LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

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-BF100818.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	5.316	546	549	576	rBV	381445	710085	4.31%	0.628%
2	6.345	721	724	742	rBV	458872	834814	5.07%	0.738%
3	6.469	742	745	753	rBV	706924	811086	4.92%	0.717%
4	6.698	780	784	802	rBV	412179	557511	3.38%	0.493%
5	6.851	807	810	826	rVV	588798	665443	4.04%	0.589%
6	7.257	876	879	896	rBV	315165	527451	3.20%	0.467%
7	7.975	998	1001	1020	rBV	558142	727332	4.41%	0.643%
8	9.051	1178	1184	1195	rBV	791152	856470	5.20%	0.758%
9	9.386	1237	1241	1244	rVV	261019	293941	1.78%	0.260%
10	9.586	1270	1275	1281	rBV	276615	314968	1.91%	0.279%
11	9.722	1291	1298	1301	rBV	607252	785913	4.77%	0.695%
12	9.763	1301	1305	1308	rVB	3202051	2999906	18.21%	2.653%
13	9.880	1321	1325	1329	rBV	263657	268742	1.63%	0.238%
14	9.927	1330	1333	1337	rVV	453730	428044	2.60%	0.379%
15	10.016	1345	1348	1350	rBV	198664	213826	1.30%	0.189%
16	10.039	1350	1352	1355	rVV	218574	236361	1.43%	0.209%
17	10.233	1382	1385	1388	rVV2	272254	334384	2.03%	0.296%
18	10.269	1388	1391	1397	rVV	1193143	1393991	8.46%	1.233%
19	10.333	1397	1402	1408	rVV	847410	1227004	7.45%	1.085%
20	10.380	1408	1410	1412	rVV	215831	211513	1.28%	0.187%
21	10.427	1415	1418	1424	rVV	799418	769954	4.67%	0.681%
22	10.510	1429	1432	1438	rVV	1119769	1495774	9.08%	1.323%
23	10.557	1438	1440	1444	rVB	209249	198796	1.21%	0.176%
24	10.627	1447	1452	1457	rBV	3165368	2980716	18.09%	2.636%
25	10.757	1469	1474	1478	rVV2	382997	465978	2.83%	0.412%
26	10.816	1478	1484	1487	rVV3	583944	839889	5.10%	0.743%
27	10.845	1487	1489	1492	rVV	311385	311033	1.89%	0.275%
28	10.898	1492	1498	1501	rVV3	250516	387495	2.35%	0.343%
29	10.945	1501	1506	1508	rVV2	545431	677790	4.11%	0.599%
30	10.969	1508	1510	1512	rVV	542017	562017	3.41%	0.497%
31	11.022	1515	1519	1522	rVV2	847939	1050419	6.38%	0.929%
32	11.057	1522	1525	1530	rVV	740243	1066495	6.47%	0.943%
33	11.104	1530	1533	1539	rVB	398148	556619	3.38%	0.492%
34	11.210	1544	1551	1552	rBV	522298	663275	4.03%	0.587%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

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-BF100818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.233	1552	1555	1561	rVV	3197681	3640852	22.10%	3.220%
36	11.280	1561	1563	1566	rVV	936437	803786	4.88%	0.711%
37	11.316	1566	1569	1575	rVB4	249128	417001	2.53%	0.369%
38	11.433	1586	1589	1591	rBV3	238370	272251	1.65%	0.241%
39	11.457	1591	1593	1597	rVV2	365546	484537	2.94%	0.429%
40	11.498	1597	1600	1603	rVV	735067	703816	4.27%	0.622%
41	11.533	1603	1606	1612	rVB2	305099	464838	2.82%	0.411%
42	11.616	1615	1620	1625	rBV	228095	293441	1.78%	0.260%
43	11.704	1631	1635	1638	rVV	1071941	1168020	7.09%	1.033%
44	11.733	1638	1640	1645	rVB	1537051	1575861	9.56%	1.394%
45	11.786	1645	1649	1651	rBV	463700	474191	2.88%	0.419%
46	11.821	1651	1655	1664	rVB	3016289	4221330	25.62%	3.734%
47	11.939	1672	1675	1679	rVV2	182027	233006	1.41%	0.206%
48	11.998	1682	1685	1689	rVV	1351010	1305125	7.92%	1.154%
49	12.039	1689	1692	1695	rVV2	313748	391483	2.38%	0.346%
50	12.145	1707	1710	1713	rBV	384539	399131	2.42%	0.353%
51	12.180	1713	1716	1718	rVV	333356	368286	2.24%	0.326%
52	12.204	1718	1720	1725	rVB	256699	263428	1.60%	0.233%
53	12.257	1725	1729	1732	rBV	471283	624954	3.79%	0.553%
54	12.292	1732	1735	1741	rVV2	291608	492370	2.99%	0.435%
55	12.374	1742	1749	1752	rVV	1385421	1893193	11.49%	1.674%
56	12.457	1752	1763	1766	rVV	6280190	16475642	100.00%	14.572%
57	12.486	1766	1768	1772	rVB	381309	413808	2.51%	0.366%
58	12.574	1779	1783	1787	rBV2	960935	1091453	6.62%	0.965%
59	12.663	1791	1798	1800	rVV2	5644635	10495706	63.70%	9.283%
60	12.698	1803	1804	1809	rVB2	786803	634275	3.85%	0.561%
61	12.768	1812	1816	1817	rBV	1010985	950546	5.77%	0.841%
62	12.786	1817	1819	1821	rVB	458380	352560	2.14%	0.312%
63	12.868	1826	1833	1836	rBV3	968290	1733661	10.52%	1.533%
64	12.951	1843	1847	1848	rVV2	724663	861035	5.23%	0.762%
65	12.974	1848	1851	1854	rVV	1338162	1352236	8.21%	1.196%
66	13.039	1858	1862	1864	rVV	617282	624974	3.79%	0.553%
67	13.074	1864	1868	1870	rVV	1185789	1365318	8.29%	1.208%
68	13.092	1870	1871	1875	rVV	516970	552965	3.36%	0.489%
69	13.127	1875	1877	1880	rVV	302751	282798	1.72%	0.250%
70	13.163	1880	1883	1886	rVV	405279	415349	2.52%	0.367%
71	13.198	1886	1889	1897	rVB3	462441	663528	4.03%	0.587%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

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-BF100818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.327	1907	1911	1913	rBV2	558275	575286	3.49%	0.509%
73	13.410	1923	1925	1929	rVB	641166	545758	3.31%	0.483%
74	13.480	1934	1937	1941	rBV	1218657	1203177	7.30%	1.064%
75	13.586	1951	1955	1958	rBV	1518032	1733278	10.52%	1.533%
76	13.615	1958	1960	1962	rVV	932325	816860	4.96%	0.722%
77	13.639	1962	1964	1970	rVV3	779607	1191386	7.23%	1.054%
78	13.692	1970	1973	1975	rVV	861450	901734	5.47%	0.798%
79	13.715	1975	1977	1980	rVV	396022	376685	2.29%	0.333%
80	13.757	1981	1984	1990	rVB	345692	425173	2.58%	0.376%
81	13.839	1990	1998	2000	rBV	3129308	4919112	29.86%	4.351%
82	13.874	2000	2004	2010	rVB	3090083	4140090	25.13%	3.662%
83	13.945	2014	2016	2021	rVB2	251276	216807	1.32%	0.192%
84	14.057	2031	2035	2039	rVB3	449030	597553	3.63%	0.529%
85	14.221	2058	2063	2065	rVV	485220	475087	2.88%	0.420%
86	14.251	2065	2068	2073	rVB3	289759	326700	1.98%	0.289%
87	14.298	2074	2076	2081	rVB3	141310	199841	1.21%	0.177%
88	14.339	2081	2083	2085	rBV2	250786	229891	1.40%	0.203%
89	14.410	2093	2095	2101	rVB2	175128	213026	1.29%	0.188%
90	14.521	2111	2114	2124	rVB2	243466	395408	2.40%	0.350%
91	14.692	2139	2143	2150	rVB4	198592	382216	2.32%	0.338%
92	14.851	2164	2170	2178	rBV	1756880	3550922	21.55%	3.141%
93	14.939	2182	2185	2189	rVB	183795	207183	1.26%	0.183%
94	15.121	2212	2216	2221	rVB	800010	1027000	6.23%	0.908%
95	15.180	2221	2226	2230	rBV	888803	1023616	6.21%	0.905%
96	15.233	2230	2235	2238	rVV2	397308	590502	3.58%	0.522%
97	15.262	2238	2240	2246	rVB2	289041	367418	2.23%	0.325%
98	15.539	2282	2287	2297	rVB4	87454	241004	1.46%	0.213%
99	16.580	2458	2464	2472	rBV2	284849	648676	3.94%	0.574%
100	16.980	2526	2532	2543	rVB	171421	361059	2.19%	0.319%

Sum of corrected areas: 113064237

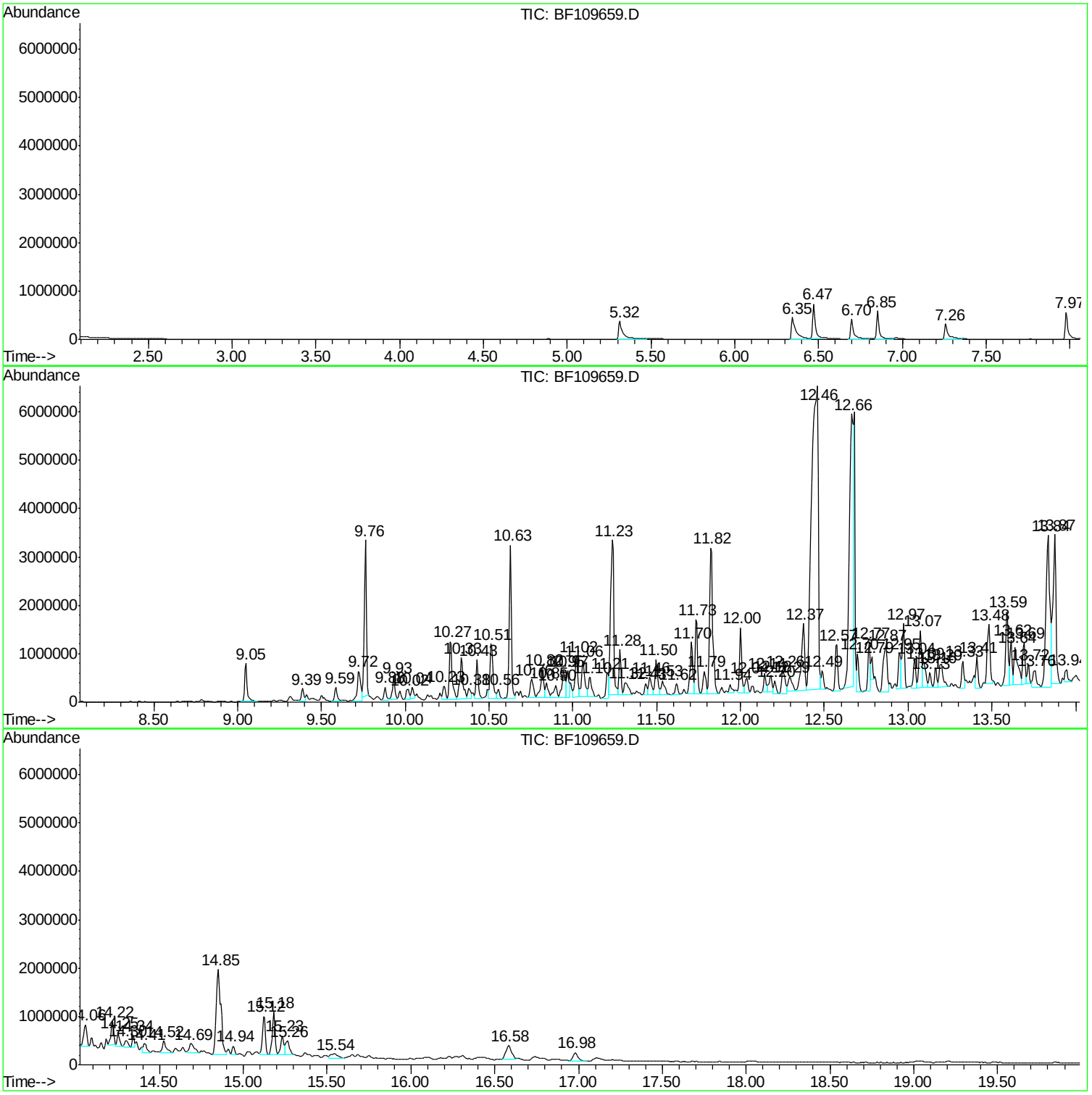
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.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\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

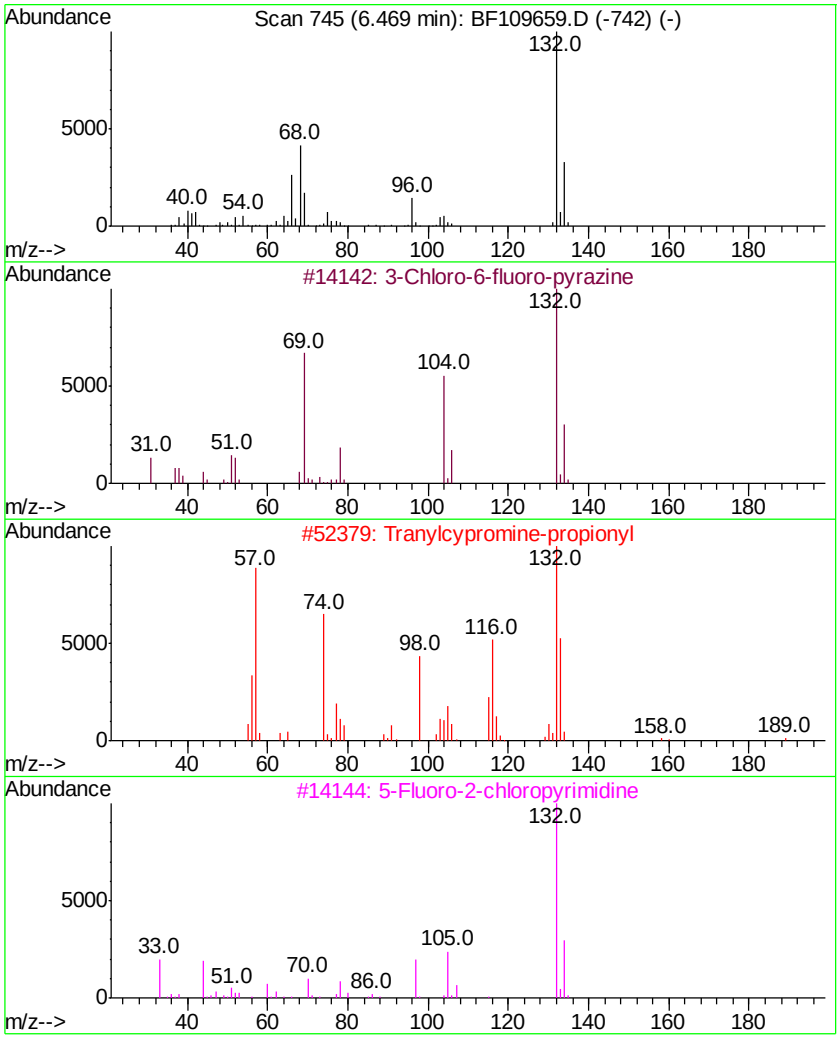
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

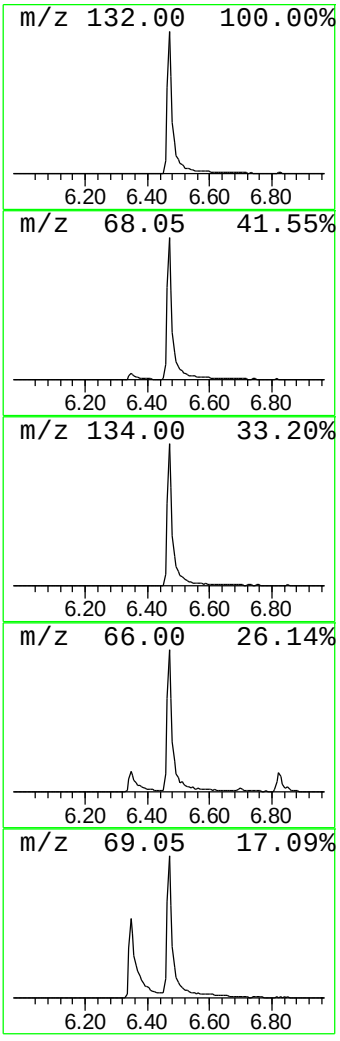
****

Peak Number 1 unknown6.47 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	29.10 ng	811086	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

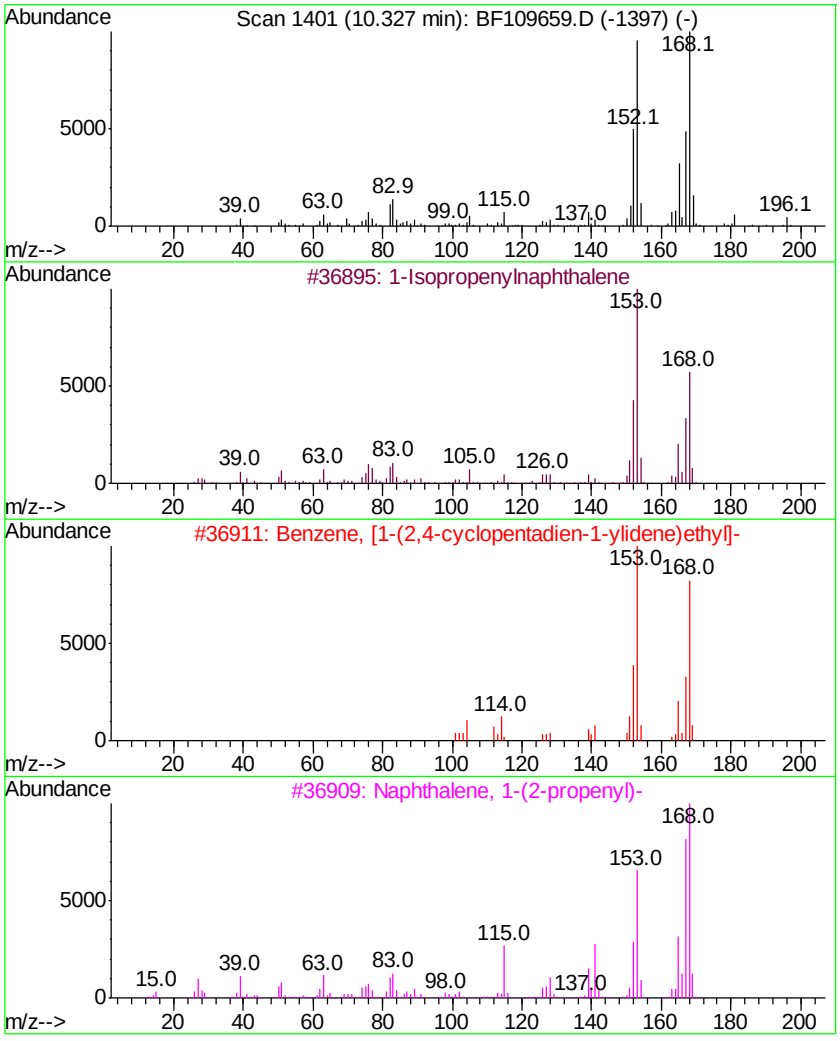
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

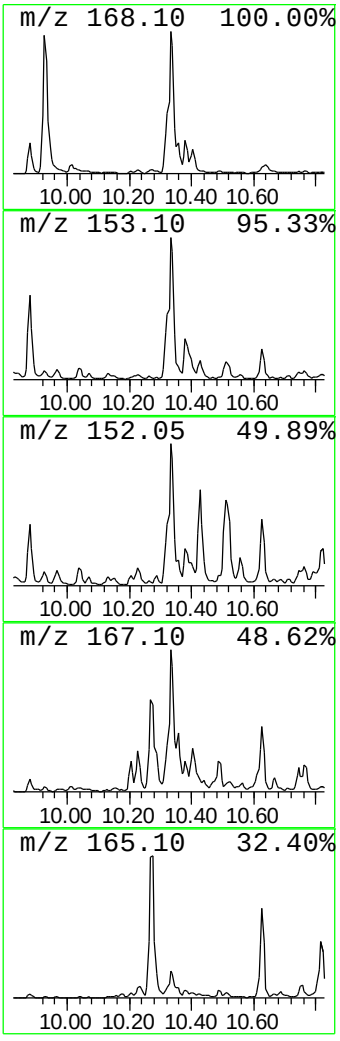
****

Peak Number 3 1-Isopropenylnaphthalene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.33	31.22 ng	1227000	Acenaphthene-d10	9.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	95
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	90
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	59
4	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	53
5	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	52





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

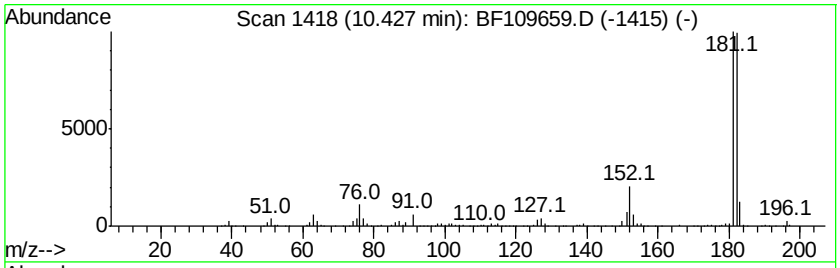
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

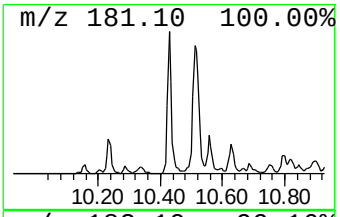
****

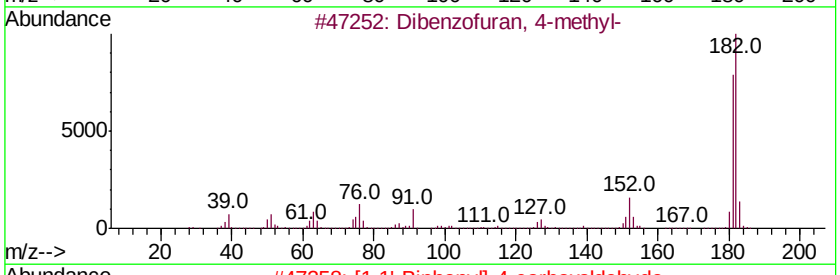
Peak Number 4 Dibenzofuran, 4-methyl- Concentration Rank 14

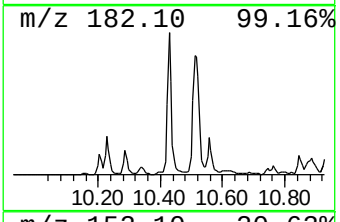
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.43	19.59 ng	769954	Acenaphthene-d10	9.72

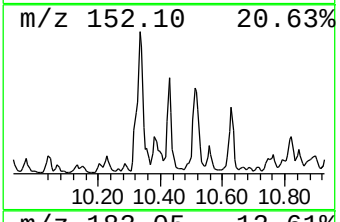
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72
5	9H-Xanthene	182	C13H10O	000092-83-1	64

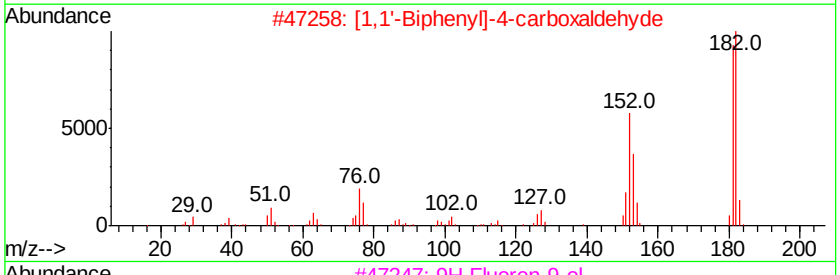


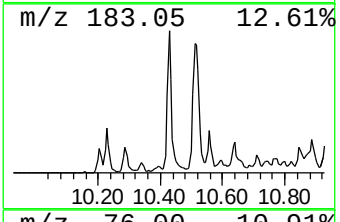


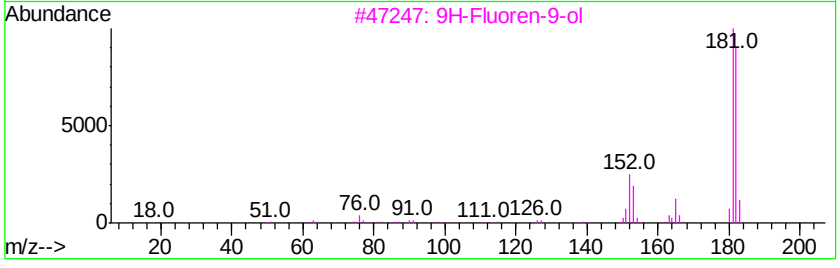


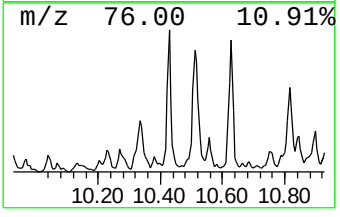












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

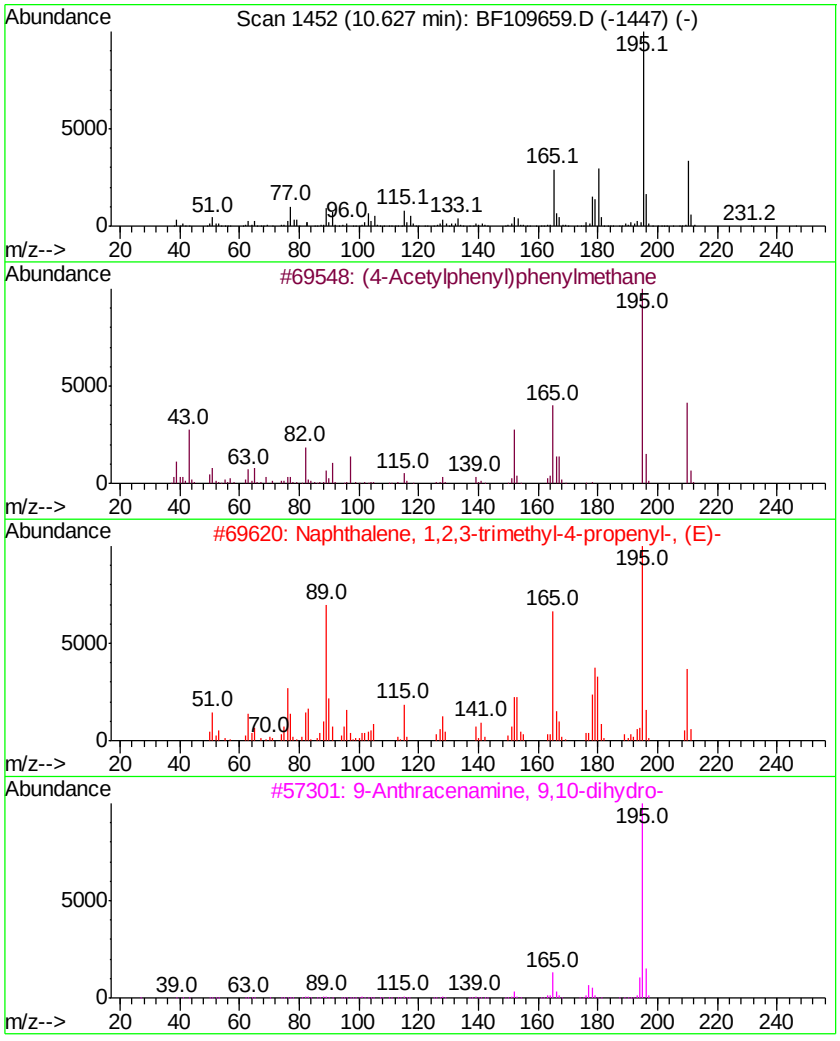
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

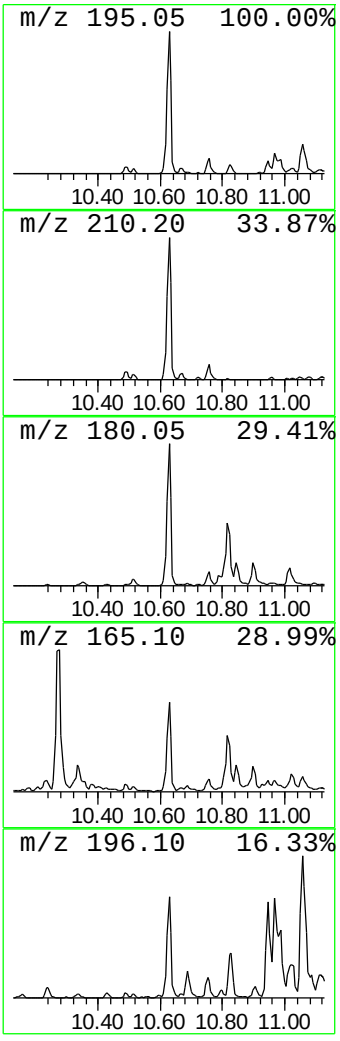
****

Peak Number 5 (4-Acetylphenyl)phenylmethane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.63	89.88 ng	2980720	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(4-Acetylphenyl)phenylmethane	210	C15H14O	000782-92-3	76
2	Naphthalene, 1,2,3-trimethyl-4-p...	210	C16H18	026137-53-1	60
3	9-Anthracenamine, 9,10-dihydro-	195	C14H13N	097825-91-7	58
4	Benzenamine, 3-(2-phenylethenyl)...	195	C14H13N	014064-82-5	58
5	2-Methoxybenzyl alcohol, tert-bu...	252	C14H24O2Si	1000364-16-6	50





Library Search Compound Report

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Operator : JU/SJ
Sample : J5305-02 2X
Misc :
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ClientSampleId : 331-SAND-SOIL

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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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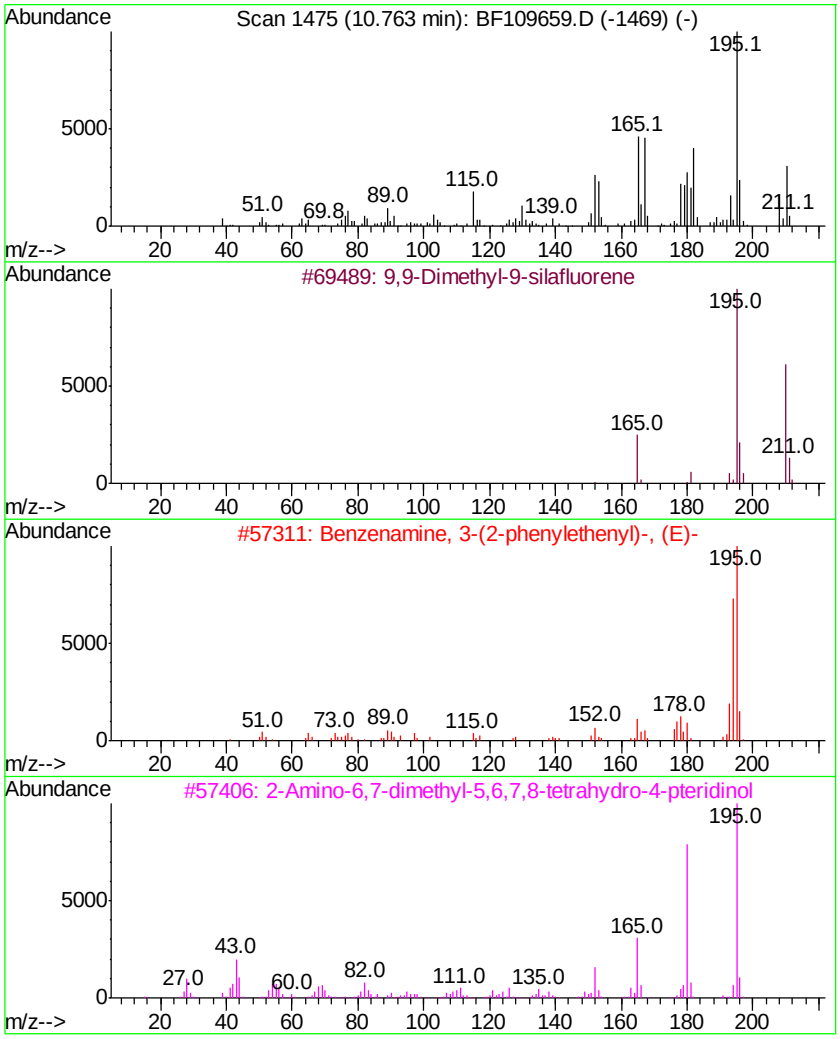
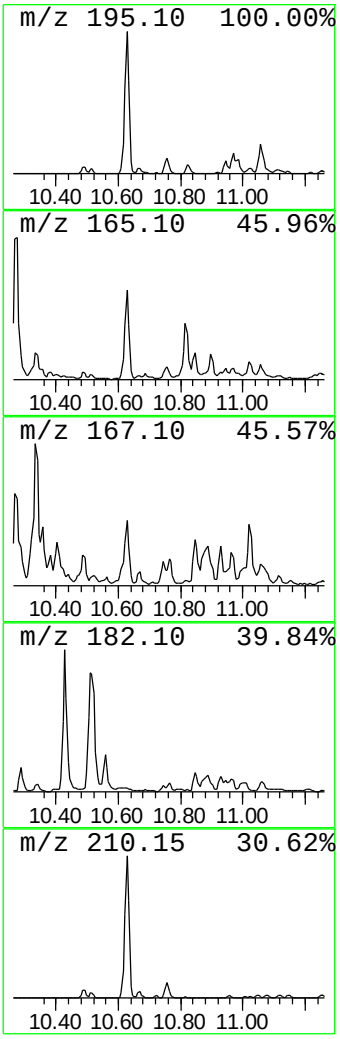
Peak Number 6 9,9-Dimethyl-9-silafluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.76	14.05 ng	465978	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,9-Dimethyl-9-silafluorene	210	C14H14Si	013688-68-1	59
2	Benzenamine, 3-(2-phenylethenyl)...	195	C14H13N	014064-82-5	50
3	2-Amino-6,7-dimethyl-5,6,7,8-tet...	195	C8H13N5O	1000239-36-2	47
4	Carbazole, 4,5-dimethyl-	195	C14H13N	018992-66-0	47
5	9H-Carbazol-3-amine, 9-ethyl-	210	C14H14N2	000132-32-1	47





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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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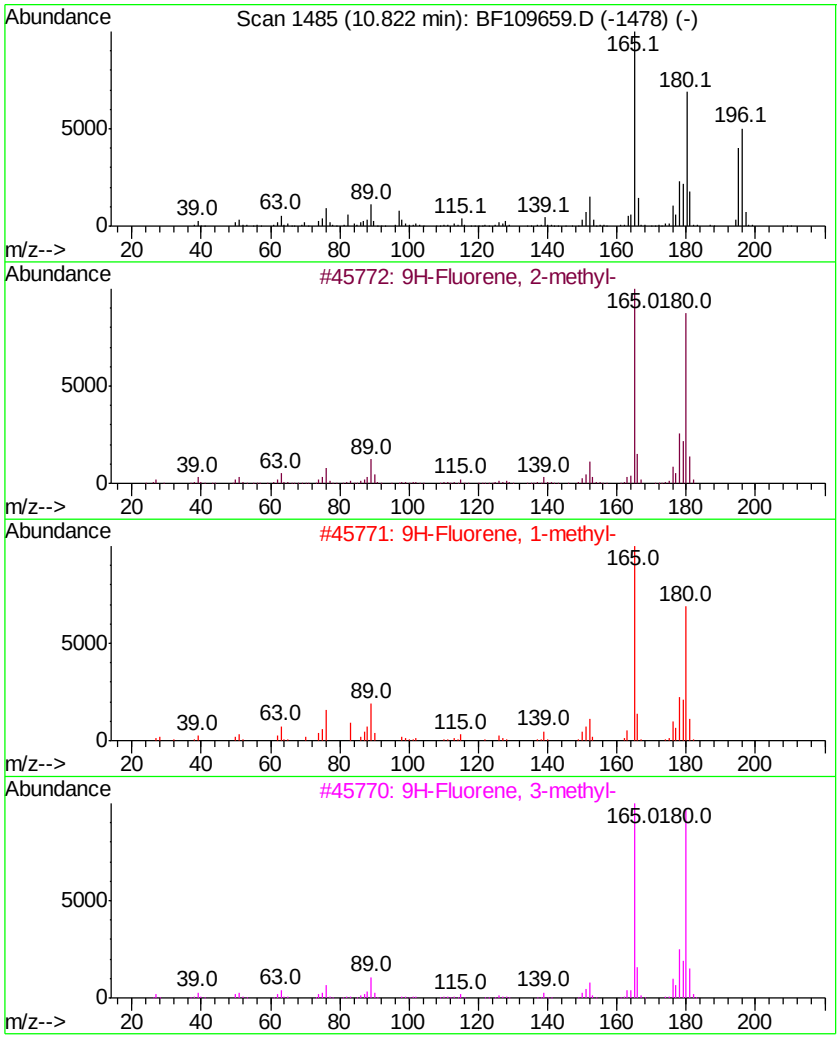
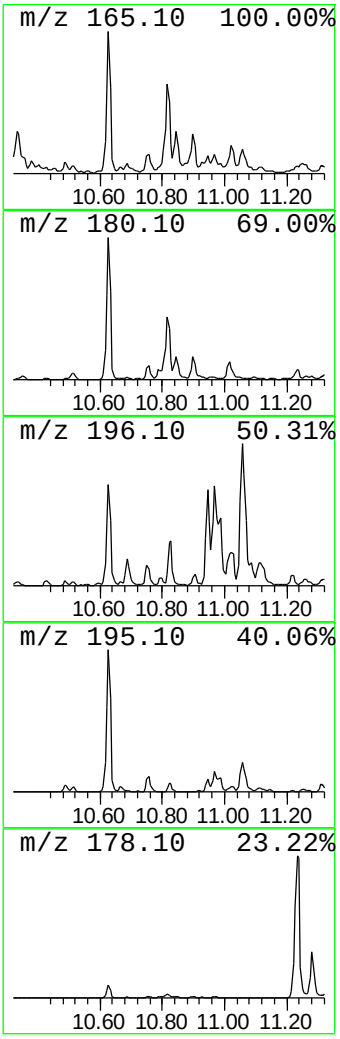
Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.82	25.33 ng	839889	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	76
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	72





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ClientSampleId : 331-SAND-SOIL

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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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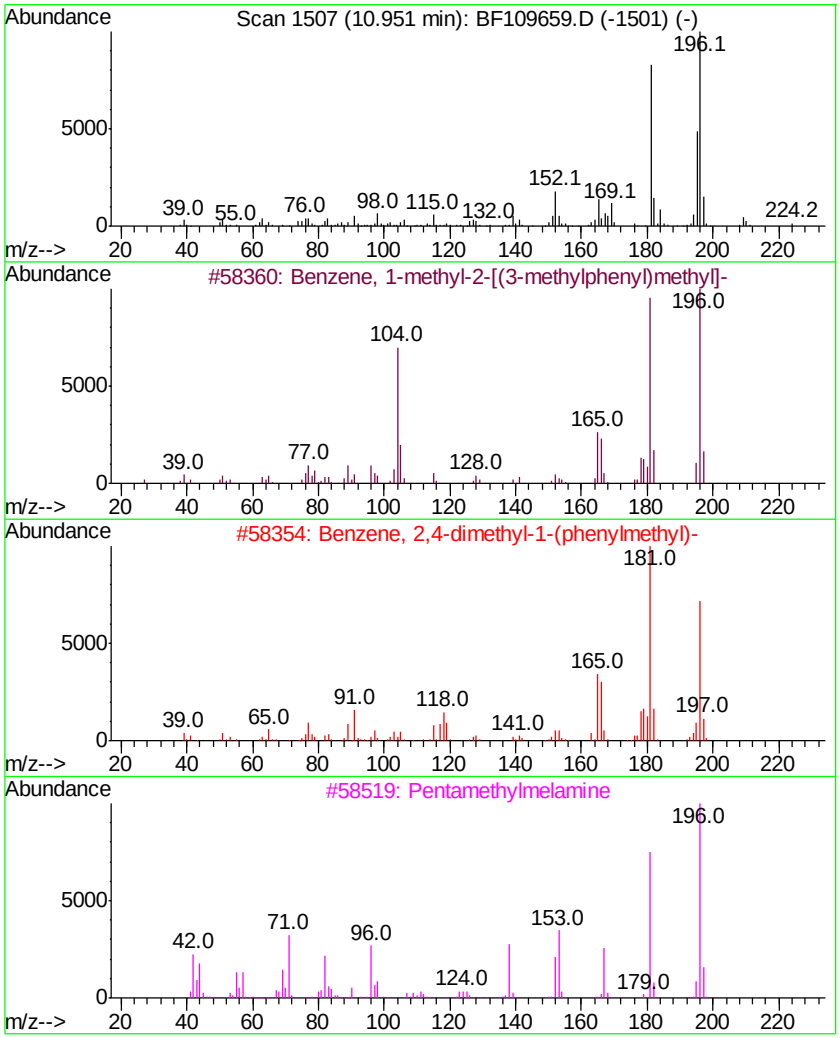
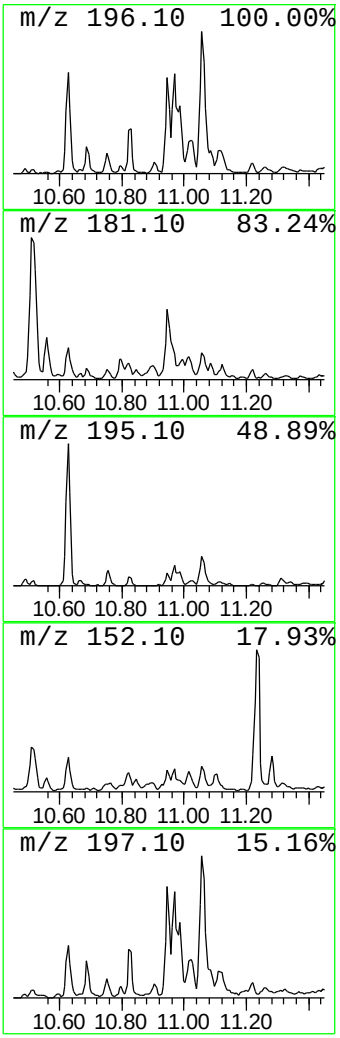
Peak Number 8 Benzene, 1-methyl-2-[(3-met... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	20.44 ng	677790	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-[(3-methylph...	196	C15H16	021895-13-6	64
2	Benzene, 2,4-dimethyl-1-(phenylm...	196	C15H16	028122-28-3	64
3	Pentamethylmelamine	196	C8H16N6	035832-09-8	64
4	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	58
5	p-Toluenesulfonamide, N-(xanthen...	351	C20H17NO3S	006326-06-3	50





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

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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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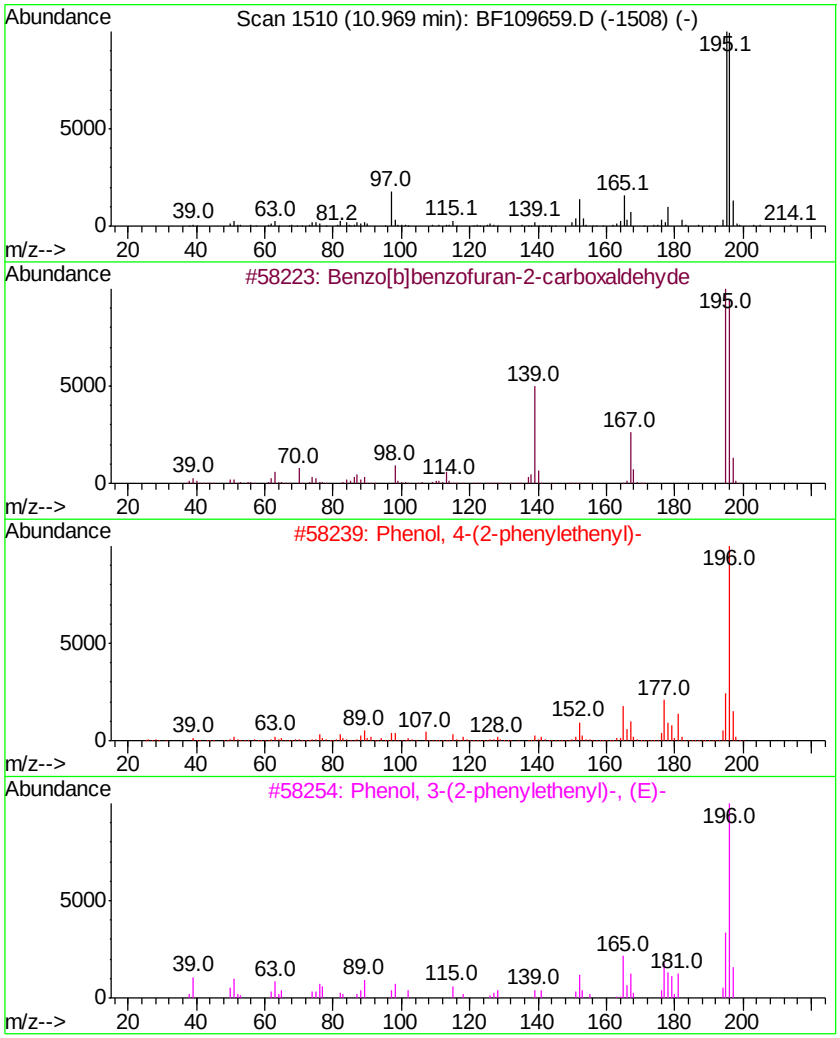
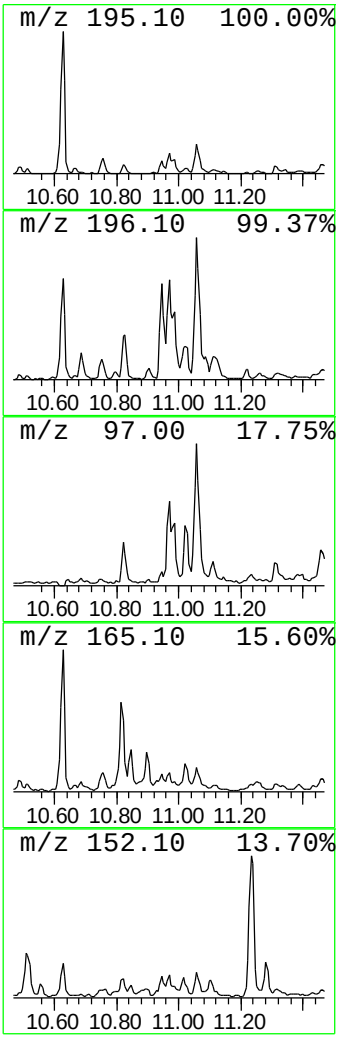
Peak Number 9 Benzo[b]benzofuran-2-carbox... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	16.95 ng	562017	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	64
2	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	53
3	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	50
4	Benzenamine, 4-[(E)-2-(4-pyridin...	196	C13H12N2	1000351-61-4	47
5	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	46





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ALS Vial : 10 Sample Multiplier: 1

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

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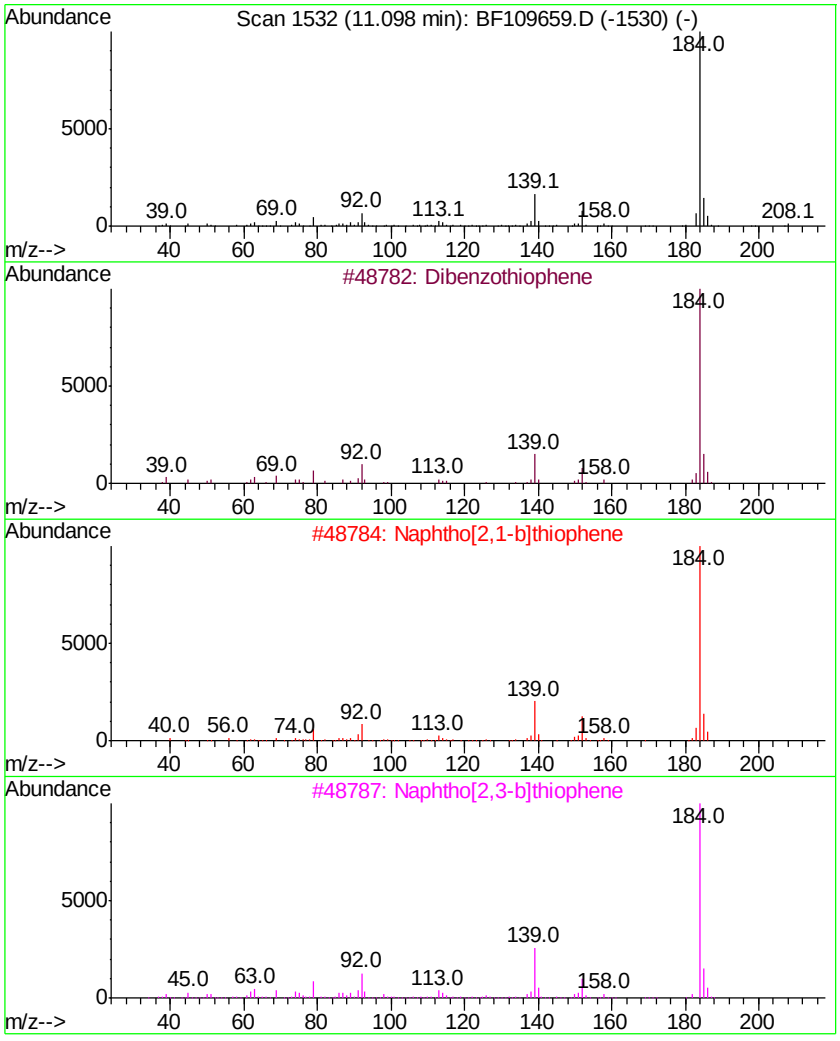
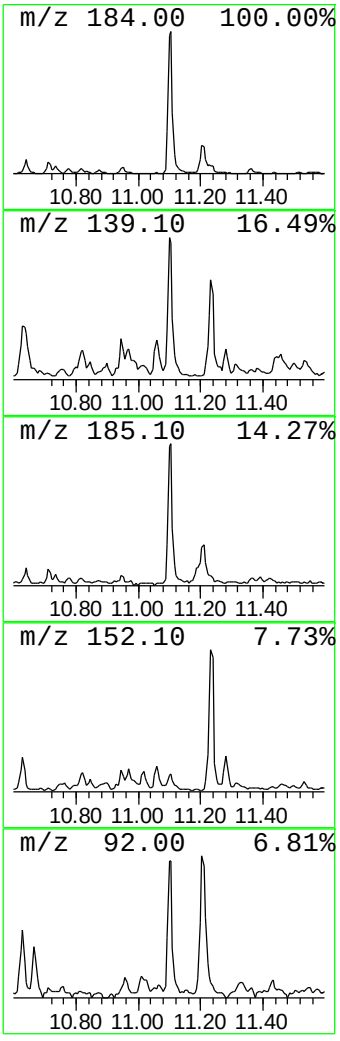
Peak Number 10 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	16.78 ng	556619	Phenanthrene-d10	11.20

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	94
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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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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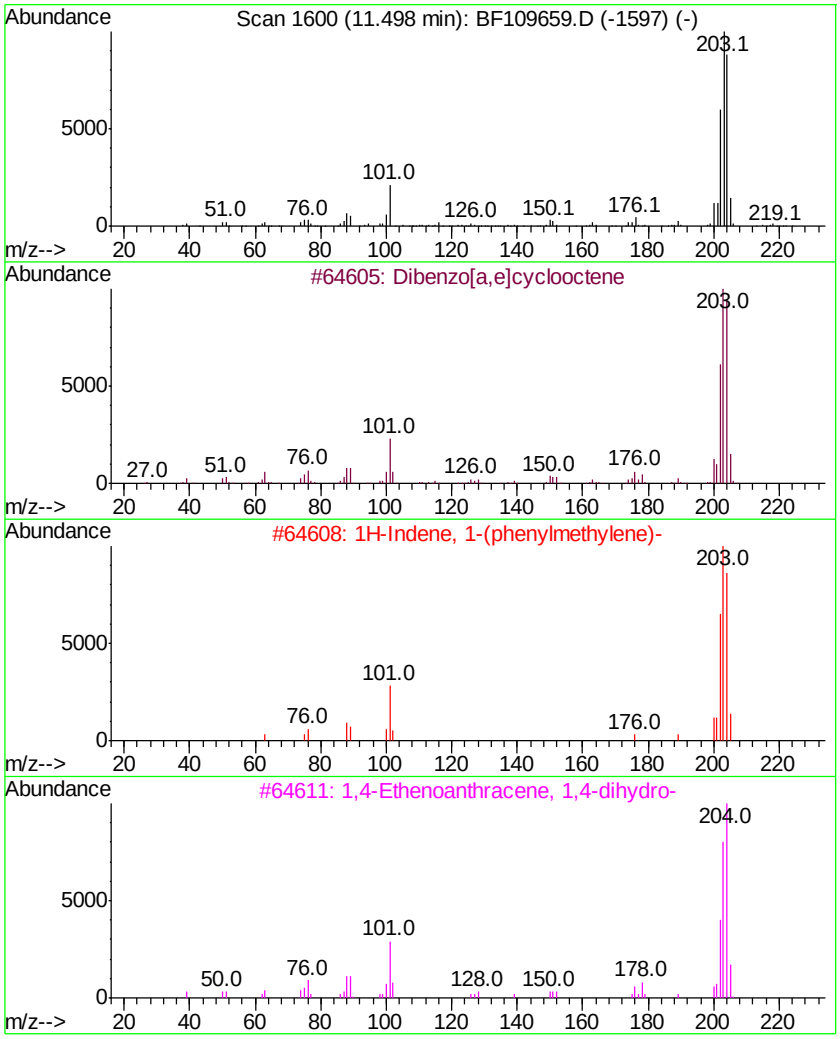
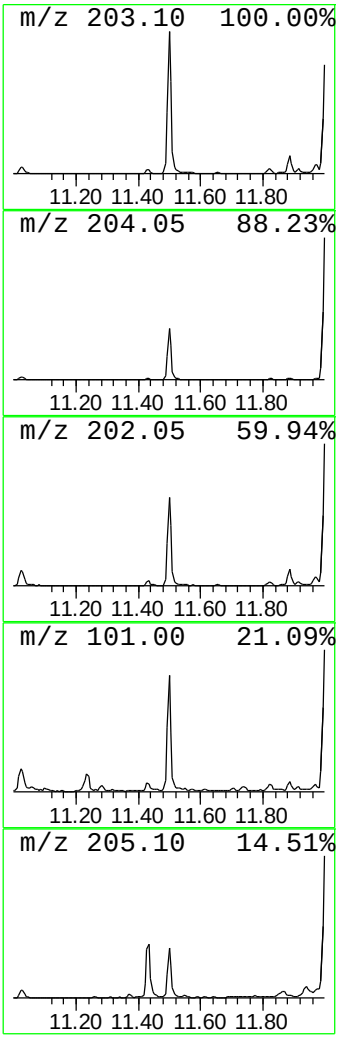
Peak Number 11 Dibenzo[a,e]cyclooctene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.50	21.22 ng	703816	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	90
2	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	90
3	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	81
4	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	81
5	Pyrene, 4,5-dihydro-	204	C16H12	006628-98-4	68





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Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

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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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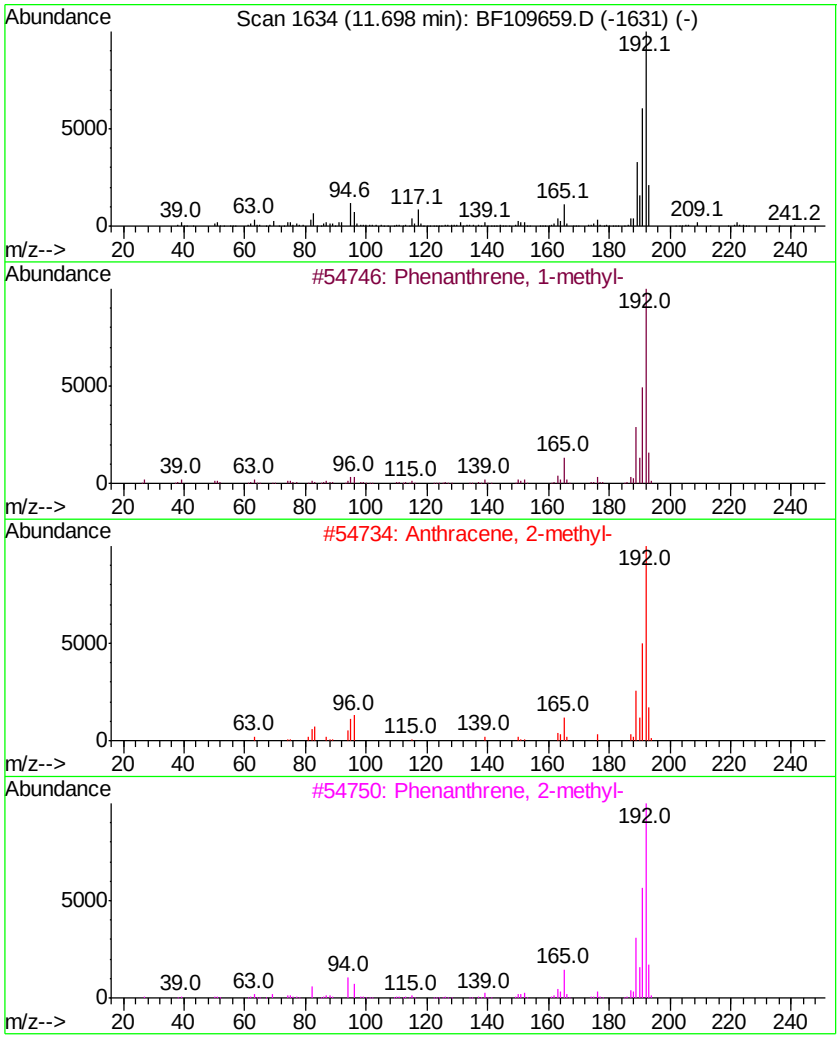
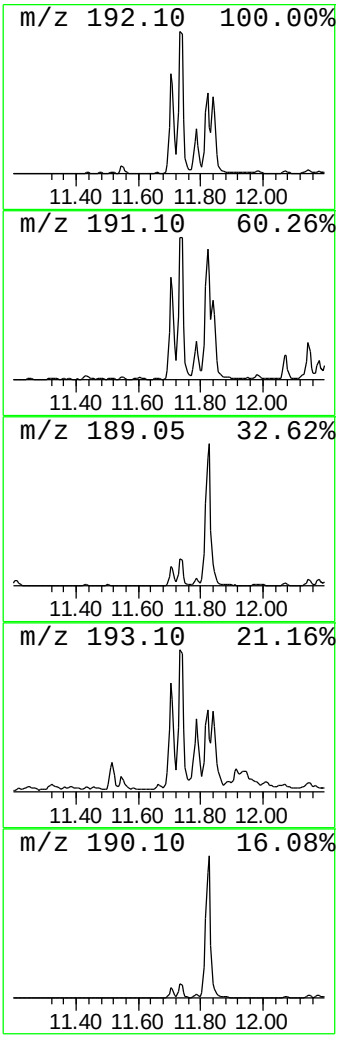
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	35.22 ng	1168020	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





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Misc :
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Instrument : BNA_F
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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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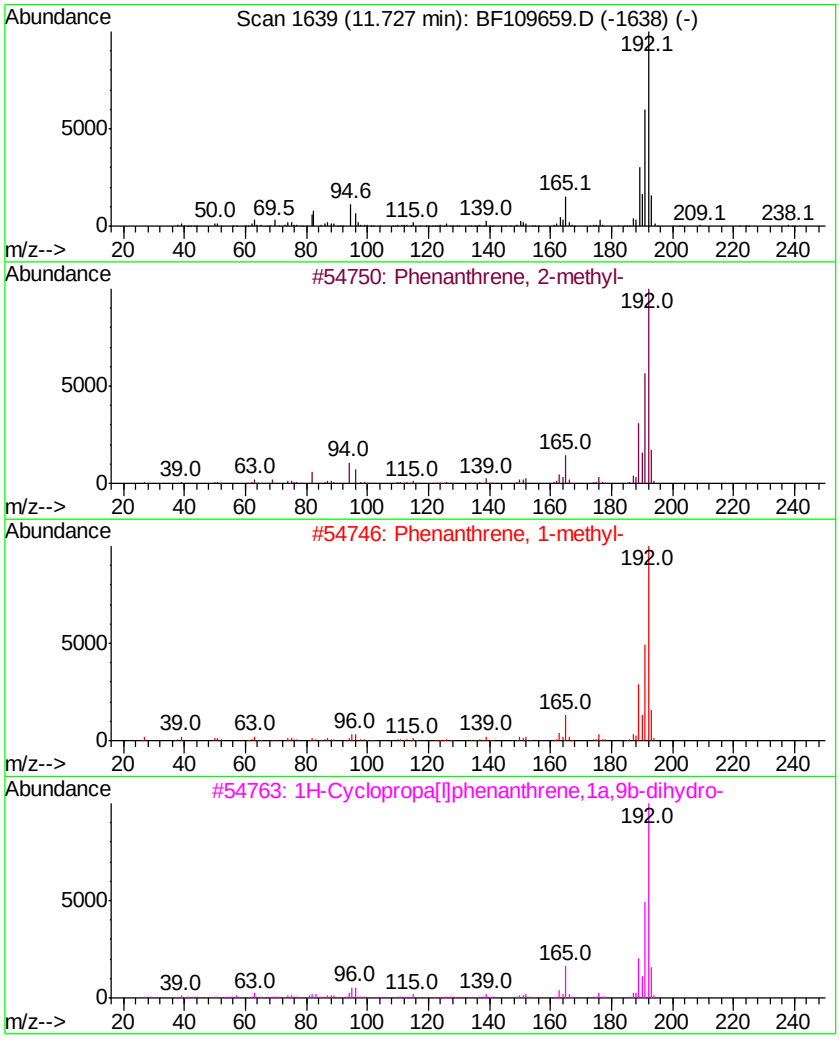
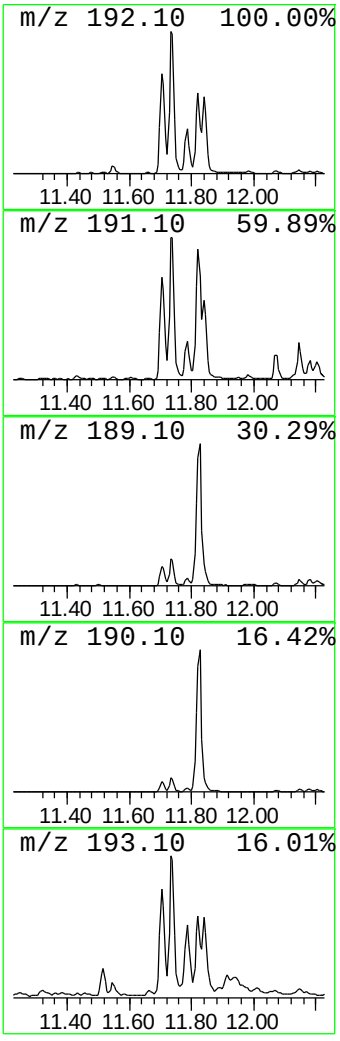
Peak Number 13 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.73	47.52 ng	1575860	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





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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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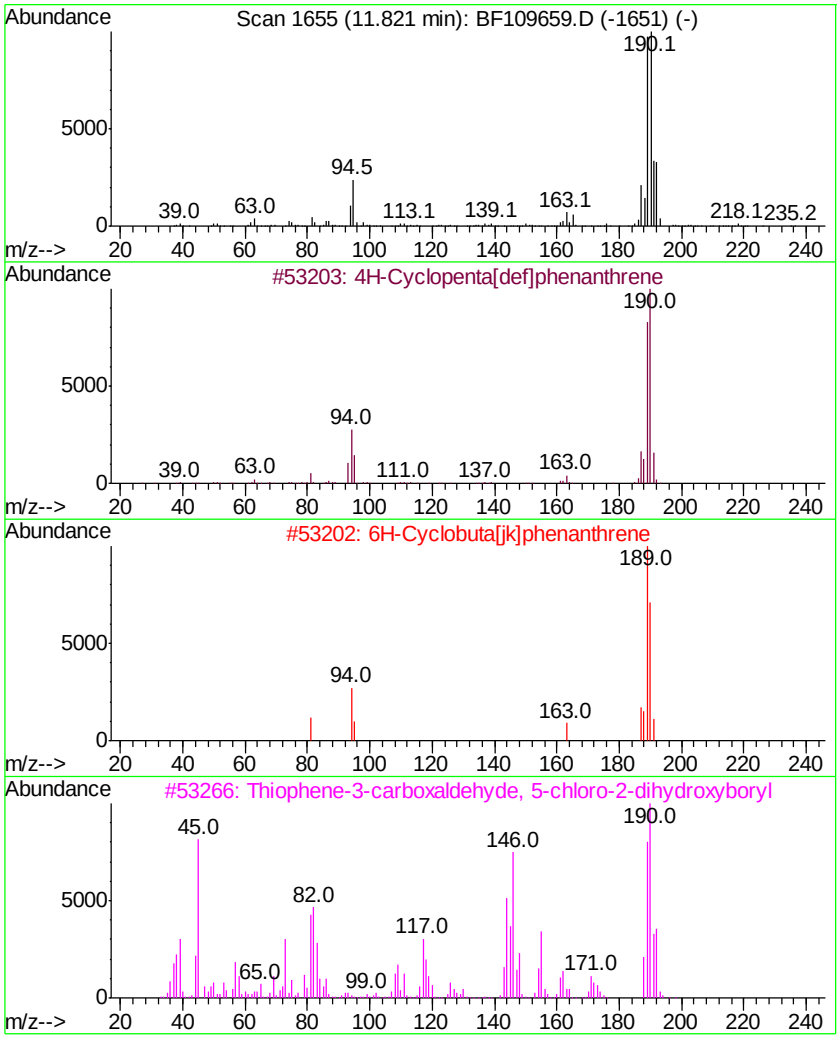
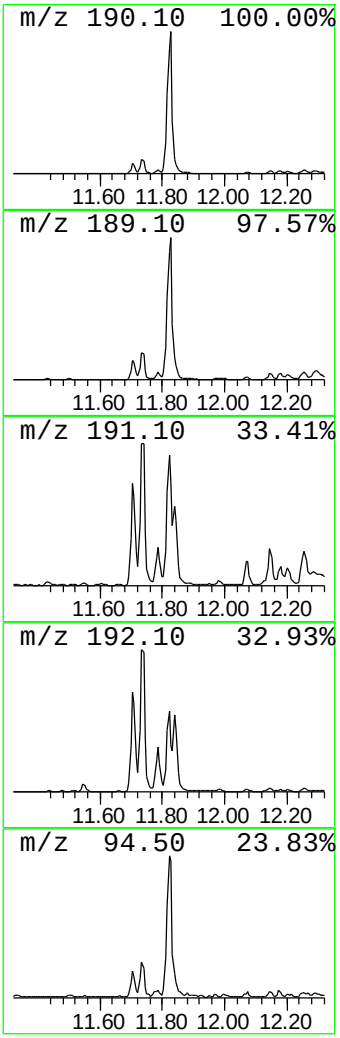
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	127.29 ng	4221330	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	49





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TIC Library : C:\DATABASE\NIST11.L
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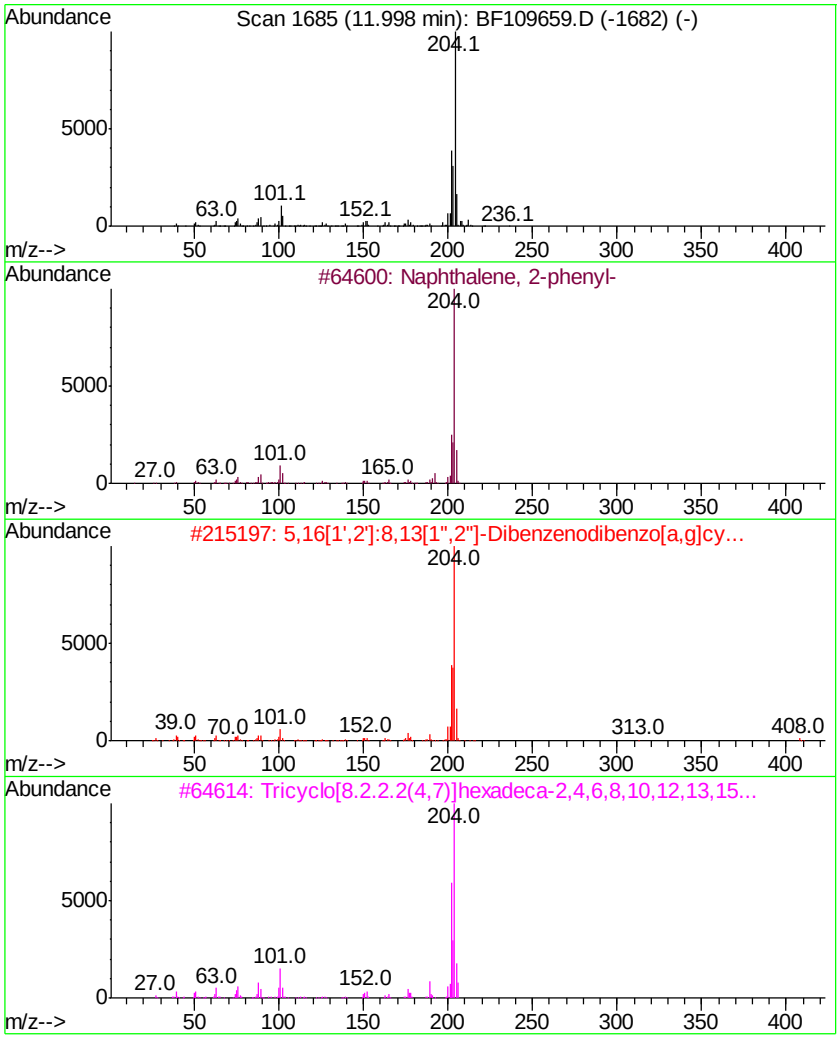
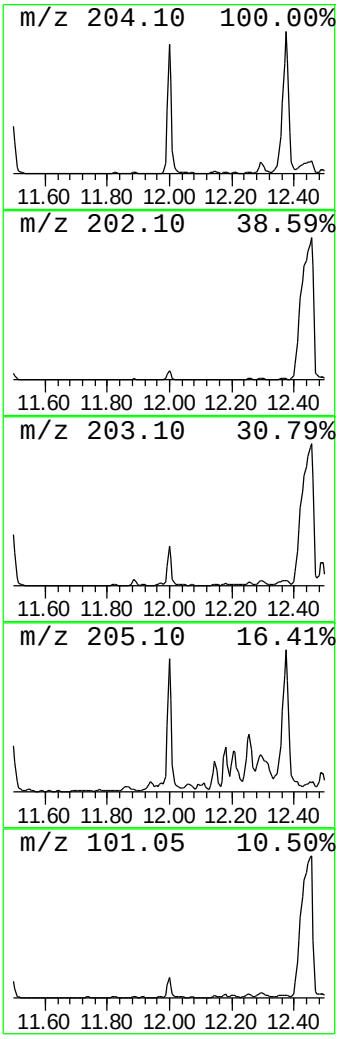
Peak Number 16 Naphthalene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	39.35 ng	1305130	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
5	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	49





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TIC Integration Parameters: LSCINT.P

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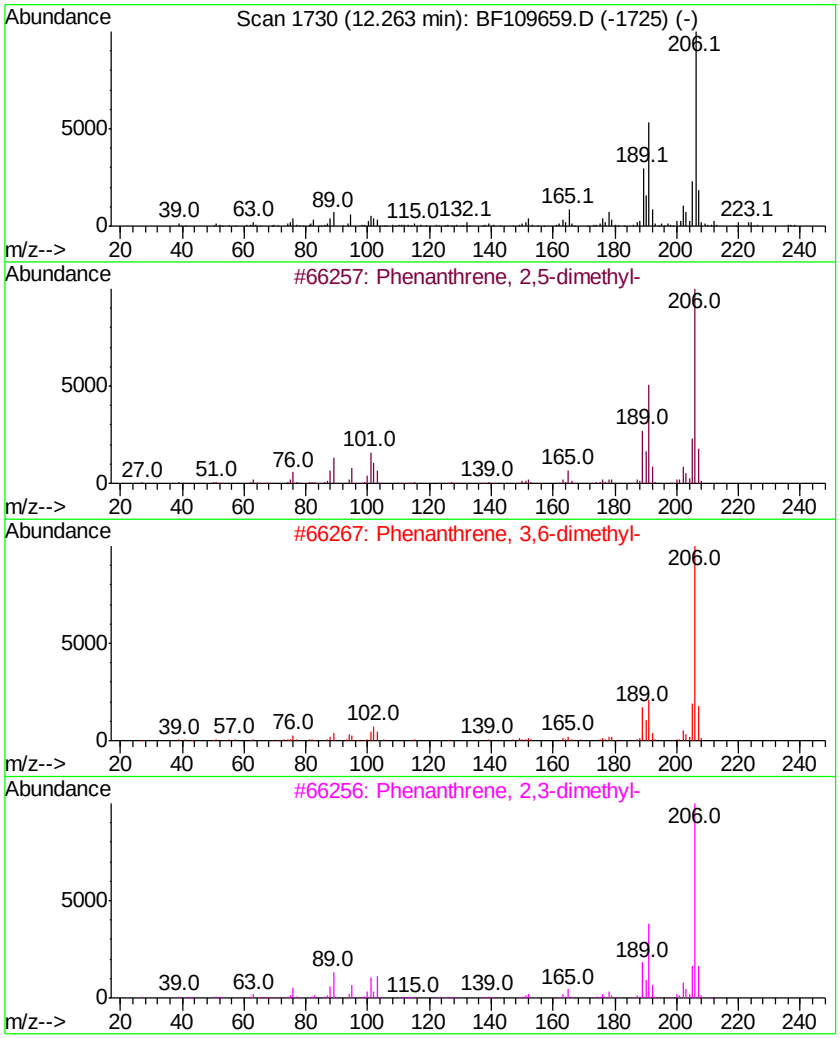
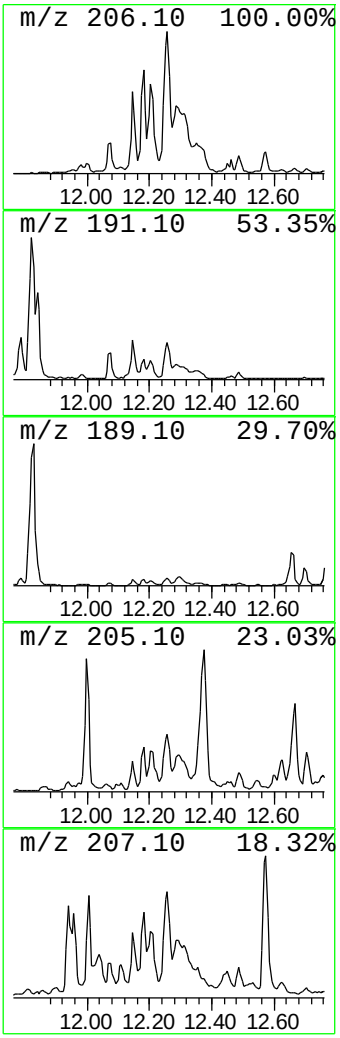
Peak Number 17 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	18.84 ng	624954	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86





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Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.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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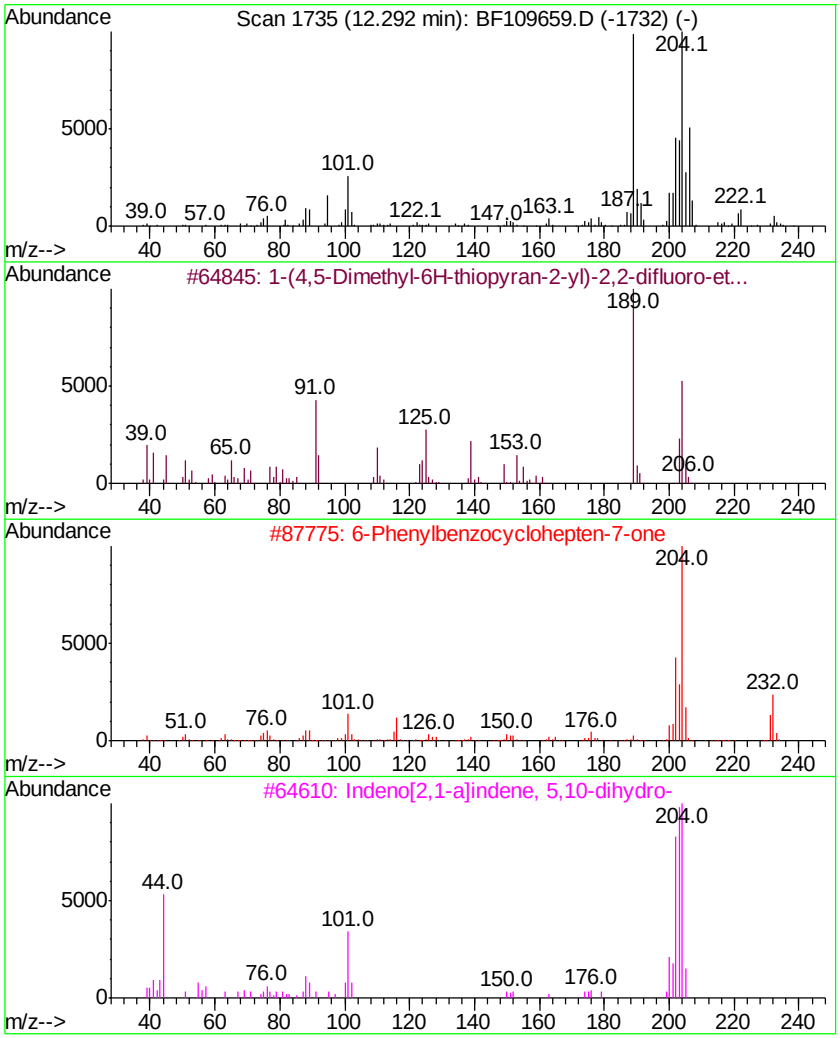
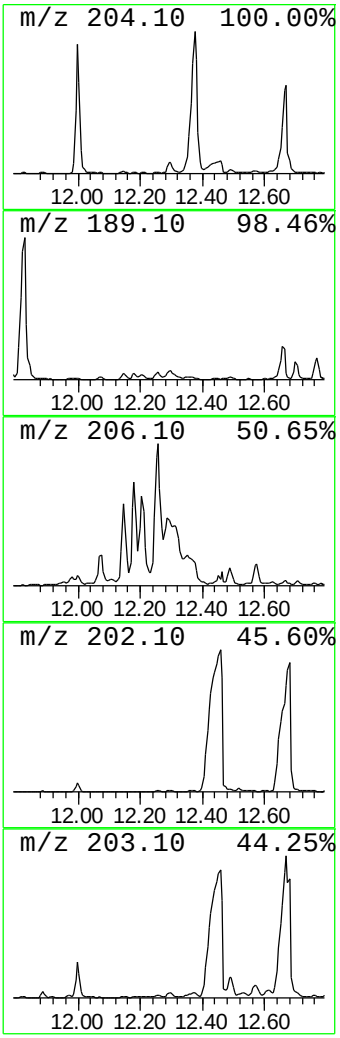
Peak Number 18 1-(4,5-Dimethyl-6H-thiopyra... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	14.85 ng	492370	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(4,5-Dimethyl-6H-thiopyran-2-y...	204	C9H10F2OS	1000318-25-0	52
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	45
3	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	44
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
5	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.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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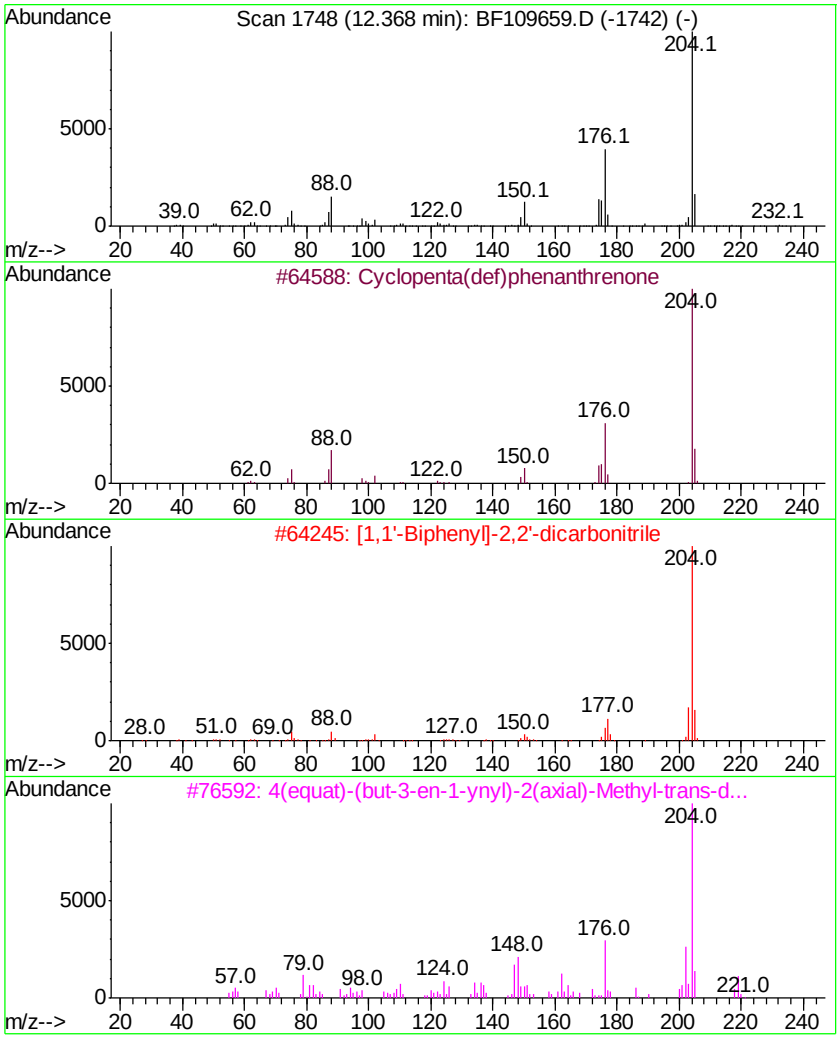
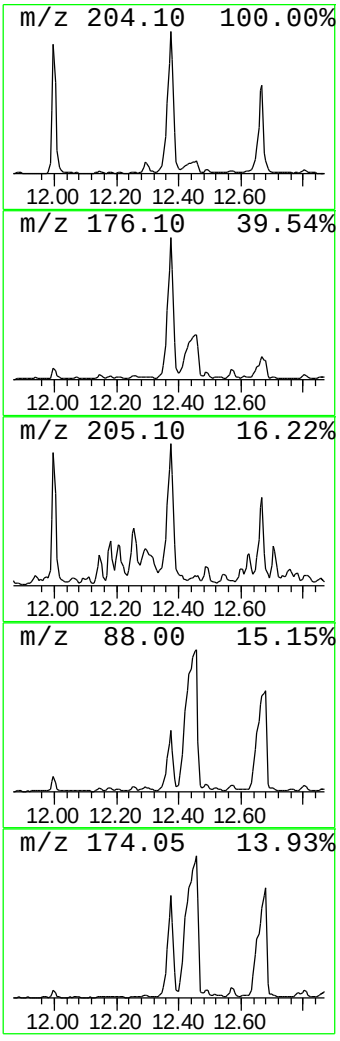
Peak Number 19 Cyclopenta(def)phenanthrenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	57.09 ng	1893190	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	58
3	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	45
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	40





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.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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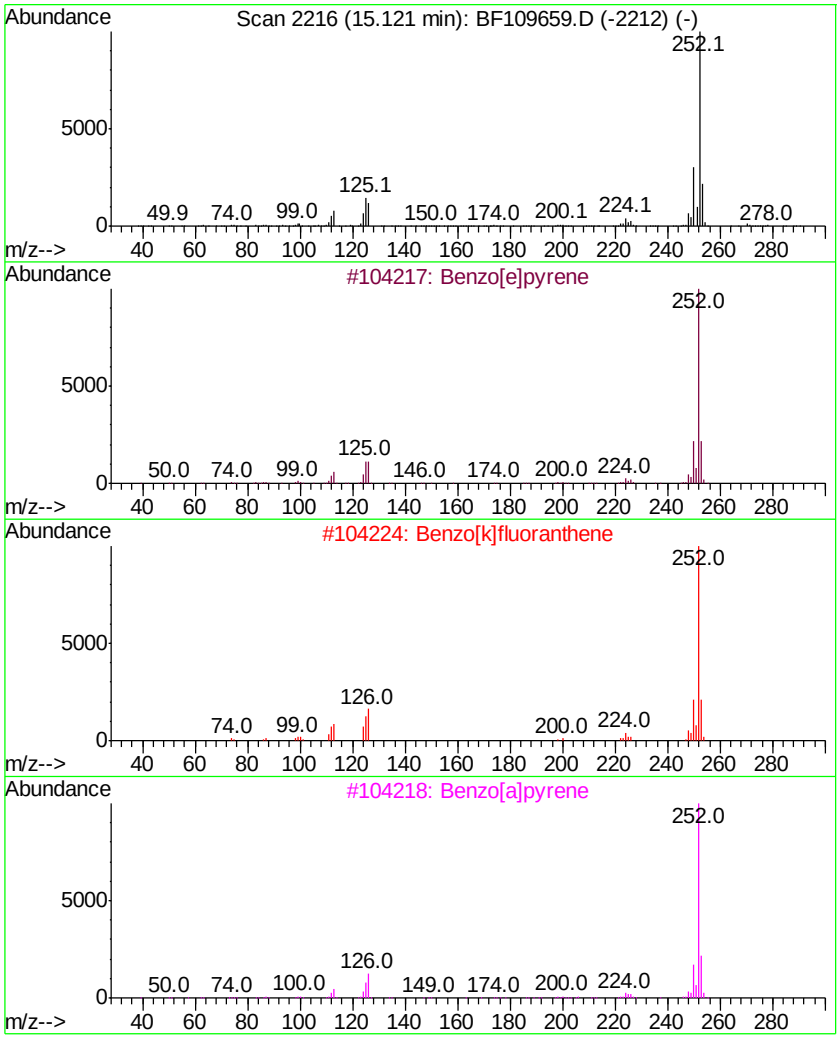
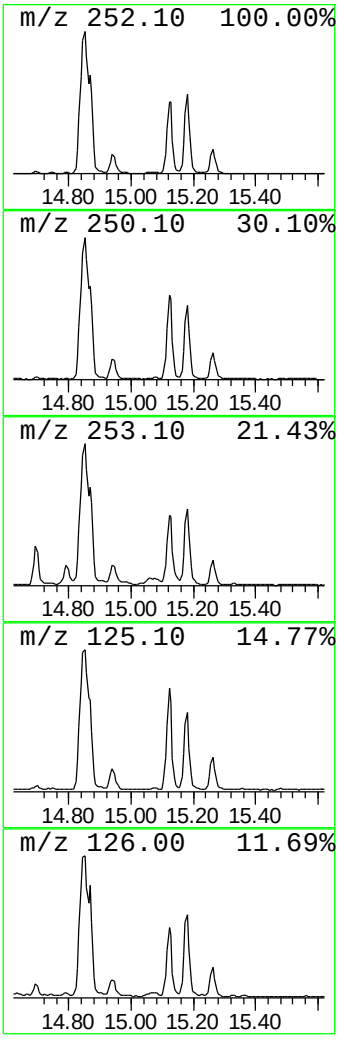
Peak Number 20 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	34.78 ng	1027000	Perylene-d12	15.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Perylene	252	C20H12	000198-55-0	96
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF100818\
Data File : BF109659.D
Acq On : 8 Oct 2018 20:33
Operator : JU/SJ
Sample : J5305-02 2X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 331-SAND-SOIL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.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
unknown6.47	6.47	29.1	ng	811086	1	6.70	557511	20.0
1-Isopropenylnaph...	10.33	31.2	ng	1227000	3	9.72	785913	20.0
Dibenzofuran, 4-m...	10.43	19.6	ng	769954	3	9.72	785913	20.0
(4-Acetylphenyl)p...	10.63	89.9	ng	2980720	4	11.20	663275	20.0
9,9-Dimethyl-9-si...	10.76	14.1	ng	465978	4	11.20	663275	20.0
9H-Fluorene, 2-me...	10.82	25.3	ng	839889	4	11.20	663275	20.0
Benzene, 1-methyl...	10.95	20.4	ng	677790	4	11.20	663275	20.0
Benzo[b]benzofura...	10.97	16.9	ng	562017	4	11.20	663275	20.0
Dibenzothiophene	11.10	16.8	ng	556619	4	11.20	663275	20.0
Dibenzo[a,e]cyclo...	11.50	21.2	ng	703816	4	11.20	663275	20.0
Phenanthrene, 1-m...	11.70	35.2	ng	1168020	4	11.20	663275	20.0
Phenanthrene, 2-m...	11.73	47.5	ng	1575860	4	11.20	663275	20.0
4H-Cyclopenta[def...	11.82	127.3	ng	4221330	4	11.20	663275	20.0
Naphthalene, 2-ph...	12.00	39.4	ng	1305130	4	11.20	663275	20.0
Phenanthrene, 2,5...	12.26	18.8	ng	624954	4	11.20	663275	20.0
1-(4,5-Dimethyl-6...	12.29	14.9	ng	492370	4	11.20	663275	20.0
Cyclopenta(def)ph...	12.37	57.1	ng	1893190	4	11.20	663275	20.0
Benzo[e]pyrene	15.12	34.8	ng	1027000	6	15.23	590502	20.0