LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

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-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.093	508	511	519	rVB2	65671	87229	1.35%	0.120%
2	5.522	581	584	593	rVB	1327383	1182567	18.35%	1.625%
3	6.528	751	755	770	rBV	1320408	1110000	17.22%	1.525%
4	6.663	774	778	782	rBV	1375239	1098061	17.04%	1.508%
5	6.886	813	816	820	rBV	899815	731964	11.36%	1.006%
6	7.045	839	843	846	rBV	1064181	864806	13.42%	1.188%
7	7.445	907	911	914	rBV	726480	647192	10.04%	0.889%
8	8.169	1029	1034	1037	rBV	1165572	1036004	16.08%	1.423%
9	8.192	1037	1038	1041	rVB	156764	81421	1.26%	0.112%
10	8.880	1153	1155	1158	rBV	120112	116737	1.81%	0.160%
11	8.916	1158	1161	1169	rVV	104969	208097	3.23%	0.286%
12	8.980	1169	1172	1176	rVB	110626	106684	1.66%	0.147%
13	9.245	1213	1217	1220	rBV	1444628	1209143	18.76%	1.661%
14	9.586	1271	1275	1277	rVV	86348	88381	1.37%	0.121%
15	9.633	1281	1283	1288	rVV2	122929	126925	1.97%	0.174%
16	9.786	1306	1309	1314	rBV	148065	135991	2.11%	0.187%
17	9.927	1326	1333	1336	rBV	1133543	1010875	15.69%	1.389%
18	9.957	1336	1338	1341	rVB	564368	433646	6.73%	0.596%
19	10.127	1363	1367	1371	rVB	210463	196529	3.05%	0.270%
20	10.475	1422	1426	1432	rVB	420560	370251	5.75%	0.509%
21	10.539	1432	1437	1439	rBV2	70645	90017	1.40%	0.124%
22	10.627	1450	1452	1456	rVB	76982	71386	1.11%	0.098%
23	10.716	1461	1467	1471	rBV	835432	780809	12.12%	1.073%
24	10.839	1481	1488	1494	rVB4	111612	182466	2.83%	0.251%
25	11.022	1515	1519	1522	rBV2	82769	80978	1.26%	0.111%
26	11.151	1536	1541	1543	rBV2	51412	76305	1.18%	0.105%
27	11.310	1565	1568	1573	rVB	203946	192115	2.98%	0.264%
28	11.416	1582	1586	1587	rBV	853941	787713	12.22%	1.082%
29	11.439	1587	1590	1593	rVV	2895734	2424606	37.62%	3.331%
30	11.486	1595	1598	1601	rVV	836182	721755	11.20%	0.991%
31	11.522	1601	1604	1607	rVB2	120257	123936	1.92%	0.170%
32	11.639	1618	1624	1627	rBV	394954	431856	6.70%	0.593%
33	11.704	1632	1635	1639	rVV3	137004	143637	2.23%	0.197%
34	11.745	1639	1642	1646	rVV3	88725	93165	1.45%	0.128%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
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Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.916	1667	1671	1673	rBV	346616	366746	5.69%	0.504%
36	11.939	1673	1675	1680	rVB2	738813	712984	11.06%	0.979%
37	11.992	1680	1684	1686	rBV	189680	181194	2.81%	0.249%
38	12.027	1686	1690	1693	rVV	1056707	1059270	16.44%	1.455%
39	12.051	1693	1694	1698	rVB	260151	128586	2.00%	0.177%
40	12.210	1718	1721	1723	rBV	305137	258215	4.01%	0.355%
41	12.233	1723	1725	1729	rVB2	259179	213496	3.31%	0.293%
42	12.357	1744	1746	1749	rVB2	78612	65735	1.02%	0.090%
43	12.392	1749	1752	1754	rBV	107305	87946	1.36%	0.121%
44	12.416	1754	1756	1758	rVB2	103016	80388	1.25%	0.110%
45	12.468	1761	1765	1767	rBV	254548	305286	4.74%	0.419%
46	12.510	1767	1772	1776	rVB4	352521	561185	8.71%	0.771%
47	12.551	1776	1779	1784	rVB	247014	265566	4.12%	0.365%
48	12.639	1788	1794	1797	rBV	5753118	6278878	97.43%	8.625%
49	12.692	1800	1803	1805	rVB2	131355	121782	1.89%	0.167%
50	12.721	1805	1808	1811	rVB2	160451	135745	2.11%	0.186%
51	12.780	1815	1818	1822	rVB2	208691	209470	3.25%	0.288%
52	12.868	1826	1833	1836	rBV	5296709	6444640	100.00%	8.853%
53	12.904	1836	1839	1844	rVB2	208434	260165	4.04%	0.357%
54	12.992	1848	1854	1857	rBV2	1190917	1455590	22.59%	2.000%
55	13.016	1857	1858	1862	rVB	381476	209184	3.25%	0.287%
56	13.074	1863	1868	1871	rBV3	315616	503201	7.81%	0.691%
57	13.104	1871	1873	1876	rVB	181243	132716	2.06%	0.182%
58	13.163	1879	1883	1884	rBV3	232347	251489	3.90%	0.345%
59	13.186	1884	1887	1890	rVB	976609	866770	13.45%	1.191%
60	13.216	1890	1892	1895	rBV4	112047	138808	2.15%	0.191%
61	13.251	1895	1898	1901	rBV	783765	646068	10.02%	0.888%
62	13.292	1901	1905	1907	rBV2	455976	494460	7.67%	0.679%
63	13.316	1907	1909	1912	rVB	185640	162867	2.53%	0.224%
64	13.345	1912	1914	1917	rBV3	97893	89811	1.39%	0.123%
65	13.380	1917	1920	1923	rBV	320311	308156	4.78%	0.423%
66	13.410	1923	1925	1929	rBV	347188	322903	5.01%	0.444%
67	13.568	1948	1952	1953	rBV3	121512	167427	2.60%	0.230%
68	13.663	1966	1968	1970	rVV3	110180	112967	1.75%	0.155%
69	13.692	1970	1973	1978	rVB2	228708	306343	4.75%	0.421%
70	13.804	1988	1992	1995	rBV3	504267	672520	10.44%	0.924%
71	13.833	1995	1997	1999	rVV	594729	502330	7.79%	0.690%

LSC Area Percent Report

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Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.857	1999	2001	2005	rVV2	599949	801598	12.44%	1.101%
73	13.898	2005	2008	2013	rVB2	405811	455019	7.06%	0.625%
74	13.968	2018	2020	2024	rVB	132395	155084	2.41%	0.213%
75	14.051	2027	2034	2038	rVV2	3656273	5465880	84.81%	7.509%
76	14.086	2038	2040	2045	rVV	2935148	2868988	44.52%	3.941%
77	14.145	2048	2050	2051	rVV2	117546	103258	1.60%	0.142%
78	14.163	2051	2053	2057	rVV	888680	799137	12.40%	1.098%
79	14.198	2057	2059	2060	rVV	172609	157123	2.44%	0.216%
80	14.239	2064	2066	2069	rVV2	264507	275250	4.27%	0.378%
81	14.280	2069	2073	2076	rVV2	364054	491247	7.62%	0.675%
82	14.310	2076	2078	2081	rVB2	157390	139800	2.17%	0.192%
83	14.380	2087	2090	2092	rBV2	151004	172565	2.68%	0.237%
84	14.404	2092	2094	2096	rVV2	189206	187796	2.91%	0.258%
85	14.439	2096	2100	2103	rVV	569041	723013	11.22%	0.993%
86	14.474	2103	2106	2110	rVV2	383156	526932	8.18%	0.724%
87	14.521	2112	2114	2115	rVV2	297608	274643	4.26%	0.377%
88	14.568	2119	2122	2123	rVV2	371057	380439	5.90%	0.523%
89	14.586	2123	2125	2129	rVV	480101	468138	7.26%	0.643%
90	14.633	2129	2133	2139	rVB5	214069	391320	6.07%	0.538%
91	14.833	2164	2167	2169	rVB	202964	184518	2.86%	0.253%
92	15.115	2209	2215	2217	rBV	2402362	3871659	60.08%	5.319%
93	15.174	2222	2225	2229	rVV3	228882	349575	5.42%	0.480%
94	15.215	2229	2232	2235	rVB	557675	560204	8.69%	0.770%
95	15.421	2262	2267	2272	rVB	1411289	2077864	32.24%	2.854%
96	15.486	2273	2278	2283	rVV	2304665	3042876	47.22%	4.180%
97	15.545	2283	2288	2290	rVV	839589	1297256	20.13%	1.782%
98	15.574	2290	2293	2299	rVB	814103	1157016	17.95%	1.589%
99	17.045	2536	2543	2550	rVB2	899707	1868891	29.00%	2.567%
100	17.498	2613	2620	2628	rVB	677989	1423914	22.09%	1.956%

Sum of corrected areas: 72795137

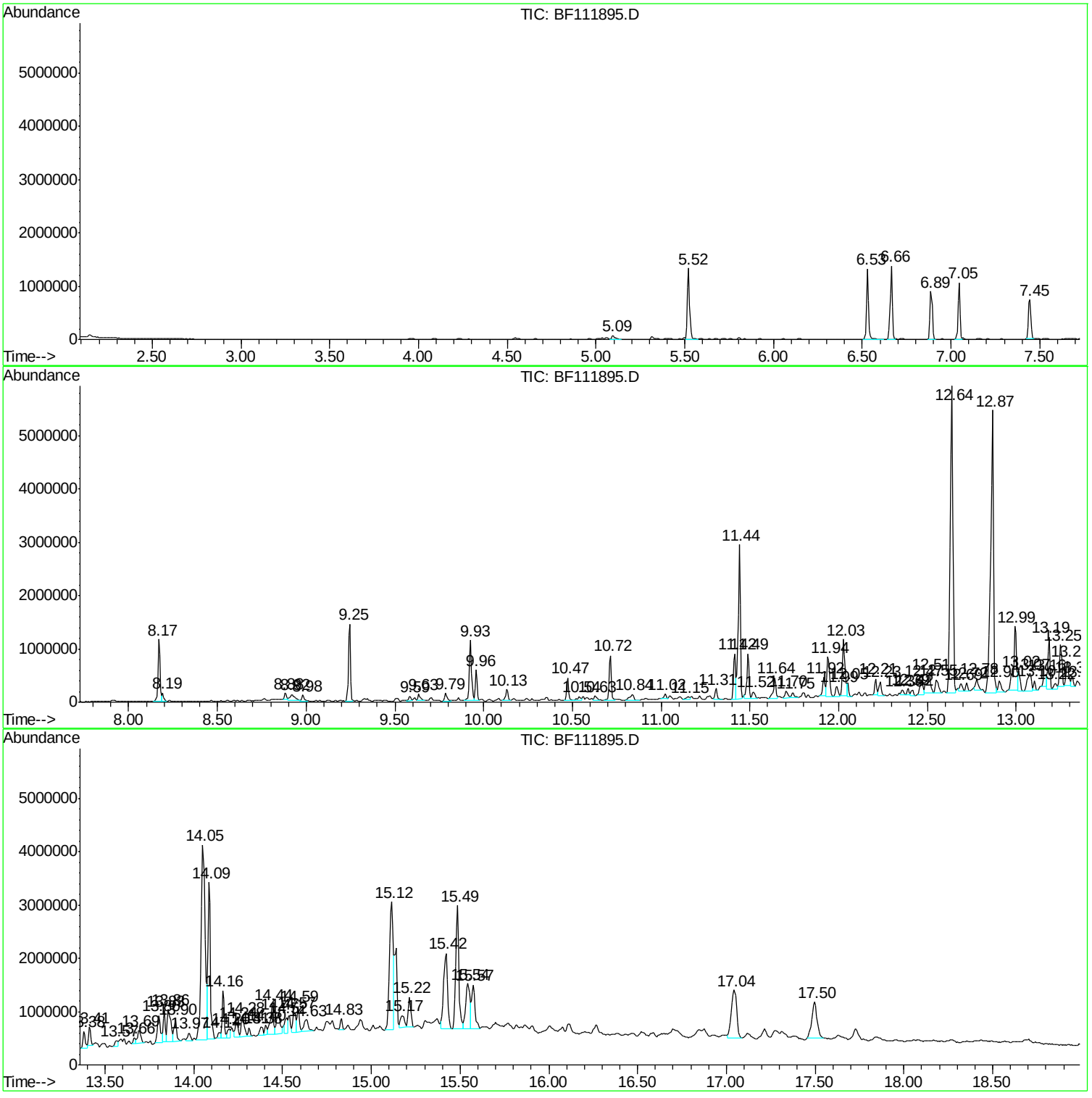
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

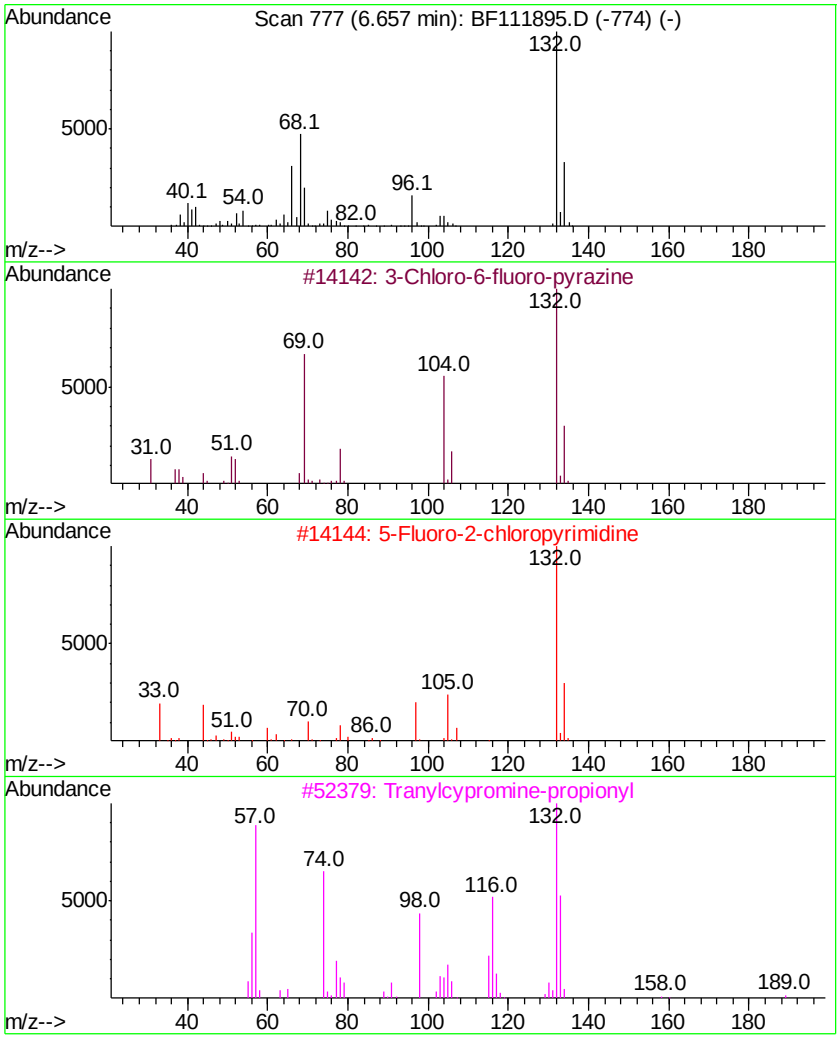
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

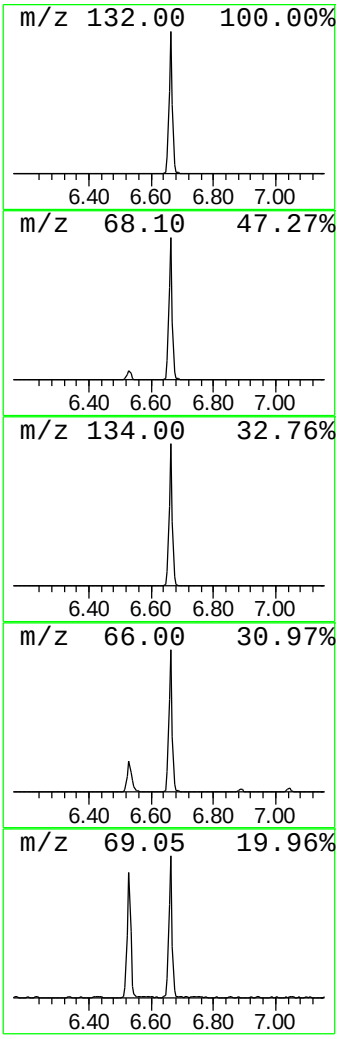
****

Peak Number 1 unknown6.66 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	30.00 ng	1098060	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	1,2,4-Trifluorobenzene	132	C6H3F3	000367-23-7	9
5	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

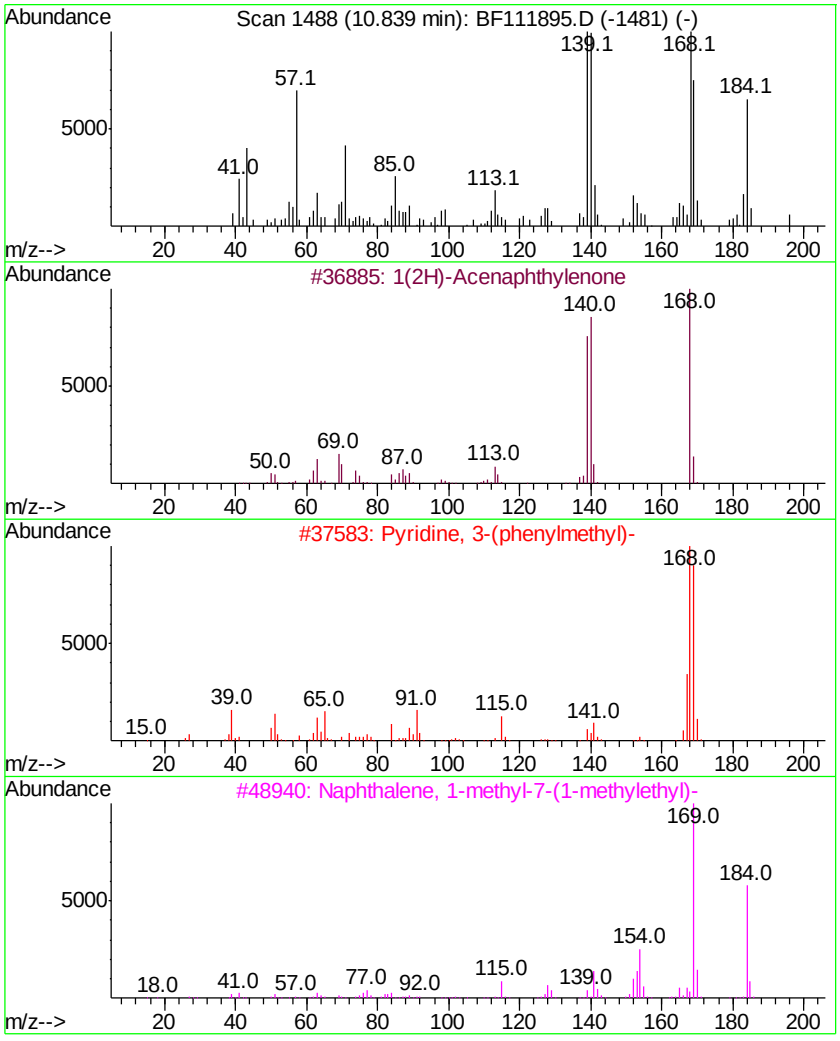
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

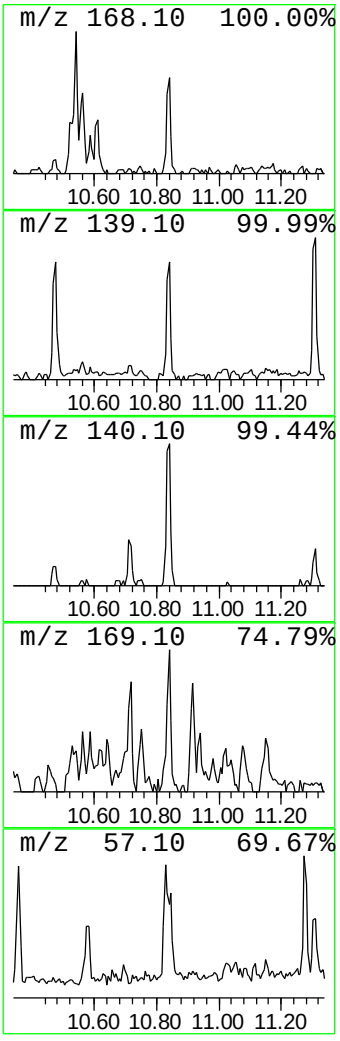
****

Peak Number 3 1(2H)-Acenaphthylenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.84	4.63 ng	182466	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	87
2	Pyridine, 3-(phenylmethyl)-	169	C12H11N	000620-95-1	38
3	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	38
4	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	35
5	Benzenaldehyde, 2-fluoro-5-hydroxy-	140	C7H5FO2	103438-84-2	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
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Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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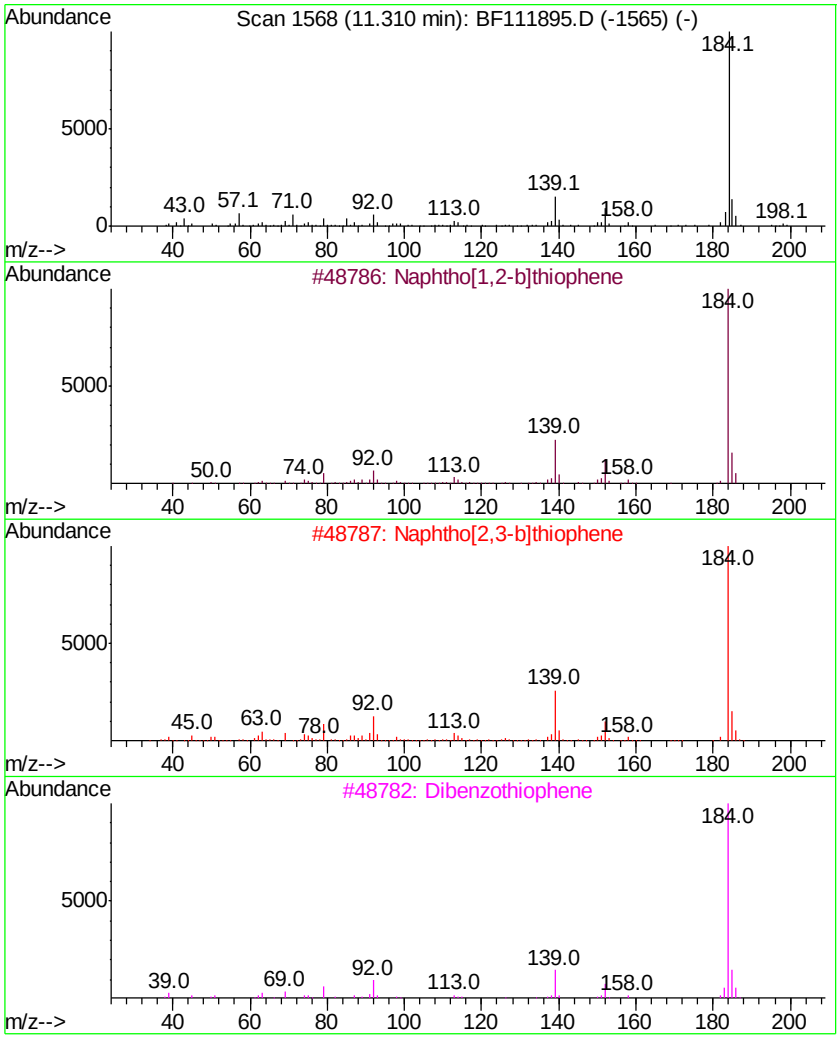
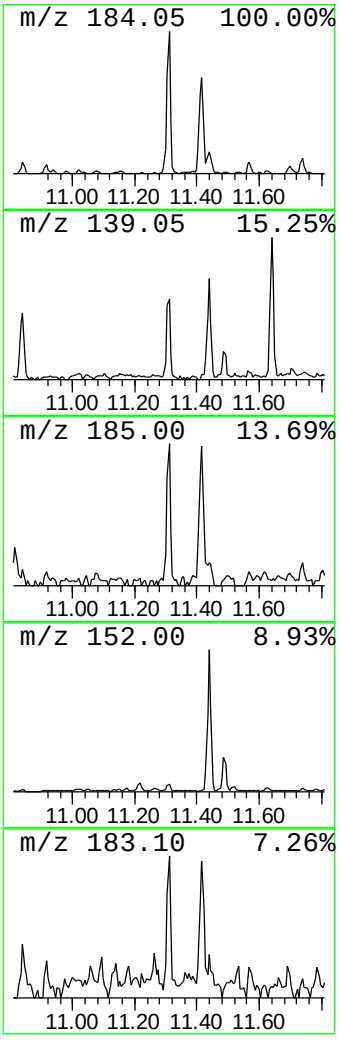
Peak Number 4 Naphtho[1,2-b]thiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.31	4.88 ng	192115	Phenanthrene-d10	11.42

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
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Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

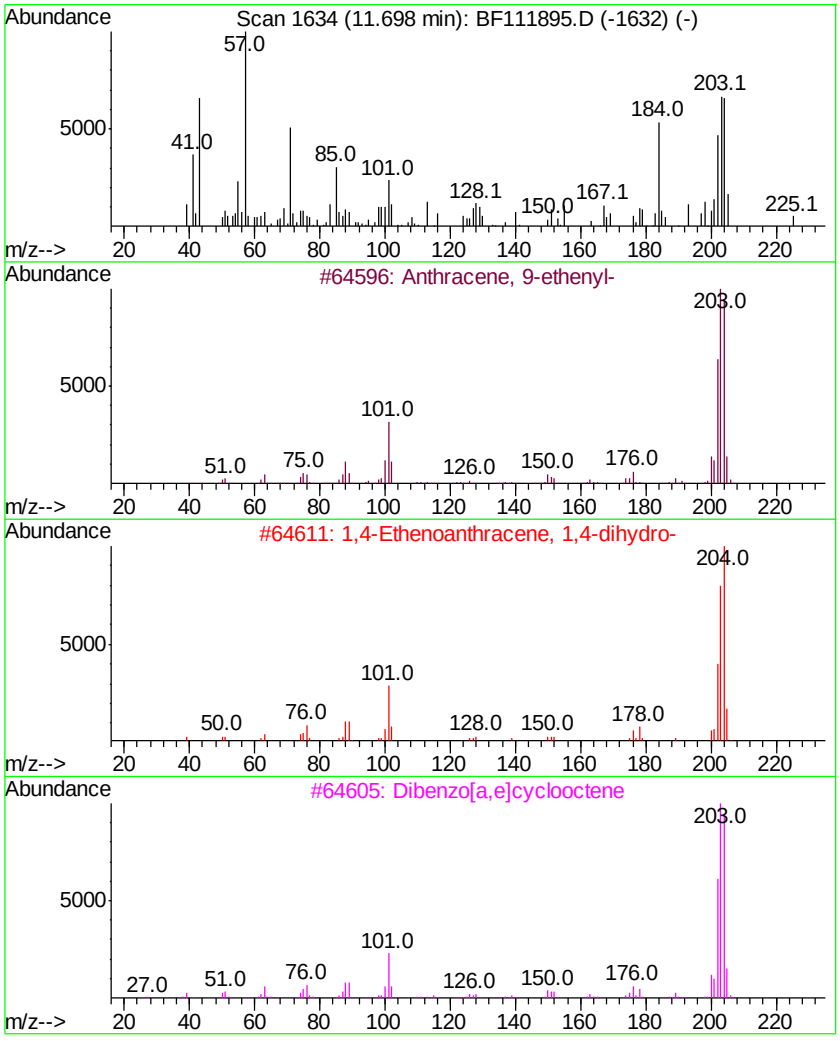
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

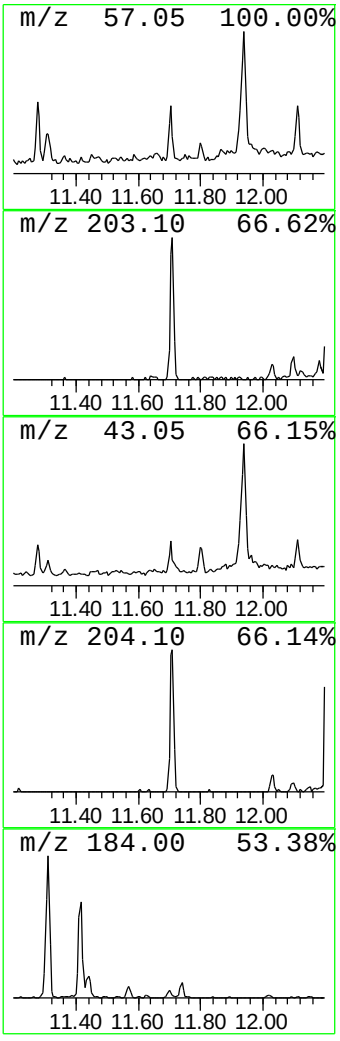
****

Peak Number 5 Anthracene, 9-ethenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	3.65 ng	143637	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	91
2	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	86
3	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	83
4	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	83
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

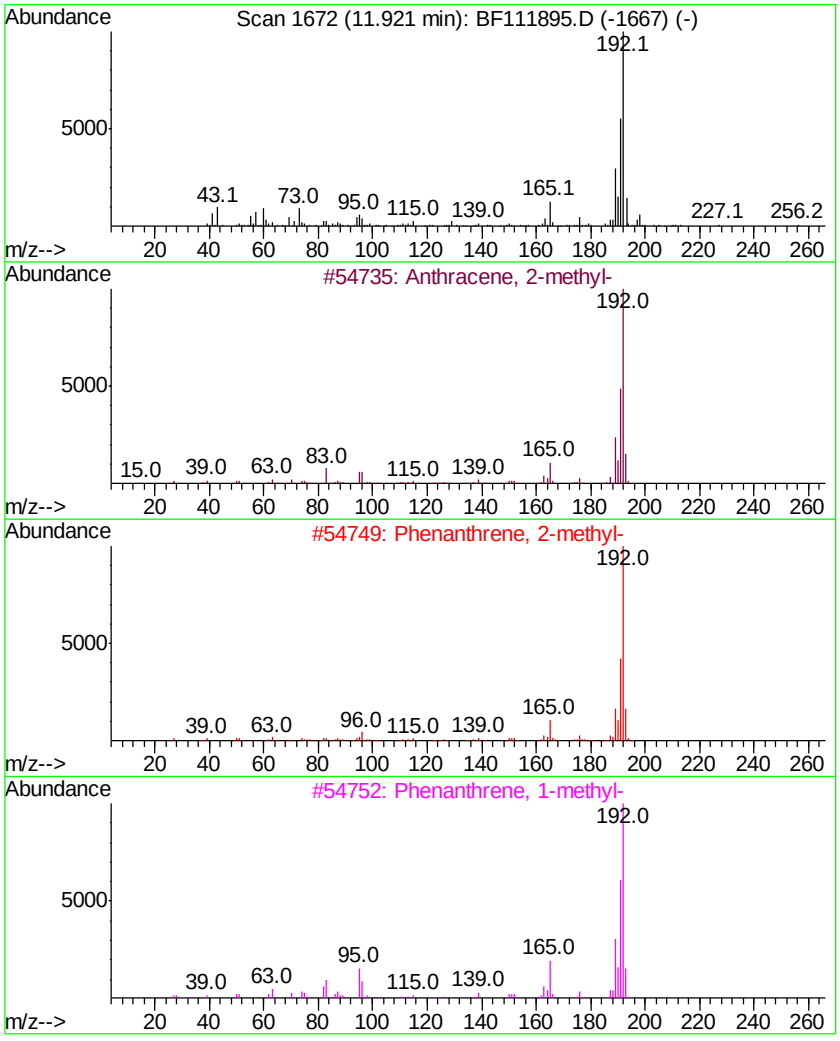
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

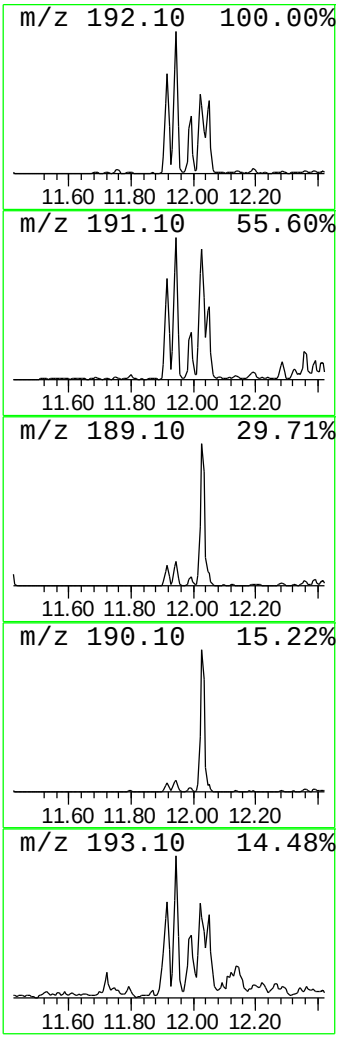
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	9.31 ng	366746	Phenanthrene-d10	11.42

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	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	91





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Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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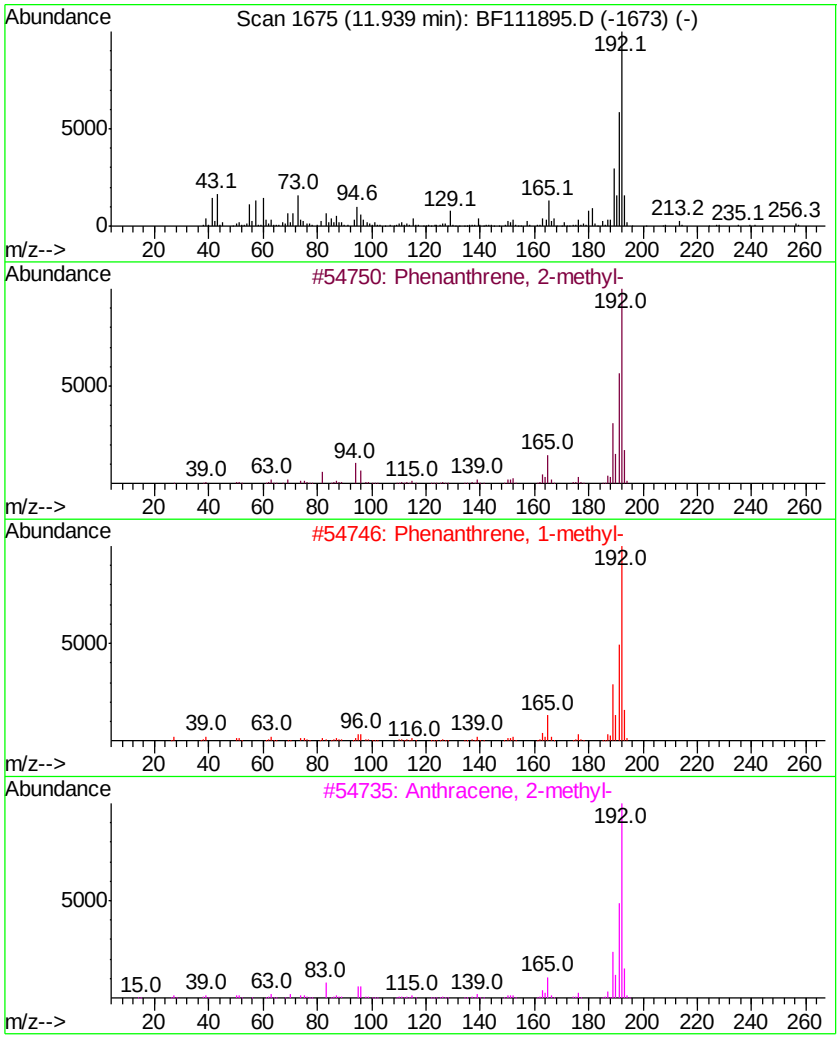
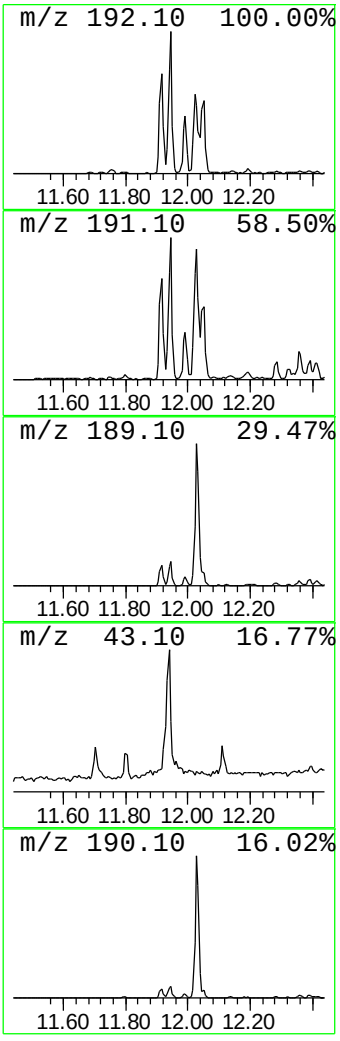
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	18.10 ng	712984	Phenanthrene-d10	11.42

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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ALS Vial : 19 Sample Multiplier: 1

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ClientSampleId : OK-03-010419

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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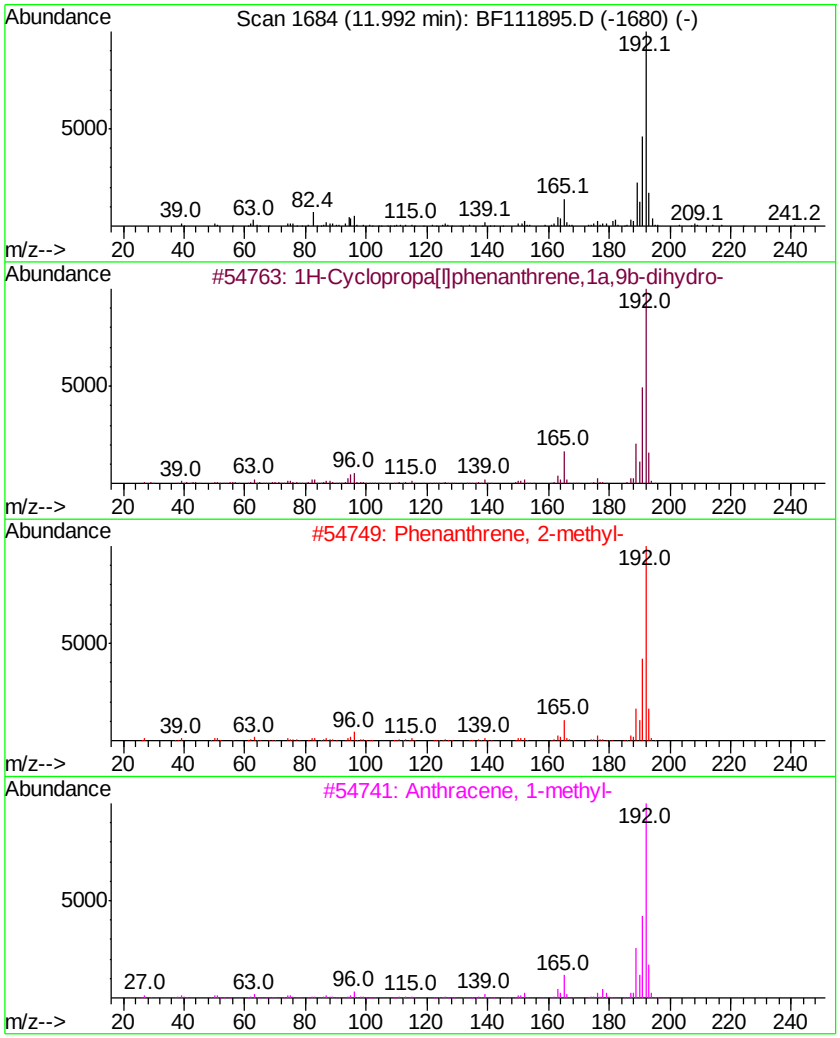
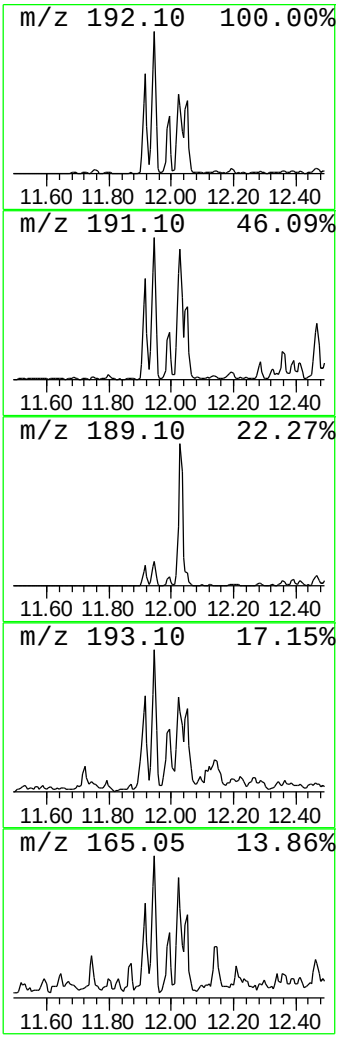
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	4.60 ng	181194	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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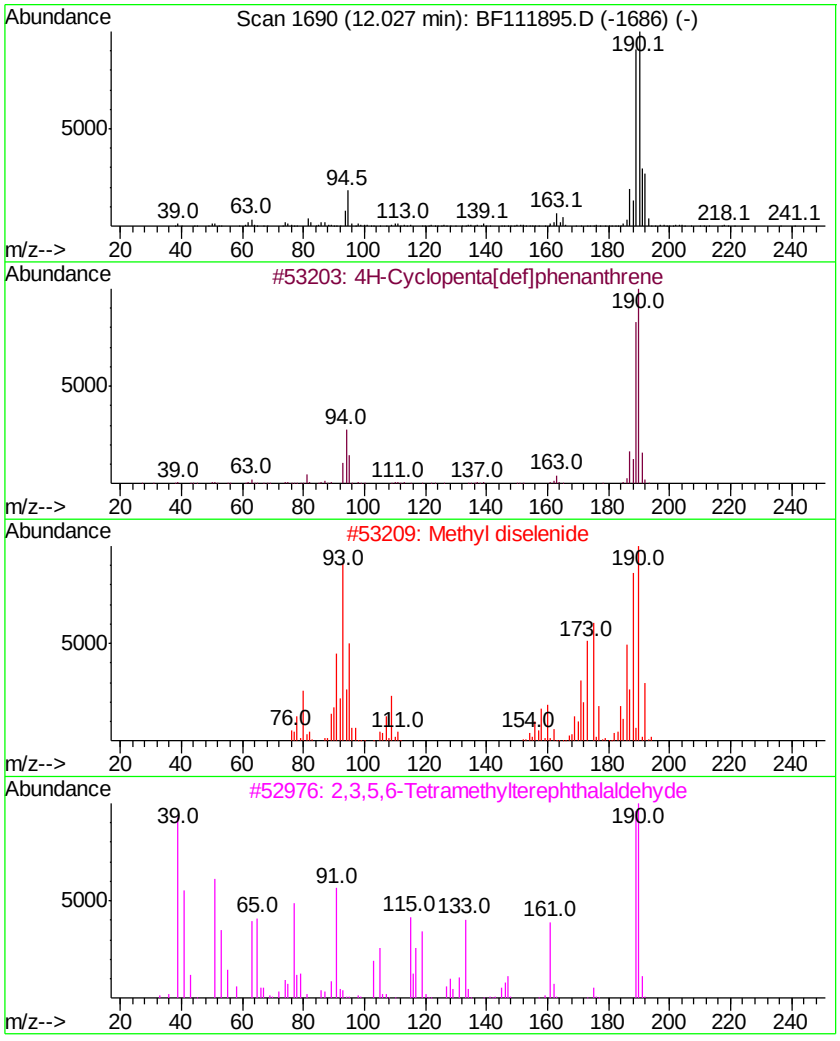
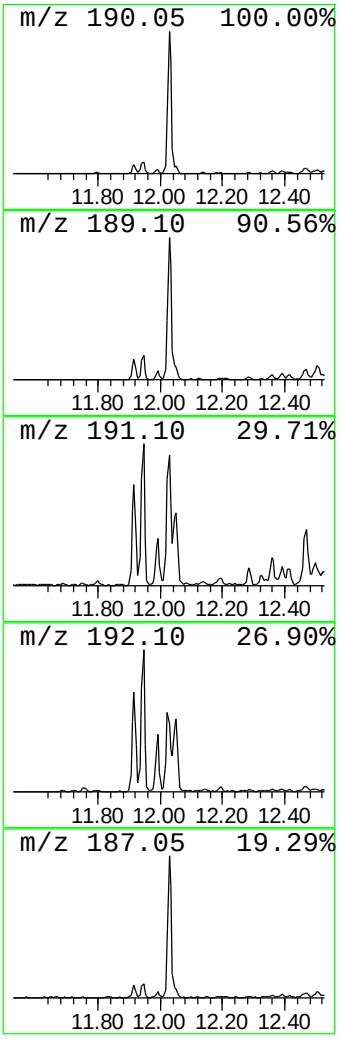
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	26.89 ng	1059270	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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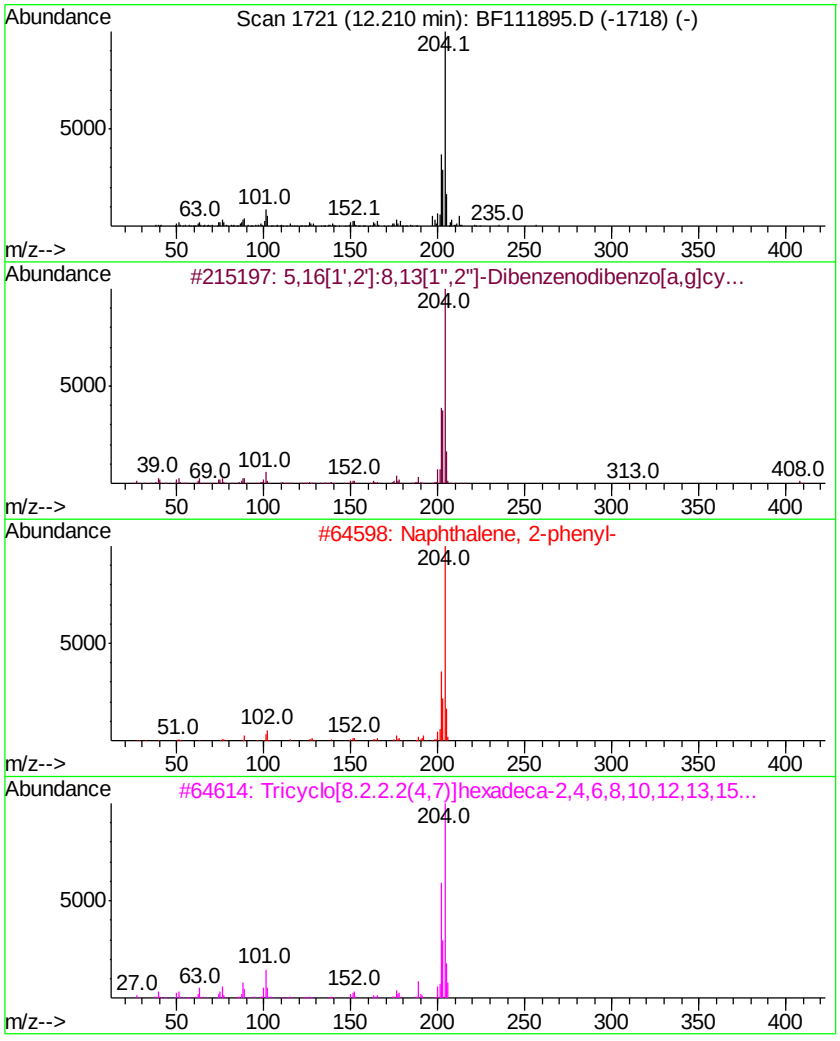
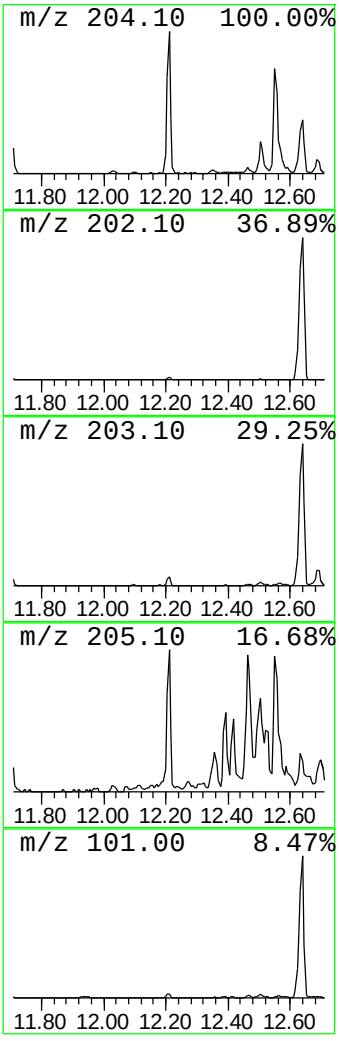
Peak Number 11 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	6.56 ng	258215	Phenanthrene-d10	11.42

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	76
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
4	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	58
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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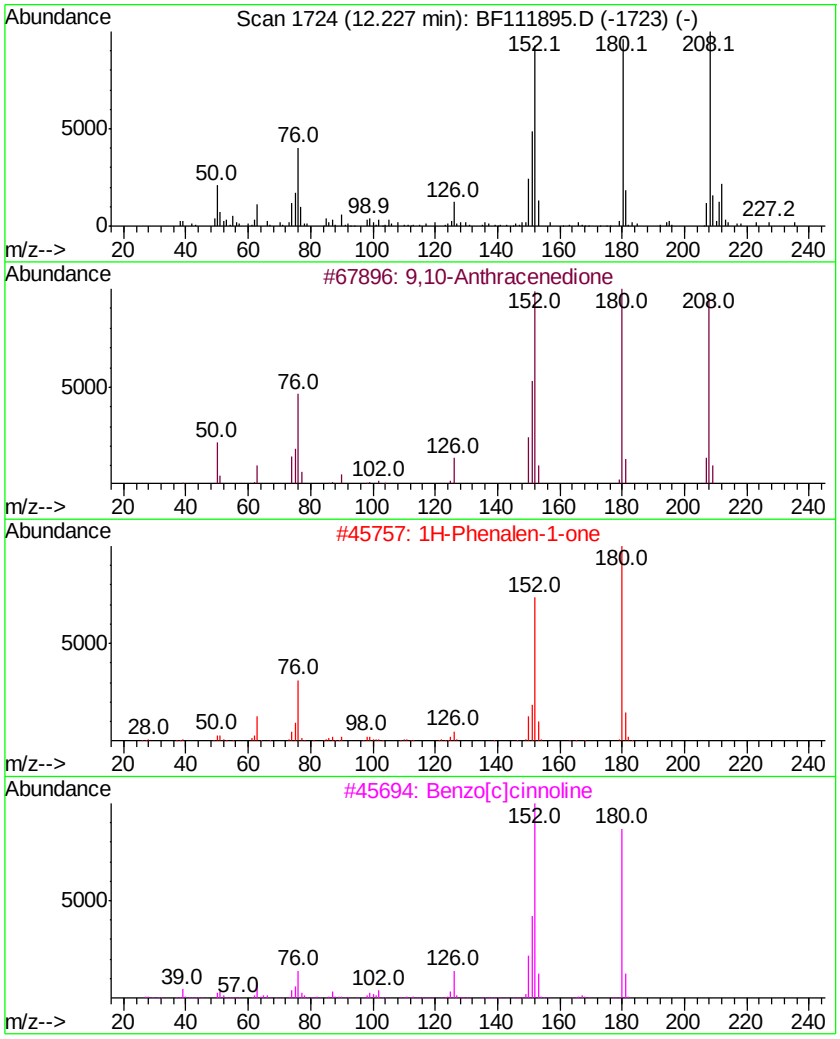
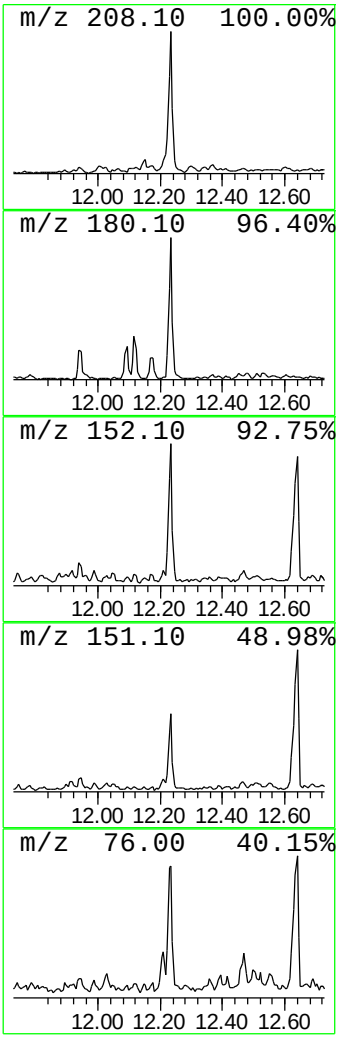
Peak Number 12 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	5.42 ng	213496	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	49
5	1,3-Benzenedicarboxaldehyde, 2,4...	180	C9H8O4	010209-57-1	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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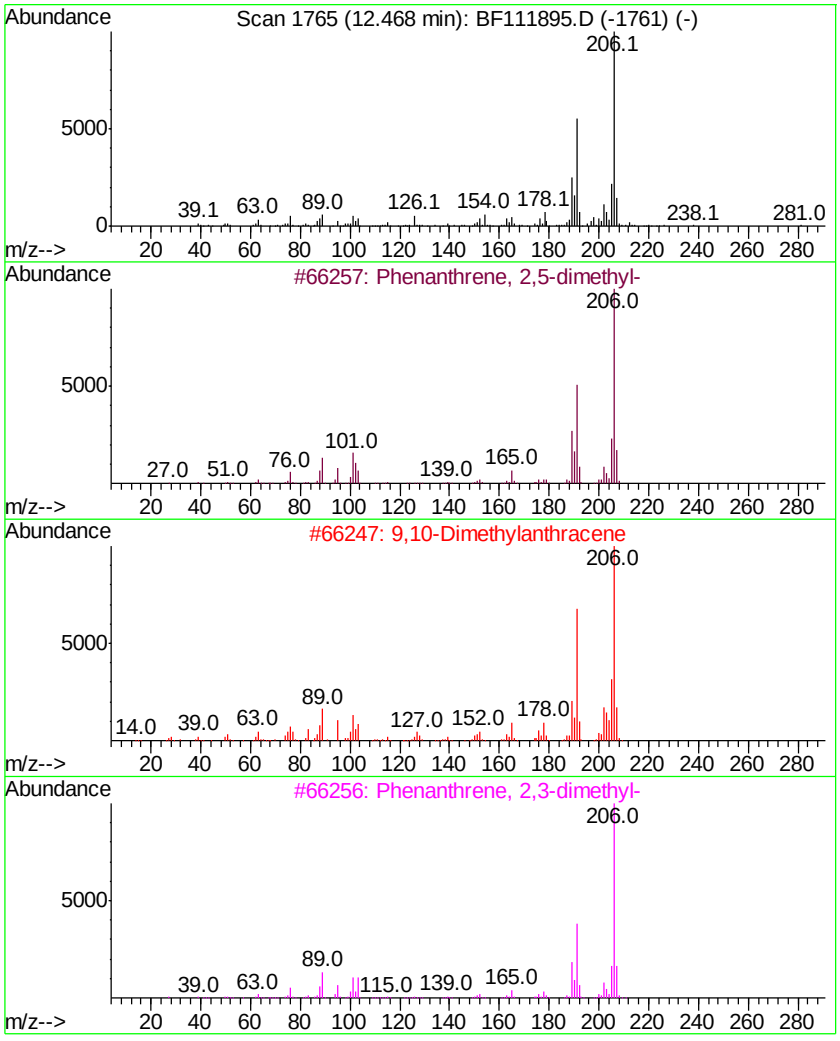
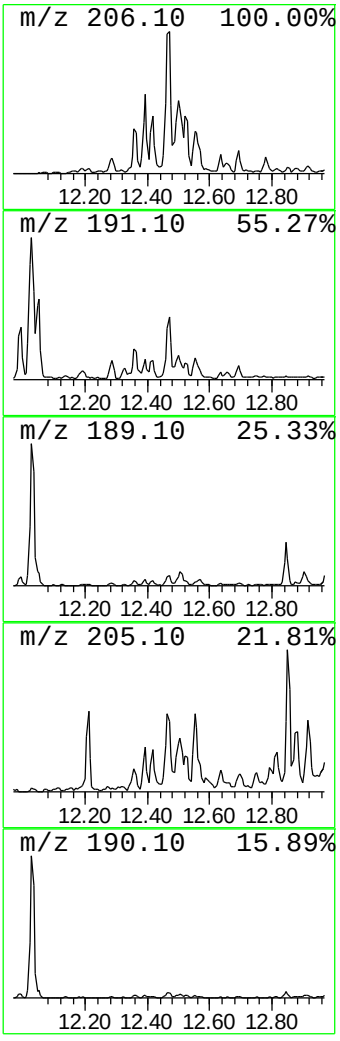
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	7.75 ng	305286	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	81
5	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	76





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Sample : K1010-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : OK-03-010419

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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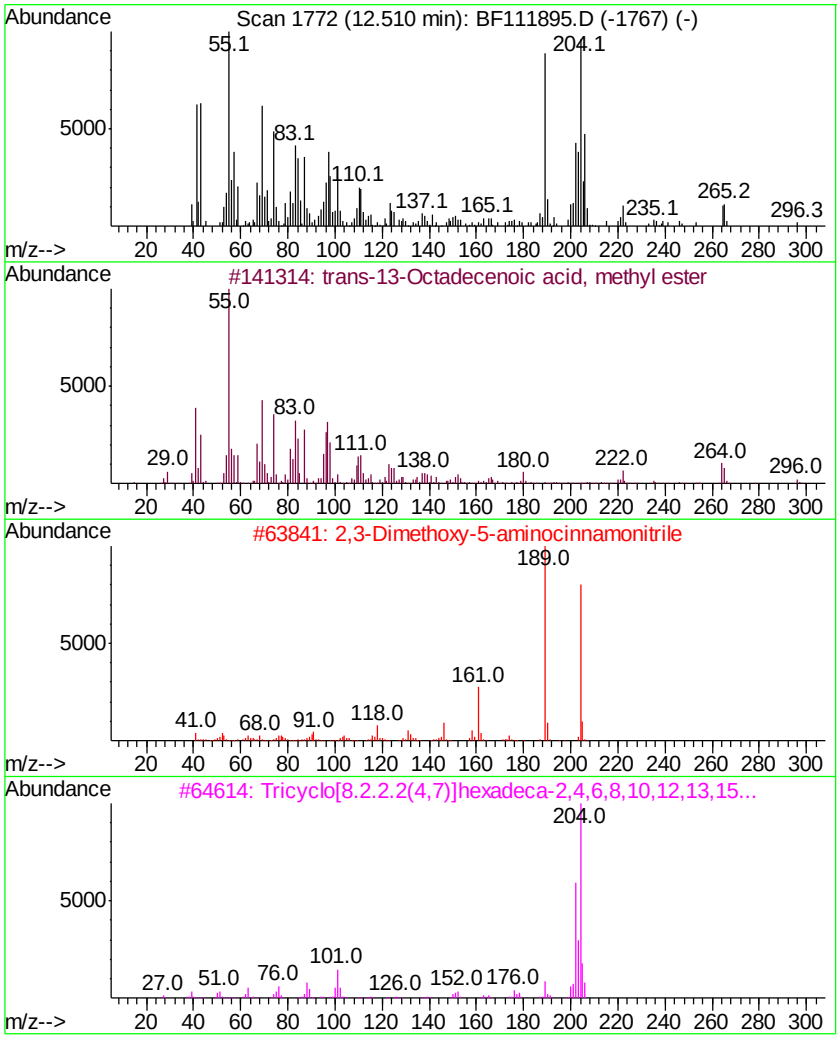
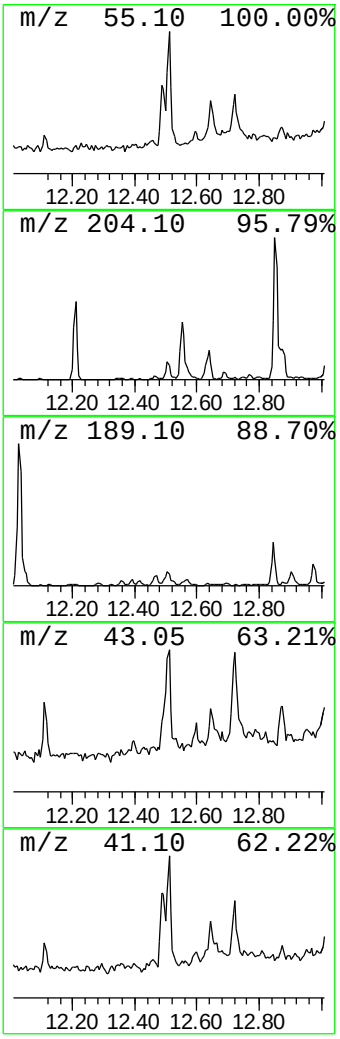
Peak Number 14 unknown12.51 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	14.25 ng	561185	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-13-Octadecenoic acid, meth...	296	C19H36O2	1000333-61-3	40
2	2,3-Dimethoxy-5-aminocinnamonitrile	204	C11H12N2O2	1000214-46-5	38
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	38
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
5	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35





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

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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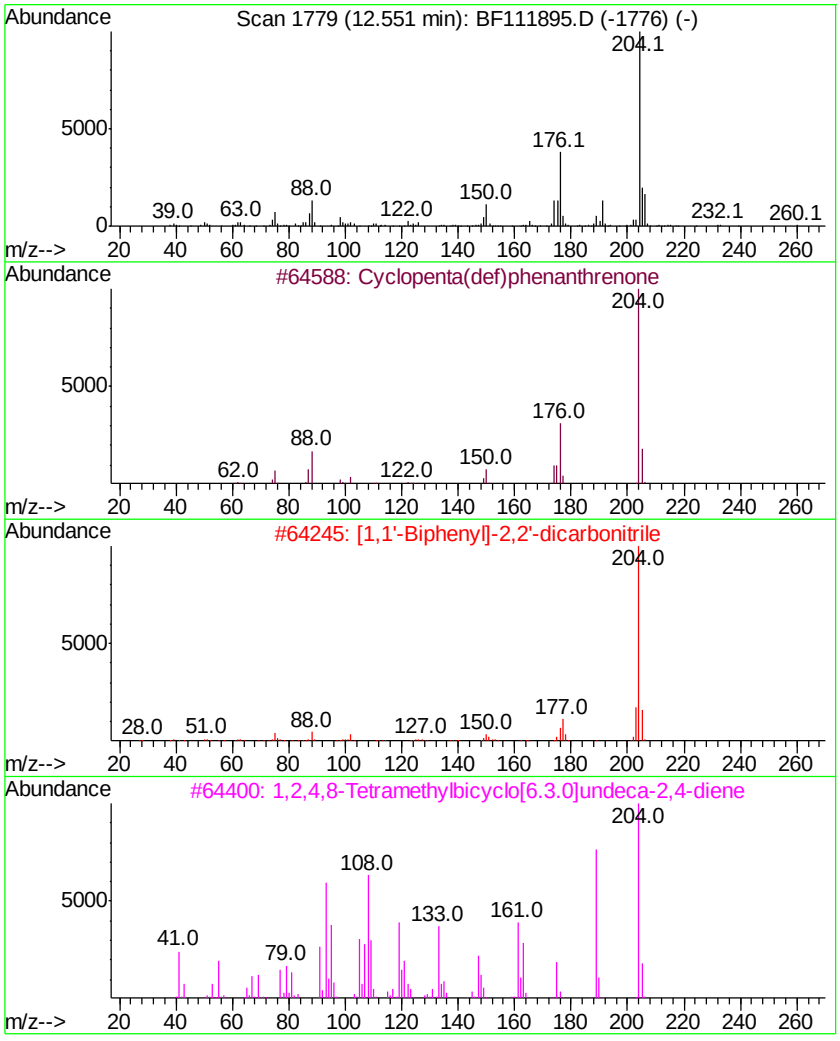
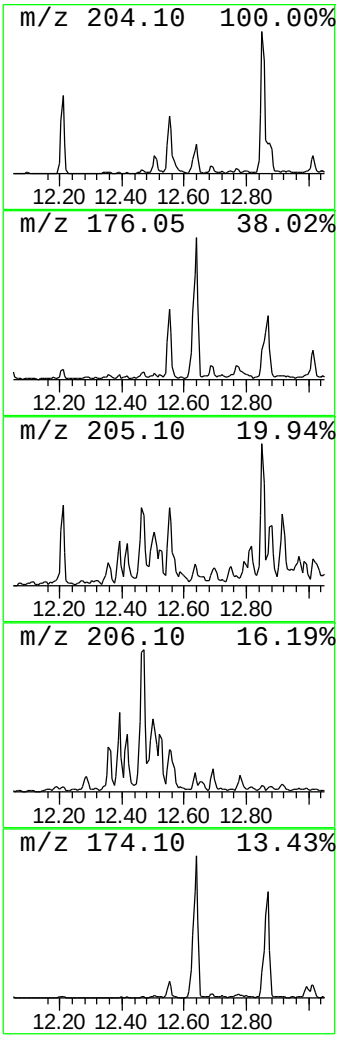
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	6.74 ng	265566	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	53
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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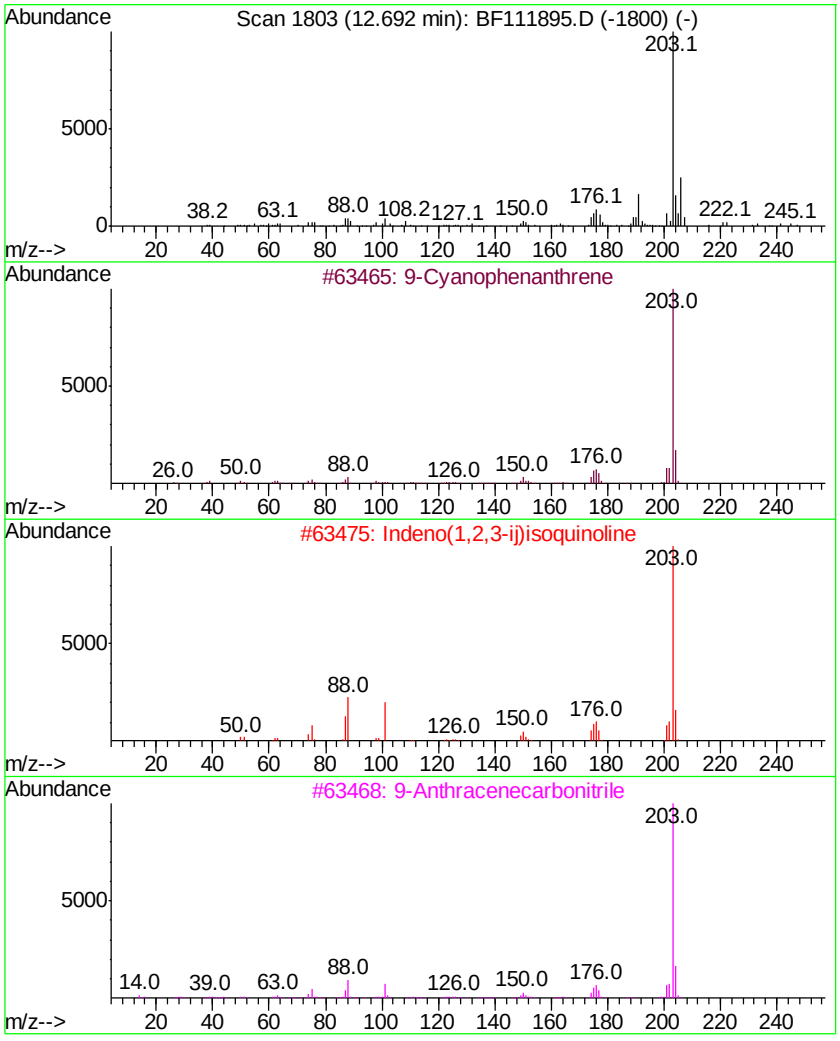
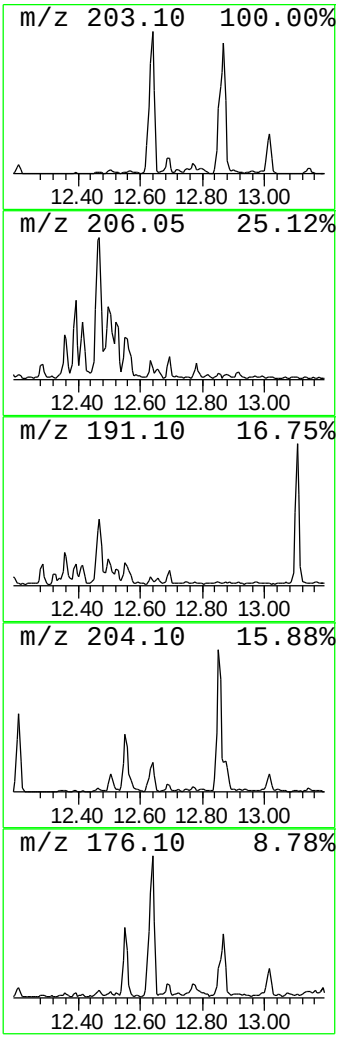
Peak Number 16 9-Cyanophenanthrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	3.09 ng	121782	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Cyanophenanthrene	203	C15H9N	002510-55-6	83
2	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	64
3	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	64
4	Acenaphtho(1,2-b)pyridine	203	C15H9N	000206-49-5	64
5	4-Azapyrene	203	C15H9N	000194-03-6	58





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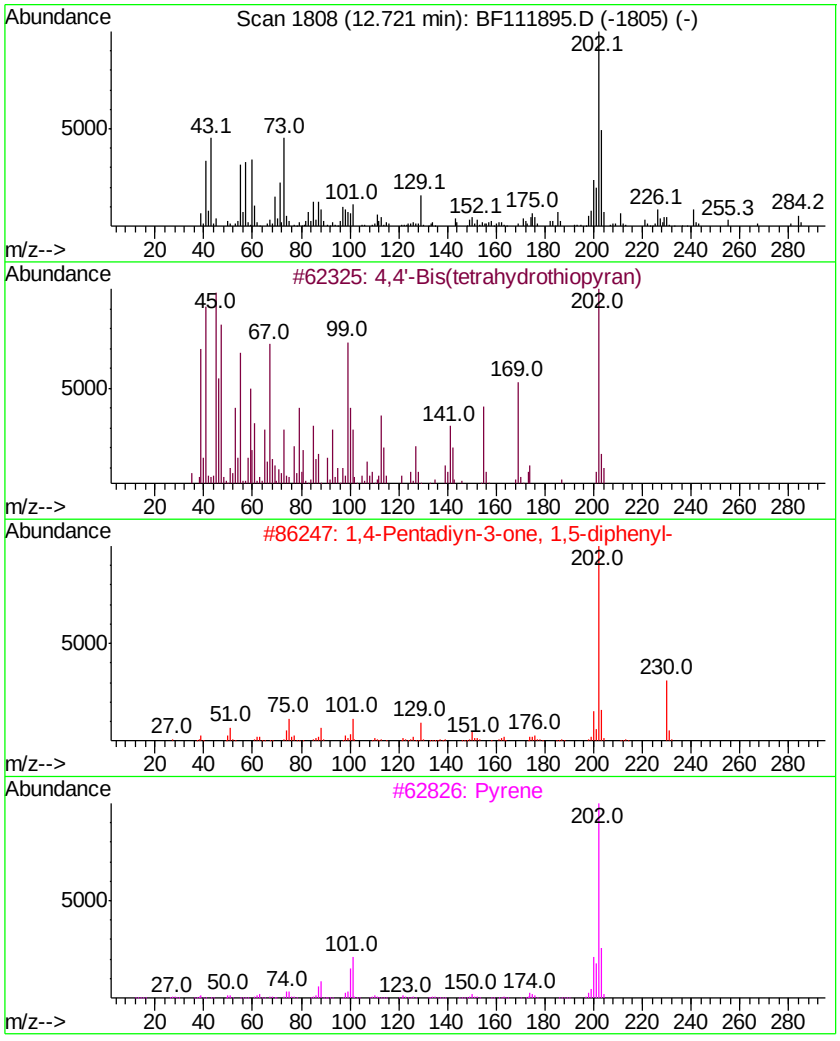
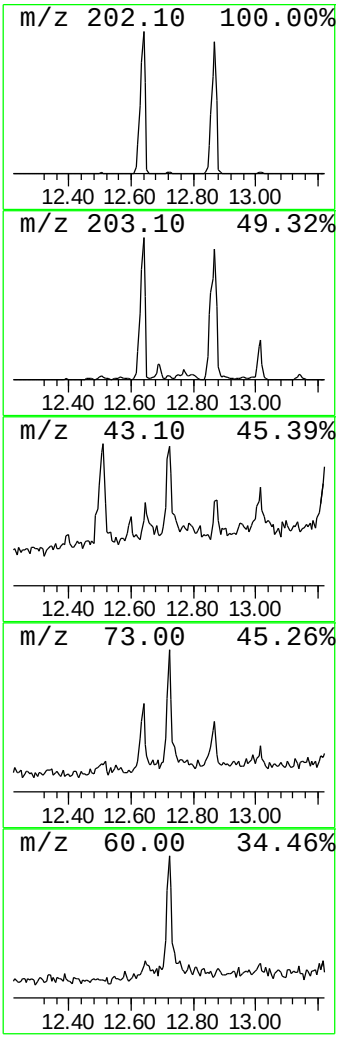
Peak Number 17 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.72	3.45 ng	135745	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	74
2	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	49
3	Pyrene	202	C16H10	000129-00-0	46
4	Fluoranthene	202	C16H10	000206-44-0	43
5	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	43





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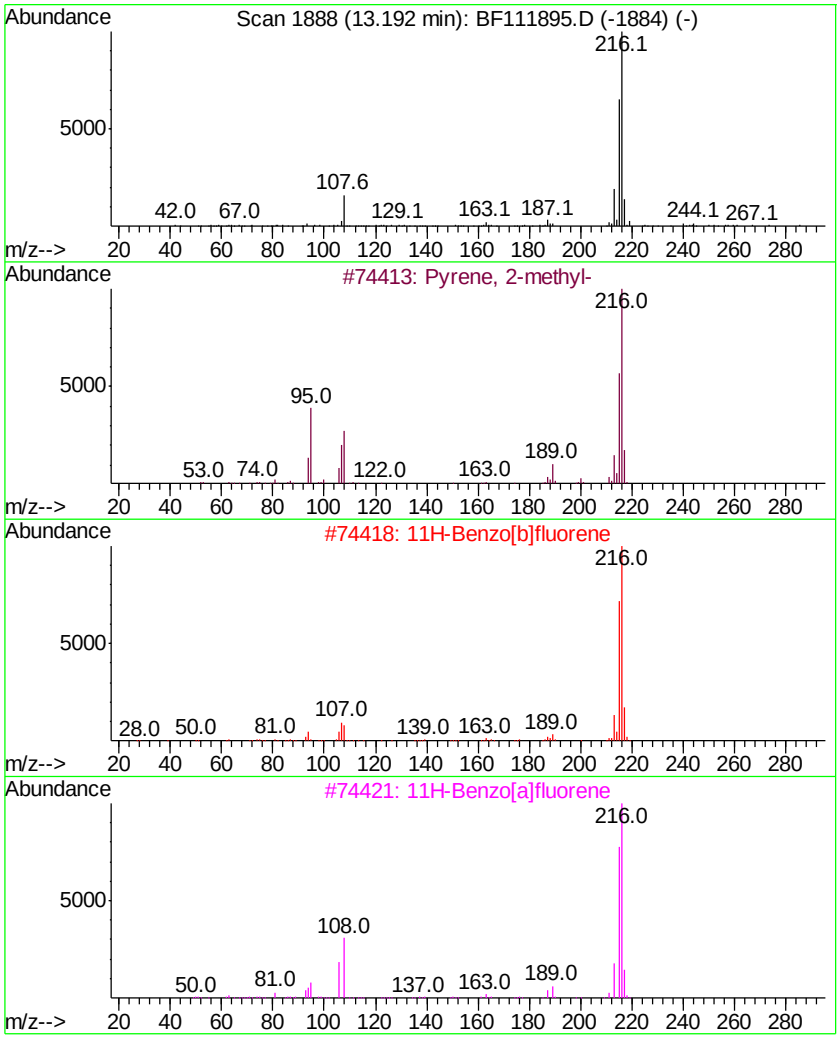
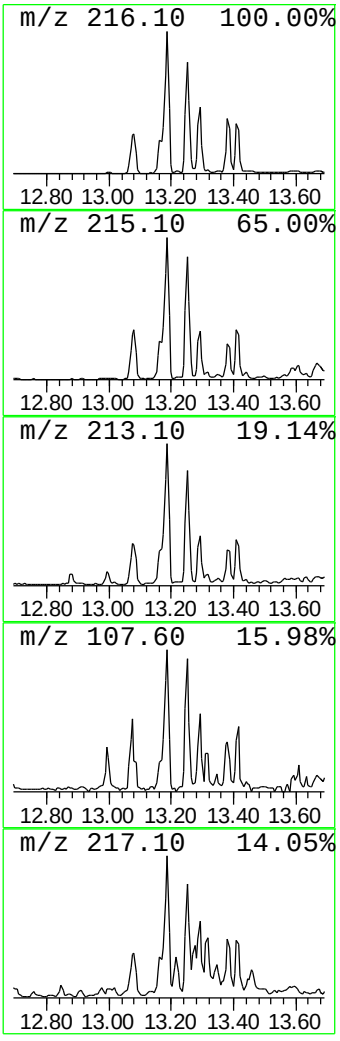
Peak Number 18 Pyrene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	3.17 ng	866770	Chrysene-d12	14.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

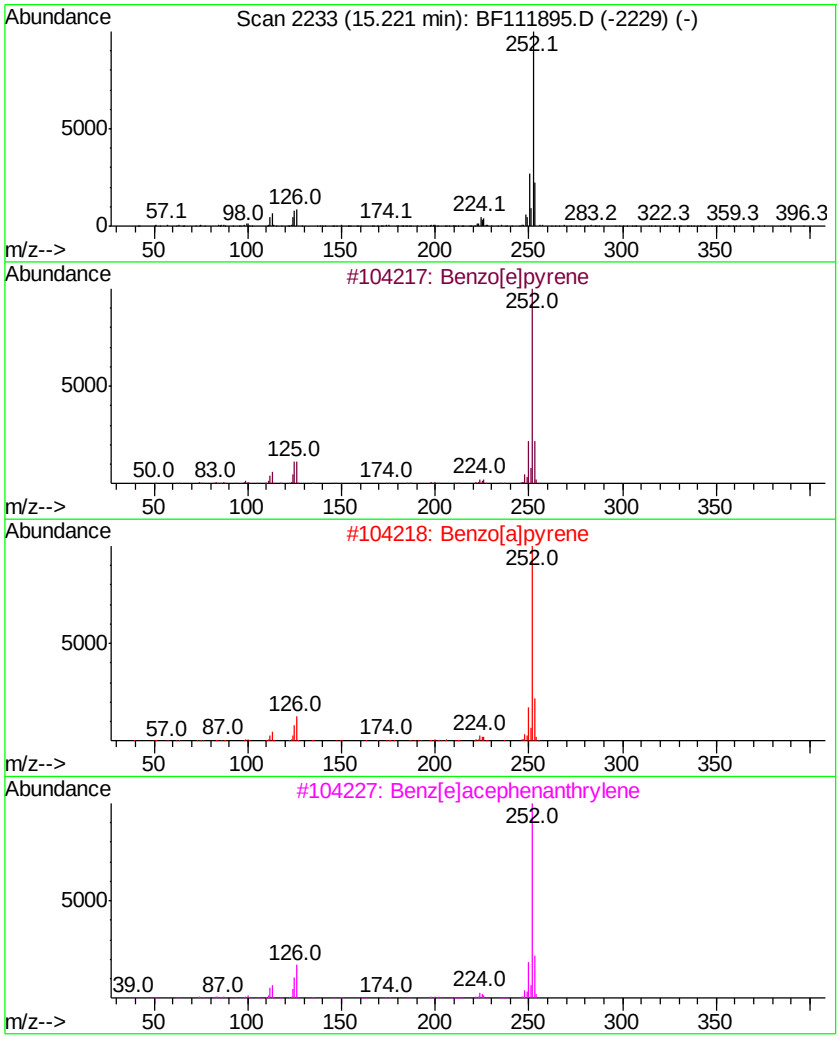
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

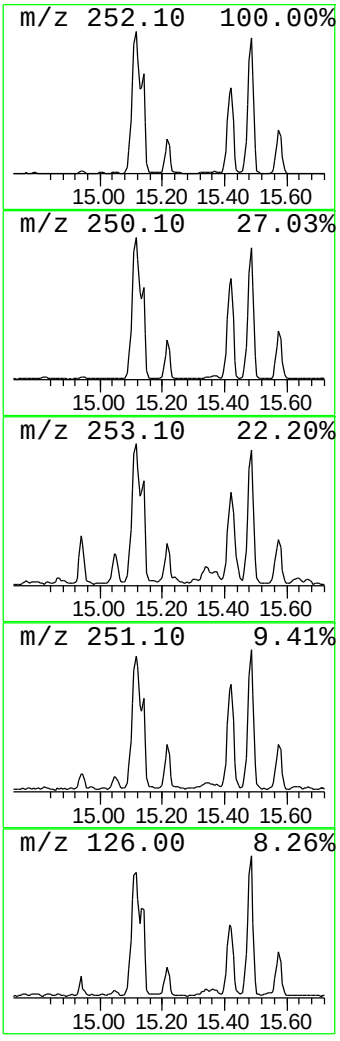
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.22	8.64 ng	560204	Perylene-d12	15.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	90
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF010719\
Data File : BF111895.D
Acq On : 7 Jan 2019 23:47
Operator : JU/SJ
Sample : K1010-01 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-010419

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF010719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.66	6.66	30.0	ng	1098060	1	6.89	731964	20.0
1(2H)-Acenaphthyl...	10.84	4.6	ng	182466	4	11.42	787713	20.0
Naphtho[1,2-b]thi...	11.31	4.9	ng	192115	4	11.42	787713	20.0
Anthracene, 9-eth...	11.70	3.6	ng	143637	4	11.42	787713	20.0
Anthracene, 2-met...	11.92	9.3	ng	366746	4	11.42	787713	20.0
Phenanthrene, 2-m...	11.94	18.1	ng	712984	4	11.42	787713	20.0
1H-Cyclopropa[l]p...	11.99	4.6	ng	181194	4	11.42	787713	20.0
4H-Cyclopenta[def...	12.03	26.9	ng	1059270	4	11.42	787713	20.0
5,16[1',2']:8,13[...	12.21	6.6	ng	258215	4	11.42	787713	20.0
9,10-Anthracenedione	12.23	5.4	ng	213496	4	11.42	787713	20.0
Phenanthrene, 2,5...	12.47	7.8	ng	305286	4	11.42	787713	20.0
unknown12.51	12.51	14.3	ng	561185	4	11.42	787713	20.0
Cyclopenta(def)ph...	12.55	6.7	ng	265566	4	11.42	787713	20.0
9-Cyanophenanthrene	12.69	3.1	ng	121782	4	11.42	787713	20.0
4,4'-Bis(tetrahyd...	12.72	3.5	ng	135745	4	11.42	787713	20.0
Pyrene, 2-methyl-	13.19	3.2	ng	866770	5	14.06	5465880	20.0
Benzo[e]pyrene	15.22	8.6	ng	560204	6	15.54	1297260	20.0