LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-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-BF103015.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	5.047	255	259	261	rBV	1357957	1826930	43.48%	4.024%
2	5.470	293	296	298	rBV	3689184	3914145	93.15%	8.622%
3	6.499	383	386	388	rBV	3664927	4202157	100.00%	9.256%
4	6.636	395	398	400	rBV	3424284	4006003	95.33%	8.824%
5	6.864	415	418	420	rBV	678592	559542	13.32%	1.233%
6	7.024	429	432	434	rVB	3074915	2881038	68.56%	6.346%
7	7.424	464	467	469	rBV	2608598	2399070	57.09%	5.285%
8	8.145	528	530	532	rBV	528930	647700	15.41%	1.427%
9	9.230	622	625	627	rBV	4410510	3819893	90.90%	8.414%
10	9.619	657	659	661	rBV	1048261	849135	20.21%	1.870%
11	9.905	681	684	686	rBV	916639	801685	19.08%	1.766%
12	9.939	686	687	689	rVB	64440	46308	1.10%	0.102%
13	10.110	700	702	704	rBV	48675	50000	1.19%	0.110%
14	10.316	718	720	724	rVB3	62341	93885	2.23%	0.207%
15	10.453	730	732	733	rVB	89677	111100	2.64%	0.245%
16	10.693	750	753	755	rBV	2384675	2609791	62.11%	5.749%
17	10.819	762	764	768	rBV	58599	83674	1.99%	0.184%
18	11.276	799	804	808	rBV2	83750	212344	5.05%	0.468%
19	11.413	811	816	817	rVV2	1036301	1840583	43.80%	4.054%
20	11.459	817	820	821	rVV	263920	241263	5.74%	0.531%
21	11.493	821	823	825	rVB	78928	82969	1.97%	0.183%
22	11.608	831	833	836	rBV2	91393	110953	2.64%	0.244%
23	11.699	838	841	844	rVB2	33379	69773	1.66%	0.154%
24	11.882	855	857	859	rBV	76692	119990	2.86%	0.264%
25	11.916	859	860	862	rVV	256914	279952	6.66%	0.617%
26	11.996	865	867	871	rVB2	338699	383576	9.13%	0.845%
27	12.111	871	877	881	rBV3	64341	160217	3.81%	0.353%
28	12.202	881	885	887	rVB2	151154	236189	5.62%	0.520%
29	12.385	898	901	902	rBV2	39457	53503	1.27%	0.118%
30	12.442	903	906	907	rBV2	53247	70371	1.67%	0.155%
31	12.476	907	909	911	rBV2	28542	56397	1.34%	0.124%
32	12.522	911	913	915	rVB3	30291	46023	1.10%	0.101%
33	12.602	917	920	922	rVB	1647631	1827115	43.48%	4.025%
34	12.648	922	924	928	rBV2	51206	88417	2.10%	0.195%

LSC Area Percent Report

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Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-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-BF103015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.705	928	929	931	rBV2	62405	105343	2.51%	0.232%
36	12.819	936	939	942	rBV2	1010823	1479185	35.20%	3.258%
37	12.876	942	944	948	rVB2	52923	76797	1.83%	0.169%
38	12.945	948	950	951	rBV	94401	140453	3.34%	0.309%
39	12.968	951	952	955	rVB	1736862	2258428	53.74%	4.975%
40	13.048	955	959	960	rBV2	71370	94413	2.25%	0.208%
41	13.151	964	968	970	rVB	232982	279179	6.64%	0.615%
42	13.219	972	974	975	rBV	278142	223786	5.33%	0.493%
43	13.254	975	977	978	rBV2	97252	87703	2.09%	0.193%
44	13.345	983	985	987	rVV	55069	61961	1.47%	0.136%
45	13.379	987	988	990	rBV2	55532	60073	1.43%	0.132%
46	13.425	990	992	993	rVB	63803	59504	1.42%	0.131%
47	13.654	1010	1012	1015	rVB2	65271	88633	2.11%	0.195%
48	13.768	1019	1022	1023	rBV2	157229	203504	4.84%	0.448%
49	14.019	1041	1044	1045	rBV2	1057695	1357553	32.31%	2.990%
50	14.122	1051	1053	1055	rBV2	92944	139994	3.33%	0.308%
51	14.408	1076	1078	1080	rVV	81650	101794	2.42%	0.224%
52	14.442	1080	1081	1083	rVB	95273	96855	2.30%	0.213%
53	15.048	1132	1134	1139	rVB	611049	1189712	28.31%	2.621%
54	15.345	1157	1160	1162	rVB	412873	549494	13.08%	1.210%
55	15.402	1162	1165	1168	rVV	393991	490178	11.66%	1.080%
56	15.460	1168	1170	1177	rVB2	359038	641817	15.27%	1.414%
57	16.865	1290	1293	1297	rVB2	219387	447372	10.65%	0.985%
58	17.288	1327	1330	1334	rVB	176579	382230	9.10%	0.842%

Sum of corrected areas: 45397652

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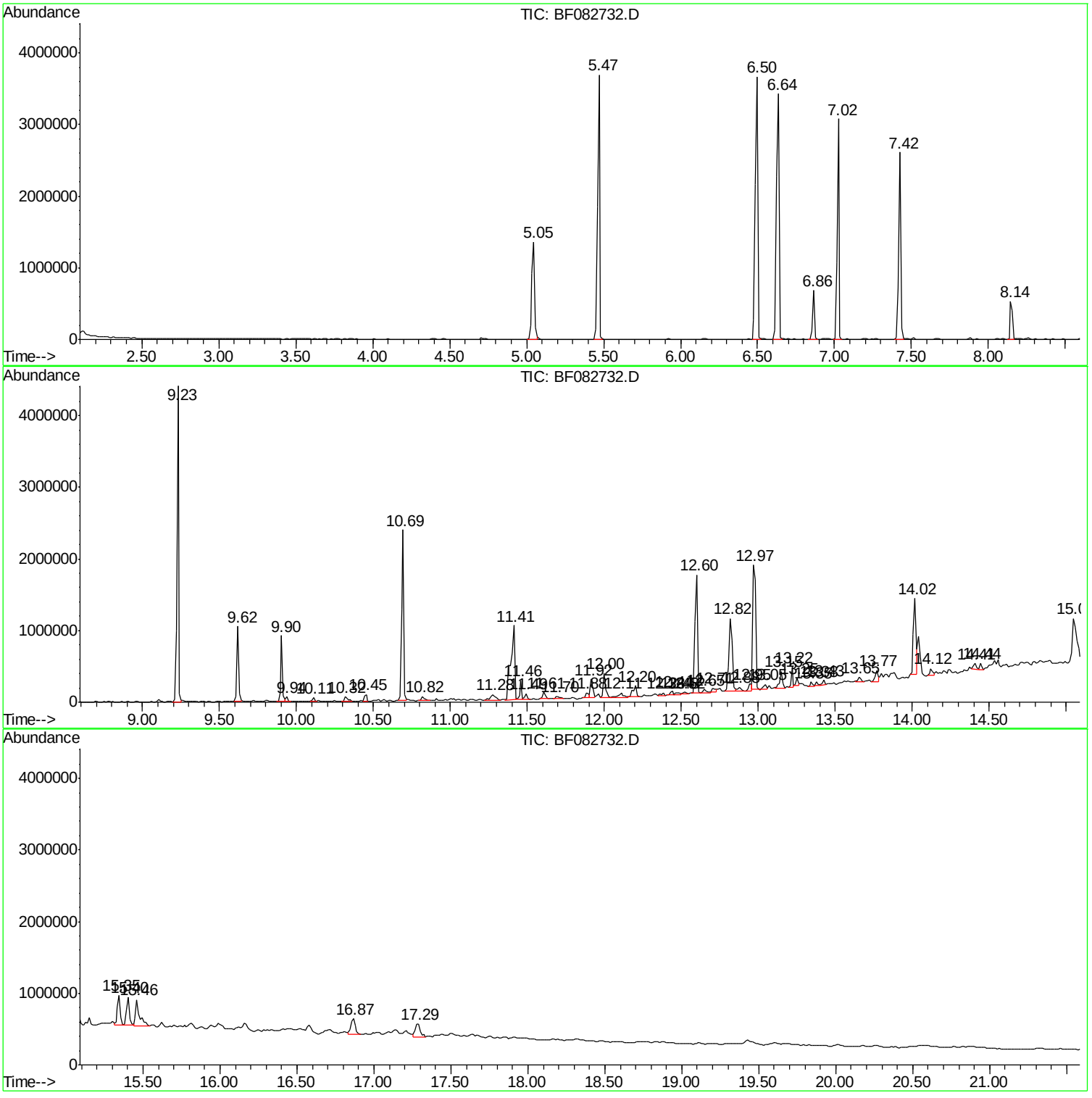
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

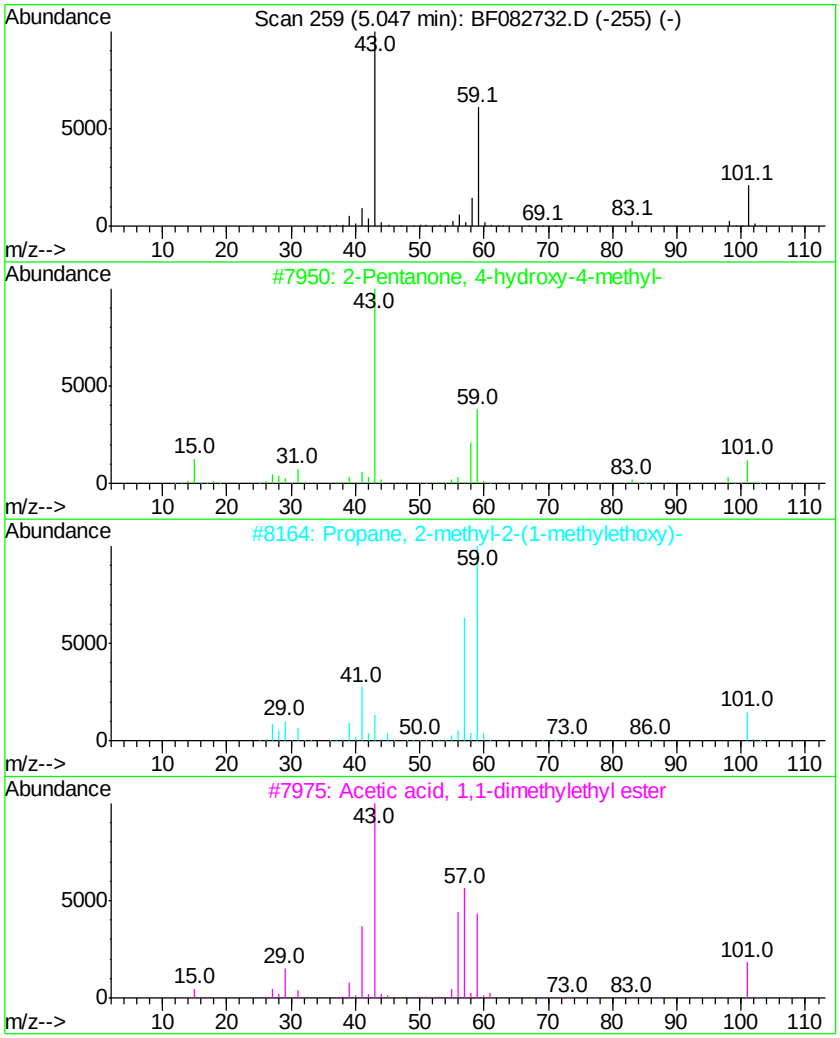
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

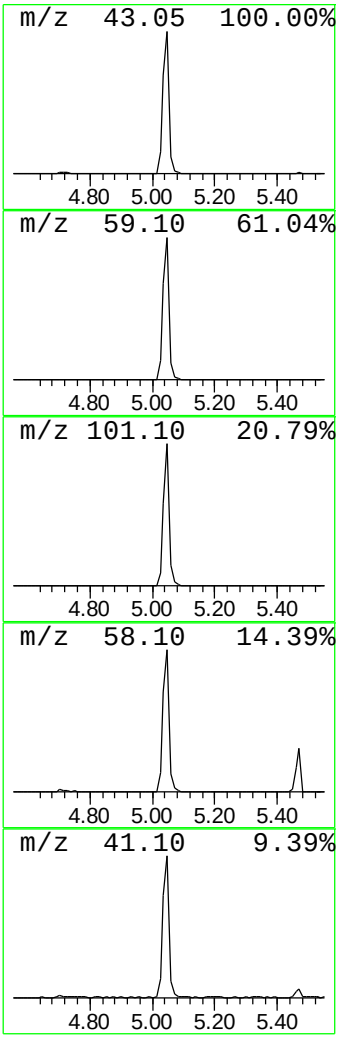
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.05	65.30 ng	1826930	1,4-Dichlorobenzene-d4	6.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	53
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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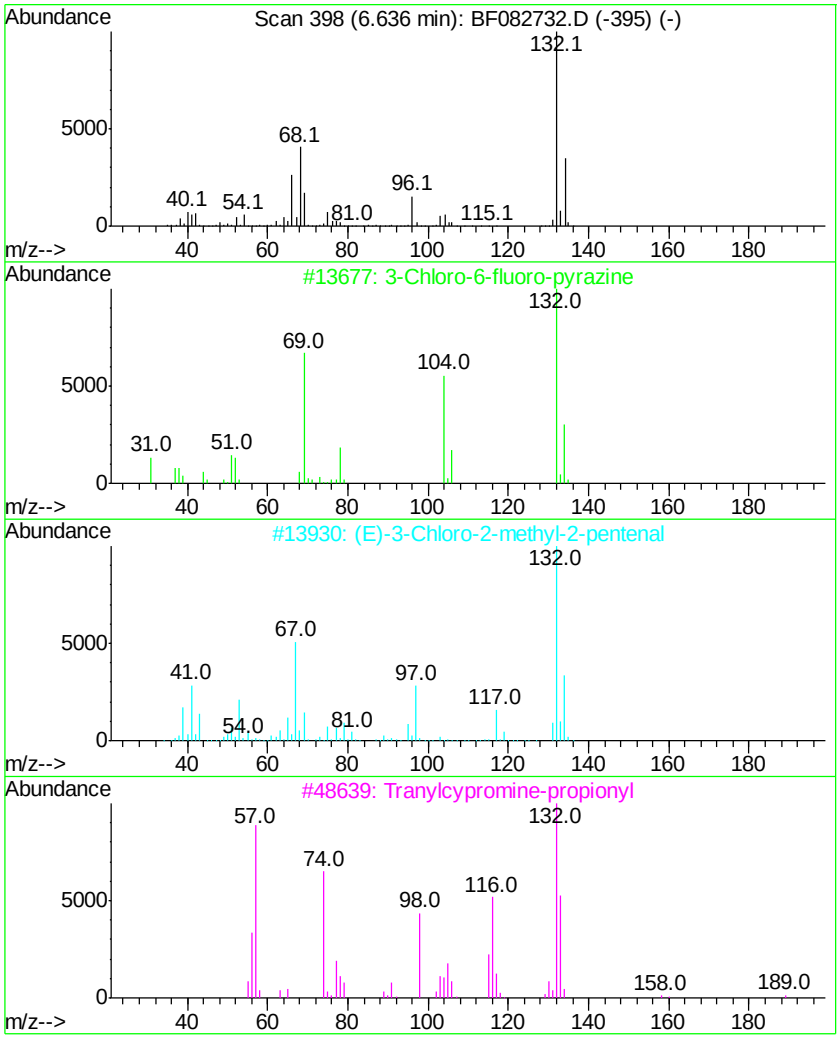
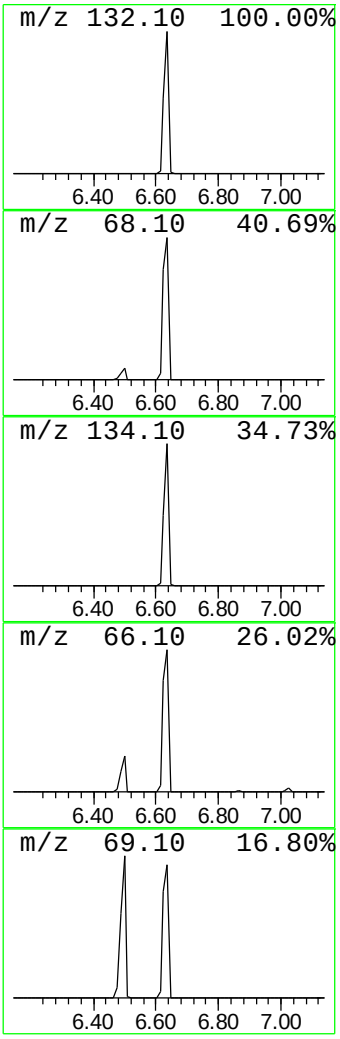
Peak Number 2 unknown6.64 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.64	143.19 ng	4006000	1,4-Dichlorobenzene-d4	6.86

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	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	Benzene, 1,2,4-trifluoro-	132	C6H3F3	000367-23-7	9
5	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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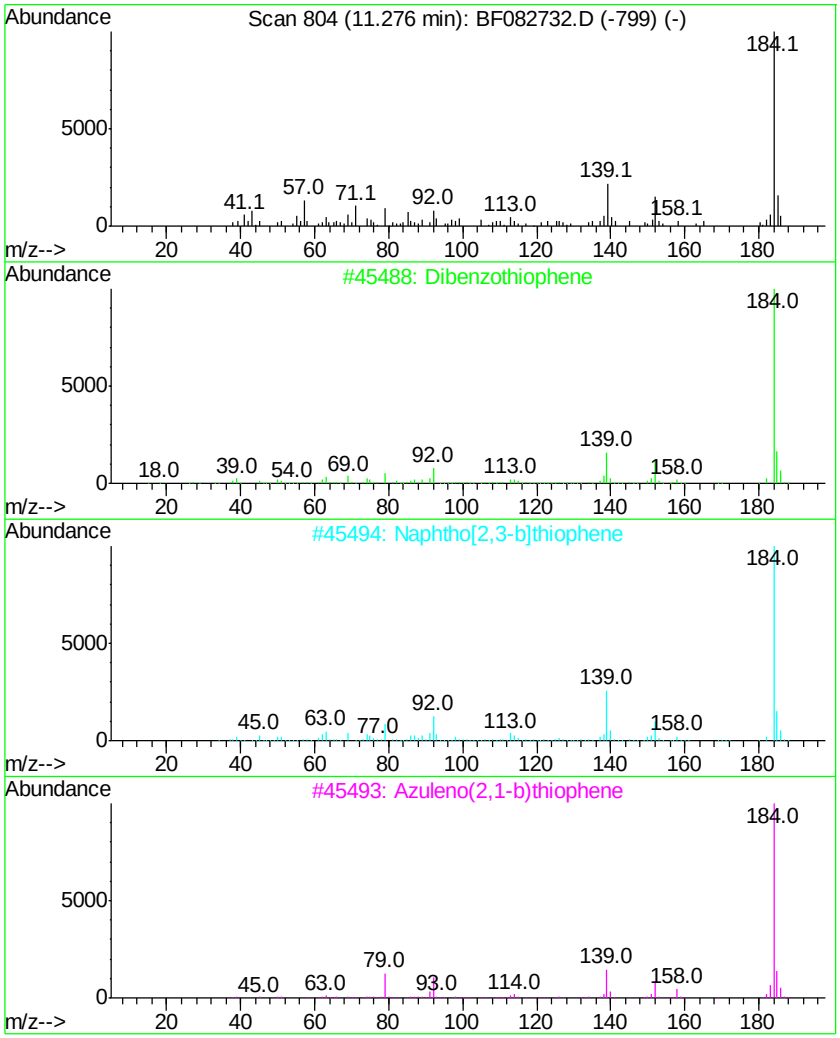
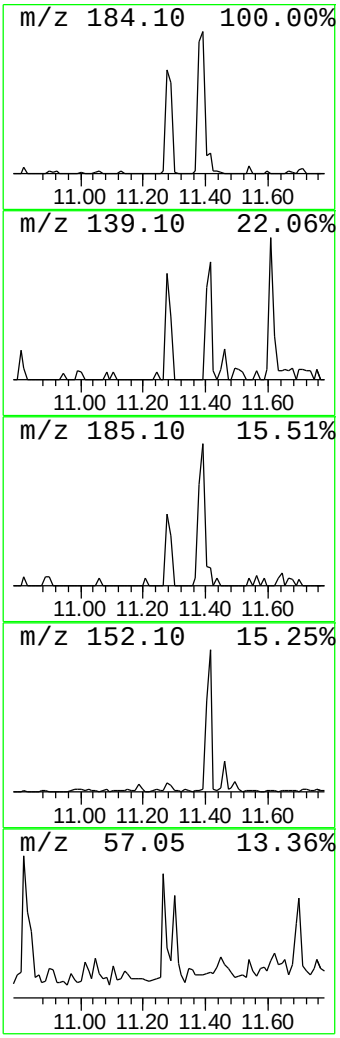
Peak Number 5 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	2.31 ng	212344	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	64
5	1,4-Benzenediamine, N-phenyl-	184	C12H12N2	000101-54-2	47





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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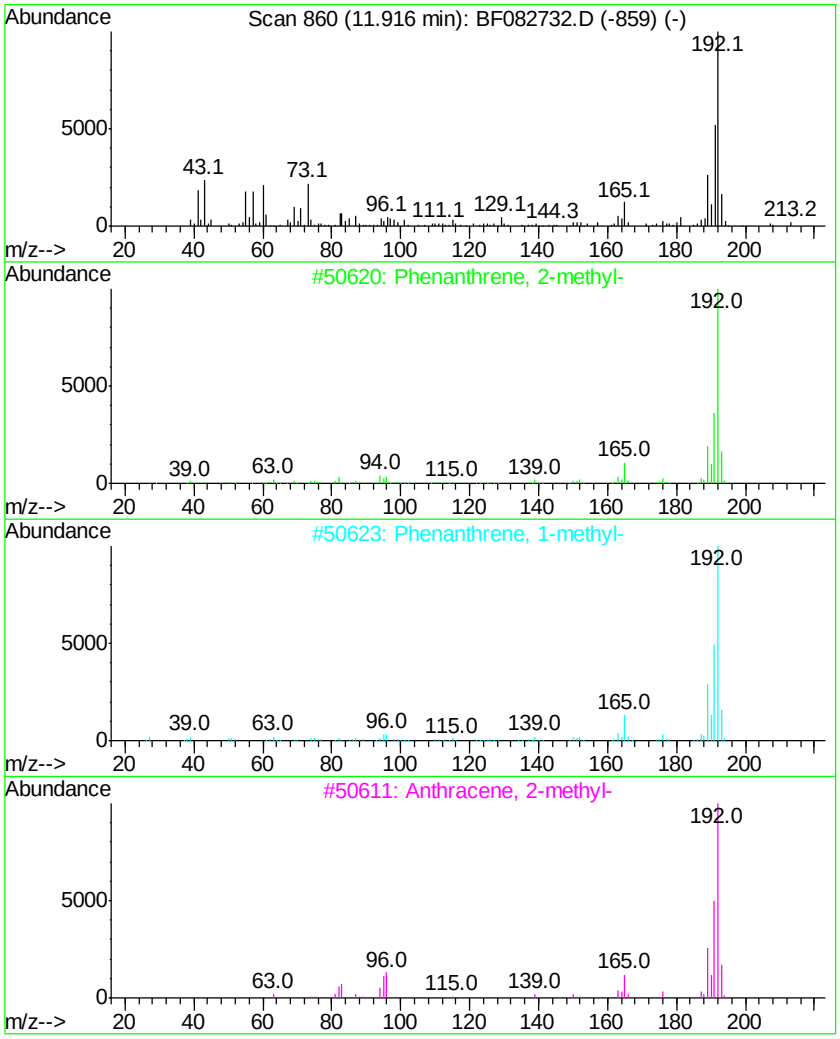
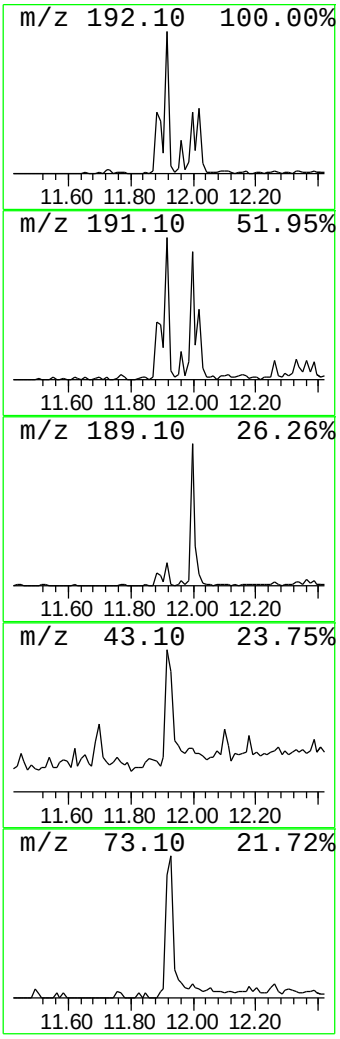
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	3.04 ng	279952	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	89
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	86





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Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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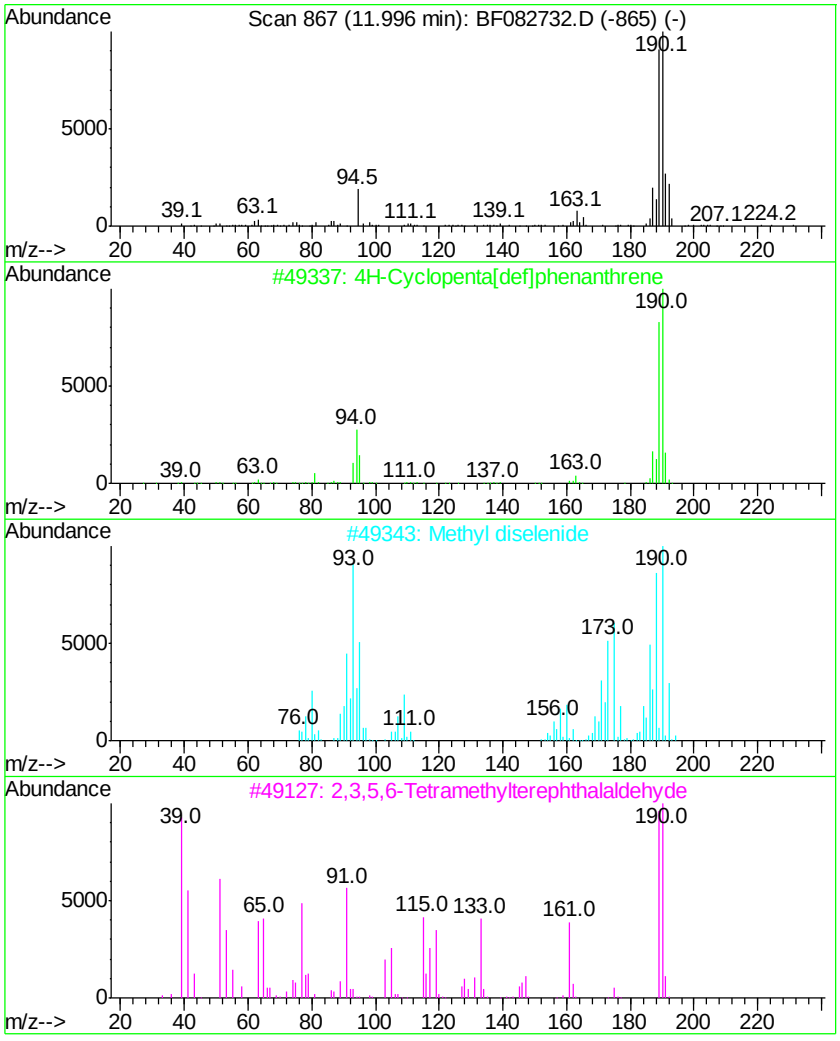
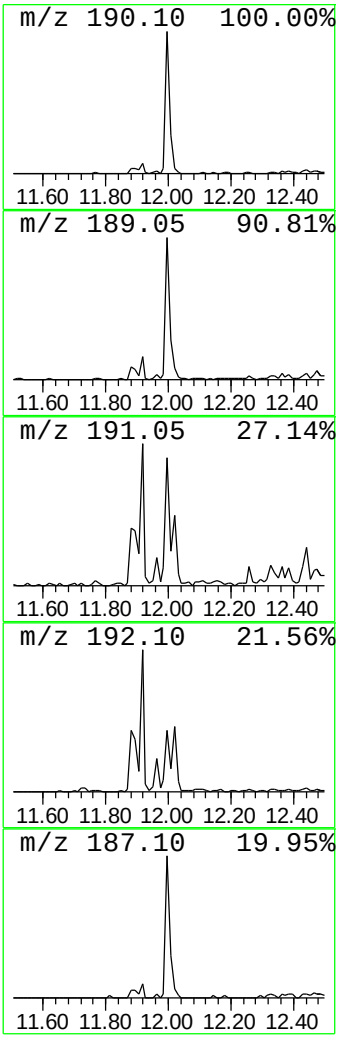
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	4.17 ng	383576	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40





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Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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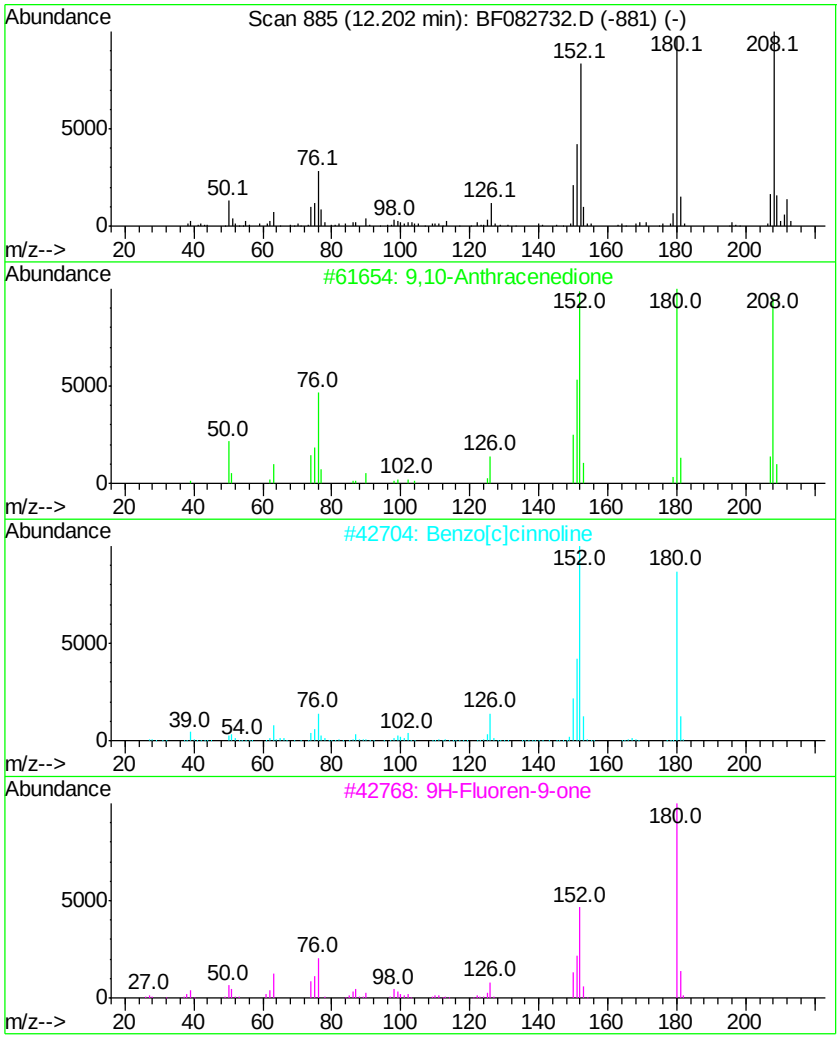
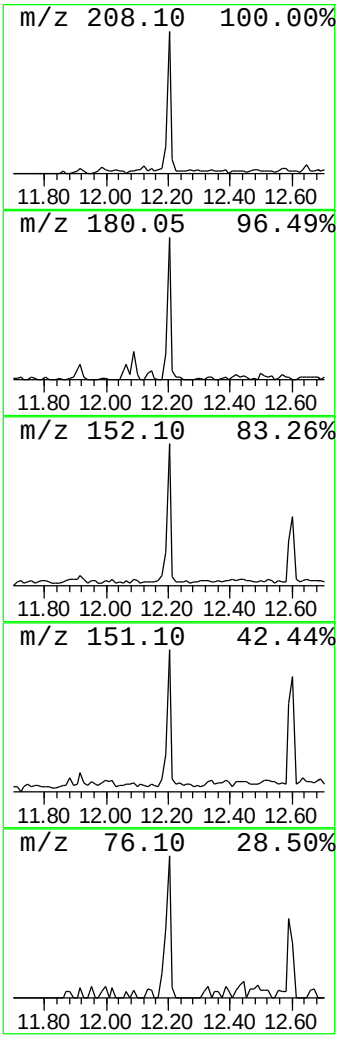
Peak Number 8 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	2.57 ng	236189	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





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Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

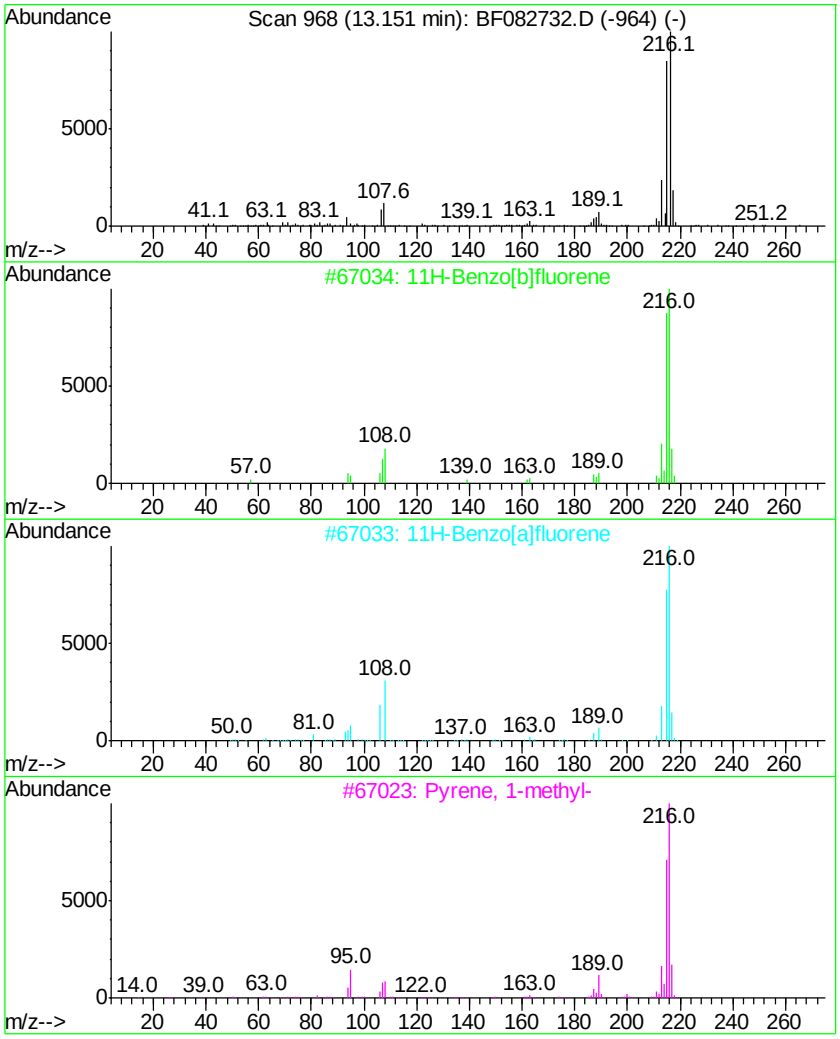
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

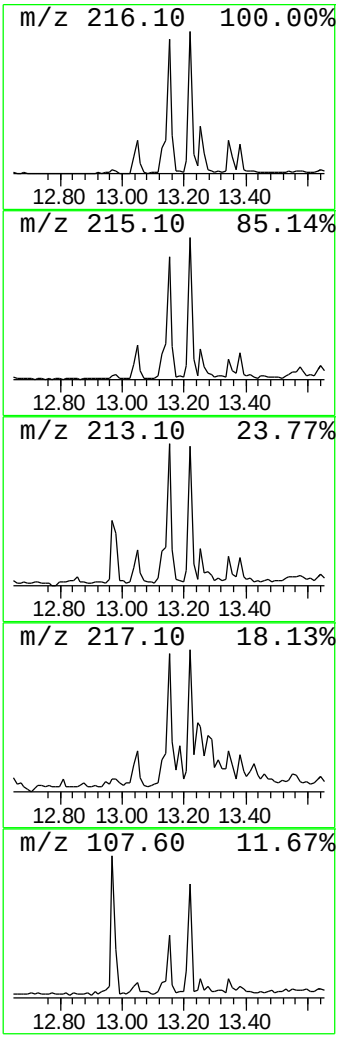
****

Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	4.11 ng	279179	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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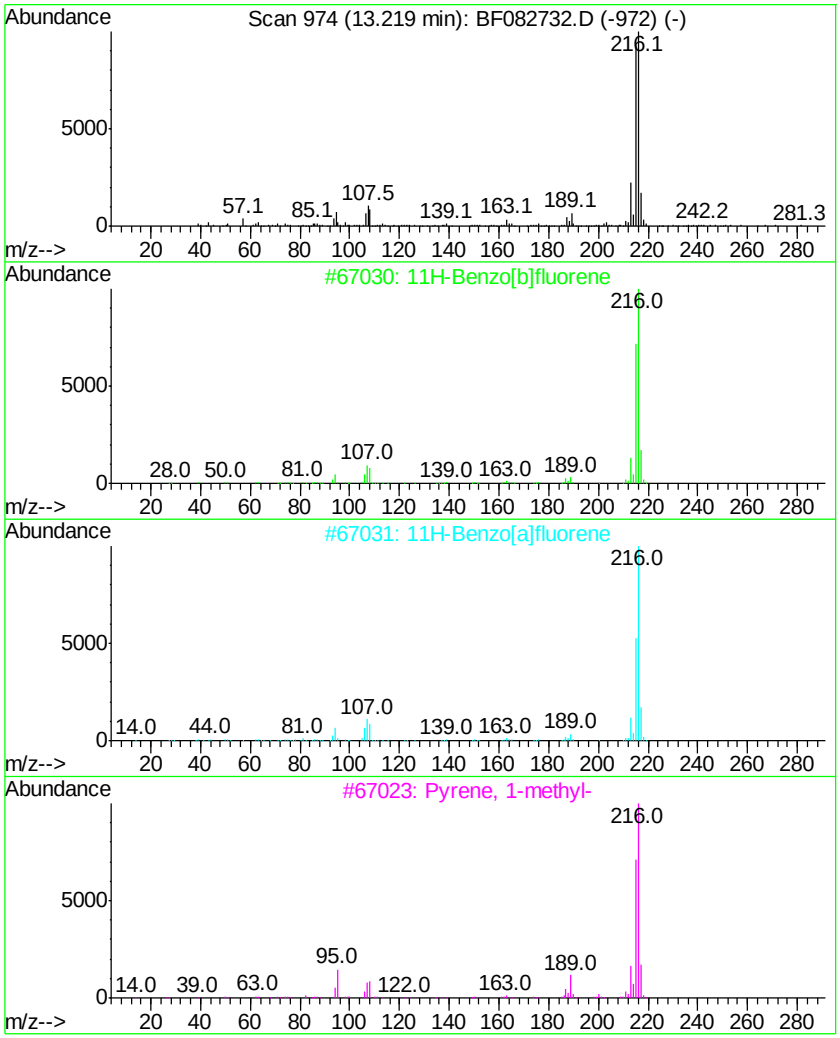
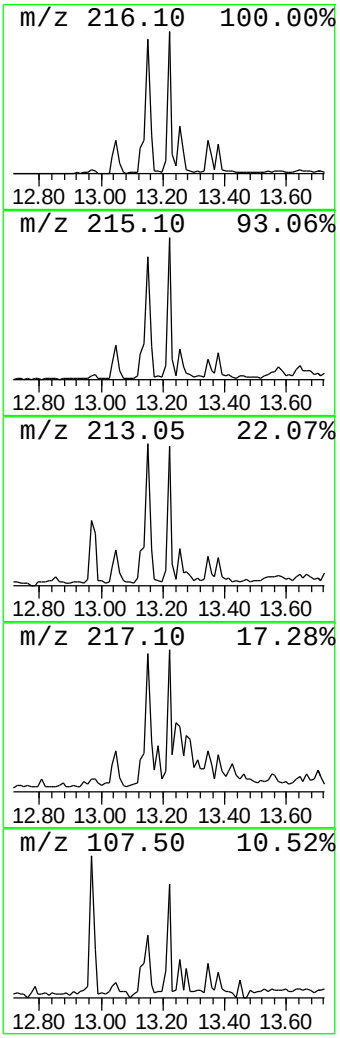
Peak Number 10 11H-Benzo[a]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	3.30 ng	223786	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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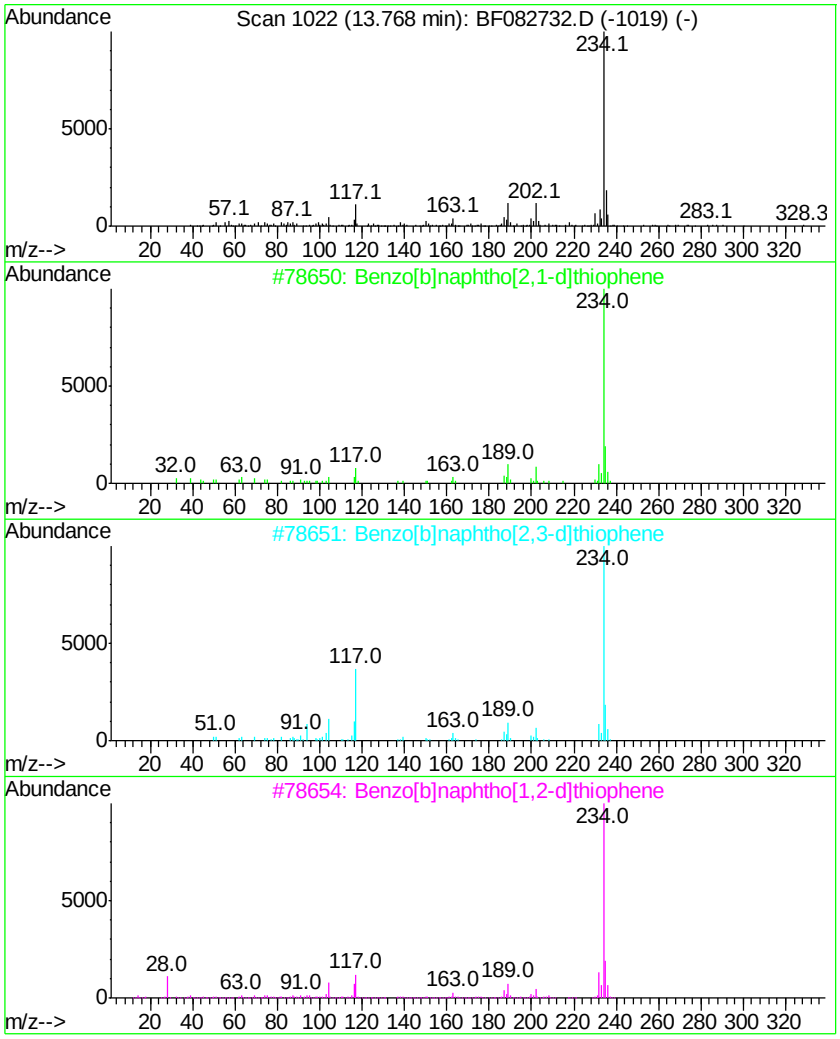
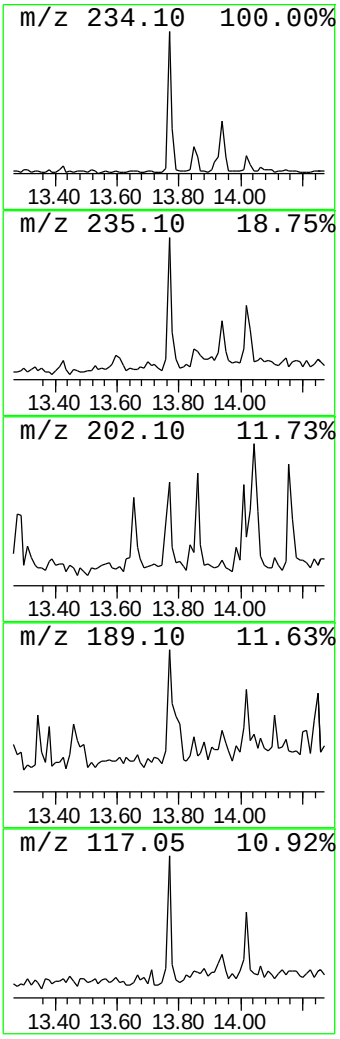
Peak Number 11 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	3.00 ng	203504	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	87
4	Imidazole, 4-pentafluorophenyl-	234	C9H3F5N2	081769-58-6	53
5	2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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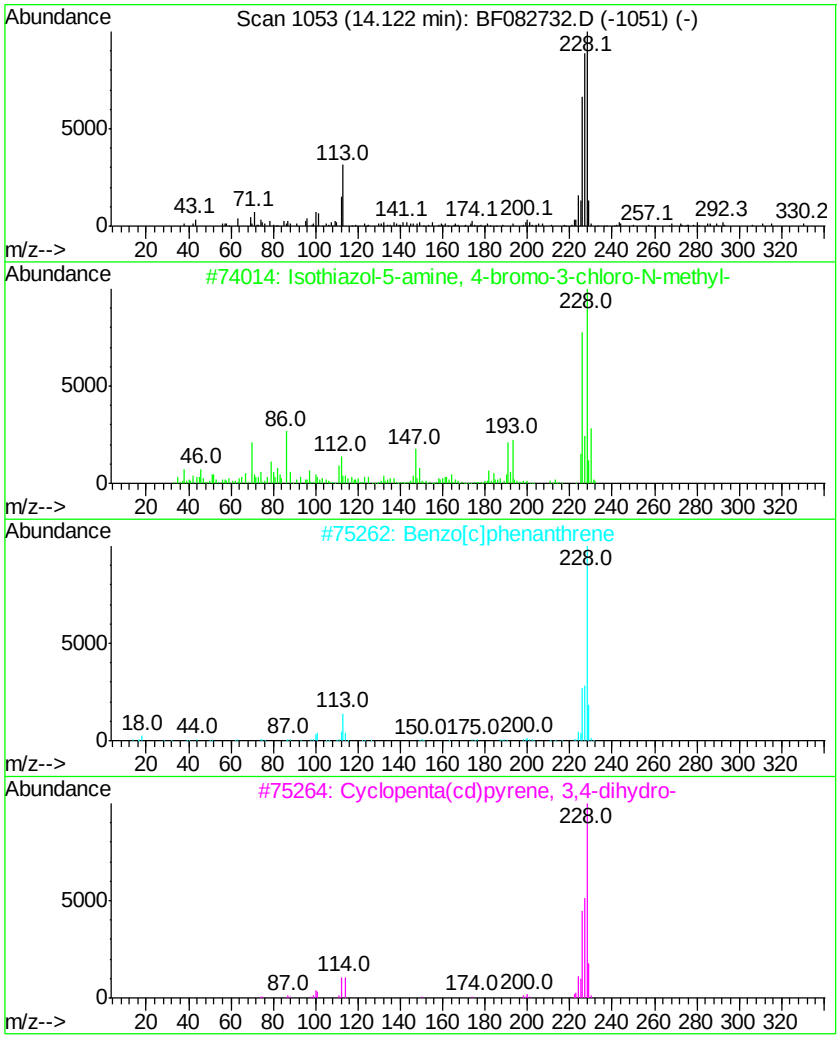
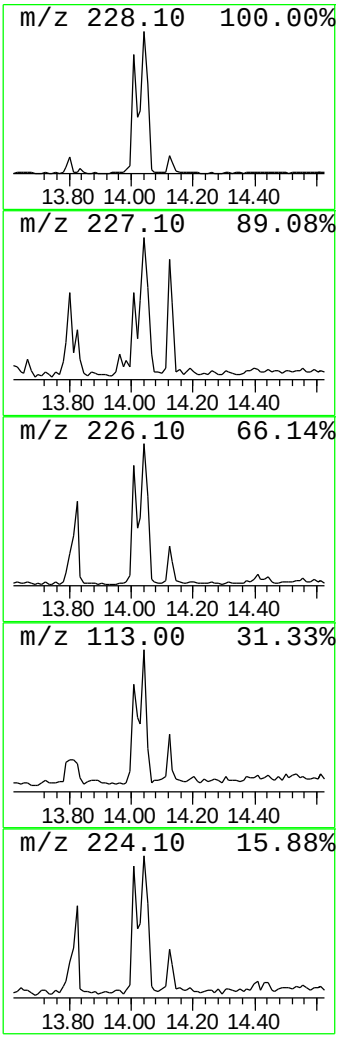
Peak Number 12 unknown14.12 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.12	2.06 ng	139994	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	49
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
3	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	43
4	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	38
5	Triphenylene	228	C18H12	000217-59-4	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110615\
Data File : BF082732.D
Acq On : 5 Nov 2015 16:35
Operator : UM/IZ
Sample : G4261-08
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF103015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	5.05	65.3	ng	1826930	1	6.86	559542	20.0
unknown6.64	6.64	143.2	ng	4006000	1	6.86	559542	20.0
Dibenzothiophene	11.28	2.3	ng	212344	4	11.39	1840580	20.0
Phenanthrene, 2-m...	11.92	3.0	ng	279952	4	11.39	1840580	20.0
4H-Cyclopenta[def...	12.00	4.2	ng	383576	4	11.39	1840580	20.0
9,10-Anthracenedione	12.20	2.6	ng	236189	4	11.39	1840580	20.0
11H-Benzo[b]fluorene	13.15	4.1	ng	279179	5	14.02	1357550	20.0
11H-Benzo[a]fluorene	13.22	3.3	ng	223786	5	14.02	1357550	20.0
Benzo[b]naphtho[2...	13.77	3.0	ng	203504	5	14.02	1357550	20.0
unknown14.12	14.12	2.1	ng	139994	5	14.02	1357550	20.0