

Data Path : U:\HPCHEM1\BNA F\DATA\BF013018\
 Data File : BF102641.D
 Acq On : 30 Jan 2018 16:04
 Operator : SJ/JU
 Sample : J1363-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

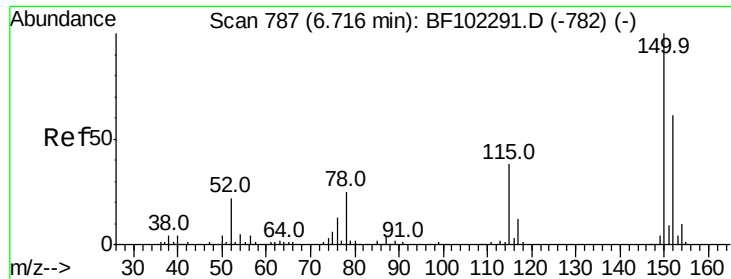
Quant Time: Jan 30 22:17:56 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 27 20:48:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	156419	20.00	ng	0.00
21) Naphthalene-d8	7.99	136	677834	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	303316	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	525611	20.00	ng	0.00
75) Chrysene-d12	13.87	240	460200	20.00	ng	0.00
86) Perylene-d12	15.30	264	365178	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	1071353	103.85	ng	0.02
7) Phenol-d6	6.36	99	1205970	96.97	ng	0.00
23) Nitrobenzene-d5	7.28	82	953727	80.86	ng	0.00
41) 2,4,6-Tribromophenol	10.54	330	319120	106.18	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	1676250	81.26	ng	0.00
78) Terphenyl-d14	12.82	244	1490416	73.01	ng	0.00

Target Compounds				Qvalue		
10) Phenol	6.39	94	379752	27.969	ng	99
15) Benzyl Alcohol	6.86	79	52256	5.955	ng	# 79
17) 2-Methylphenol	6.98	107	25028	2.665	ng	90
19) n-Nitroso-di-n-propylamine	7.12	70	128599	16.896	ng	# 63
25) Isophorone	7.28	82	950498	45.202	ng	# 64
27) 2,4-Dimethylphenol	7.77	122	30695	3.327	ng	# 4
28) bis(2-Chloroethoxy)methane	8.02	93	29116	2.241	ng	# 85
31) Naphthalene	8.01	128	549060	16.224	ng	99
32) Benzoic acid	7.77	122	30695	3.971	ng	96
33) 4-Chloroaniline	8.01	127	73675	5.177	ng	# 42
36) 4-Chloro-3-methylphenol	8.46	107	69709	7.038	ng	# 20
37) 2-Methylnaphthalene	8.70	142	72426	3.213	ng	97
49) Dimethylphthalate	9.75	163	83842	3.344	ng	# 1
50) 2,6-Dinitrotoluene	9.75	165	39460	7.300	ng	# 26
51) Acenaphthene	9.77	154	108103	5.636	ng	98
54) Dibenzofuran	9.95	168	81114	3.125	ng	99
55) 4-Nitrophenol	9.95	139	29837	7.069	ng	# 11
57) Fluorene	10.29	166	69759	3.391	ng	98
66) 4-Bromophenyl-phenvlether	10.54	248	21407	3.783	ng	# 1
70) Phenanthrene	11.25	178	115056	3.757	ng	100
71) Anthracene	11.25	178	115056	3.680	ng	99

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

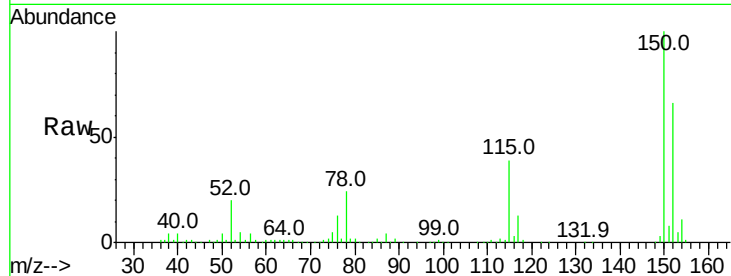


#1

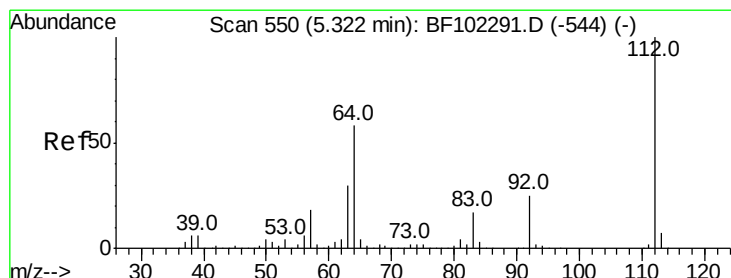
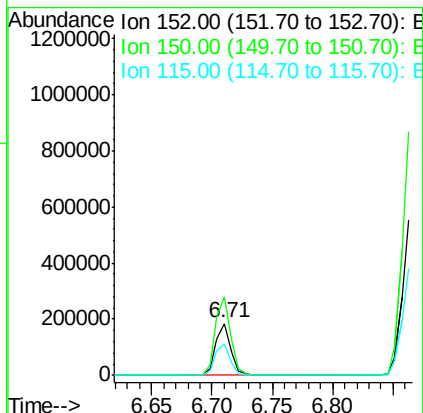
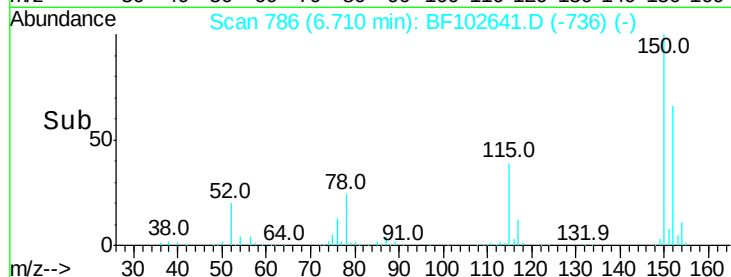
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 156419
Ion Ratio Lower Upper
152 100
150 151.8 124.6 186.8
115 59.8 50.1 75.1



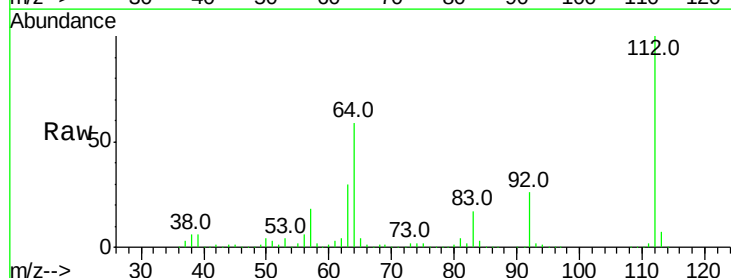
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



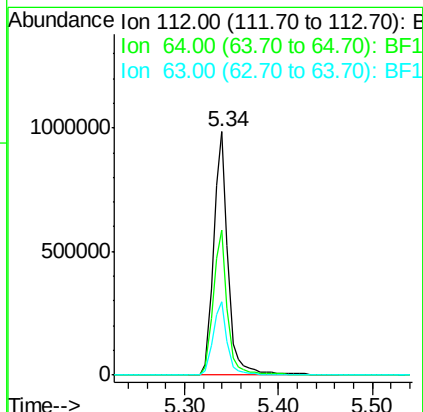
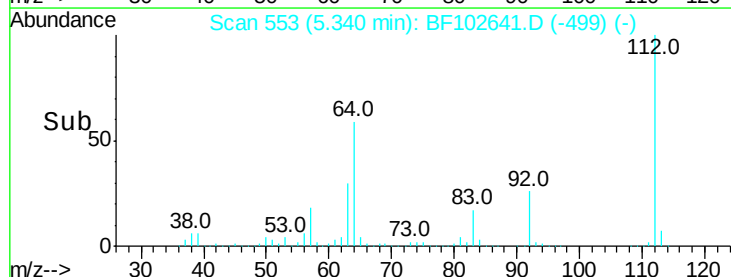
#5

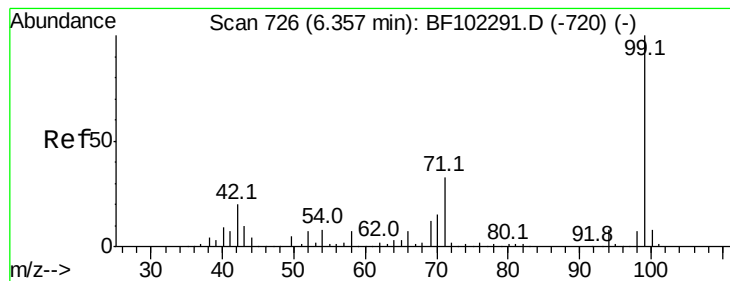
2-Fluorophenol
Concen: 103.852 ng
RT: 5.34 min Scan# 553
Delta R.T. 0.02 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion:112 Resp: 1071353
Ion Ratio Lower Upper
112 100
64 59.4 47.9 71.9
63 30.2 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





#7

Phenol-d6

Concen: 96.966 ng

RT: 6.36 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

Instrument :

BNA_F

ClientSampled :

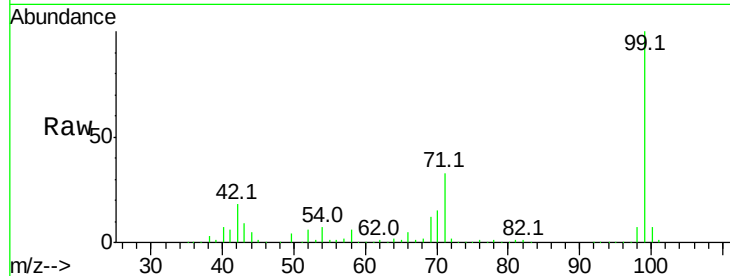
Tot Ion: 99 Resp: 1205970

Ion Ratio Lower Upper

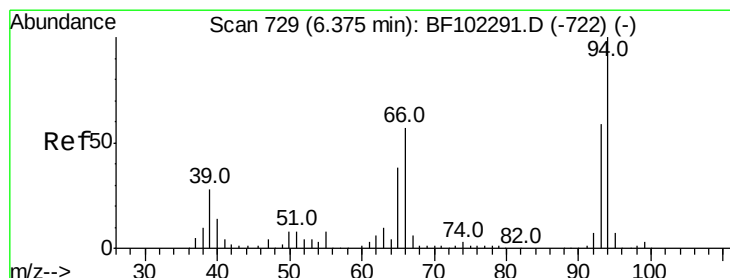
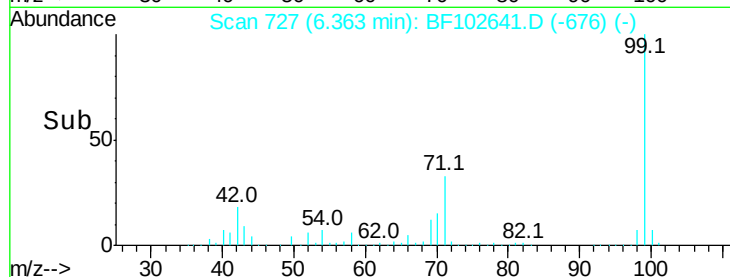
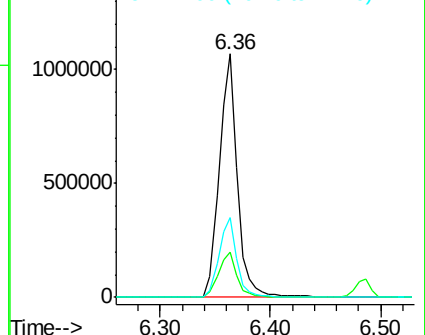
99 100

42 18.5 14.5 21.7

71 32.8 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: 27.969 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

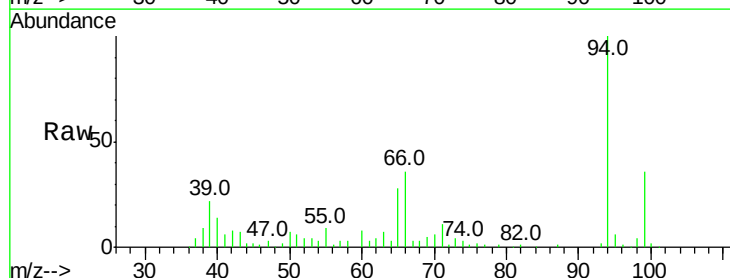
Tgt Ion: 94 Resp: 379752

Ion Ratio Lower Upper

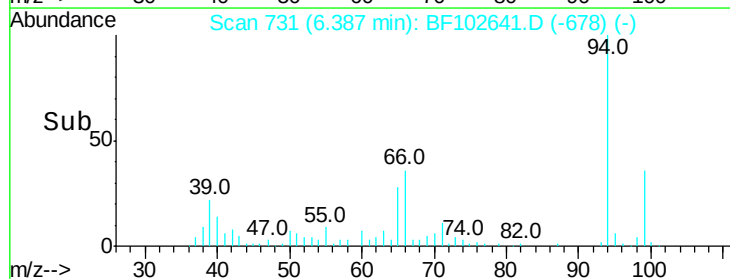
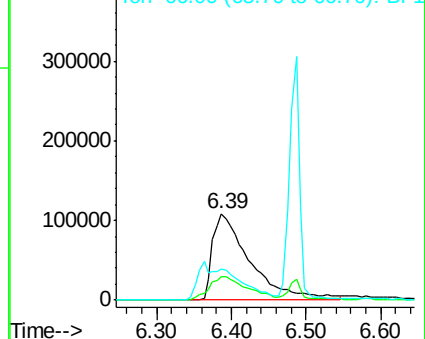
94 100

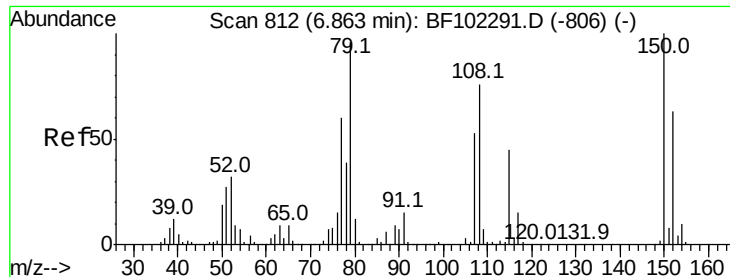
65 27.5 7.9 47.9

66 35.6 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

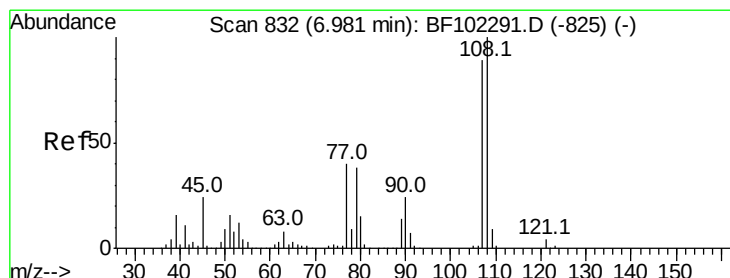
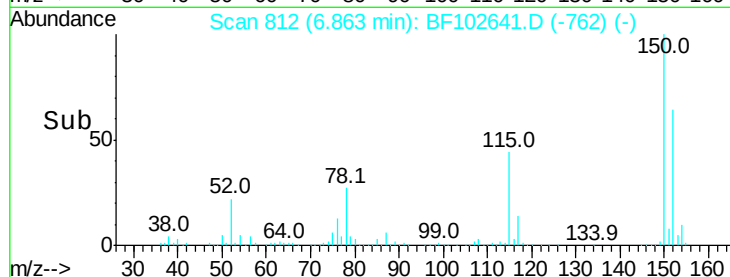
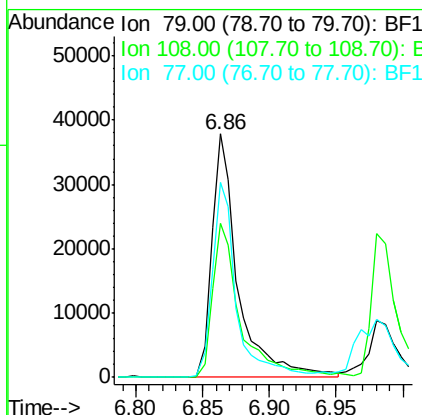
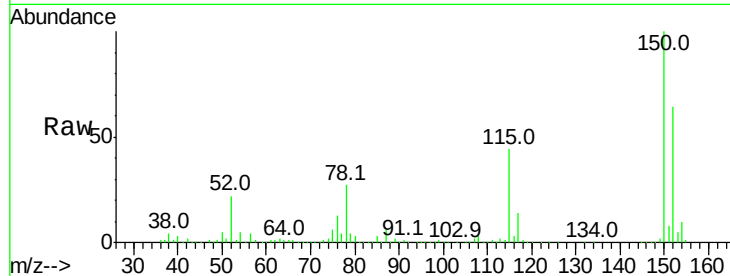




#15
Benzyl Alcohol
Concen: 5.955 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

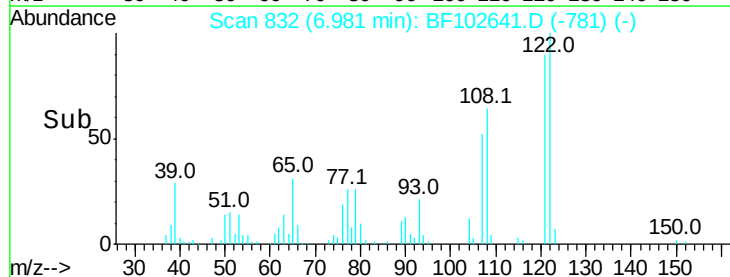
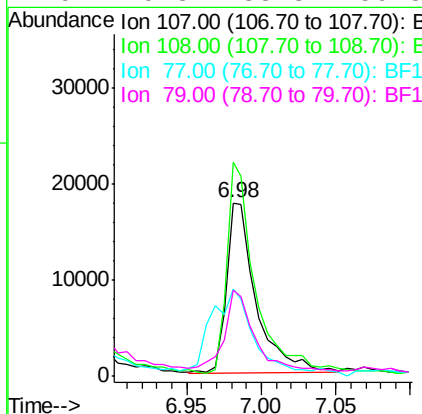
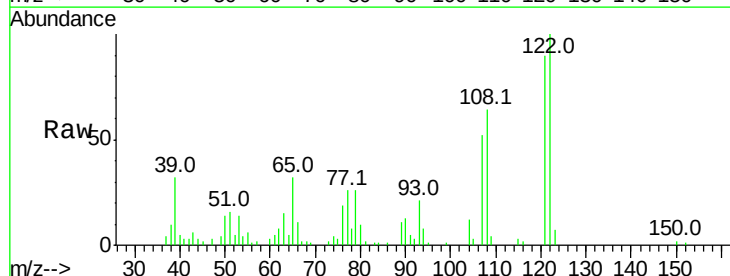
Instrument :
BNA_F
ClientSampleId :

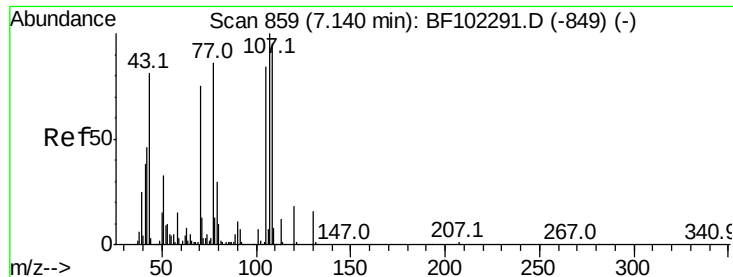
Tot Ion: 79 Resp: 52256
Ion Ratio Lower Upper
79 100
108 63.2 65.1 97.7#
77 80.2 50.6 75.8#



#17
2-Methylphenol
Concen: 2.665 ng
RT: 6.98 min Scan# 832
Delta R.T. 0.00 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion: 107 Resp: 25028
Ion Ratio Lower Upper
107 100
108 123.4 91.7 137.5
77 50.5 33.8 50.8
79 49.3 33.8 50.8

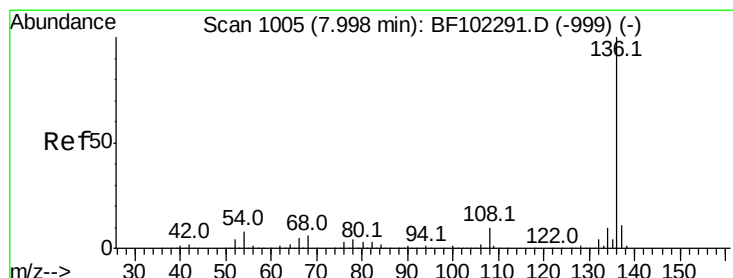
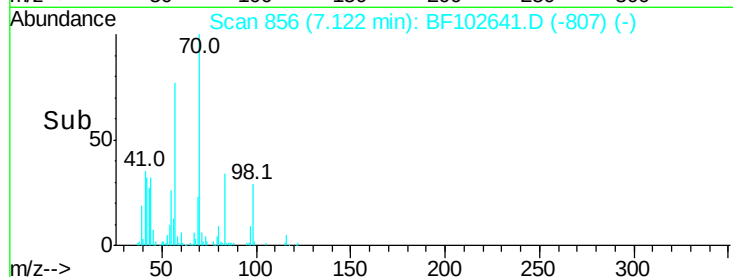
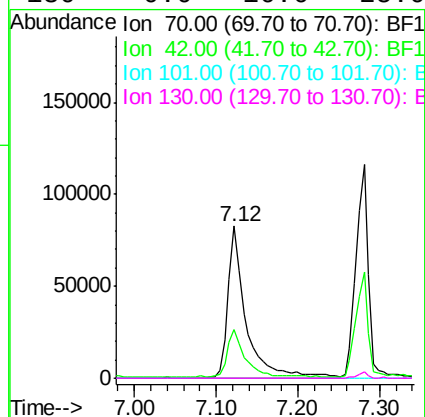
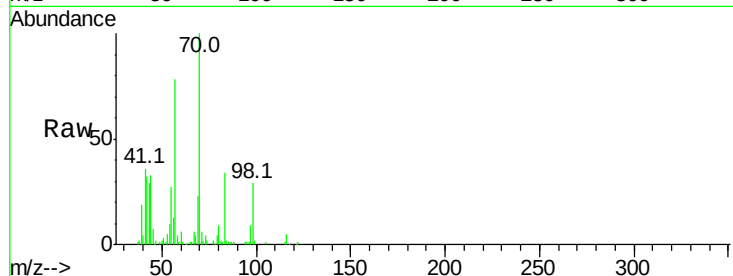




#19
n-Nitroso-di-n-propylamine
Concen: 16.896 ng
RT: 7.12 min Scan# 856
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

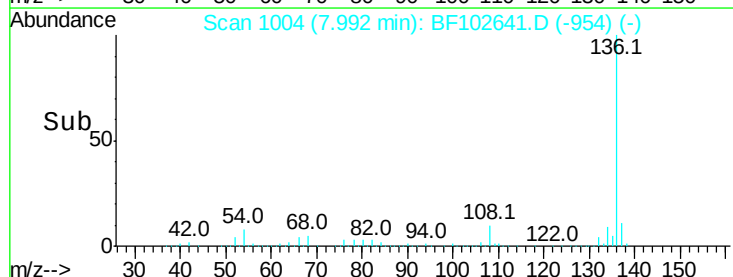
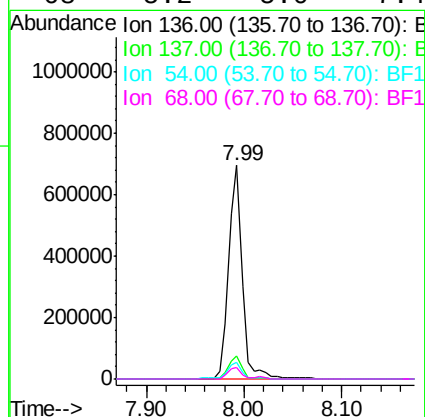
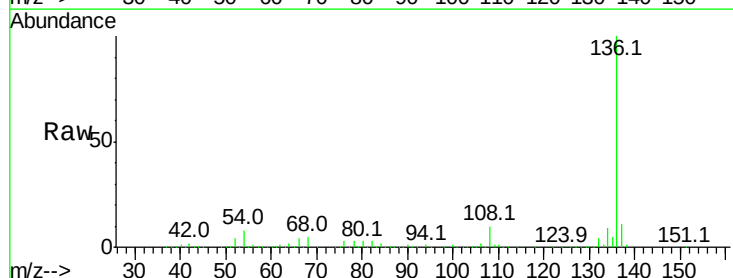
Instrument :
BNA_F
ClientSampleId :

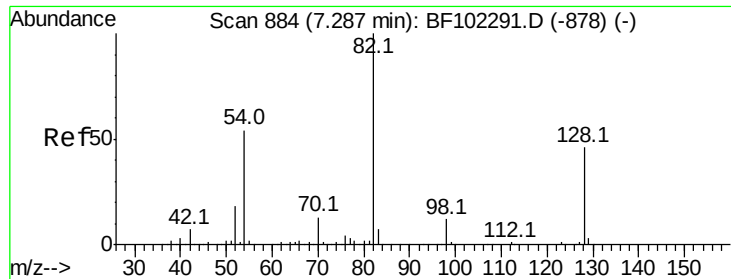
Tot Ion: 70 Resp: 128599
Ion Ratio Lower Upper
70 100
42 32.3 47.5 71.3#
101 0.0 7.4 11.2#
130 0.0 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.99 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion:136 Resp: 677834
Ion Ratio Lower Upper
136 100
137 10.6 8.9 13.3
54 7.8 6.6 9.8
68 5.2 5.0 7.4

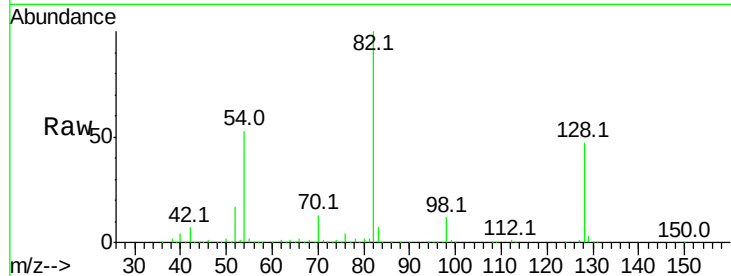




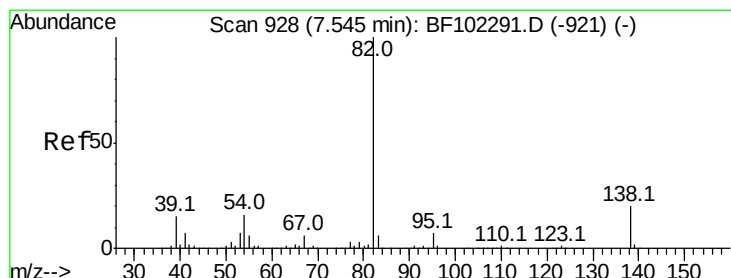
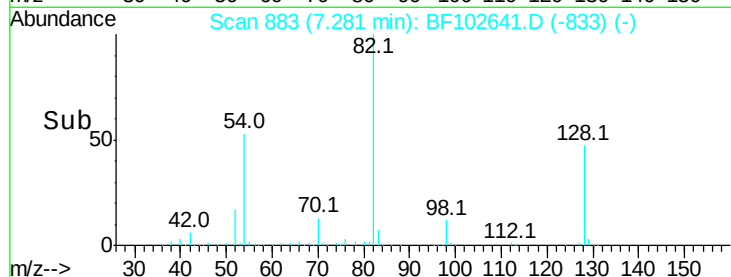
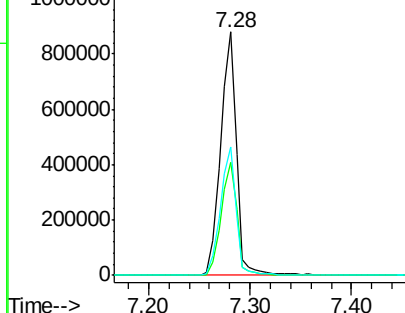
#23
 Nitrobenzene-d5
 Concen: 80.857 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	953727
Ion	Ratio	Lower	Upper
82	100		
128	46.5	36.1	54.1
54	52.9	41.4	62.2

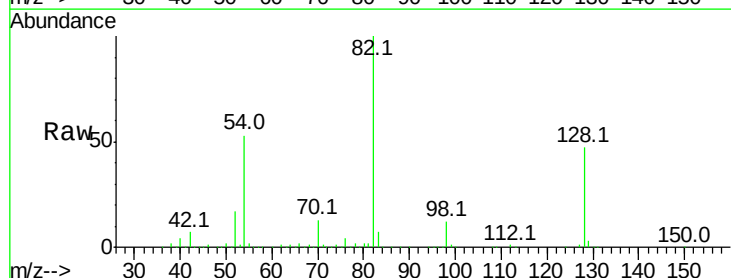


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

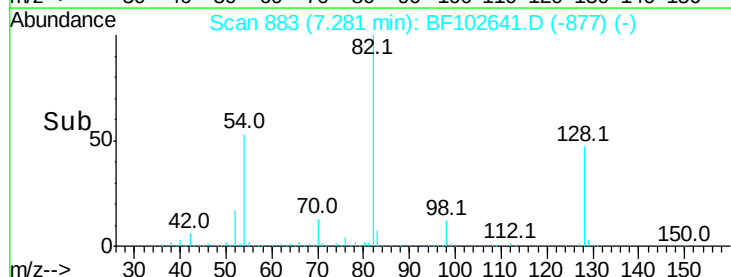
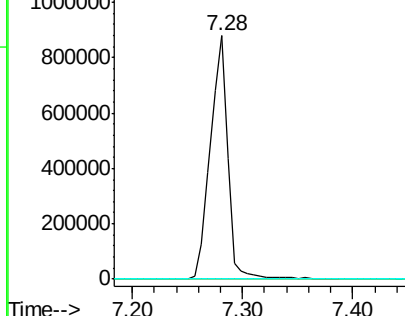


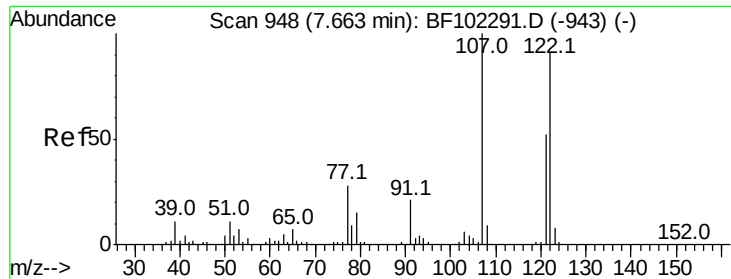
#25
 Isophorone
 Concen: 45.202 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.26 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

Tgt Ion	82	Resp	950498
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

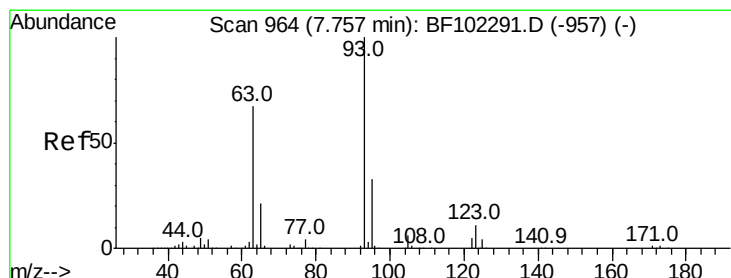
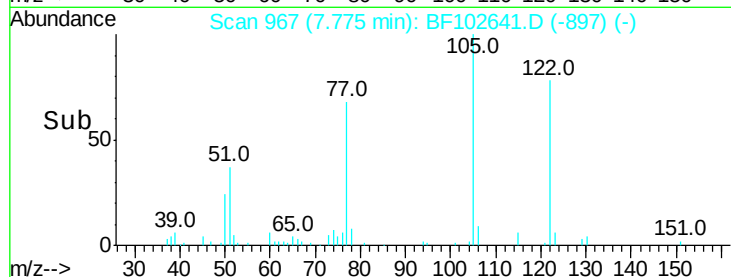
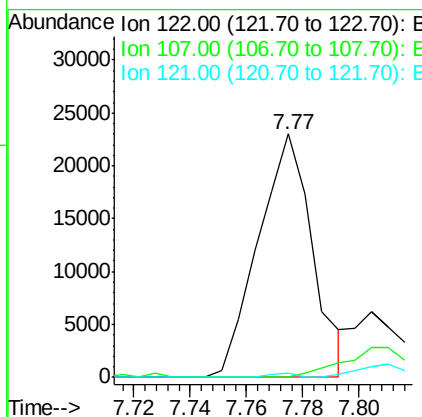
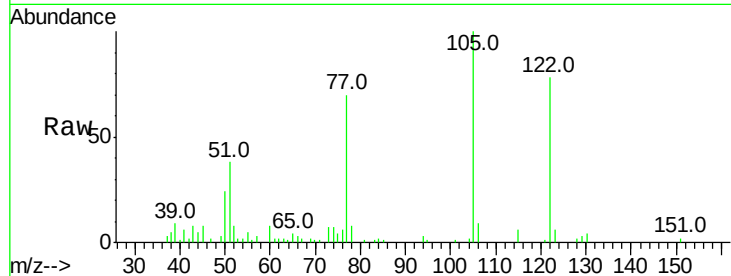




#27
 2,4-Dimethylphenol
 Concen: 3.327 ng
 RT: 7.77 min Scan# 967
 Delta R.T. 0.11 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

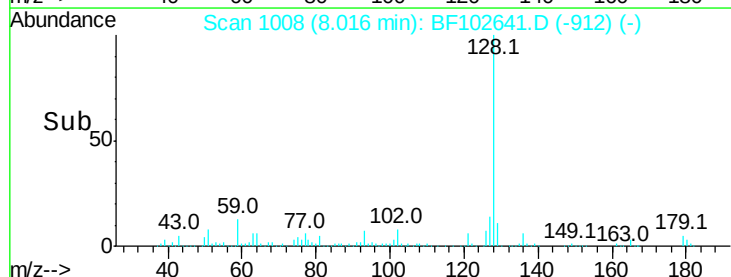
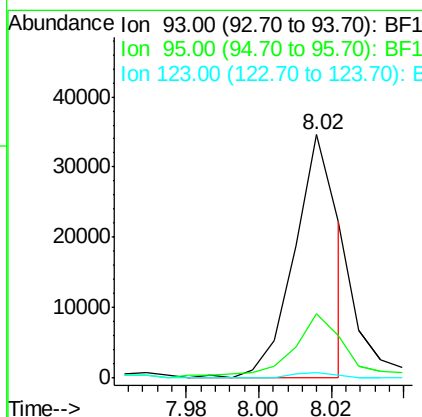
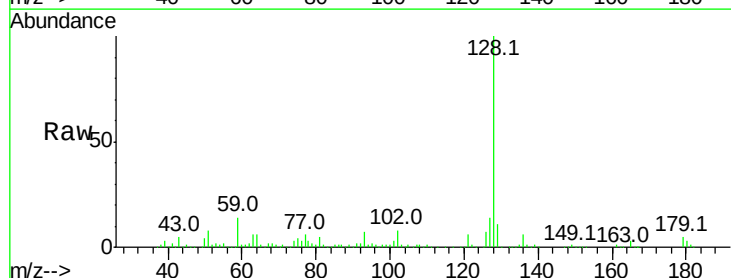
Instrument :
 BNA_F
 ClientSampled :

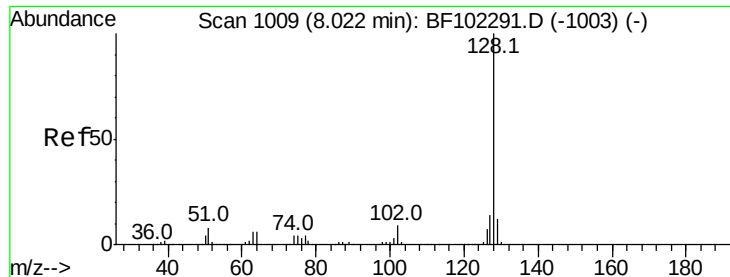
Tot Ion:122 Resp: 30695
 Ion Ratio Lower Upper
 122 100
 107 0.0 91.2 136.8#
 121 1.6 47.2 70.8#



#28
 bis(2-Chloroethoxy)methane
 Concen: 2.241 ng
 RT: 8.02 min Scan# 1008
 Delta R.T. 0.26 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

Tgt Ion: 93 Resp: 29116
 Ion Ratio Lower Upper
 93 100
 95 26.3 26.3 39.5#
 123 2.5 9.8 14.6#

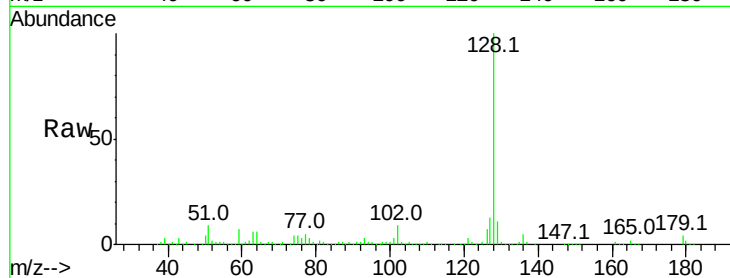




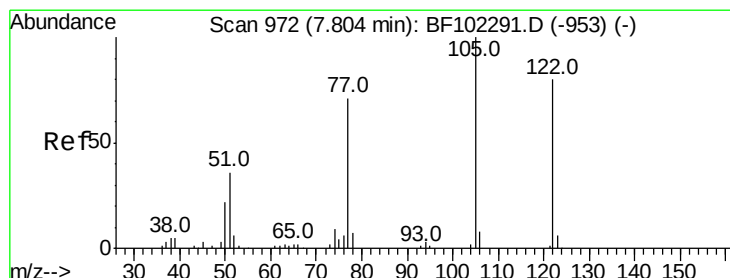
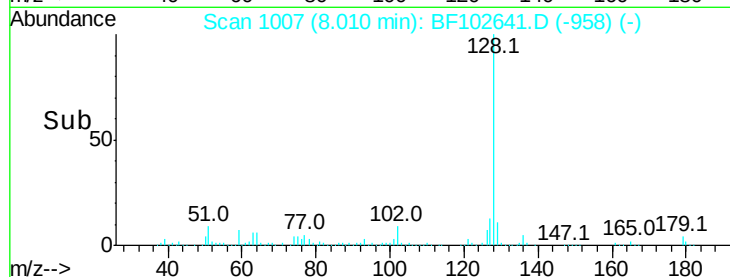
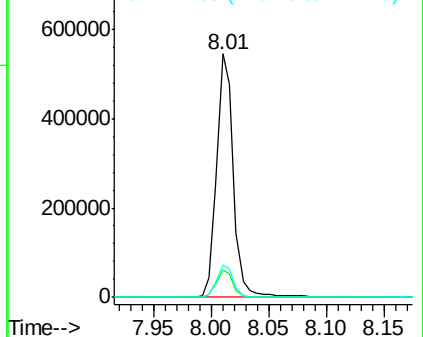
#31
Naphthalene
Concen: 16.224 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 549060
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 13.3 10.9 16.3

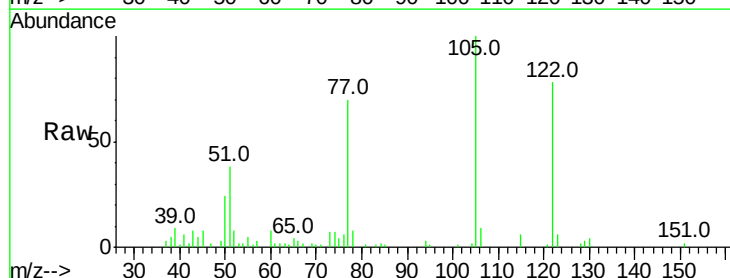


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

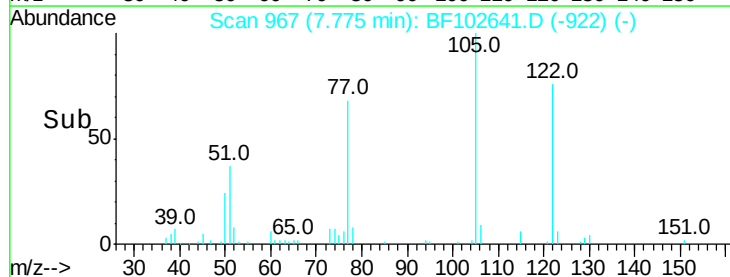
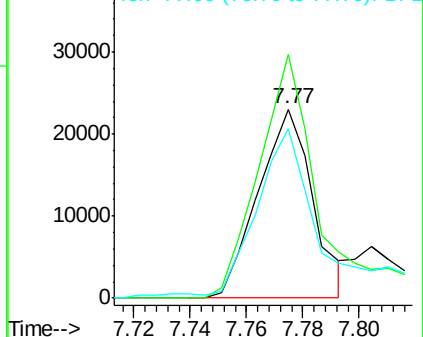


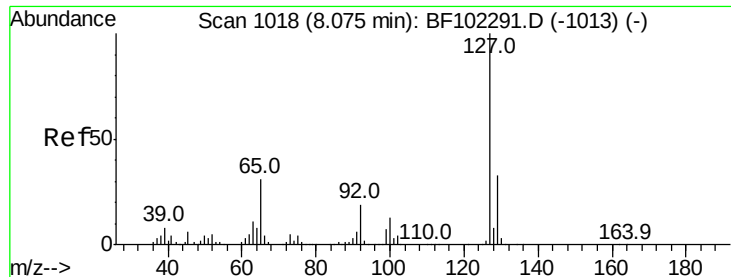
#32
Benzoic acid
Concen: 3.971 ng
RT: 7.77 min Scan# 967
Delta R.T. -0.04 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion:122 Resp: 30695
Ion Ratio Lower Upper
122 100
105 128.9 101.1 141.1
77 89.7 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

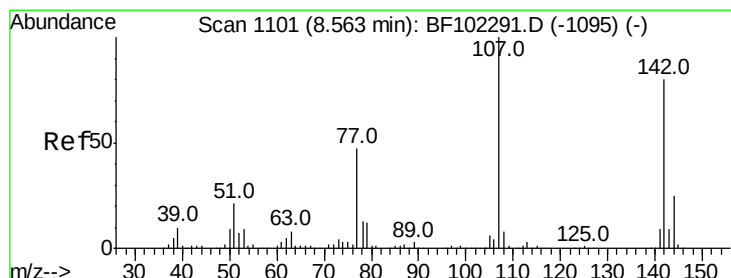
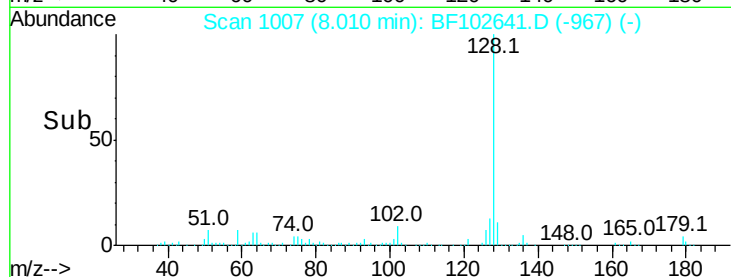
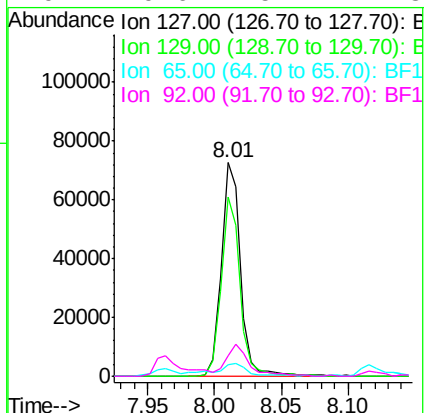
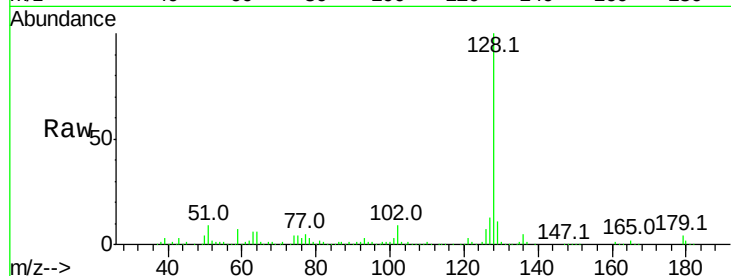




#33
4-Chloroaniline
Concen: 5.177 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.06 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

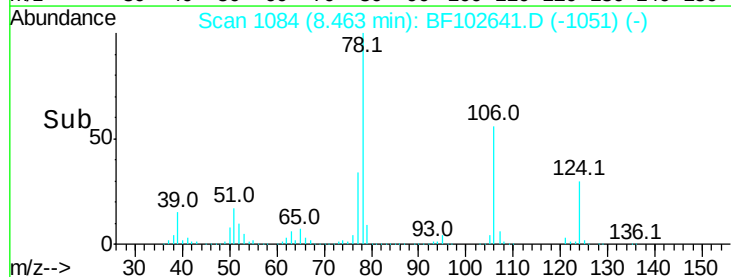
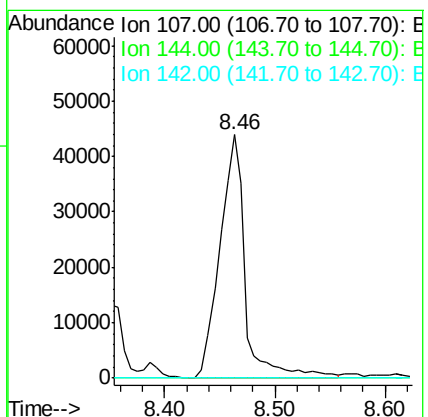
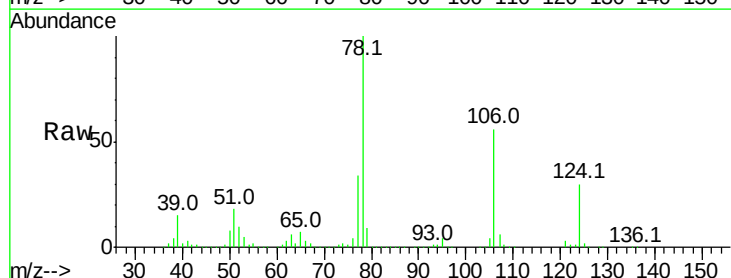
Instrument :
BNA_F
ClientSampled :

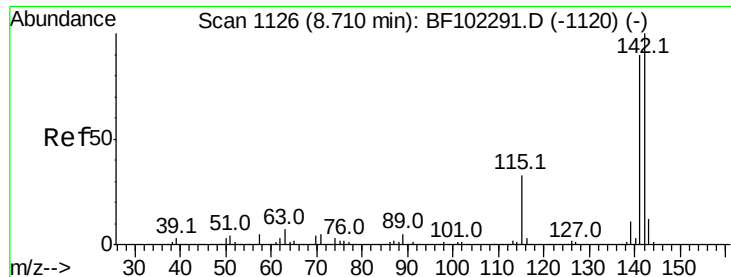
Tot Ion	Ratio	Lower	Upper
127	100		
129	83.7	25.9	38.9#
65	5.5	25.0	37.4#
92	9.6	15.2	22.8#



#36
4-Chloro-3-methylphenol
Concen: 7.038 ng
RT: 8.46 min Scan# 1084
Delta R.T. -0.11 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion	Ratio	Lower	Upper
107	100		
144	0.0	20.5	30.7#
142	0.0	62.0	93.0#

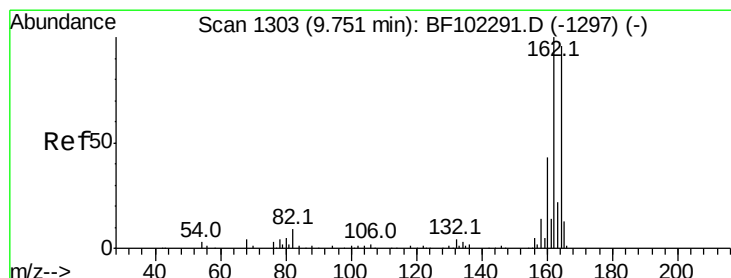
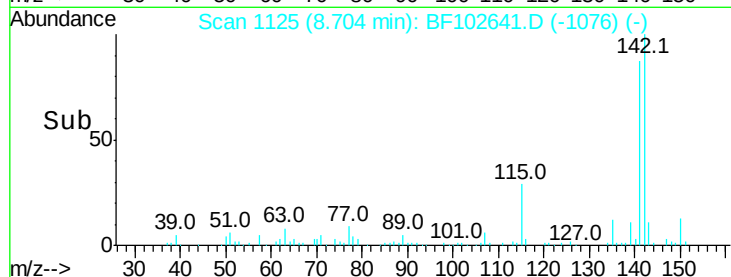
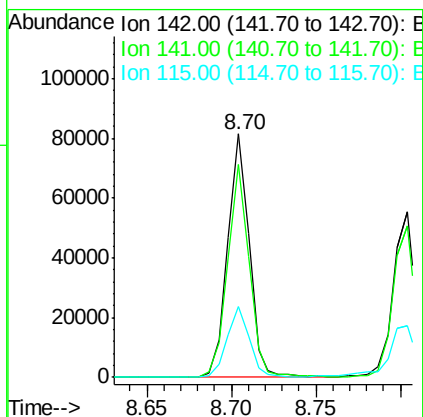
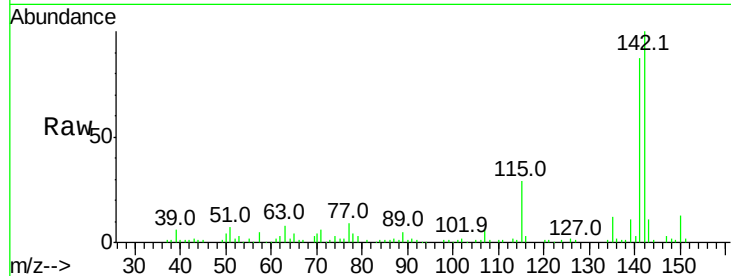




#37
 2-Methylnaphthalene
 Concen: 3.213 ng
 RT: 8.70 min Scan# 1125
 Delta R.T. -0.01 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

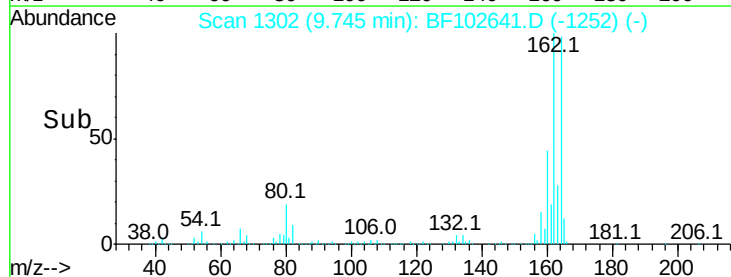
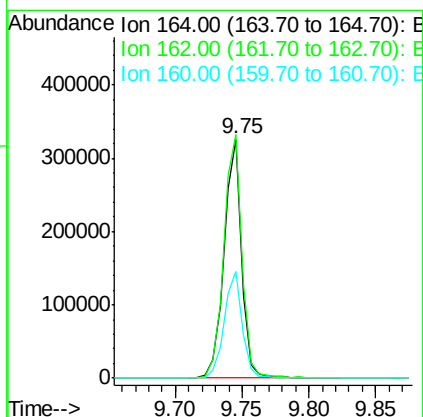
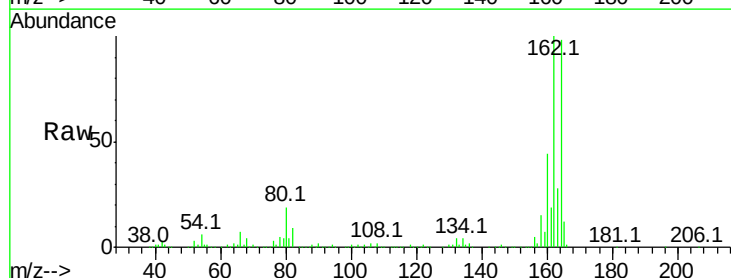
Instrument :
 BNA_F
 ClientSampled :

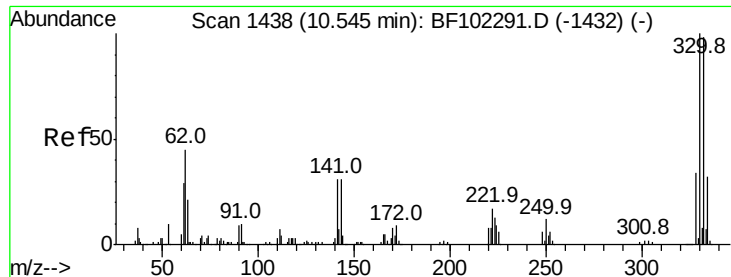
Tot Ion:142 Resp: 72426
 Ion Ratio Lower Upper
 142 100
 141 87.4 70.8 106.2
 115 29.1 26.1 39.1



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

Tgt Ion:164 Resp: 303316
 Ion Ratio Lower Upper
 164 100
 162 101.9 86.1 129.1
 160 44.6 38.3 57.5

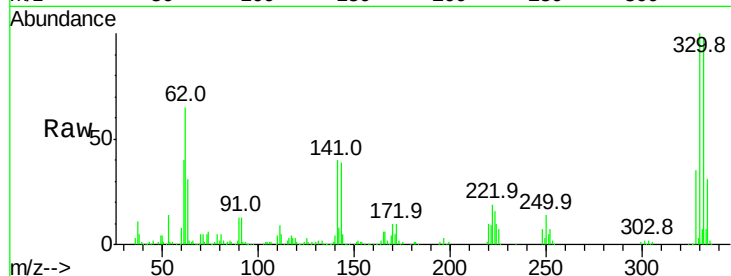




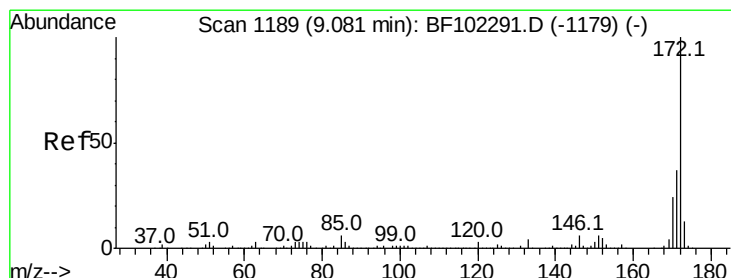
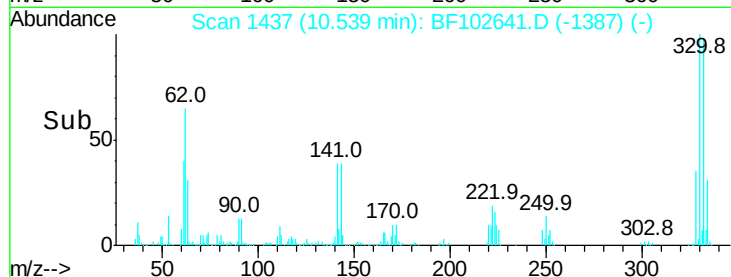
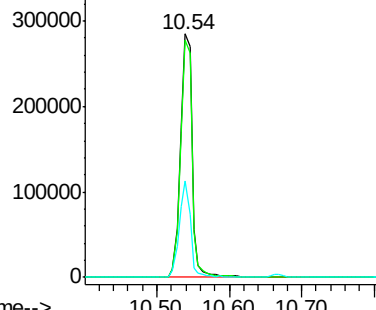
#41
 2,4,6-Tribromophenol
 Concen: 106.181 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.0	115.6
141	38.5	29.9	44.9

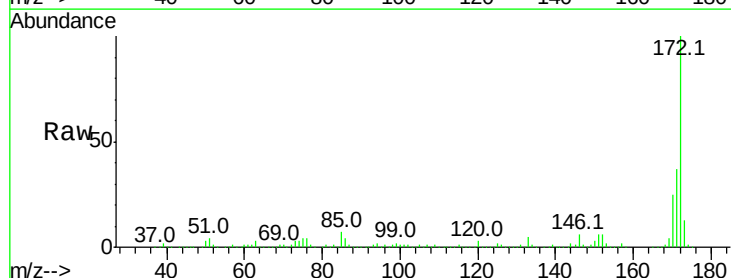


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

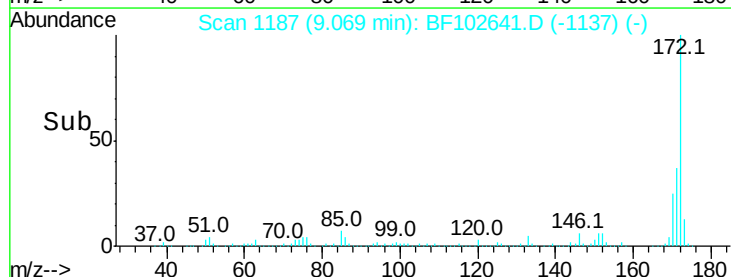
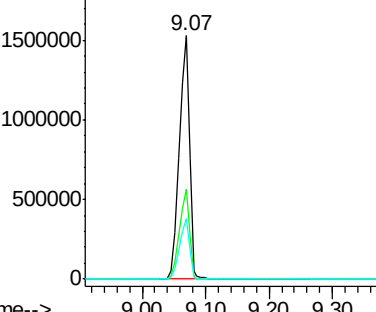


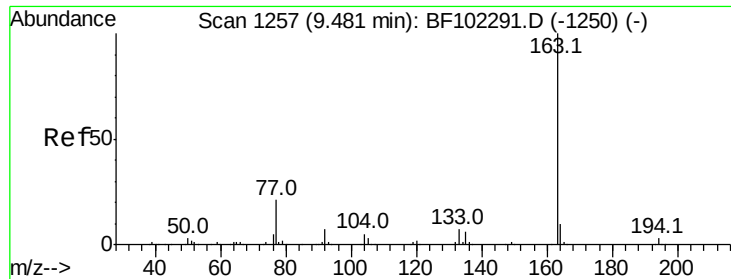
#44
 2-Fluorobiphenyl
 Concen: 81.258 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF102641.D
 Acq: 30 Jan 2018 16:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.7	44.5
170	24.7	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





#49

Dimethylphthalate

Concen: 3.344 ng

RT: 9.75 min Scan# 1302

Delta R.T. 0.26 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

Instrument :

BNA_F

ClientSampleId :

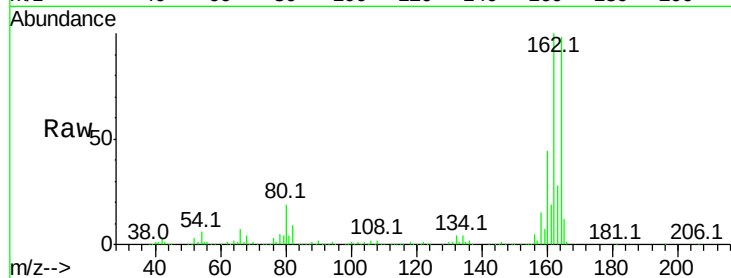
Tot Ion:163 Resp: 83842

Ion Ratio Lower Upper

163 100

194 0.0 2.7 4.1#

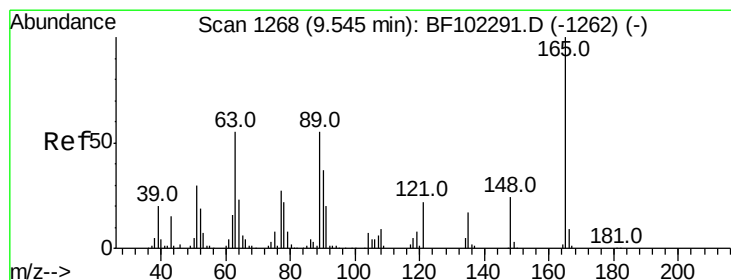
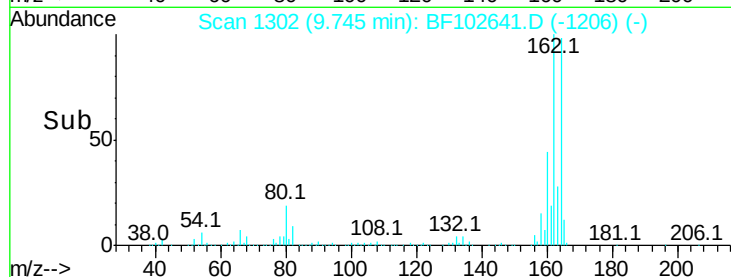
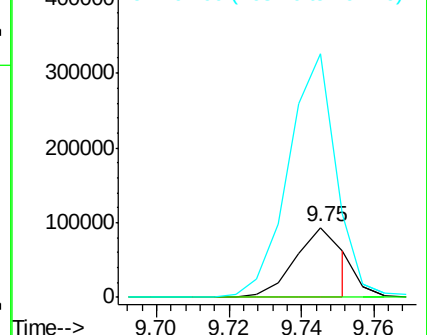
164 348.0 8.2 12.2#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 7.300 ng

RT: 9.75 min Scan# 1302

Delta R.T. 0.19 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

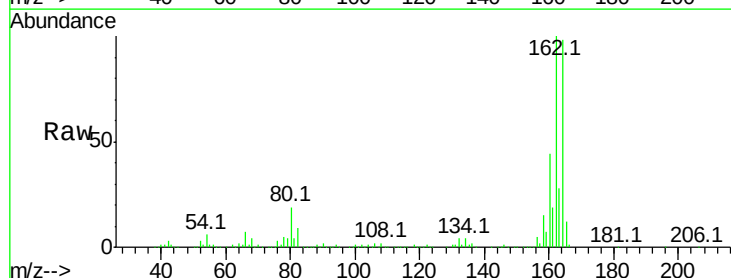
Tgt Ion:165 Resp: 39460

Ion Ratio Lower Upper

165 100

63 2.3 44.7 67.1#

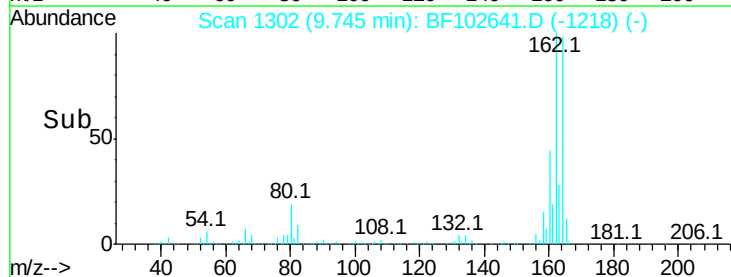
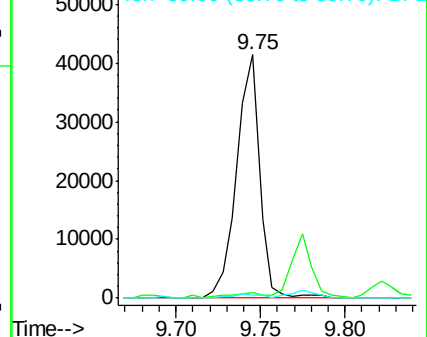
89 1.5 44.0 66.0#

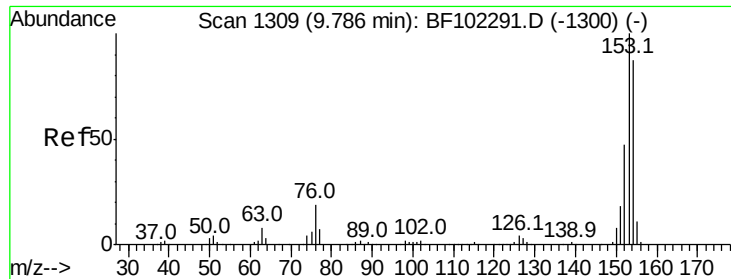


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 5.636 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

Instrument :

BNA_F

ClientSampleId :

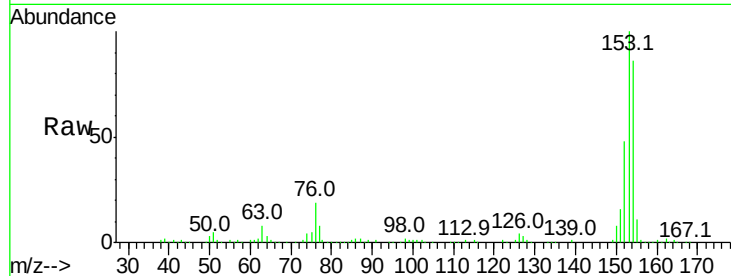
Tot Ion:154 Resp: 108103

Ion Ratio Lower Upper

154 100

153 116.3 91.2 136.8

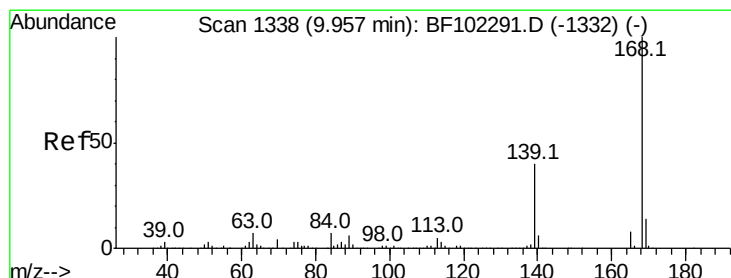
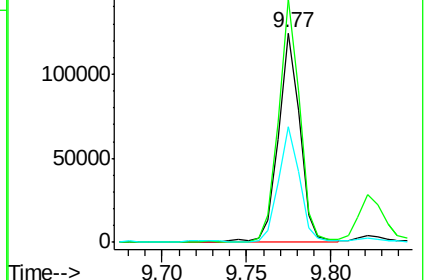
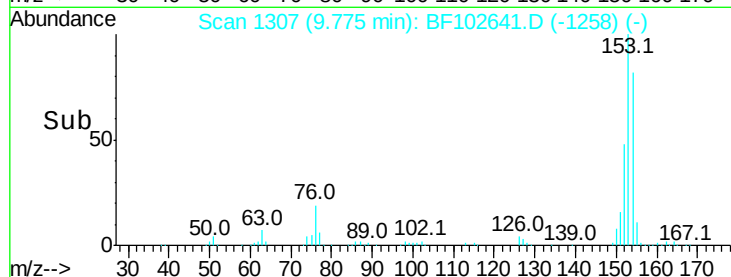
152 55.3 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.125 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

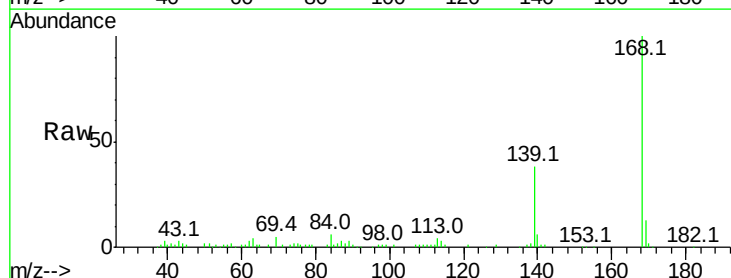
Tgt Ion:168 Resp: 81114

Ion Ratio Lower Upper

168 100

139 37.5 30.1 45.1

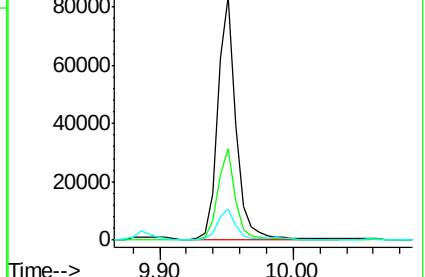
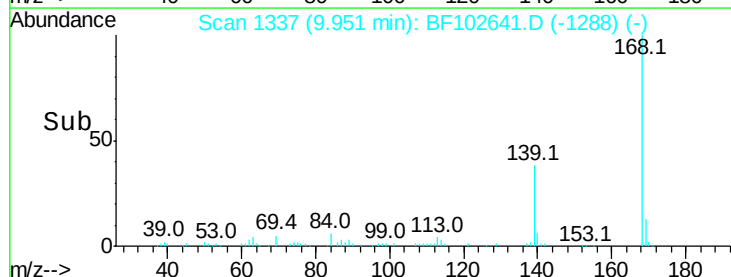
169 12.8 10.9 16.3

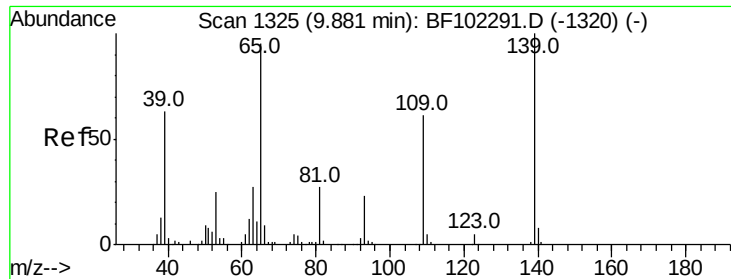


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

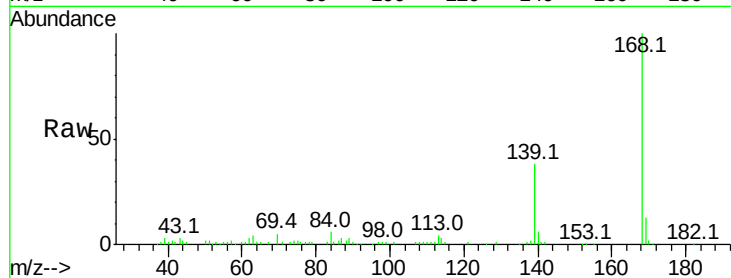




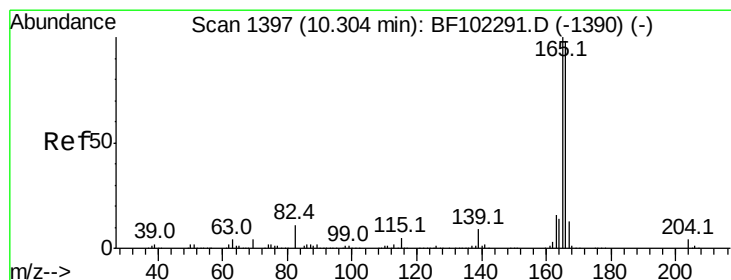
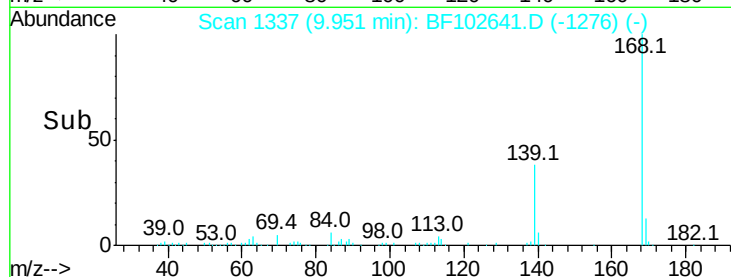
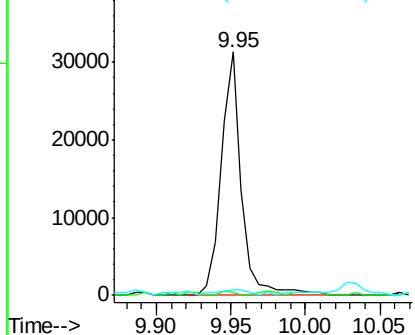
#55
4-Nitrophenol
Concen: 7.069 ng
RT: 9.95 min Scan# 1337
Delta R.T. 0.06 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 29837
Ion Ratio Lower Upper
139 100
109 1.4 48.4 88.4#
65 2.2 72.6 112.6#

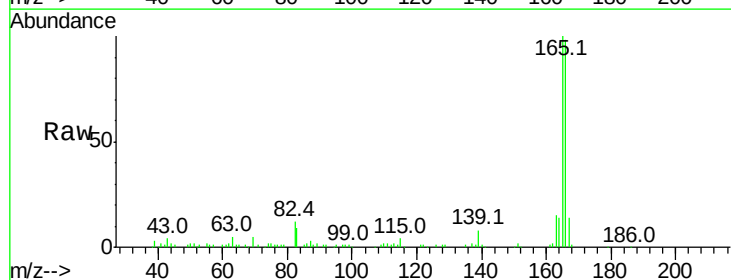


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

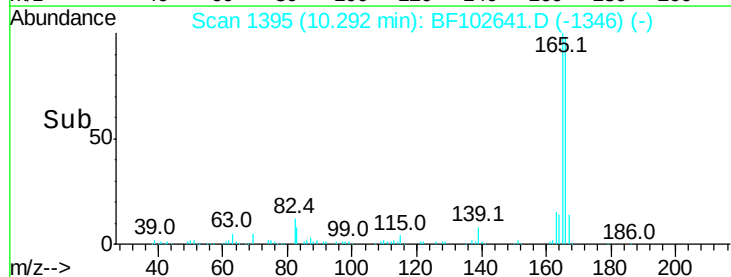
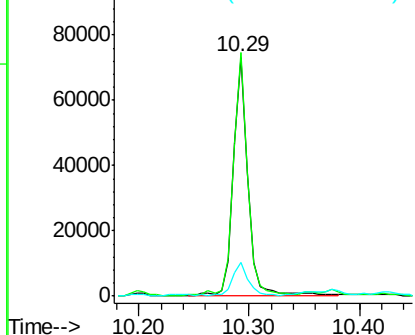


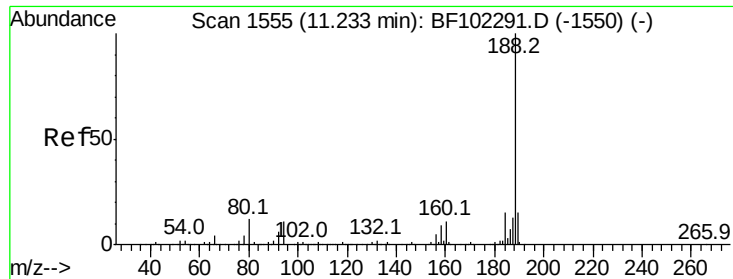
#57
Fluorene
Concen: 3.391 ng
RT: 10.29 min Scan# 1395
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion:166 Resp: 69759
Ion Ratio Lower Upper
166 100
165 101.9 79.8 119.8
167 14.0 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

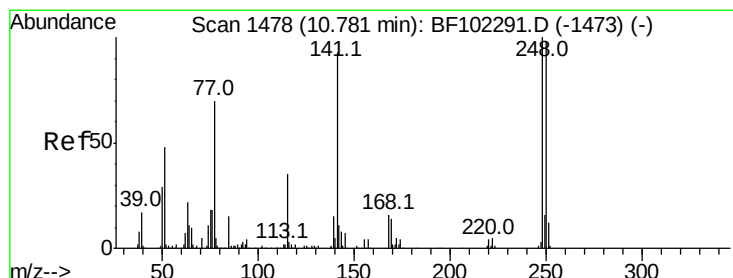
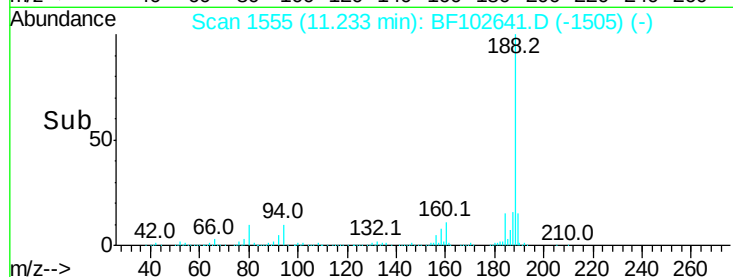
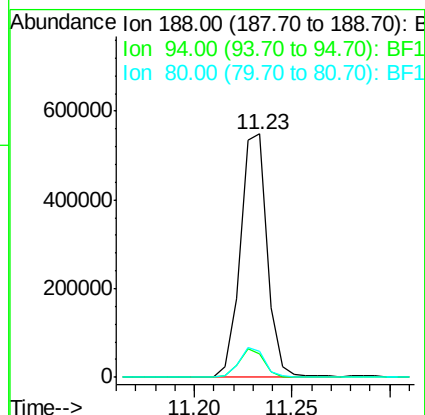
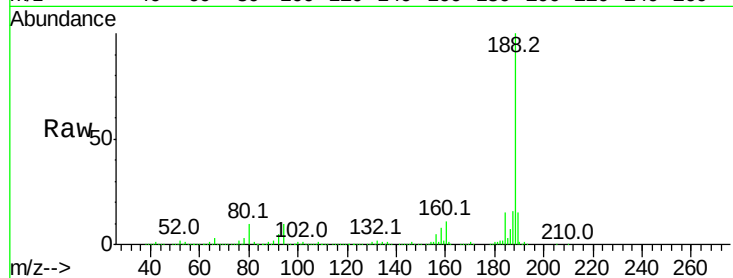




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

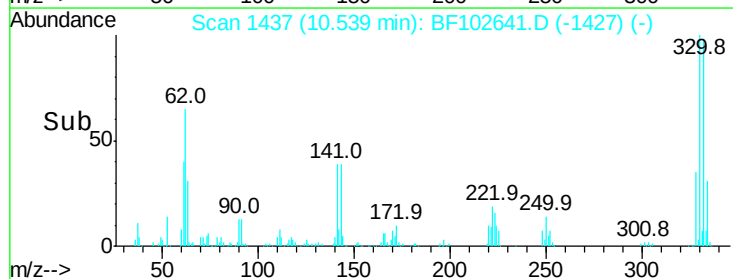
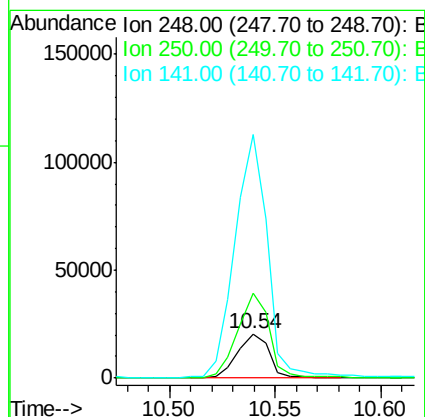
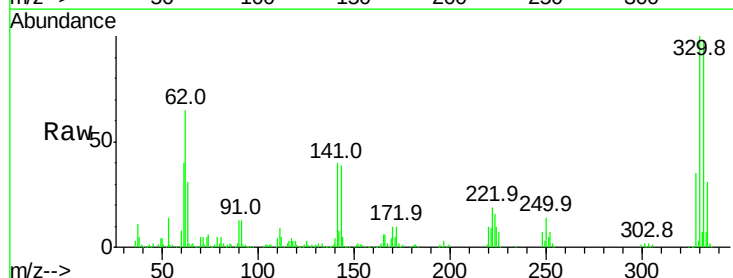
Instrument :
BNA_F
ClientSampleId :

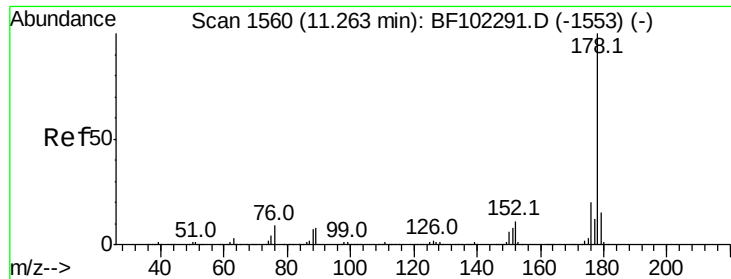
Tot Ion:188 Resp: 525611
Ion Ratio Lower Upper
188 100
94 9.7 8.5 12.7
80 10.5 9.2 13.8



#66
4-Bromophenyl-phenylether
Concen: 3.783 ng
RT: 10.54 min Scan# 1437
Delta R.T. -0.24 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Tgt Ion:248 Resp: 21407
Ion Ratio Lower Upper
248 100
250 192.4 76.9 115.3#
141 552.8 74.4 111.6#





#70

Phenanthrene

Concen: 3.757 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

Instrument :

BNA_F

ClientSampleId :

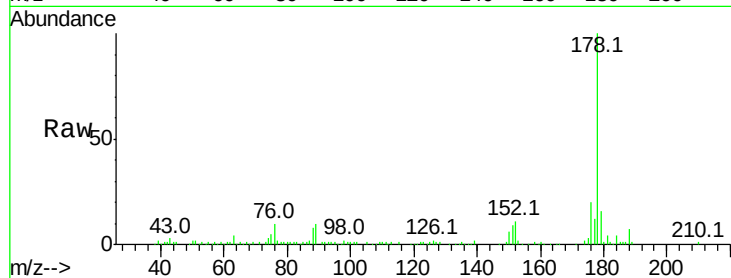
Tot Ion:178 Resp: 115056

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

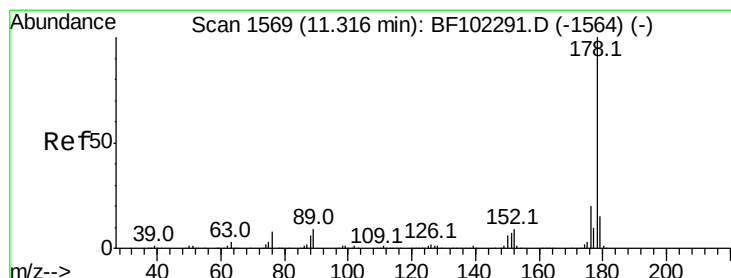
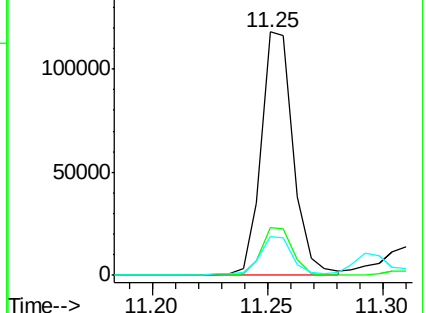
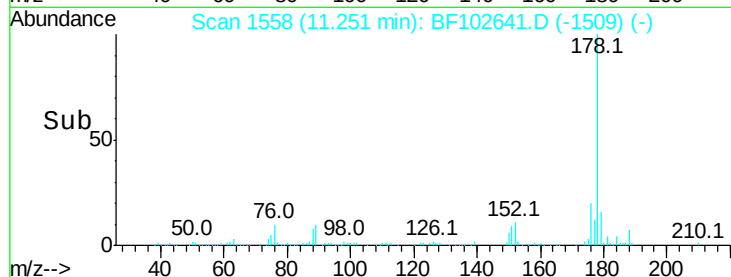
179 16.1 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 3.680 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.06 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

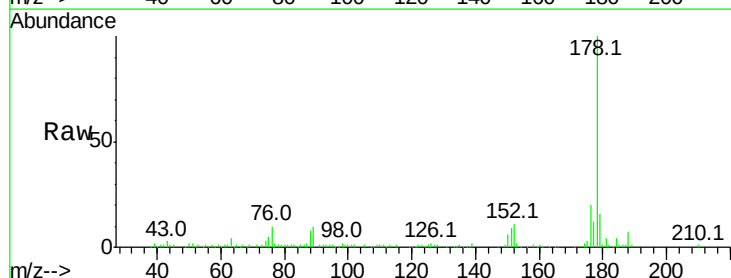
Tgt Ion:178 Resp: 115056

Ion Ratio Lower Upper

178 100

176 19.7 15.4 23.2

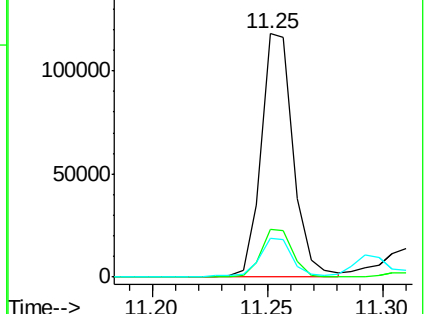
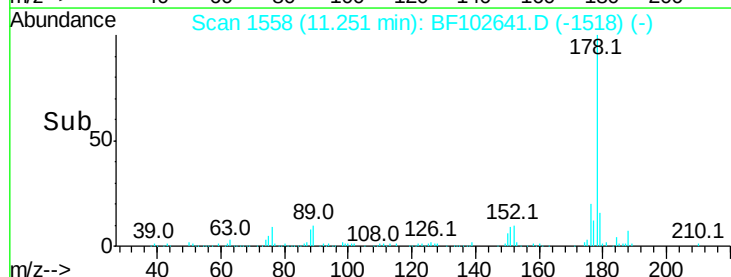
179 16.1 12.6 19.0

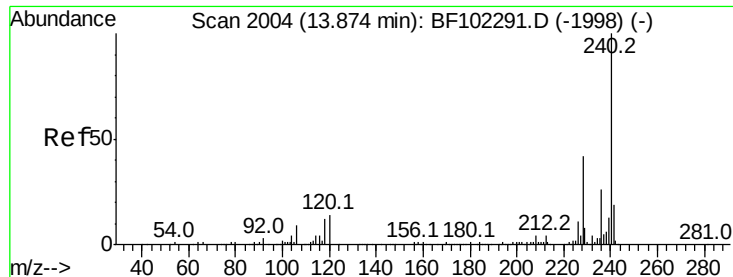


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

Instrument :

BNA_F

ClientSampled :

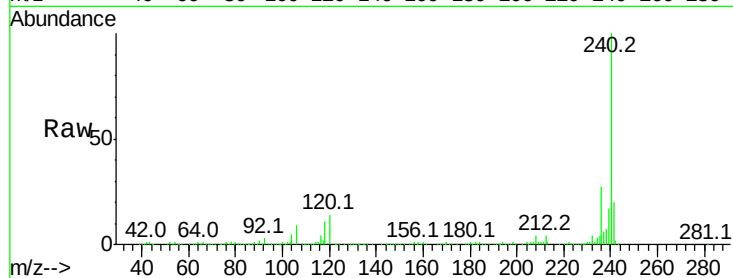
Tot Ion:240 Resp: 460200

Ion Ratio Lower Upper

240 100

120 13.6 9.5 14.3

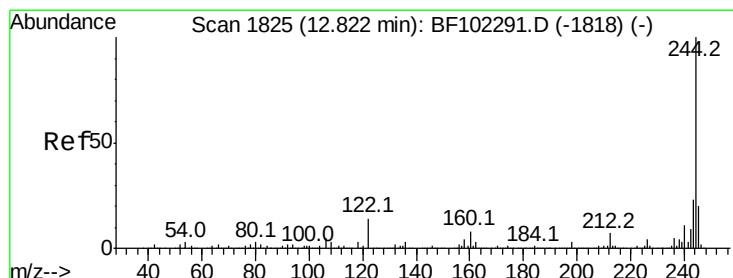
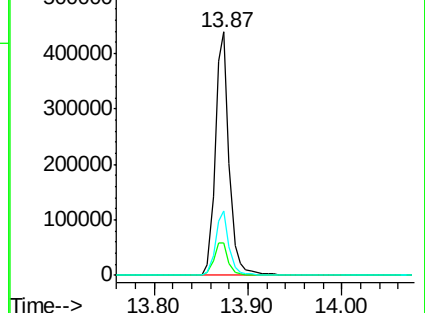
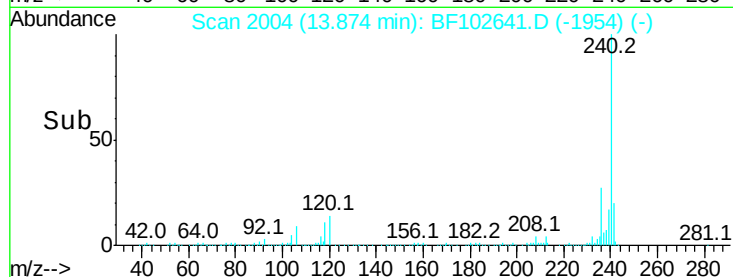
236 26.7 20.7 31.1



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



#78

Terphenyl-d14

Concen: 73.010 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF102641.D

Acq: 30 Jan 2018 16:04

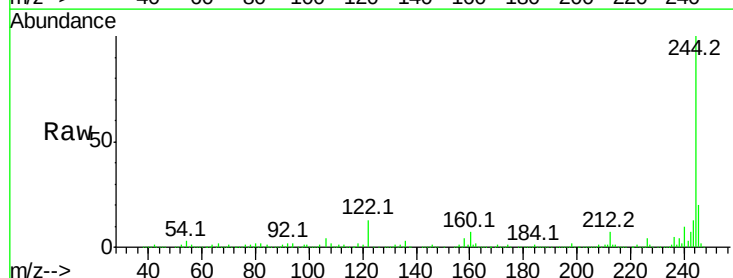
Tgt Ion:244 Resp: 1490416

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

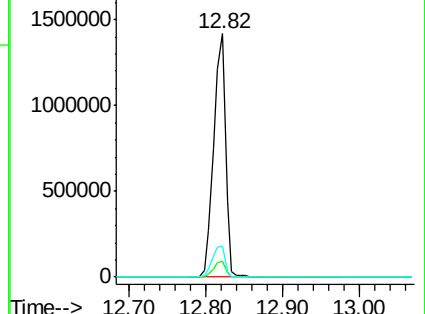
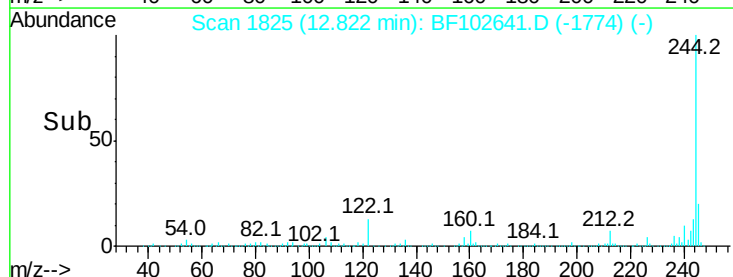
122 12.7 11.0 16.4

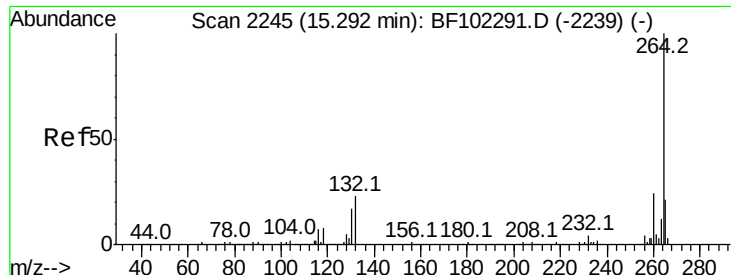


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

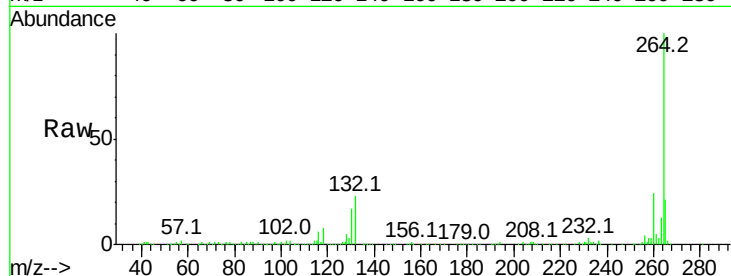




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF102641.D
Acq: 30 Jan 2018 16:04

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	20.7	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

