LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

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-BF052615.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	1.553	31	32	38	rVB	27678	47413	1.85%	0.186%
2	1.655	38	41	63	rVB	1202797	2559228	100.00%	10.016%
3	5.210	350	352	362	rBV	198415	275006	10.75%	1.076%
4	6.536	465	468	476	rBV	216510	295038	11.53%	1.155%
5	6.650	476	478	481	rBV	318767	311840	12.18%	1.220%
6	6.936	501	503	507	rBV	361639	372711	14.56%	1.459%
7	7.119	516	519	522	rBV	248250	237879	9.29%	0.931%
8	7.633	562	564	572	rBV	155095	182838	7.14%	0.716%
9	8.513	638	641	643	rBV	535385	524756	20.50%	2.054%
10	9.862	756	759	761	rBV	255424	320387	12.52%	1.254%
11	10.376	801	804	806	rBV	19210	27392	1.07%	0.107%
12	10.673	827	830	832	rBV	615776	574049	22.43%	2.247%
13	10.708	832	833	836	rVB	86879	113500	4.43%	0.444%
14	10.936	851	853	855	rBV	37543	50554	1.98%	0.198%
15	11.348	888	889	892	rBV	67137	91803	3.59%	0.359%
16	11.656	913	916	919	rBV	219525	242824	9.49%	0.950%
17	12.274	968	970	974	rVB	31422	42592	1.66%	0.167%
18	12.376	977	979	981	rVV	58876	56511	2.21%	0.221%
19	12.514	988	991	992	rBV	459954	726687	28.39%	2.844%
20	12.536	992	993	996	rVV	1448774	1213294	47.41%	4.749%
21	12.605	996	999	1001	rVV	182453	230746	9.02%	0.903%
22	12.822	1016	1018	1020	rBV	107081	141813	5.54%	0.555%
23	13.131	1043	1045	1047	rBV	50834	72082	2.82%	0.282%
24	13.165	1047	1048	1052	rVV	68100	98769	3.86%	0.387%
25	13.268	1055	1057	1059	rVV	178186	213155	8.33%	0.834%
26	13.302	1059	1060	1062	rVB	35679	27004	1.06%	0.106%
27	13.508	1077	1078	1080	rBV	54988	86158	3.37%	0.337%
28	13.542	1080	1081	1084	rVB	123828	104093	4.07%	0.407%
29	13.817	1103	1105	1107	rBV	23875	32787	1.28%	0.128%
30	13.851	1107	1108	1110	rVV2	22693	34924	1.36%	0.137%
31	13.919	1112	1114	1119	rVB	49932	60256	2.35%	0.236%
32	14.011	1119	1122	1124	rBV	2011856	2071301	80.93%	8.107%
33	14.091	1127	1129	1131	rBV	31893	32211	1.26%	0.126%
34	14.194	1135	1138	1140	rBV	63052	90884	3.55%	0.356%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	14.285	1143	1146	1148	rBV	1809443	1981734	77.43%	7.756%
36	14.354	1151	1152	1158	rVB4	36897	52576	2.05%	0.206%
37	14.445	1158	1160	1162	rBV	69172	76525	2.99%	0.300%
38	14.502	1162	1165	1167	rBV2	380121	469728	18.35%	1.838%
39	14.571	1167	1171	1173	rBV2	44039	97225	3.80%	0.381%
40	14.617	1173	1175	1177	rVB	32159	41756	1.63%	0.163%
41	14.708	1177	1183	1185	rVB	117033	230778	9.02%	0.903%
42	14.788	1188	1190	1192	rBV	98599	97089	3.79%	0.380%
43	14.834	1192	1194	1199	rVB2	79910	158553	6.20%	0.621%
44	14.937	1202	1203	1205	rVB	38262	38807	1.52%	0.152%
45	14.982	1205	1207	1209	rBV	27819	39311	1.54%	0.154%
46	15.211	1223	1227	1228	rBV3	16704	41559	1.62%	0.163%
47	15.337	1234	1238	1241	rBV	85723	120210	4.70%	0.470%
48	15.474	1247	1250	1251	rBV	103708	155207	6.06%	0.607%
49	15.531	1251	1255	1256	rVV3	106844	270440	10.57%	1.058%
50	15.554	1256	1257	1259	rVV2	86797	126166	4.93%	0.494%
51	15.600	1259	1261	1264	rVV	141801	190327	7.44%	0.745%
52	15.680	1264	1268	1271	rVV2	80562	156961	6.13%	0.614%
53	15.771	1271	1276	1278	rVV2	948820	1823892	71.27%	7.138%
54	15.817	1278	1280	1282	rVV	696538	951912	37.20%	3.726%
55	15.851	1282	1283	1285	rVV	83841	115871	4.53%	0.453%
56	15.908	1285	1288	1290	rVV	195831	286992	11.21%	1.123%
57	15.965	1290	1293	1297	rVV4	34969	99443	3.89%	0.389%
58	16.034	1297	1299	1301	rVV2	73697	103622	4.05%	0.406%
59	16.080	1301	1303	1308	rVV2	74327	105902	4.14%	0.414%
60	16.183	1310	1312	1313	rBV2	21203	36746	1.44%	0.144%
61	16.228	1313	1316	1317	rVV	67832	136783	5.34%	0.535%
62	16.274	1317	1320	1321	rVV	77096	151950	5.94%	0.595%
63	16.308	1321	1323	1327	rVV3	37201	91164	3.56%	0.357%
64	16.388	1327	1330	1331	rVV2	44707	79841	3.12%	0.312%
65	16.411	1331	1332	1333	rVV	56392	71657	2.80%	0.280%
66	16.480	1336	1338	1340	rVV3	58886	108970	4.26%	0.426%
67	16.525	1340	1342	1345	rVB	40582	57654	2.25%	0.226%
68	16.663	1351	1354	1357	rBV4	40798	80881	3.16%	0.317%
69	16.743	1360	1361	1363	rBV2	21766	27291	1.07%	0.107%
70	16.857	1368	1371	1373	rBV2	57731	118143	4.62%	0.462%
71	17.028	1383	1386	1391	rBV	749930	1520368	59.41%	5.950%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

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-BF052615.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	17.131	1391	1395	1397	rBV2	127602	200365	7.83%	0.784%
73	17.326	1409	1412	1415	rBV	371380	531824	20.78%	2.081%
74	17.383	1415	1417	1420	rBV	600274	708102	27.67%	2.771%
75	17.440	1420	1422	1423	rBV	541491	627937	24.54%	2.458%
76	18.709	1530	1533	1537	rVB2	315682	609731	23.82%	2.386%
77	18.857	1544	1546	1548	rBV	57368	103726	4.05%	0.406%
78	18.903	1548	1550	1553	rVB	44283	81946	3.20%	0.321%
79	19.074	1562	1565	1577	rVB	299355	626992	24.50%	2.454%
80	19.280	1580	1583	1590	rVB2	69411	183325	7.16%	0.718%

Sum of corrected areas: 25550467

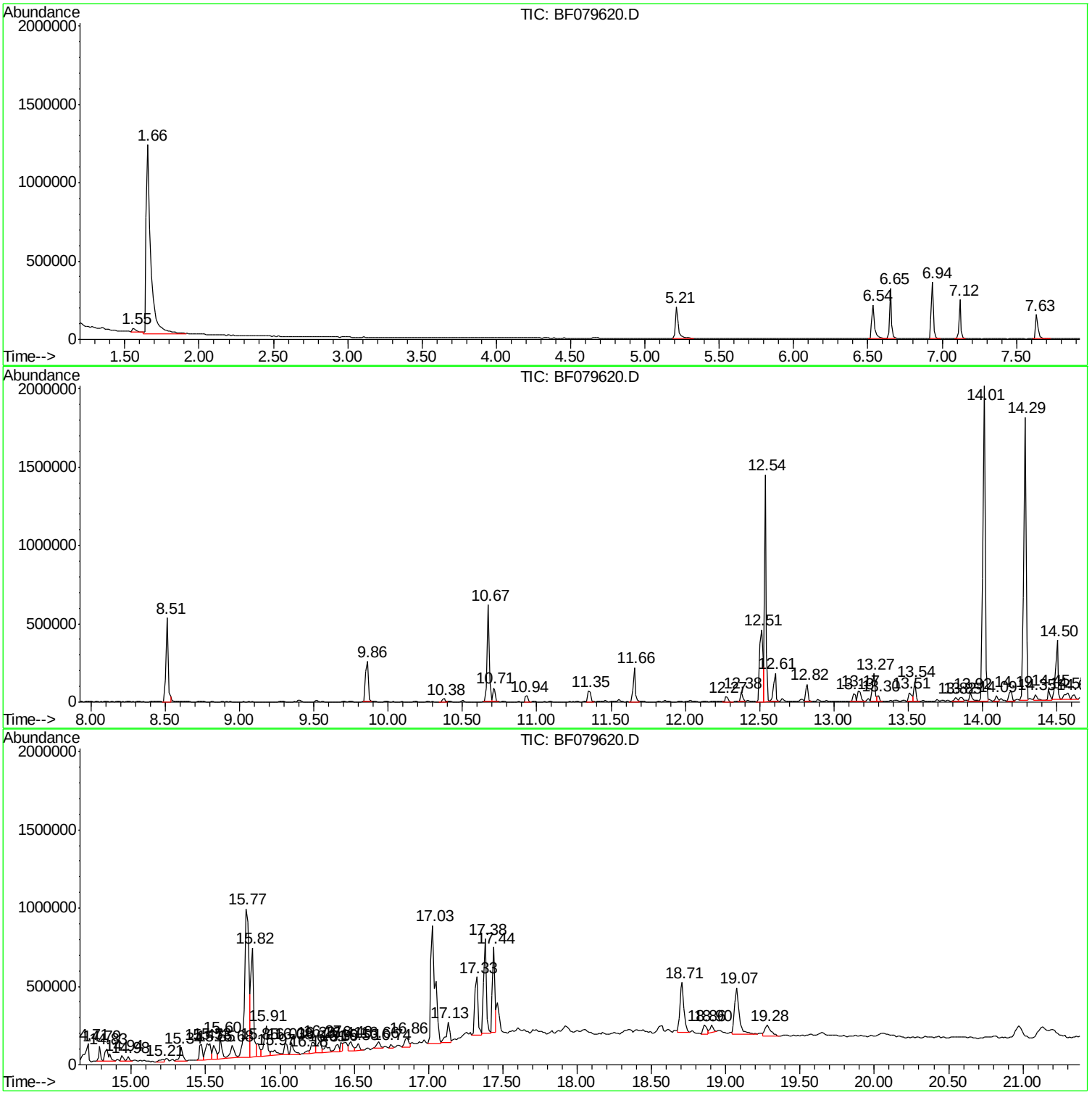
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

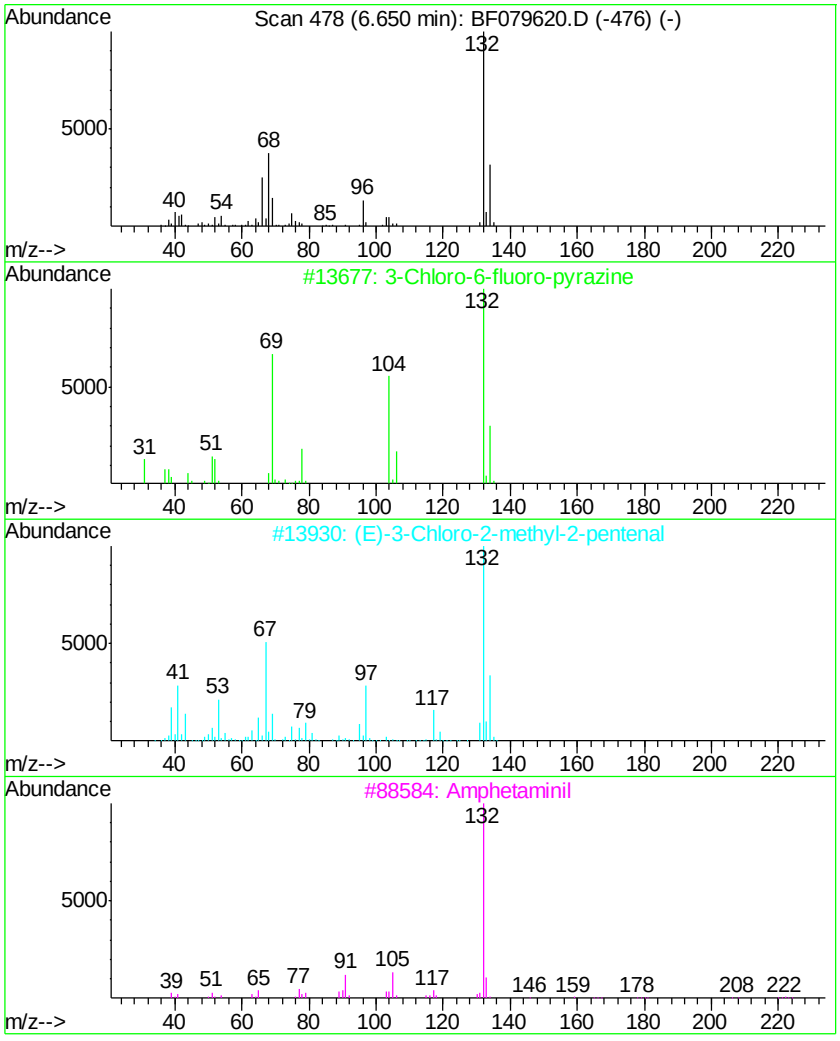
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

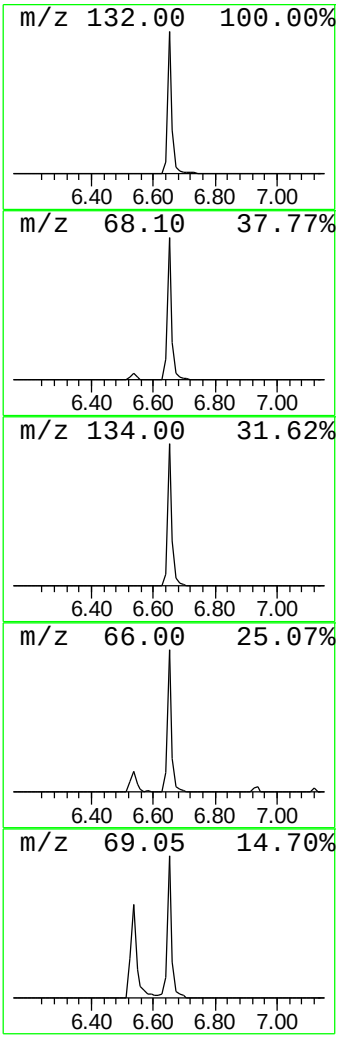
****

Peak Number 3 unknown6.65 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	16.73 ng	311840	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	Amphetaminil	250	C17H18N2	017590-01-1	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

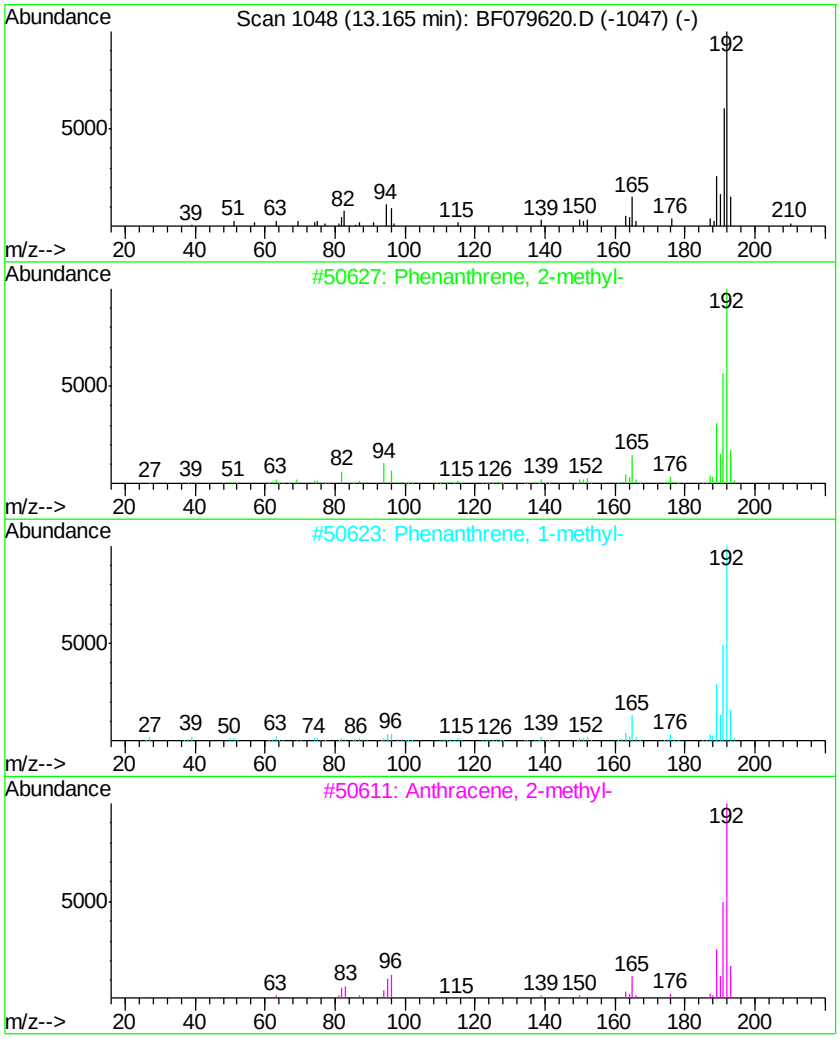
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

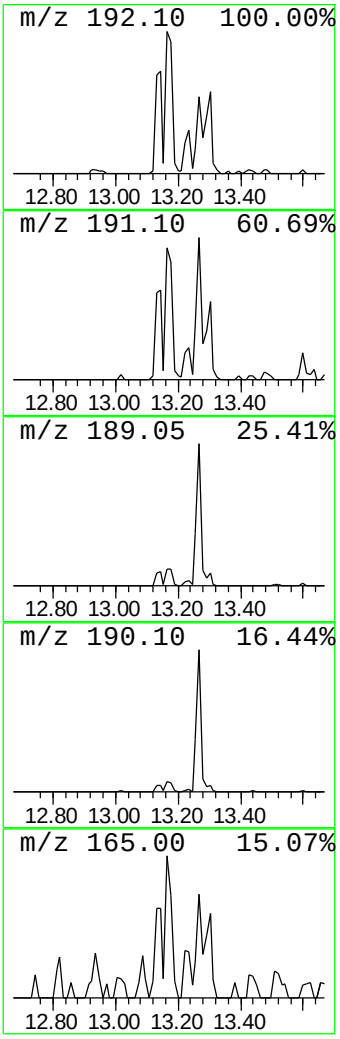
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	2.72 ng	98769	Phenanthrene-d10	12.51

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	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

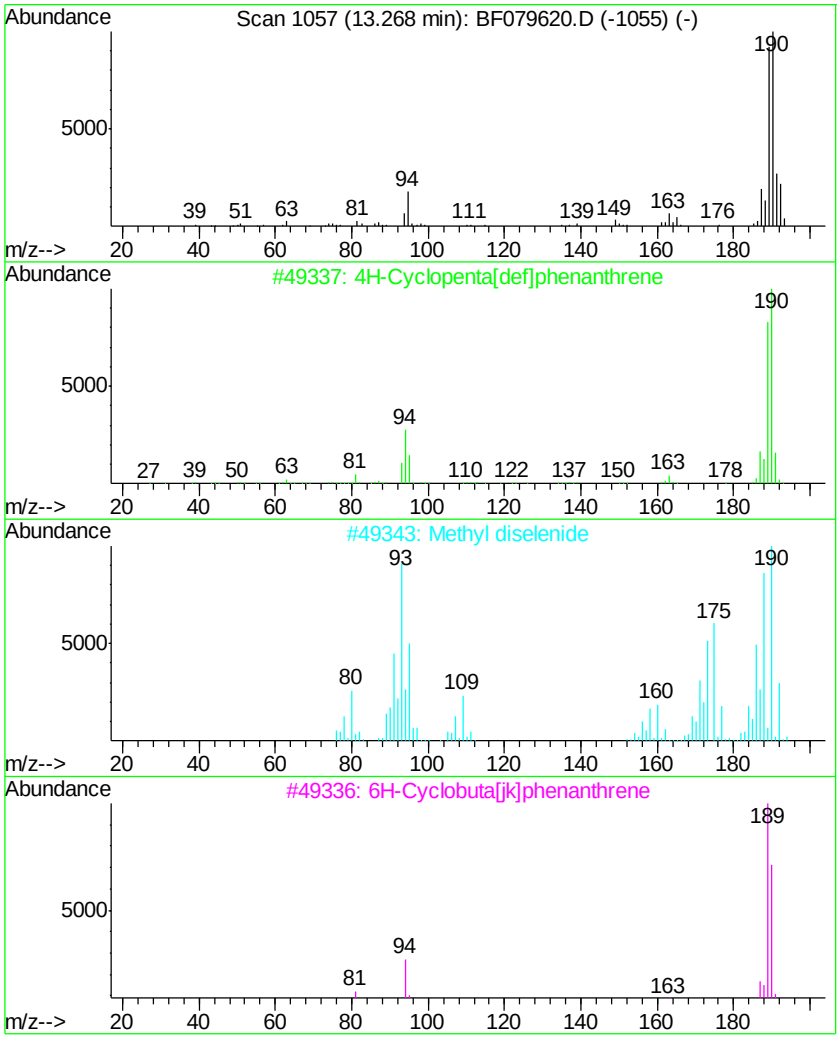
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

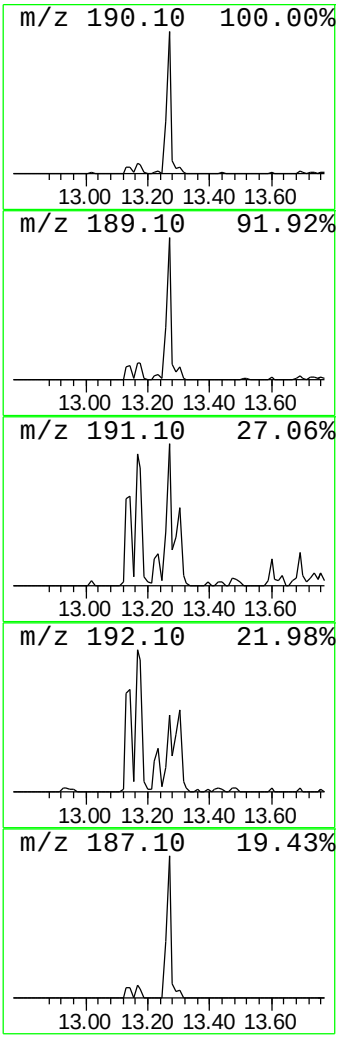
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	5.87 ng	213155	Phenanthrene-d10	12.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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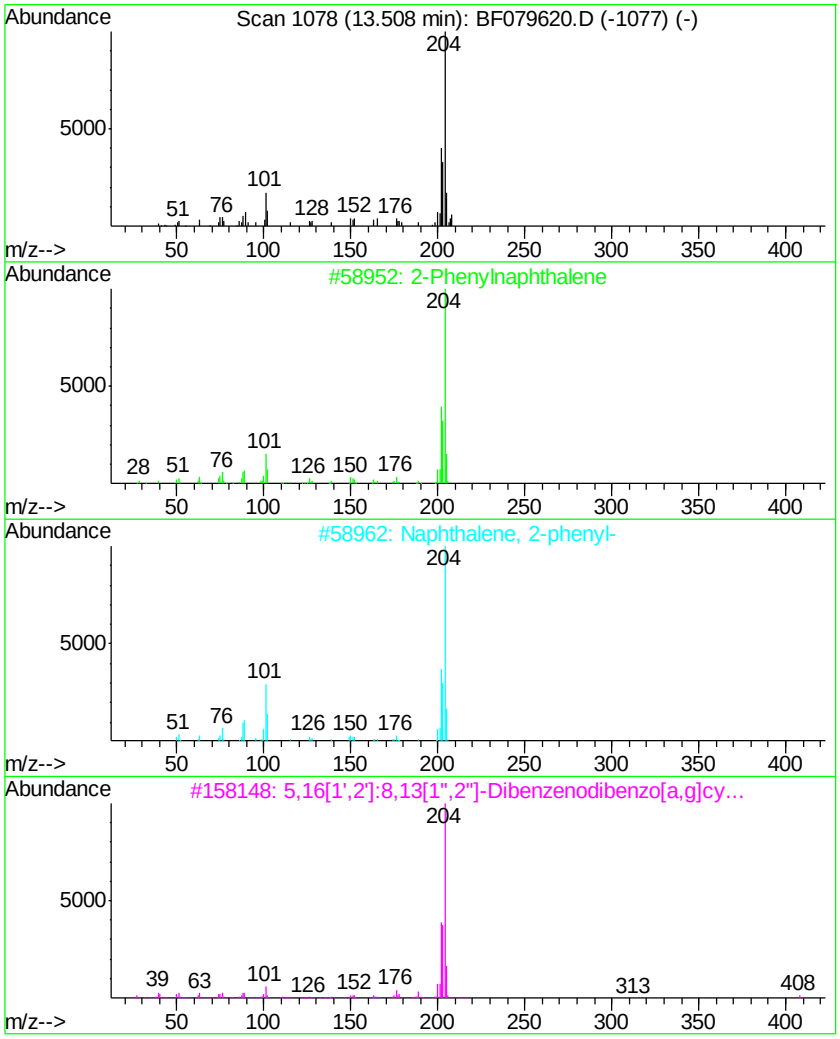
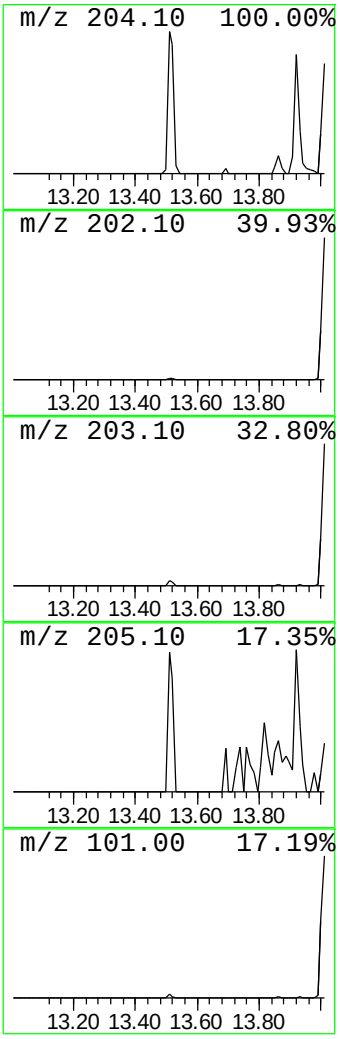
Peak Number 7 2-Phenylnaphthalene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	2.37 ng	86158	Phenanthrene-d10	12.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	93
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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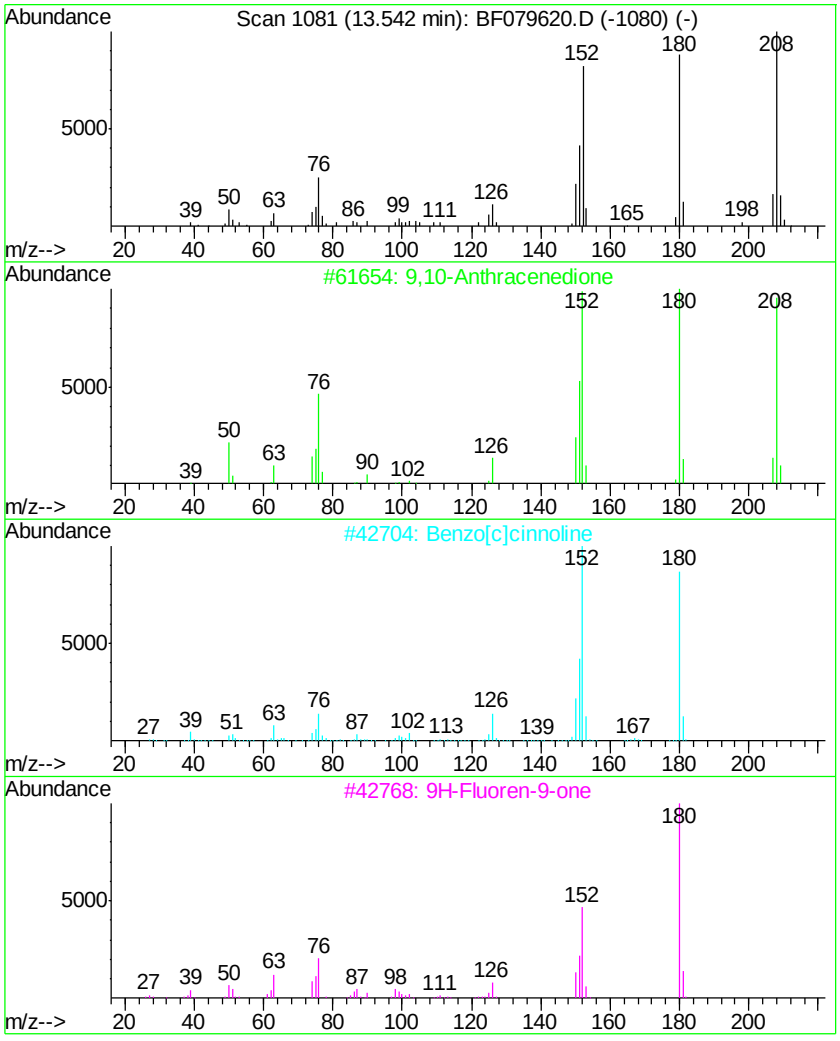
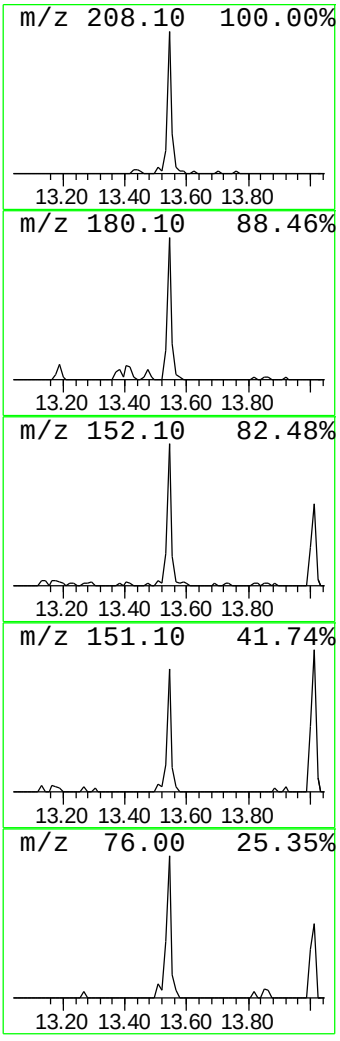
Peak Number 8 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.54	2.86 ng	104093	Phenanthrene-d10	12.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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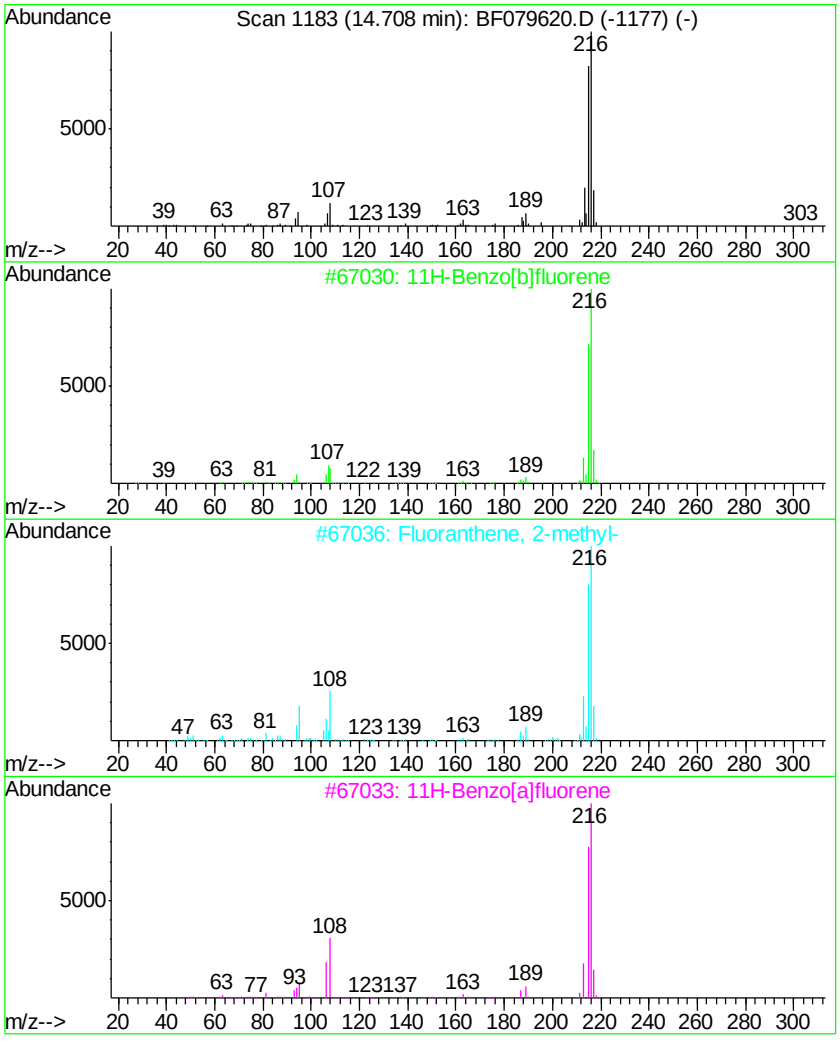
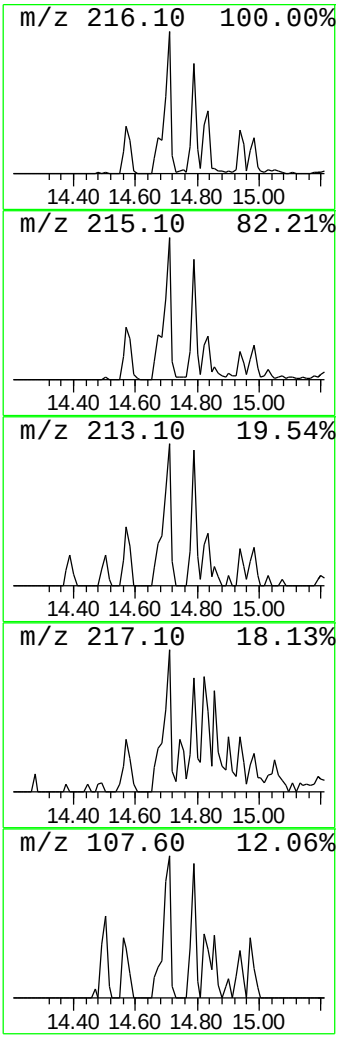
Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	2.53 ng	230778	Chrysene-d12	15.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

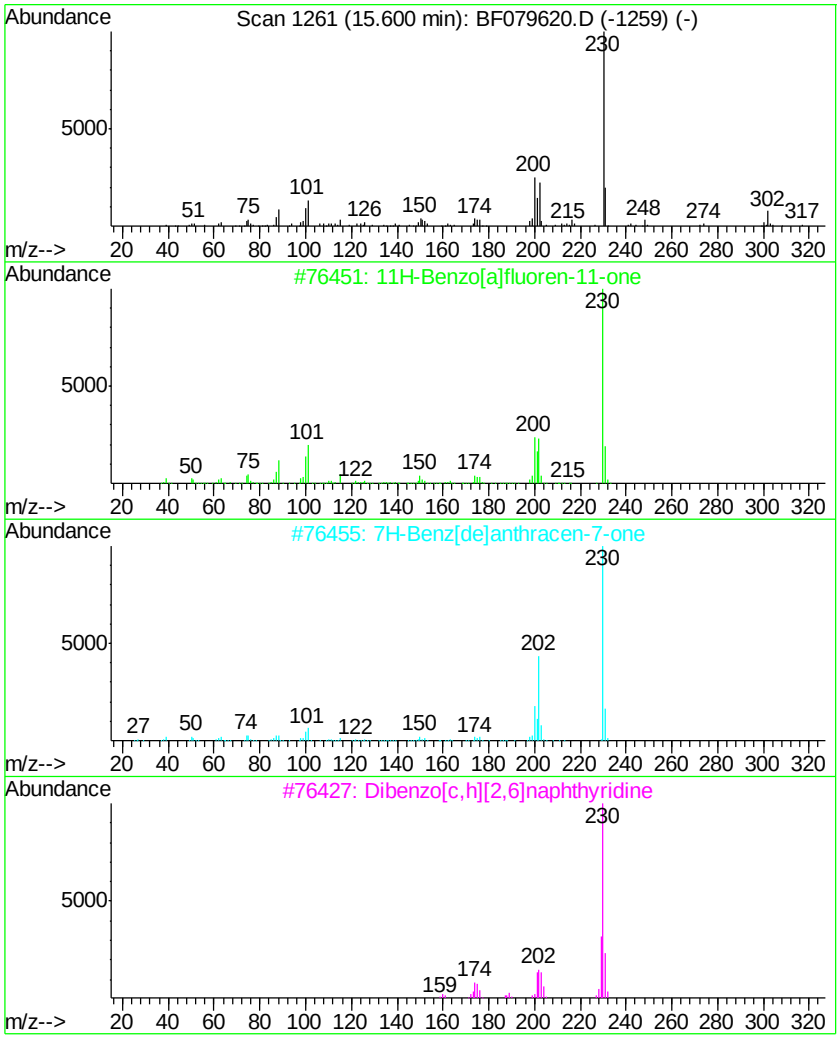
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

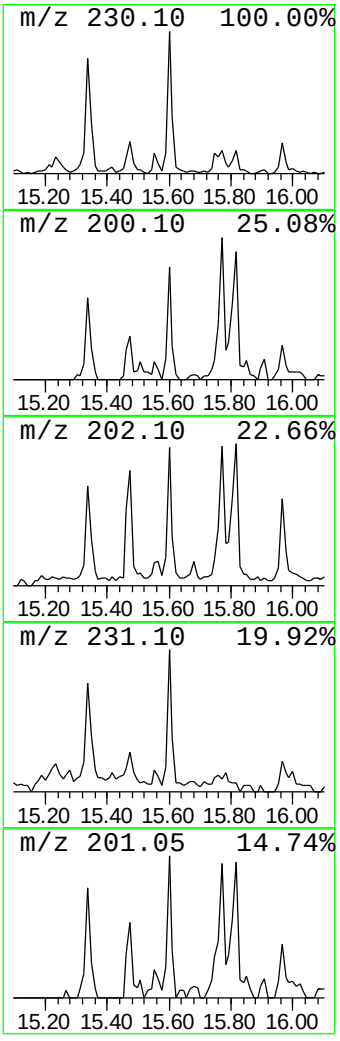
****

Peak Number 11 11H-Benzo[a]fluoren-11-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	2.09 ng	190327	Chrysene-d12	15.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	64
4	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	64
5	5,6-Dihydrochrysene	230	C18H14	002091-92-1	53





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Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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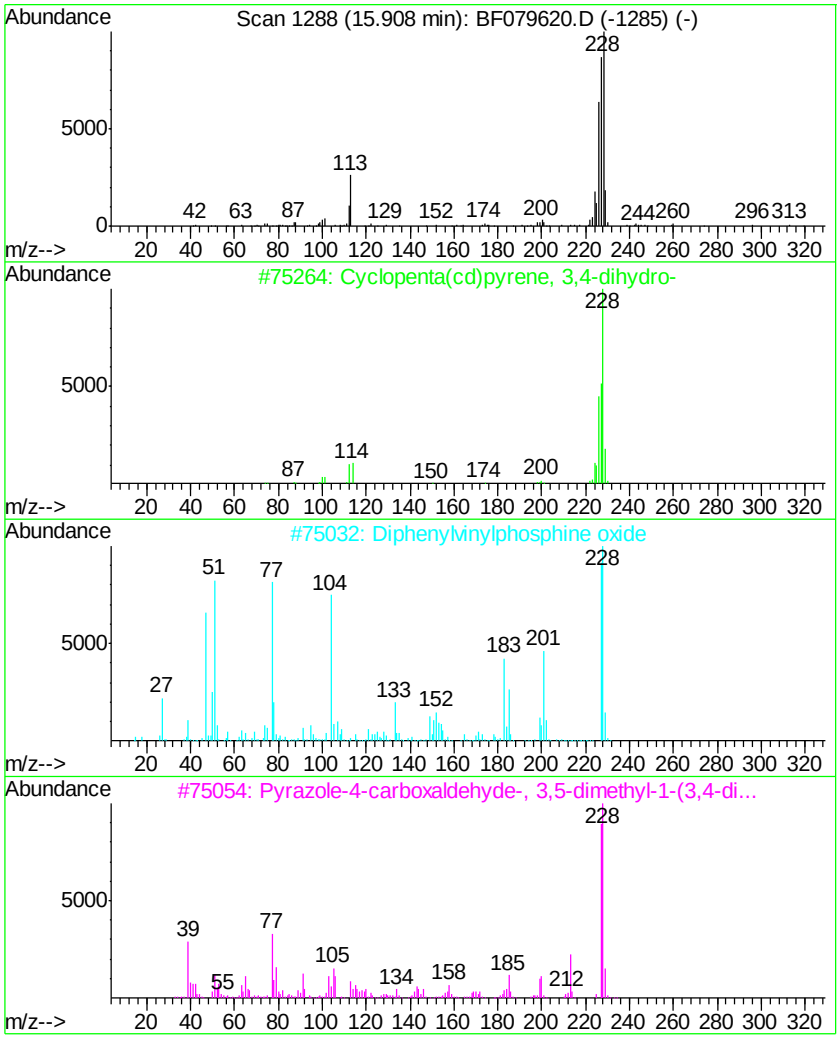
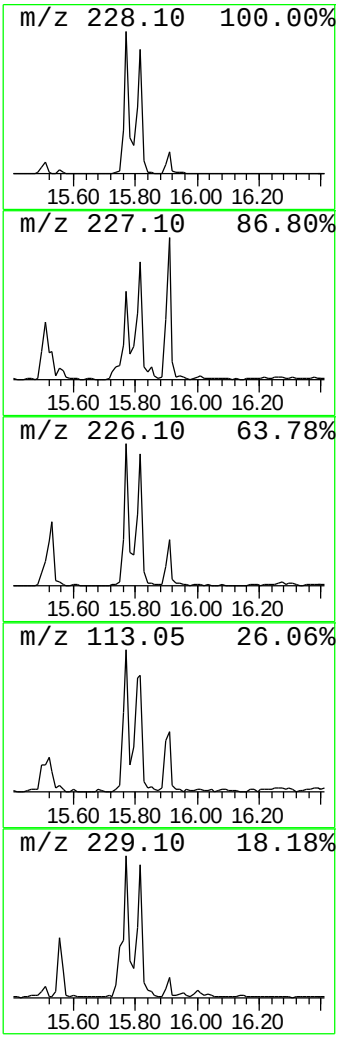
Peak Number 12 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.91	3.15 ng	286992	Chrysene-d12	15.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	87
2	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	50
3	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
4	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	50
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49





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Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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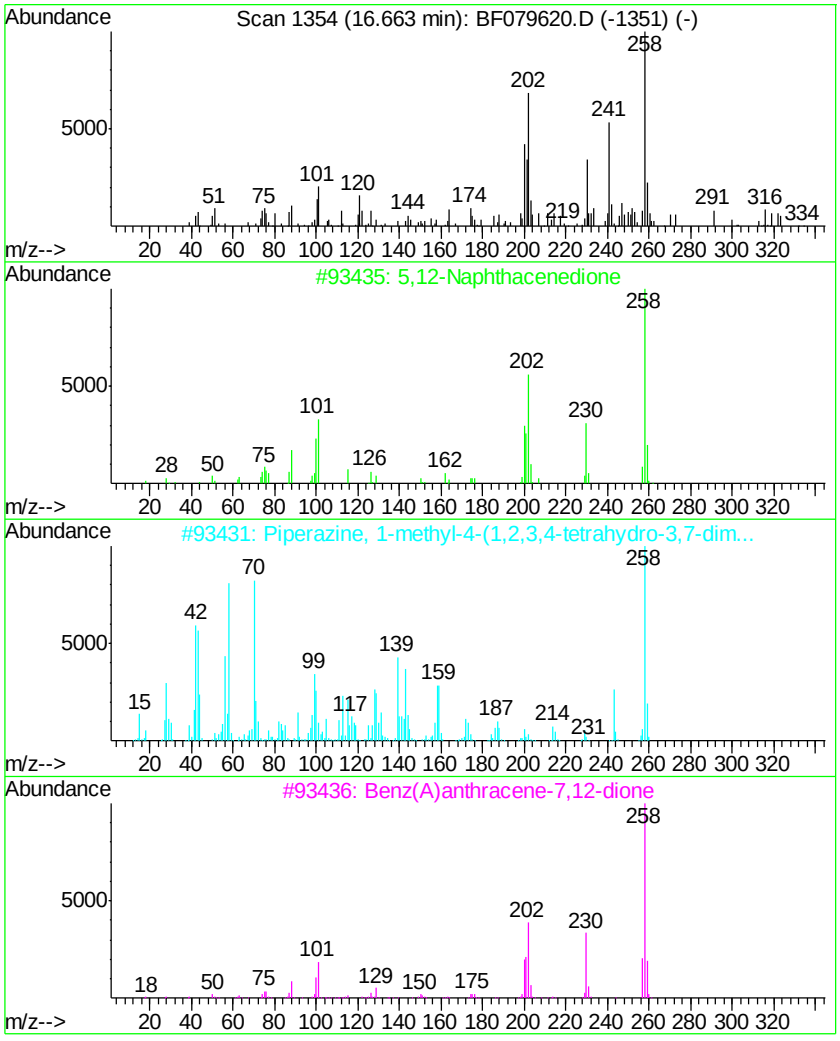
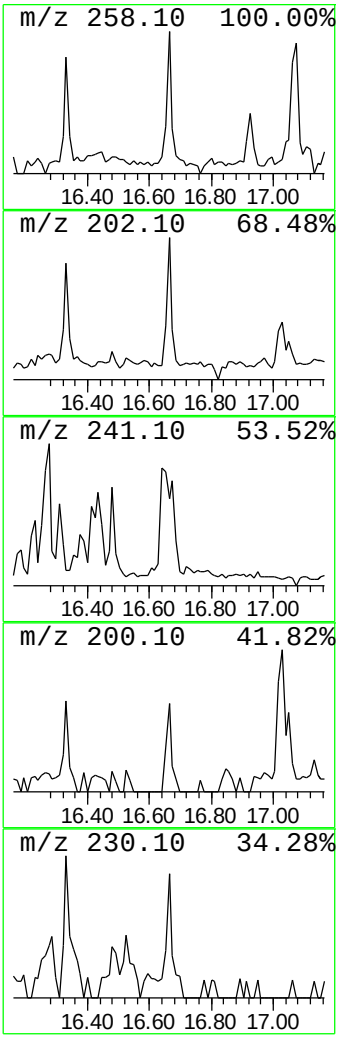
Peak Number 13 5,12-Naphthacenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.66	2.58 ng	80881	Perylene-d12	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	98
2	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	92
3	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	83
4	1,4-Chrysenequinone	258	C18H10O2	100900-16-1	37
5	3,4'-Dicarboxydiphenyl ether	258	C14H10O5	062507-84-0	35





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Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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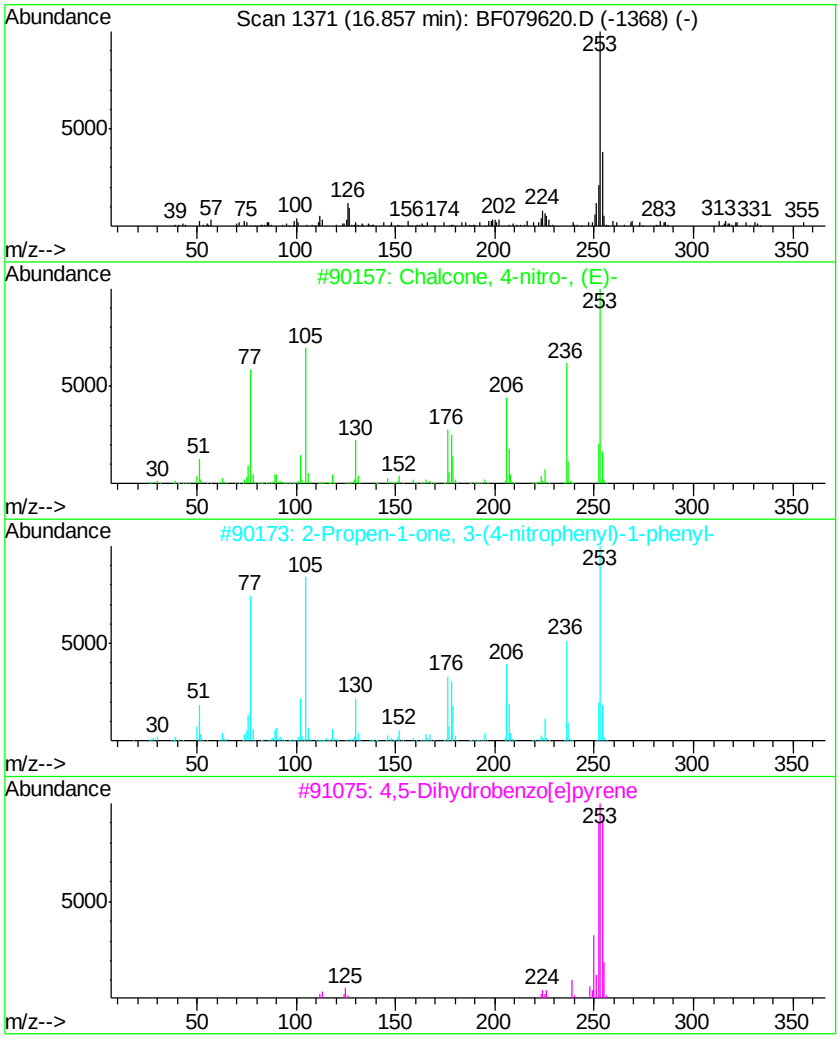
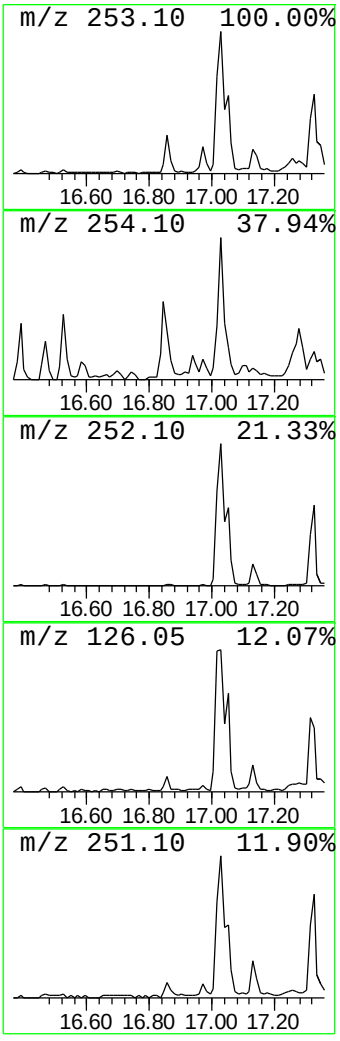
Peak Number 14 Chalcone, 4-nitro-, (E)- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.86	3.76 ng	118143	Perylene-d12	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chalcone, 4-nitro-, (E)-	253	C15H11NO3	002960-55-6	50
2	2-Propen-1-one, 3-(4-nitrophenyl...	253	C15H11NO3	001222-98-6	40
3	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	38
4	7,12-DIHYDROBENZO[K]FLUORANTHENE	254	C20H14	1000080-17-7	38
5	1,2-Dihydropyrido(3,2,1-kl)pheno...	253	C15H11NOS	069513-42-4	38





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Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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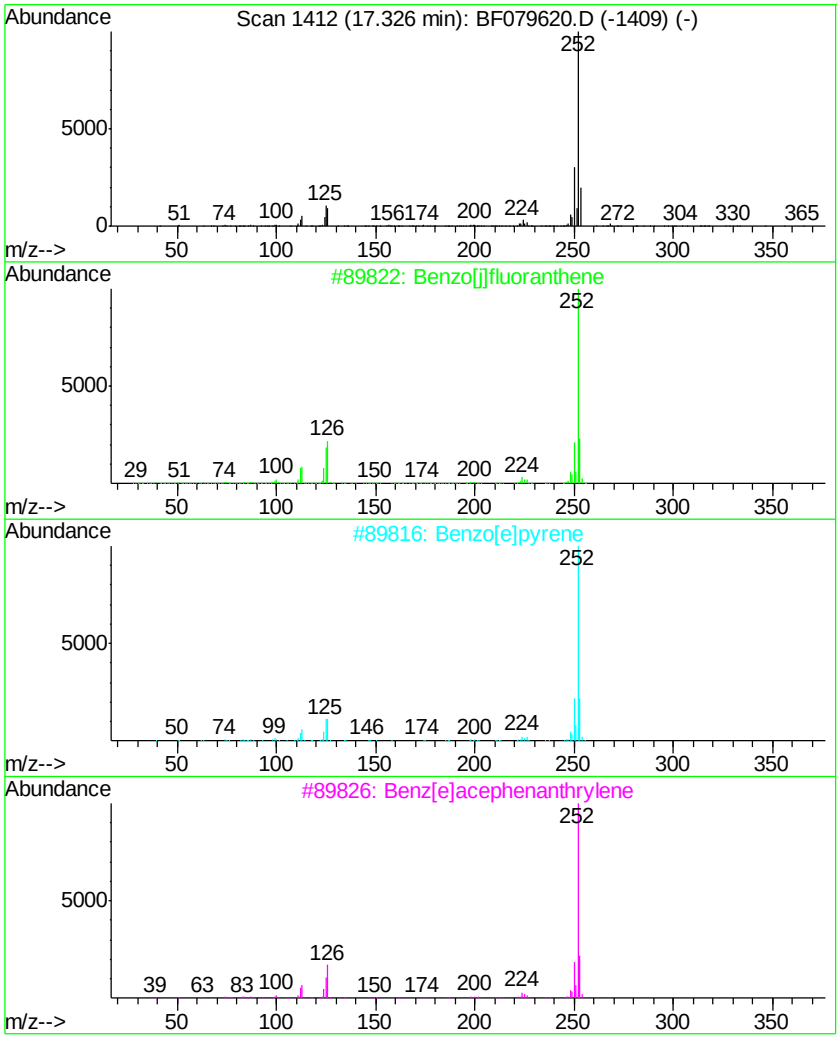
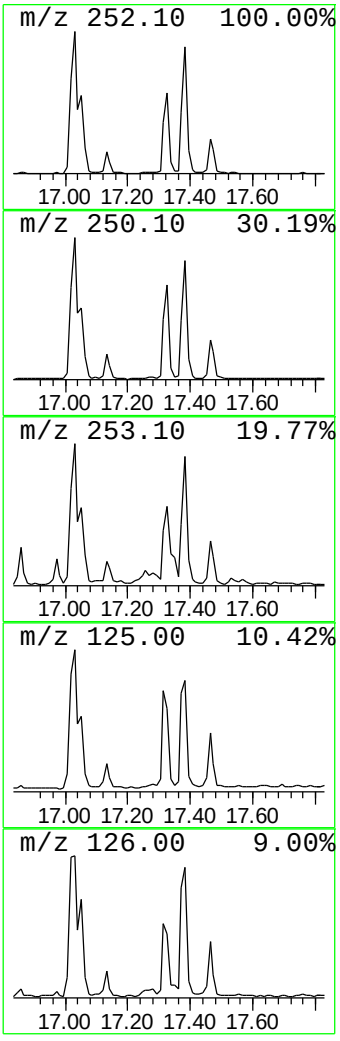
Peak Number 16 Benzo[j]fluoranthene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.33	16.94 ng	531824	Perylene-d12	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[j]fluoranthene	252	C20H12	000205-82-3	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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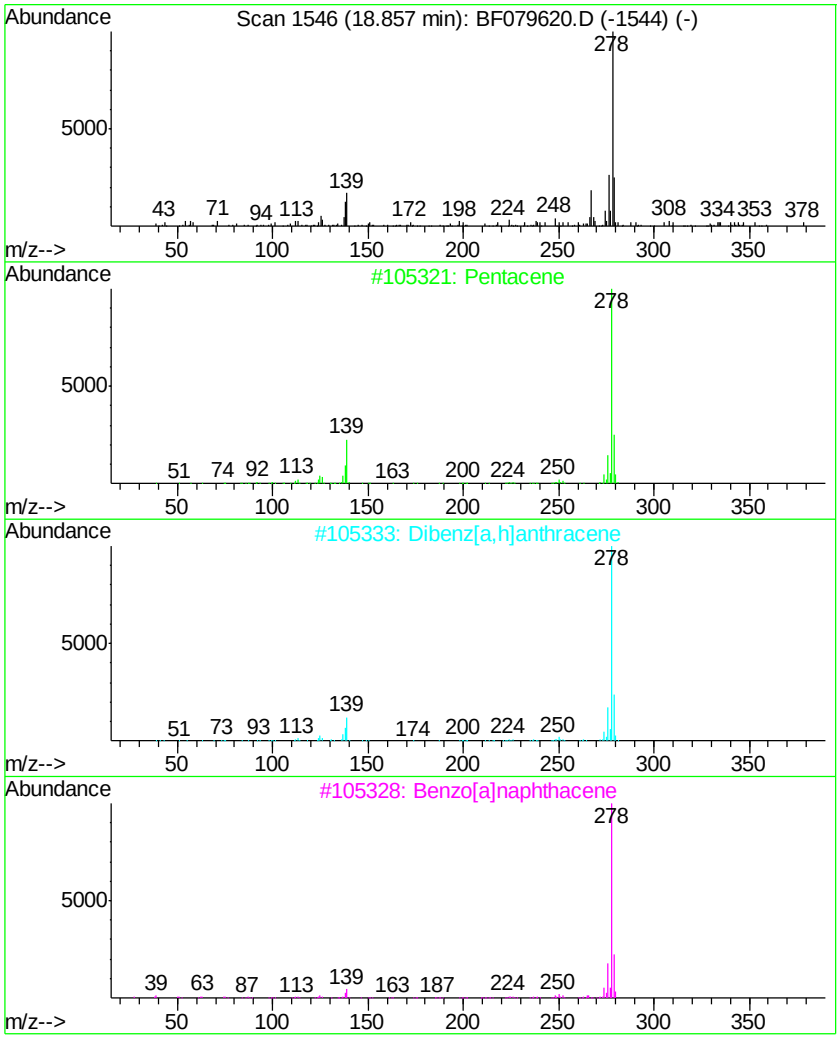
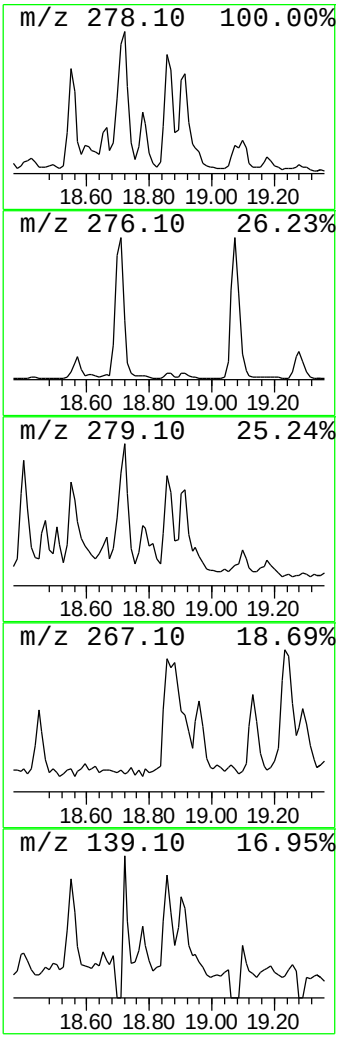
Peak Number 17 Pentacene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	3.30 ng	103726	Perylene-d12	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacene	278	C22H14	000135-48-8	92
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	92
3	Benzo[a]naphthacene	278	C22H14	000226-88-0	86
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	83
5	Dibenzo-1,2,7,8-anthracene	278	C22H14	000224-41-9	70





Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PENRD8.6(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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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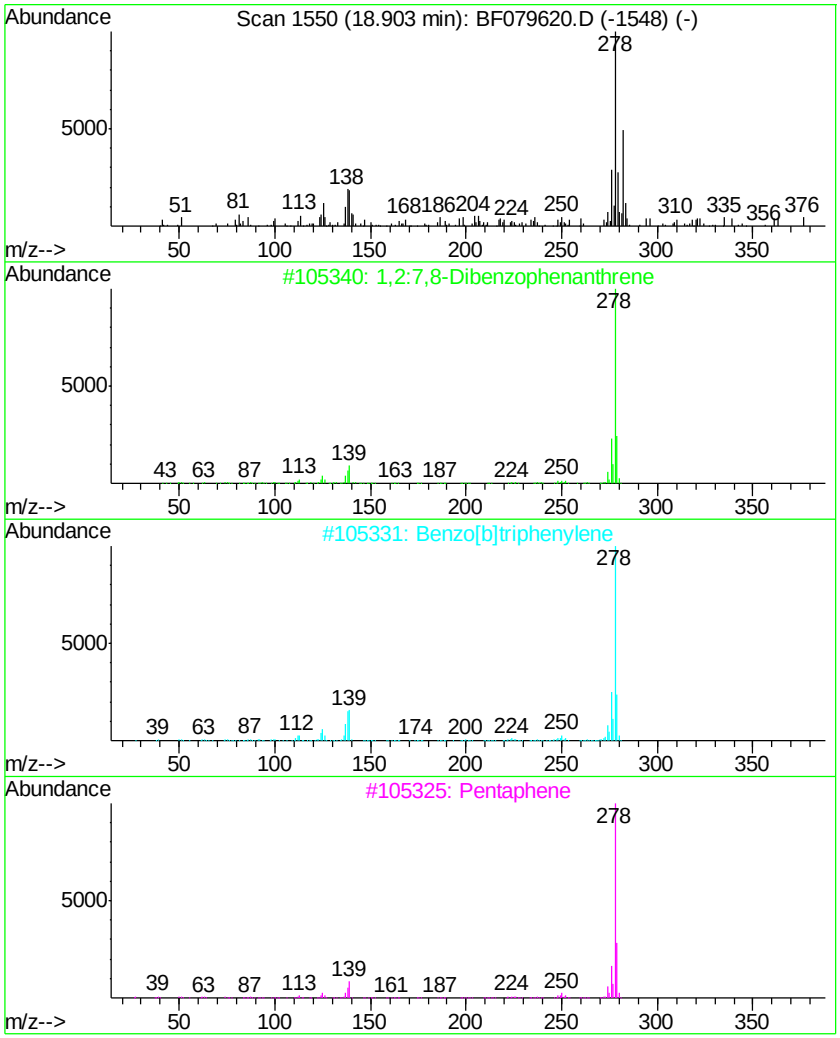
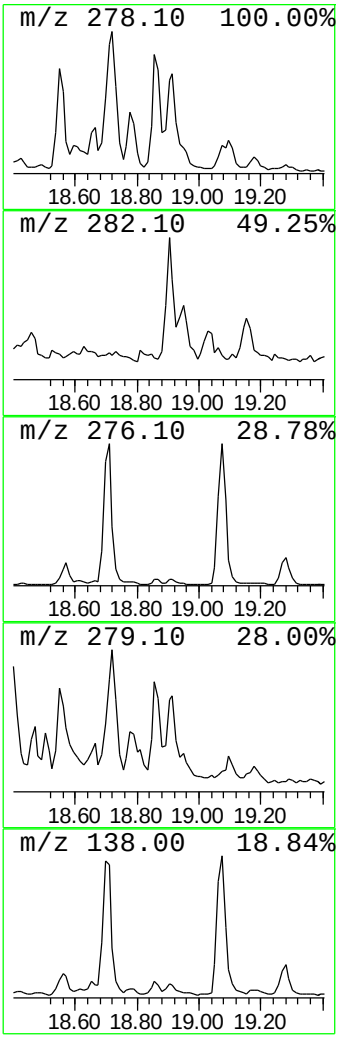
Peak Number 18 1,2:7,8-Dibenzophenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.90	2.61 ng	81946	Perylene-d12	17.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	89
3	Pentaphene	278	C22H14	000222-93-5	70
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	64
5	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079620.D
Acq On : 30 May 2015 23:33
Operator : TP/IZ
Sample : G2420-12 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
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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
unknown6.65	6.65	16.7	ng	311840	1	6.94	372711	20.0
Phenanthrene, 2-m...	13.17	2.7	ng	98769	4	12.51	726687	20.0
4H-Cyclopenta[def...	13.27	5.9	ng	213155	4	12.51	726687	20.0
2-Phenylnaphthalene	13.51	2.4	ng	86158	4	12.51	726687	20.0
9,10-Anthracenedione	13.54	2.9	ng	104093	4	12.51	726687	20.0
11H-Benzo[b]fluorene	14.71	2.5	ng	230778	5	15.78	1823890	20.0
11H-Benzo[a]fluor...	15.60	2.1	ng	190327	5	15.78	1823890	20.0
Cyclopenta(cd)pyr...	15.91	3.1	ng	286992	5	15.78	1823890	20.0
5,12-Naphthacened...	16.66	2.6	ng	80881	6	17.44	627937	20.0
Chalcone, 4-nitro...	16.86	3.8	ng	118143	6	17.44	627937	20.0
Benzo[j]fluoranthene	17.33	16.9	ng	531824	6	17.44	627937	20.0
Pentacene	18.86	3.3	ng	103726	6	17.44	627937	20.0
1,2:7,8-Dibenzoph...	18.90	2.6	ng	81946	6	17.44	627937	20.0