LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092247.D
Acq On : 13 Jan 2017 14:14
Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

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-BF122116.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	3.981	190	192	204	rBV	30392	78307	1.18%	0.125%
2	4.724	254	257	268	rBV	1882147	3408140	51.53%	5.455%
3	5.193	295	298	300	rBV	5069287	6613486	100.00%	10.586%
4	6.256	388	391	394	rBV	4509282	5783151	87.44%	9.257%
5	6.359	398	400	403	rVV	5071913	5962425	90.16%	9.544%
6	6.587	418	420	422	rBV	1302547	1221511	18.47%	1.955%
7	6.747	431	434	436	rBV	4232604	4836783	73.14%	7.742%
8	7.159	467	470	473	rBV	2909095	3380421	51.11%	5.411%
9	7.307	481	483	488	rBV	50920	82459	1.25%	0.132%
10	7.867	530	532	535	rBV	1047266	1375537	20.80%	2.202%
11	8.953	624	627	630	rBV	5040928	5397431	81.61%	8.639%
12	9.353	660	662	664	rBV	1234874	1022196	15.46%	1.636%
13	9.616	683	685	687	rBV	1279302	1396453	21.12%	2.235%
14	9.650	687	688	691	rVB	89306	73129	1.11%	0.117%
15	10.073	719	725	726	rBV	102659	139282	2.11%	0.223%
16	10.165	731	733	736	rVB	68334	68582	1.04%	0.110%
17	10.416	752	755	757	rBV	2325115	3164656	47.85%	5.066%
18	10.542	764	766	770	rBV	133671	171192	2.59%	0.274%
19	10.988	803	805	810	rVB2	109210	154125	2.33%	0.247%
20	11.091	812	814	819	rVV2	858472	1816799	27.47%	2.908%
21	11.171	819	821	823	rVB	184367	168070	2.54%	0.269%
22	11.342	832	836	840	rBV3	185580	348038	5.26%	0.557%
23	11.411	840	842	848	rVB2	55670	96594	1.46%	0.155%
24	11.594	852	858	860	rBV	125475	220809	3.34%	0.353%
25	11.628	860	861	862	rVV	159077	127650	1.93%	0.204%
26	11.651	862	863	866	rVV2	241992	305274	4.62%	0.489%
27	11.708	866	868	873	rVB2	196873	312525	4.73%	0.500%
28	11.891	880	884	886	rBV	82497	118565	1.79%	0.190%
29	12.142	904	906	908	rBV	117041	161135	2.44%	0.258%
30	12.176	908	909	913	rVV2	75056	148754	2.25%	0.238%
31	12.234	913	914	918	rVB3	83339	92247	1.39%	0.148%
32	12.302	918	920	922	rBV	958759	875175	13.23%	1.401%
33	12.451	930	933	935	rBV2	62718	121136	1.83%	0.194%
34	12.531	937	940	942	rBV	908793	1093700	16.54%	1.751%

LSC Area Percent Report

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Acq On : 13 Jan 2017 14:14
Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

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-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.576	942	944	947	rVB2	86812	162764	2.46%	0.261%
36	12.691	951	954	956	rVB	2855533	3947865	59.69%	6.319%
37	12.748	956	959	961	rBV2	67384	100702	1.52%	0.161%
38	12.862	965	969	971	rVB	132744	242102	3.66%	0.388%
39	12.931	971	975	976	rBV	141424	183150	2.77%	0.293%
40	12.965	976	978	982	rVB	122997	144801	2.19%	0.232%
41	13.057	984	986	987	rVB	80266	85418	1.29%	0.137%
42	13.079	987	988	991	rBV	71857	81665	1.23%	0.131%
43	13.171	994	996	999	rVB	139348	161109	2.44%	0.258%
44	13.228	999	1001	1002	rBV	112151	116785	1.77%	0.187%
45	13.274	1002	1005	1009	rVB2	83830	158855	2.40%	0.254%
46	13.365	1012	1013	1017	rVB	80797	98791	1.49%	0.158%
47	13.479	1020	1023	1026	rBV2	90260	219888	3.32%	0.352%
48	13.594	1030	1033	1041	rVB3	177867	427174	6.46%	0.684%
49	13.719	1041	1044	1049	rBV2	1036492	1946551	29.43%	3.116%
50	13.822	1051	1053	1055	rBV2	43194	77783	1.18%	0.125%
51	13.879	1055	1058	1060	rBV2	34999	79016	1.19%	0.126%
52	14.108	1076	1078	1080	rVB	77820	122094	1.85%	0.195%
53	14.200	1083	1086	1088	rVV4	59249	130892	1.98%	0.210%
54	14.234	1088	1089	1093	rVV	80375	120882	1.83%	0.193%
55	14.440	1103	1107	1110	rBV3	33268	109379	1.65%	0.175%
56	14.520	1110	1114	1116	rBV3	50450	119519	1.81%	0.191%
57	14.577	1117	1119	1123	rVB2	36965	75575	1.14%	0.121%
58	14.725	1129	1132	1136	rBV	362239	761370	11.51%	1.219%
59	14.805	1137	1139	1141	rVB2	73387	103619	1.57%	0.166%
60	14.977	1152	1154	1157	rVB	259430	310219	4.69%	0.497%
61	15.034	1157	1159	1161	rBV	322543	391353	5.92%	0.626%
62	15.080	1161	1163	1166	rBV	704799	1035284	15.65%	1.657%
63	16.325	1269	1272	1275	rBV	137022	241275	3.65%	0.386%
64	16.691	1301	1304	1311	rVB	107181	214801	3.25%	0.344%
65	16.897	1319	1322	1325	rBV	31285	70123	1.06%	0.112%
66	18.577	1465	1469	1476	rVB2	31155	97658	1.48%	0.156%

Sum of corrected areas: 62474199

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Operator : UM/SJ
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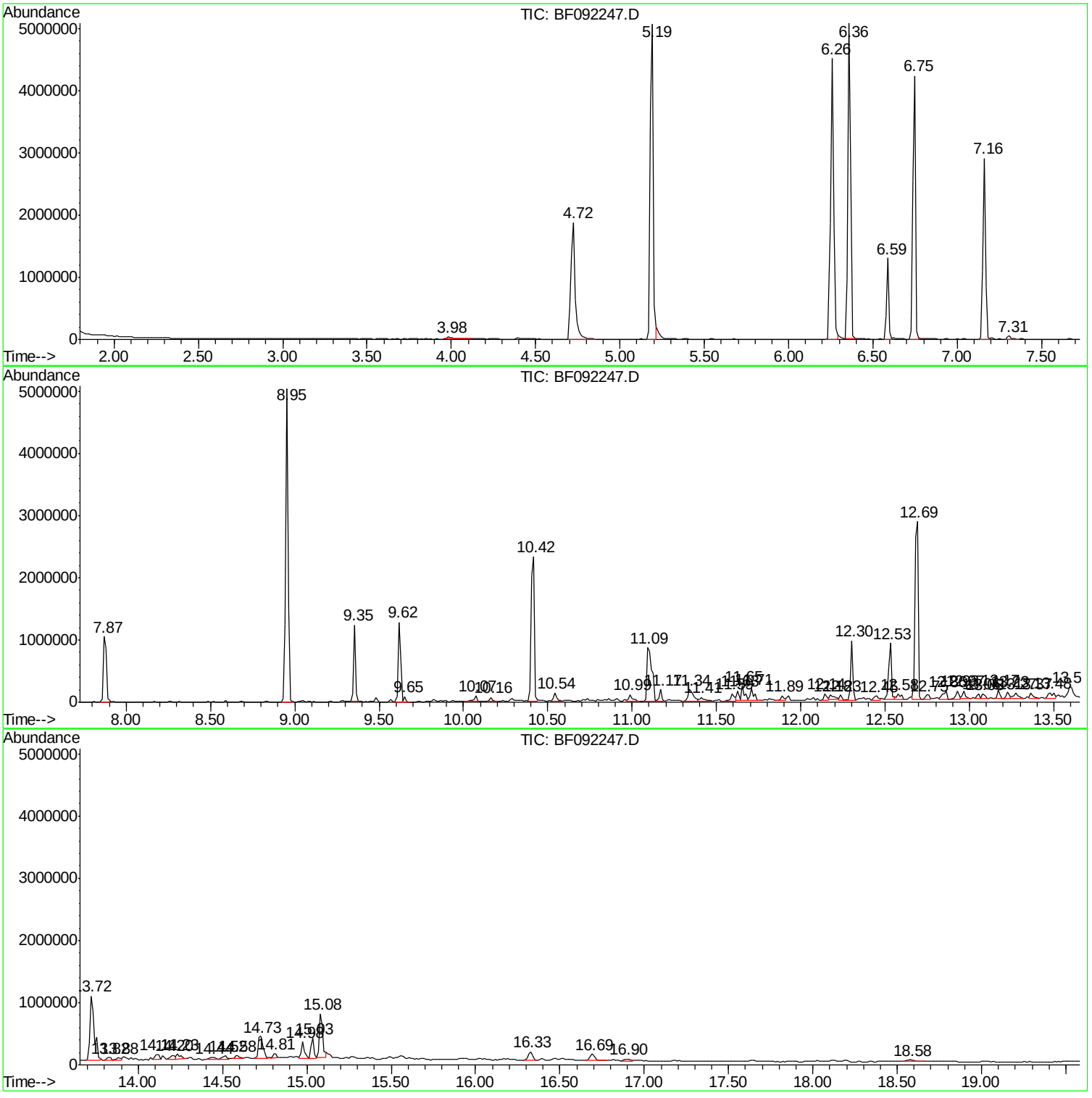
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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\BF011317\
Data File : BF092247.D
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Operator : UM/SJ
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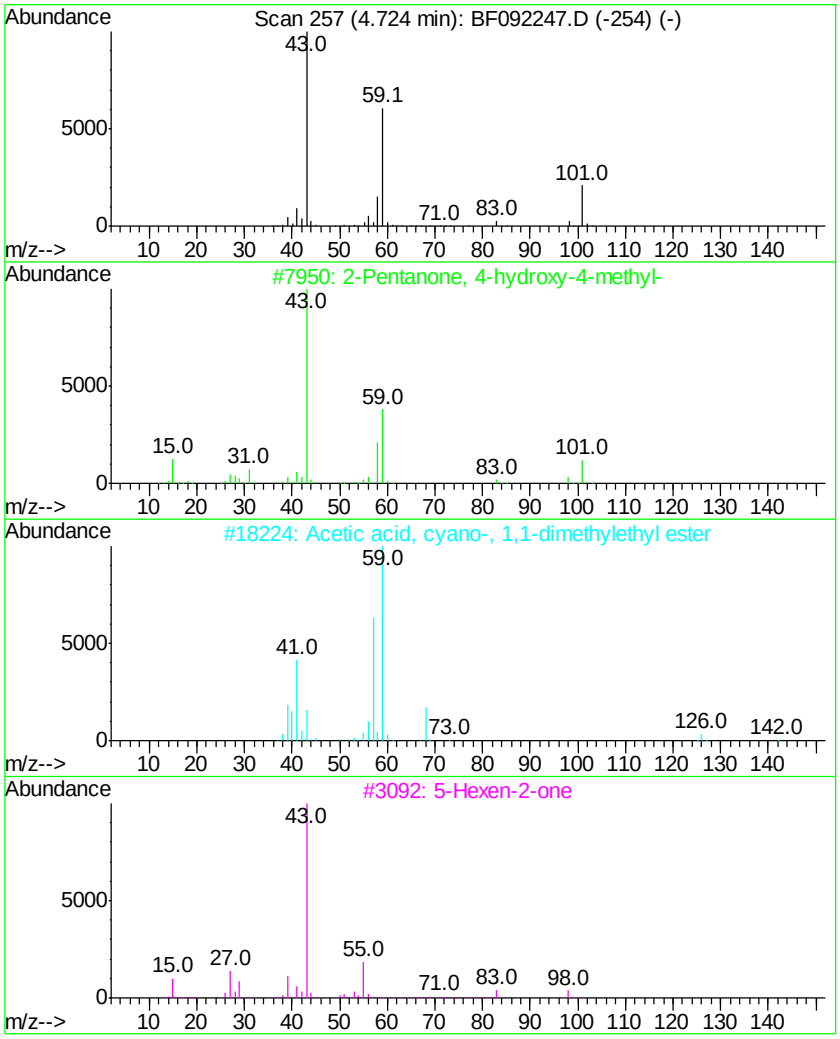
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

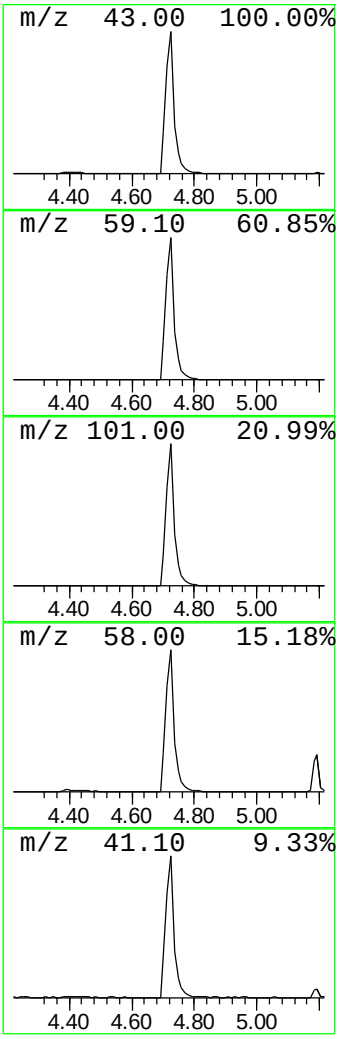
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.72	55.80 ng	3408140	1,4-Dichlorobenzene-d4	6.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	5-Hexen-2-one	98	C6H10O	000109-49-9	9
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092247.D
Acq On : 13 Jan 2017 14:14
Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

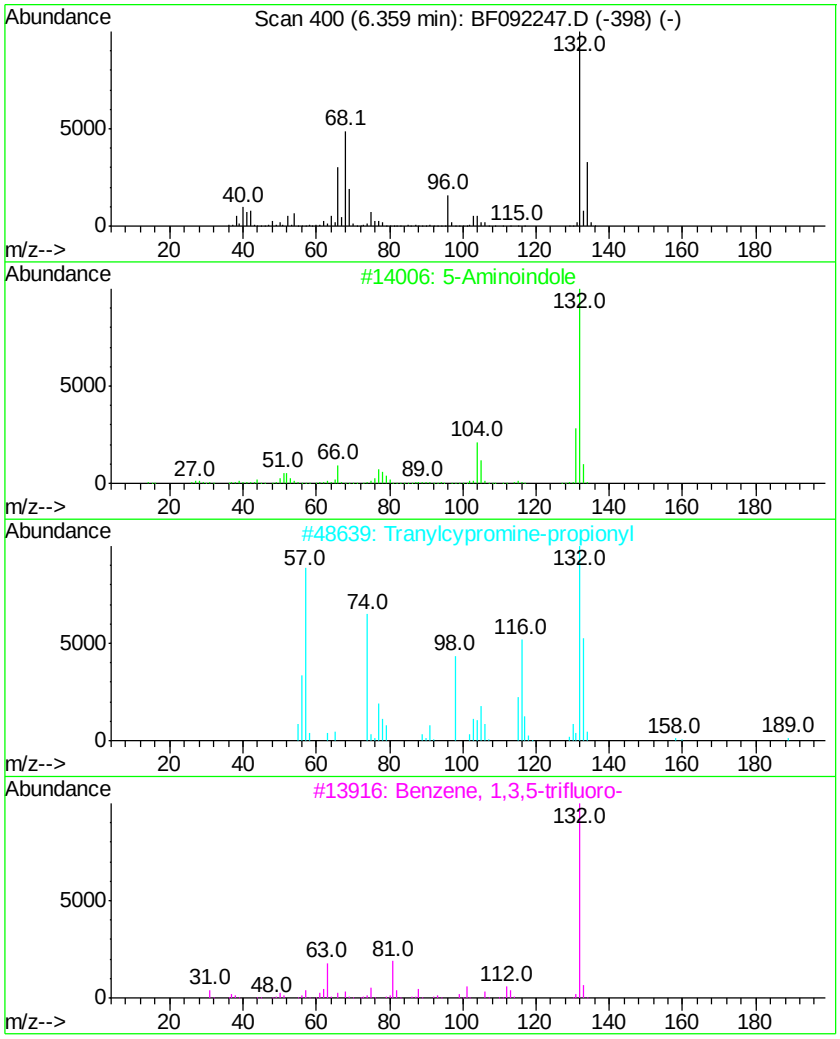
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

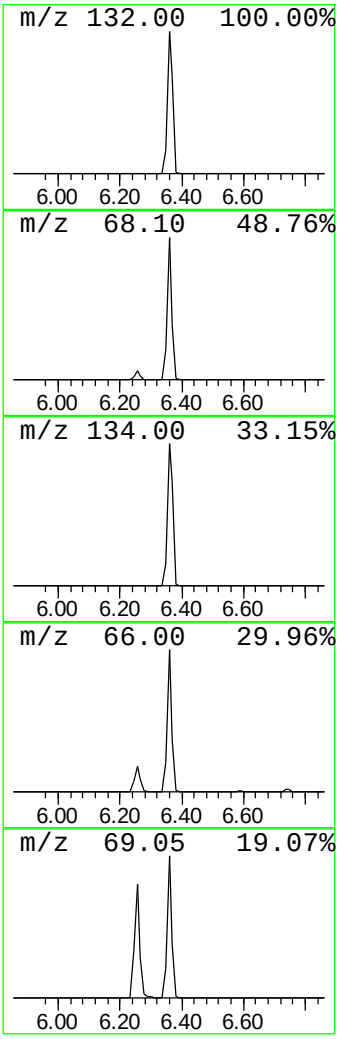
****

Peak Number 2 unknown6.36 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.36	97.62 ng	5962430	1,4-Dichlorobenzene-d4	6.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Aminoindole	132	C8H8N2	005192-03-0	12
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092247.D
Acq On : 13 Jan 2017 14:14
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Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

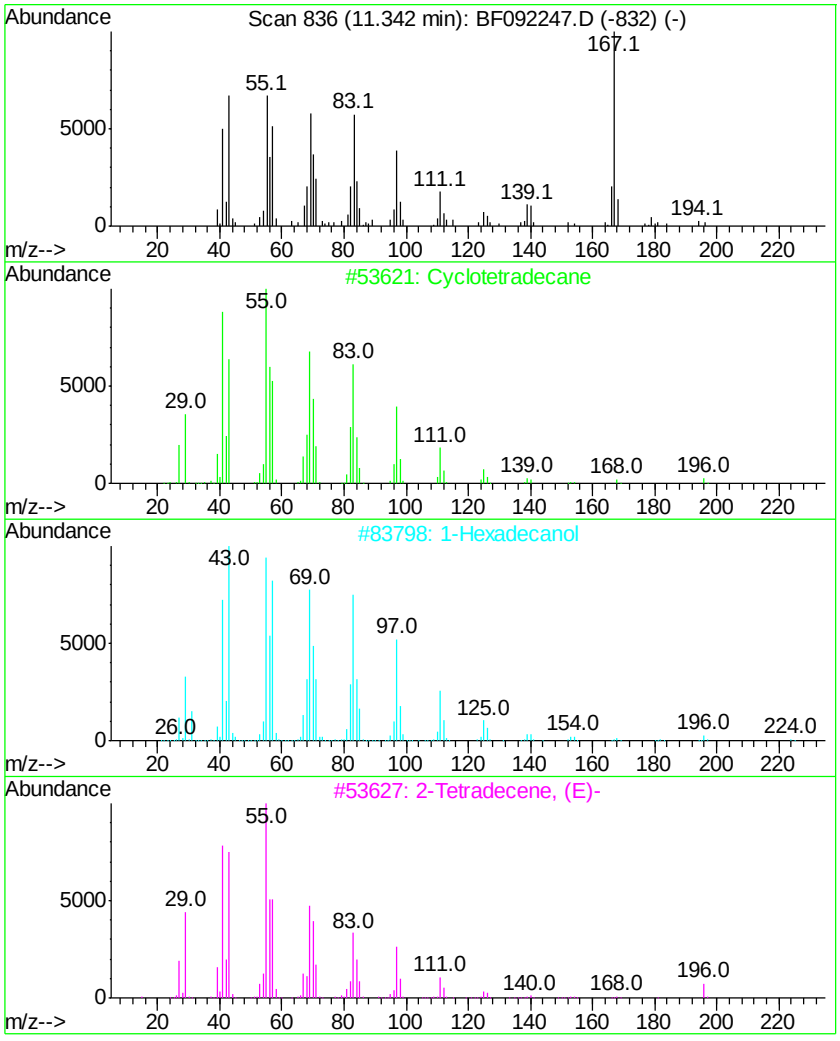
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

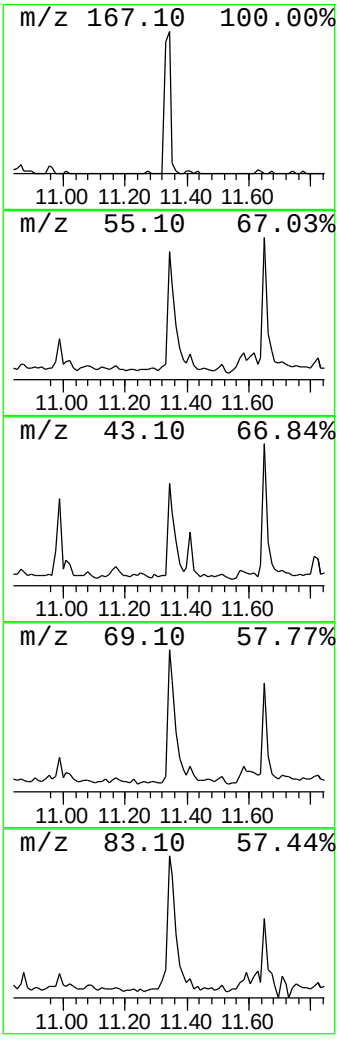
****

Peak Number 4 Cyclotetradecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.34	3.83 ng	348038	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	87
2	1-Hexadecanol	242	C16H34O	036653-82-4	84
3	2-Tetradecene, (E)-	196	C14H28	035953-53-8	83
4	Cyclododecane	168	C12H24	000294-62-2	80
5	1-Pentadecanol	228	C15H32O	000629-76-5	46





Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092247.D
Acq On : 13 Jan 2017 14:14
Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

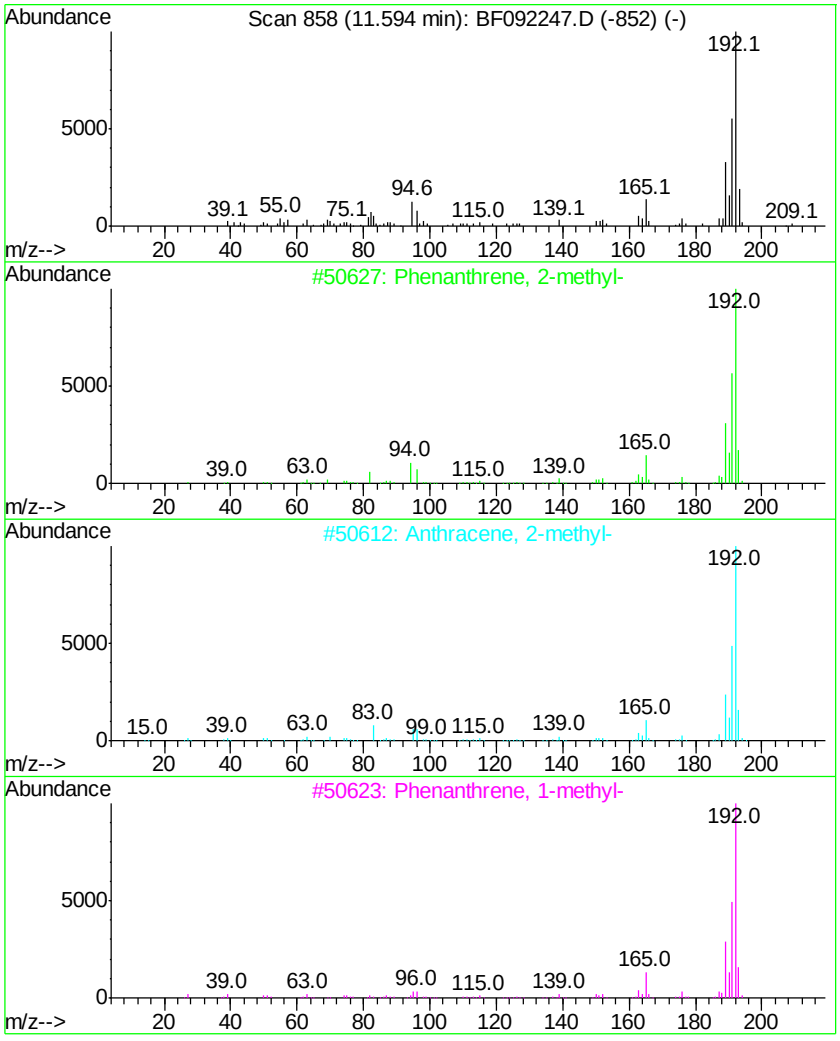
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

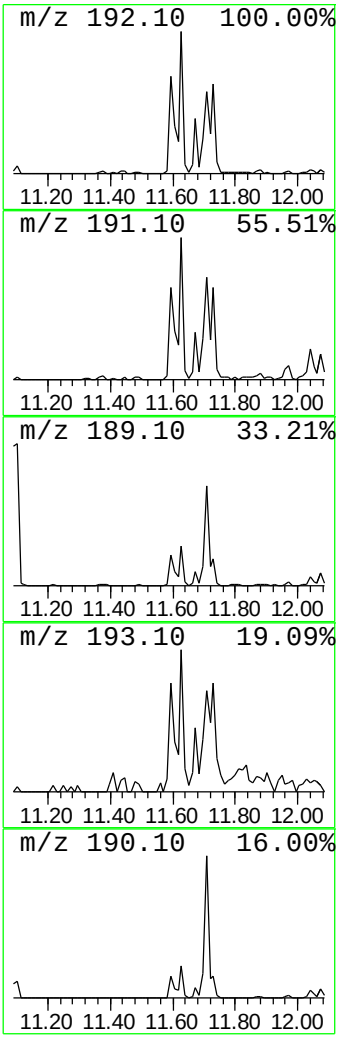
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.59	2.43 ng	220809	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





Library Search Compound Report

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Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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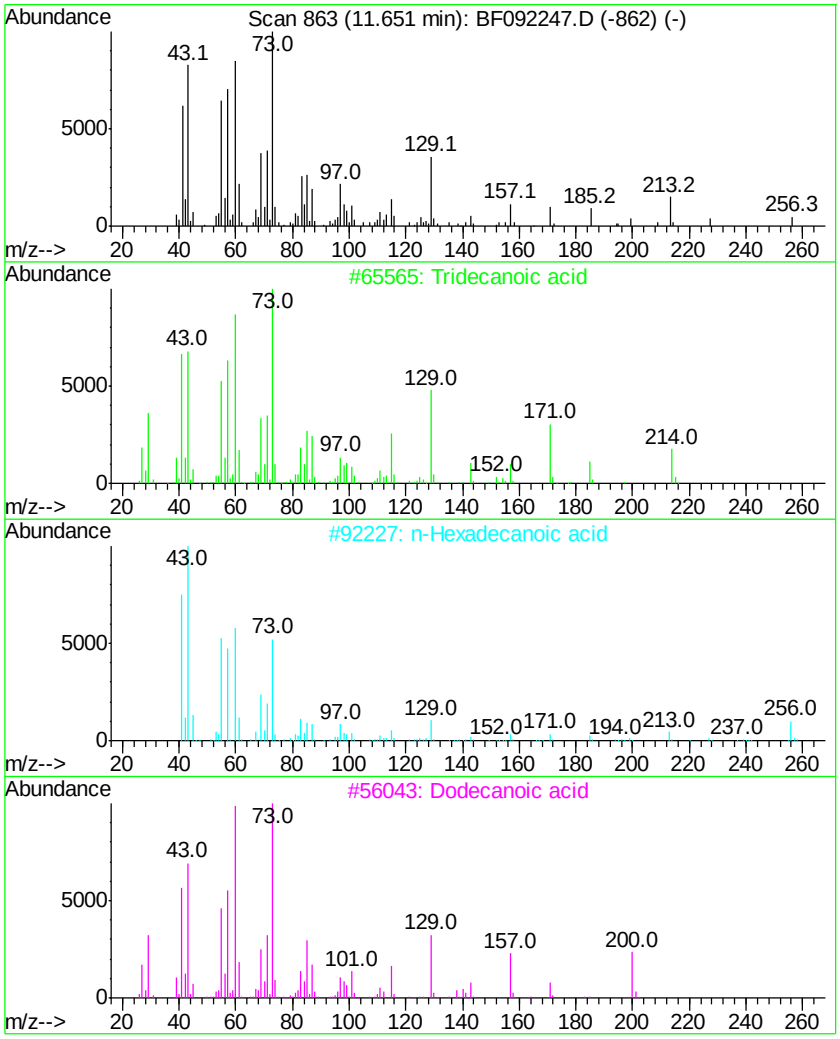
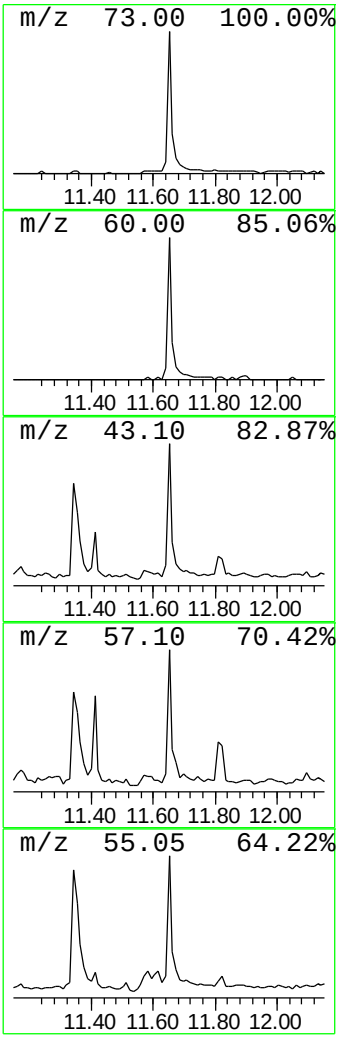
Peak Number 6 Tridecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.65	3.36 ng	305274	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecanoic acid	214	C13H26O2	000638-53-9	93
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
3	Dodecanoic acid	200	C12H24O2	000143-07-7	80
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Nonanoic acid	158	C9H18O2	000112-05-0	43





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Acq On : 13 Jan 2017 14:14
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Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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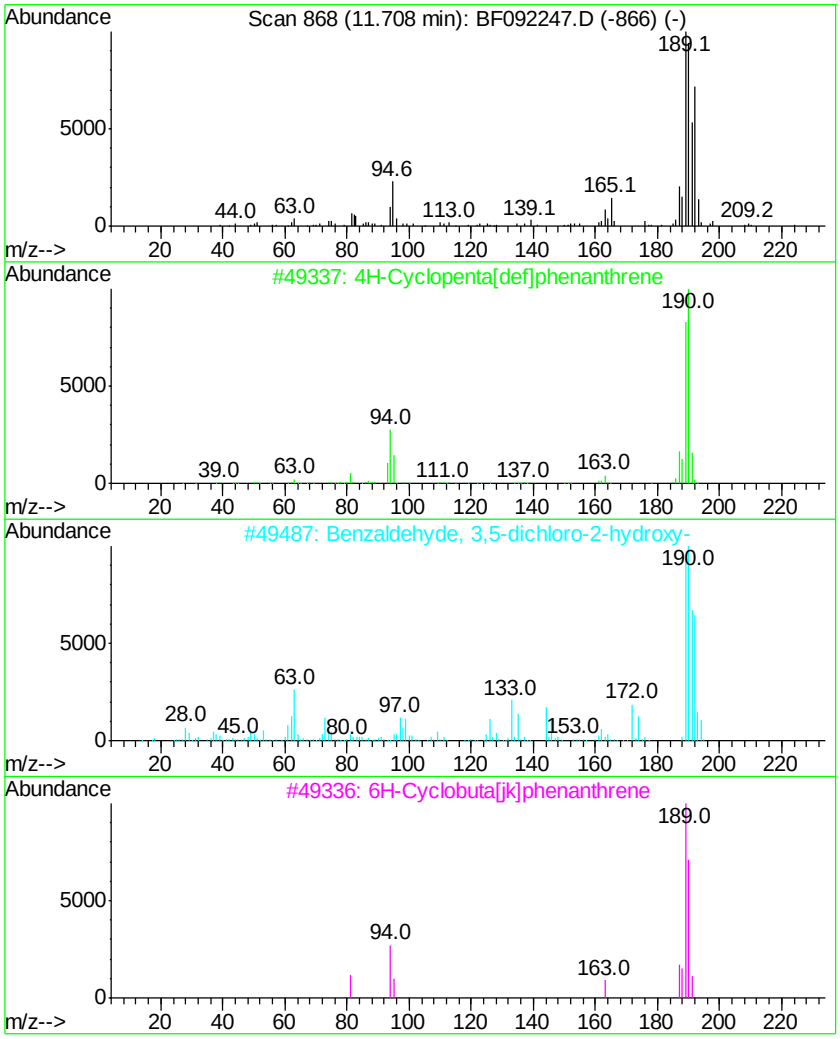
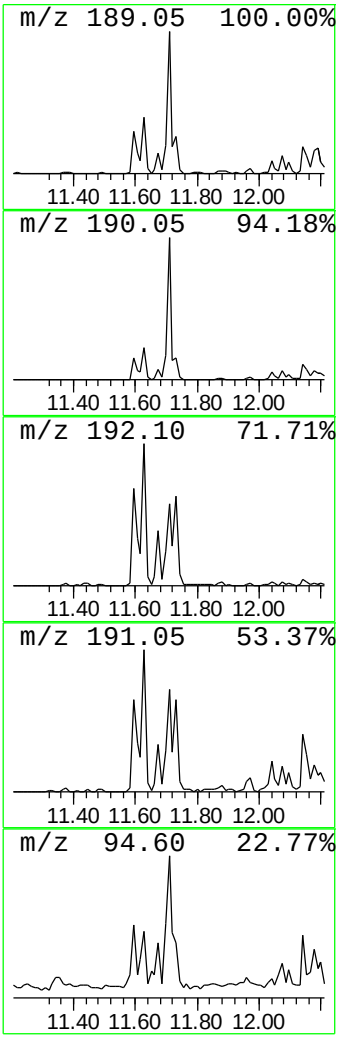
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	3.44 ng	312525	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
4	Methyl diselenide	190	C2H6Se2	007101-31-7	41
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38





Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092247.D
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Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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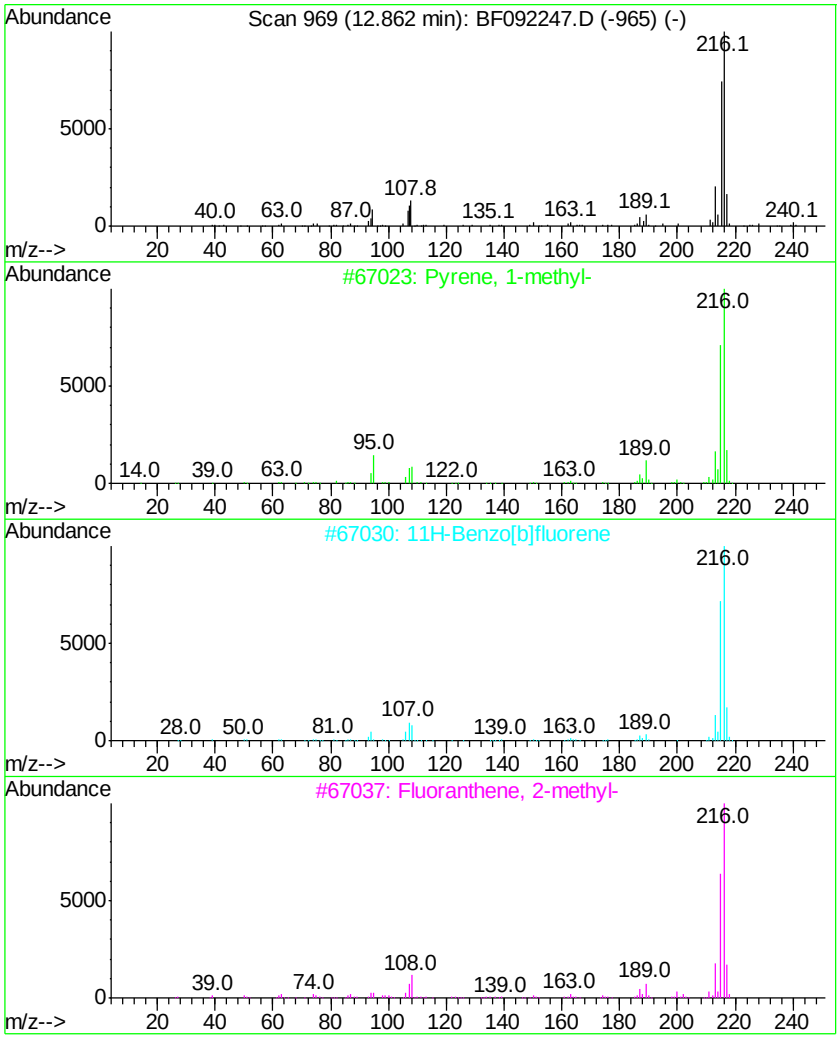
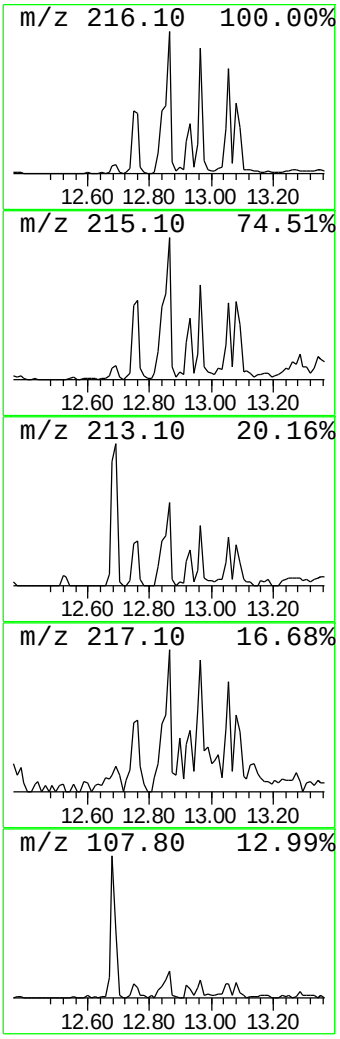
Peak Number 8 Pyrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.86	2.49 ng	242102	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83





Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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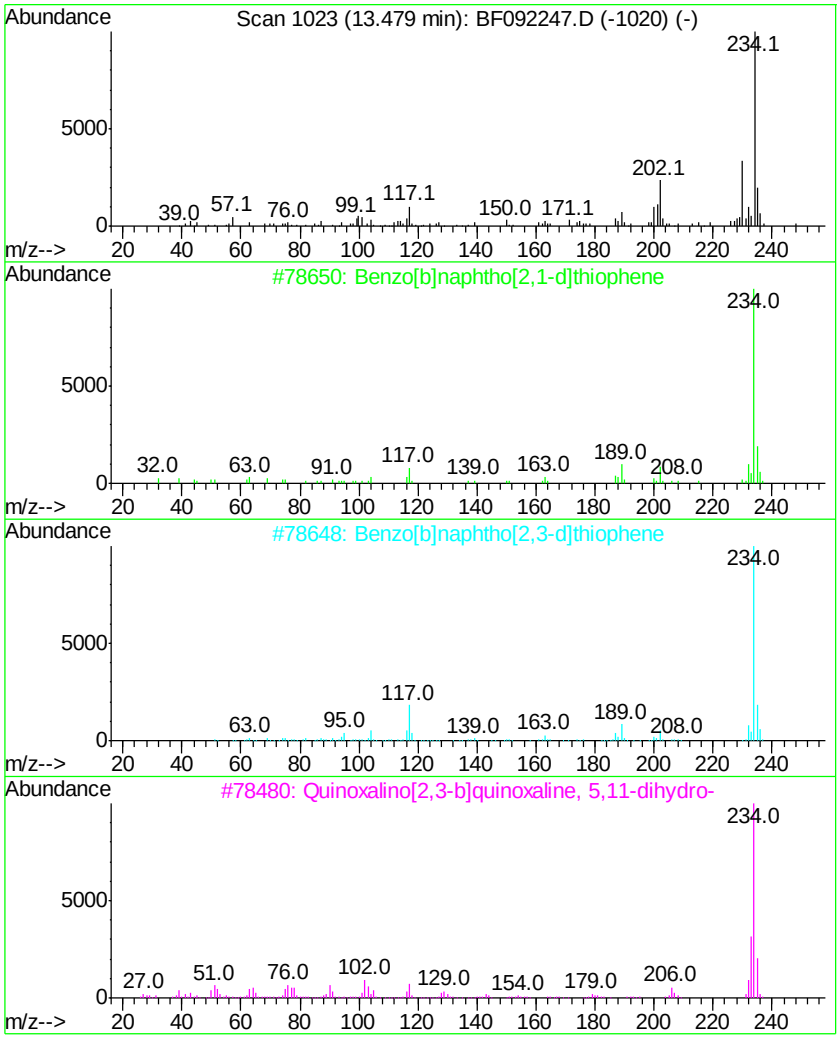
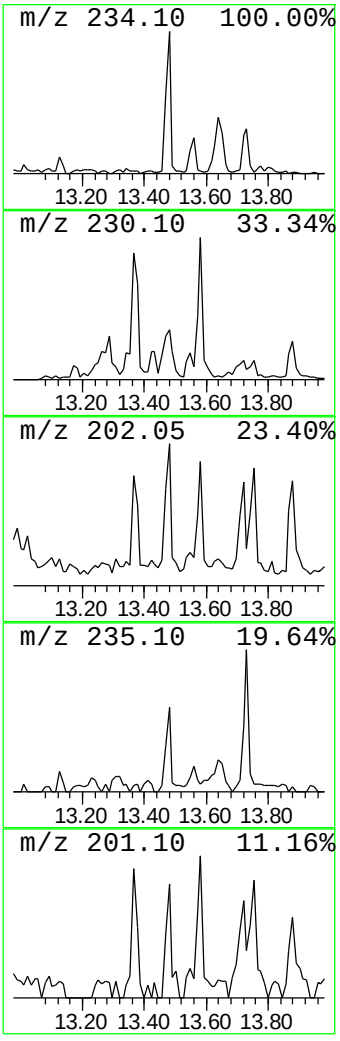
Peak Number 9 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.48	2.26 ng	219888	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	58
3	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	50
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	49
5	2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	43





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
Data File : BF092247.D
Acq On : 13 Jan 2017 14:14
Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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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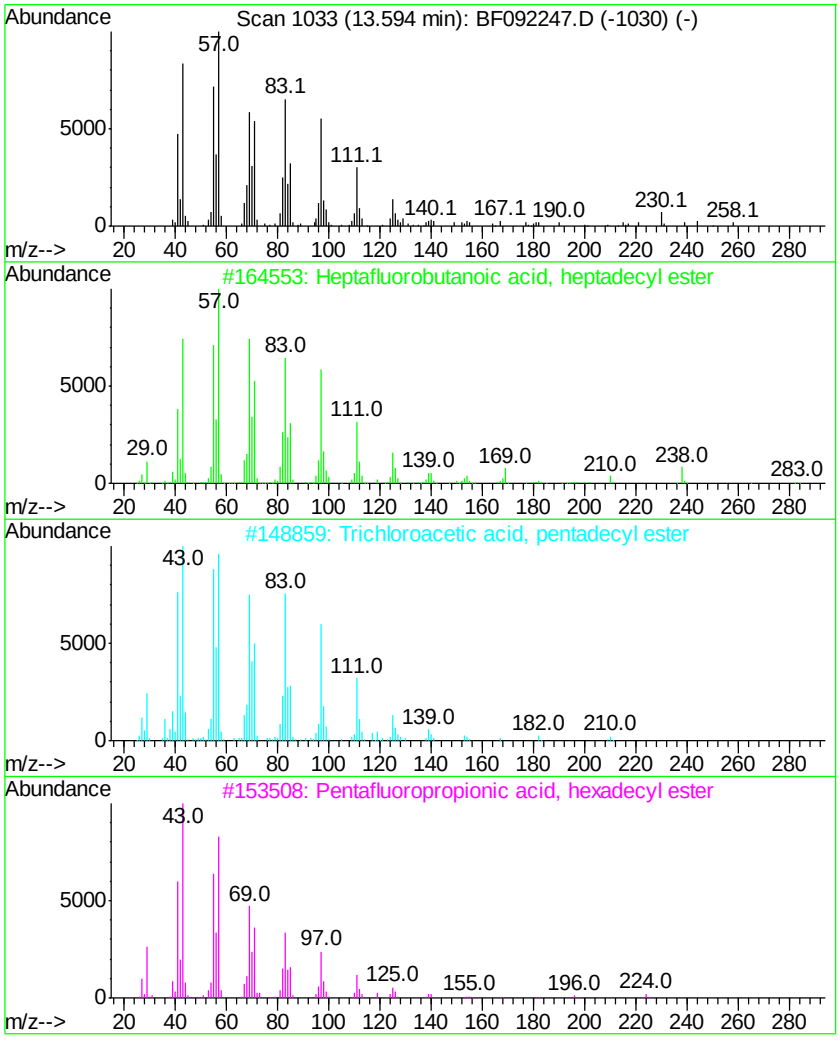
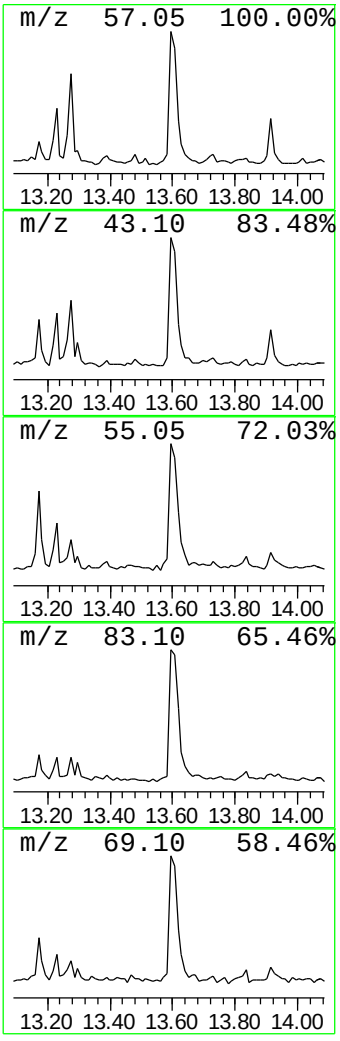
Peak Number 10 Heptafluorobutanoic acid, h... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.59	4.39 ng	427174	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	94
2	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
3	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91
4	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	91
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91





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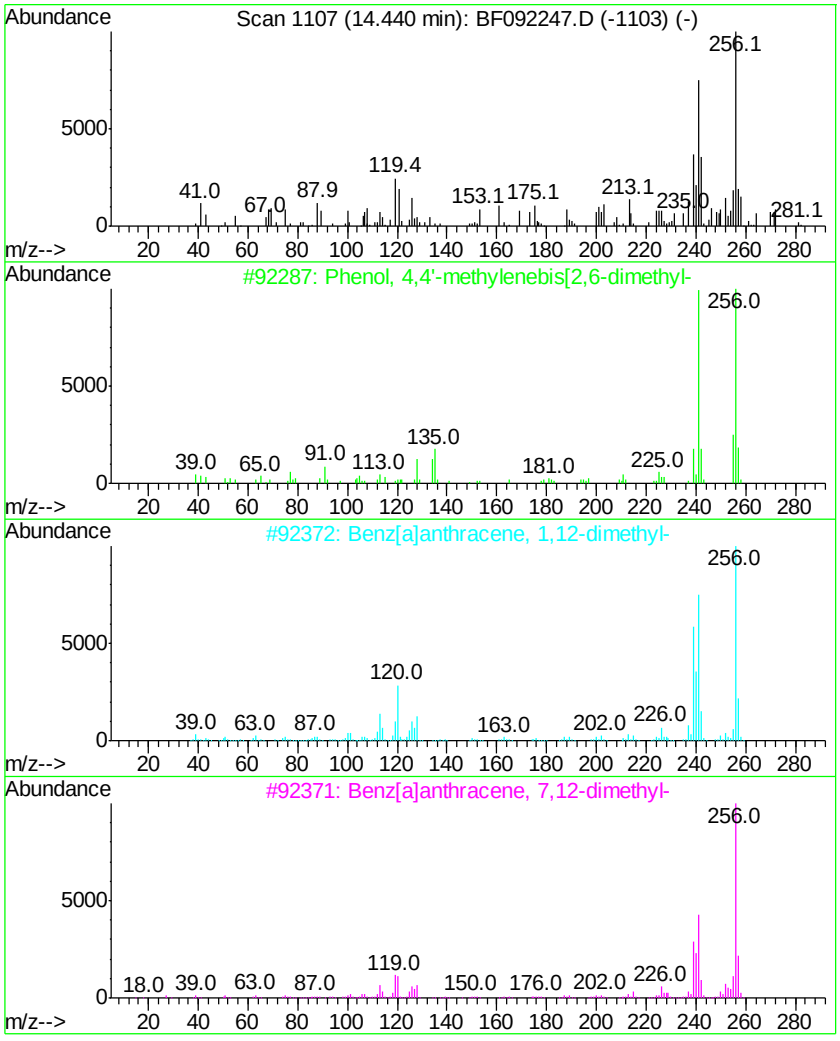
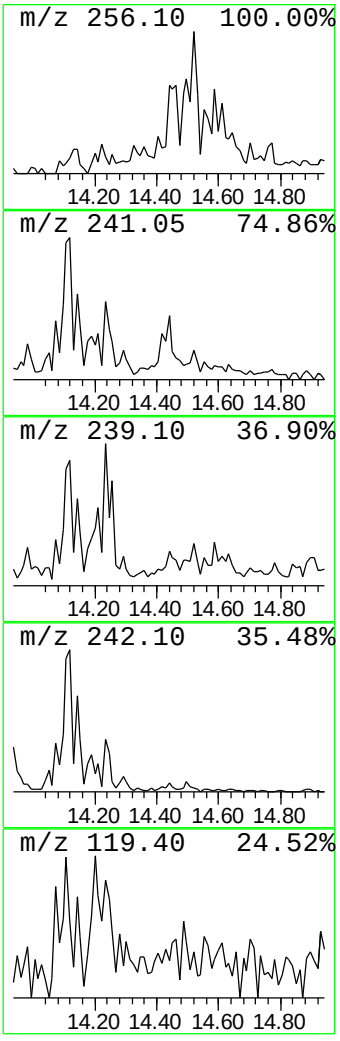
Peak Number 11 Phenol, 4,4'-methylenebis[2... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.44	2.11 ng	109379	Perylene-d12	15.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4,4'-methylenebis[2,6-di...	256	C17H20O2	005384-21-4	64
2	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	53
3	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	53
4	Phen-1,3-diol, 4,5,6-trimethoxy-...	256	C12H16O6	1000124-93-3	52
5	4-Hydroxy-1-methyl-6-phenyl-3-(p...	256	C15H16N2O2	1000239-66-9	46





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Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
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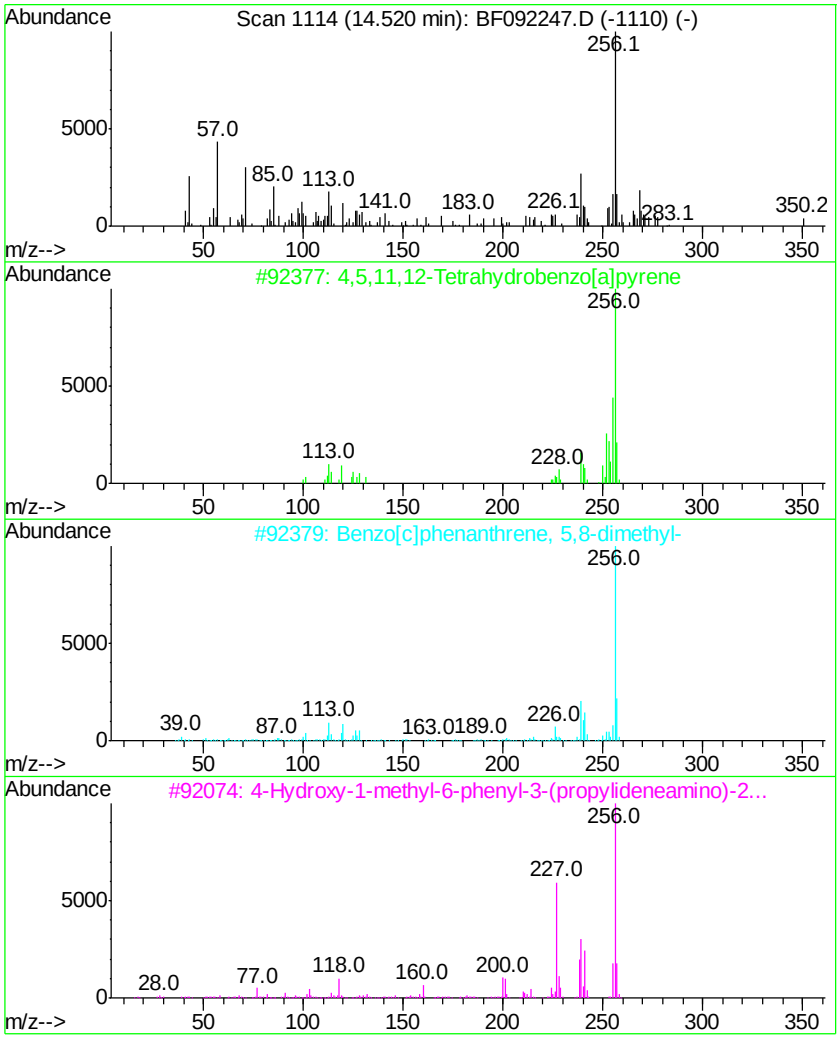
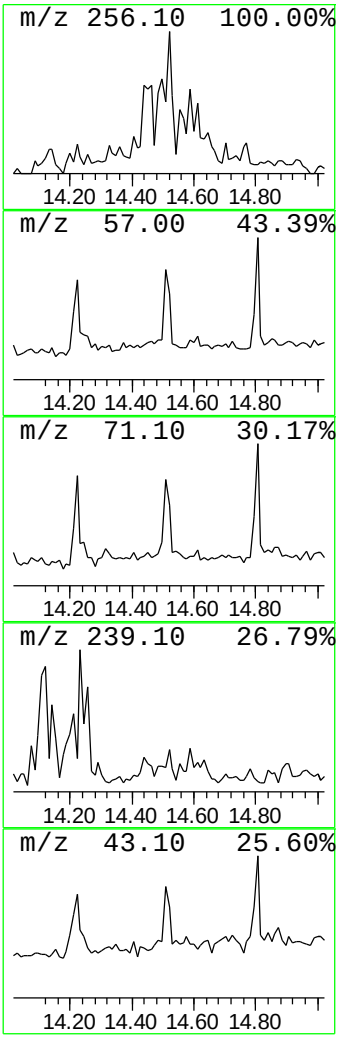
Peak Number 12 4,5,11,12-Tetrahydrobenzo[a... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.52	2.31 ng	119519	Perylene-d12	15.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5,11,12-Tetrahydrobenzo[a]pyrene	256	C20H16	109292-58-2	62
2	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	60
3	4-Hydroxy-1-methyl-6-phenyl-3-(p...	256	C15H16N2O2	1000239-66-9	53
4	Benzene, 1,1',1''-(1-ethenyl-2-y...	256	C20H16	000058-72-0	49
5	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	49





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Sample : I1146-01
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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

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TIC Integration Parameters: LSCINT.P

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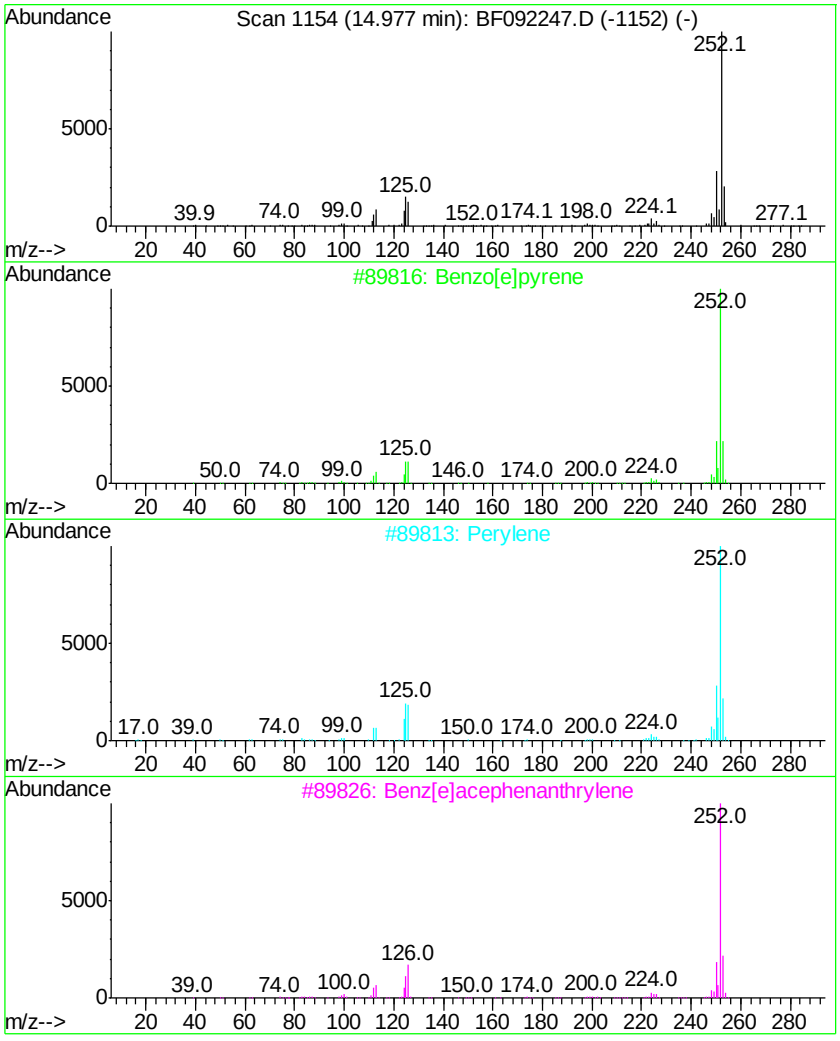
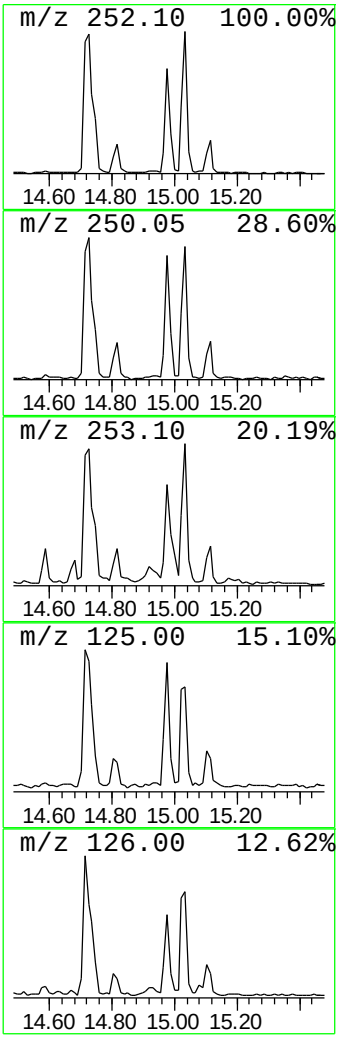
Peak Number 14 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	5.99 ng	310219	Perylene-d12	15.08

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011317\
Data File : BF092247.D
Acq On : 13 Jan 2017 14:14
Operator : UM/SJ
Sample : I1146-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : P-19-11017

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.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...	4.72	55.8	ng	3408140	1	6.59	1221510	20.0
unknown6.36	6.36	97.6	ng	5962430	1	6.59	1221510	20.0
Cyclotetradecane	11.34	3.8	ng	348038	4	11.10	1816800	20.0
Phenanthrene, 2-m...	11.59	2.4	ng	220809	4	11.10	1816800	20.0
Tridecanoic acid	11.65	3.4	ng	305274	4	11.10	1816800	20.0
4H-Cyclopenta[def...	11.71	3.4	ng	312525	4	11.10	1816800	20.0
Pyrene, 1-methyl-	12.86	2.5	ng	242102	5	13.73	1946550	20.0
Benzo[b]naphtho[2...	13.48	2.3	ng	219888	5	13.73	1946550	20.0
Heptafluorobutano...	13.59	4.4	ng	427174	5	13.73	1946550	20.0
Phenol, 4,4'-meth...	14.44	2.1	ng	109379	6	15.08	1035280	20.0
4,5,11,12-Tetrahy...	14.52	2.3	ng	119519	6	15.08	1035280	20.0
Benzo[e]pyrene	14.98	6.0	ng	310219	6	15.08	1035280	20.0