

Data Path : U:\HPCHEM1\BNA F\DATA\BF020718\
 Data File : BF102807.D
 Acq On : 7 Feb 2018 11:32
 Operator : SJ/JU
 Sample : PB106326BS
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 08 00:39:56 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	191110	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	803559	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	365270	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	645001	20.00	ng	0.00
75) Chrysene-d12	14.05	240	420383	20.00	ng	0.00
86) Perylene-d12	15.53	264	344075	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.51	112	1428973	113.55	ng	0.02
7) Phenol-d6	6.52	99	1732023	114.31	ng	0.01
23) Nitrobenzene-d5	7.45	82	1078301	93.09	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	386732	131.54	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	1836510	83.43	ng	0.00
78) Terphenyl-d14	13.00	244	1677765	94.50	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.74	88	208510	33.546	ng	87
3) Pyridine	3.52	79	618268	36.003	ng	91
4) n-Nitrosodimethylamine	3.46	42	297781	40.529	ng	96
6) Aniline	6.55	93	507255	22.669	ng	95
8) 2-Chlorophenol	6.67	128	525692	40.577	ng	95
9) Benzaldehyde	6.43	77	166653	14.810	ng	93
10) Phenol	6.53	94	674234	41.521	ng	98
11) bis(2-Chloroethyl)ether	6.62	93	509941	37.740	ng	90
12) 1,3-Dichlorobenzene	6.82	146	550772	36.712	ng	98
13) 1,4-Dichlorobenzene	6.90	146	552464	36.967	ng	100
14) 1,2-Dichlorobenzene	7.05	146	512611	36.826	ng	100
15) Benzyl Alcohol	7.02	79	477005	40.947	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.16	45	936974	36.504	ng	97
17) 2-Methylphenol	7.13	107	464912	38.904	ng	99
18) Hexachloroethane	7.39	117	204273	39.860	ng	94
19) n-Nitroso-di-n-propylamine	7.30	70	361606	36.196	ng	95
20) 3+4-Methylphenols	7.29	107	538834	36.564	ng	# 75
22) Acetophenone	7.29	105	717364	36.481	ng	# 93
24) Nitrobenzene	7.46	77	568012	41.682	ng	98
25) Isophorone	7.70	82	1054367	39.529	ng	100
26) 2-Nitrophenol	7.78	139	304287	53.210	ng	98
27) 2,4-Dimethylphenol	7.82	122	506088	44.911	ng	100
28) bis(2-Chloroethoxy)methane	7.91	93	650363	41.160	ng	99
29) 2,4-Dichlorophenol	8.02	162	451037	44.029	ng	97
30) 1,2,4-Trichlorobenzene	8.10	180	433084	37.371	ng	98
31) Naphthalene	8.19	128	1497961	38.155	ng	99
32) Benzoic acid	7.95	122	396560	49.291	ng	99
33) 4-Chloroaniline	8.23	127	232292	13.735	ng	99
34) Hexachlorobutadiene	8.30	225	218229	36.749	ng	98
35) Caprolactam	8.62	113	105886	29.763	ng	# 79
36) 4-Chloro-3-methylphenol	8.72	107	500985	43.526	ng	97
37) 2-Methylnaphthalene	8.88	142	1009810	39.286	ng	100
39) 1,2,4,5-Tetrachlorobenzene	9.05	216	375484	37.753	ng	98
40) Hexachlorocyclopentadiene	9.03	237	399580	84.514	ng	99

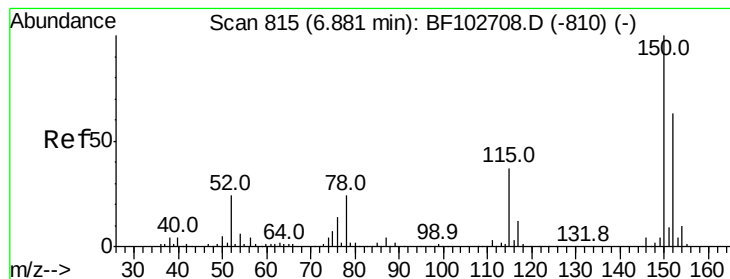
Data Path : U:\HPCHEM1\BNA F\DATA\BF020718\
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.16	196	303455	46.453	ng	98
43) 2,4,5-Trichlorophenol	9.20	196	315953	42.912	ng	98
45) 1,1'-Biphenyl	9.35	154	1163145	37.807	ng	98
46) 2-Chloronaphthalene	9.37	162	942431	38.910	ng	99
47) 2-Nitroaniline	9.46	65	352377	47.209	ng	88
48) Acenaphthylene	9.79	152	1420271	37.754	ng	99
49) Dimethylphthalate	9.65	163	1113107	39.083	ng	100
50) 2,6-Dinitrotoluene	9.70	165	253897	46.857	ng	92
51) Acenaphthene	9.96	154	956006	42.494	ng	98
52) 3-Nitroaniline	9.87	138	188243	28.234	ng	94
53) 2,4-Dinitrophenol	9.98	184	218211	101.033	ng	# 19
54) Dibenzofuran	10.13	168	1262249	39.812	ng	97
55) 4-Nitrophenol	10.04	139	459268	83.631	ng	96
56) 2,4-Dinitrotoluene	10.11	165	349369	48.071	ng	97
57) Fluorene	10.47	166	942962	40.878	ng	100
58) 2,3,4,6-Tetrachlorophenol	10.25	232	239883	47.007	ng	99
59) Diethylphthalate	10.35	149	1129241	40.155	ng	97
60) 4-Chlorophenyl-phenylether	10.46	204	418406	41.002	ng	99
61) 4-Nitroaniline	10.49	138	277391	43.710	ng	95
62) Azobenzene	10.62	77	1073760	38.220	ng	96
64) 4,6-Dinitro-2-methylphenol	10.52	198	147393	52.982	ng	94
65) n-Nitrosodiphenylamine	10.58	169	894622	39.322	ng	98
66) 4-Bromophenyl-phenylether	10.95	248	275796	40.422	ng	96
67) Hexachlorobenzene	11.02	284	290658	38.616	ng	# 91
68) Atrazine	11.11	200	275449	41.039	ng	99
69) Pentachlorophenol	11.22	266	309247	69.990	ng	98
70) Phenanthrene	11.44	178	1384128	38.531	ng	99
71) Anthracene	11.49	178	1432944	39.220	ng	100
72) Carbazole	11.64	167	1345490	37.590	ng	99
73) Di-n-butylphthalate	11.97	149	1697383	39.038	ng	99
74) Fluoranthene	12.62	202	1424295	39.408	ng	98
76) Benzidine	12.74	184	159061	8.233	ng	97
77) Pyrene	12.85	202	1410545	42.790	ng	99
79) Butylbenzylphthalate	13.47	149	703502	44.688	ng	95
80) Benzo(a)anthracene	14.04	228	1108188	41.916	ng	99
81) 3,3'-Dichlorobenzidine	14.00	252	270149	27.559	ng	95
82) Chrysene	14.08	228	1056376	39.637	ng	99
83) Bis(2-ethylhexyl)phthalate	14.02	149	866699	42.919	ng	100
84) Di-n-octyl phthalate	14.63	149	1331033	43.897	ng	99
85) Indeno(1,2,3-cd)pyrene	17.02	276	949936	42.976	ng	99
87) Benzo(b)fluoranthene	15.09	252	973313	43.631	ng	97
88) Benzo(k)fluoranthene	15.12	252	821320	38.533	ng	99
89) Benzo(a)pyrene	15.46	252	862580	42.958	ng	# 97
90) Dibenzo(a,h)anthracene	17.04	278	776678	47.655	ng	100
91) Benzo(g,h,i)perylene	17.48	276	823452	51.620	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

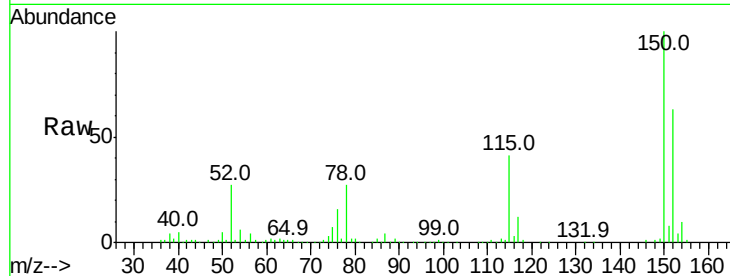


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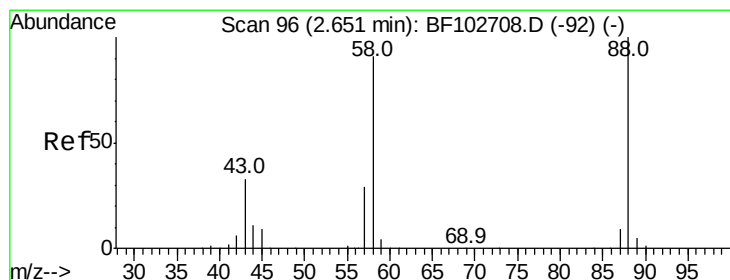
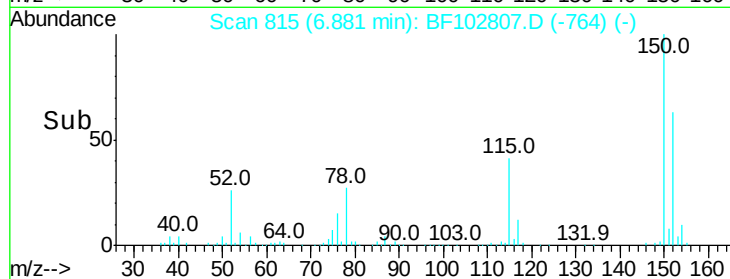
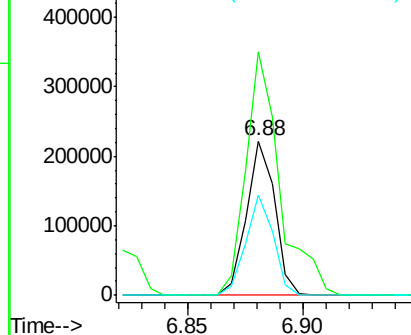
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102807.D
Acq: 7 Feb 2018 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 191110
Ion Ratio Lower Upper
152 100
150 158.0 124.6 186.8
115 65.0 50.1 75.1



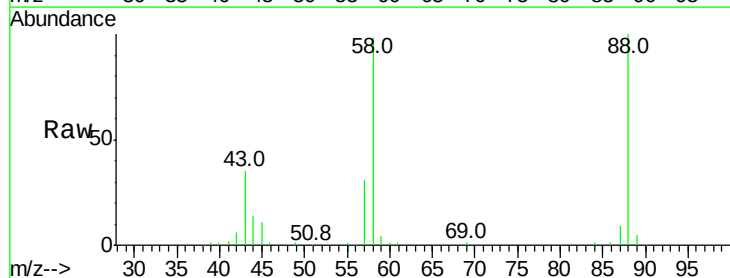
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



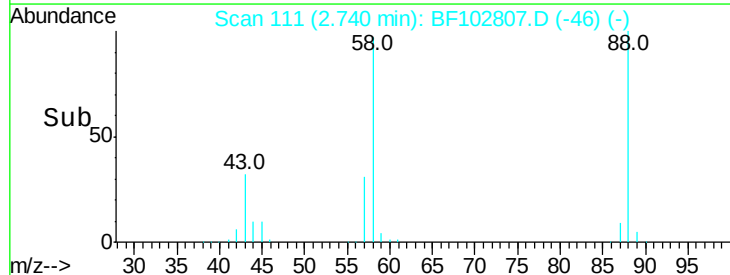
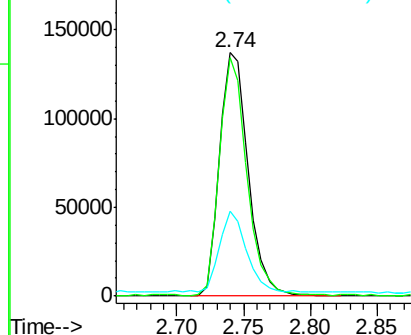
#2

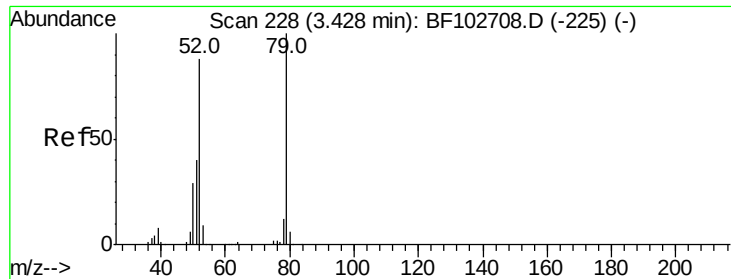
1,4-Dioxane
Concen: 33.546 ng
RT: 2.74 min Scan# 111
Delta R.T. 0.08 min
Lab File: BF102807.D
Acq: 7 Feb 2018 11:32

Tgt Ion: 88 Resp: 208510
Ion Ratio Lower Upper
88 100
58 93.2 62.6 93.8
43 31.6 24.6 37.0



Abundance Ion 88.00 (87.70 to 88.70): BF1
Ion 58.00 (57.70 to 58.70): BF1
Ion 43.00 (42.70 to 43.70): BF1

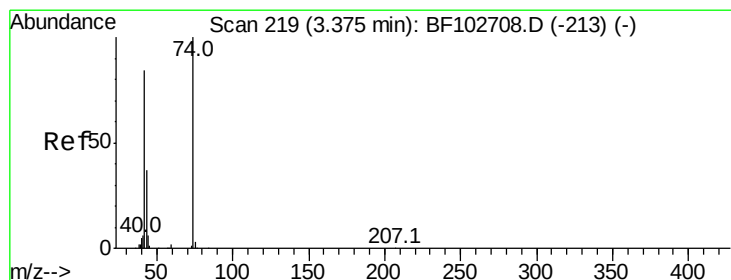
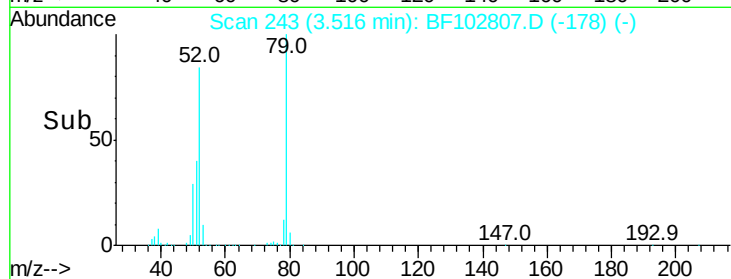
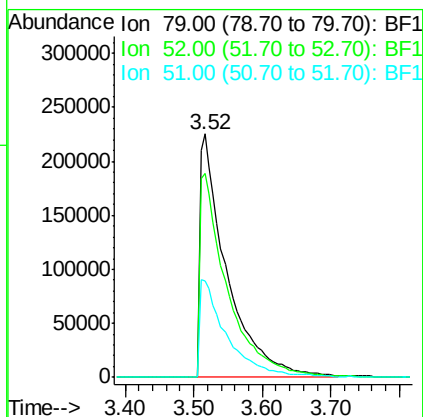
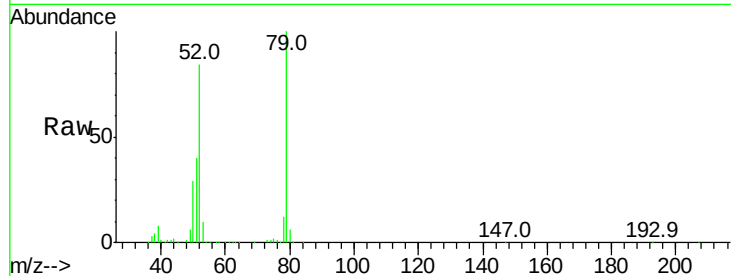




#3
 Pvridine
 Concen: 36.003 ng
 RT: 3.52 min Scan# 243
 Delta R.T. 0.08 min
 Lab File: BF102807.D
 Acq: 7 Feb 2018 11:32

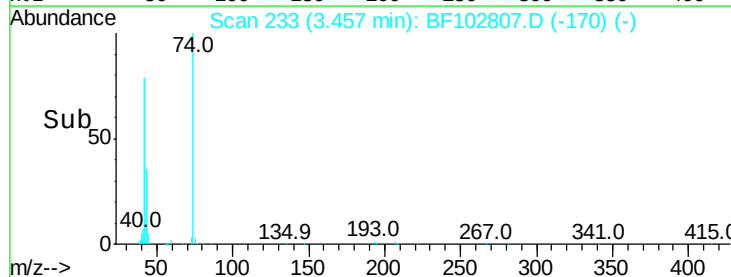
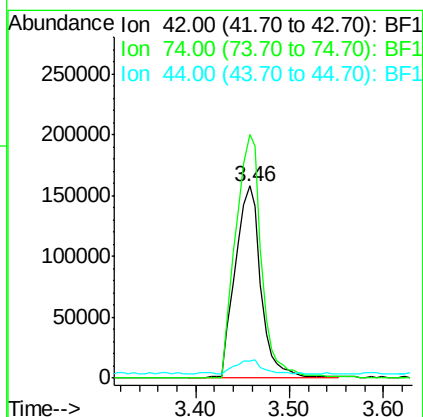
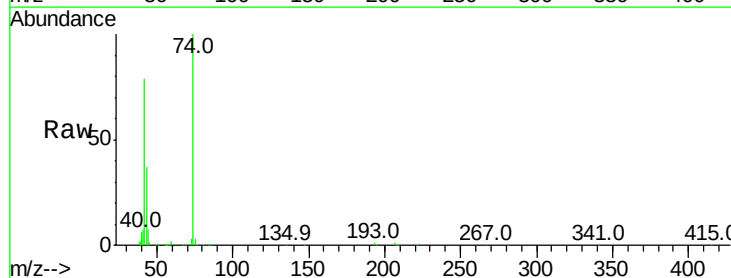
Instrument :
 BNA_F
 ClientSampleId :

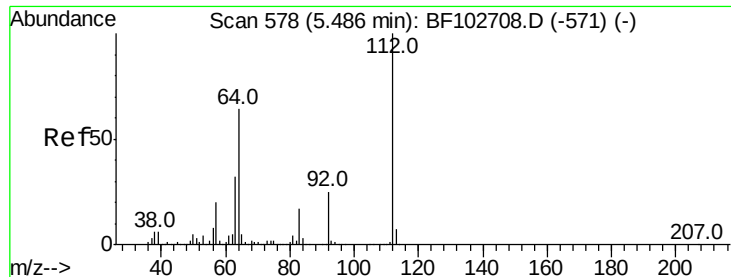
Tot Ion: 79 Resp: 618268
 Ion Ratio Lower Upper
 79 100
 52 83.9 59.8 89.6
 51 39.8 29.8 44.8



#4
 n-Nitrosodimethylamine
 Concen: 40.529 ng
 RT: 3.46 min Scan# 233
 Delta R.T. 0.07 min
 Lab File: BF102807.D
 Acq: 7 Feb 2018 11:32

Tgt Ion: 42 Resp: 297781
 Ion Ratio Lower Upper
 42 100
 74 126.7 104.9 157.3
 44 9.2 6.9 10.3





#5

2-Fluorophenol

Concen: 113.554 ng

RT: 5.51 min Scan# 582

Delta R.T. 0.02 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Instrument :

BNA_F

ClientSampleId :

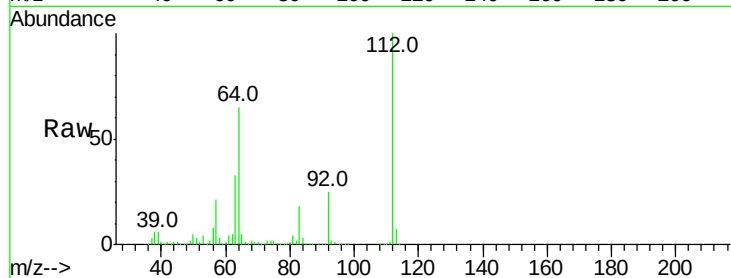
Tot Ion:112 Resp: 1428973

Ion Ratio Lower Upper

112 100

64 64.9 47.9 71.9

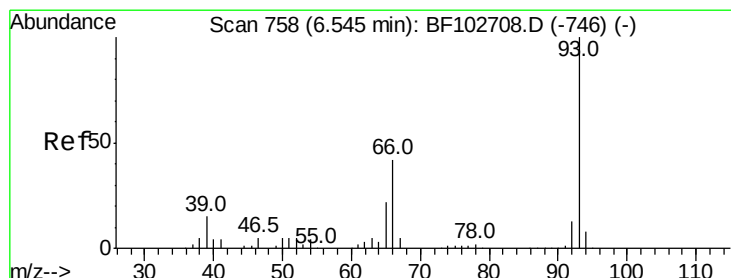
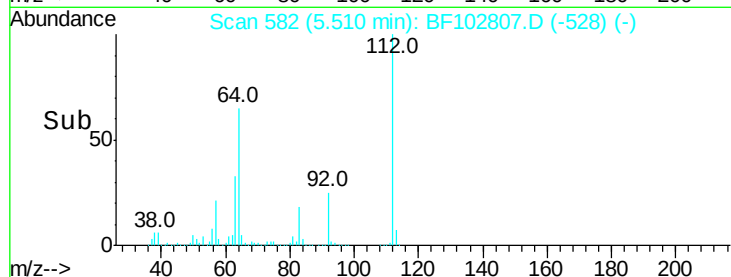
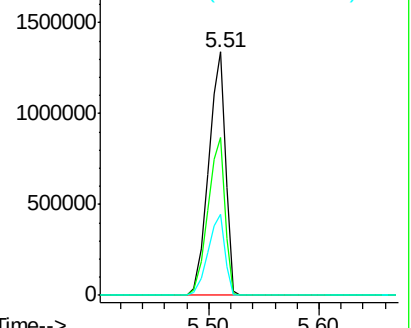
63 33.5 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 22.669 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

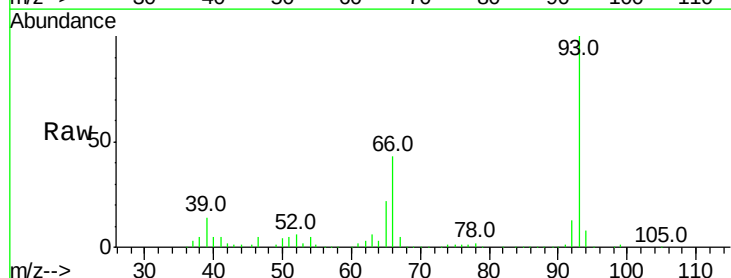
Tgt Ion: 93 Resp: 507255

Ion Ratio Lower Upper

93 100

66 43.5 32.2 48.2

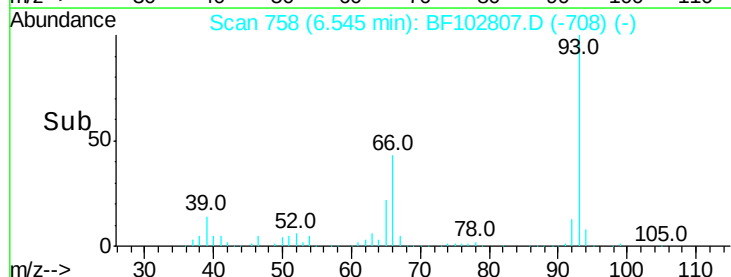
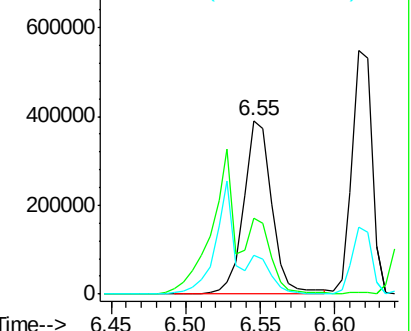
65 22.5 16.4 24.6

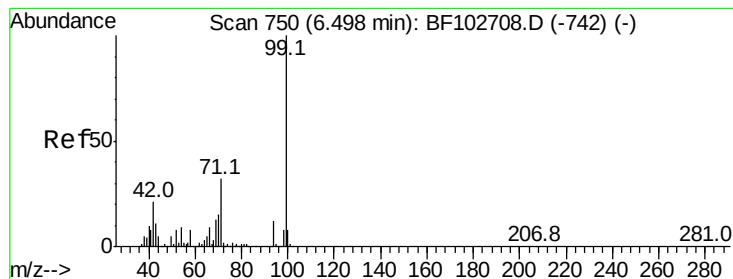


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 114.309 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

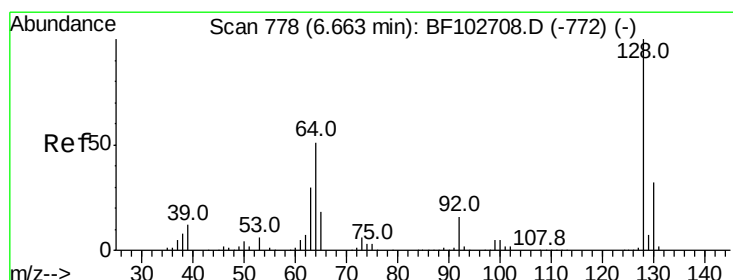
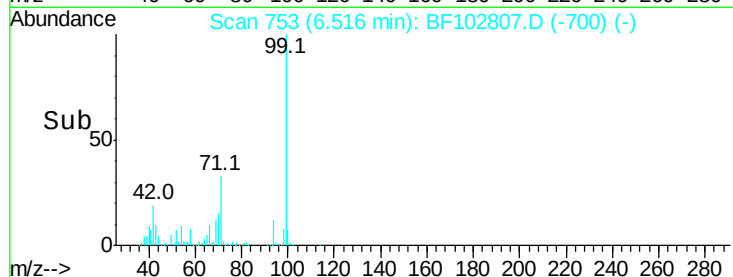
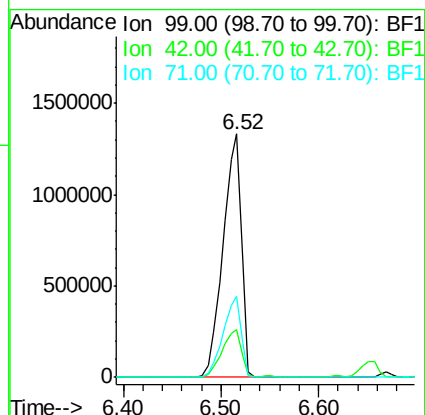
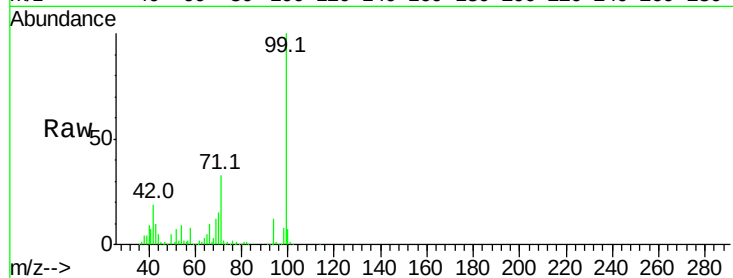
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1732023

Ion	Ratio	Lower	Upper
99	100		
42	19.4	14.5	21.7
71	33.1	25.4	38.0



#8

2-Chlorophenol

Concen: 40.577 ng

RT: 6.67 min Scan# 779

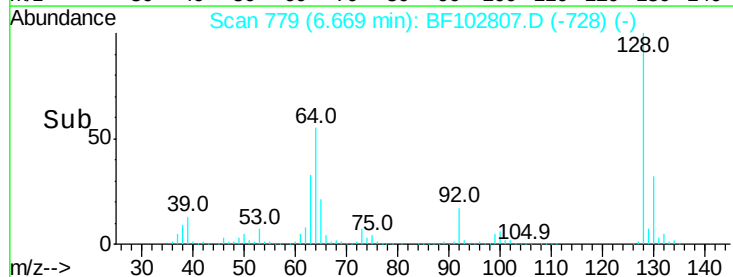
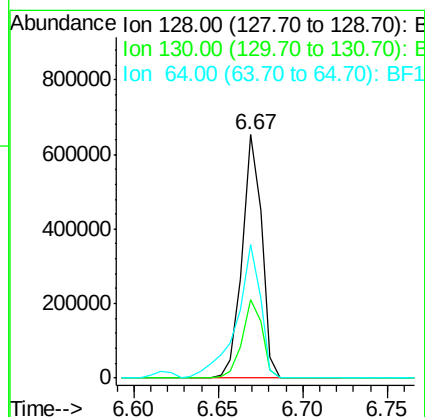
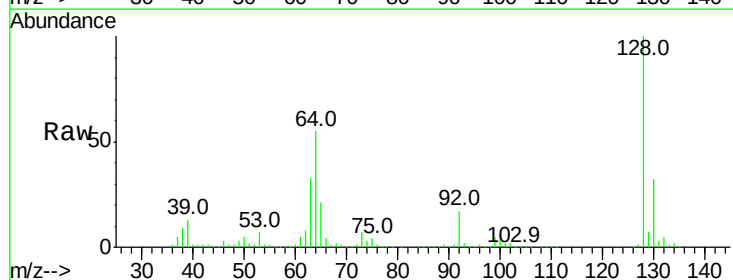
Delta R.T. 0.00 min

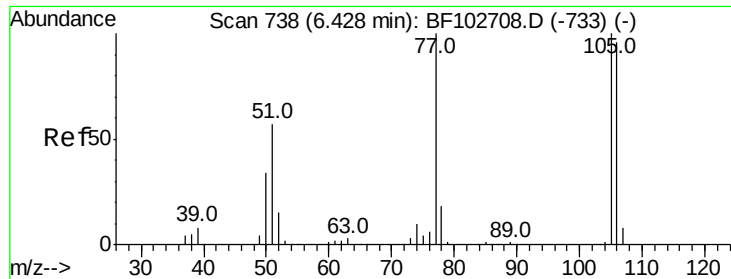
Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Tgt Ion: 128 Resp: 525692

Ion	Ratio	Lower	Upper
128	100		
130	32.2	13.0	53.0
64	54.7	29.4	69.4





#9

Benzaldehyde

Concen: 14.810 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.00 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Instrument :

BNA_F

ClientSampled :

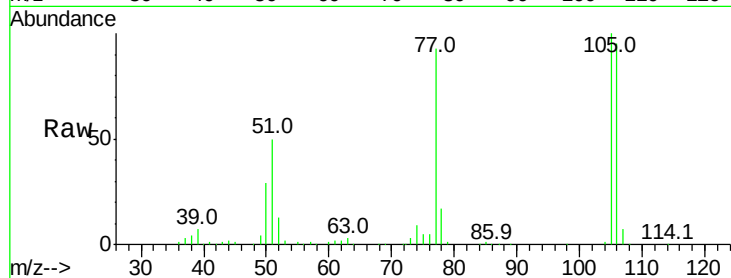
Tot Ion: 77 Resp: 166653

Ion Ratio Lower Upper

77 100

105 107.9 81.1 121.1

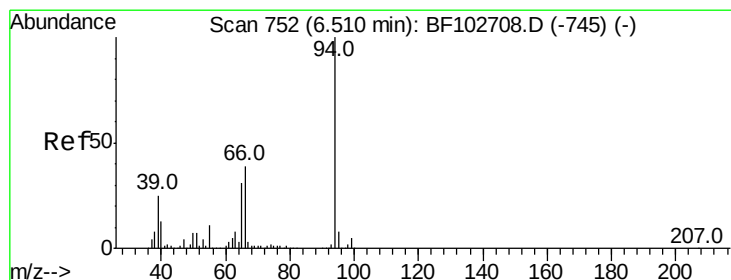
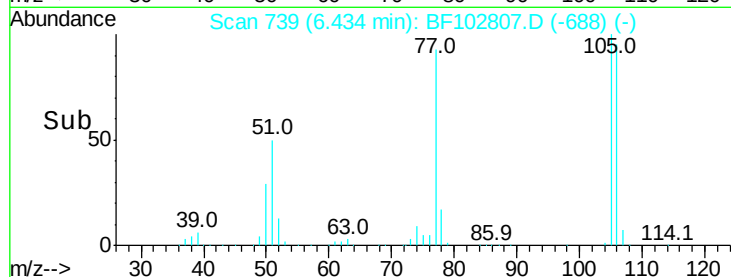
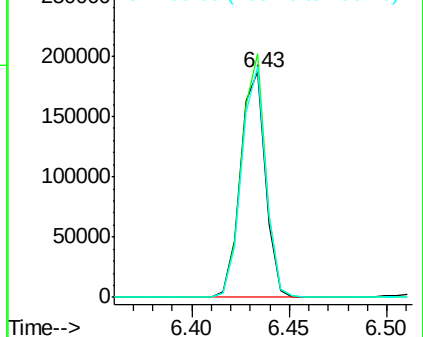
106 102.3 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 41.521 ng

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

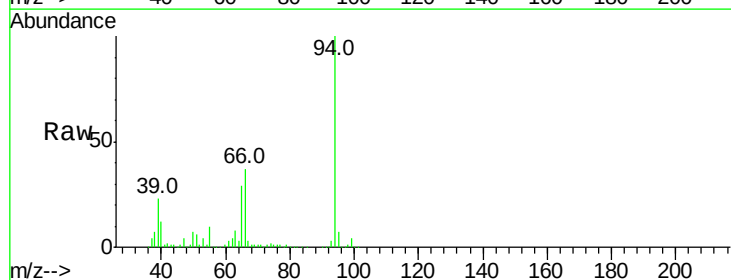
Tgt Ion: 94 Resp: 674234

Ion Ratio Lower Upper

94 100

65 29.3 7.9 47.9

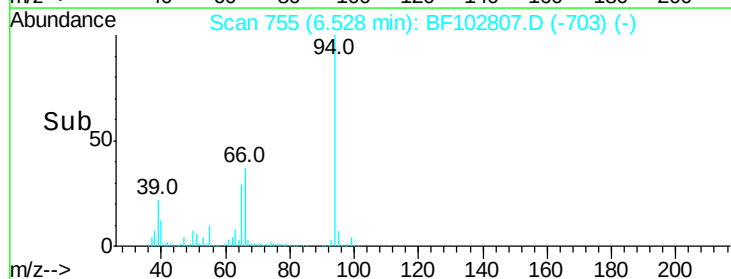
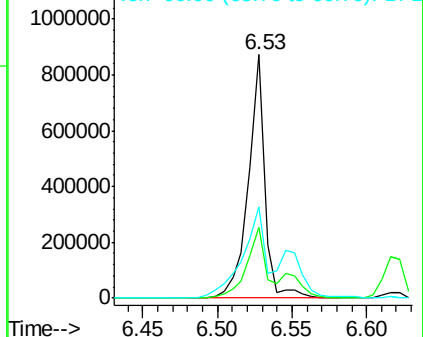
66 37.3 16.2 56.2

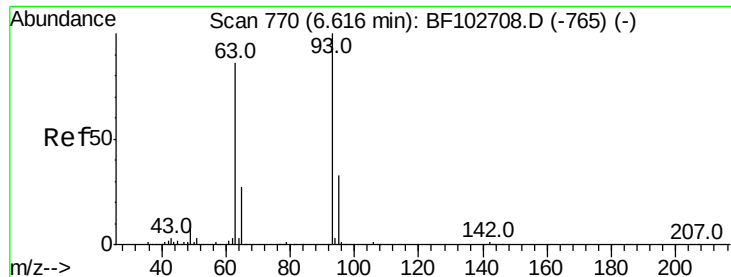


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#11

bis(2-Chloroethyl)ether

Concen: 37.740 ng

RT: 6.62 min Scan# 770

Delta R.T. -0.01 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Instrument :

BNA_F

ClientSampleId :

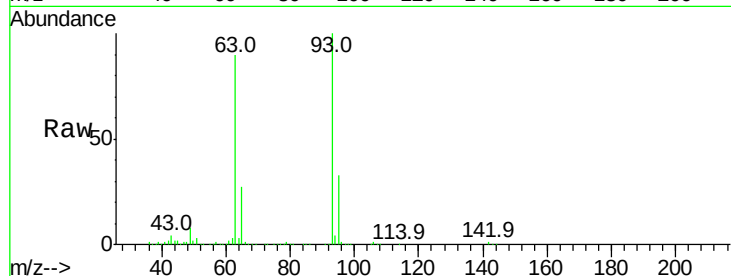
Tot Ion: 93 Resp: 509941

Ion Ratio Lower Upper

93 100

63 89.8 58.6 98.6

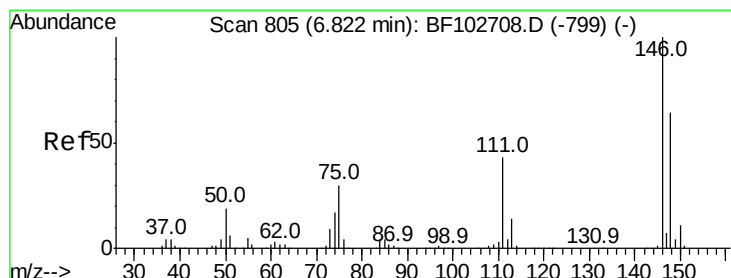
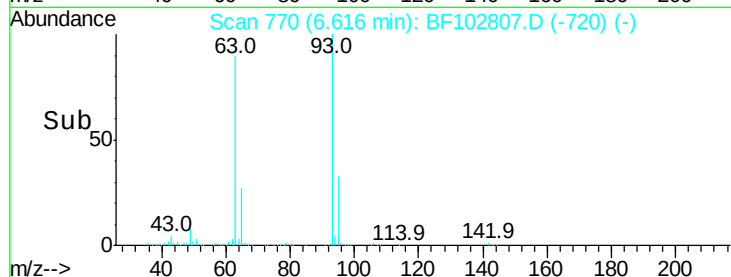
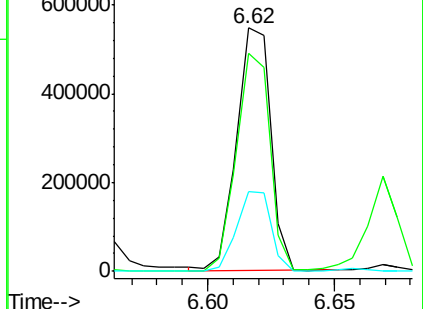
95 32.7 11.8 51.8



Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Ion 95.00 (94.70 to 95.70): BF1



#12

1,3-Dichlorobenzene

Concen: 36.712 ng

RT: 6.82 min Scan# 805

Delta R.T. 0.00 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

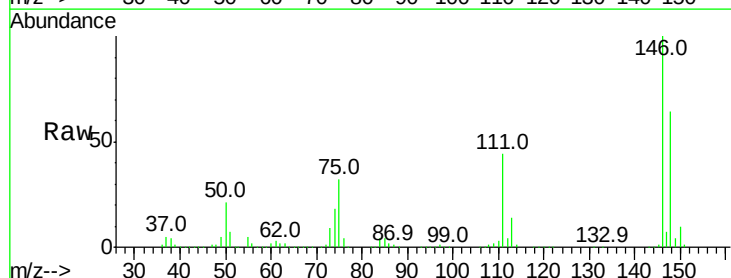
Tgt Ion: 146 Resp: 550772

Ion Ratio Lower Upper

146 100

148 64.1 51.8 77.8

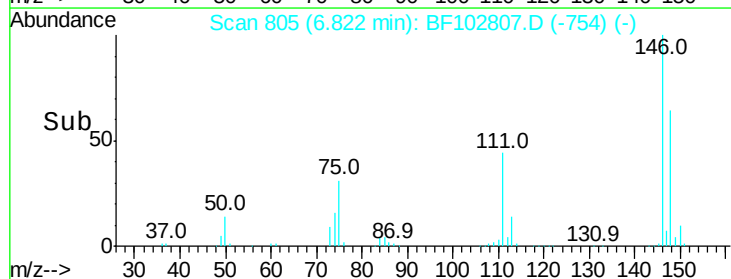
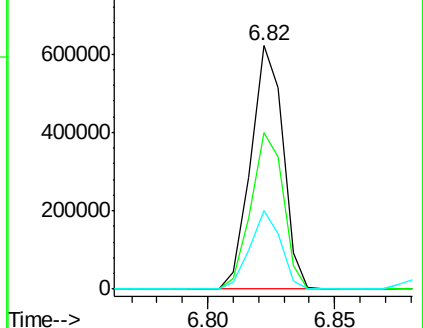
75 32.3 24.2 36.4

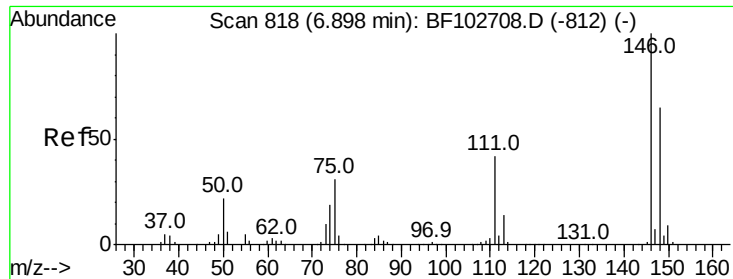


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF1

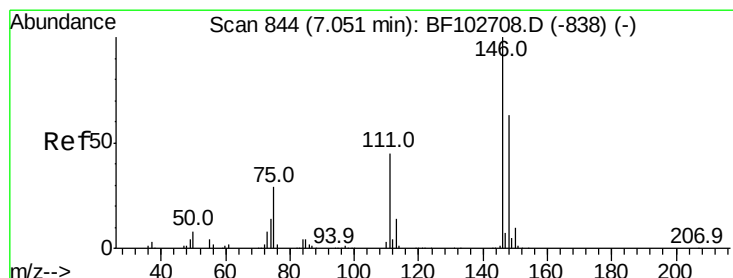
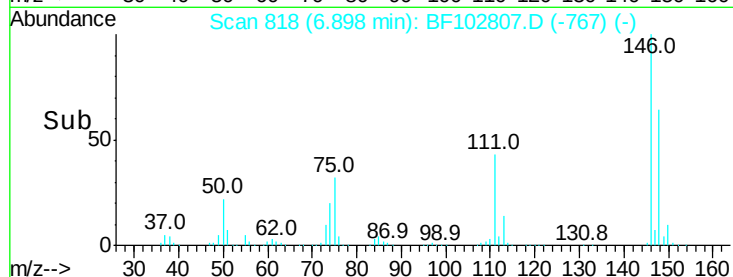
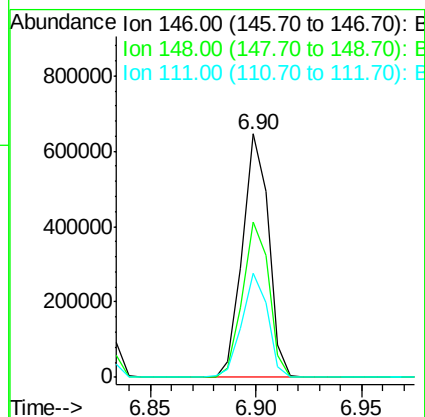
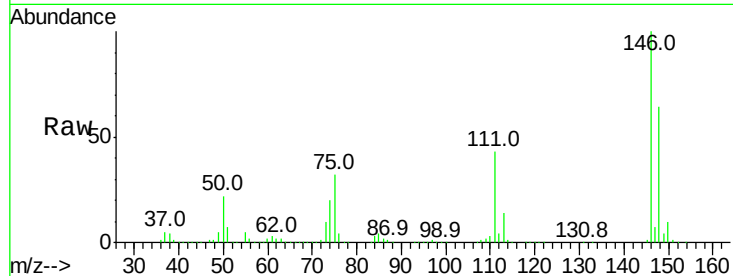




#13
 1,4-Dichlorobenzene
 Concen: 36.967 ng
 RT: 6.90 min Scan# 818
 Delta R.T. 0.00 min
 Lab File: BF102807.D
 Acq: 7 Feb 2018 11:32

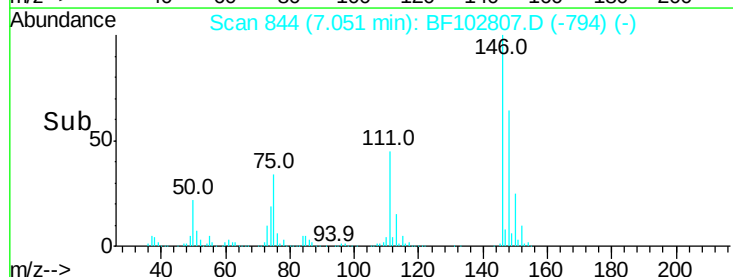
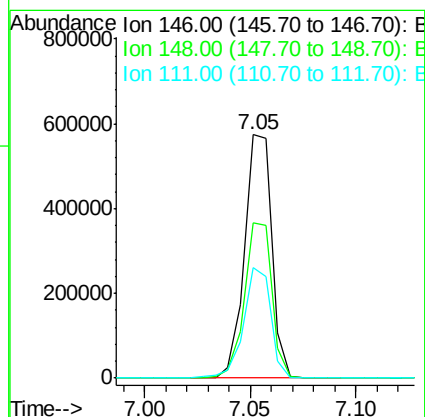
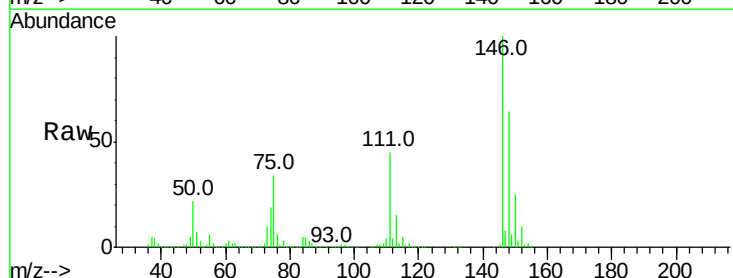
Instrument :
 BNA_F
 ClientSampleId :

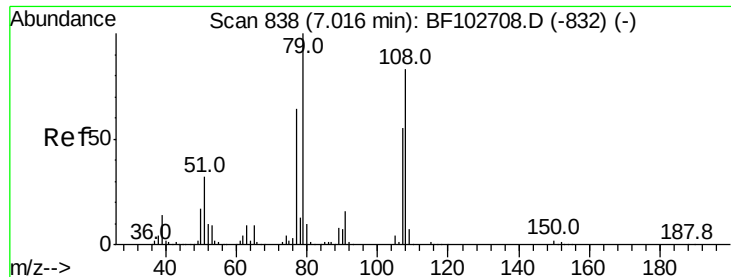
Tot Ion:146 Resp: 552464
 Ion Ratio Lower Upper
 146 100
 148 63.7 50.8 76.2
 111 42.9 34.2 51.2



#14
 1,2-Dichlorobenzene
 Concen: 36.826 ng
 RT: 7.05 min Scan# 844
 Delta R.T. -0.01 min
 Lab File: BF102807.D
 Acq: 7 Feb 2018 11:32

Tgt Ion:146 Resp: 512611
 Ion Ratio Lower Upper
 146 100
 148 63.6 50.6 75.8
 111 45.2 36.0 54.0





#15

Benzyl Alcohol

Concen: 40.947 ng

RT: 7.02 min Scan# 839

Delta R.T. 0.00 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Instrument :

BNA_F

ClientSampleId :

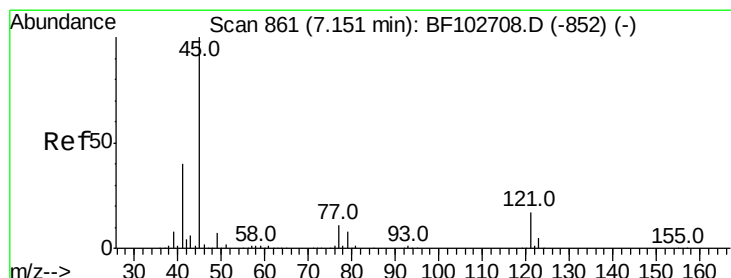
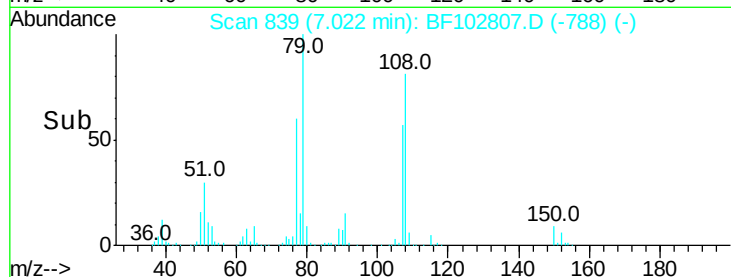
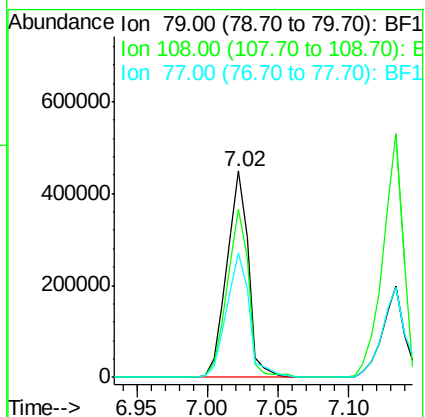
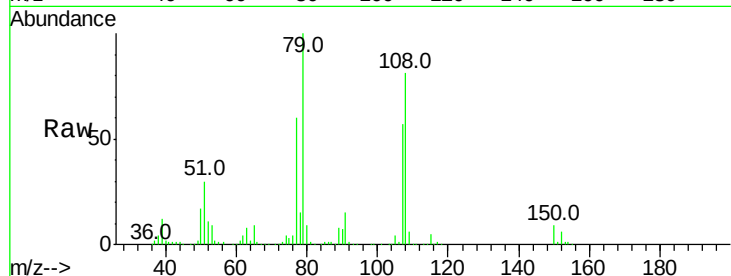
Tot Ion: 79 Resp: 477005

Ion Ratio Lower Upper

79 100

108 81.2 65.1 97.7

77 60.2 50.6 75.8



#16

2,2'-oxybis(1-chloropropane)

Concen: 36.504 ng

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

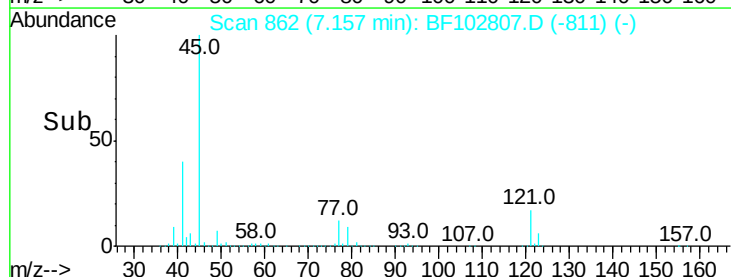
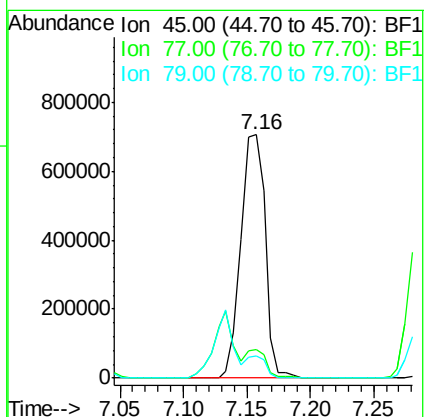
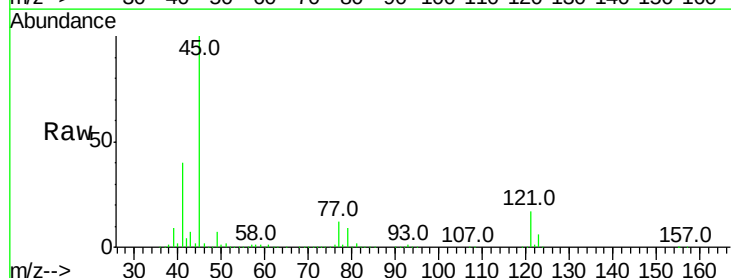
Tgt Ion: 45 Resp: 936974

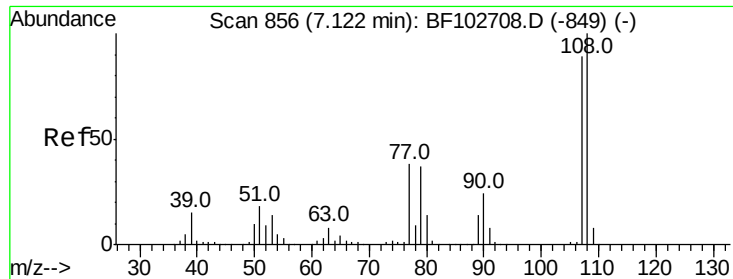
Ion Ratio Lower Upper

45 100

77 11.6 0.0 32.9

79 9.0 0.0 29.6

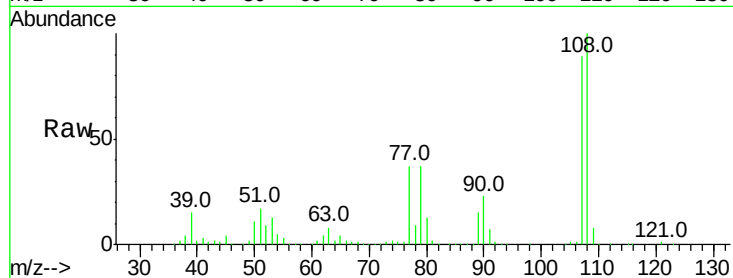




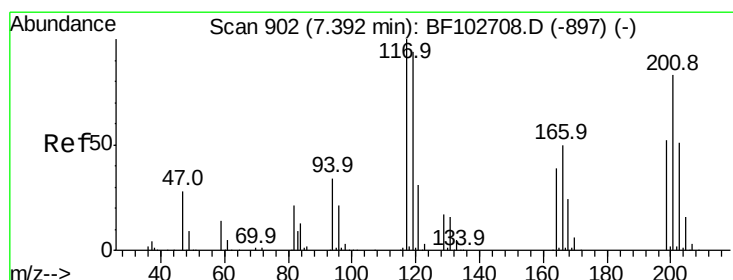
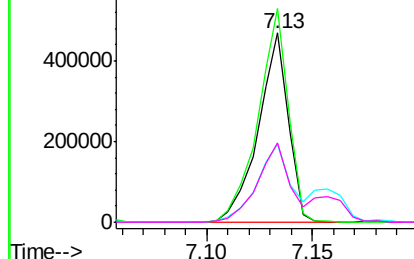
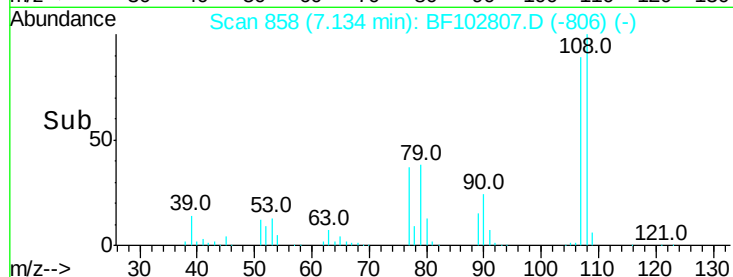
#17
2-Methylphenol
Concen: 38.904 ng
RT: 7.13 min Scan# 858
Delta R.T. 0.01 min
Lab File: BF102807.D
Acq: 7 Feb 2018 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:107 Resp: 464912
Ion Ratio Lower Upper
107 100
108 112.9 91.7 137.5
77 41.5 33.8 50.8
79 42.2 33.8 50.8

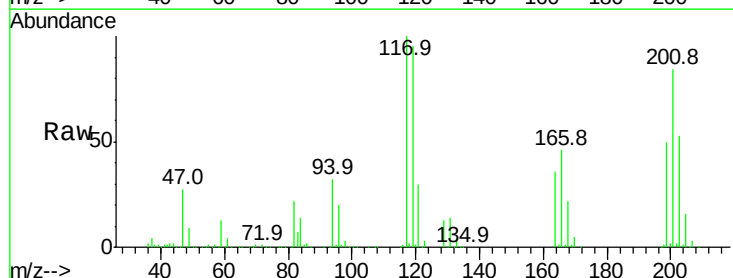


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1

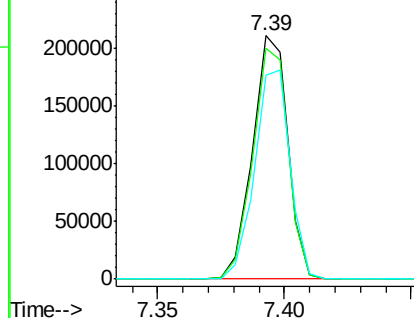
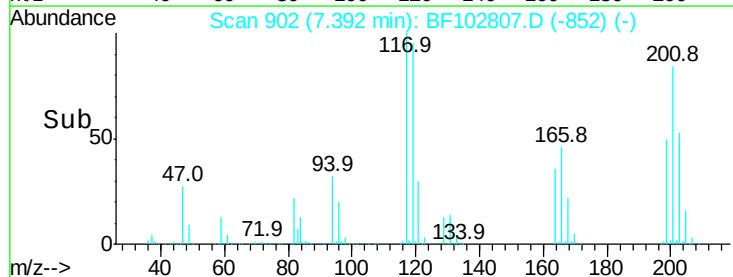


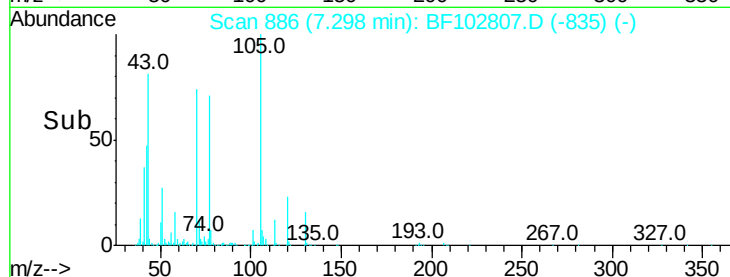
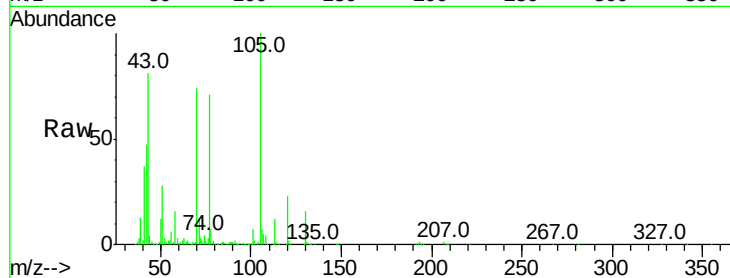
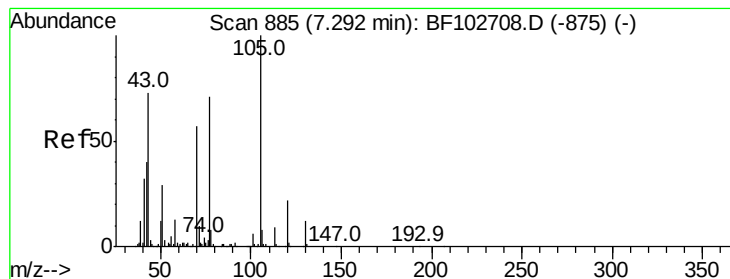
#18
Hexachloroethane
Concen: 39.860 ng
RT: 7.39 min Scan# 902
Delta R.T. -0.01 min
Lab File: BF102807.D
Acq: 7 Feb 2018 11:32

Tgt Ion:117 Resp: 204273
Ion Ratio Lower Upper
117 100
119 94.8 75.8 113.8
201 83.6 75.7 113.5



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 36.196 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.00 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 361606

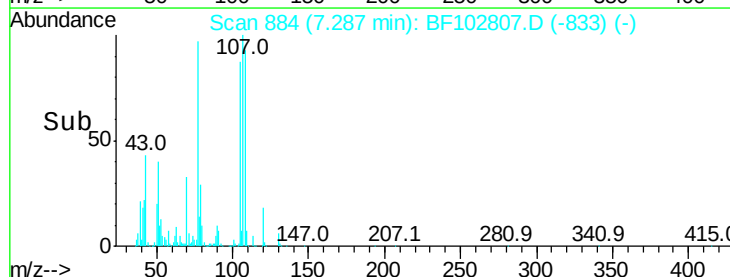
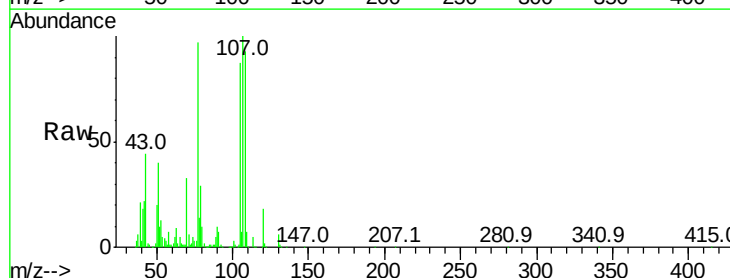
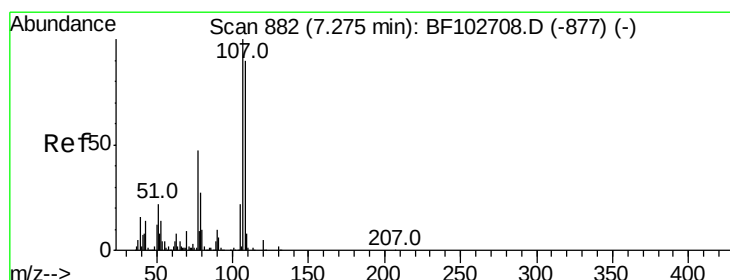
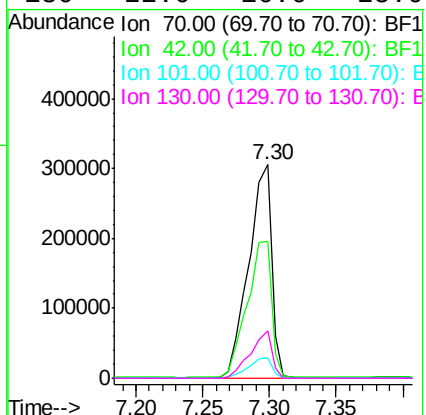
Ion Ratio Lower Upper

70 100

42 64.4 47.5 71.3

101 9.8 7.4 11.2

130 22.0 16.6 25.0



#20

3+4-Methylphenols

Concen: 36.564 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.00 min

Lab File: BF102807.D

Acq: 7 Feb 2018 11:32

Tgt Ion: 107 Resp: 538834

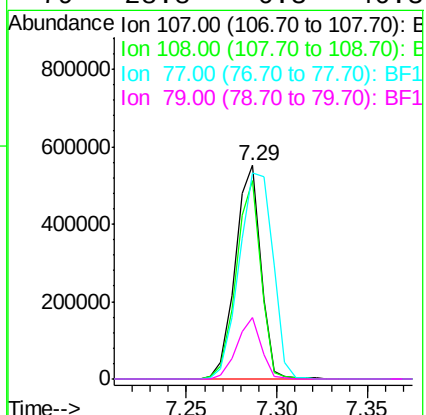
Ion Ratio Lower Upper

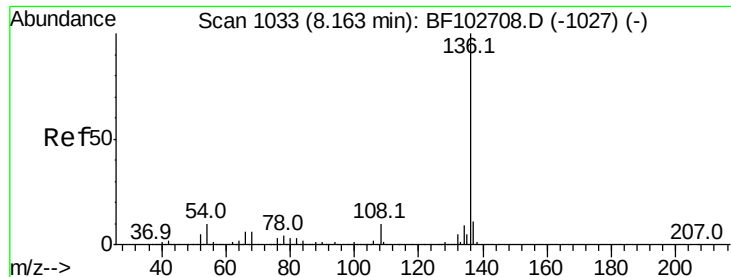
107 100

108 92.8 68.2 108.2

77 96.6 26.7 66.7#

79 28.8 6.3 46.3

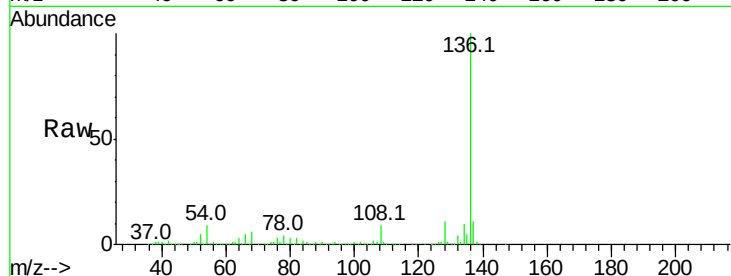




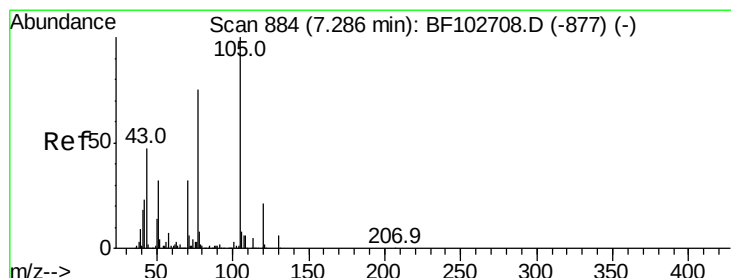
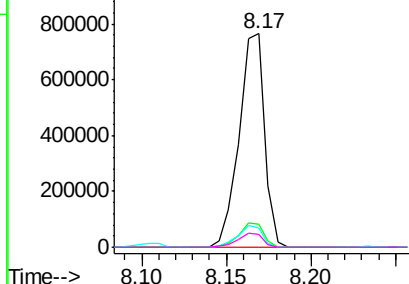
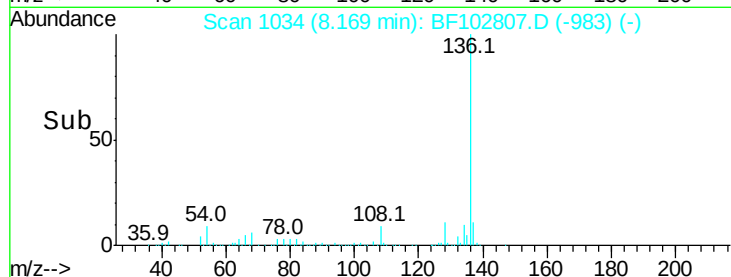
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1034
Delta R.T. 0.00 min
Lab File: BF102807.D
Acq: 7 Feb 2018 11:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	803559
Ion Ratio	Lower	Upper
136 100		
137 10.7	8.9	13.3
54 8.9	6.6	9.8
68 6.3	5.0	7.4

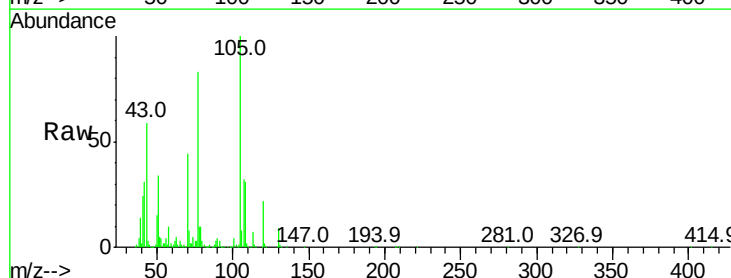


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1



#22
Acetophenone
Concen: 36.481 ng
RT: 7.29 min Scan# 885
Delta R.T. 0.00 min
Lab File: BF102807.D
Acq: 7 Feb 2018 11:32

Tgt	Ion:105	Resp:	717364
Ion	Ratio	Lower	Upper
105	100		
71	7.8	4.4	6.6#
51	33.8	22.3	33.5#
120	22.0	16.9	25.3



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BF1
Ion 51.00 (50.70 to 51.70): BF1
Ion 120.00 (119.70 to 120.70): E

