

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012318\
 Data File : BF102379.D
 Acq On : 24 Jan 2018 9:17
 Operator : SJ/JU
 Sample : J1239-13DL 25X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 24 10:06:27 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 23 00:43:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	125480	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	515034	20.00	ng	0.00
38) Acenaphthene-d10	9.74	164	220090	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	335172	20.00	ng	0.00
75) Chrysene-d12	13.87	240	249064	20.00	ng	0.00
86) Perylene-d12	15.29	264	221905	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	38239	4.62	ng	0.00
7) Phenol-d6	6.35	99	46060	4.62	ng	0.00
23) Nitrobenzene-d5	7.27	82	32554	3.63	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	8772	4.02	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	74321	4.97	ng	-0.01
78) Terphenyl-d14	12.82	244	53812	4.87	ng	0.00

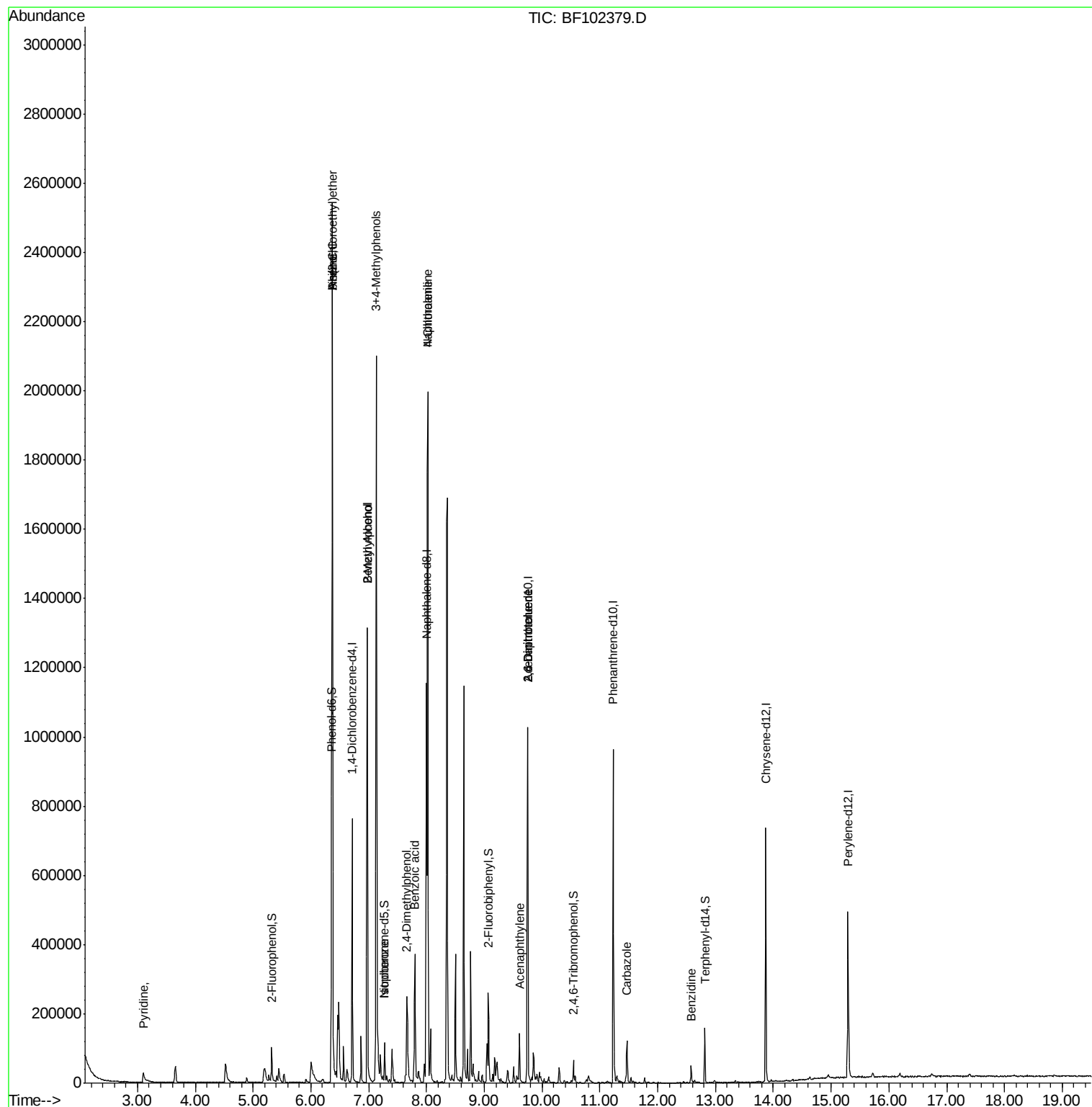
Target Compounds				Qvalue		
3) Pyridine	3.10	79	26579	2.587	ng	97
6) Aniline	6.37	93	65486	4.962	ng	# 1
10) Phenol	6.37	94	1012759	92.981	ng	98
11) bis(2-Chloroethyl)ether	6.37	93	65486	7.905	ng	# 40
15) Benzyl Alcohol	6.97	79	69720	9.904	ng	# 1
17) 2-Methylphenol	6.97	107	169338	22.476	ng	95
20) 3+4-Methylphenols	7.13	107	565790	63.852	ng	87
25) Isophorone	7.27	82	32554	2.037	ng	# 64
27) 2,4-Dimethylphenol	7.66	122	81954	11.692	ng	97
31) Naphthalene	8.02	128	894051	34.768	ng	100
32) Benzoic acid	7.80	122	80180	13.653	ng	# 13
33) 4-Chloroaniline	8.02	127	119343	11.037	ng	# 35
48) Acenaphthylene	9.61	152	54126	2.271	ng	98
50) 2,6-Dinitrotoluene	9.74	165	26766	6.824	ng	# 26
56) 2,4-Dinitrotoluene	9.74	165	26766	5.549	ng	# 23
72) Carbazole	11.47	167	52280	2.688	ng	97
76) Benzidine	12.57	184	28372	3.391	ng	# 94

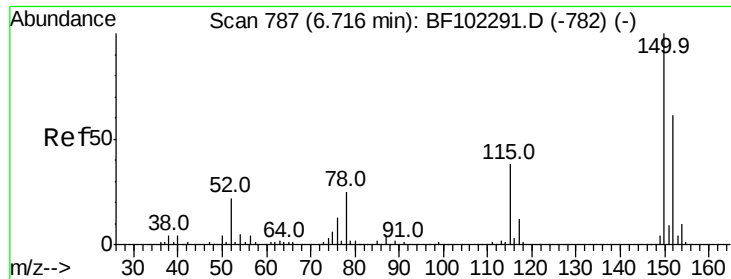
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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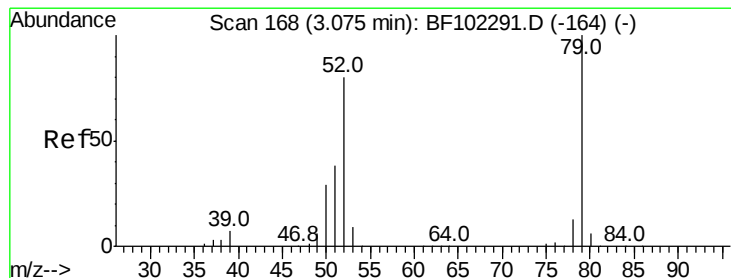
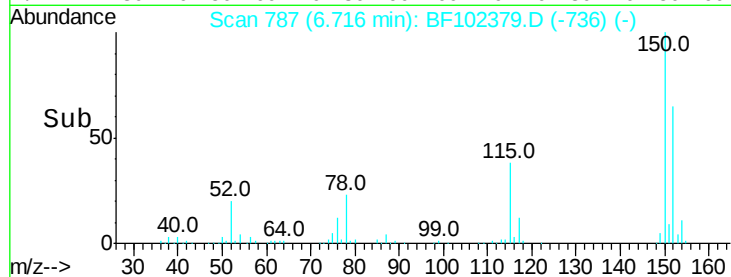
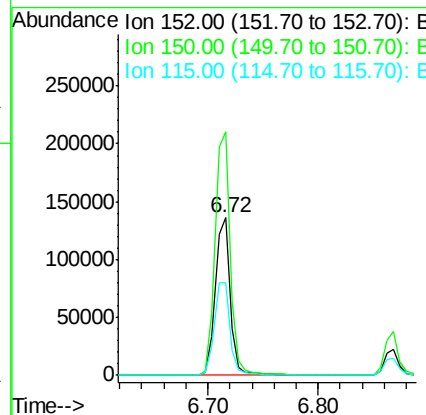
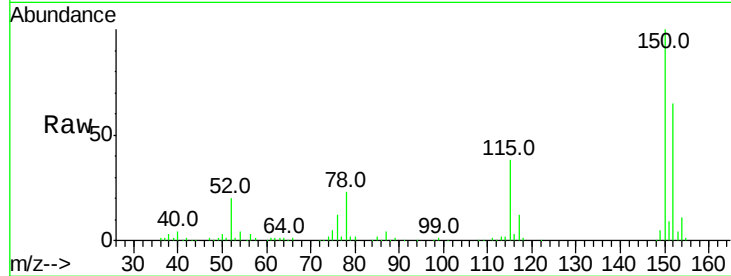


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Instrument :
BNA_F
ClientSampleId :

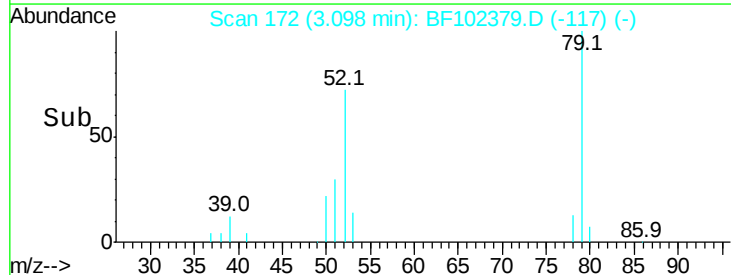
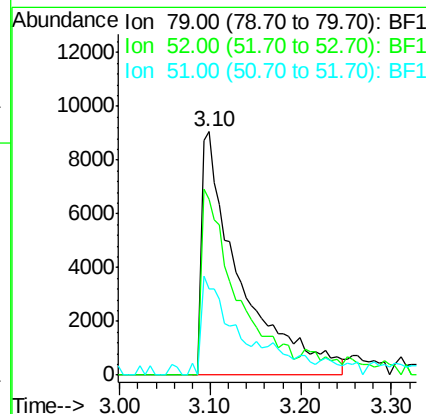
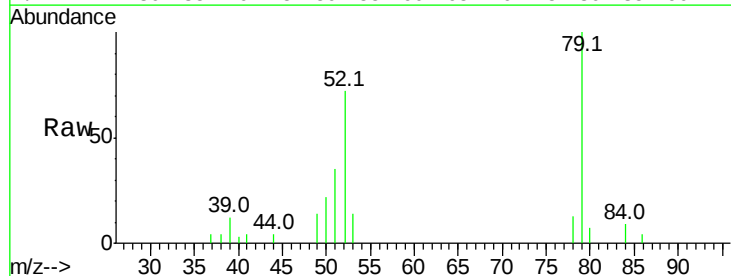
Tot Ion:152 Resp: 125480
Ion Ratio Lower Upper
152 100
150 154.7 124.6 186.8
115 58.6 50.1 75.1

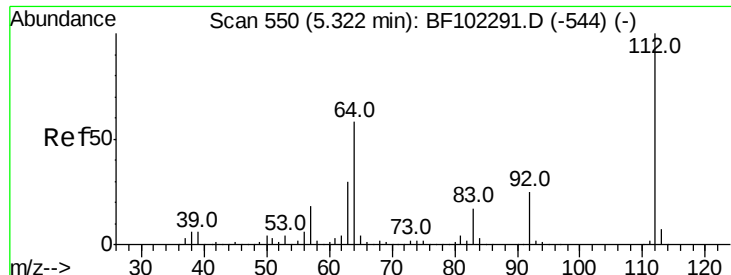


#3

Pyridine
Concen: 2.587 ng
RT: 3.10 min Scan# 172
Delta R.T. 0.02 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Tgt Ion: 79 Resp: 26579
Ion Ratio Lower Upper
79 100
52 72.1 59.8 89.6
51 35.3 29.8 44.8





#5

2-Fluorophenol

Concen: 4.621 ng

RT: 5.32 min Scan# 549

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampleId :

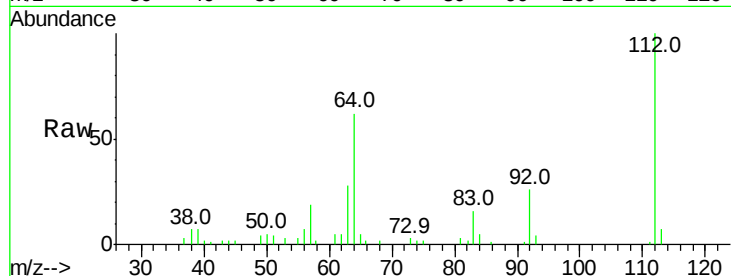
Tot Ion: 112 Resp: 38239

Ion Ratio Lower Upper

112 100

64 61.8 47.9 71.9

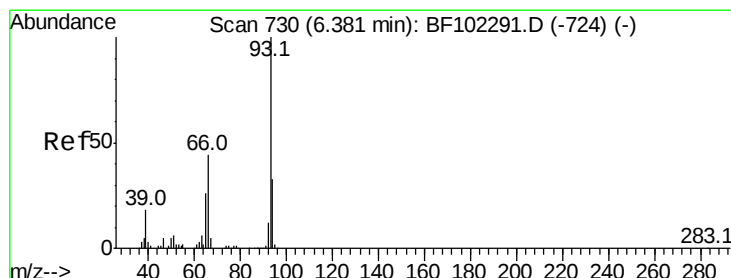
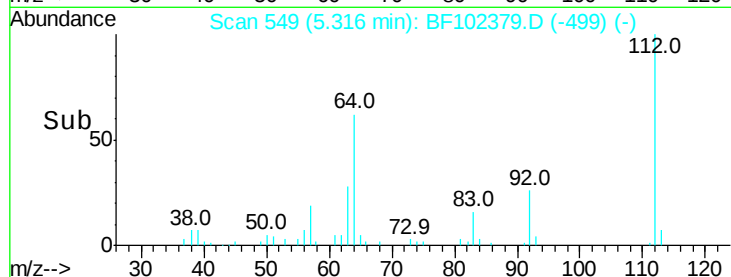
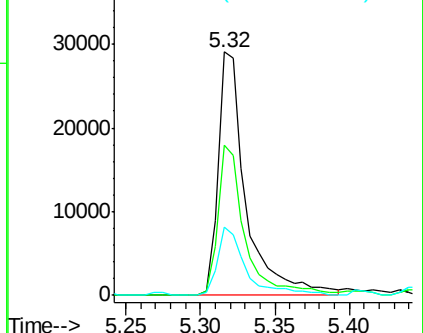
63 28.1 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 4.962 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

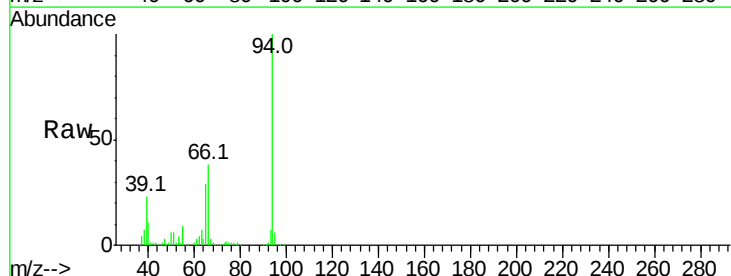
Tgt Ion: 93 Resp: 65486

Ion Ratio Lower Upper

93 100

66 569.1 32.2 48.2#

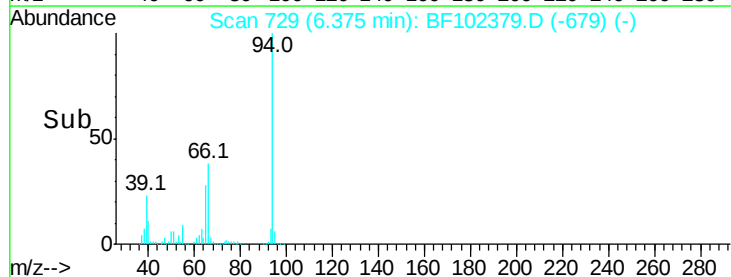
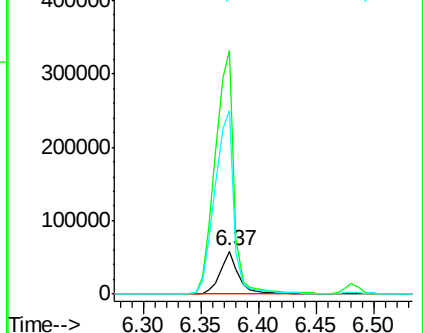
65 429.1 16.4 24.6#

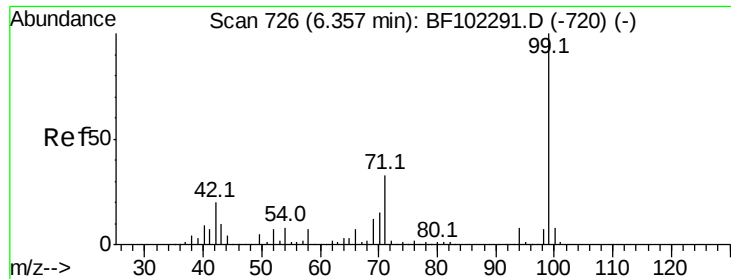


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 4.617 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampled :

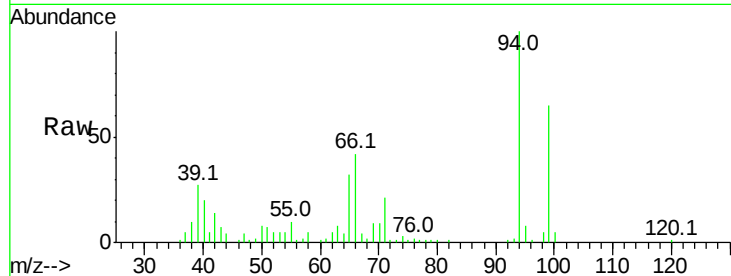
Tot Ion: 99 Resp: 46060

Ion Ratio Lower Upper

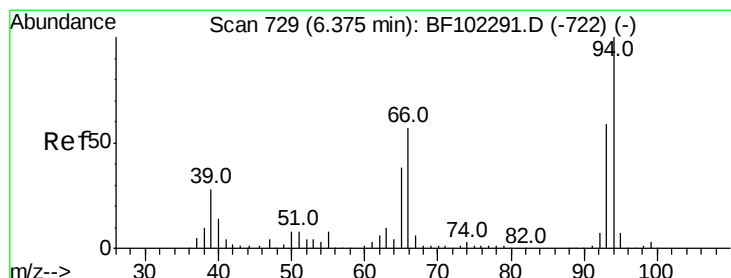
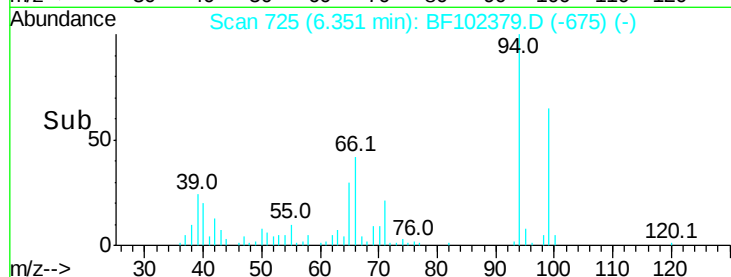
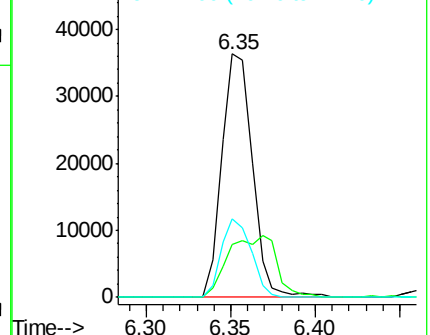
99 100

42 21.5 14.5 21.7

71 32.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 92.981 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.00 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

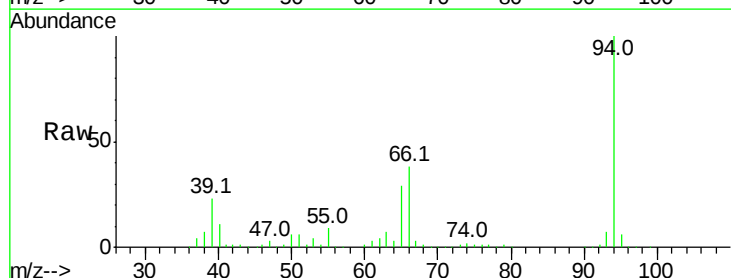
Tgt Ion: 94 Resp: 1012759

Ion Ratio Lower Upper

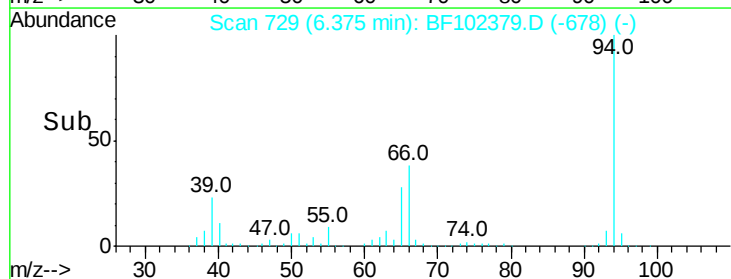
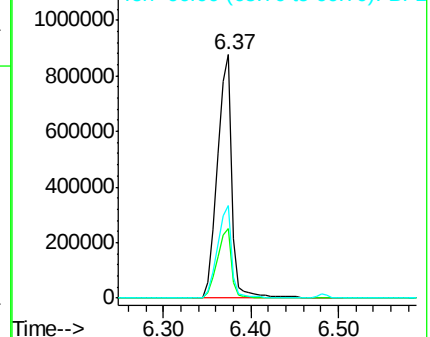
94 100

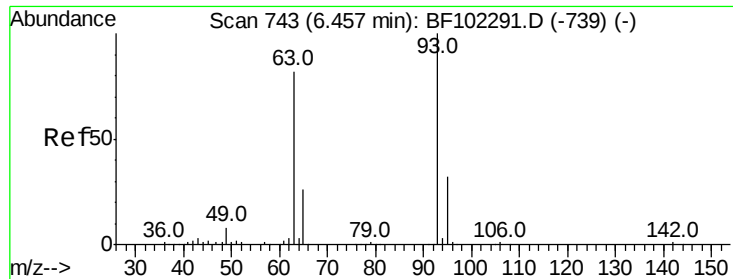
65 28.5 7.9 47.9

66 37.8 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: 7.905 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.08 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampleId :

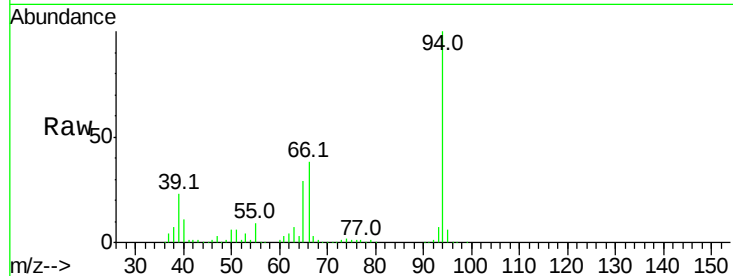
Tot Ion: 93 Resp: 65486

Ion Ratio Lower Upper

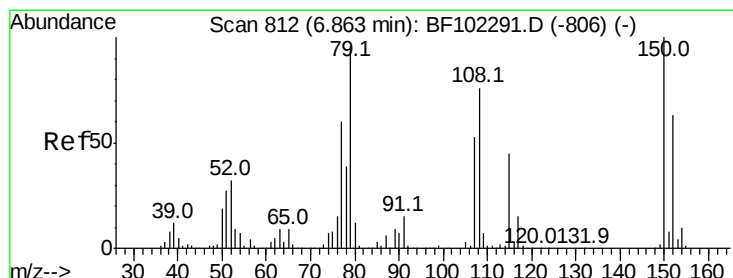
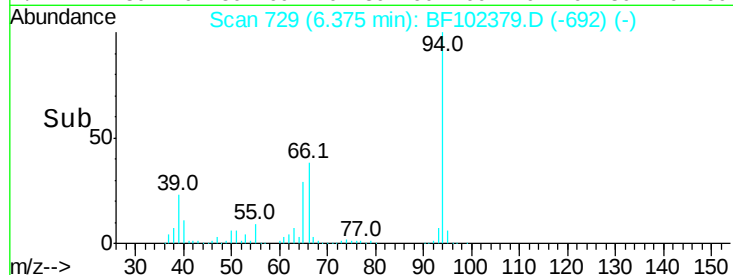
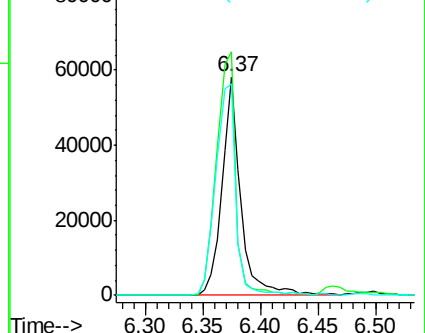
93 100

63 111.4 58.6 98.6#

95 97.0 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



#15

Benzyl Alcohol

Concen: 9.904 ng

RT: 6.97 min Scan# 831

Delta R.T. 0.11 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

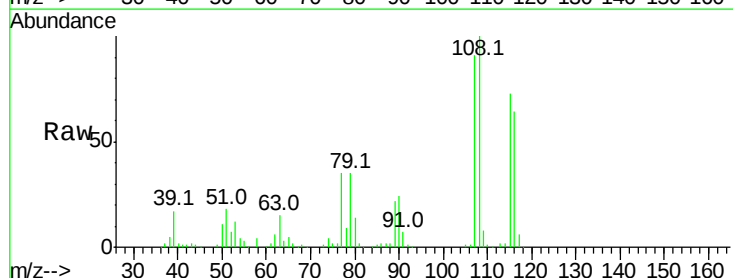
Tgt Ion: 79 Resp: 69720

Ion Ratio Lower Upper

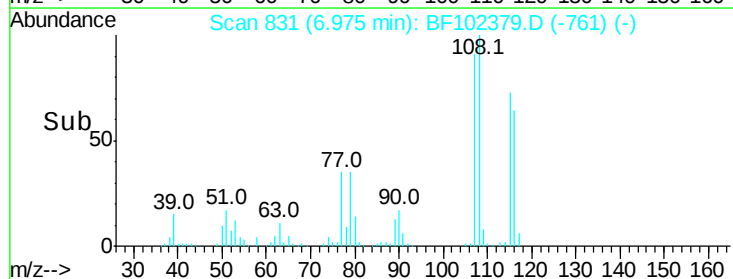
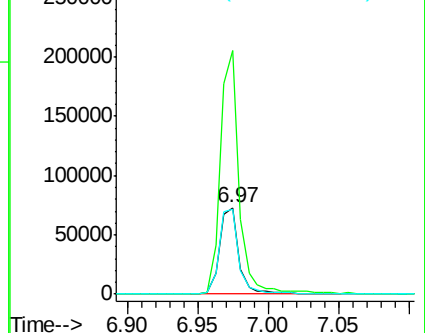
79 100

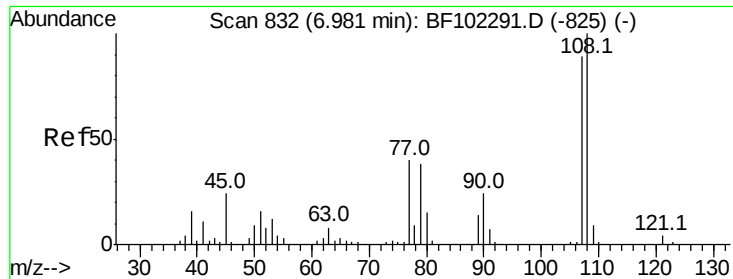
108 281.8 65.1 97.7#

77 97.8 50.6 75.8#



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

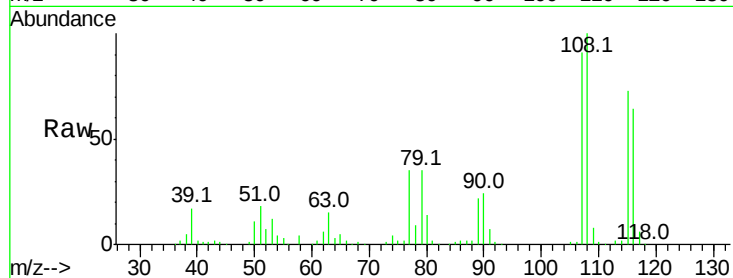




#17
2-Methylphenol
Concen: 22.476 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.01 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
108	110.3	91.7	137.5
77	38.3	33.8	50.8
79	39.1	33.8	50.8



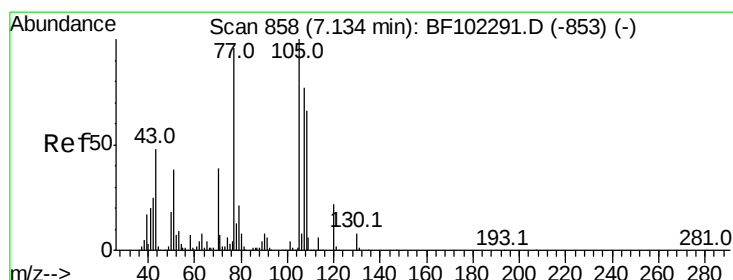
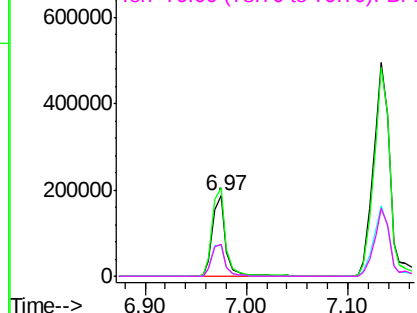
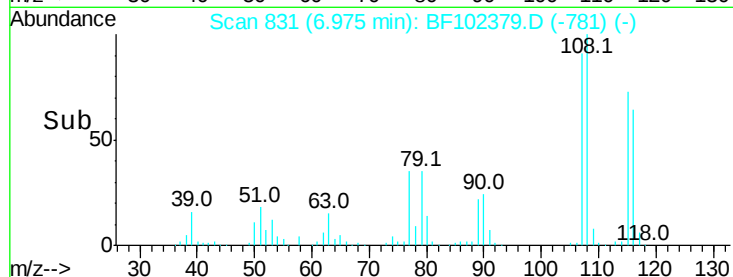
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

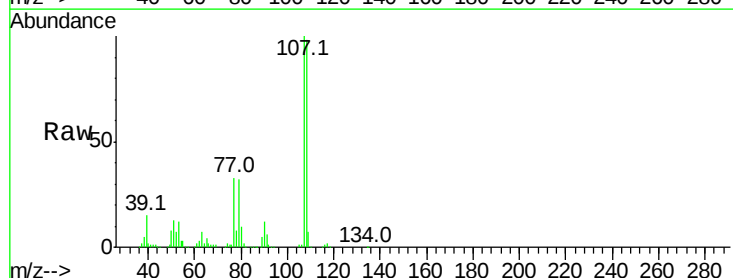
Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#20
3+4-Methylphenols
Concen: 63.852 ng
RT: 7.13 min Scan# 858
Delta R.T. -0.00 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Tgt Ion	Ratio	Lower	Upper
107	100		
108	97.9	68.2	108.2
77	33.0	26.7	66.7
79	31.7	6.3	46.3



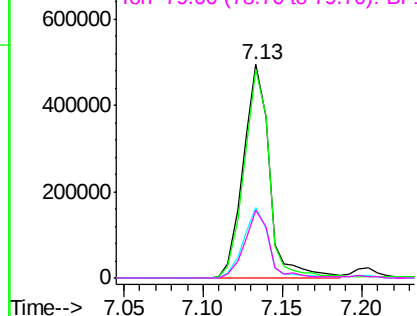
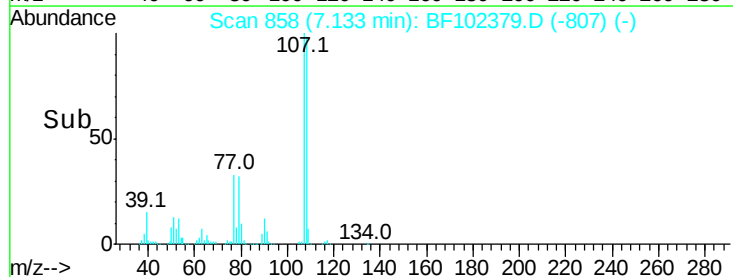
Abundance

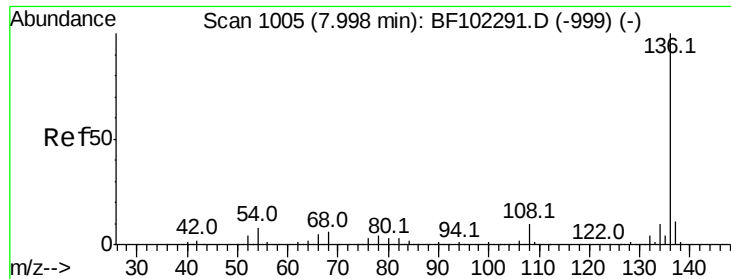
Ion 107.00 (106.70 to 107.70): E

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

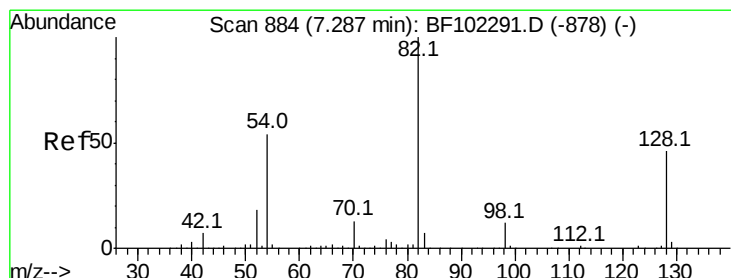
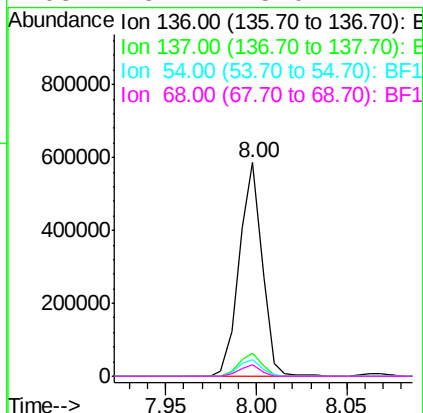
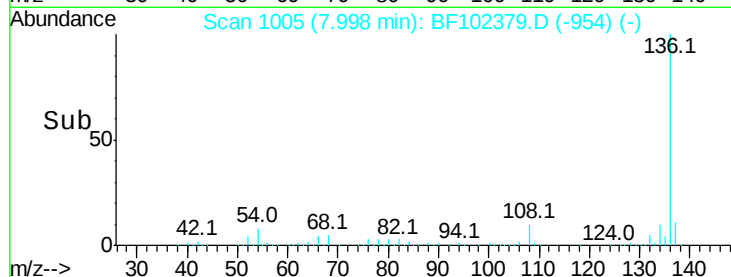
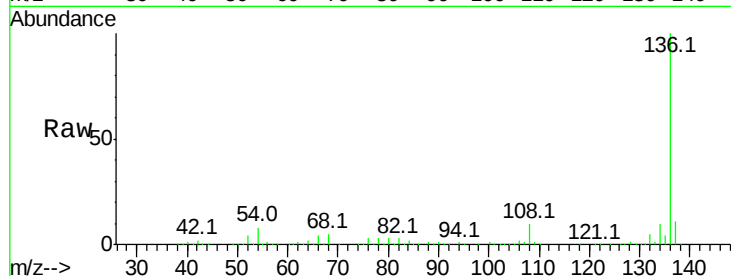




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

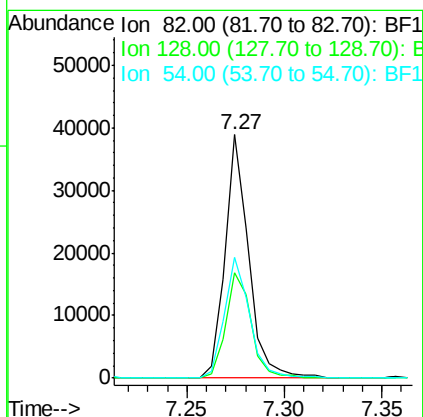
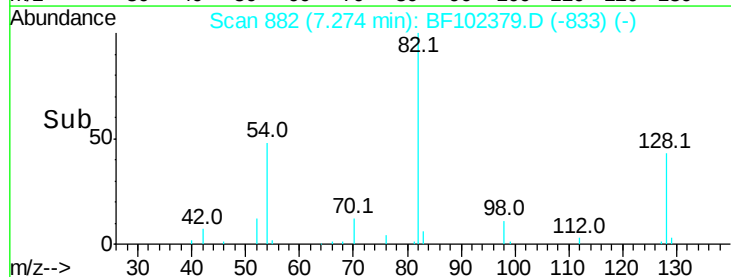
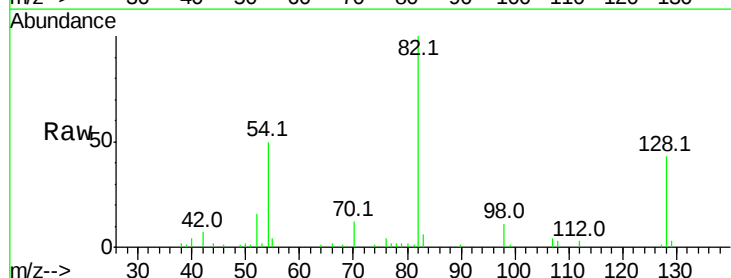
Instrument :
BNA_F
ClientSampleId :

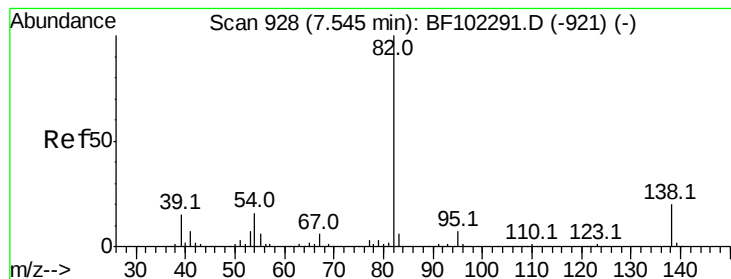
Tot Ion:	136	Resp:	515034
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.8	6.6	9.8
68	5.2	5.0	7.4



#23
Nitrobenzene-d5
Concen: 3.632 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Tgt Ion:	82	Resp:	32554
Ion	Ratio	Lower	Upper
82	100		
128	43.4	36.1	54.1
54	49.7	41.4	62.2





#25

Isophorone

Concen: 2.037 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.27 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampled :

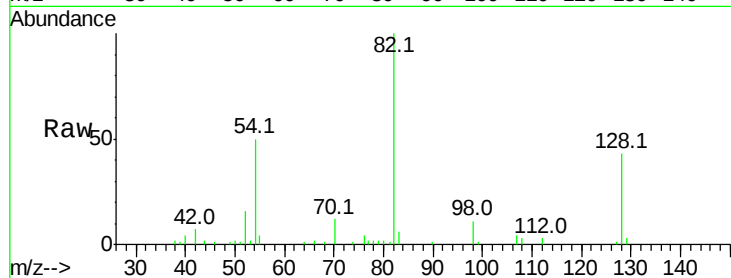
Tot Ion: 82 Resp: 32554

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

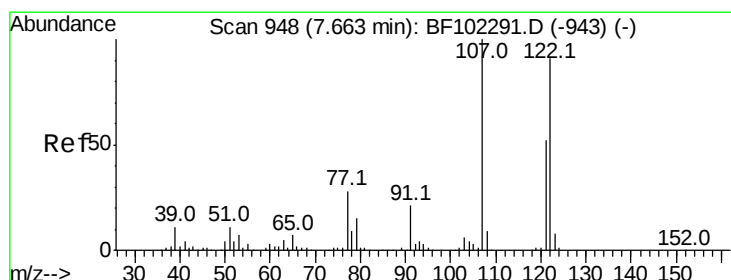
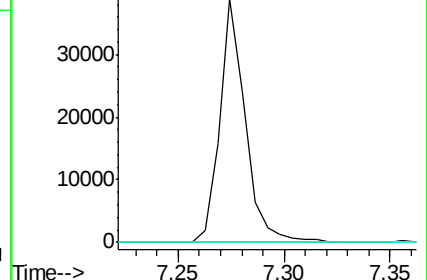
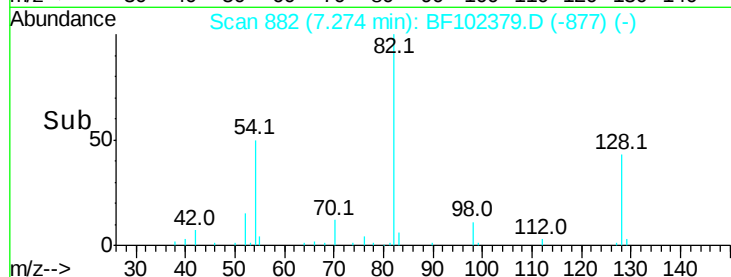
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#27

2,4-Dimethylphenol

Concen: 11.692 ng

RT: 7.66 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

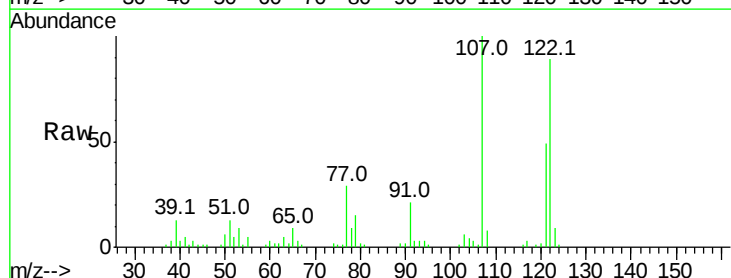
Tgt Ion: 122 Resp: 81954

Ion Ratio Lower Upper

122 100

107 112.3 91.2 136.8

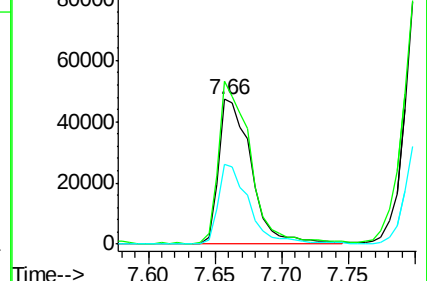
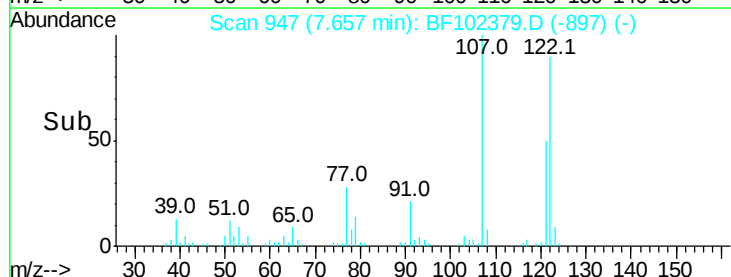
121 55.3 47.2 70.8

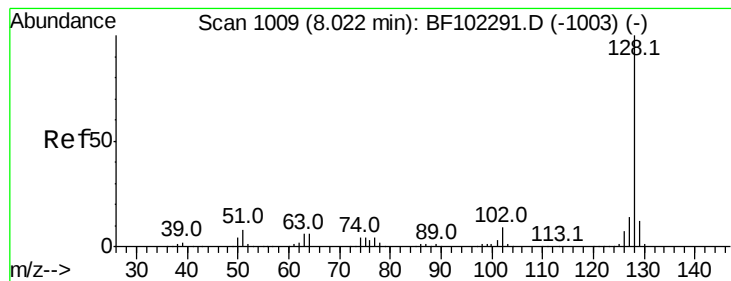


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E





#31

Naphthalene

Concen: 34.768 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampleId :

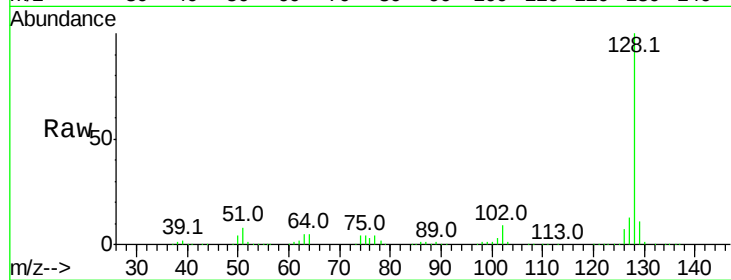
Tot Ion:128 Resp: 894051

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

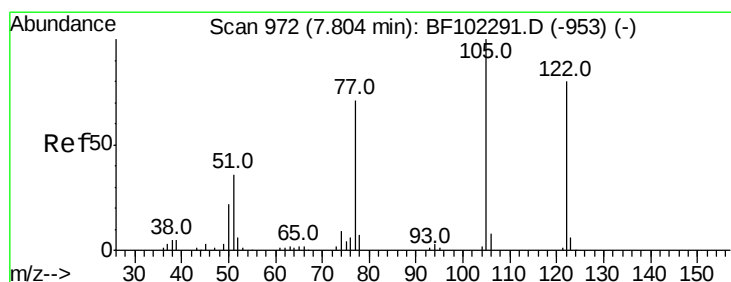
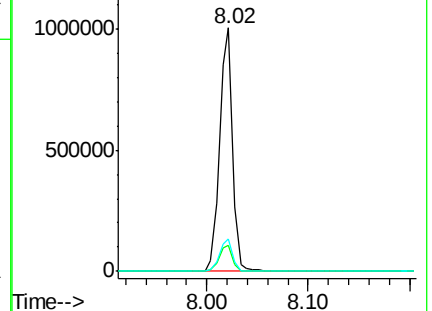
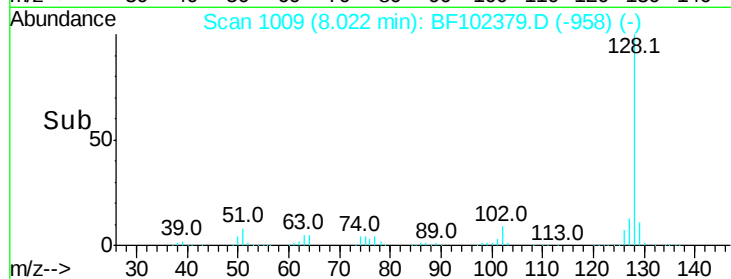
127 13.5 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 13.653 ng

RT: 7.80 min Scan# 971

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

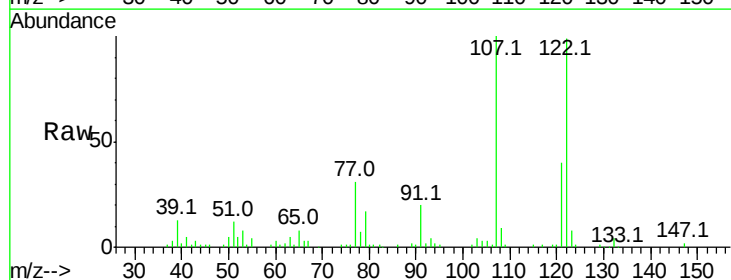
Tgt Ion:122 Resp: 80180

Ion Ratio Lower Upper

122 100

105 3.4 101.1 141.1#

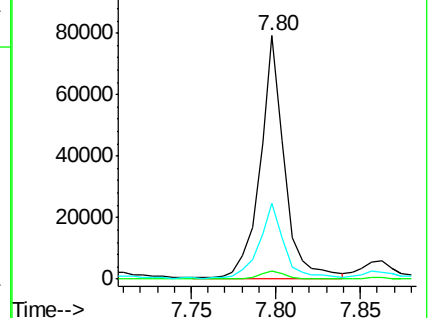
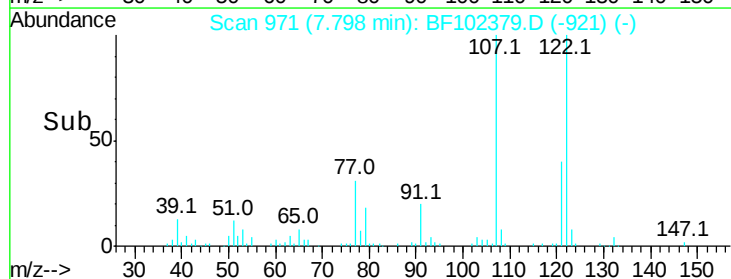
77 31.2 70.7 110.7#

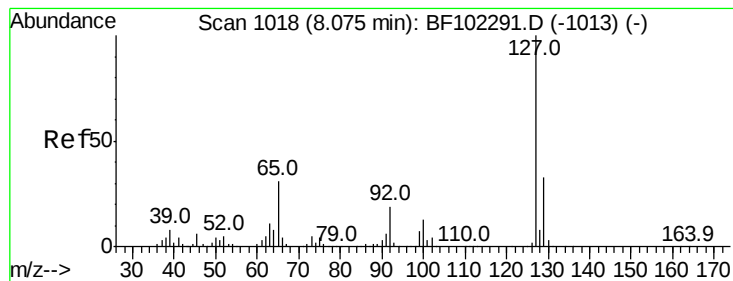


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





#33

4-Chloroaniline

Concen: 11.037 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.05 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampled :

Tot Ion:127 Resp: 119343

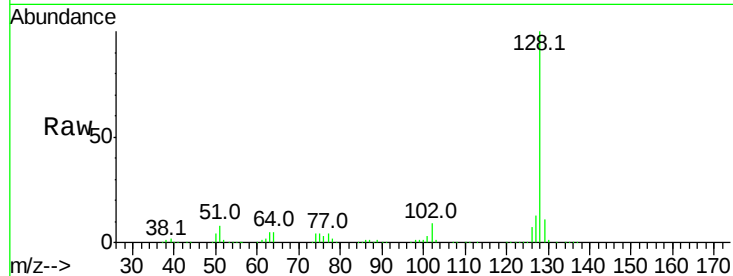
Ion Ratio Lower Upper

127 100

129 81.3 25.9 38.9#

65 0.0 25.0 37.4#

92 0.0 15.2 22.8#



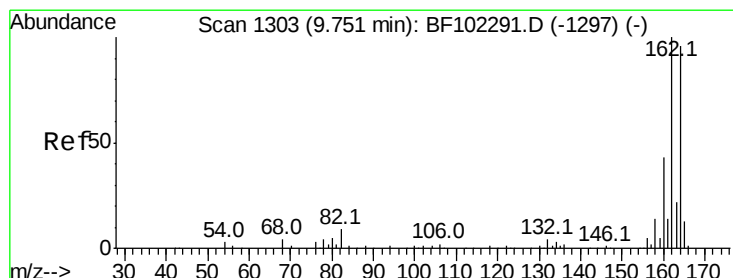
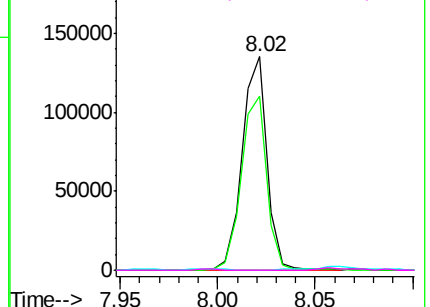
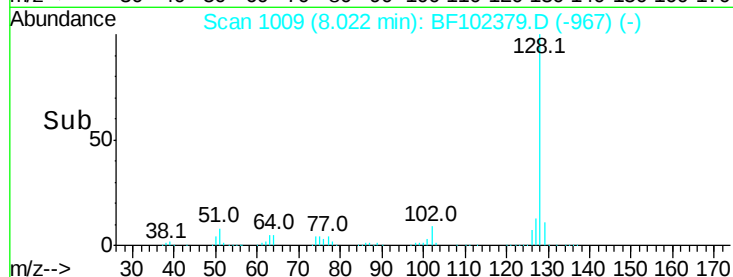
Abundance

Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.74 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

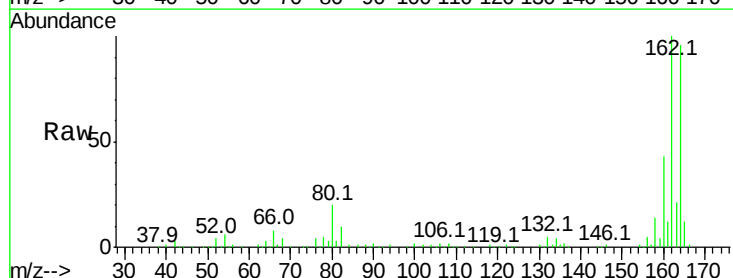
Tgt Ion:164 Resp: 220090

Ion Ratio Lower Upper

164 100

162 103.9 86.1 129.1

160 45.0 38.3 57.5

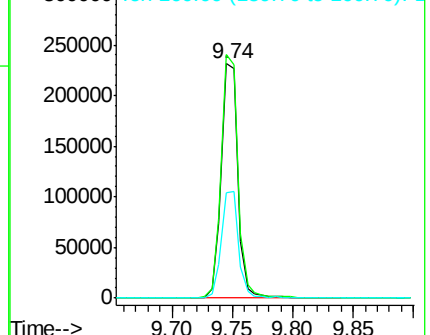
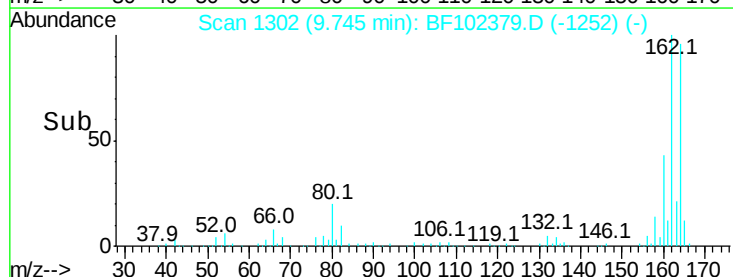


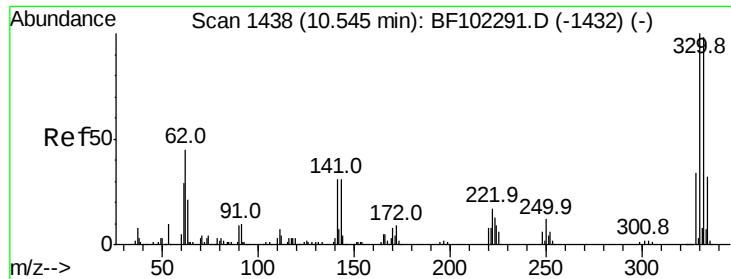
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

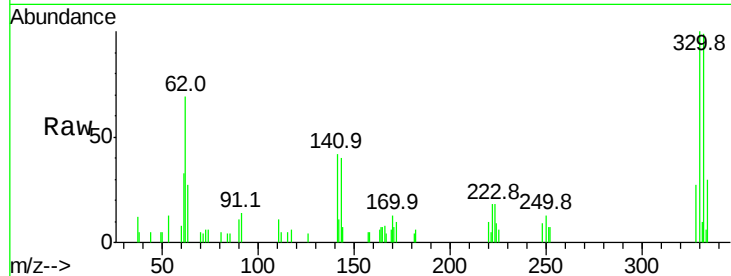




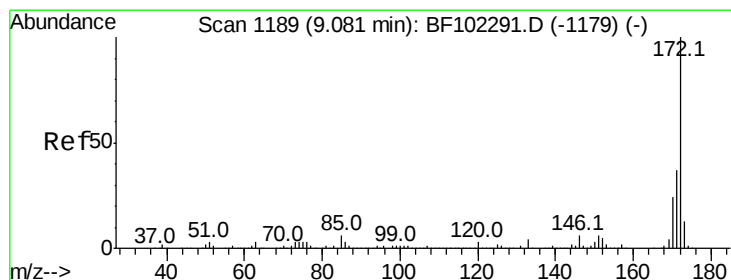
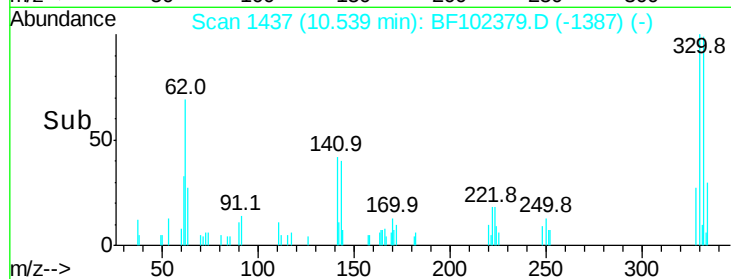
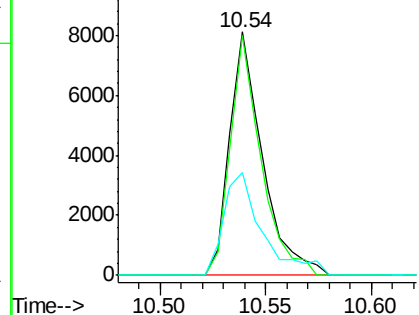
#41
 2,4,6-Tribromophenol
 Concen: 4.022 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102379.D
 Acq: 24 Jan 2018 9:17

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 8772
 Ion Ratio Lower Upper
 330 100
 332 91.8 77.0 115.6
 141 49.7 29.9 44.9#

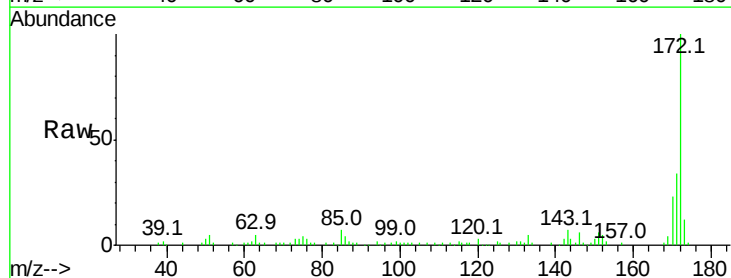


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

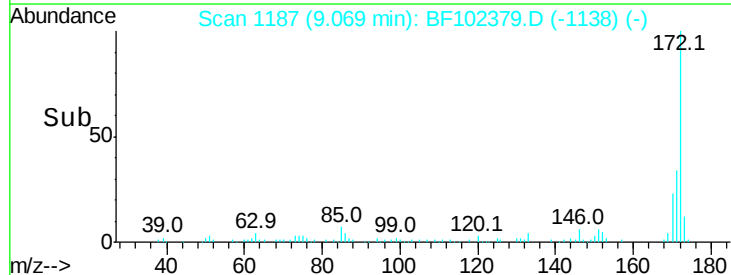
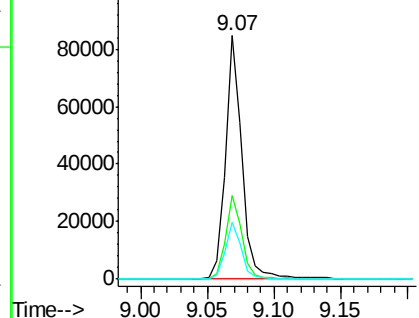


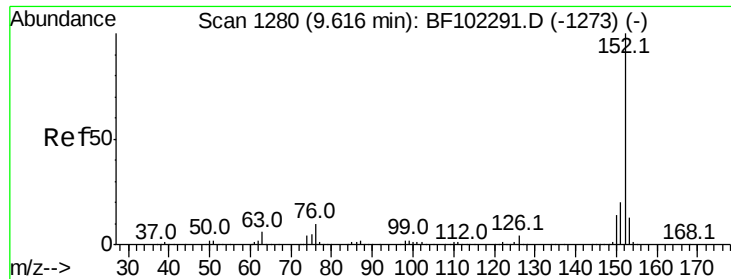
#44
 2-Fluorobiphenyl
 Concen: 4.965 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF102379.D
 Acq: 24 Jan 2018 9:17

Tgt Ion:172 Resp: 74321
 Ion Ratio Lower Upper
 172 100
 171 34.2 29.7 44.5
 170 23.5 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.271 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampleId :

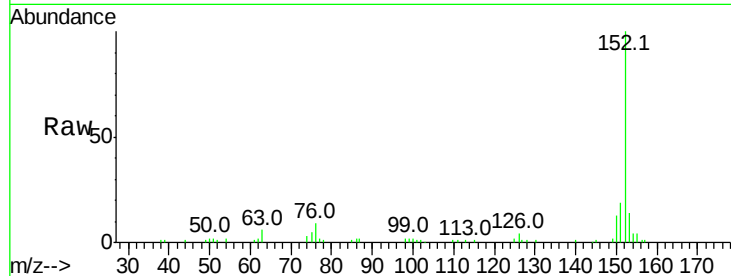
Tot Ion:152 Resp: 54126

Ion Ratio Lower Upper

152 100

151 18.8 16.3 24.5

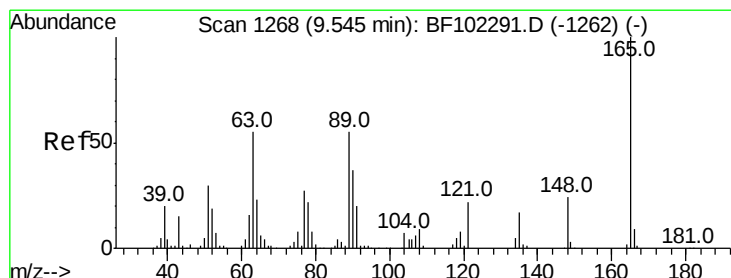
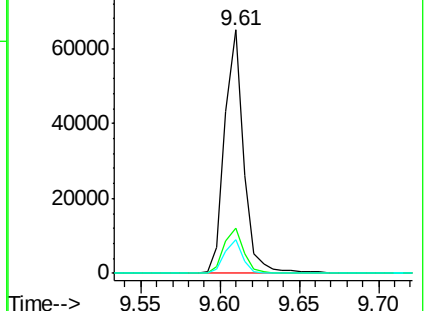
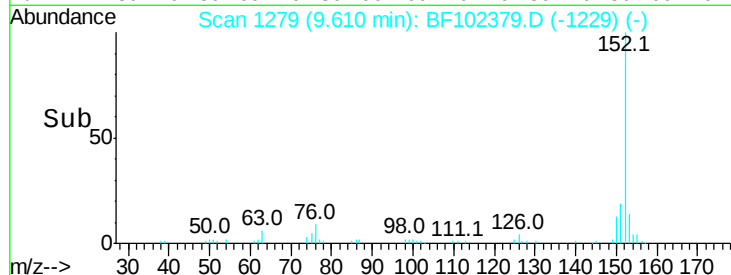
153 13.7 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 6.824 ng

RT: 9.74 min Scan# 1302

Delta R.T. 0.20 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

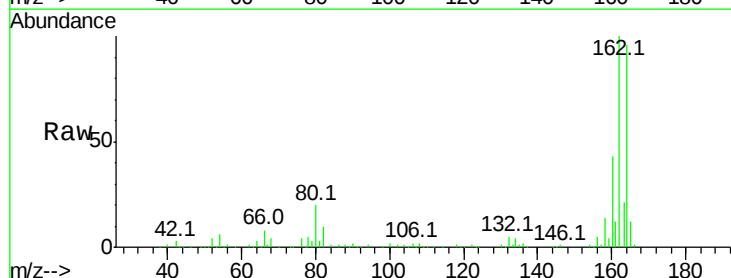
Tgt Ion:165 Resp: 26766

Ion Ratio Lower Upper

165 100

63 1.8 44.7 67.1#

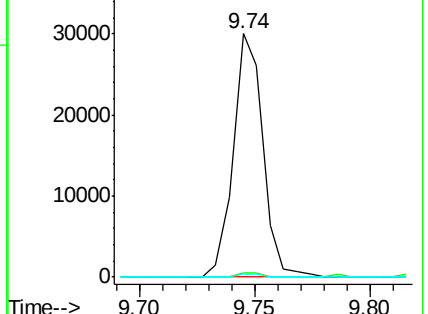
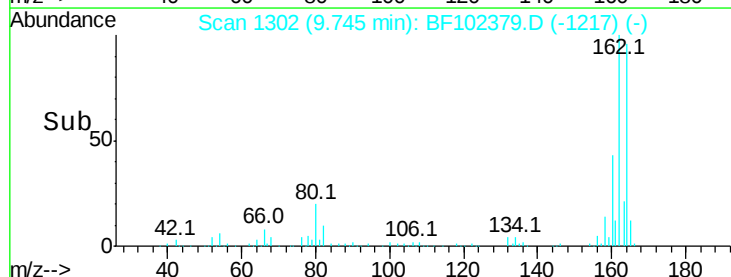
89 1.2 44.0 66.0#

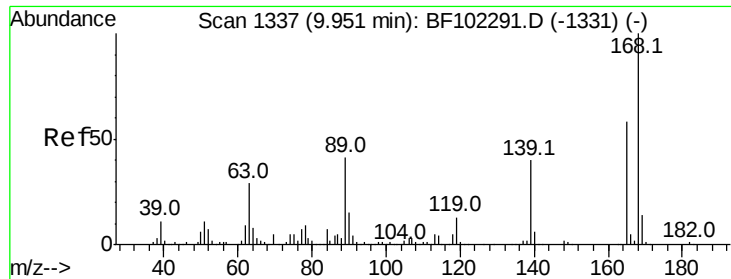


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

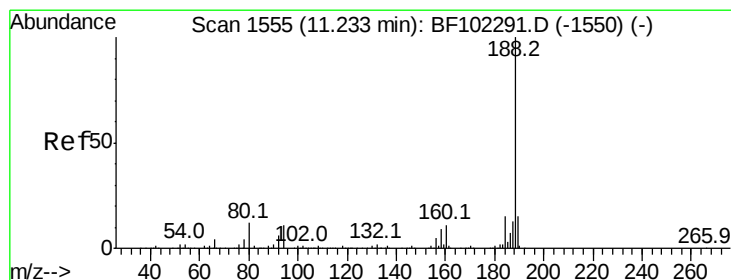
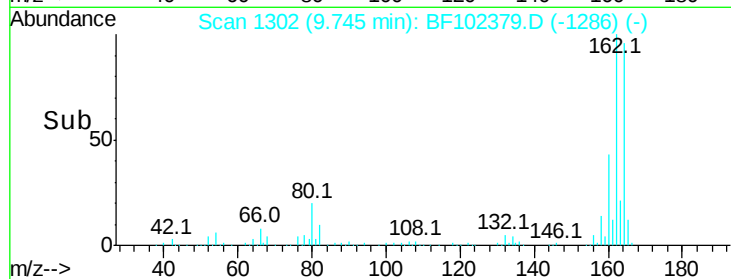
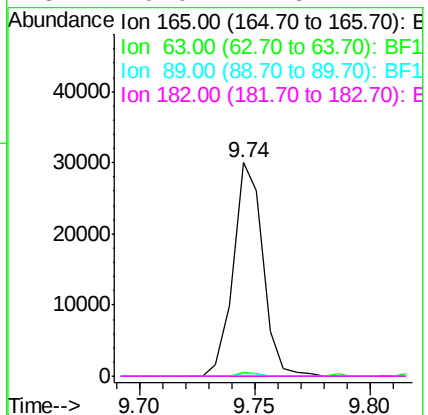
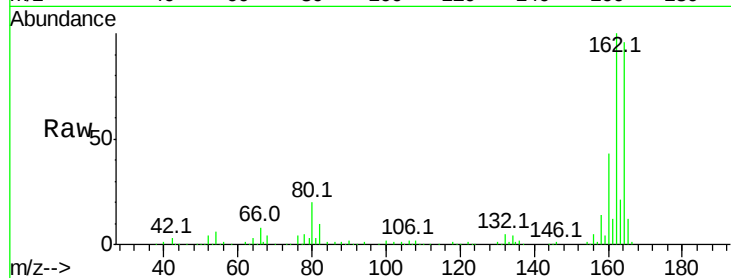




#56
 2,4-Dinitrotoluene
 Concen: 5.549 ng
 RT: 9.74 min Scan# 1302
 Delta R.T. -0.21 min
 Lab File: BF102379.D
 Acq: 24 Jan 2018 9:17

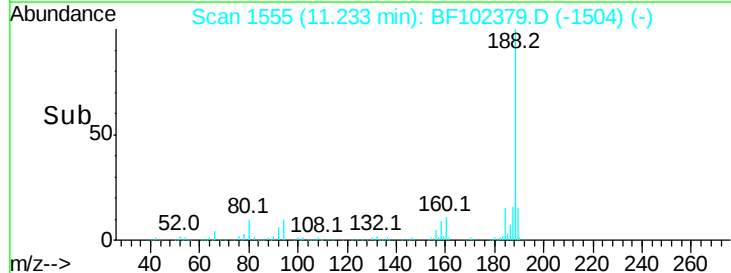
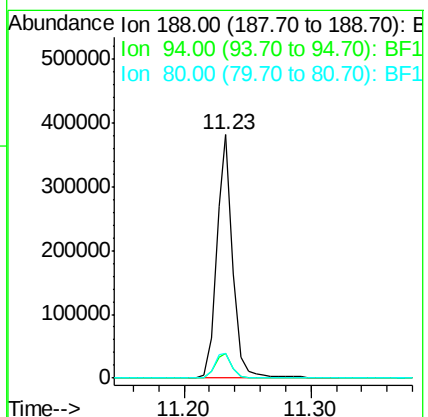
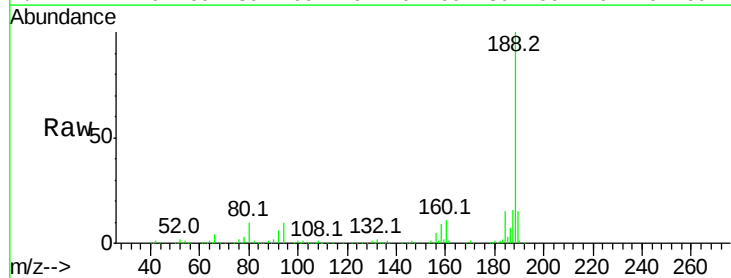
Instrument :
 BNA_F
 ClientSampleId :

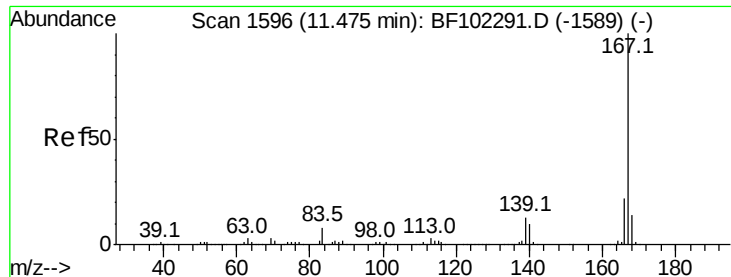
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	36.4	54.6#
89	1.2	57.8	86.6#
182	0.0	1.6	2.4#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.23 min Scan# 1555
 Delta R.T. -0.00 min
 Lab File: BF102379.D
 Acq: 24 Jan 2018 9:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.5	12.7
80	10.0	9.2	13.8





#72

Carbazole

Concen: 2.688 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

Instrument :

BNA_F

ClientSampleId :

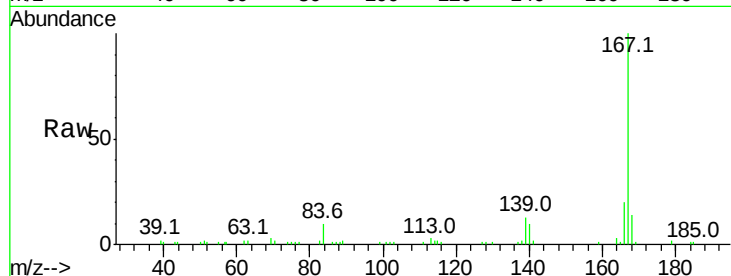
Tot Ion:167 Resp: 52280

Ion Ratio Lower Upper

167 100

166 20.3 17.6 26.4

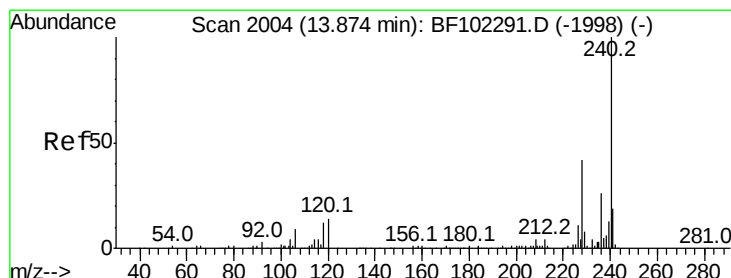
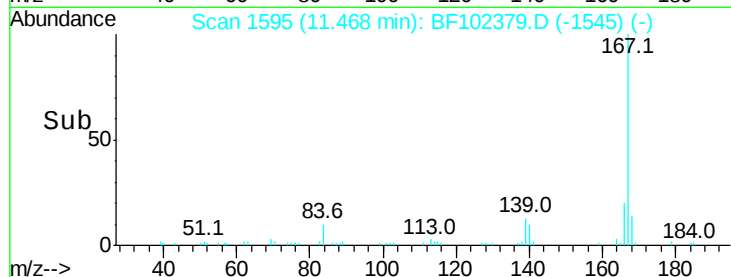
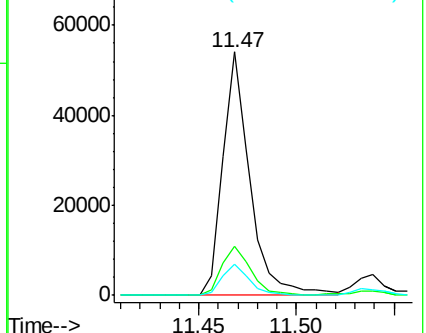
139 12.9 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102379.D

Acq: 24 Jan 2018 9:17

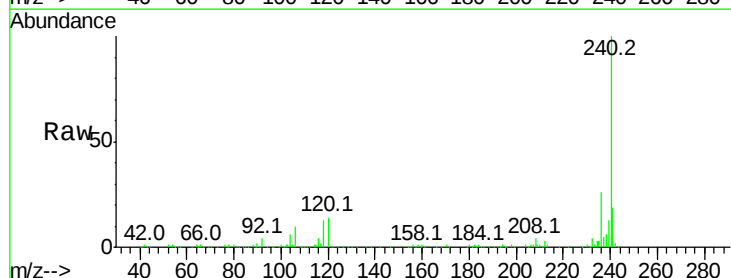
Tgt Ion:240 Resp: 249064

Ion Ratio Lower Upper

240 100

120 13.6 9.5 14.3

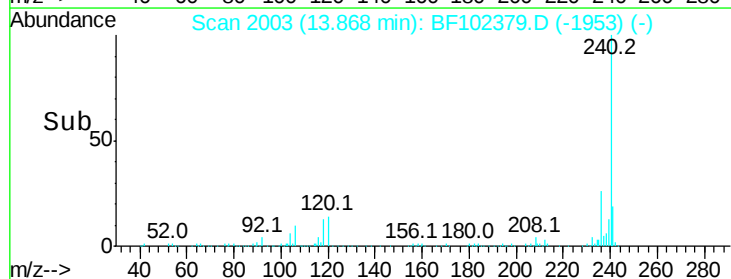
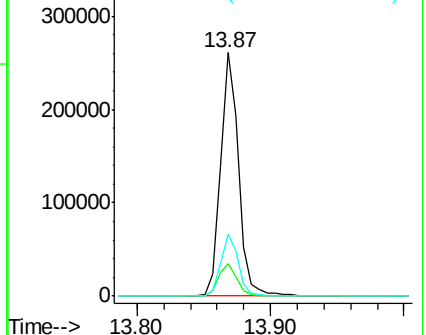
236 25.5 20.7 31.1

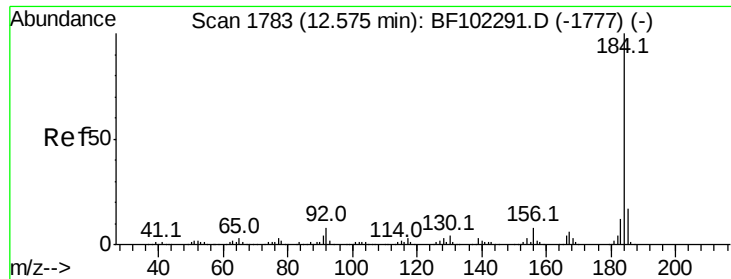


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

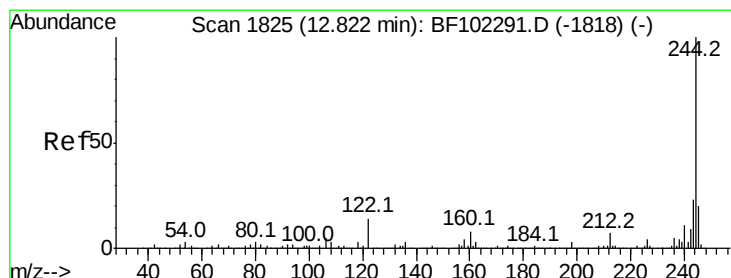
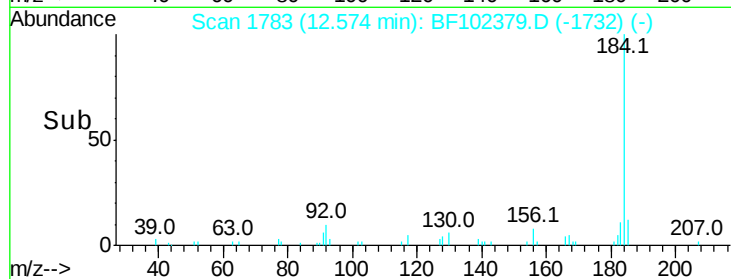
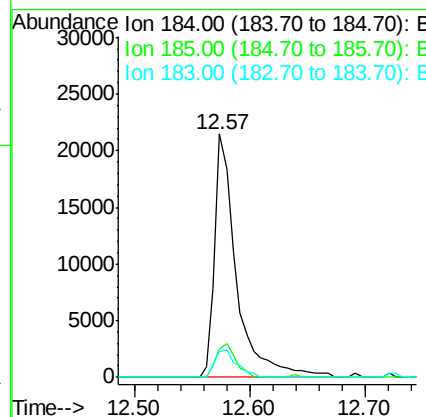
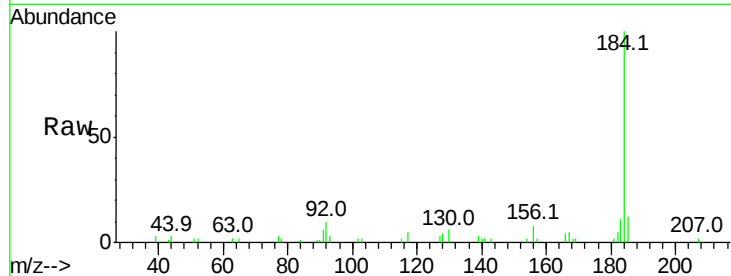




#76
Benzidine
Concen: 3.391 ng
RT: 12.57 min Scan# 1783
Delta R.T. -0.00 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

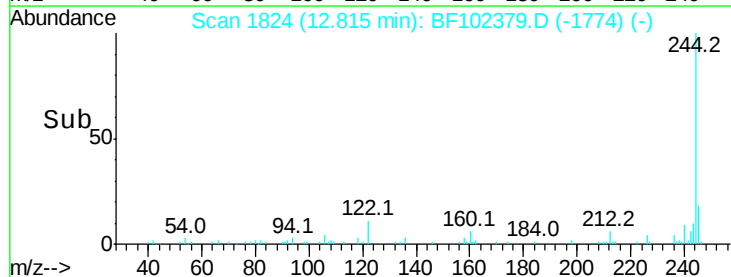
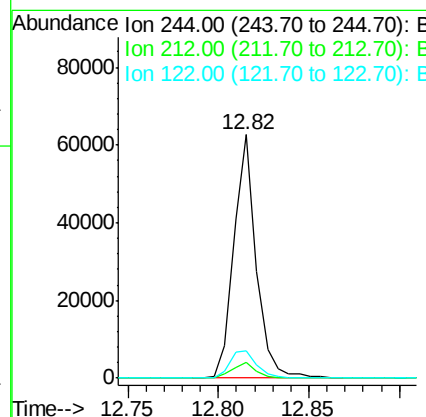
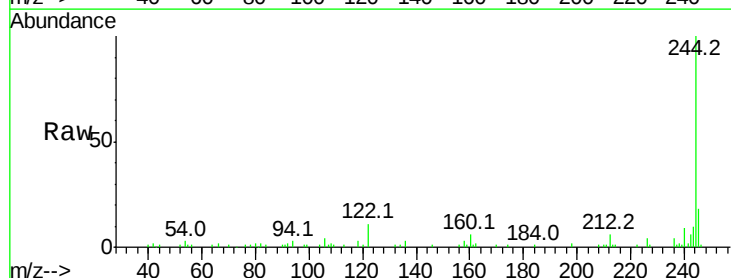
Instrument :
BNA_F
ClientSampled :

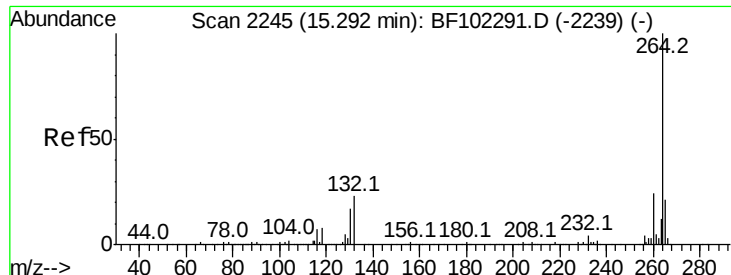
Tot Ion:184 Resp: 28372
Ion Ratio Lower Upper
184 100
185 11.9 12.6 18.8#
183 10.6 9.3 13.9



#78
Terphenyl-d14
Concen: 4.871 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Tgt Ion:244 Resp: 53812
Ion Ratio Lower Upper
244 100
212 6.4 5.4 8.0
122 11.4 11.0 16.4





#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF102379.D
Acq: 24 Jan 2018 9:17

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.8	19.2	28.8
265	21.9	17.5	26.3

