LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

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-BF040319.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	5.287	540	544	569	rBV	1533609	2181530	37.11%	2.703%
2	6.328	717	721	737	rBV	1931287	2334847	39.72%	2.893%
3	6.445	737	741	750	rVB	2412312	2299825	39.13%	2.849%
4	6.669	776	779	793	rVB	756976	666947	11.35%	0.826%
5	6.828	802	806	822	rBV	1765512	1812861	30.84%	2.246%
6	7.240	872	876	908	rBV	1285806	1500289	25.52%	1.859%
7	7.951	994	997	1000	rBV	873418	834334	14.19%	1.034%
8	7.975	1000	1001	1016	rVB	270964	268444	4.57%	0.333%
9	8.669	1116	1119	1126	rVB	127929	121599	2.07%	0.151%
10	8.763	1131	1135	1144	rVB	117685	122960	2.09%	0.152%
11	9.028	1176	1180	1190	rBV	3082707	2691927	45.80%	3.335%
12	9.298	1221	1226	1230	rBV	82604	125729	2.14%	0.156%
13	9.363	1234	1237	1240	rVV	149057	157265	2.68%	0.195%
14	9.392	1240	1242	1245	rVV	104544	97415	1.66%	0.121%
15	9.428	1245	1248	1255	rVV	264259	285526	4.86%	0.354%
16	9.481	1255	1257	1265	rVB	76835	102482	1.74%	0.127%
17	9.563	1268	1271	1277	rBV	258339	237557	4.04%	0.294%
18	9.704	1288	1295	1298	rBV	1003785	1015654	17.28%	1.258%
19	9.733	1298	1300	1305	rVV	466126	406418	6.91%	0.504%
20	9.910	1326	1330	1334	rBV	373471	345736	5.88%	0.428%
21	9.945	1334	1336	1341	rVB	85361	85348	1.45%	0.106%
22	10.022	1345	1349	1352	rBV	83516	85655	1.46%	0.106%
23	10.251	1384	1388	1394	rVB	702194	668586	11.37%	0.828%
24	10.316	1394	1399	1400	rBV	85208	101984	1.74%	0.126%
25	10.410	1412	1415	1418	rVB	189203	171195	2.91%	0.212%
26	10.492	1423	1429	1435	rBV	1675087	1876778	31.93%	2.325%
27	10.616	1445	1450	1456	rVB5	67467	143095	2.43%	0.177%
28	10.798	1473	1481	1484	rBV2	185836	245535	4.18%	0.304%
29	10.928	1498	1503	1505	rBV2	114698	150230	2.56%	0.186%
30	10.998	1512	1515	1519	rBV	368752	363963	6.19%	0.451%
31	11.039	1519	1522	1526	rVV2	114349	155075	2.64%	0.192%
32	11.080	1526	1529	1536	rVB	374794	366662	6.24%	0.454%
33	11.186	1543	1547	1549	rBV	1032212	1096659	18.66%	1.359%
34	11.216	1549	1552	1555	rVV	4488704	4338587	73.81%	5.375%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.263	1555	1560	1564	rVV	1526555	1447040	24.62%	1.793%
36	11.304	1564	1567	1572	rVB3	74422	129412	2.20%	0.160%
37	11.422	1583	1587	1594	rBV2	378293	553145	9.41%	0.685%
38	11.475	1594	1596	1599	rVV2	145745	123633	2.10%	0.153%
39	11.592	1612	1616	1620	rVB3	90989	134334	2.29%	0.166%
40	11.686	1629	1632	1634	rBV	753073	613053	10.43%	0.760%
41	11.716	1634	1637	1642	rVV	962104	927176	15.77%	1.149%
42	11.763	1642	1645	1648	rVB	334403	267587	4.55%	0.332%
43	11.798	1648	1651	1653	rBV	1250813	1157558	19.69%	1.434%
44	11.822	1653	1655	1660	rVB	494015	417321	7.10%	0.517%
45	11.980	1679	1682	1686	rBV	499517	398758	6.78%	0.494%
46	12.022	1686	1689	1692	rBV	423546	367195	6.25%	0.455%
47	12.127	1704	1707	1709	rBV	123565	97595	1.66%	0.121%
48	12.163	1710	1713	1715	rVV	148826	117068	1.99%	0.145%
49	12.186	1715	1717	1720	rVB	120873	102239	1.74%	0.127%
50	12.233	1722	1725	1728	rBV	315758	344630	5.86%	0.427%
51	12.274	1728	1732	1734	rVV2	235121	347954	5.92%	0.431%
52	12.333	1738	1742	1746	rVB2	464641	488928	8.32%	0.606%
53	12.410	1749	1755	1758	rBV	4975139	5740135	97.65%	7.112%
54	12.469	1762	1765	1767	rVB2	157814	145074	2.47%	0.180%
55	12.498	1767	1770	1775	rBV2	74273	104875	1.78%	0.130%
56	12.545	1775	1778	1782	rVB	334562	325817	5.54%	0.404%
57	12.633	1787	1793	1798	rBV2	4149802	5878012	100.00%	7.282%
58	12.674	1798	1800	1805	rVB2	263780	314877	5.36%	0.390%
59	12.769	1809	1816	1818	rBV2	2558398	2724814	46.36%	3.376%
60	12.792	1818	1820	1824	rVB	288753	303020	5.16%	0.375%
61	12.851	1824	1830	1833	rBV2	401134	655488	11.15%	0.812%
62	12.933	1840	1844	1845	rBV2	330199	346500	5.89%	0.429%
63	12.957	1845	1848	1851	rVB	767458	740755	12.60%	0.918%
64	13.021	1856	1859	1861	rVB	463075	335408	5.71%	0.416%
65	13.057	1861	1865	1869	rBV2	548952	649173	11.04%	0.804%
66	13.116	1872	1875	1878	rVB3	108955	104356	1.78%	0.129%
67	13.151	1878	1881	1884	rBV	328459	277545	4.72%	0.344%
68	13.180	1884	1886	1890	rBV	311144	302175	5.14%	0.374%
69	13.251	1895	1898	1900	rBV3	82303	88251	1.50%	0.109%
70	13.333	1909	1912	1914	rBV3	79870	113402	1.93%	0.140%
71	13.474	1933	1936	1939	rBV	602323	538705	9.16%	0.667%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.574	1949	1953	1955	rBV2	579630	664202	11.30%	0.823%
73	13.598	1955	1957	1959	rVB	427563	326083	5.55%	0.404%
74	13.627	1959	1962	1963	rBV	396141	352885	6.00%	0.437%
75	13.686	1968	1972	1976	rVB2	637557	725412	12.34%	0.899%
76	13.739	1979	1981	1985	rVB	115841	110024	1.87%	0.136%
77	13.821	1988	1995	1998	rBV2	2992775	4561781	77.61%	5.652%
78	13.857	1998	2001	2004	rVB	2540633	2309540	39.29%	2.861%
79	13.933	2011	2014	2017	rVB	517411	458317	7.80%	0.568%
80	13.980	2019	2022	2027	rVV3	373550	502700	8.55%	0.623%
81	14.021	2027	2029	2031	rVV	226340	233670	3.98%	0.289%
82	14.057	2033	2035	2038	rVB	299746	280779	4.78%	0.348%
83	14.174	2053	2055	2056	rBV	174865	141387	2.41%	0.175%
84	14.216	2056	2062	2065	rVV2	560599	704361	11.98%	0.873%
85	14.245	2065	2067	2069	rVV2	243611	179234	3.05%	0.222%
86	14.286	2072	2074	2076	rVB2	167571	126365	2.15%	0.157%
87	14.310	2076	2078	2080	rVB	145538	99162	1.69%	0.123%
88	14.339	2080	2083	2084	rBV	268781	255782	4.35%	0.317%
89	14.386	2089	2091	2092	rBV2	121462	95950	1.63%	0.119%
90	14.698	2140	2144	2147	rBV	391348	448931	7.64%	0.556%
91	14.851	2164	2170	2176	rBV	2186621	4383207	74.57%	5.430%
92	14.945	2182	2186	2190	rBV	481786	489833	8.33%	0.607%
93	15.127	2212	2217	2222	rBV	1185540	1398497	23.79%	1.733%
94	15.186	2222	2227	2232	rVV	1712328	2152031	36.61%	2.666%
95	15.239	2232	2236	2239	rVV	646369	777716	13.23%	0.964%
96	15.268	2239	2241	2247	rVB2	540744	673382	11.46%	0.834%
97	16.609	2462	2469	2475	rVB	736734	1419954	24.16%	1.759%
98	16.757	2490	2494	2499	rBV	200296	315490	5.37%	0.391%
99	16.815	2500	2504	2511	rVB2	134494	258178	4.39%	0.320%
100	17.027	2533	2540	2551	rVB	486706	1088825	18.52%	1.349%

Sum of corrected areas: 80715383

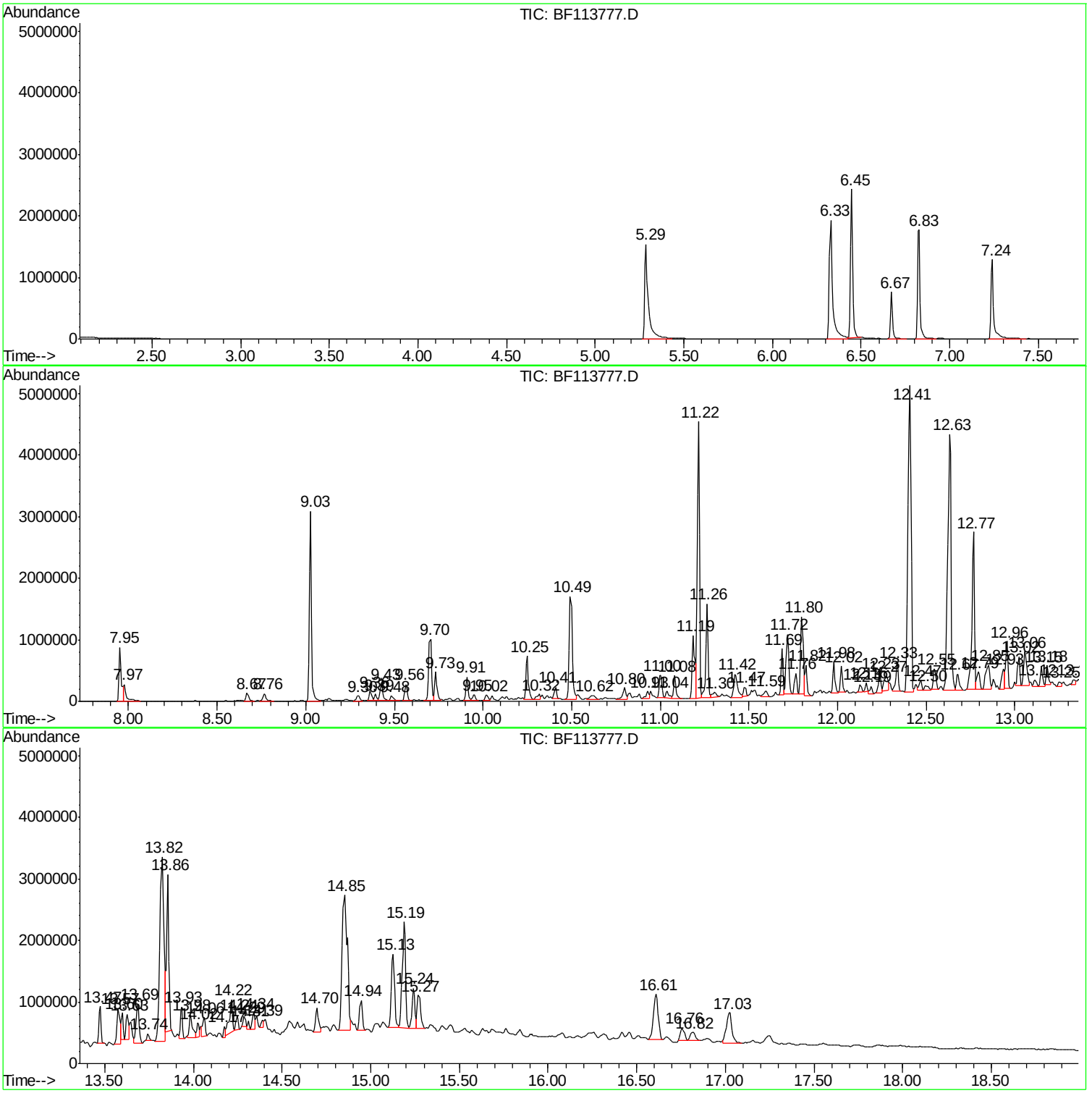
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

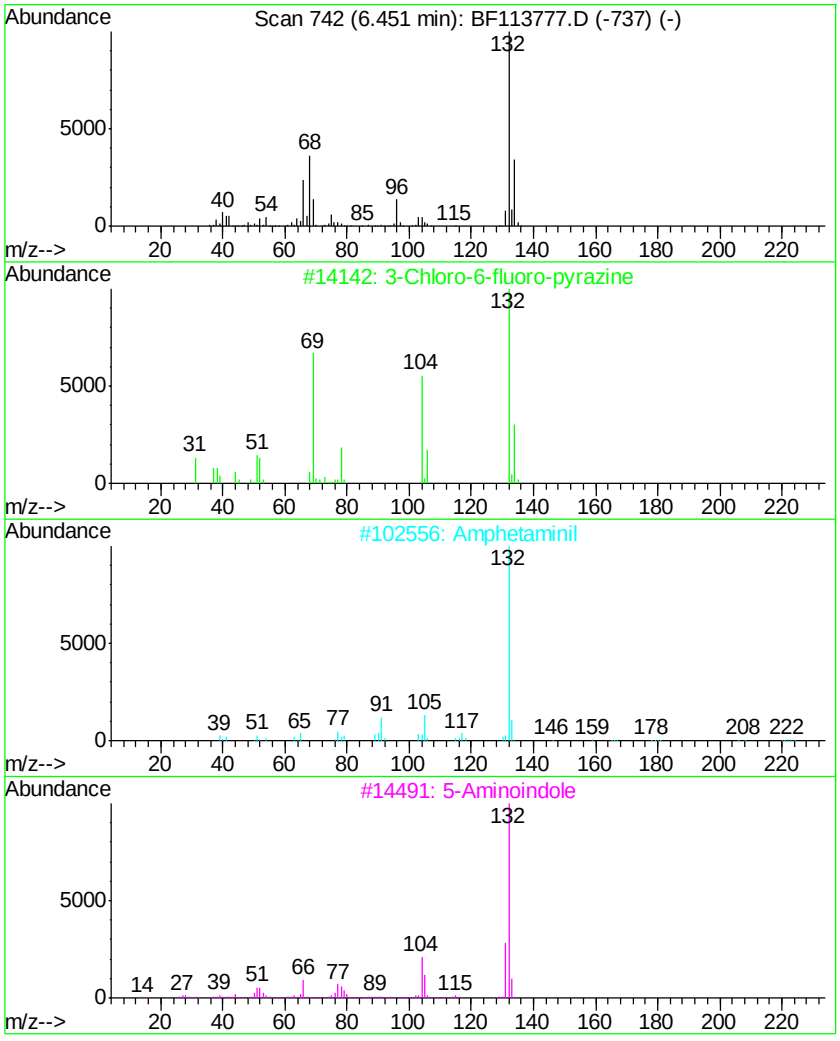
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

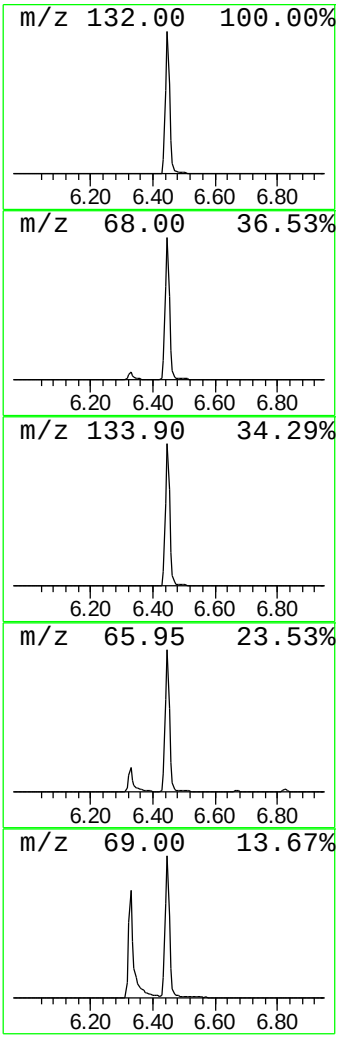
****

Peak Number 1 unknown6.45 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.45	68.97 ng	2299830	1,4-Dichlorobenzene-d4	6.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	Amphetaminil	250	C17H18N2	017590-01-1	12
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
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Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

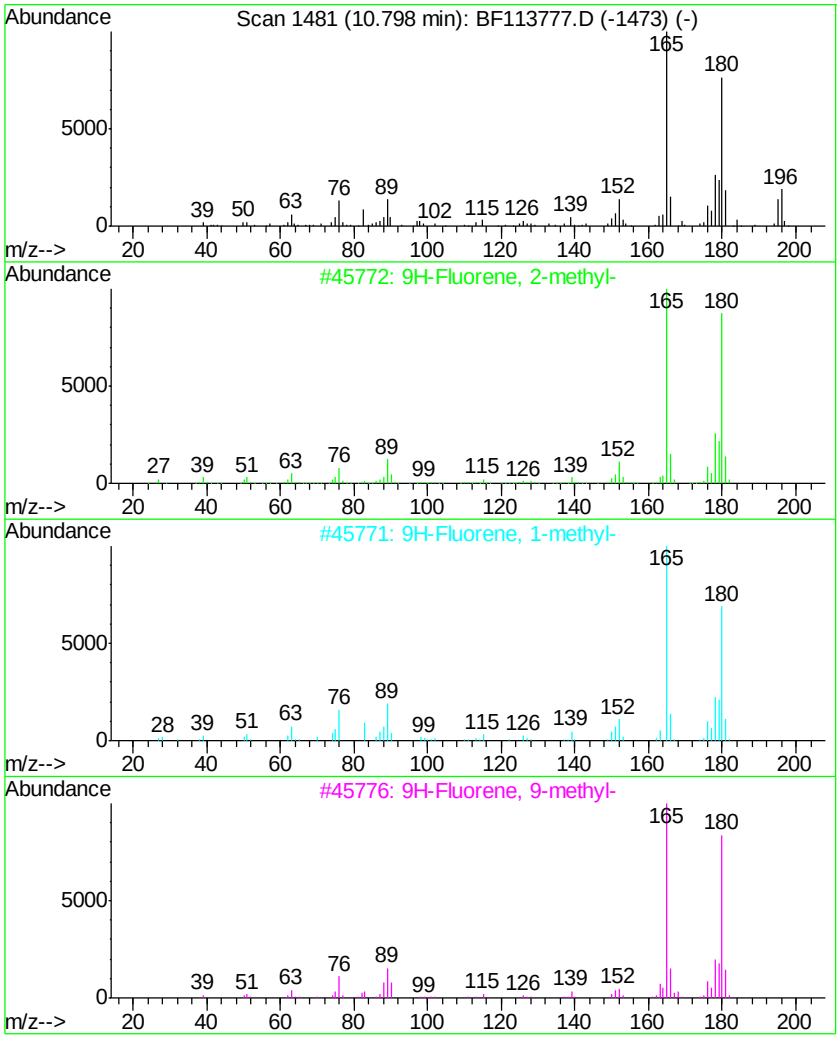
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

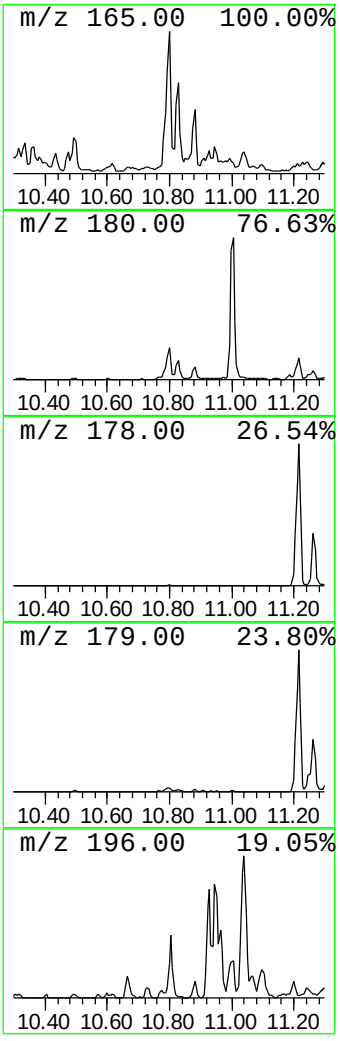
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	4.48 ng	245535	Phenanthrene-d10	11.19

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	89
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	86
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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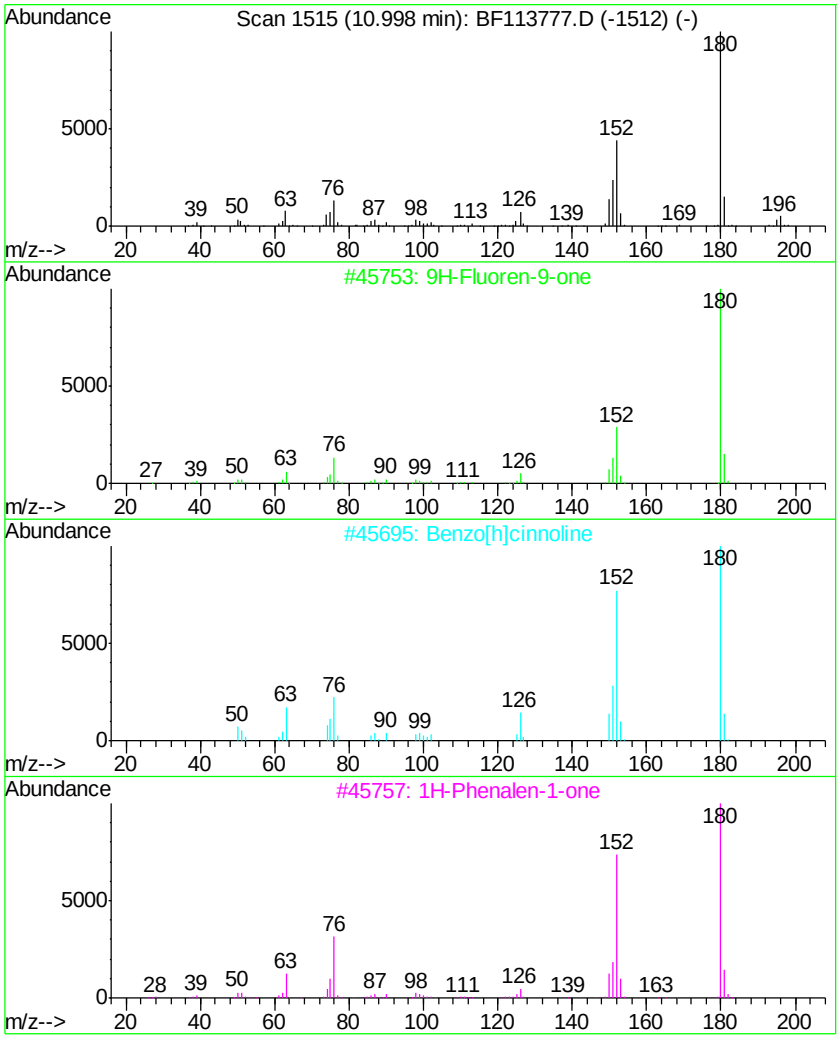
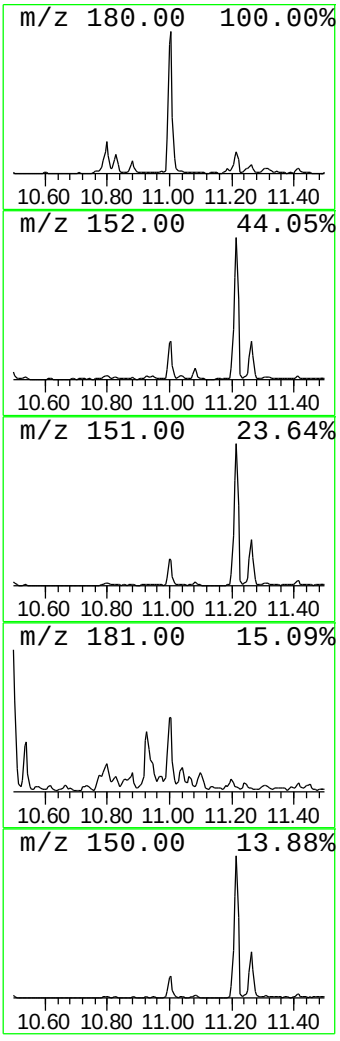
Peak Number 4 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	6.64 ng	363963	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	94
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
4	2,4-Diazaphenanthrene	180	C12H8N2	000230-28-4	43
5	1,3-Diazaphenanthrene	180	C12H8N2	000229-75-4	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

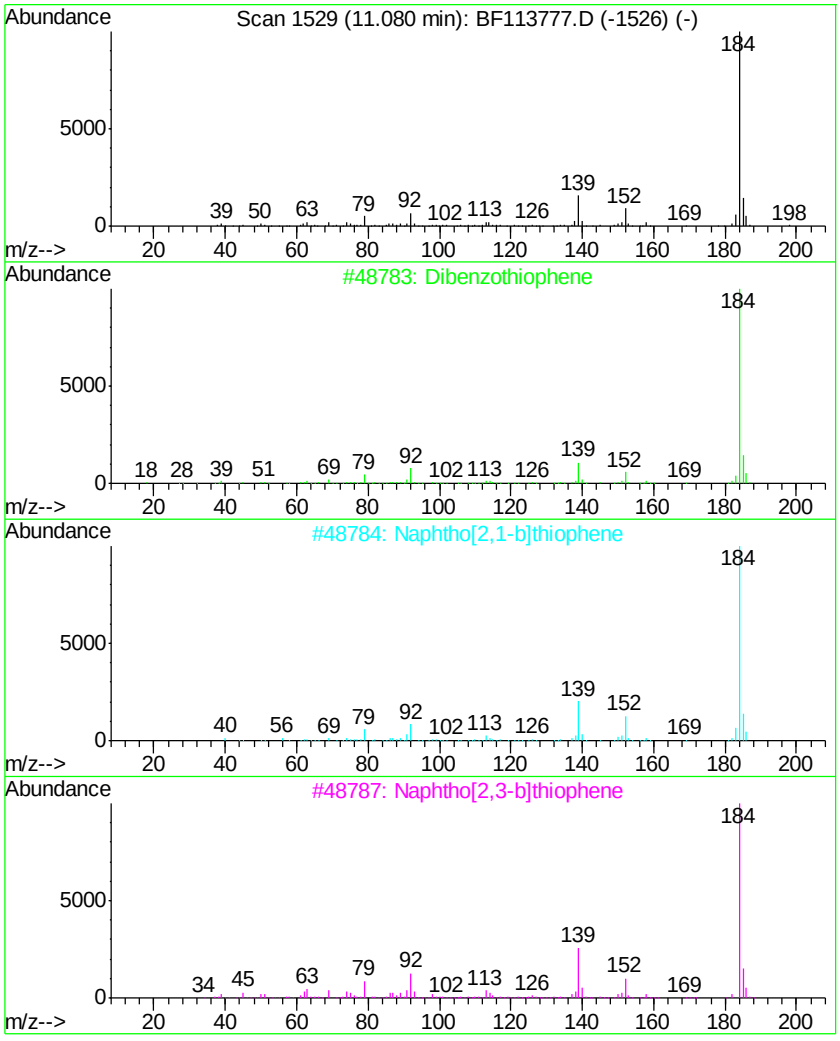
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

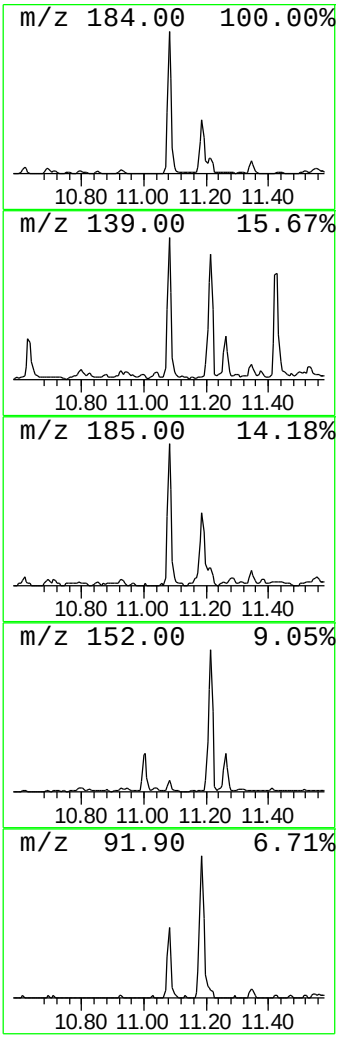
****

Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	6.69 ng	366662	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

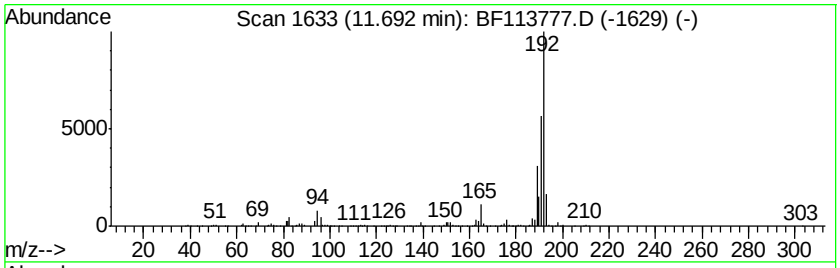
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

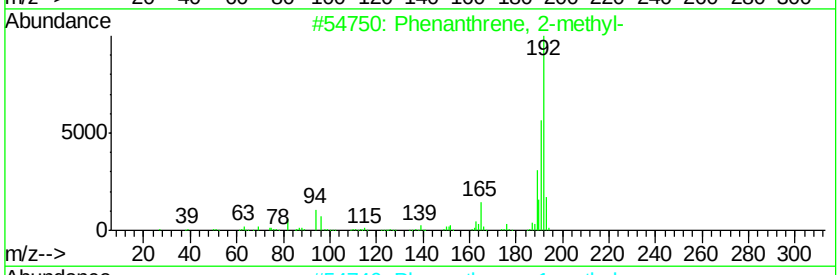
****

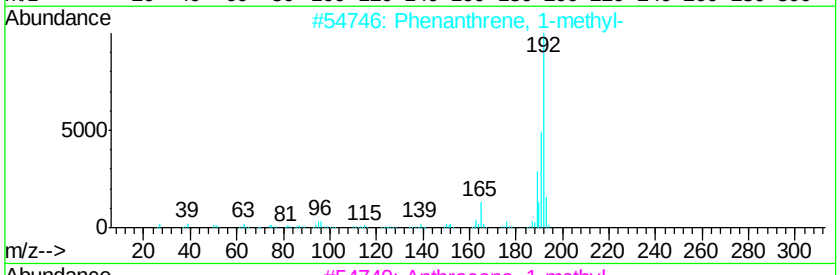
Peak Number 6 1H-Indene, 1-phenyl- Concentration Rank 8

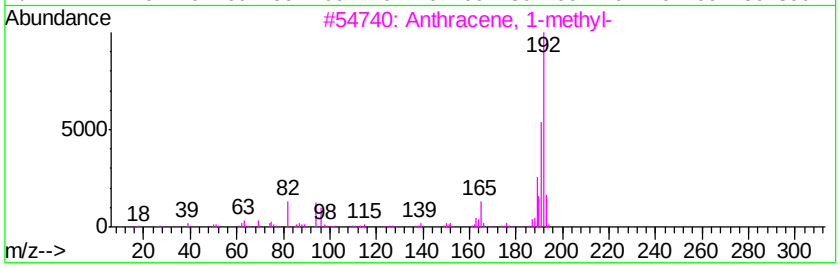
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	11.18 ng	613053	Phenanthrene-d10	11.19

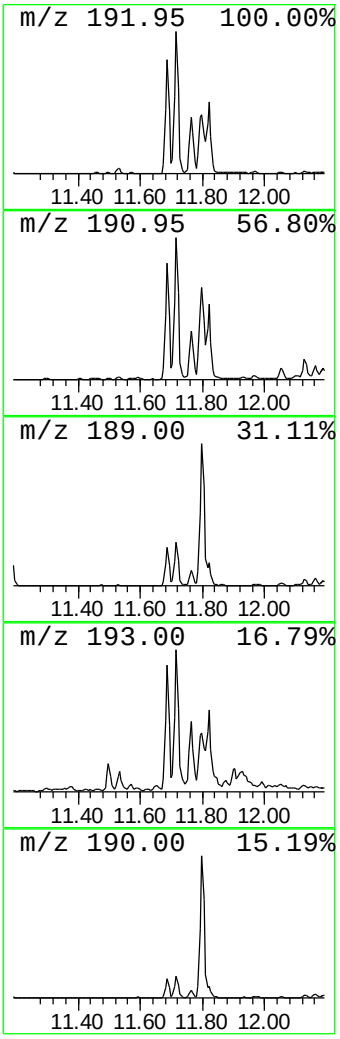
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94











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Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
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Instrument : BNA_F
ClientSampleId : OR-02-041219-B

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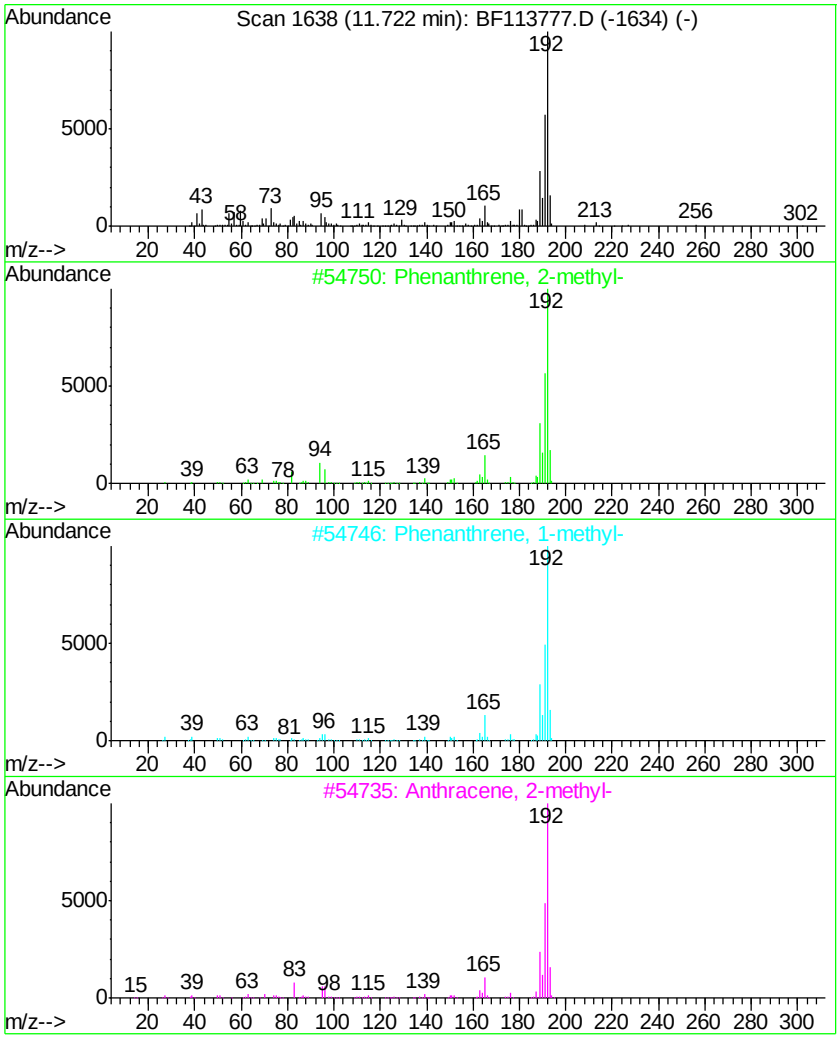
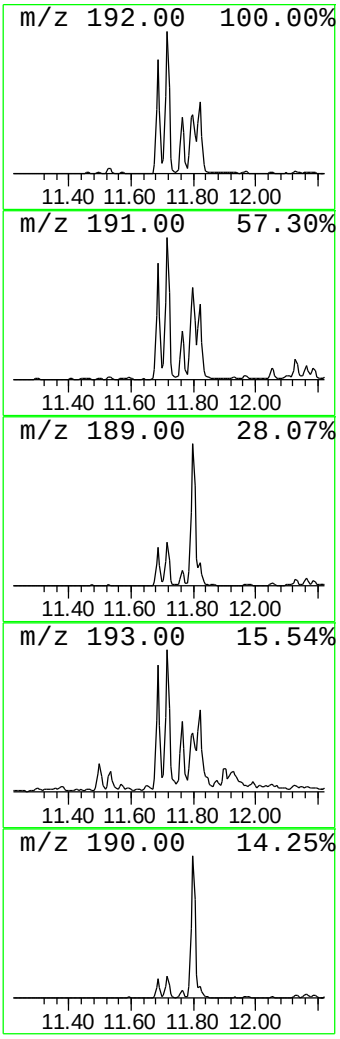
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	16.91 ng	927176	Phenanthrene-d10	11.19

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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ClientSampleId : OR-02-041219-B

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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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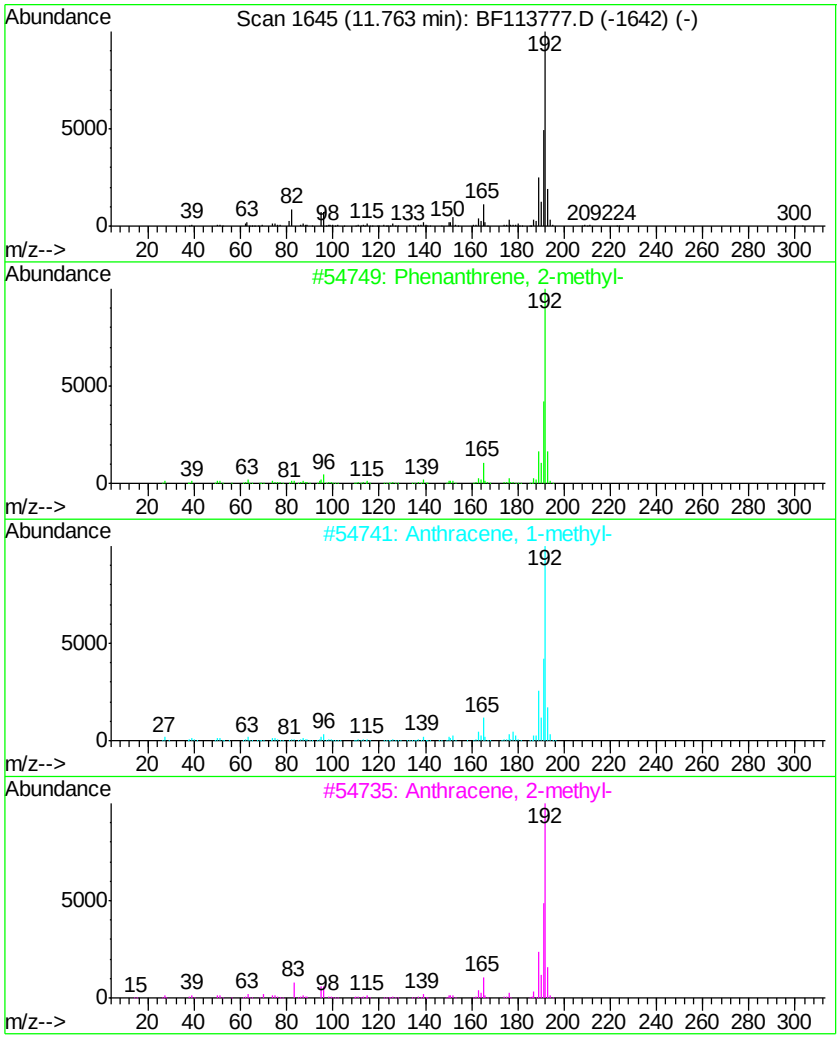
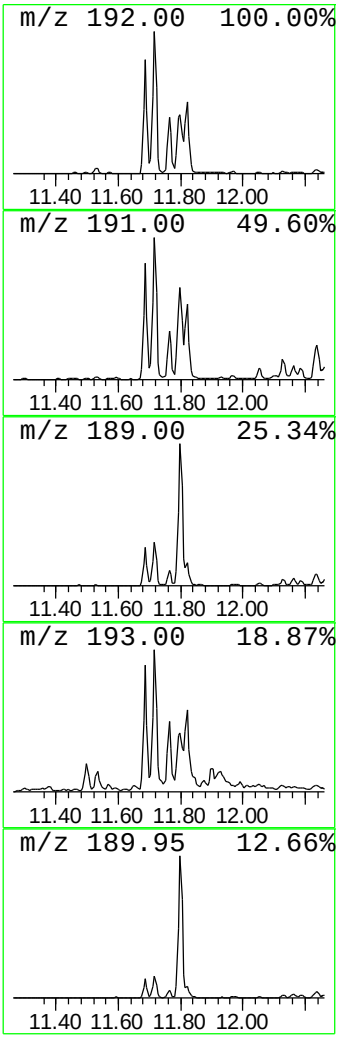
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	4.88 ng	267587	Phenanthrene-d10	11.19

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	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Instrument : BNA_F
ClientSampleId : OR-02-041219-B

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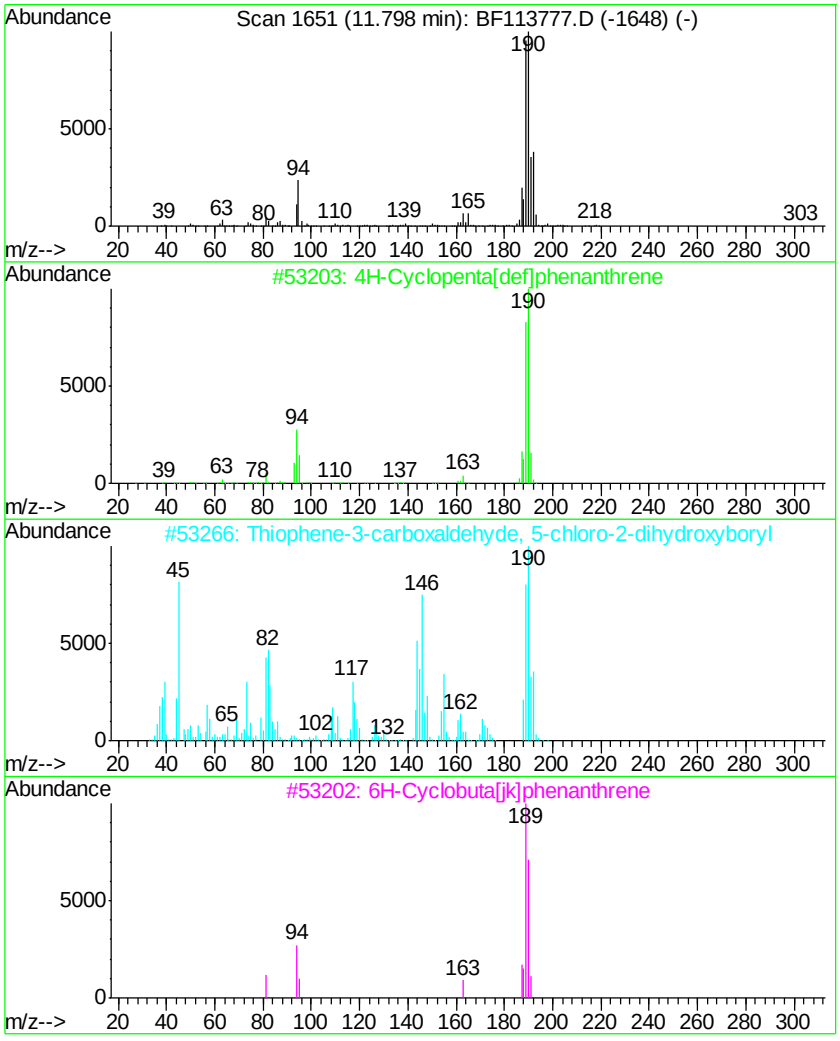
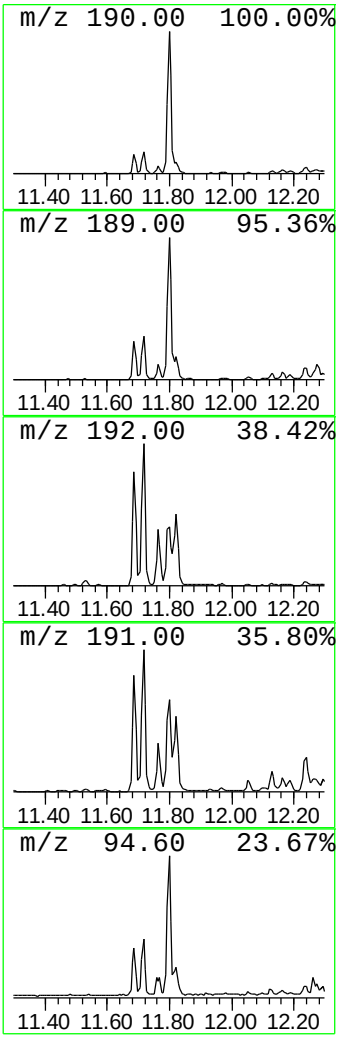
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	21.11 ng	1157560	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	28
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	25





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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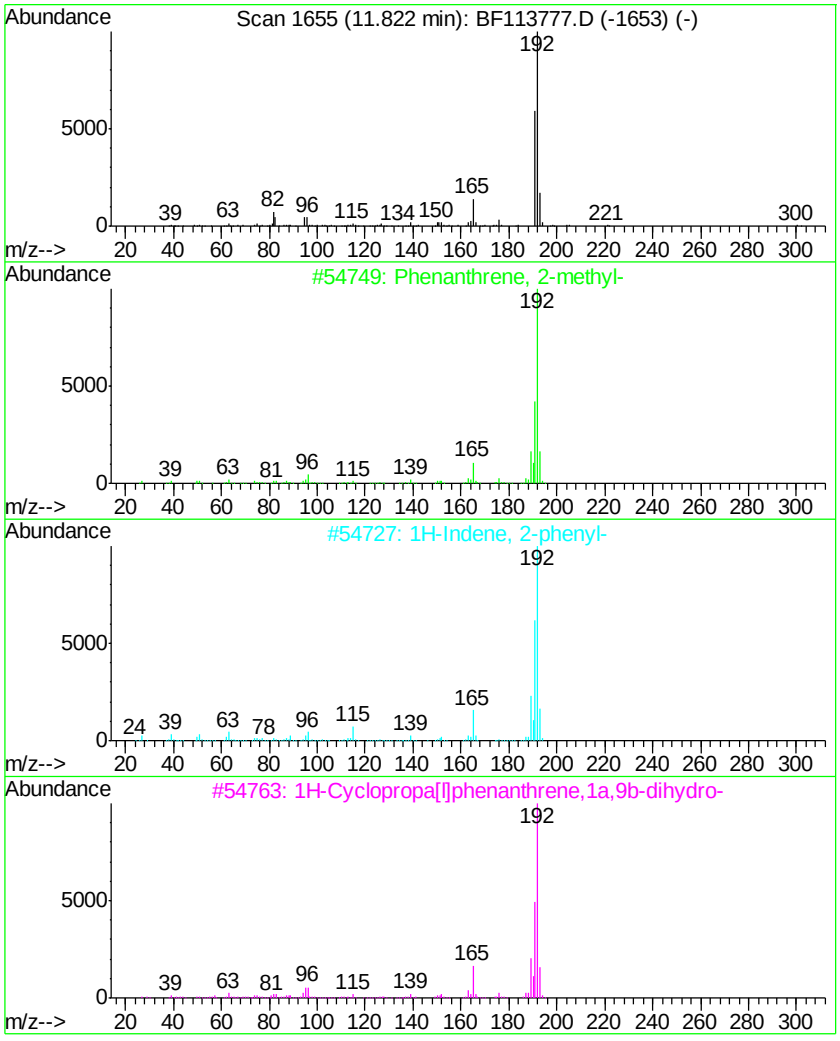
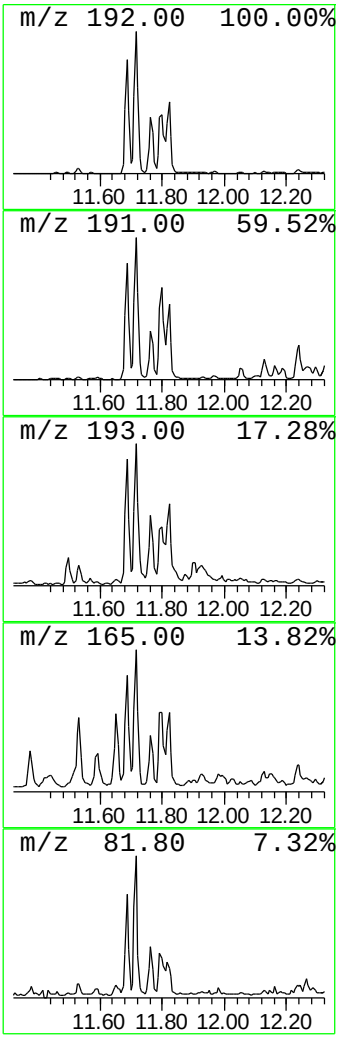
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	7.61 ng	417321	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





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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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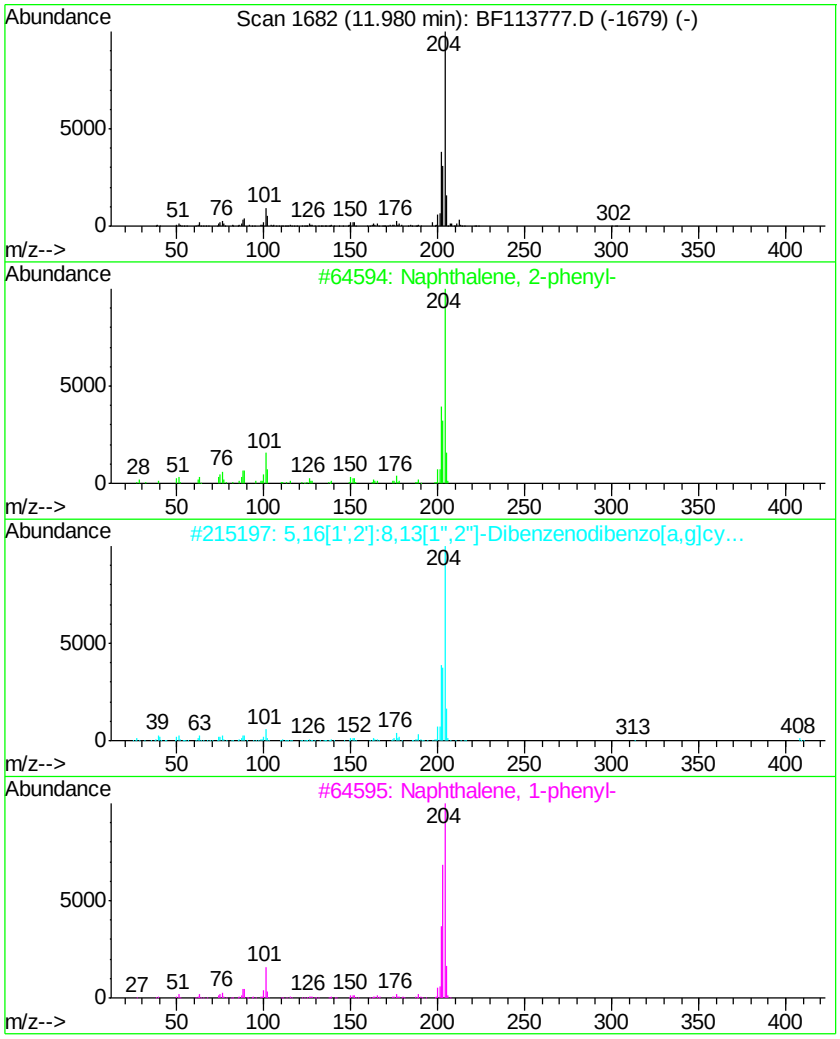
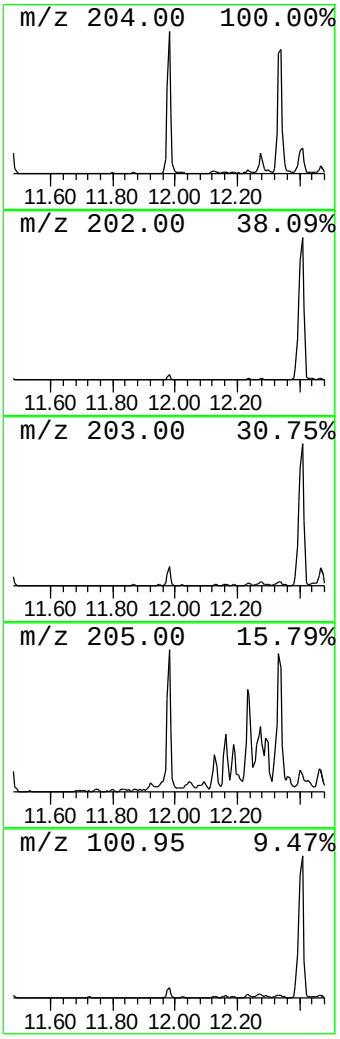
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	7.27 ng	398758	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
4	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	47





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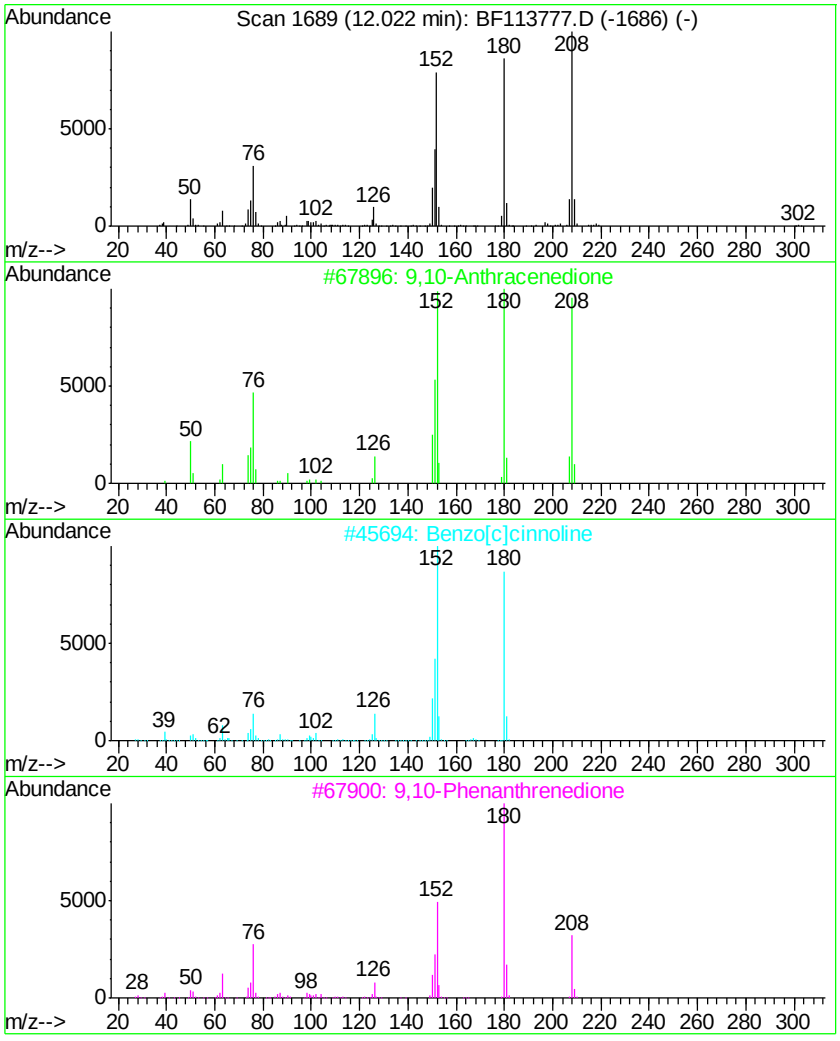
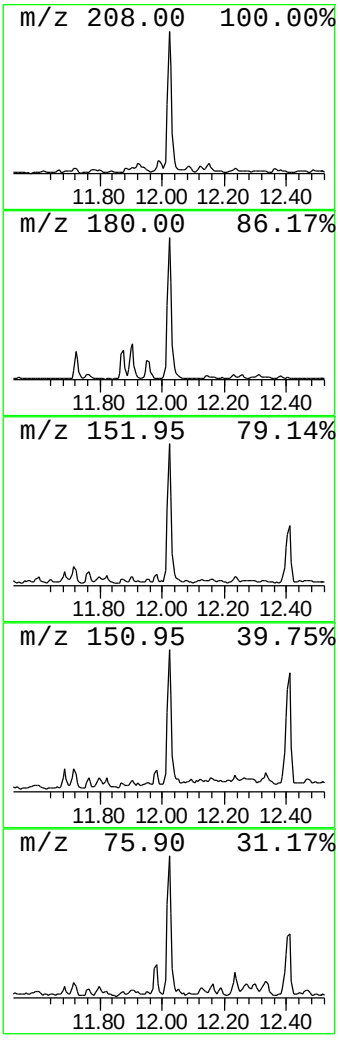
Peak Number 12 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	6.70 ng	367195	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
3	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	58





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Sample : K2199-11
Misc :
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Instrument : BNA_F
ClientSampleId : OR-02-041219-B

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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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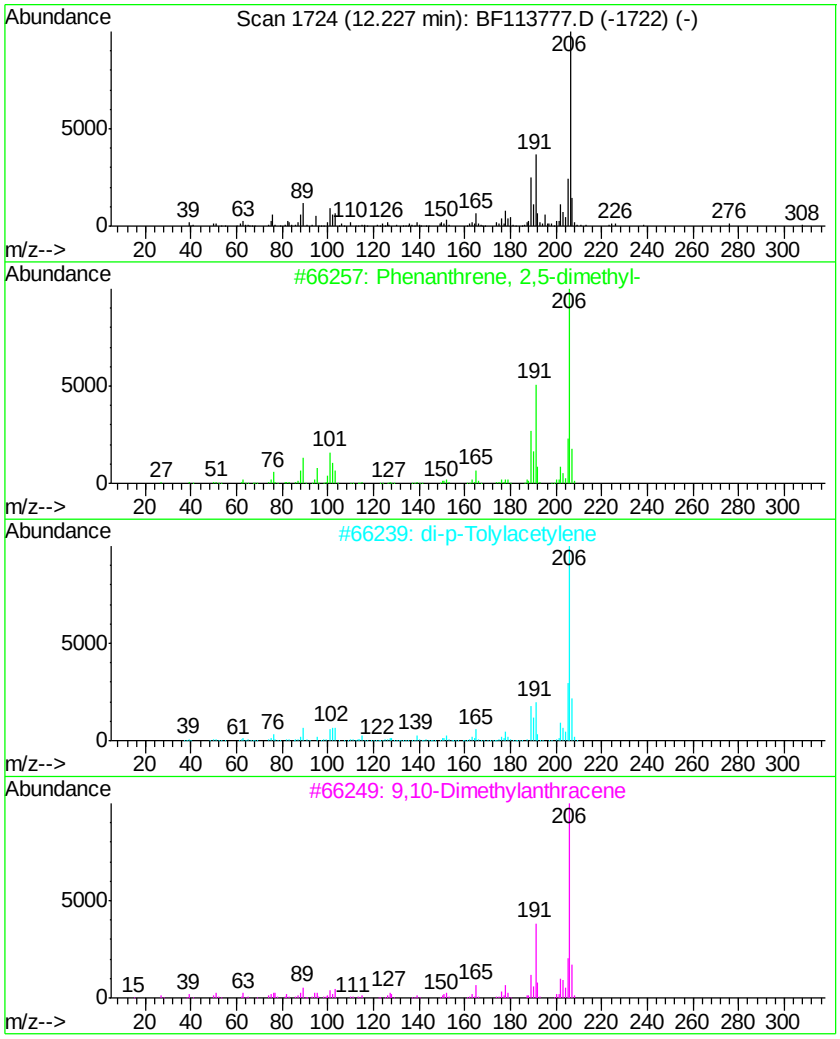
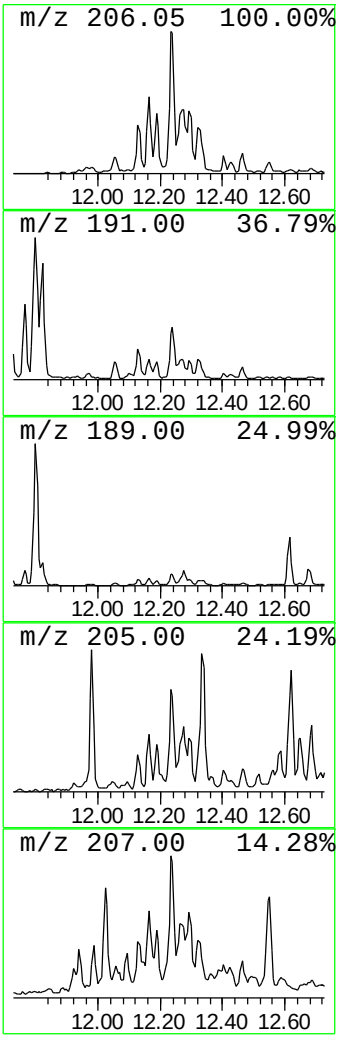
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	6.29 ng	344630	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93





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Sample : K2199-11
Misc :
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ClientSampleId : OR-02-041219-B

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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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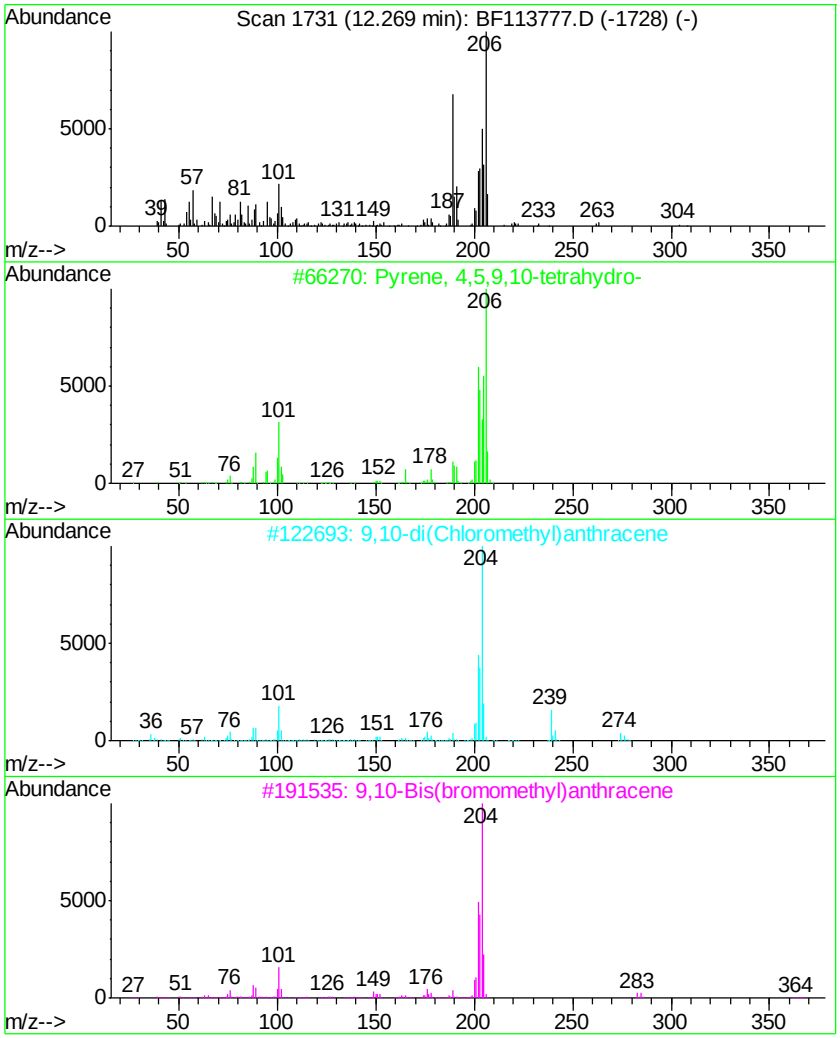
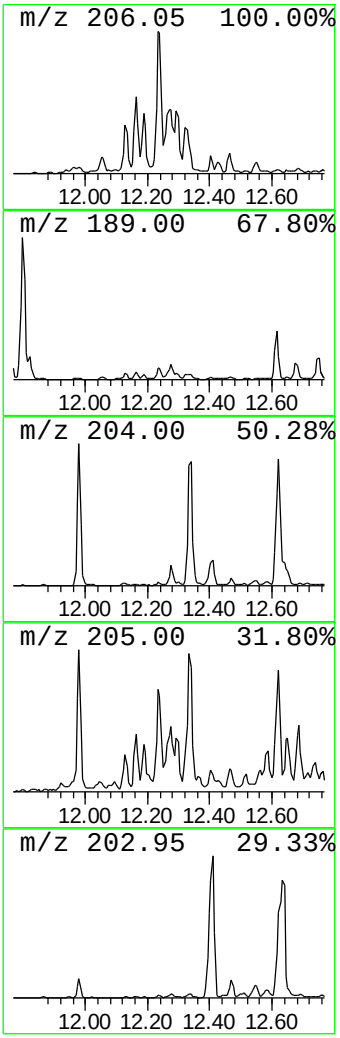
Peak Number 14 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	6.35 ng	347954	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	70
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	46
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	42
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	38





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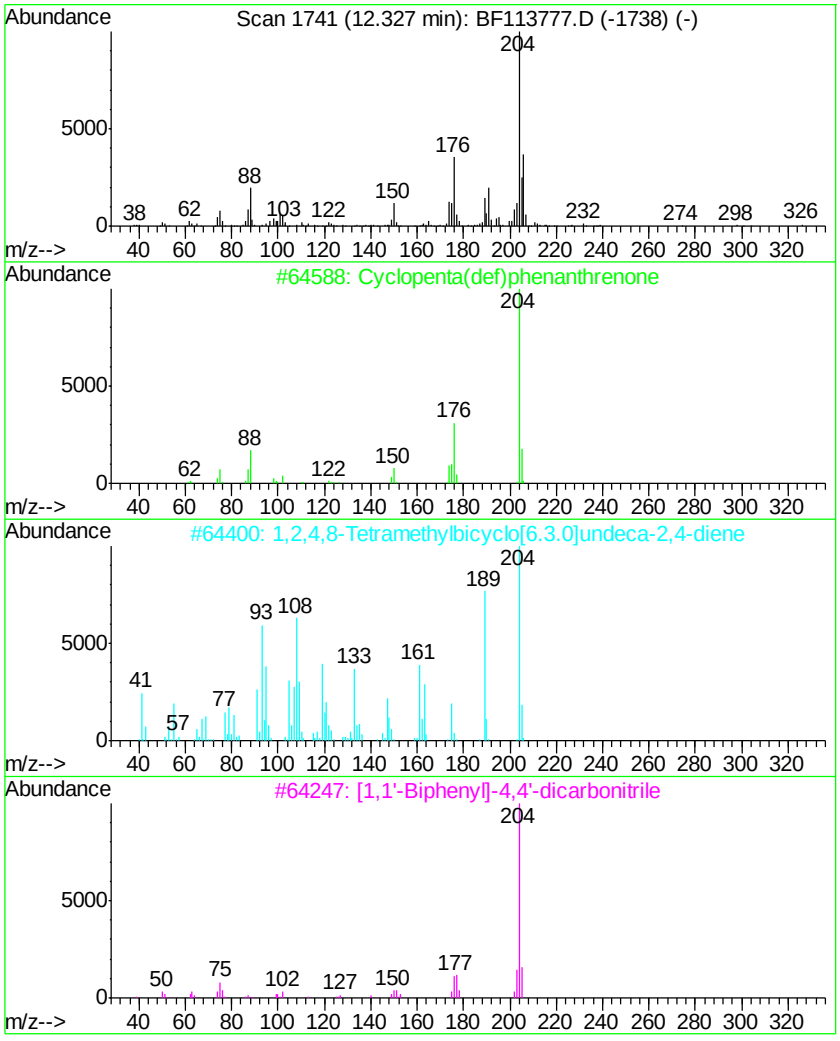
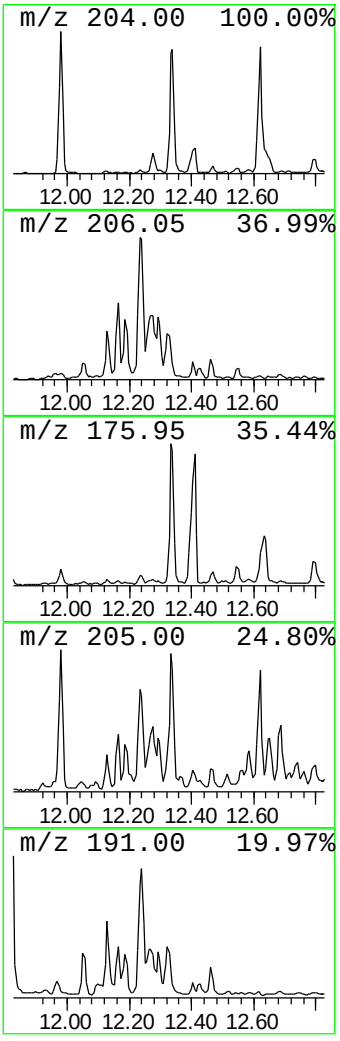
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	8.92 ng	488928	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	60
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50





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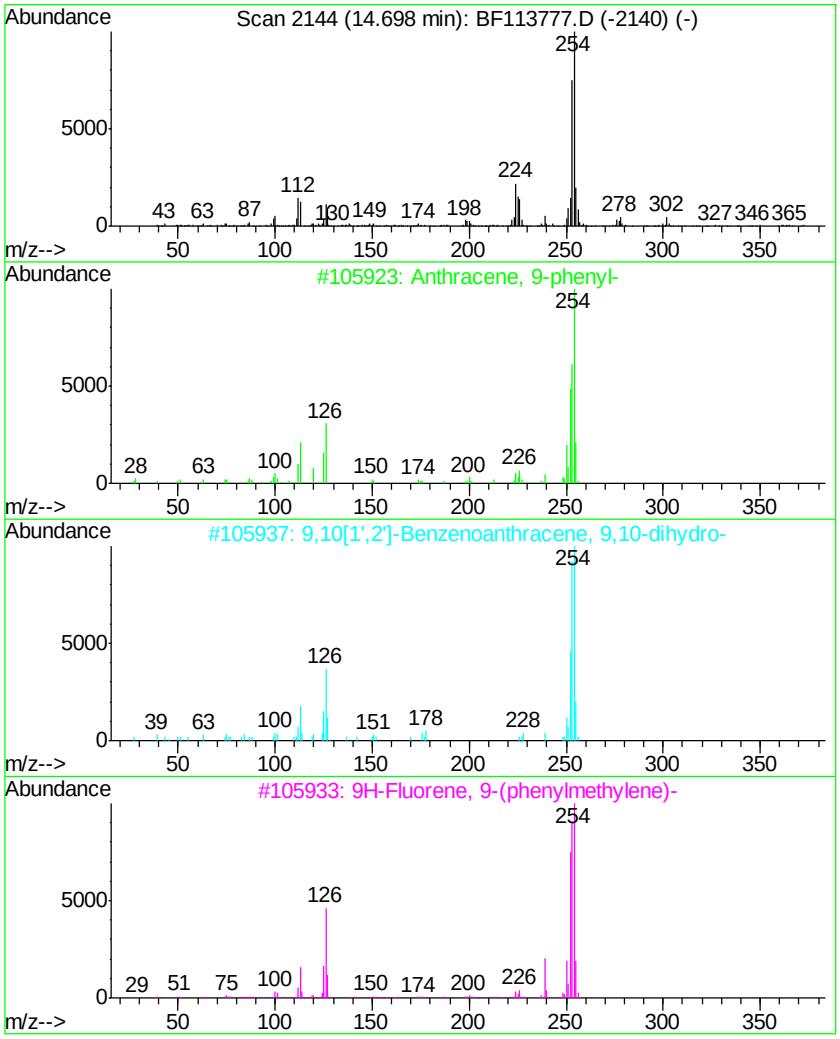
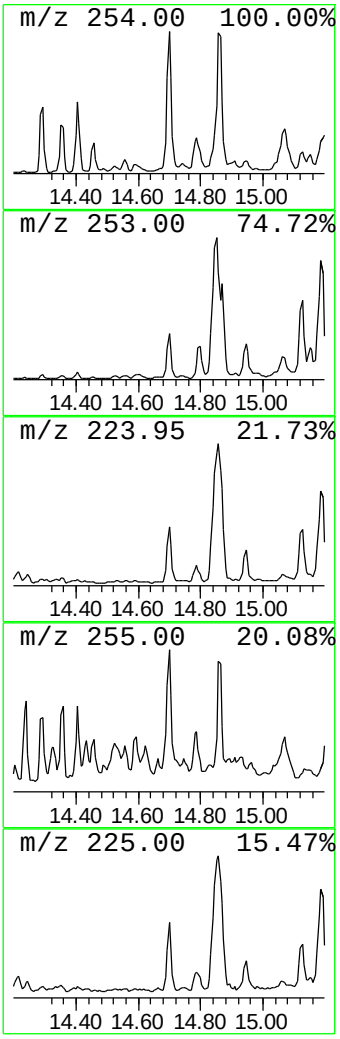
Peak Number 16 Anthracene, 9-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.70	11.54 ng	448931	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	74
2	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	74
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	74
4	1,2'-Binaphthalene	254	C20H14	004325-74-0	74
5	Imidazo[1,2-b]-1,2,4-triazine, 6...	254	C14H14N4O	1000277-24-4	72





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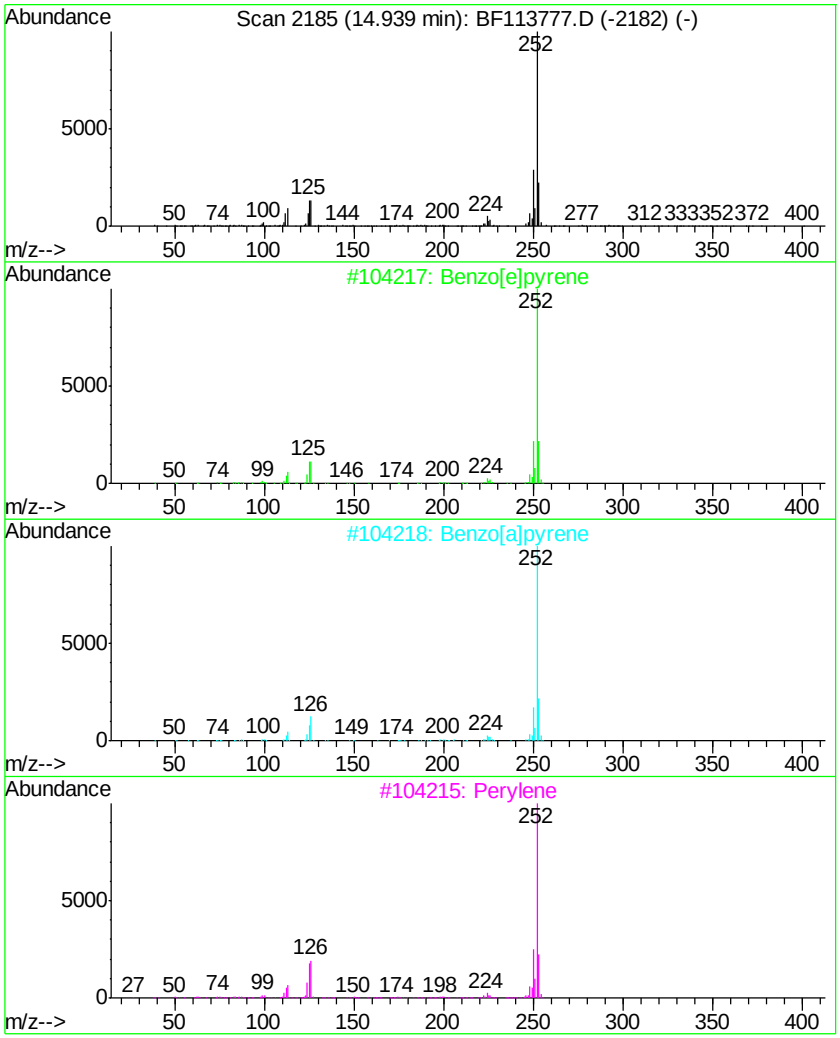
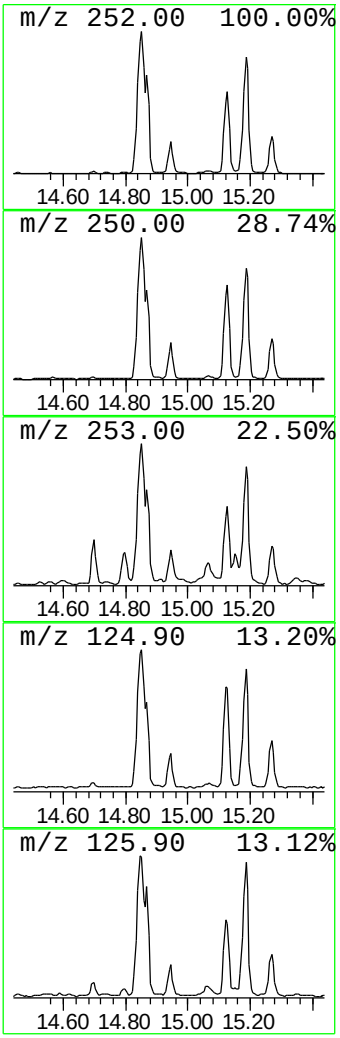
Peak Number 17 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.94	12.60 ng	489833	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Perylene	252	C20H12	000198-55-0	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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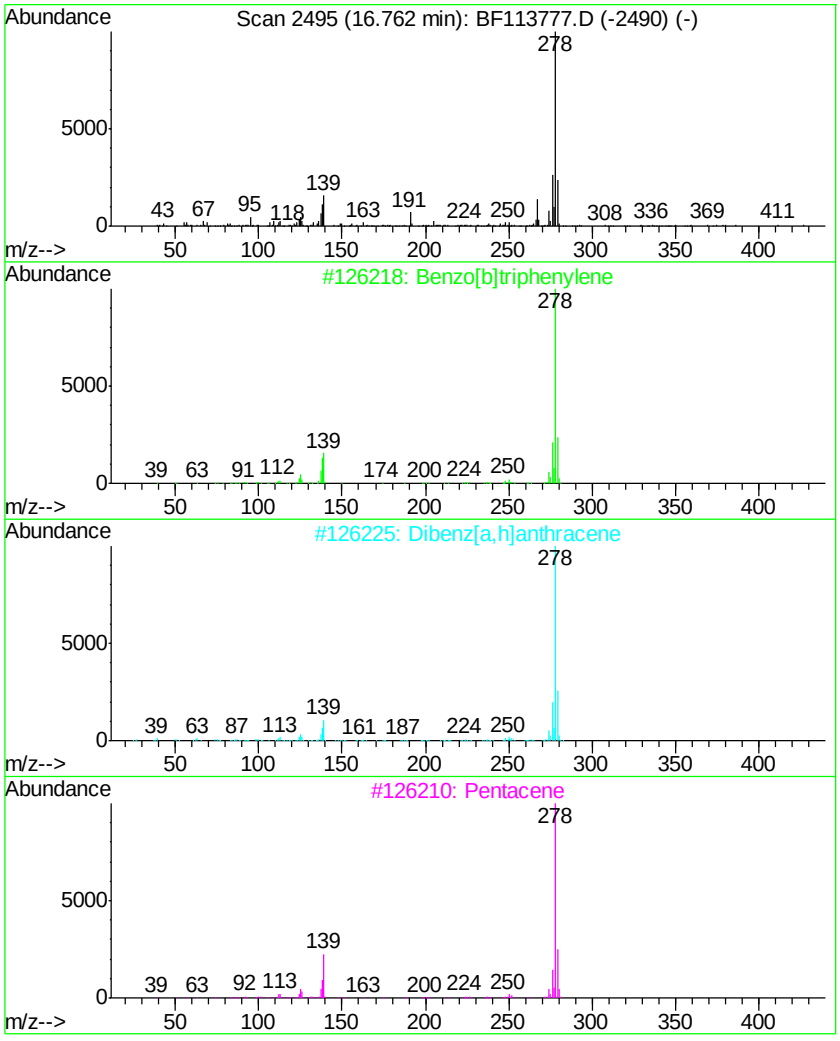
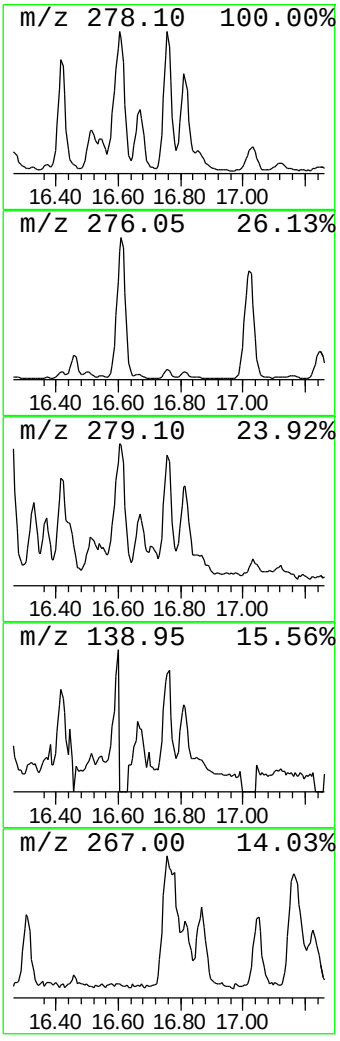
Peak Number 19 Benzo[b]triphenylene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	8.11 ng	315490	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
3	Pentacene	278	C22H14	000135-48-8	96
4	Picene	278	C22H14	000213-46-7	93
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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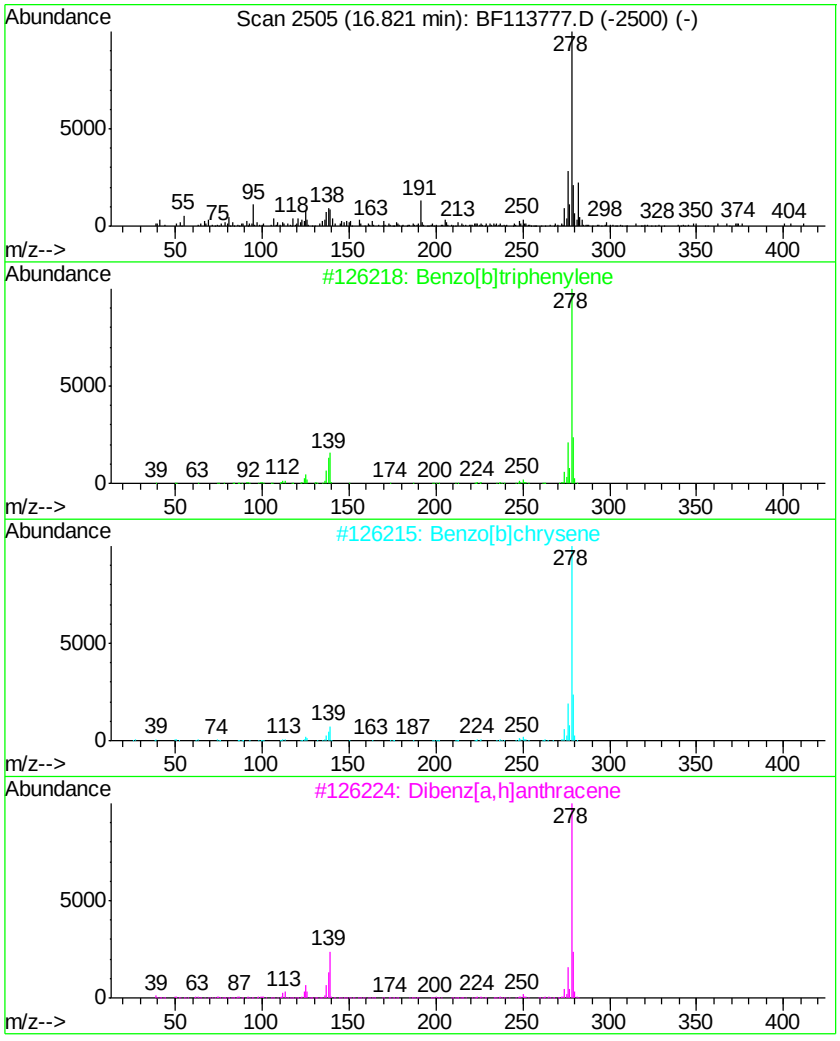
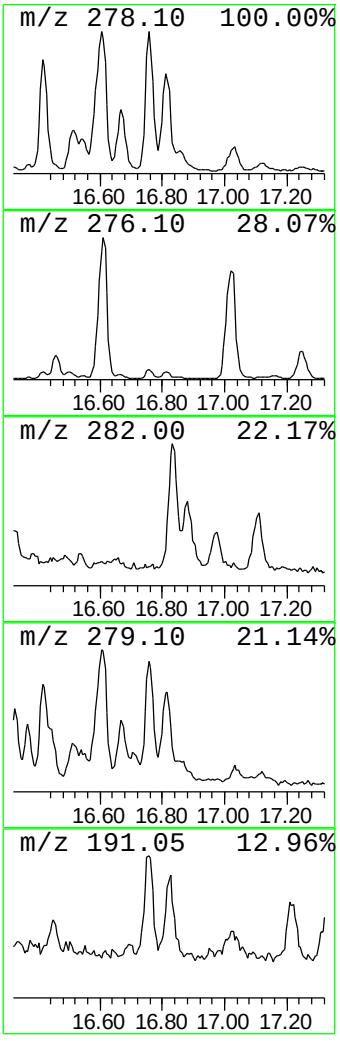
Peak Number 20 Picene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.82	6.64 ng	258178	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	91
2	Benzo[b]chrysene	278	C22H14	000214-17-5	83
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	83
4	Picene	278	C22H14	000213-46-7	83
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	70





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041519\
Data File : BF113777.D
Acq On : 15 Apr 2019 22:00
Operator : JU/SJ
Sample : K2199-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-02-041219-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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
unknown6.45	6.45	69.0	ng	2299830	1	6.67	666947	20.0
9H-Fluorene, 2-me...	10.80	4.5	ng	245535	4	11.19	1096660	20.0
9H-Fluoren-9-one	11.00	6.6	ng	363963	4	11.19	1096660	20.0
Naphtho[2,1-b]thi...	11.08	6.7	ng	366662	4	11.19	1096660	20.0
1H-Indene, 1-phenyl-	11.69	11.2	ng	613053	4	11.19	1096660	20.0
Phenanthrene, 1-m...	11.72	16.9	ng	927176	4	11.19	1096660	20.0
Anthracene, 2-met...	11.76	4.9	ng	267587	4	11.19	1096660	20.0
4H-Cyclopenta[def...	11.80	21.1	ng	1157560	4	11.19	1096660	20.0
Phenanthrene, 2-m...	11.82	7.6	ng	417321	4	11.19	1096660	20.0
Naphthalene, 2-ph...	11.98	7.3	ng	398758	4	11.19	1096660	20.0
9,10-Anthracenedione	12.02	6.7	ng	367195	4	11.19	1096660	20.0
Phenanthrene, 2,5...	12.23	6.3	ng	344630	4	11.19	1096660	20.0
Pyrene, 4,5,9,10-...	12.27	6.3	ng	347954	4	11.19	1096660	20.0
Cyclopenta(def)ph...	12.33	8.9	ng	488928	4	11.19	1096660	20.0
Anthracene, 9-phe...	14.70	11.5	ng	448931	6	15.24	777716	20.0
Benzo[e]pyrene	14.94	12.6	ng	489833	6	15.24	777716	20.0
Benzo[b]triphenylene	16.76	8.1	ng	315490	6	15.24	777716	20.0
Picene	16.82	6.6	ng	258178	6	15.24	777716	20.0