LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102016\
Data File : BF090688.D
Acq On : 20 Oct 2016 17:59
Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

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-BF101316.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	5.046	235	237	243	rBV	198162	224932	7.21%	0.462%
2	5.480	272	275	281	rBV	441089	632660	20.29%	1.300%
3	5.777	299	301	308	rVB2	34585	60100	1.93%	0.123%
4	6.509	363	365	369	rBV	716973	735401	23.59%	1.511%
5	6.577	369	371	375	rVB3	35942	57804	1.85%	0.119%
6	6.646	375	377	381	rBV	834712	800994	25.69%	1.646%
7	6.874	395	397	401	rBV	1025352	1181096	37.88%	2.427%
8	7.034	409	411	413	rBV	694819	626498	20.09%	1.287%
9	7.160	419	422	423	rBV	41564	73228	2.35%	0.150%
10	7.252	427	430	431	rBV	105604	141522	4.54%	0.291%
11	7.434	445	446	449	rBV	269085	377969	12.12%	0.777%
12	7.480	449	450	452	rVB	68752	57382	1.84%	0.118%
13	7.583	456	459	463	rVB4	19931	54466	1.75%	0.112%
14	7.674	465	467	470	rVB3	42160	80431	2.58%	0.165%
15	7.915	485	488	491	rBV	183490	256840	8.24%	0.528%
16	8.166	507	510	512	rBV	1845089	1705766	54.71%	3.505%
17	8.463	532	536	539	rBV5	52393	130720	4.19%	0.269%
18	8.520	539	541	543	rBV	274753	381129	12.22%	0.783%
19	8.589	545	547	548	rBV2	104620	141772	4.55%	0.291%
20	8.715	552	558	560	rBV6	61165	176069	5.65%	0.362%
21	8.760	560	562	563	rBV	174255	137082	4.40%	0.282%
22	8.817	563	567	568	rBV4	52713	102873	3.30%	0.211%
23	8.932	574	577	580	rBV2	238014	517037	16.58%	1.062%
24	8.989	580	582	586	rVB4	102154	164787	5.29%	0.339%
25	9.092	589	591	592	rBV	168428	247015	7.92%	0.508%
26	9.126	592	594	595	rBV2	57693	85698	2.75%	0.176%
27	9.160	595	597	598	rBV2	131759	137762	4.42%	0.283%
28	9.195	598	600	602	rVB3	177414	221514	7.10%	0.455%
29	9.240	602	604	607	rBV	856343	763560	24.49%	1.569%
30	9.320	609	611	614	rBV2	545337	871721	27.96%	1.791%
31	9.389	614	617	618	rBV2	176871	381946	12.25%	0.785%
32	9.446	620	622	623	rVB2	128333	142126	4.56%	0.292%
33	9.515	625	628	630	rBV2	209298	397669	12.75%	0.817%
34	9.583	632	634	637	rBV3	266972	471880	15.13%	0.970%

LSC Area Percent Report

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Misc :
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Instrument : BNA_F
ClientSampleId : FD-2

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-BF101316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.629	637	638	641	rBV3	931583	1361063	43.65%	2.797%
36	9.789	650	652	655	rBV4	533206	930851	29.86%	1.913%
37	9.835	655	656	657	rVV	797972	603435	19.35%	1.240%
38	9.926	660	664	665	rVV	1662105	2102581	67.44%	4.320%
39	9.960	665	667	672	rBV6	331906	664930	21.33%	1.366%
40	10.029	672	673	675	rBV2	260329	351099	11.26%	0.721%
41	10.120	679	681	683	rBV3	224906	403230	12.93%	0.829%
42	10.246	690	692	695	rBV3	467628	1043066	33.45%	2.143%
43	10.326	698	699	701	rVV2	373152	669303	21.47%	1.375%
44	10.360	701	702	703	rVB	712873	516507	16.57%	1.061%
45	10.463	709	711	712	rBV2	392211	434827	13.95%	0.893%
46	10.715	731	733	735	rVB2	610079	566647	18.17%	1.164%
47	10.841	742	744	747	rVB2	1048797	1868797	59.94%	3.840%
48	10.921	748	751	753	rBV	499362	1016129	32.59%	2.088%
49	11.058	761	763	764	rBV	455748	622090	19.95%	1.278%
50	11.286	781	783	784	rVB	674933	554319	17.78%	1.139%
51	11.412	792	794	798	rBV2	1152707	1895134	60.78%	3.894%
52	11.526	802	804	807	rBV2	518964	988897	31.72%	2.032%
53	11.709	818	820	822	rBV	928465	836470	26.83%	1.719%
54	11.743	822	823	827	rVB2	576326	707654	22.70%	1.454%
55	11.915	837	838	839	rBV	598577	705294	22.62%	1.449%
56	11.949	839	841	845	rVV3	1000069	1350162	43.30%	2.774%
57	12.029	846	848	852	rVB	1082209	1730883	55.51%	3.557%
58	12.121	854	856	857	rBV	1227214	1074455	34.46%	2.208%
59	12.155	857	859	860	rVB	716355	593955	19.05%	1.220%
60	12.212	862	864	865	rBV	534563	558996	17.93%	1.149%
61	12.361	875	877	879	rVB2	675418	1139343	36.54%	2.341%
62	12.475	885	887	889	rBV2	1848166	3117904	100.00%	6.407%
63	12.635	900	901	902	rVB	516016	353729	11.35%	0.727%
64	12.886	919	923	924	rBV3	1249116	2140858	68.66%	4.399%
65	12.921	924	926	928	rVB	1229632	1251634	40.14%	2.572%
66	13.001	932	933	935	rBV	896995	728492	23.36%	1.497%
67	14.064	1023	1026	1032	rVB3	1133720	1843580	59.13%	3.788%
68	15.515	1150	1153	1157	rVB	825972	1400364	44.91%	2.877%

Sum of corrected areas: 48666127

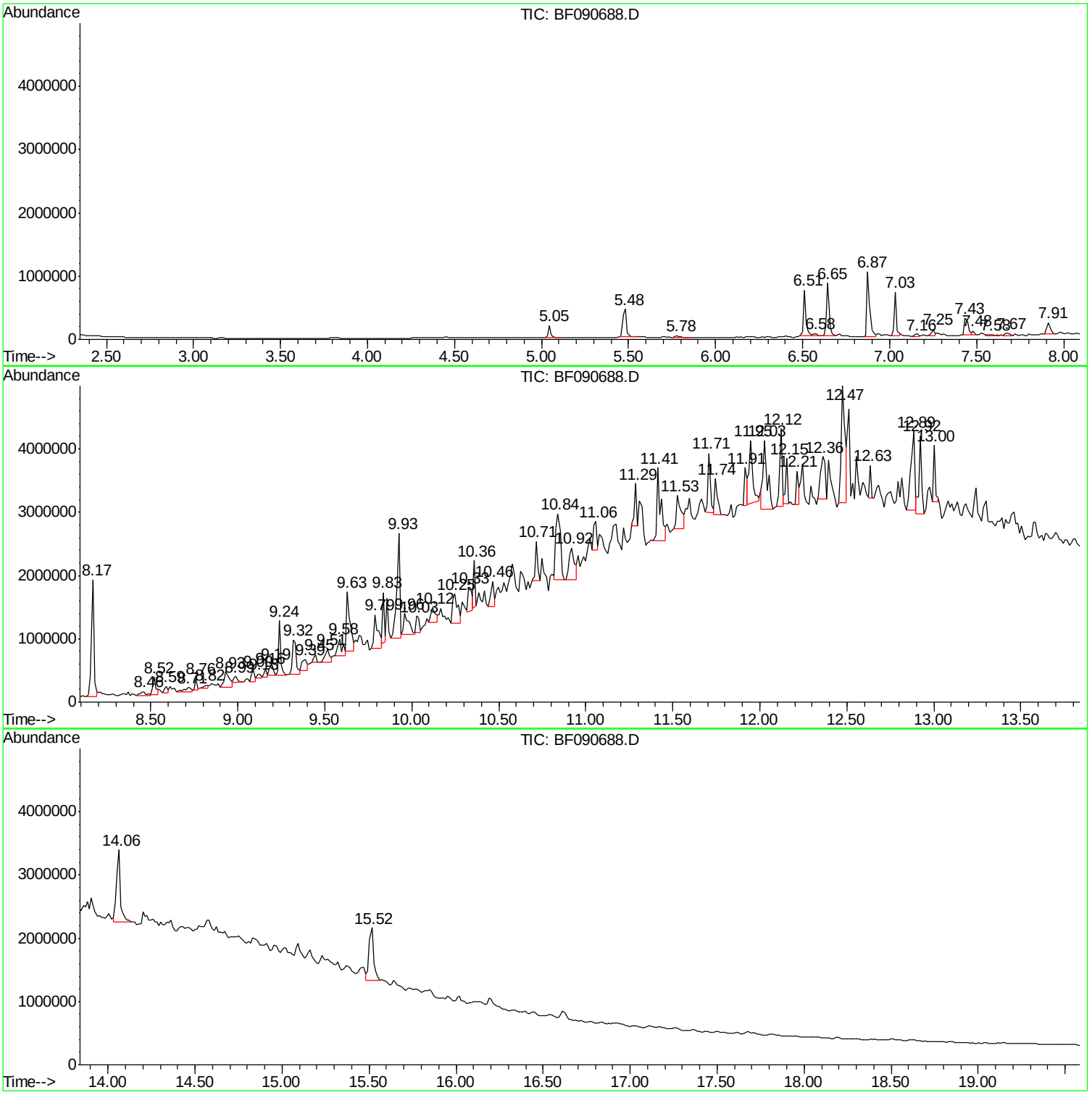
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102016\
Data File : BF090688.D
Acq On : 20 Oct 2016 17:59
Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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:\HPCHEM1\BNA F\DATA\BF102016\
Data File : BF090688.D
Acq On : 20 Oct 2016 17:59
Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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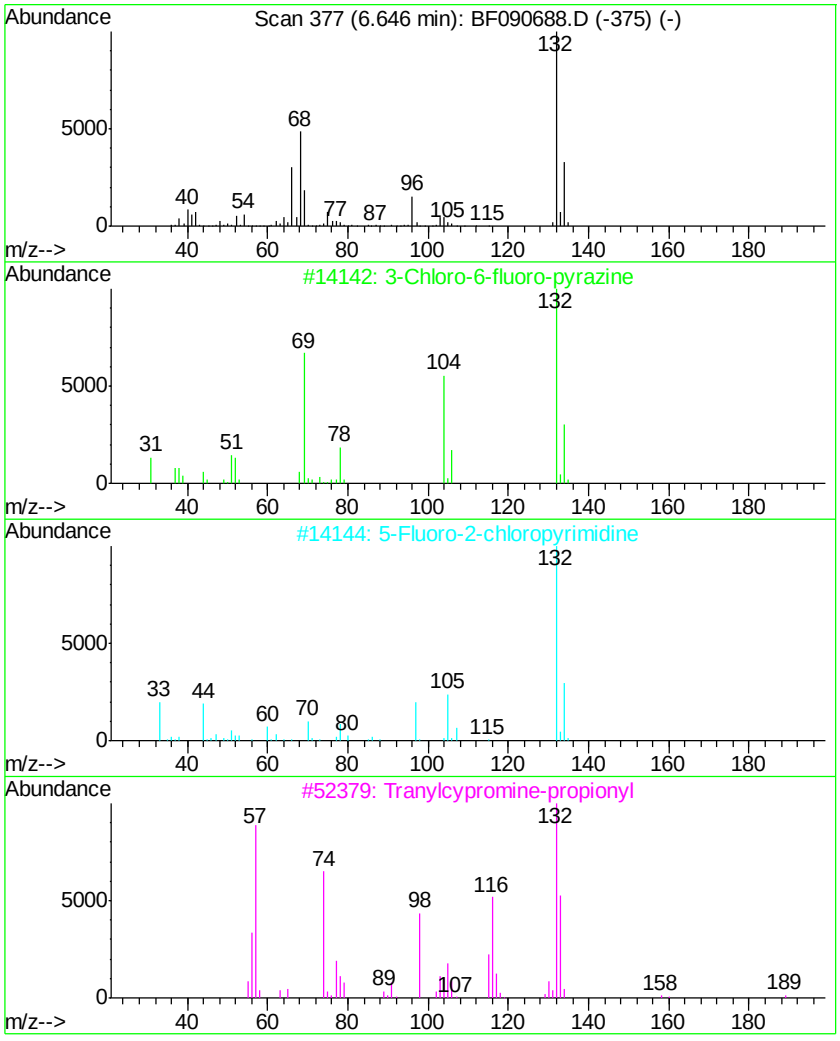
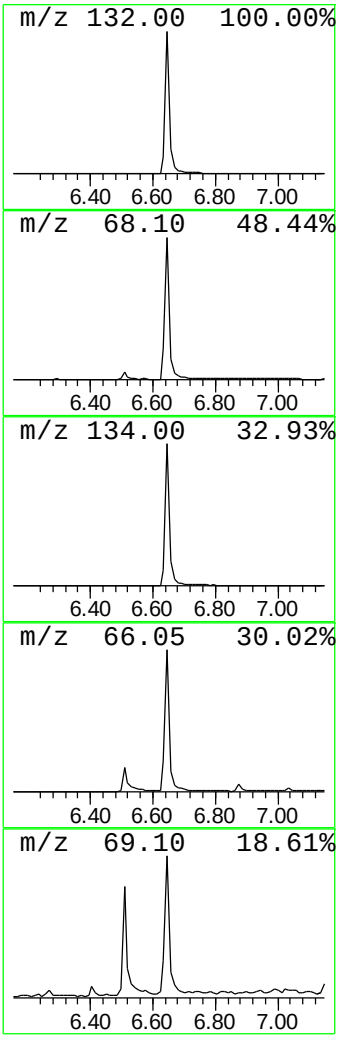
Peak Number 1 unknown6.65 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	13.56 ng	800994	1,4-Dichlorobenzene-d4	6.87

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	10
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102016\
Data File : BF090688.D
Acq On : 20 Oct 2016 17:59
Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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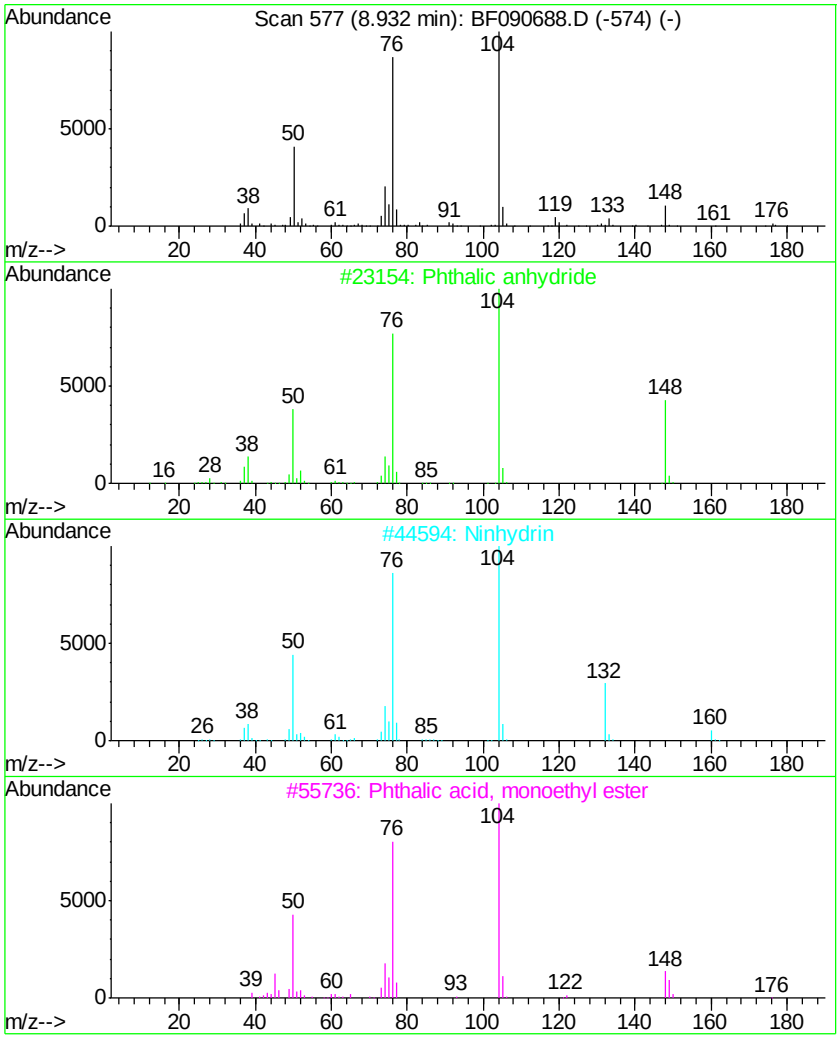
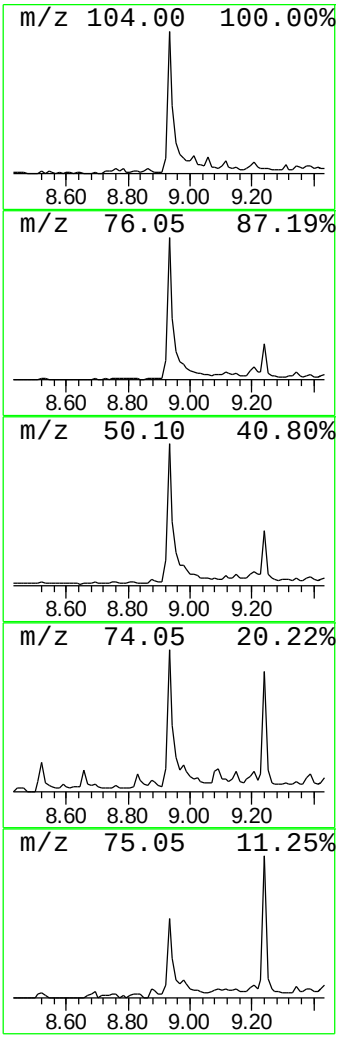
Peak Number 3 Phthalic anhydride Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.93	6.06 ng	517037	Naphthalene-d8	8.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic anhydride	148	C8H4O3	000085-44-9	95
2	Ninhydrin	178	C9H6O4	000485-47-2	90
3	Phthalic acid, monoethyl ester	194	C10H10O4	002306-33-4	90
4	1,2-Benzenedicarboxylic acid	166	C8H6O4	000088-99-3	90
5	Indan-1,2,3-trione	160	C9H4O3	000938-24-9	83





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102016\
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Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

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

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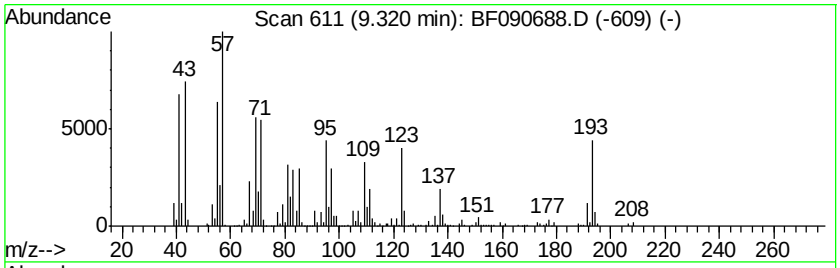
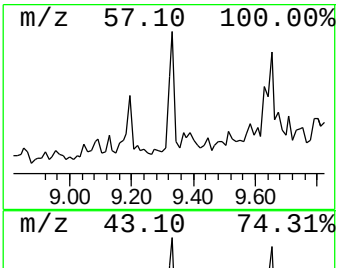
Peak Number 4 unknown9.32 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.32	8.29 ng	871721	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanol, 5-methyl-2-(1-meth...	156	C10H20O	000491-02-1	27
2	3-Methyl-2-(2-oxopropyl)furan	138	C8H10O2	087773-62-4	20
3	Oxalic acid, allyl hexadecyl ester	354	C21H38O4	1000309-24-4	18
4	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	18
5	Nonane, 4,5-dimethyl-	156	C11H24	017302-23-7	15





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102016\
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Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
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TIC Library : C:\DATABASE\NIST11.L
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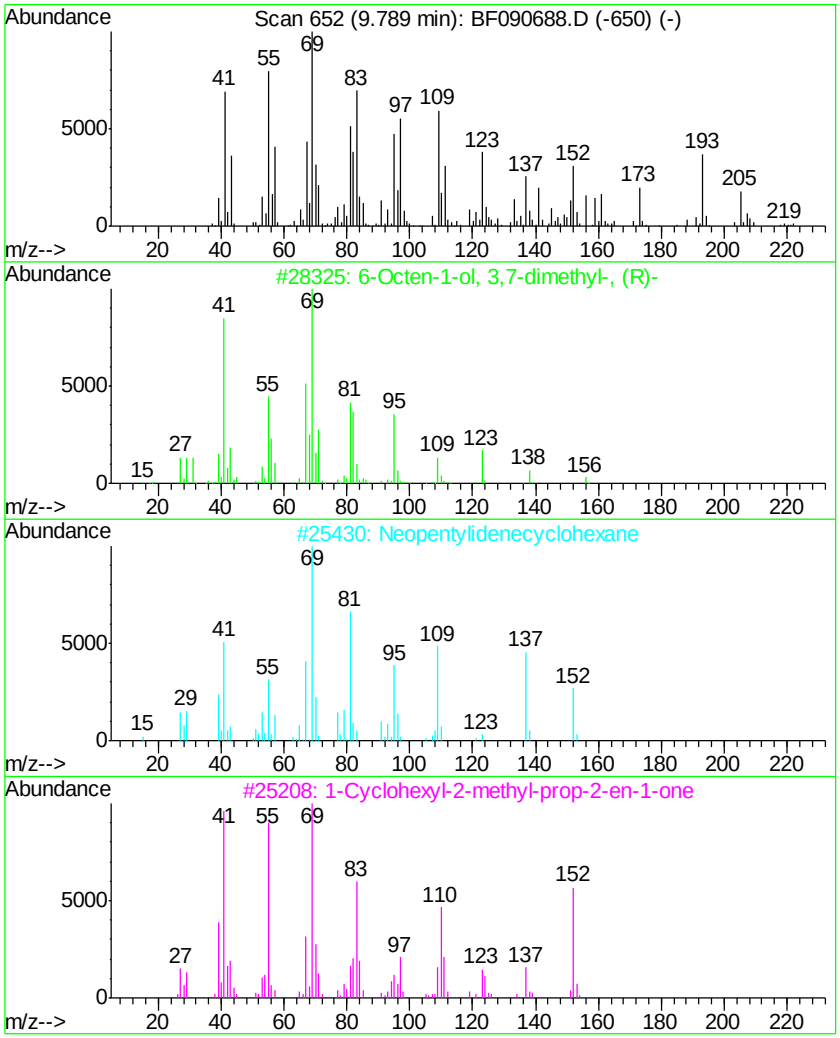
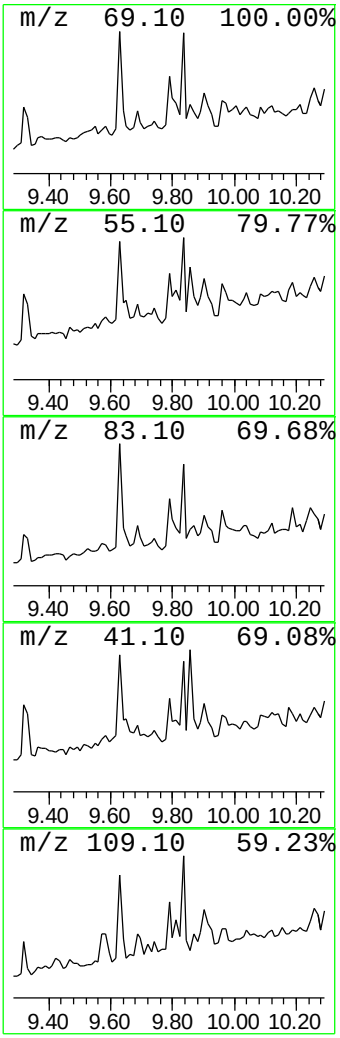
Peak Number 5 unknown9.79 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.79	8.85 ng	930851	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Octen-1-ol, 3,7-dimethyl-, (R)-	156	C10H20O	001117-61-9	49
2	Neopentylidenecyclohexane	152	C11H20	039546-80-0	46
3	1-Cyclohexyl-2-methyl-prop-2-en-...	152	C10H16O	025183-82-8	35
4	Bicyclo[3.1.1]heptan-3-one, 2,6,...	152	C10H16O	000547-60-4	27
5	1,2-Dodecanediol	202	C12H26O2	001119-87-5	22





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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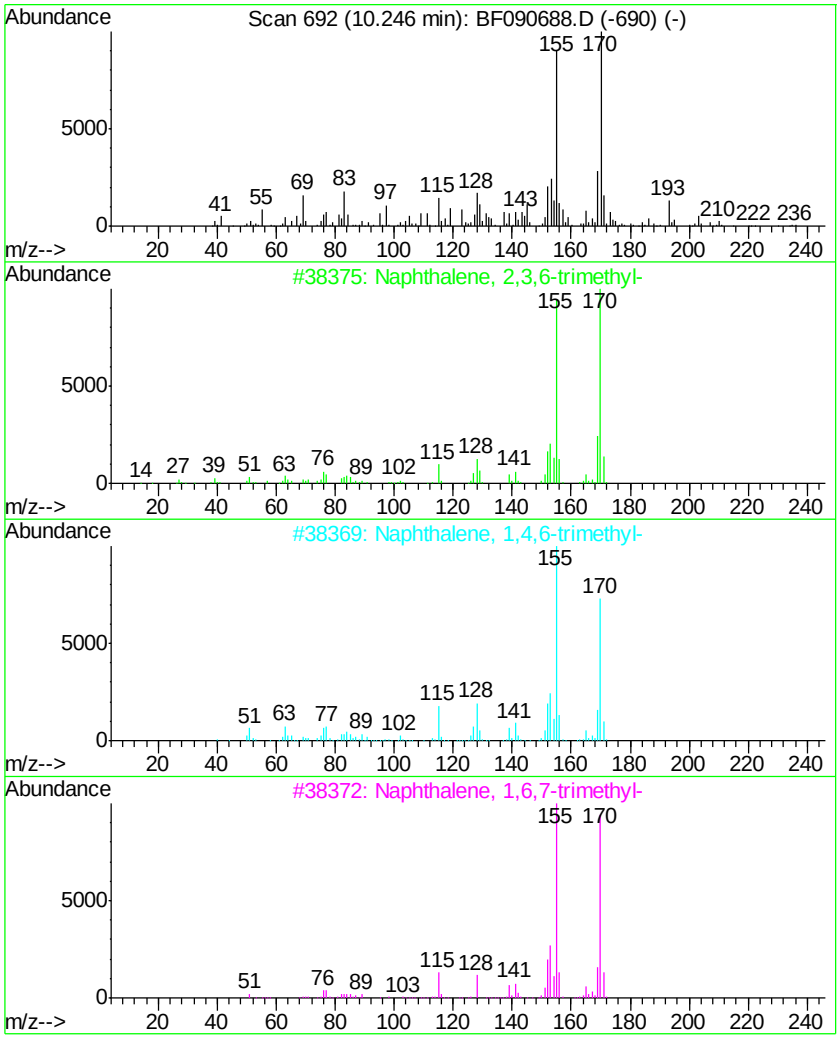
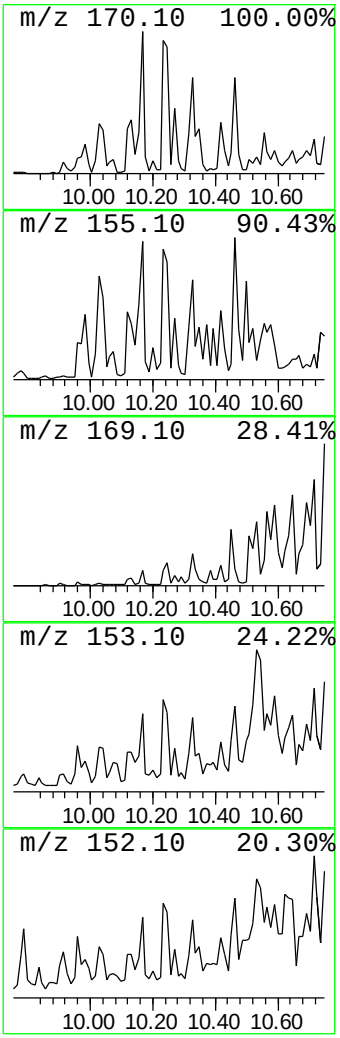
Peak Number 6 Naphthalene, 2,3,6-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.25	9.92 ng	1043070	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	98
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	97
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
4	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	96
5	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	94





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Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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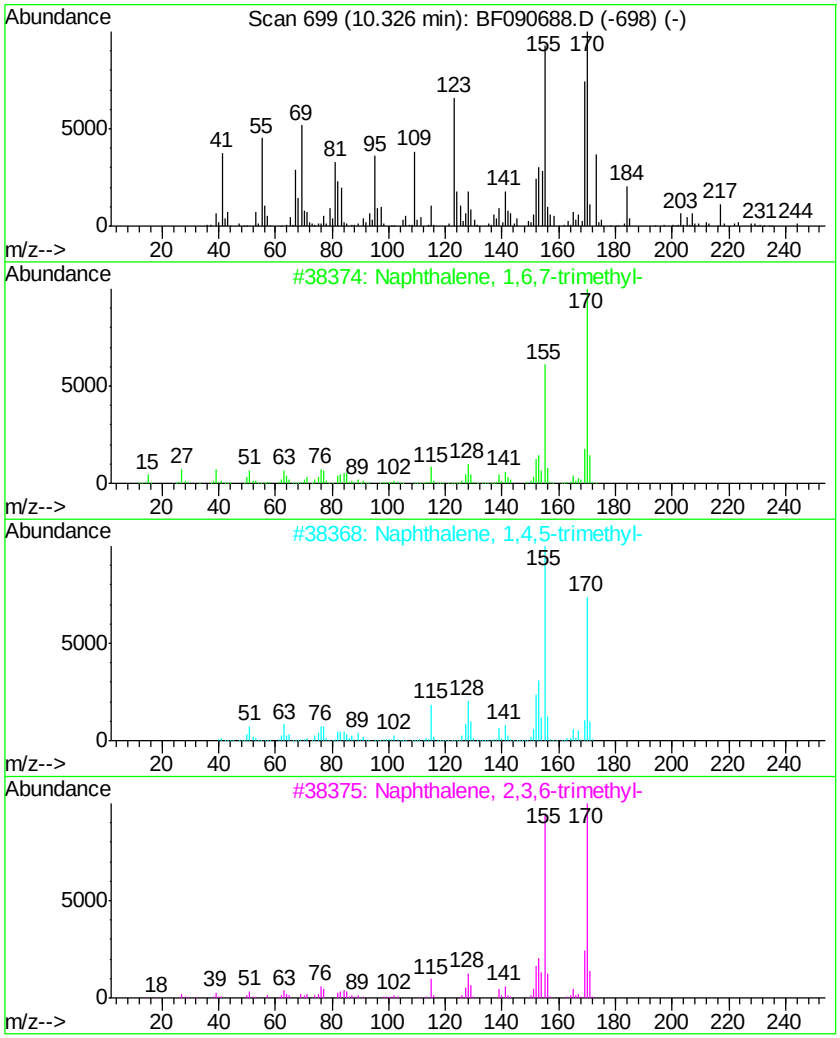
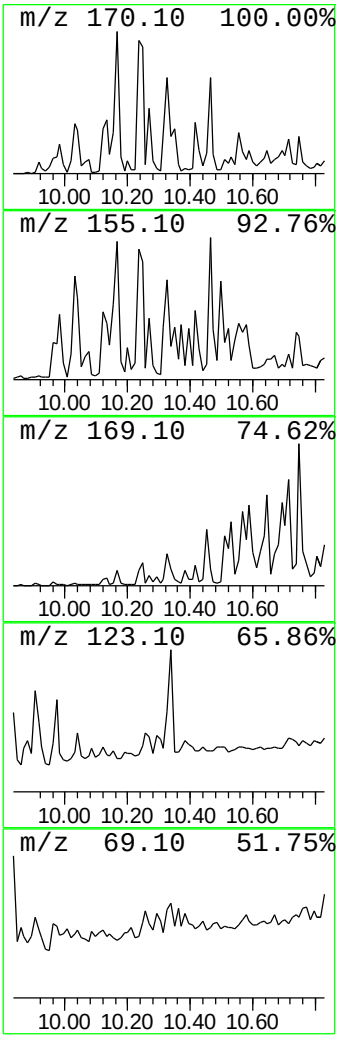
Peak Number 7 Naphthalene, 1,6,7-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.33	6.37 ng	669303	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	83
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	50
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	45
4	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	43
5	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	41





Data Path : Z:\HPCHEM1\BNA F\DATA\BF102016\
Data File : BF090688.D
Acq On : 20 Oct 2016 17:59
Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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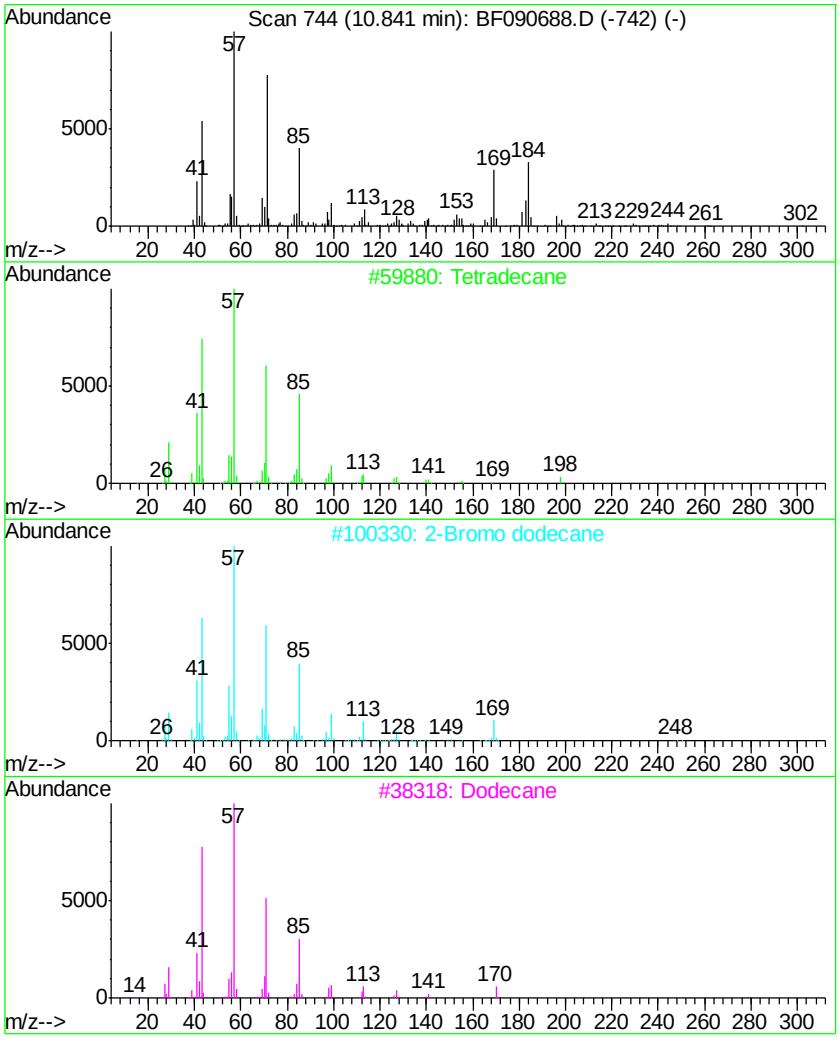
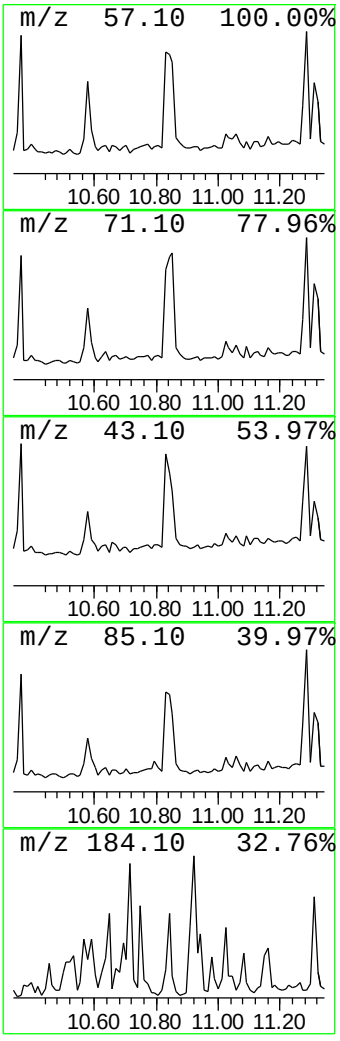
Peak Number 8 Tetradecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.84	19.72 ng	1868800	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	86
2	2-Bromo dodecane	248	C12H25Br	013187-99-0	86
3	Dodecane	170	C12H26	000112-40-3	70
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	68
5	Tetracosane	338	C24H50	000646-31-1	62





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Data File : BF090688.D
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Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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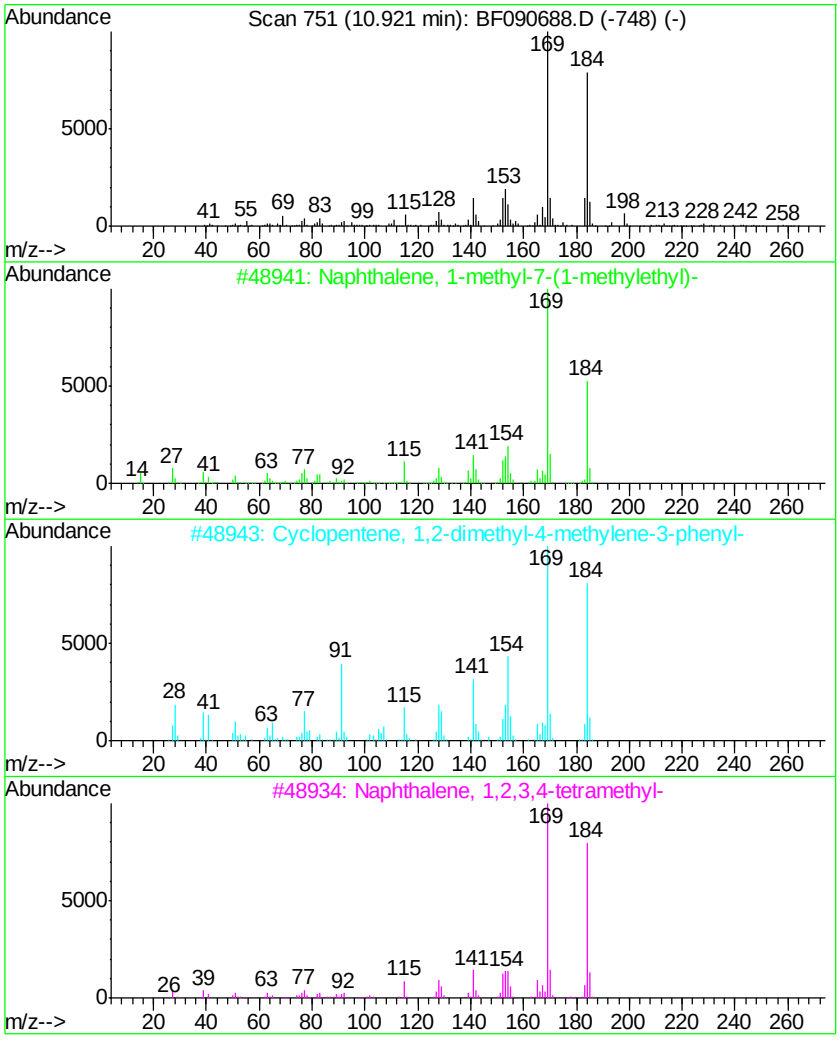
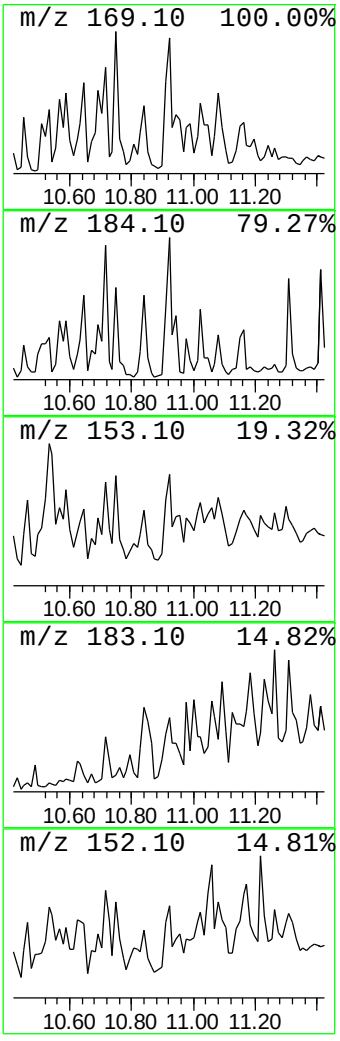
Peak Number 9 Naphthalene, 1-methyl-7-(1-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	10.72 ng	1016130	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-7-(1-methy...	184	C14H16	000490-65-3	93
2	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	90
3	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	90
4	Chamazulene	184	C14H16	000529-05-5	90
5	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	80





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Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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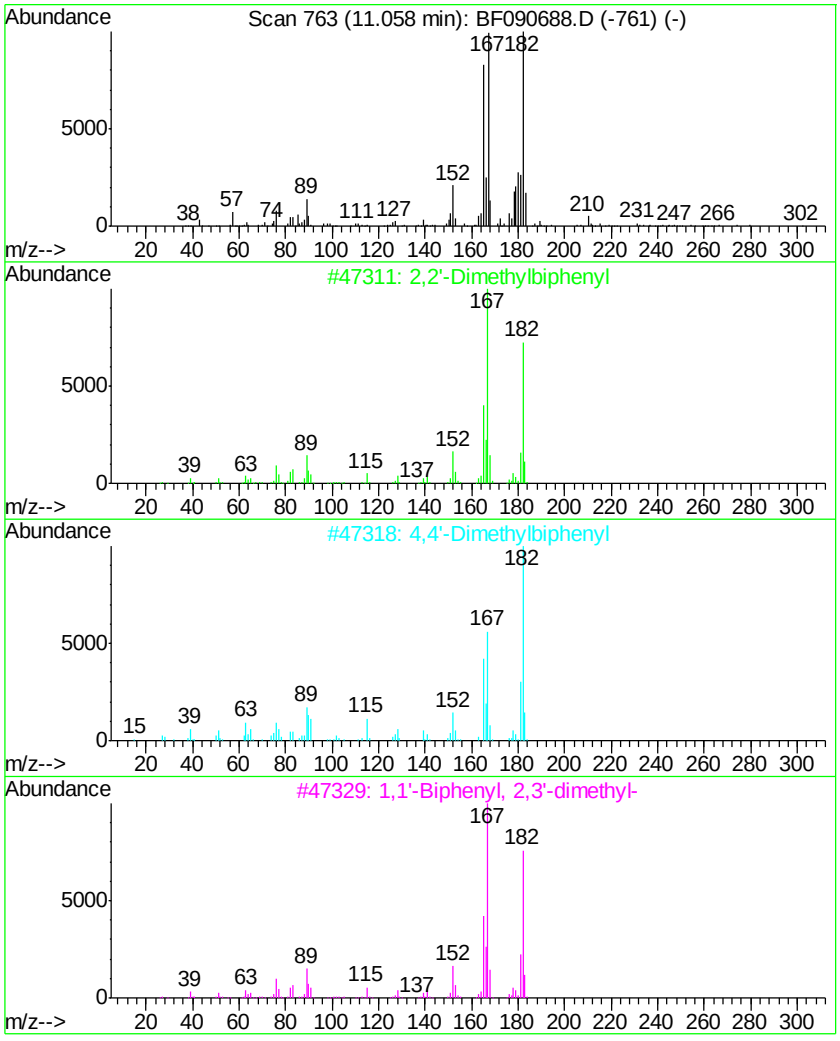
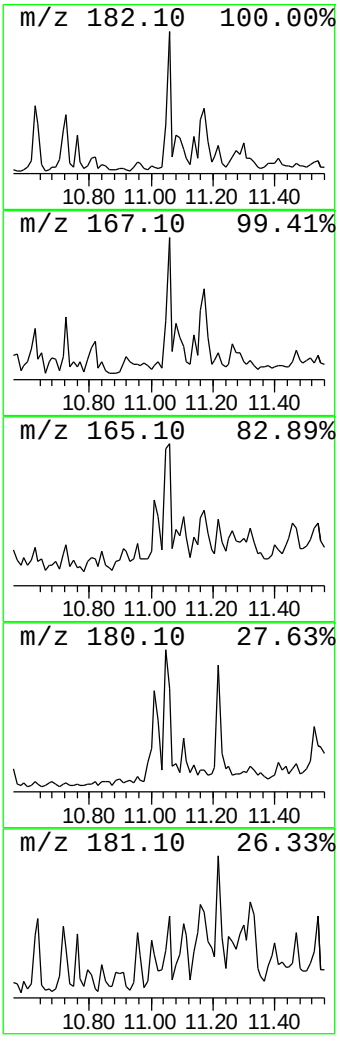
Peak Number 10 2,2'-Dimethylbiphenyl Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	6.57 ng	622090	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2'-Dimethylbiphenyl	182	C14H14	000605-39-0	76
2	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	74
3	1,1'-Biphenyl, 2,3'-dimethyl-	182	C14H14	000611-43-8	70
4	Benzene, 1-methyl-3-(phenylmethyl)-	182	C14H14	000620-47-3	70
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	68





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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

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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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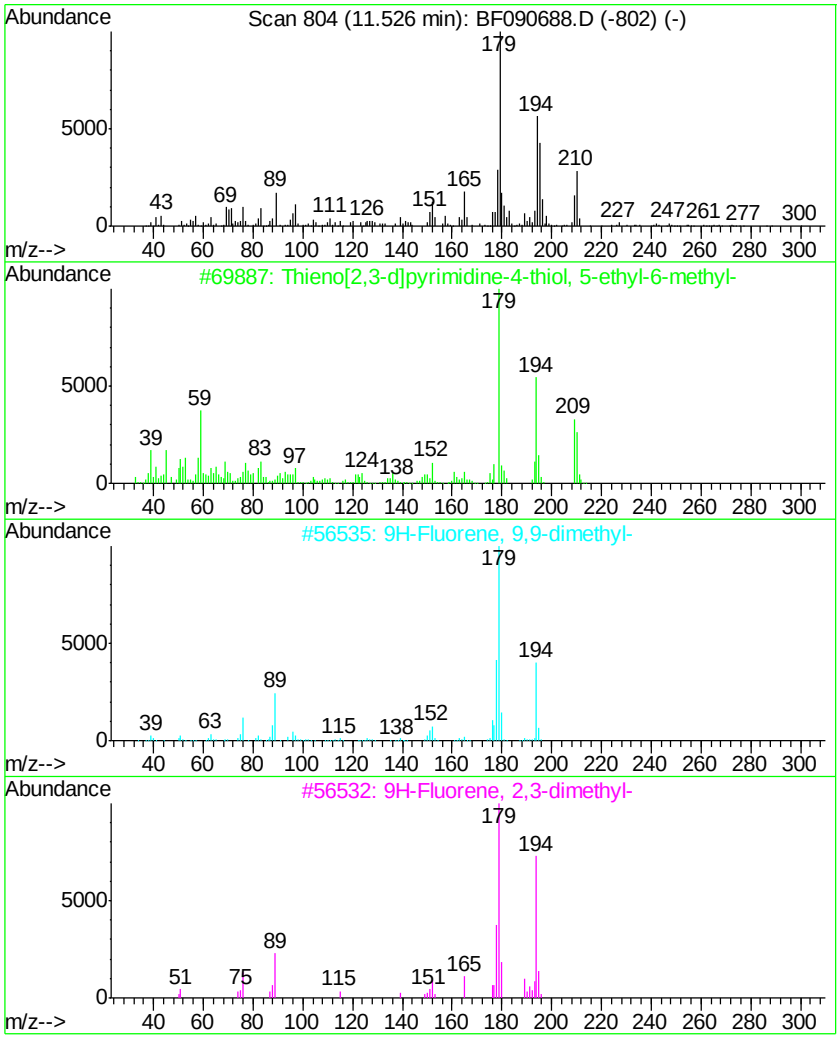
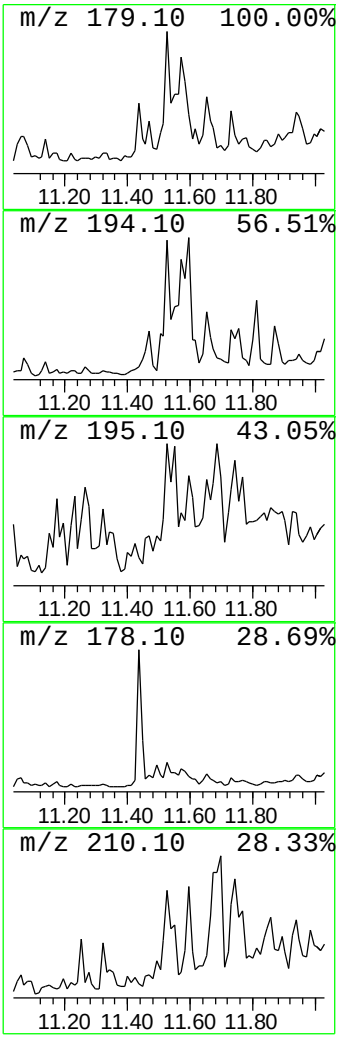
Peak Number 11 Thieno[2,3-d]pyrimidine-4-t... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.53	10.44 ng	988897	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thieno[2,3-d]pyrimidine-4-thiol,...	210	C9H10N2S2	1000303-48-8	62
2	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	53
3	9H-Fluorene, 2,3-dimethyl-	194	C15H14	004612-63-9	46
4	Benzo[f]isoquinoline	179	C13H9N	000229-67-4	46
5	Pyridine, 2-(phenylethynyl)-	179	C13H9N	013141-42-9	46





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ALS Vial : 12 Sample Multiplier: 1

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ClientSampleId : FD-2

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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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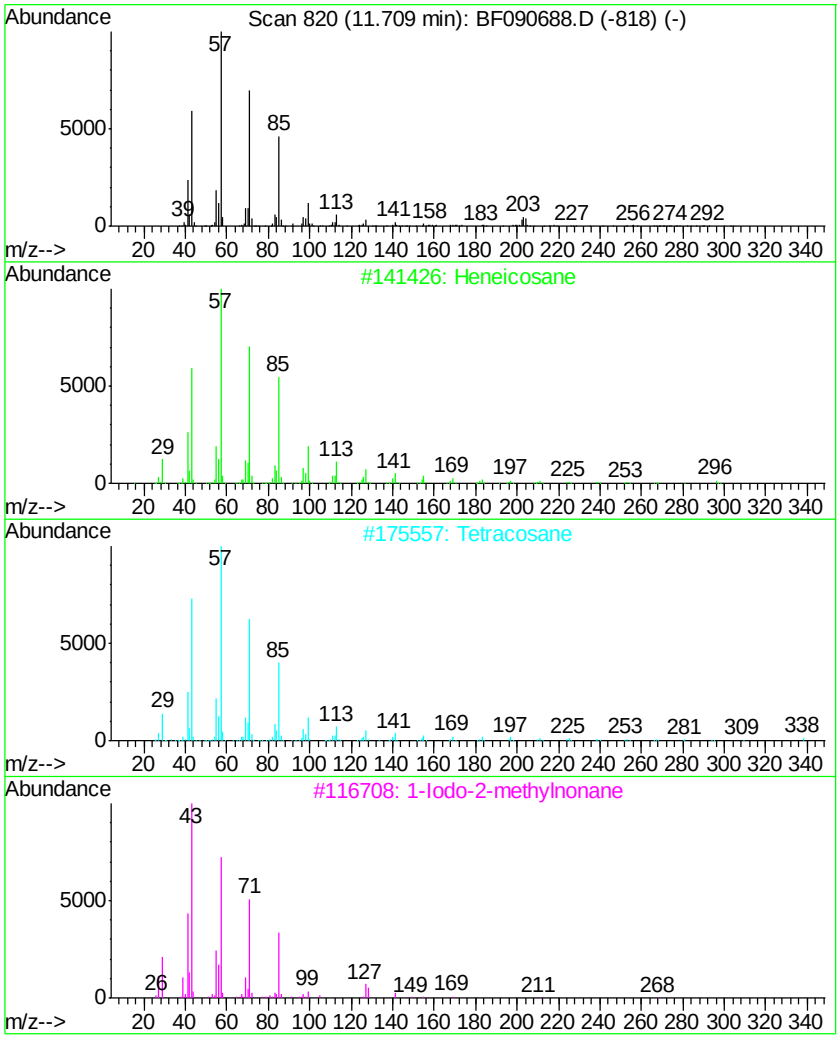
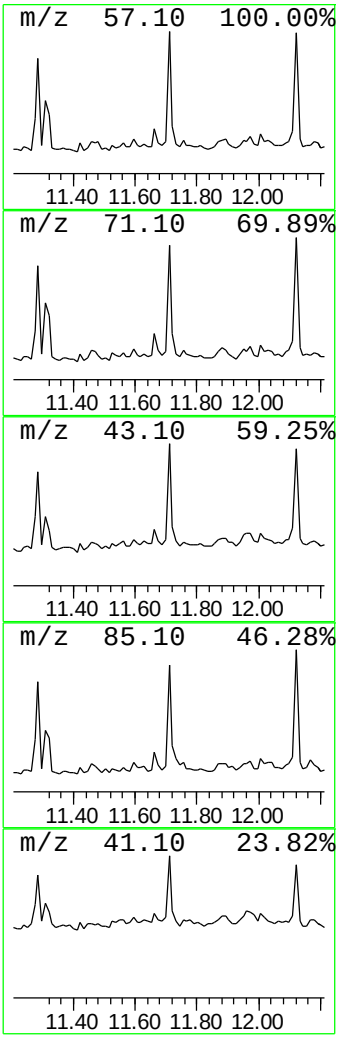
Peak Number 12 Heneicosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	8.83 ng	836470	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	87
2	Tetracosane	338	C24H50	000646-31-1	86
3	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	64
4	Tridecane, 4-methyl-	198	C14H30	026730-12-1	58
5	Tridecane, 2-methyl-	198	C14H30	001560-96-9	58





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Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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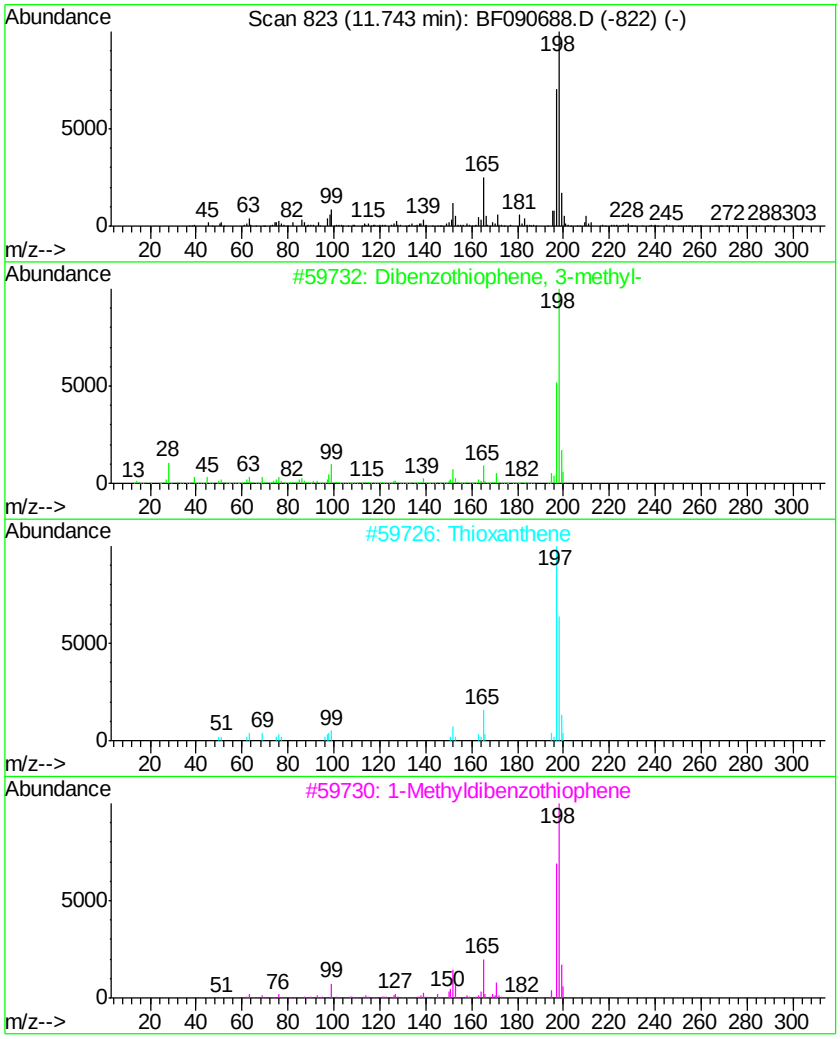
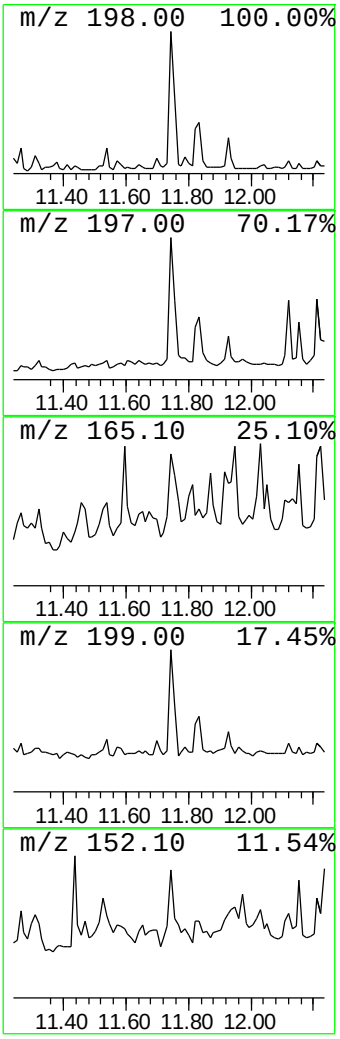
Peak Number 13 Dibenzothiophene, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	7.47 ng	707654	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	95
2	Thioxanthene	198	C13H10S	000261-31-4	92
3	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	91
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	87
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64





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ALS Vial : 12 Sample Multiplier: 1

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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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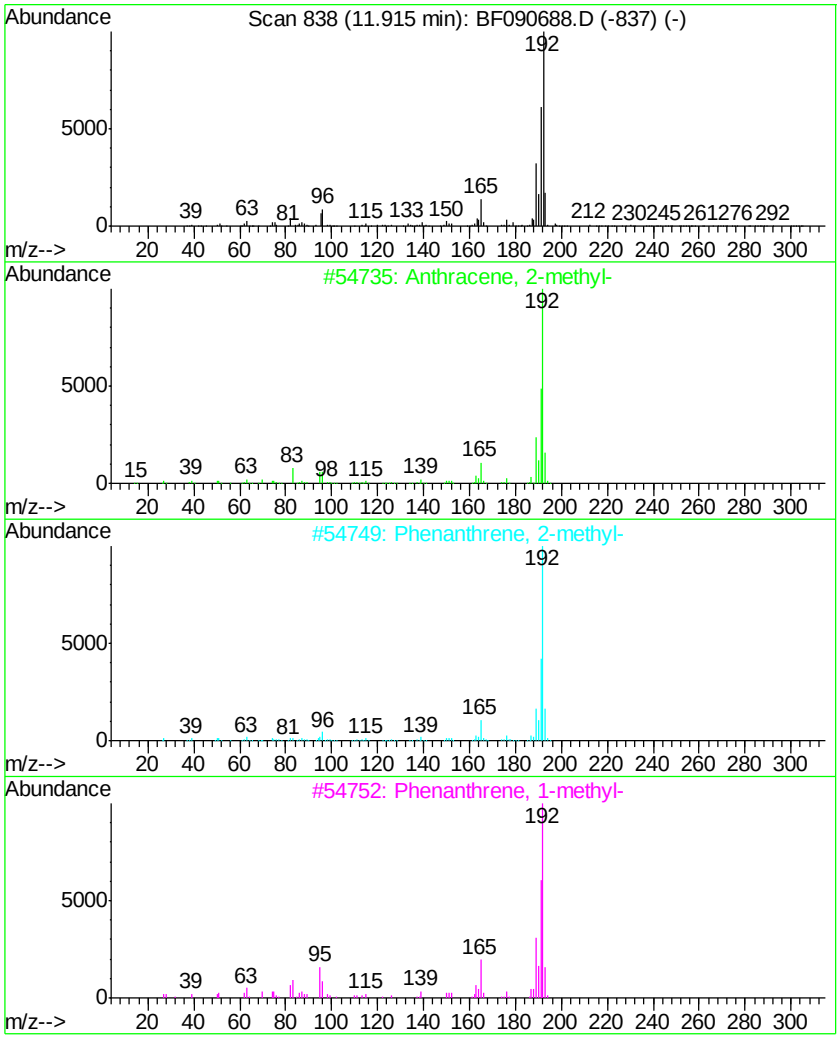
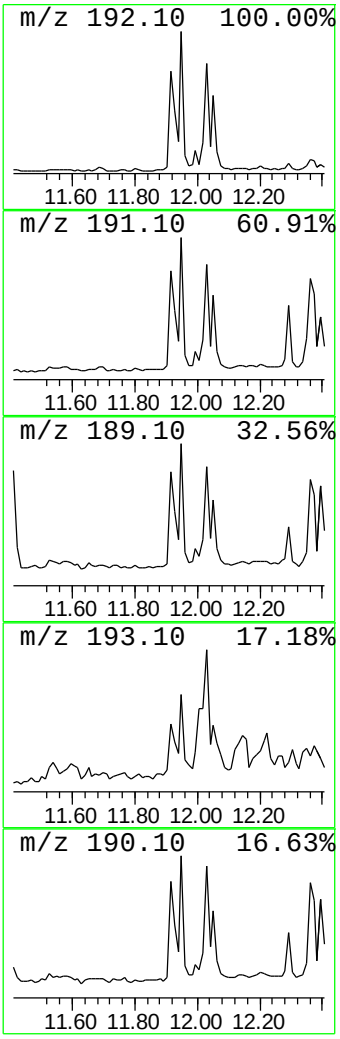
Peak Number 14 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	7.44 ng	705294	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Instrument : BNA_F
ClientSampleId : FD-2

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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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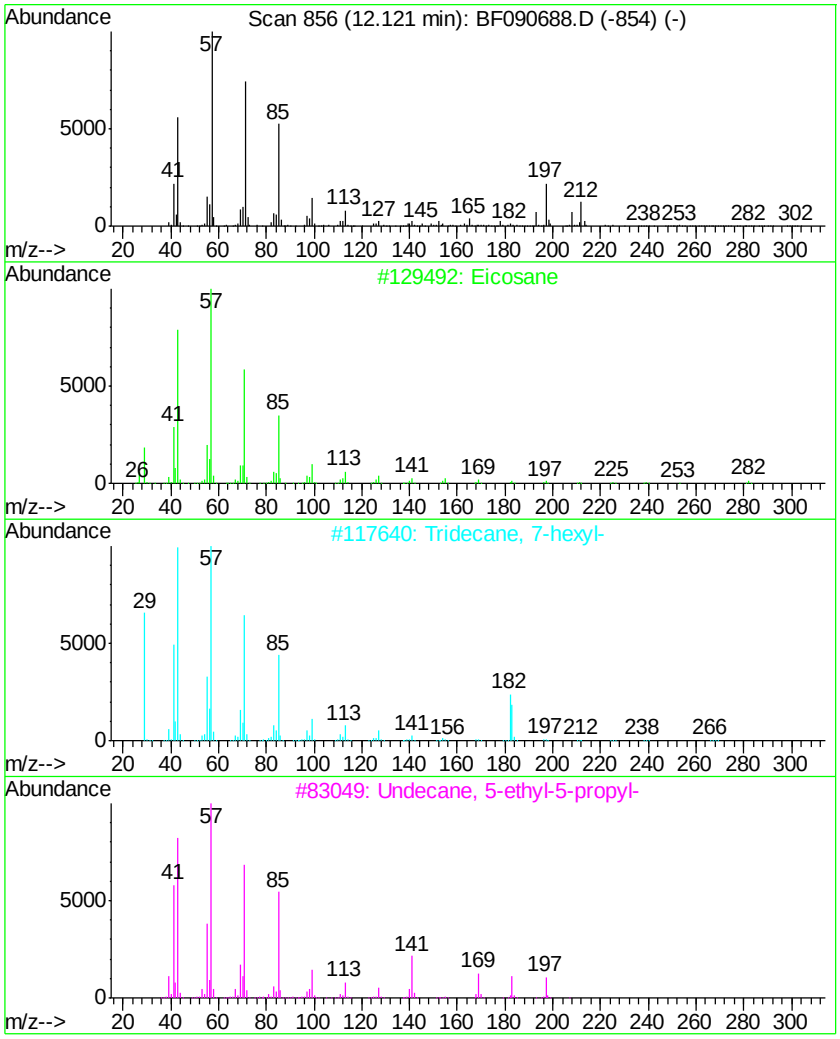
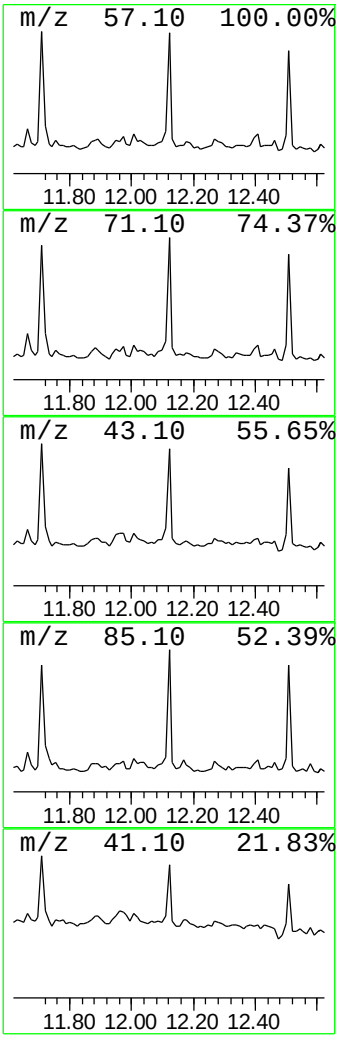
Peak Number 15 Eicosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	11.34 ng	1074460	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	68
2	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	64
3	Undecane, 5-ethyl-5-propyl-	226	C16H34	002755-07-9	64
4	Heneicosane	296	C21H44	000629-94-7	59
5	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	58





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Misc :
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Instrument : BNA_F
ClientSampleId : FD-2

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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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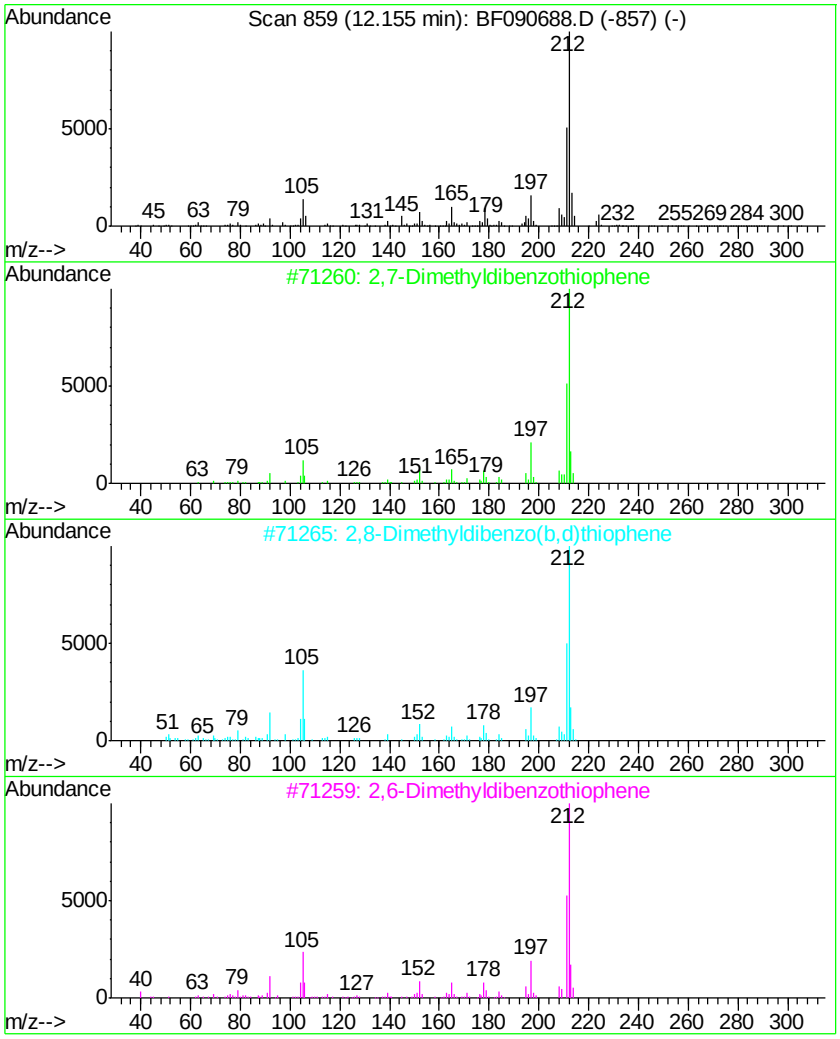
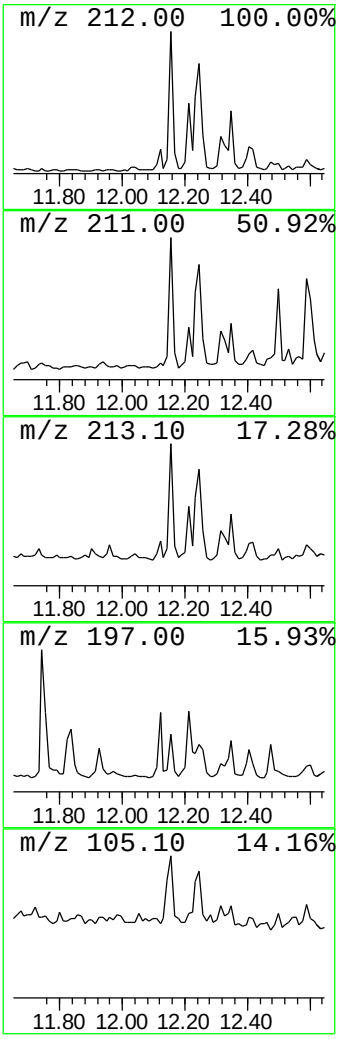
Peak Number 16 2,7-Dimethyldibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	6.27 ng	593955	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,7-Dimethyldibenzothiophene	212	C14H12S	031317-19-8	98
2	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	96
3	2,6-Dimethyldibenzothiophene	212	C14H12S	089816-75-1	96
4	Dibenzothiophene, 4,6-dimethyl-	212	C14H12S	001207-12-1	87
5	1,7-Dimethyldibenzothiophene	212	C14H12S	089816-53-5	80





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ALS Vial : 12 Sample Multiplier: 1

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ClientSampleId : FD-2

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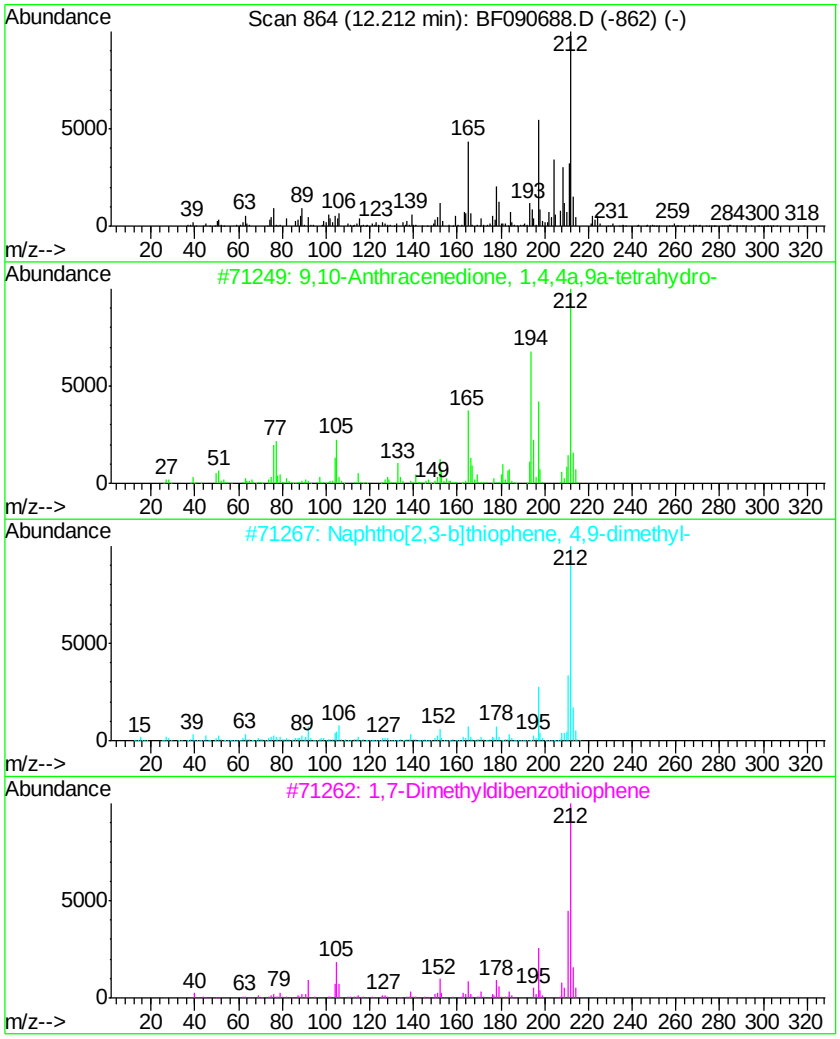
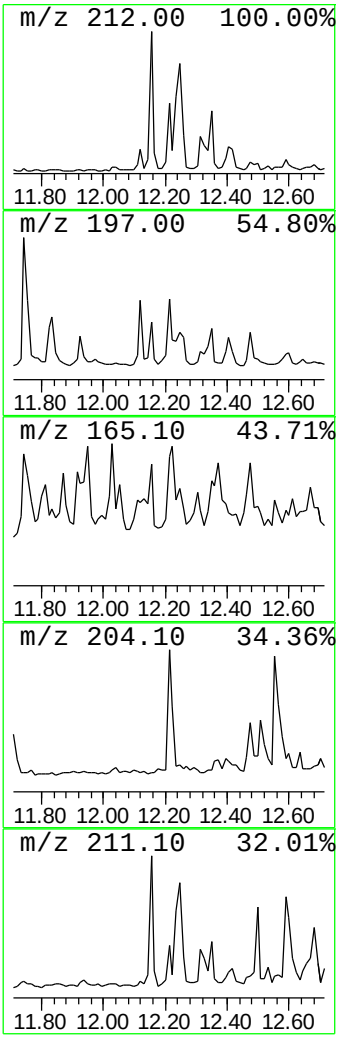
Peak Number 17 unknown12.21 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	5.90 ng	558996	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione, 1,4,4a,9a-...	212	C14H12O2	056136-14-2	46
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	46
3	1,7-Dimethyldibenzothiophene	212	C14H12S	089816-53-5	45
4	7,7-Dimethyl-5,6,7,8-tetrahydro-...	212	C9H12N2S2	1000318-05-2	43
5	Naphthalene, 6-methoxy-2-(1-bute...	212	C15H16O	101327-54-2	43





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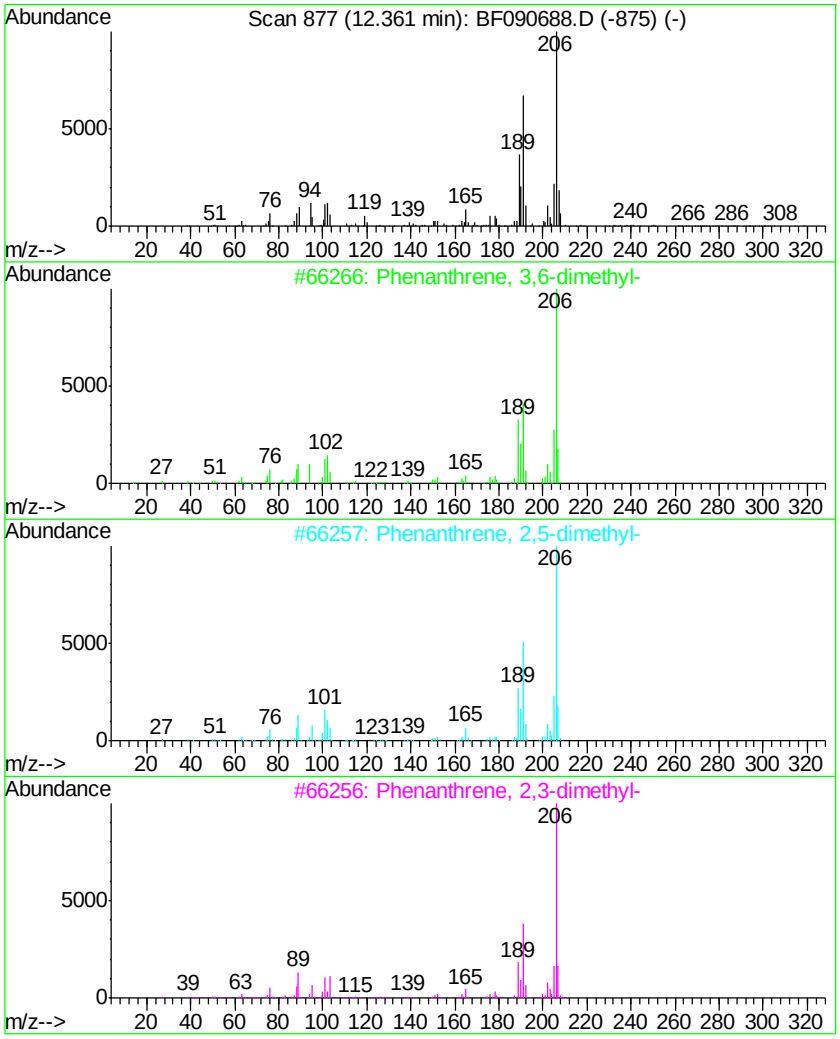
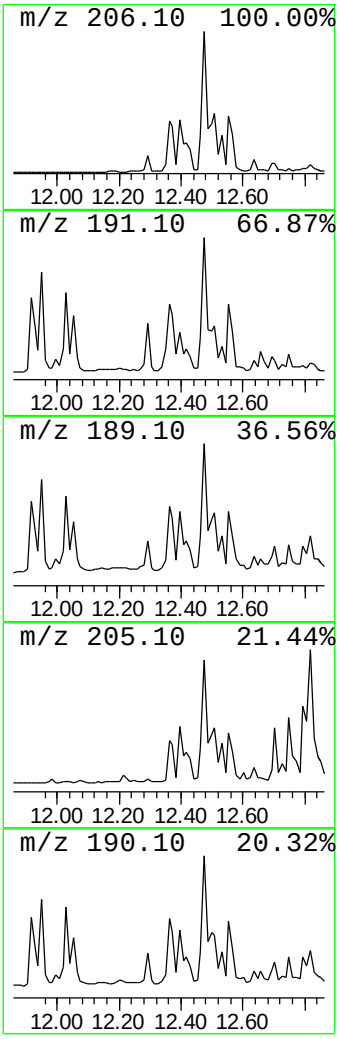
Peak Number 18 Phenanthrene, 3,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	12.02 ng	1139340	Phenanthrene-d10	11.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	98
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	92
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87





Library Search Compound Report

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Misc :
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ClientSampleId : FD-2

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

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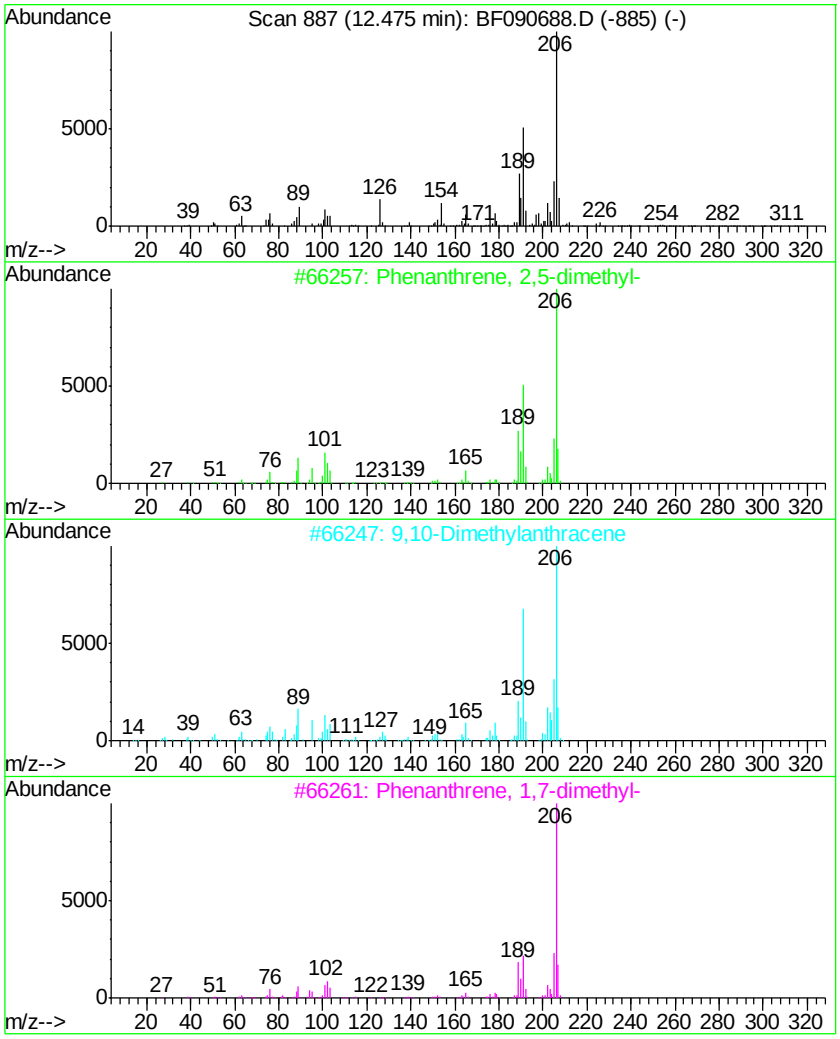
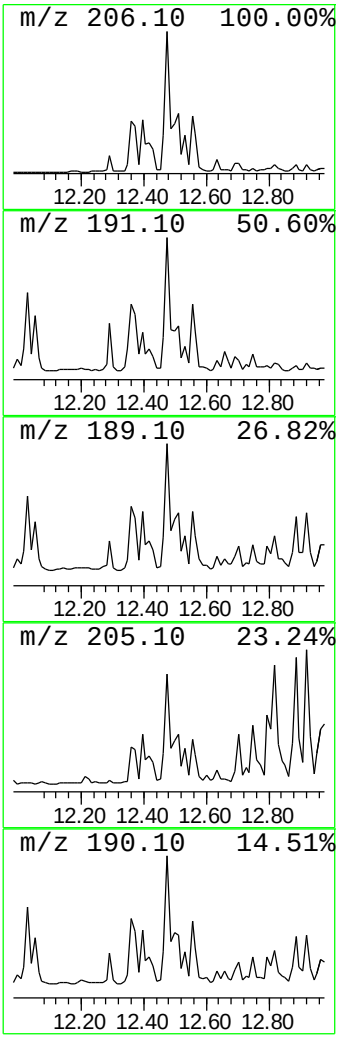
Peak Number 19 Phenanthrene, 2,5-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	32.90 ng	3117900	Phenanthrene-d10	11.41

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	90
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	81
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	76





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Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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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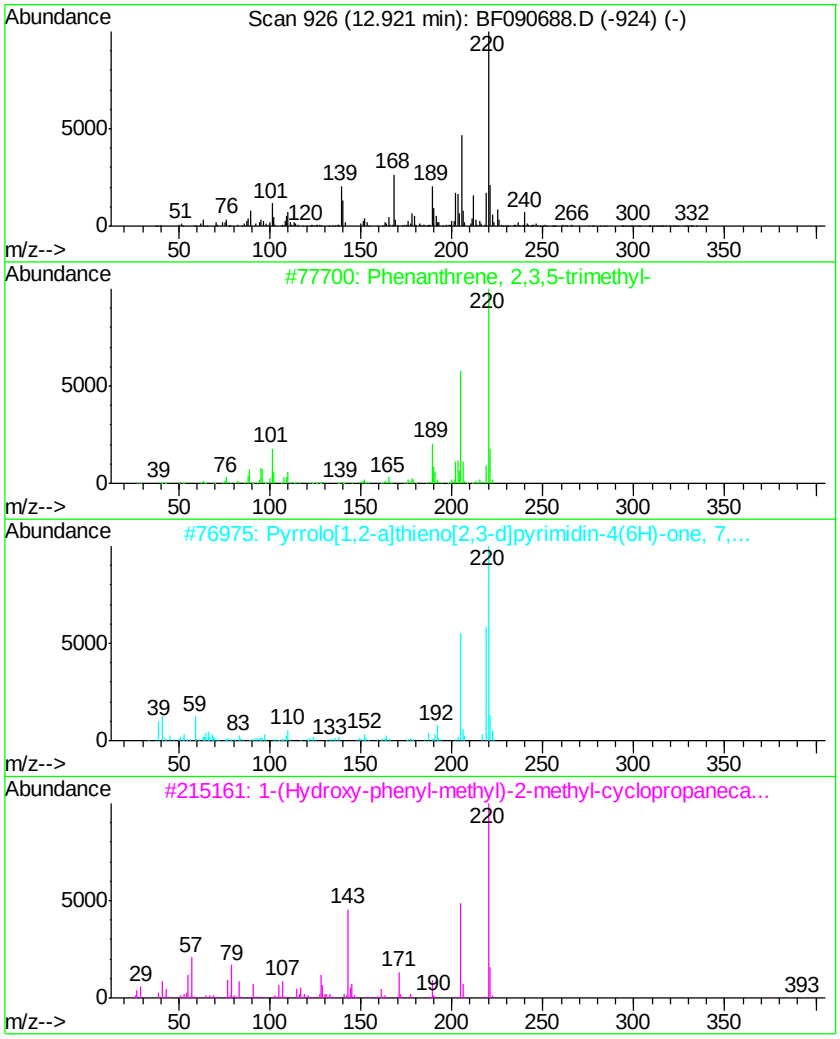
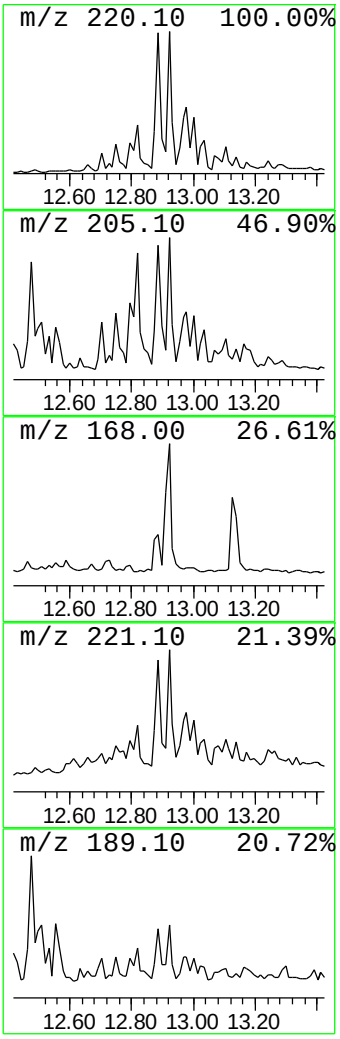
Peak Number 20 Phenanthrene, 2,3,5-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	13.58 ng	1251630	Chrysene-d12	14.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	64
2	Pyrrolo[1,2-a]thieno[2,3-d]pyrim...	220	C11H12N2OS	056929-61-4	55
3	1-(Hydroxy-phenyl-methyl)-2-meth...	408	C27H36O3	108546-86-7	50
4	1-(4-Methylphenyl)-4-phenylbuta-...	220	C17H16	037985-11-8	50
5	5-Acetyl-2-ethylsulfanyl-6-methy...	220	C11H12N2OS	303146-26-1	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF102016\
Data File : BF090688.D
Acq On : 20 Oct 2016 17:59
Operator : UM/SJ
Sample : H5318-03 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : FD-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.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
unknown6.65	6.65	13.6	ng	800994	1	6.87	1181100	20.0
Phthalic anhydride	8.93	6.1	ng	517037	2	8.17	1705770	20.0
unknown9.32	9.32	8.3	ng	871721	3	9.93	2102580	20.0
unknown9.79	9.79	8.8	ng	930851	3	9.93	2102580	20.0
Naphthalene, 2,3,...	10.25	9.9	ng	1043070	3	9.93	2102580	20.0
Naphthalene, 1,6,...	10.33	6.4	ng	669303	3	9.93	2102580	20.0
Tetradecane	10.84	19.7	ng	1868800	4	11.41	1895130	20.0
Naphthalene, 1-me...	10.92	10.7	ng	1016130	4	11.41	1895130	20.0
2,2'-Dimethylbiph...	11.06	6.6	ng	622090	4	11.41	1895130	20.0
Thieno[2,3-d]pyri...	11.53	10.4	ng	988897	4	11.41	1895130	20.0
Heneicosane	11.71	8.8	ng	836470	4	11.41	1895130	20.0
Dibenzothiophene,...	11.74	7.5	ng	707654	4	11.41	1895130	20.0
Anthracene, 2-met...	11.91	7.4	ng	705294	4	11.41	1895130	20.0
Eicosane	12.12	11.3	ng	1074460	4	11.41	1895130	20.0
2,7-Dimethyldiben...	12.15	6.3	ng	593955	4	11.41	1895130	20.0
unknown12.21	12.21	5.9	ng	558996	4	11.41	1895130	20.0
Phenanthrene, 3,6...	12.36	12.0	ng	1139340	4	11.41	1895130	20.0
Phenanthrene, 2,5...	12.48	32.9	ng	3117900	4	11.41	1895130	20.0
Phenanthrene, 2,3...	12.92	13.6	ng	1251630	5	14.06	1843580	20.0