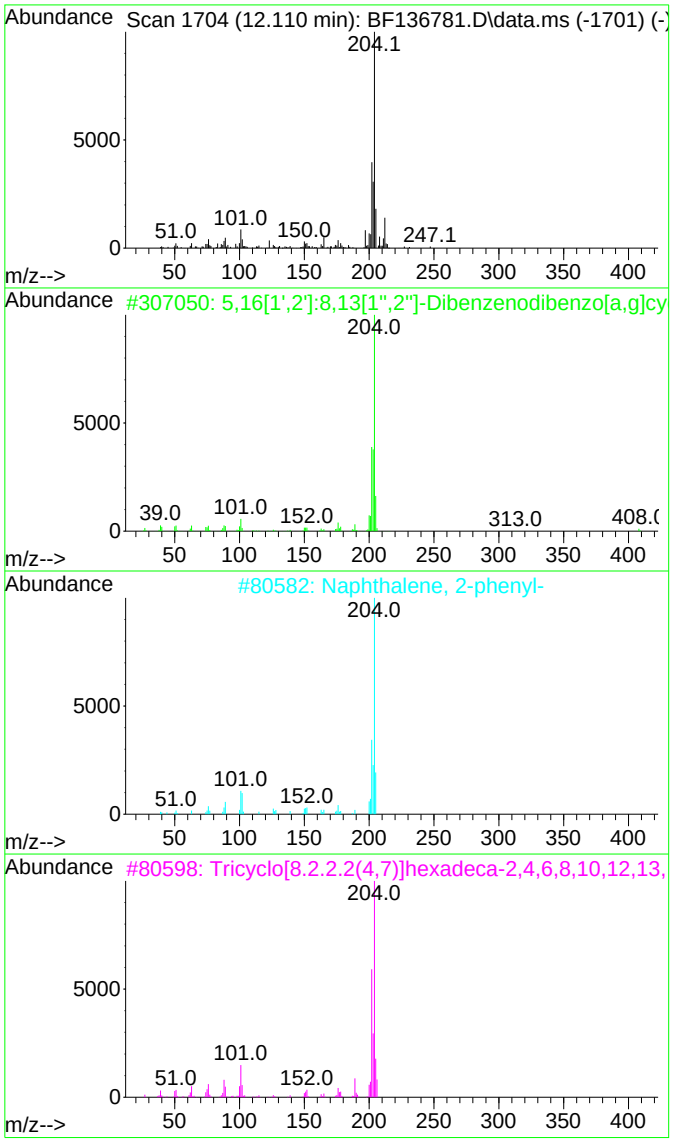
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

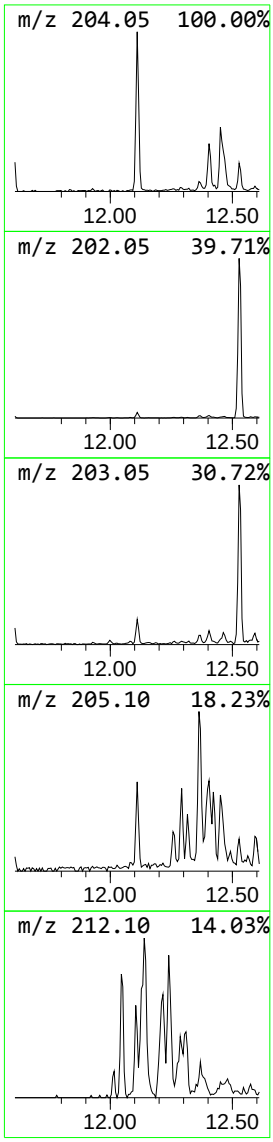
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.110	4.57 ng	100283	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	46
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	45





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Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-03-122223

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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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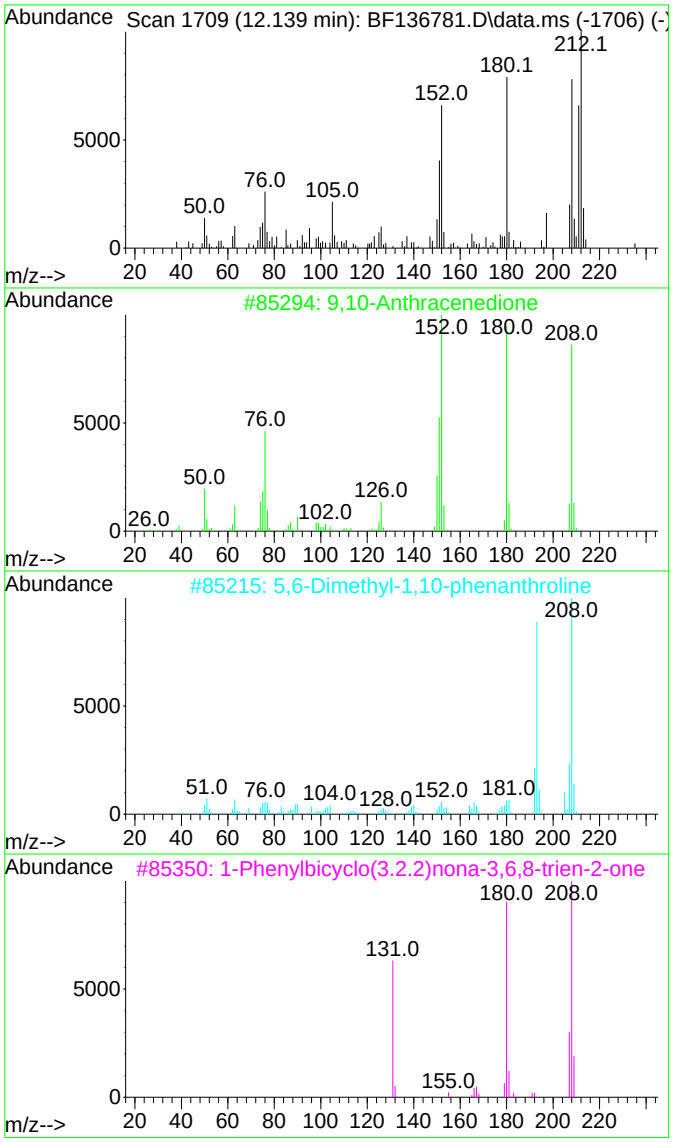
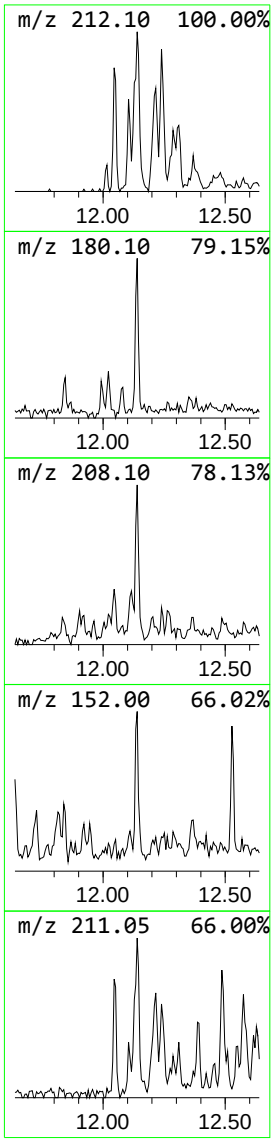
Peak Number 14 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.139	3.32 ng	72803	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	90
2	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	41
3	1-Phenylbicyclo(3.2.2)nona-3,6,8...	208	C15H12O	1010427-19-9	41
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	38
5	2-(Dicyanomethylene)indene-1,3-d...	208	C12H4N2O2	016954-74-8	38





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ALS Vial : 21 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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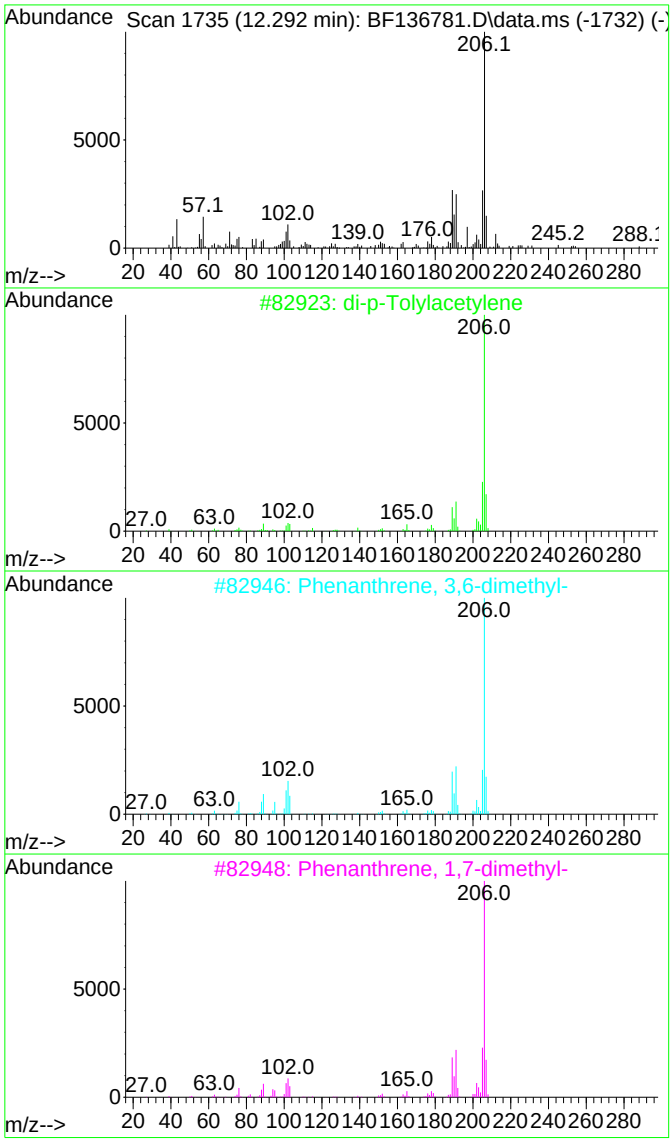
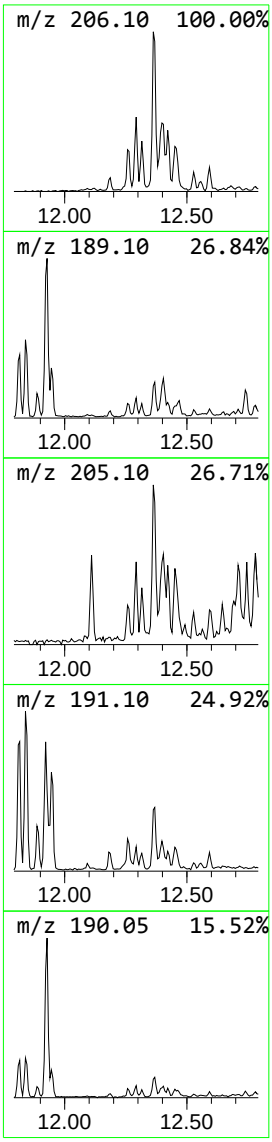
Peak Number 15 di-p-Tolylacetylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.292	3.92 ng	85945	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	59





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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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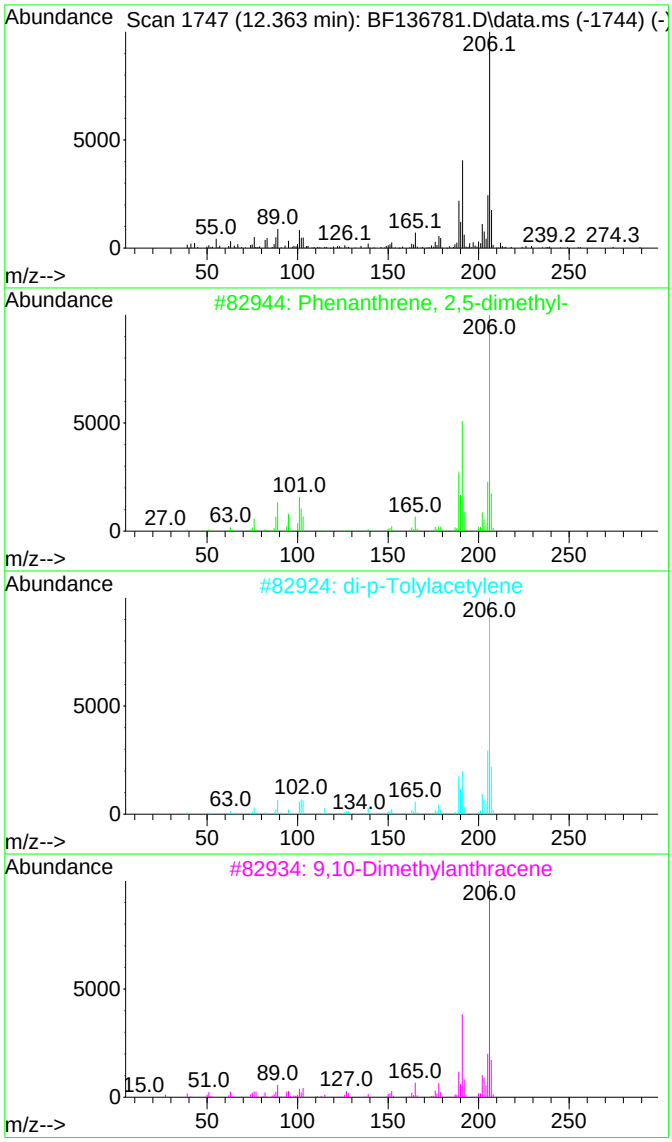
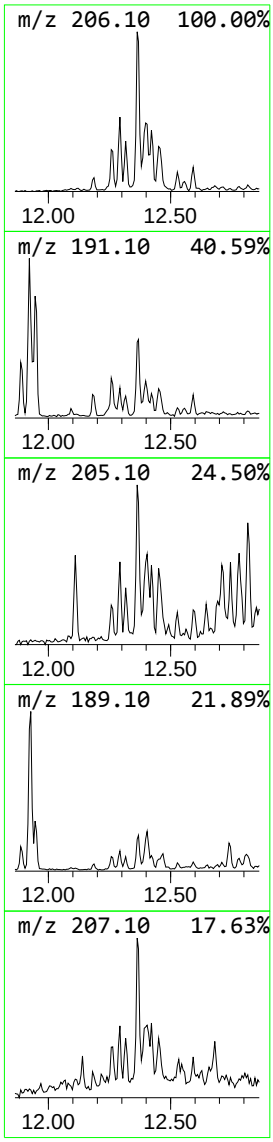
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.363	8.02 ng	175999	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93





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Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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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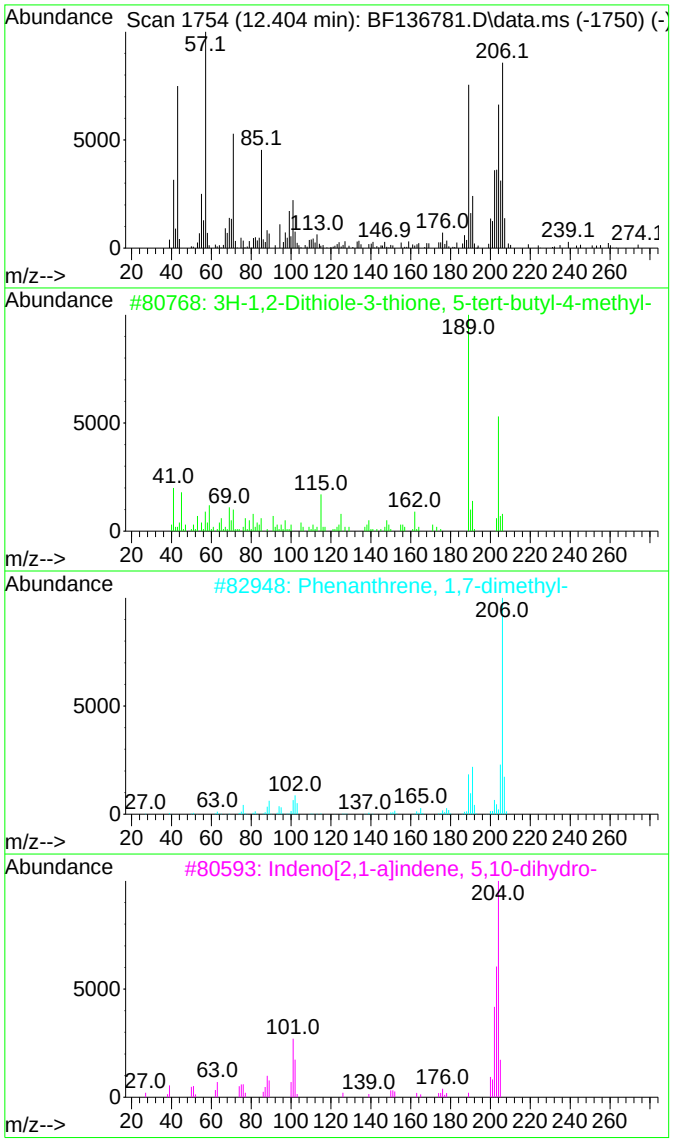
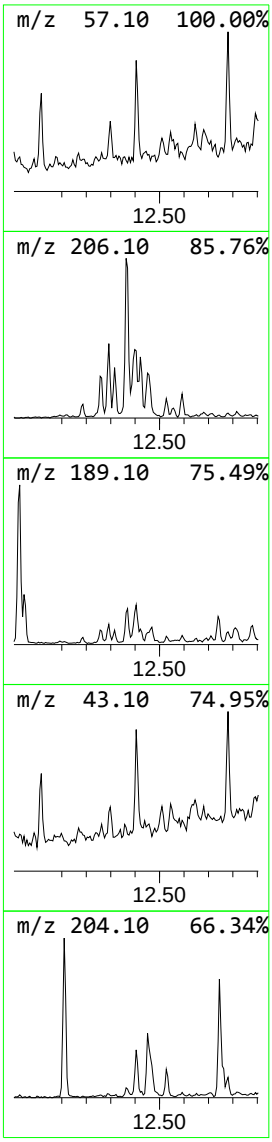
Peak Number 17 unknown12.404 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.404	9.96 ng	218541	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3H-1,2-Dithiole-3-thione, 5-tert...	204	C8H12S3	013120-76-8	30
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	25
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	25
4	2,3-Dimethoxy-5-aminocinnamonitrile	204	C11H12N2O2	1000214-46-5	18
5	7-Methoxy-6-methyl-2,4-pteridine...	206	C8H10N6O	343347-40-0	18





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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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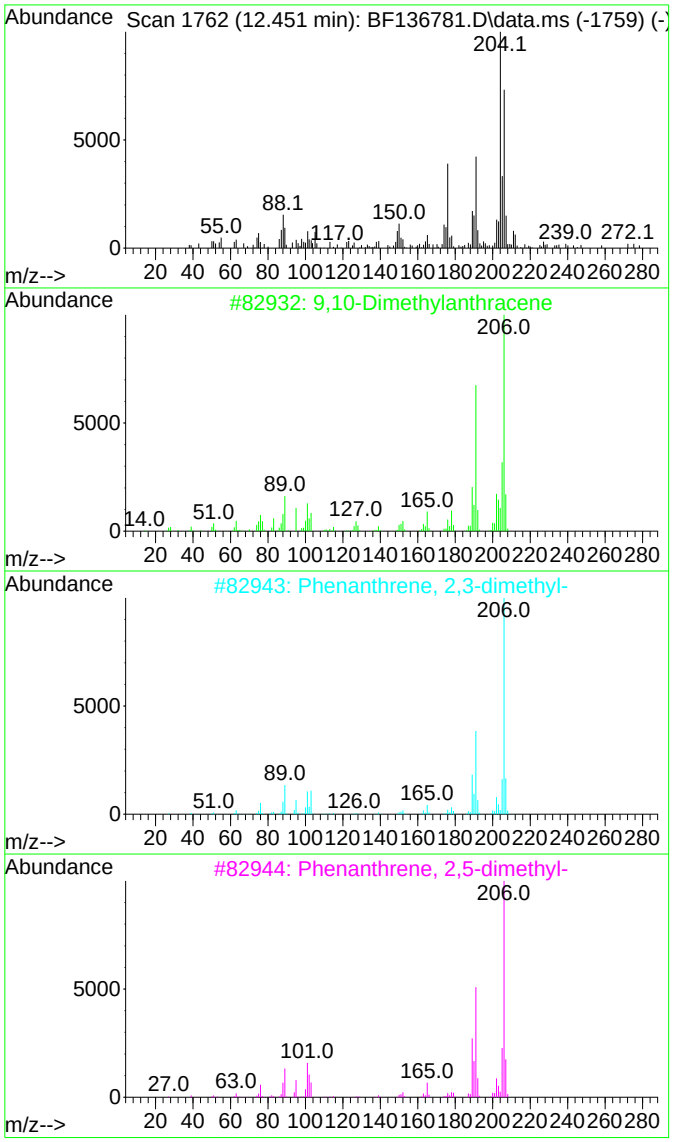
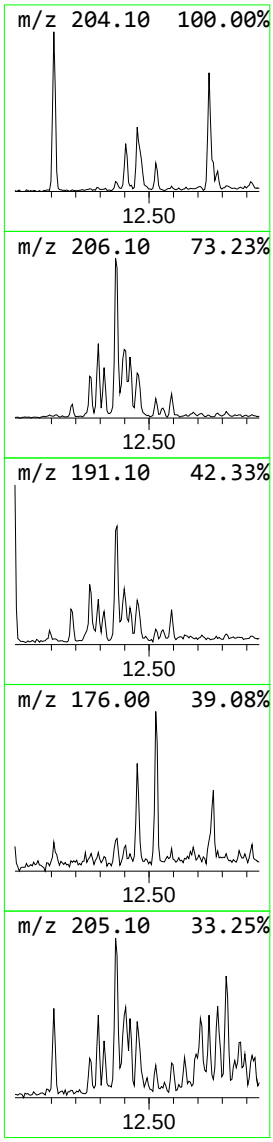
Peak Number 18 9,10-Dimethylanthracene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.451	4.17 ng	91591	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	50
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	50
4	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	50
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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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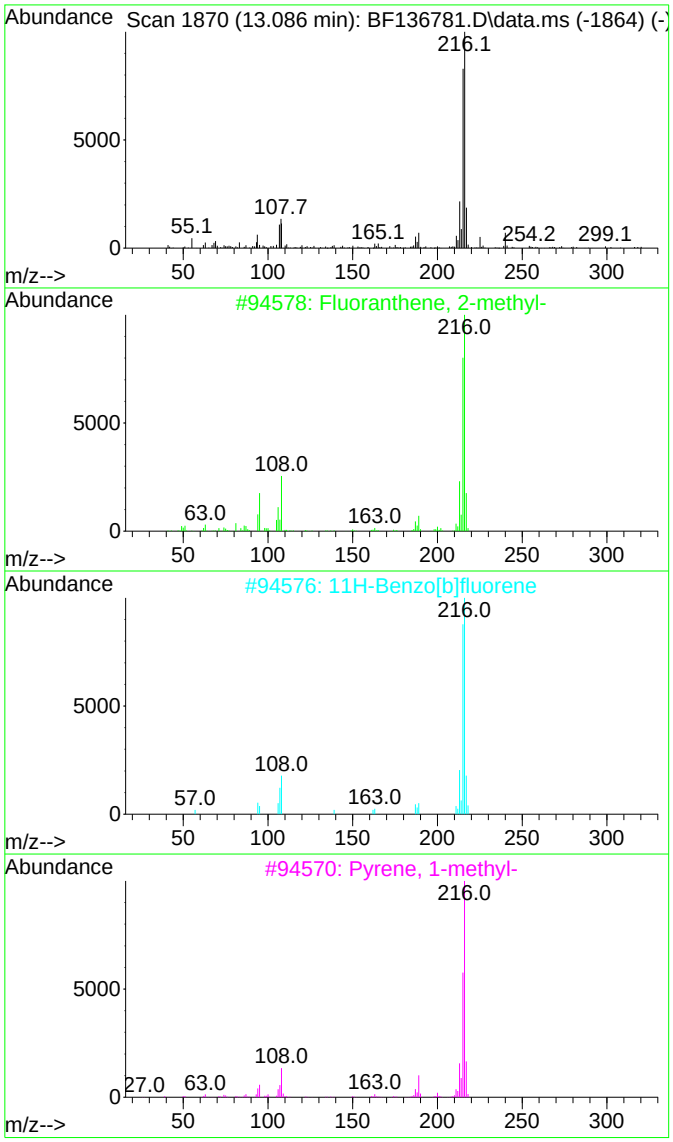
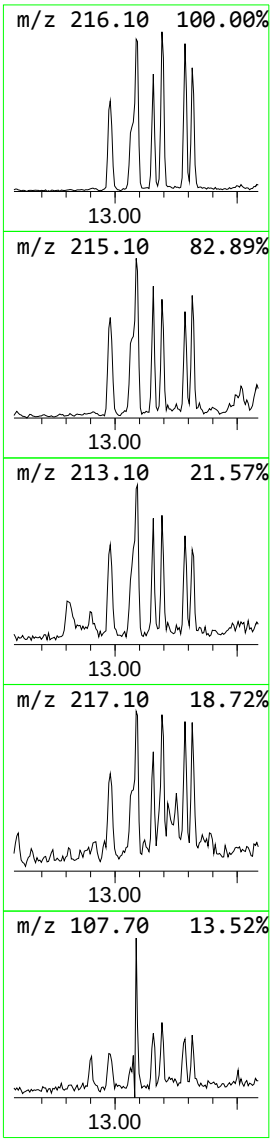
Peak Number 19 Fluoranthene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.086	4.70 ng	223965	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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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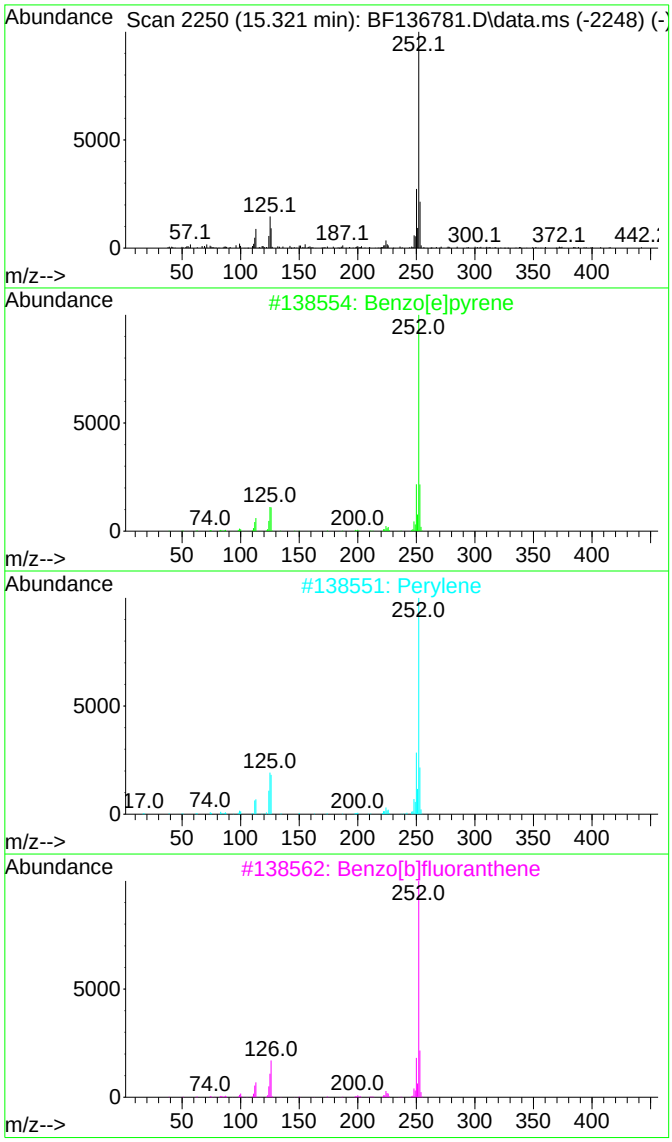
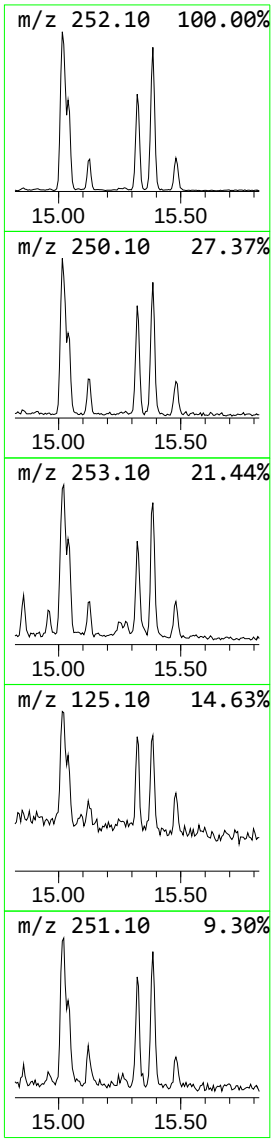
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.321	10.18 ng	135804	Perylene-d12	15.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Perylene	252	C20H12	000198-55-0	90
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	90
4	Benzo[a]pyrene	252	C20H12	000050-32-8	83
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122723\
Data File : BF136781.D
Acq On : 28 Dec 2023 03:09
Operator : CG\JU
Sample : 06011-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-03-122223

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.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
Naphthalene, 1,...	9.398	5.1	ng	123381	3	9.816	486331	20.0
Naphthalene, 2,...	9.475	6.2	ng	151579	3	9.816	486331	20.0
1,4,5,8-Tetrame...	10.733	3.9	ng	85351	4	11.310	438888	20.0
9H-Fluorene, 2-...	10.916	3.4	ng	74197	4	11.310	438888	20.0
Naphtho[2,1-b]t...	11.204	6.3	ng	138956	4	11.310	438888	20.0
Dibenzothiophen...	11.639	4.2	ng	91440	4	11.310	438888	20.0
4-Methylnaphtho...	11.722	3.5	ng	76622	4	11.310	438888	20.0
Anthracene, 1-m...	11.816	9.5	ng	207527	4	11.310	438888	20.0
Anthracene, 2-m...	11.839	11.9	ng	260160	4	11.310	438888	20.0
Phenanthrene, 2...	11.886	4.0	ng	86788	4	11.310	438888	20.0
4H-Cyclopenta[d...	11.922	14.3	ng	312923	4	11.310	438888	20.0
Phenanthrene, 1...	11.945	5.5	ng	119810	4	11.310	438888	20.0
5,16[1',2']:8,1...	12.110	4.6	ng	100283	4	11.310	438888	20.0
9,10-Anthracene...	12.139	3.3	ng	72803	4	11.310	438888	20.0
di-p-Tolylacety...	12.292	3.9	ng	85945	4	11.310	438888	20.0
Phenanthrene, 2...	12.363	8.0	ng	175999	4	11.310	438888	20.0
unknown12.404	12.404	10.0	ng	218541	4	11.310	438888	20.0
9,10-Dimethylan...	12.451	4.2	ng	91591	4	11.310	438888	20.0
Fluoranthene, 2...	13.086	4.7	ng	223965	5	13.969	952642	20.0
Benzo[e]pyrene	15.321	10.2	ng	135804	6	15.451	266779	20.0