LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

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:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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	2.975	148	151	164	rBV2	30560	100223	2.46%	0.230%
2	3.540	238	247	257	rBV	249427	413240	10.14%	0.946%
3	4.828	462	466	478	rBV	242110	384649	9.44%	0.881%
4	5.257	534	539	559	rBV	3709864	3862602	94.81%	8.845%
5	6.304	713	717	733	rBV	3254833	4074078	100.00%	9.329%
6	6.422	733	737	740	rBV	4214910	3861253	94.78%	8.842%
7	6.640	771	774	781	rBV	922499	881237	21.63%	2.018%
8	6.798	797	801	804	rBV	3070539	2709917	66.52%	6.205%
9	7.098	849	852	860	rVB	40098	56081	1.38%	0.128%
10	7.216	867	872	875	rBV	2562673	2400516	58.92%	5.497%
11	7.245	875	877	882	rVB3	40579	44010	1.08%	0.101%
12	7.340	889	893	902	rVB	38127	46200	1.13%	0.106%
13	7.698	951	954	961	rBV	70931	73221	1.80%	0.168%
14	7.928	988	993	996	rBV	1345647	1224318	30.05%	2.804%
15	8.639	1111	1114	1117	rBV	54390	42158	1.03%	0.097%
16	8.739	1127	1131	1139	rVB	46385	47299	1.16%	0.108%
17	8.863	1149	1152	1159	rBV2	49275	67274	1.65%	0.154%
18	9.004	1171	1176	1179	rBV	3623221	3308580	81.21%	7.576%
19	9.275	1217	1222	1228	rBV4	25237	47964	1.18%	0.110%
20	9.339	1229	1233	1235	rBV	42687	42359	1.04%	0.097%
21	9.404	1240	1244	1247	rVB	664986	533000	13.08%	1.221%
22	9.539	1263	1267	1272	rVB	79285	73208	1.80%	0.168%
23	9.681	1284	1291	1294	rBV	1430376	1276336	31.33%	2.923%
24	9.710	1294	1296	1300	rVB	100915	85841	2.11%	0.197%
25	9.881	1322	1325	1327	rBV	56101	60045	1.47%	0.137%
26	10.086	1354	1360	1361	rBV6	32637	43976	1.08%	0.101%
27	10.116	1361	1365	1367	rVB	65820	61669	1.51%	0.141%
28	10.228	1381	1384	1389	rVB	104648	107417	2.64%	0.246%
29	10.333	1400	1402	1408	rVB4	42801	57090	1.40%	0.131%
30	10.469	1419	1425	1429	rBV	2155494	2087485	51.24%	4.780%
31	10.586	1442	1445	1451	rVB3	116098	138548	3.40%	0.317%
32	10.775	1473	1477	1479	rBV3	35378	43414	1.07%	0.099%
33	11.057	1523	1525	1532	rVB2	83859	87154	2.14%	0.200%
34	11.163	1539	1543	1545	rBV	1380678	1201742	29.50%	2.752%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

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:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.186	1545	1547	1550	rVV	1121675	842862	20.69%	1.930%
36	11.239	1550	1556	1559	rVB	221452	242527	5.95%	0.555%
37	11.275	1559	1562	1565	rBV3	38475	44832	1.10%	0.103%
38	11.398	1580	1583	1590	rVB	88876	95054	2.33%	0.218%
39	11.457	1590	1593	1597	rBV3	58227	49362	1.21%	0.113%
40	11.663	1625	1628	1630	rBV	146251	122375	3.00%	0.280%
41	11.692	1630	1633	1637	rVV	201710	170357	4.18%	0.390%
42	11.739	1638	1641	1643	rVV2	79315	80182	1.97%	0.184%
43	11.775	1643	1647	1649	rVV	259926	269698	6.62%	0.618%
44	11.798	1649	1651	1656	rVB	103287	90745	2.23%	0.208%
45	11.957	1675	1678	1681	rBV	101497	87686	2.15%	0.201%
46	11.992	1681	1684	1688	rVB	104059	91826	2.25%	0.210%
47	12.210	1718	1721	1723	rBV	102767	112543	2.76%	0.258%
48	12.304	1734	1737	1741	rVB3	58002	66855	1.64%	0.153%
49	12.374	1745	1749	1753	rBV	1539476	1295412	31.80%	2.966%
50	12.522	1771	1774	1777	rVB2	41004	45300	1.11%	0.104%
51	12.604	1782	1788	1791	rVV	1096507	1144374	28.09%	2.621%
52	12.722	1805	1808	1809	rBV2	73473	69223	1.70%	0.159%
53	12.751	1809	1813	1816	rVB	2294581	2292518	56.27%	5.250%
54	12.822	1821	1825	1828	rBV2	84442	126624	3.11%	0.290%
55	12.927	1841	1843	1846	rVB	223489	215296	5.28%	0.493%
56	12.998	1852	1855	1857	rVB	186949	156240	3.83%	0.358%
57	13.033	1857	1861	1863	rBV2	136183	134319	3.30%	0.308%
58	13.127	1874	1877	1879	rVB	56397	46750	1.15%	0.107%
59	13.157	1879	1882	1884	rBV	66631	61873	1.52%	0.142%
60	13.357	1914	1916	1923	rVB6	59649	78740	1.93%	0.180%
61	13.445	1928	1931	1935	rVB	71160	78390	1.92%	0.180%
62	13.551	1946	1949	1951	rBV	88369	81578	2.00%	0.187%
63	13.574	1951	1953	1955	rVB	86544	66425	1.63%	0.152%
64	13.598	1955	1957	1958	rBV	60615	42409	1.04%	0.097%
65	13.651	1962	1966	1969	rVB2	199874	220780	5.42%	0.506%
66	13.798	1986	1991	1994	rBV2	1083978	1525041	37.43%	3.492%
67	13.827	1994	1996	1999	rVB	546507	411616	10.10%	0.943%
68	13.904	2007	2009	2012	rVB	81270	56932	1.40%	0.130%
69	14.186	2055	2057	2059	rVB	125625	92058	2.26%	0.211%
70	14.274	2069	2072	2075	rBV2	108094	120529	2.96%	0.276%
71	14.810	2159	2163	2166	rBV	512021	752926	18.48%	1.724%

LSC Area Percent Report

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Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

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:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.874	2171	2174	2177	rVB	102425	96717	2.37%	0.221%
73	14.910	2177	2180	2184	rBV	98818	106470	2.61%	0.244%
74	15.086	2206	2210	2216	rVB	300377	350549	8.60%	0.803%
75	15.145	2216	2220	2225	rVB	463331	539966	13.25%	1.236%
76	15.204	2225	2230	2233	rBV	705517	874910	21.48%	2.003%
77	16.539	2451	2457	2464	rBV	207922	407691	10.01%	0.934%
78	16.945	2521	2526	2534	rVB	132903	267270	6.56%	0.612%

Sum of corrected areas: 43669934

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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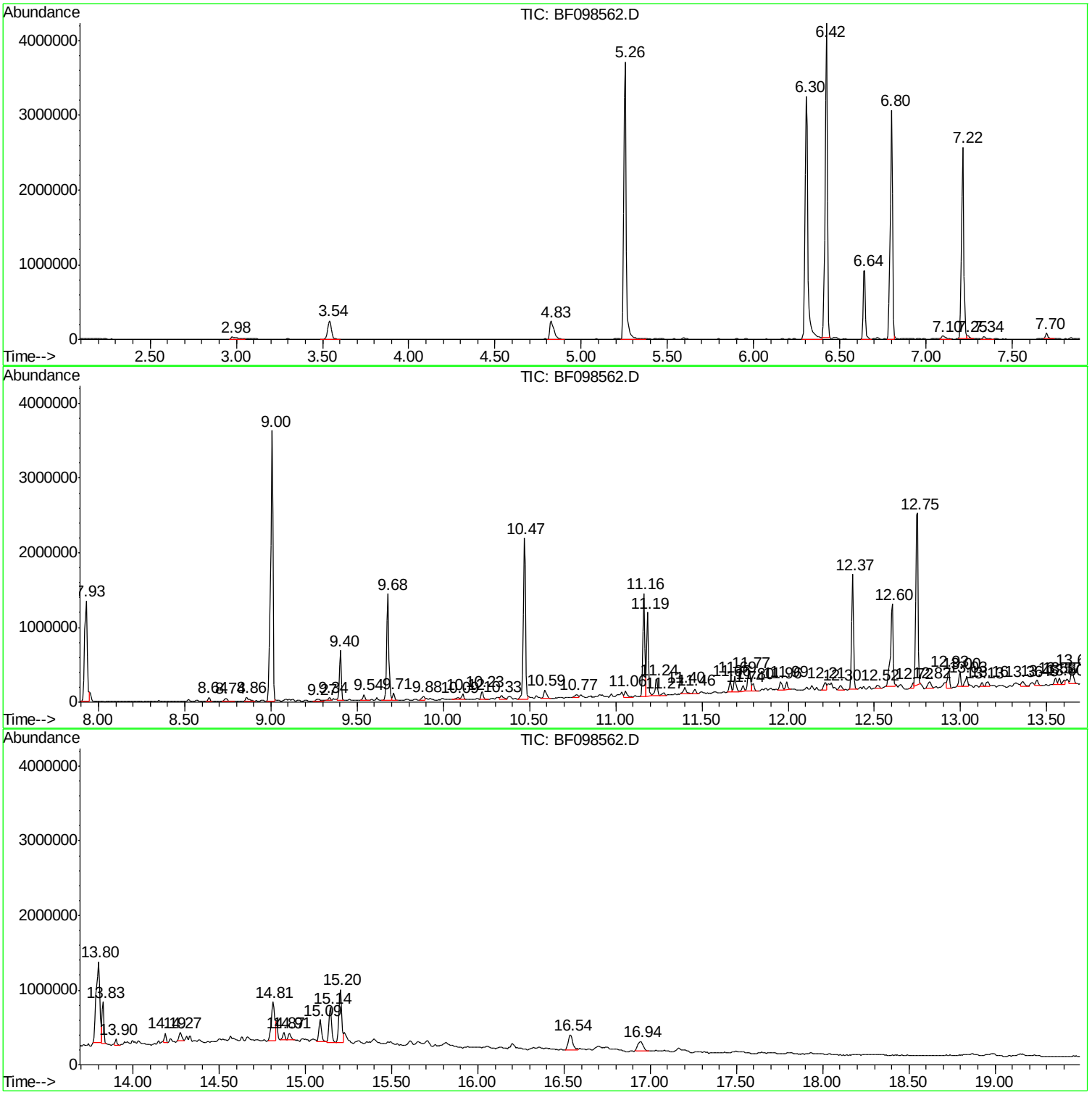
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

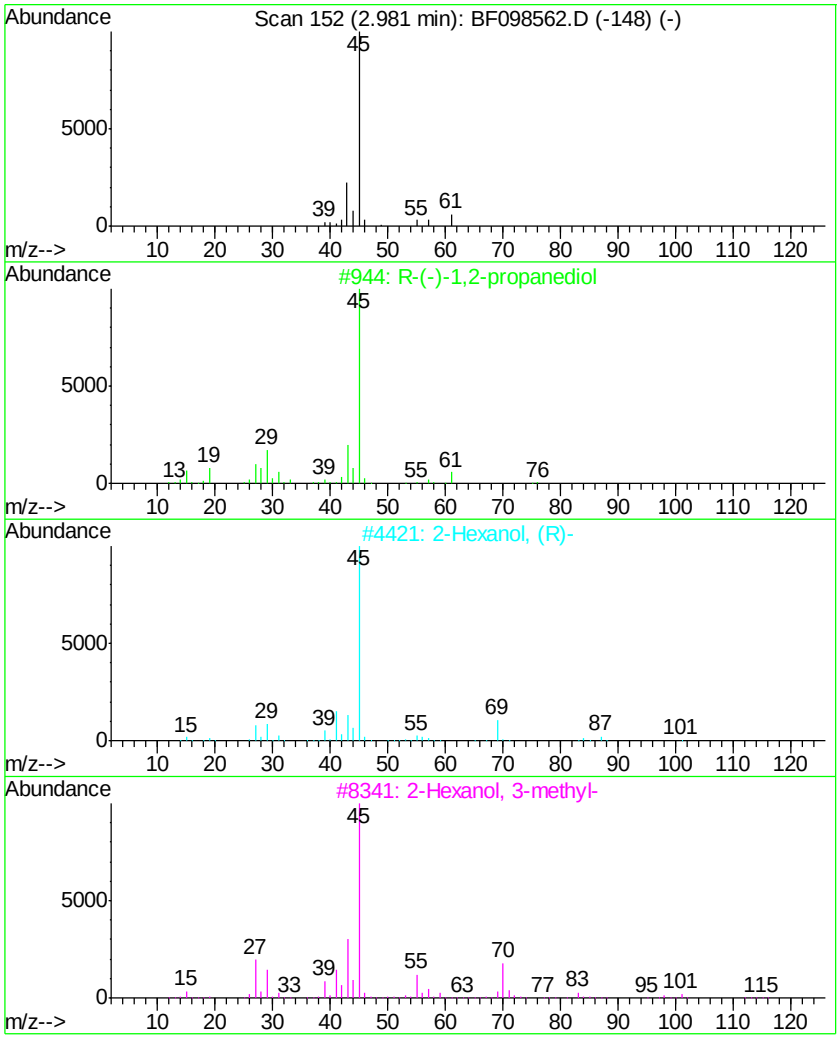
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

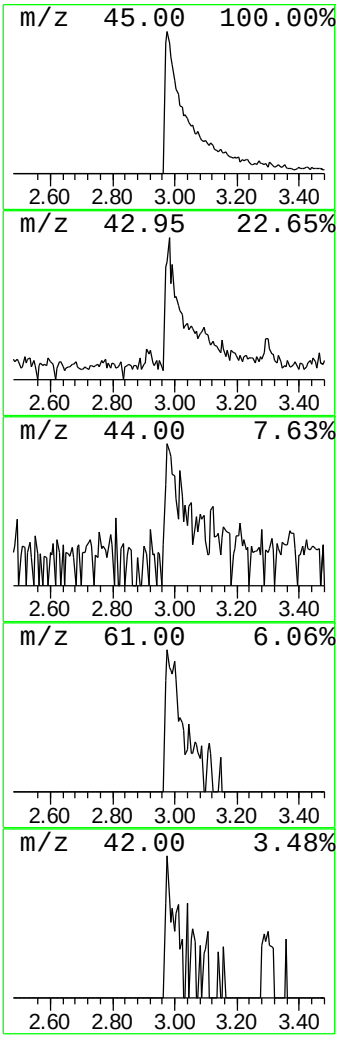
****

Peak Number 1 R-(-)-1,2-propanediol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	2.27 ng	100223	1,4-Dichlorobenzene-d4	6.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	64
2	2-Hexanol, (R)-	102	C6H14O	026549-24-6	9
3	2-Hexanol, 3-methyl-	116	C7H16O	002313-65-7	9
4	Propylene Glycol	76	C3H8O2	000057-55-6	9
5	3-Ethyl-2-pentanol	116	C7H16O	000609-27-8	9





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Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

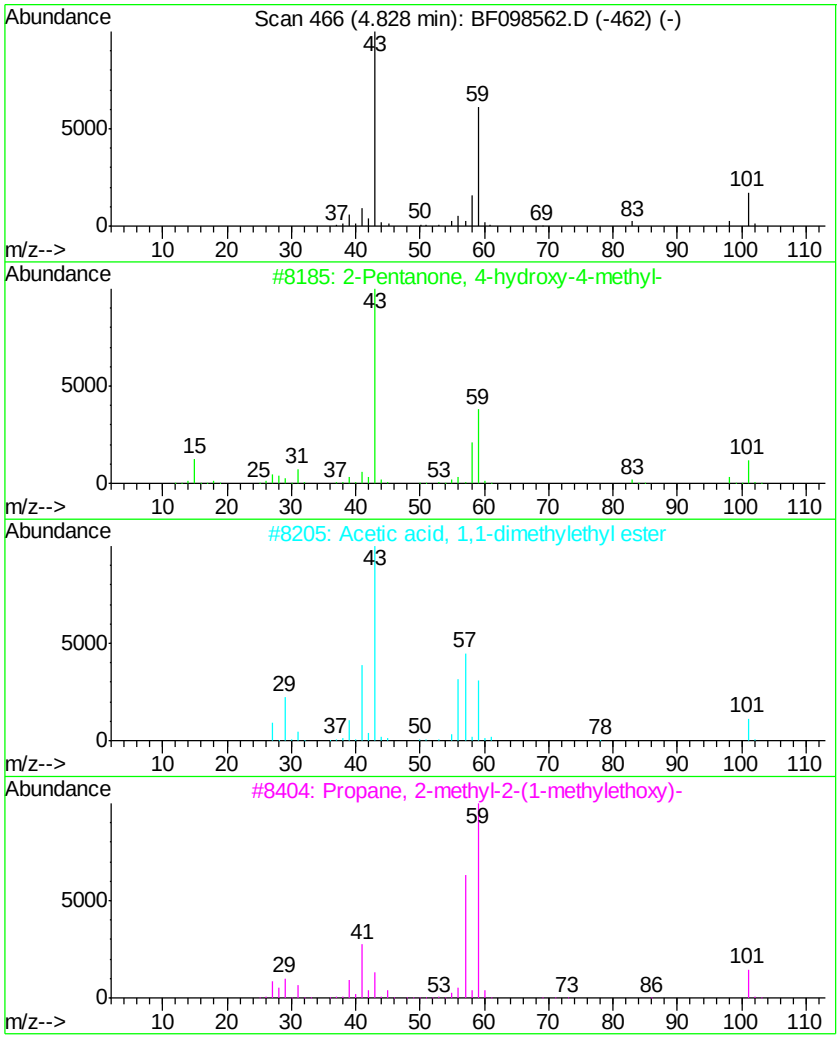
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

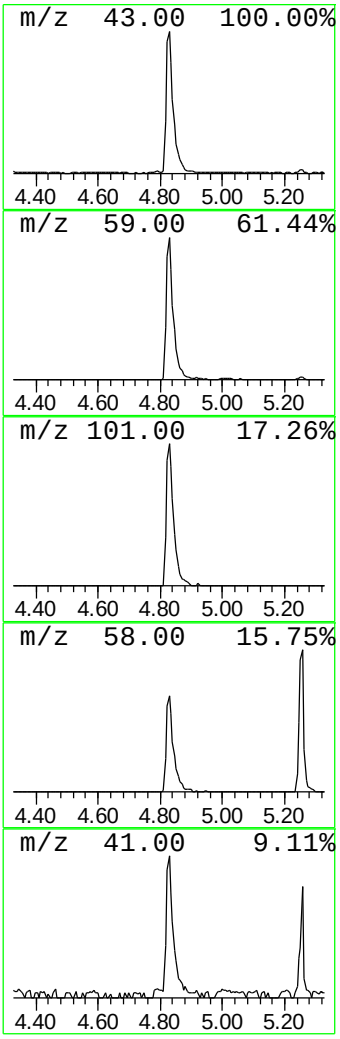
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.83	8.73 ng	384649	1,4-Dichlorobenzene-d4	6.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	38
3	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	1,8-Nonanediol, 8-methyl-	174	C10H22O2	054725-73-4	25





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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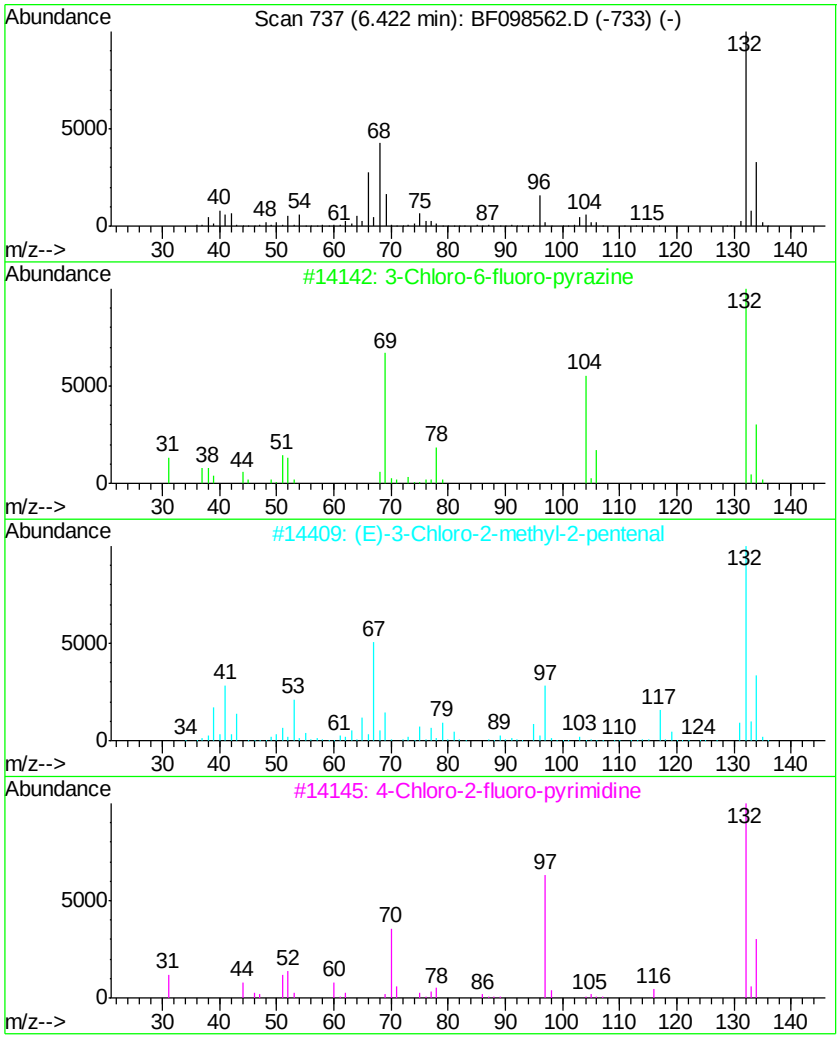
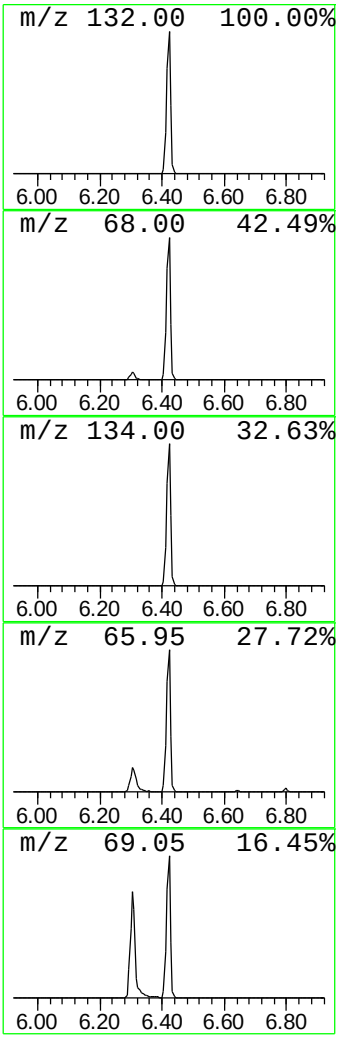
****

Peak Number 4 unknown6.42 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.42	87.63 ng	3861250	1,4-Dichlorobenzene-d4	6.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





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Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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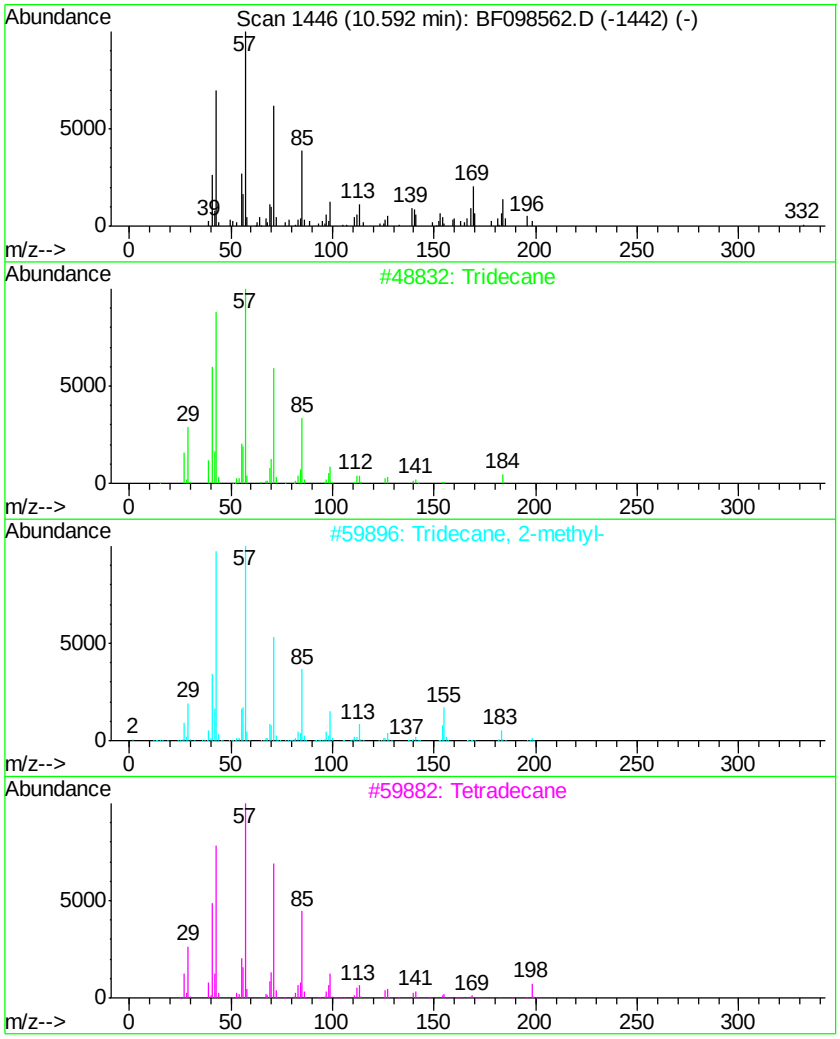
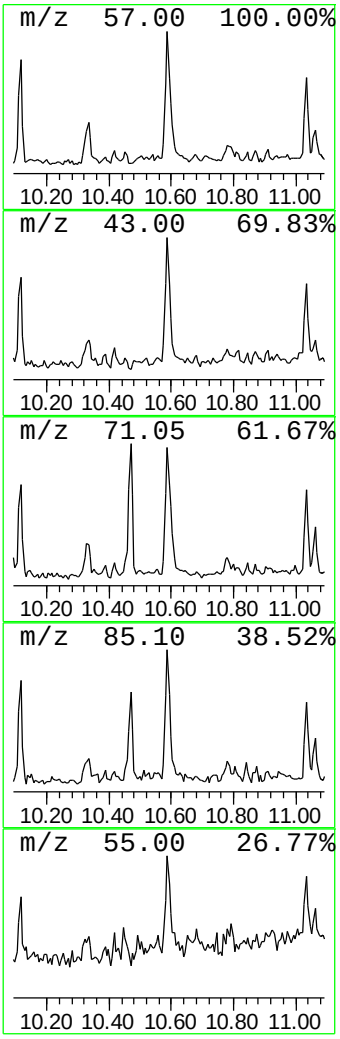
Peak Number 6 Tridecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.59	2.31 ng	138548	Phenanthrene-d10	11.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Tridecane, 2-methyl-	198	C14H30	001560-96-9	91
3	Tetradecane	198	C14H30	000629-59-4	90
4	Dodecane	170	C12H26	000112-40-3	81
5	Octacosane	394	C28H58	000630-02-4	80





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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
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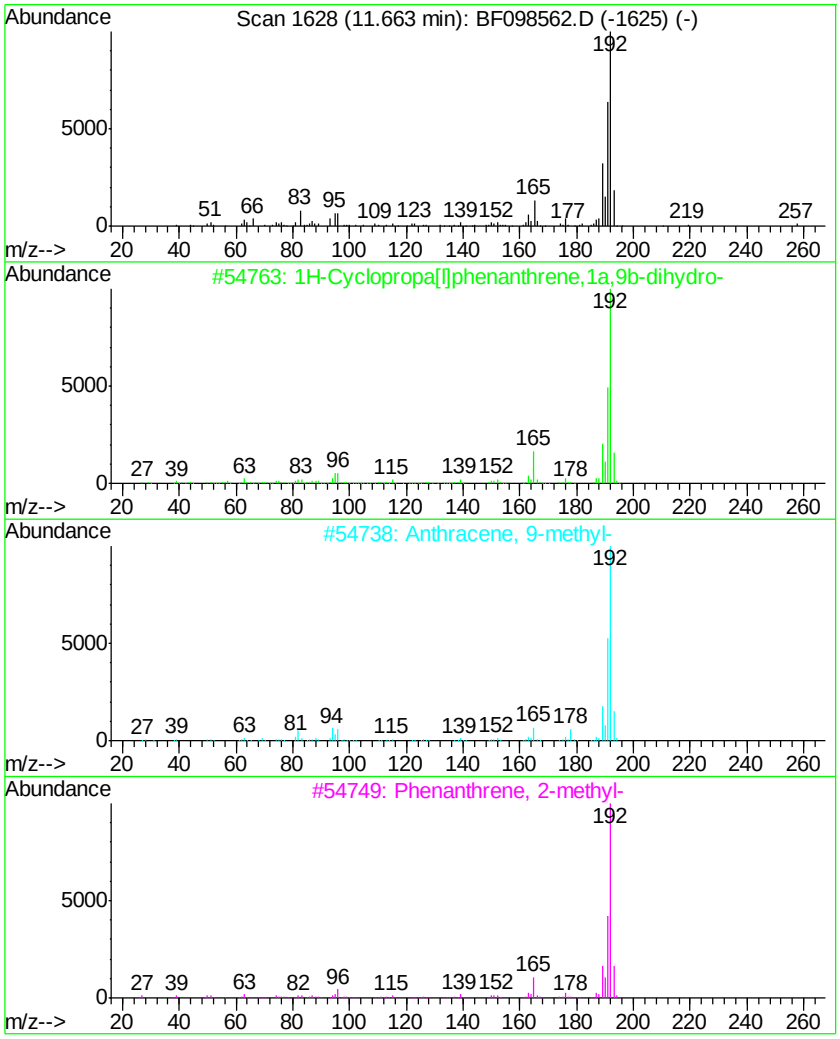
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

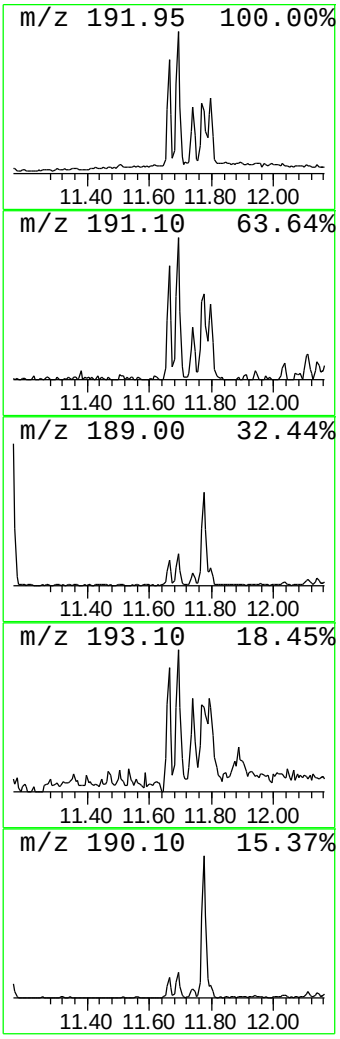
****

Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	2.04 ng	122375	Phenanthrene-d10	11.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Benzene, 1,1'-(2-cyclopropen-1-y...	192	C15H12	022825-21-4	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91





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Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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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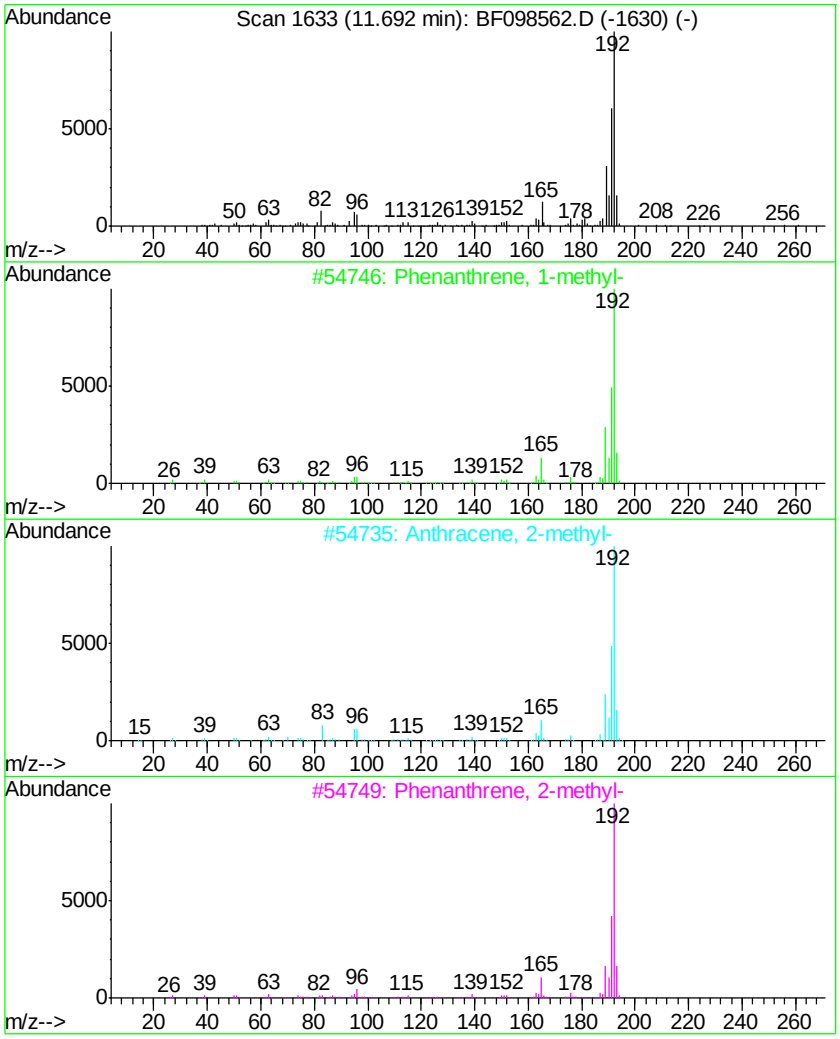
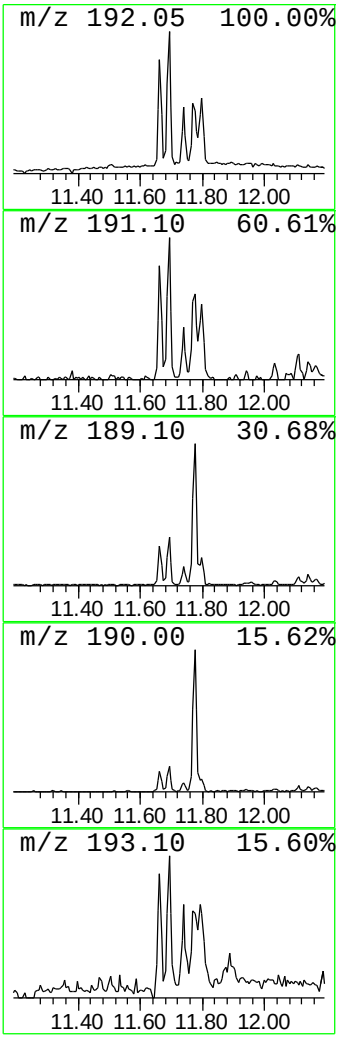
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	2.84 ng	170357	Phenanthrene-d10	11.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

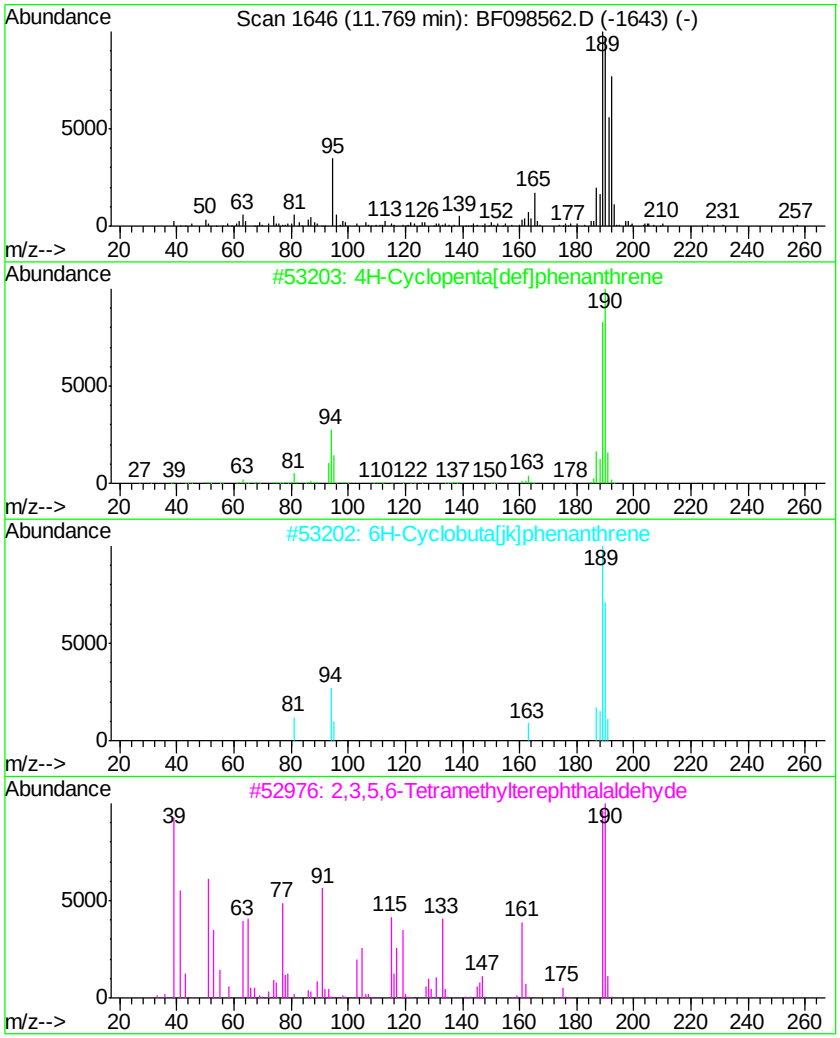
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

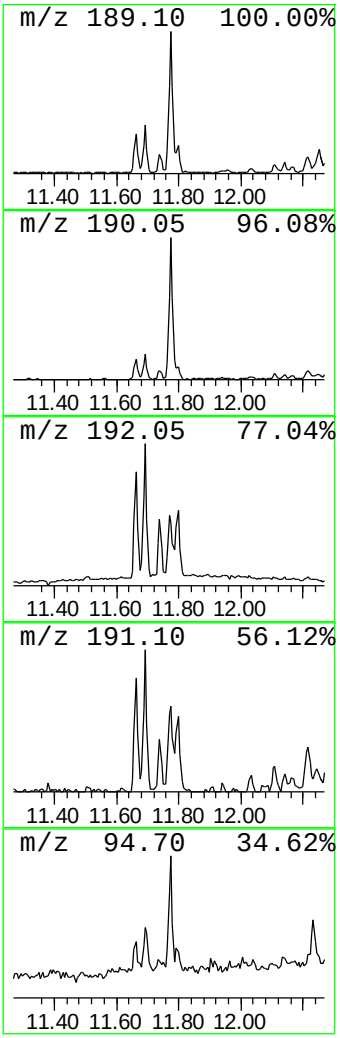
****

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	4.49 ng	269698	Phenanthrene-d10	11.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	37
5	1-Aminocyclopentanecarboxylic ac...	297	C11H17Cl2NO4	1000329-17-6	25





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Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
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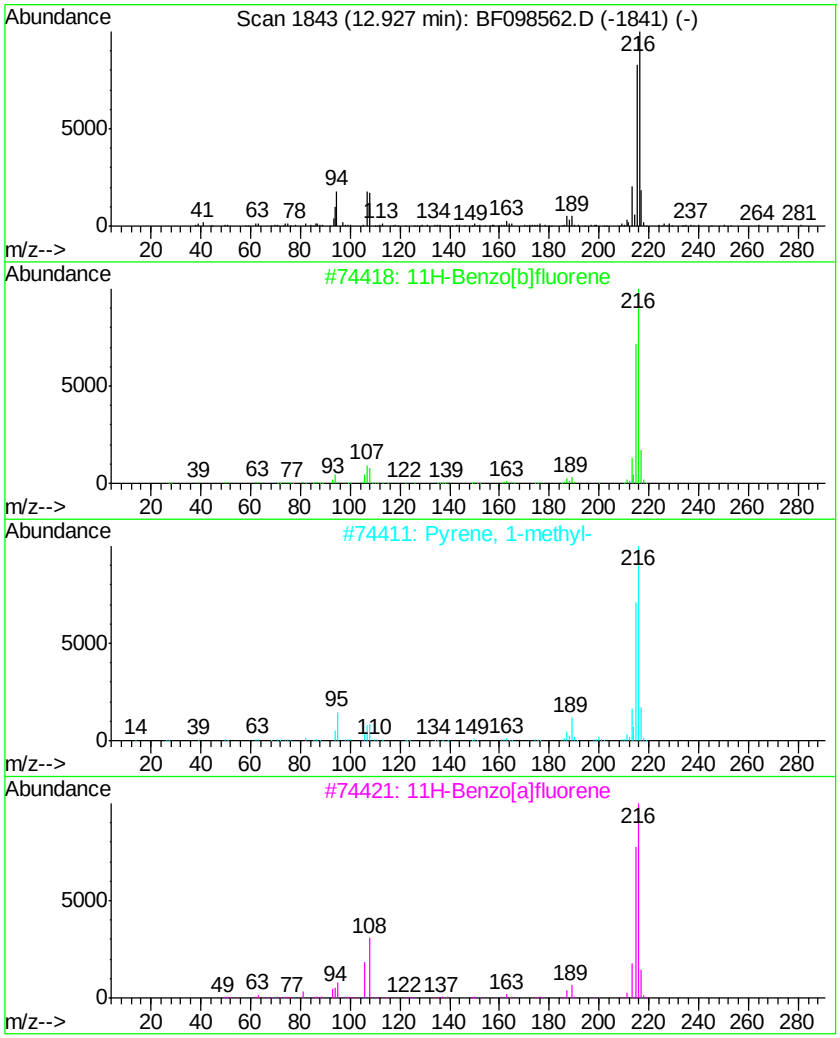
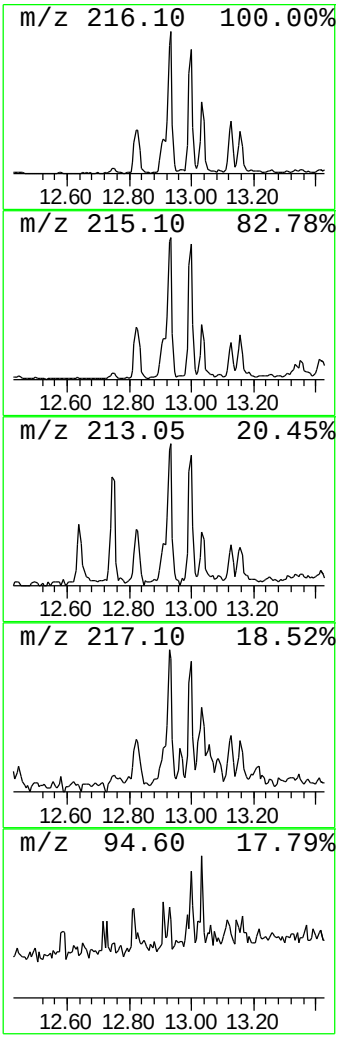
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	2.82 ng	215296	Chrysene-d12	13.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Data File : BF098562.D
Acq On : 15 Sep 2017 11:51
Operator : SJ/JU
Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
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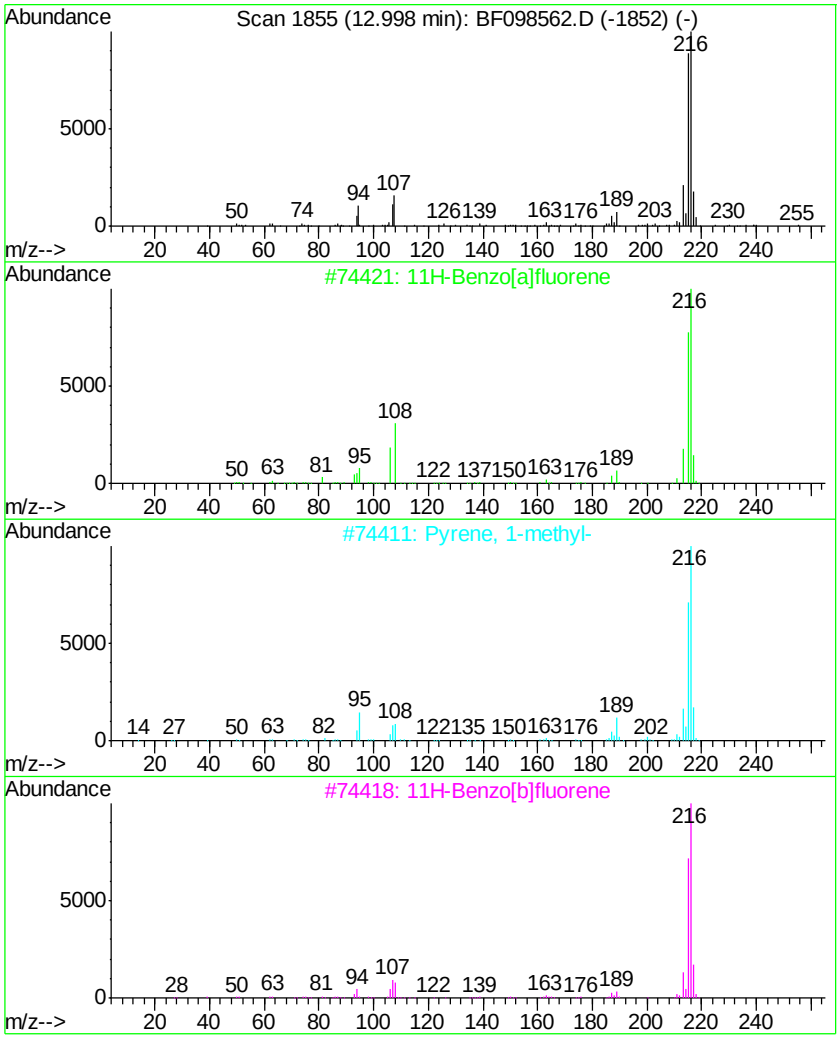
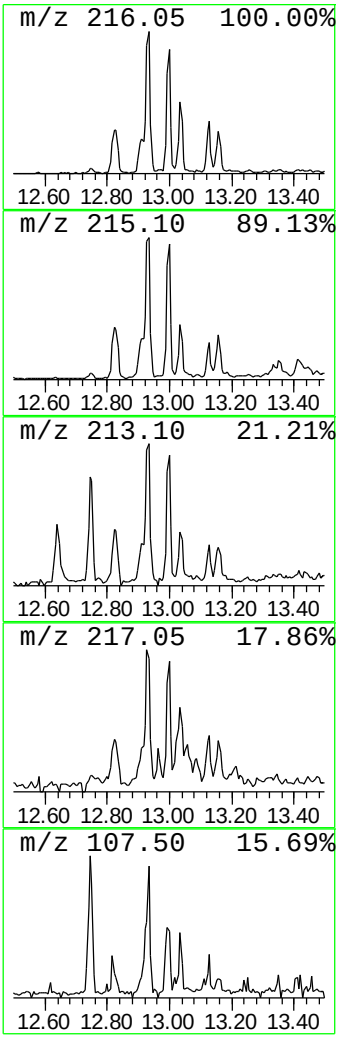
Peak Number 11 11H-Benzo[a]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.05 ng	156240	Chrysene-d12	13.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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Sample : I5161-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

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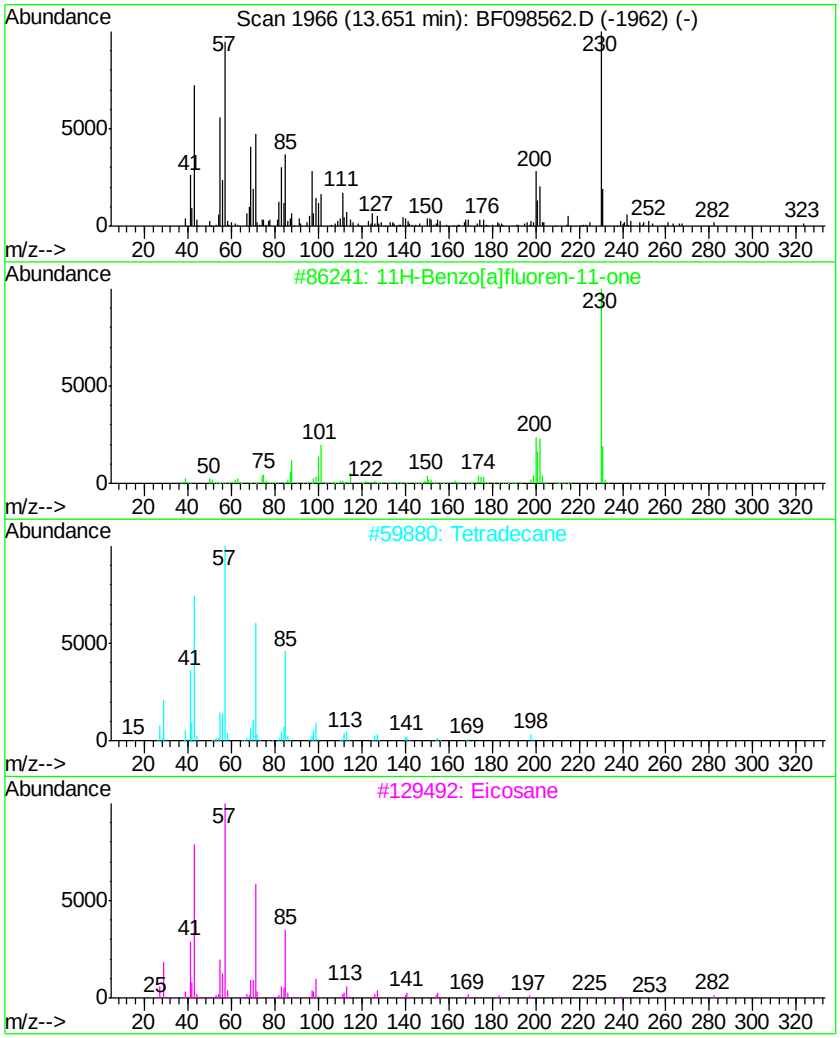
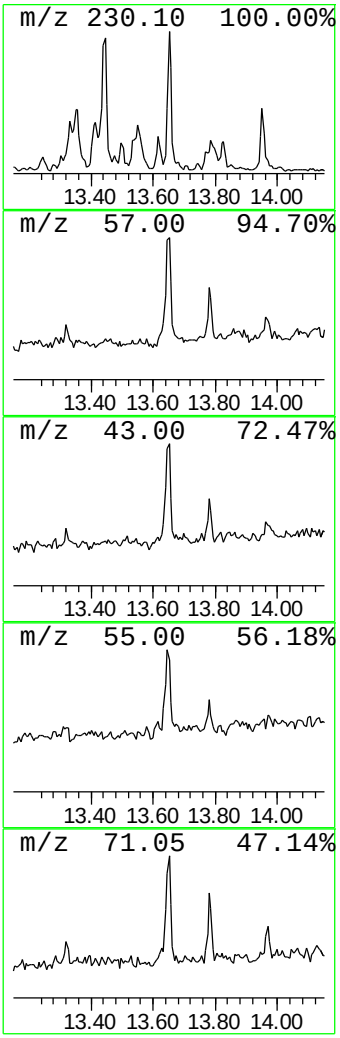
Peak Number 12 11H-Benzo[a]fluoren-11-one Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.65	2.90 ng	220780	Chrysene-d12	13.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	60
2	Tetradecane	198	C14H30	000629-59-4	56
3	Eicosane	282	C20H42	000112-95-8	53
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	43
5	Oxalic acid, cyclobutyl pentadec...	354	C21H38O4	1000309-70-5	30





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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RL-8-0-13

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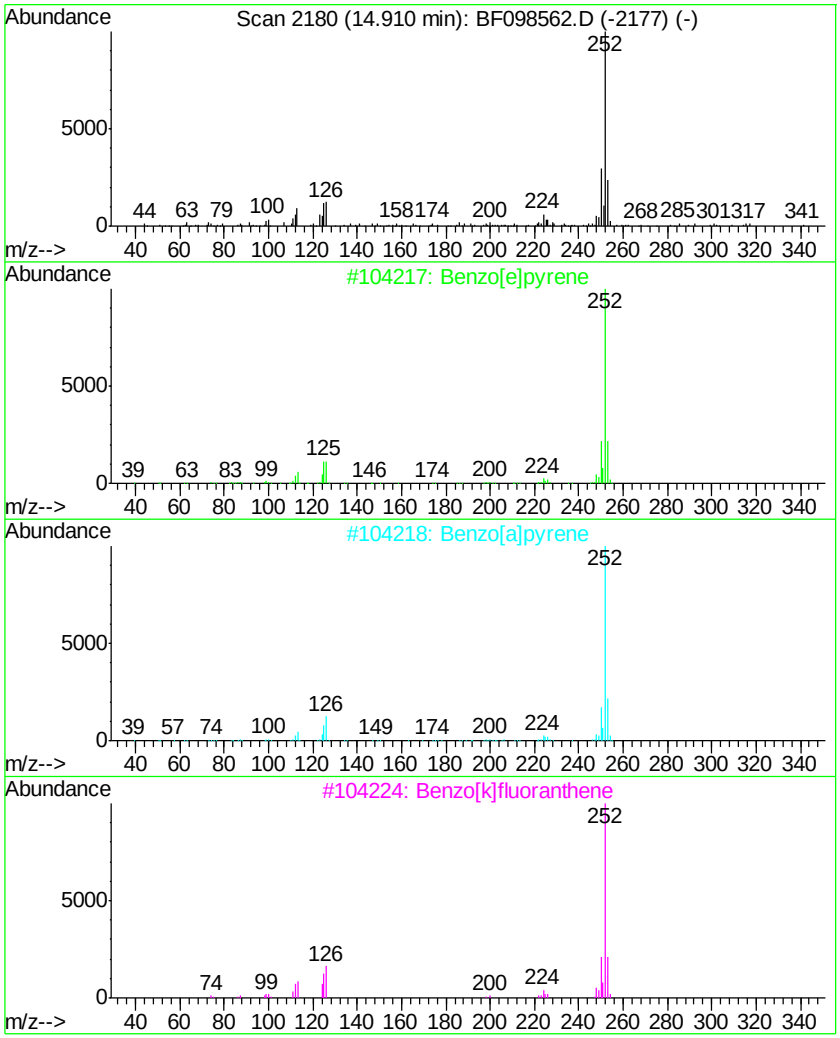
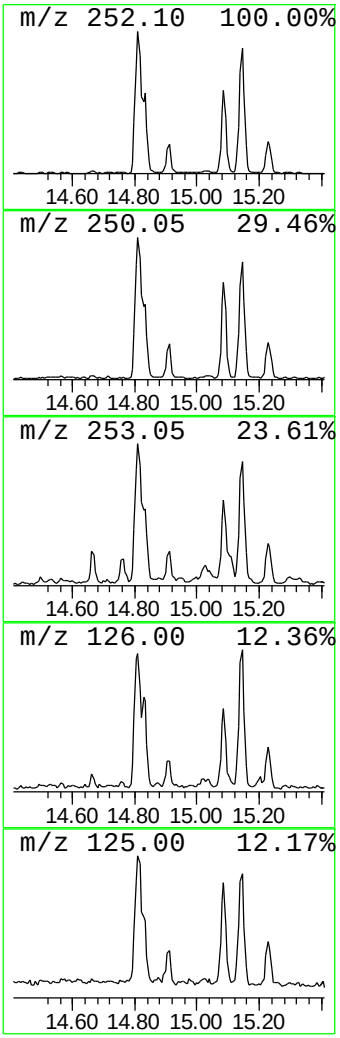
Peak Number 13 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.91	2.43 ng	106470	Perylene-d12	15.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Perylene	252	C20H12	000198-55-0	91





Tentatively Identified Compound (LSC) summary

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					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
R-(-)-1,2-propane...	2.98	2.3	ng	100223	1	6.65	881237	20.0
2-Pentanone, 4-hy...	4.83	8.7	ng	384649	1	6.65	881237	20.0
unknown6.42	6.42	87.6	ng	3861250	1	6.65	881237	20.0
Tridecane	10.59	2.3	ng	138548	4	11.16	1201740	20.0
1H-Cyclopropa[l]p...	11.66	2.0	ng	122375	4	11.16	1201740	20.0
Phenanthrene, 1-m...	11.69	2.8	ng	170357	4	11.16	1201740	20.0
4H-Cyclopenta[def...	11.77	4.5	ng	269698	4	11.16	1201740	20.0
11H-Benzo[b]fluorene	12.93	2.8	ng	215296	5	13.80	1525040	20.0
11H-Benzo[a]fluorene	13.00	2.0	ng	156240	5	13.80	1525040	20.0
11H-Benzo[a]fluor...	13.65	2.9	ng	220780	5	13.80	1525040	20.0
Benzo[e]pyrene	14.91	2.4	ng	106470	6	15.20	874910	20.0