

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF102002.D
 Acq On : 11 Jan 2018 1:43
 Operator : SJ/JU
 Sample : J1076-17 50X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-52-01

Quant Time: Jan 11 04:59:51 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	207175	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	819472	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	340248	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	511404	20.00	ng	0.00
75) Chrysene-d12	13.87	240	327120	20.00	ng	0.00
86) Perylene-d12	15.29	264	378162	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	4748	0.32	ng	0.00
7) Phenol-d6	6.35	99	5705	0.33	ng	0.00
23) Nitrobenzene-d5	7.28	82	2920	0.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	538	0.18	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	6671	0.31	ng	-0.01
78) Terphenyl-d14	12.82	244	4575	0.29	ng	-0.01

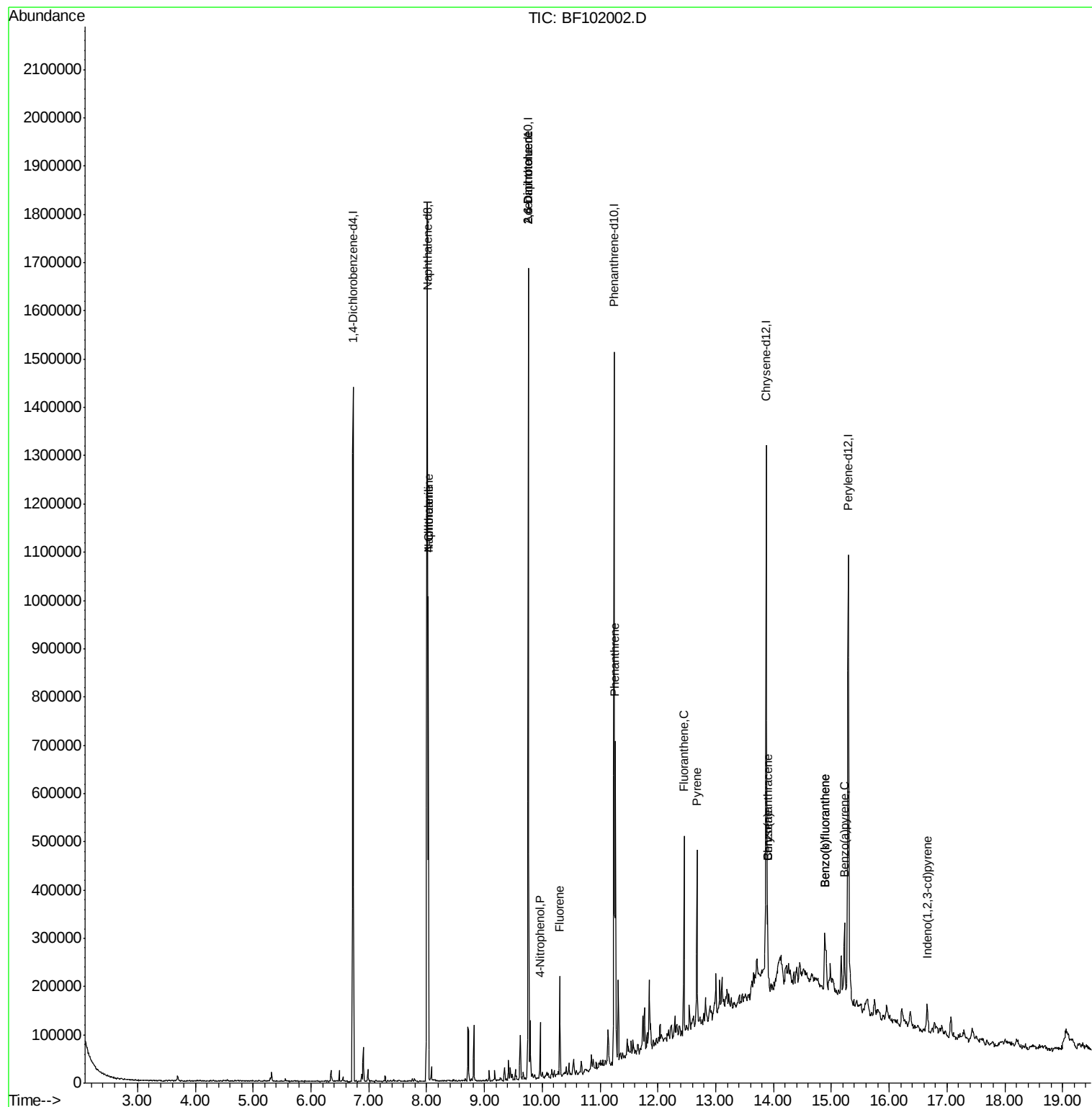
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.03	128	374506	9.146	ng	99
33) 4-Chloroaniline	8.03	127	47817	2.736	ng	# 31
50) 2,6-Dinitrotoluene	9.76	165	43905	8.053	ng	# 25
55) 4-Nitrophenol	9.96	139	14758	2.878	ng	# 10
56) 2,4-Dinitrotoluene	9.76	165	43905	6.425	ng	# 23
57) Fluorene	10.30	166	48855	2.292	ng	99
70) Phenanthrene	11.26	178	207323	6.940	ng	99
74) Fluoranthene	12.45	202	152483	5.188	ng	96
77) Pyrene	12.67	202	140110	4.846	ng	98
80) Benzo(a)anthracene	13.90	228	46178	2.213	ng	92
82) Chrysene	13.90	228	46178	2.122	ng	96
85) Indeno(1,2,3-cd)pyrene	16.66	276	33386	2.108	ng	92
87) Benzo(b)fluoranthene	14.89	252	88712	3.598	ng	# 91
88) Benzo(k)fluoranthene	14.89	252	88712	3.730	ng	# 94
89) Benzo(a)pyrene	15.23	252	57736	2.602	ng	# 92

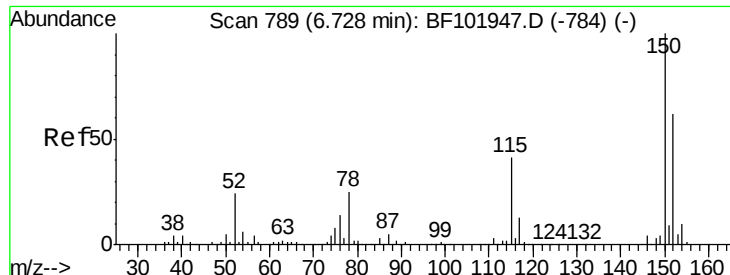
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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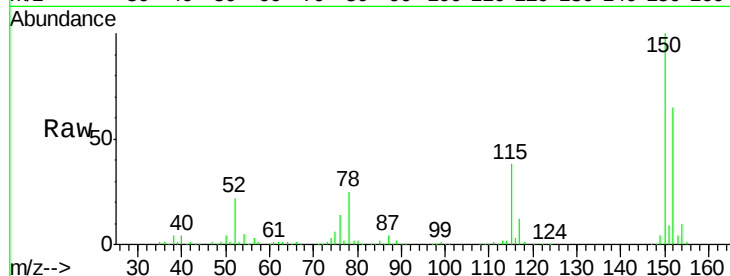


#1

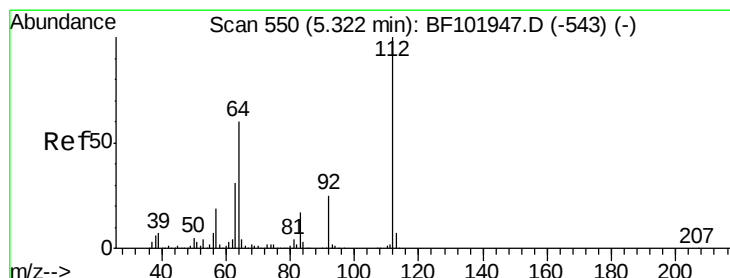
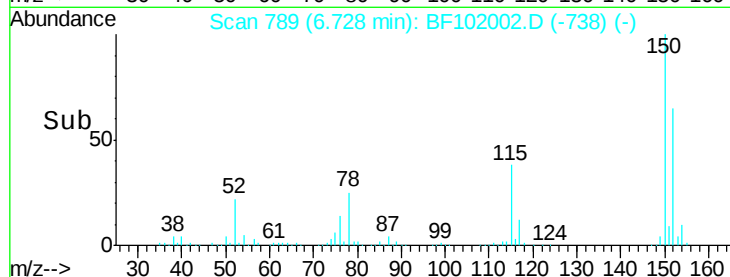
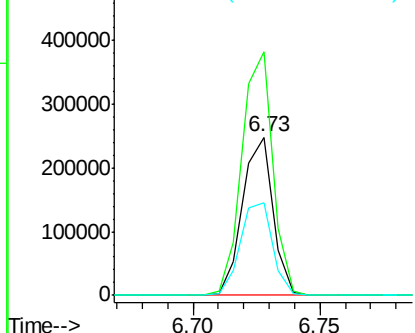
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.00 min
 Lab File: BF102002.D
 Acq: 11 Jan 2018 1:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-52-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.6	186.8
115	58.6	50.1	75.1



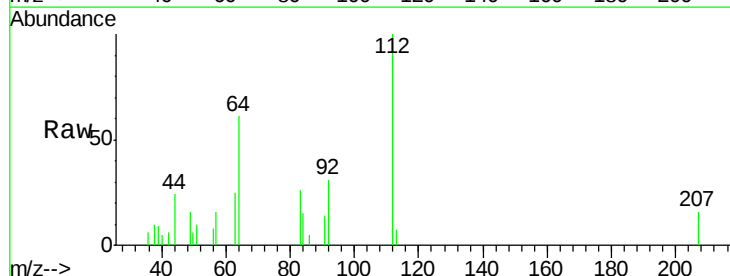
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



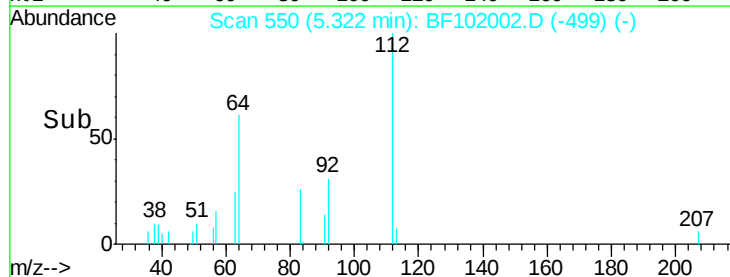
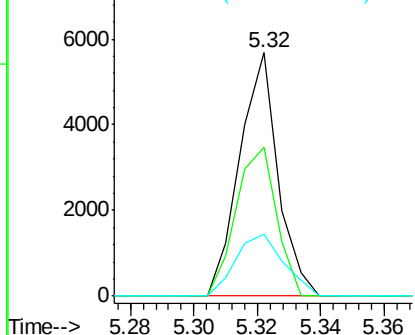
#5

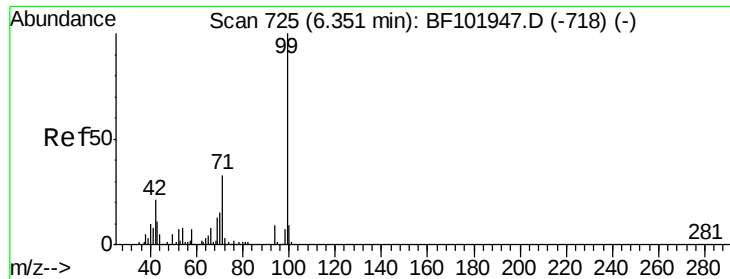
2-Fluorophenol
 Concen: 0.324 ng
 RT: 5.32 min Scan# 550
 Delta R.T. 0.00 min
 Lab File: BF102002.D
 Acq: 11 Jan 2018 1:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.1	47.9	71.9
63	25.3	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: 0.326 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

Instrument :

BNA_F

ClientSampleId :

WC-52-01

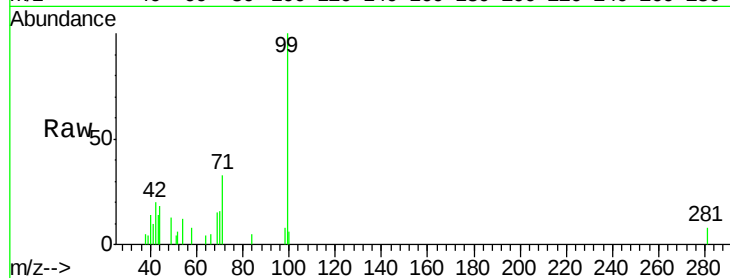
Tot Ion: 99 Resp: 5705

Ion Ratio Lower Upper

99 100

42 19.9 14.5 21.7

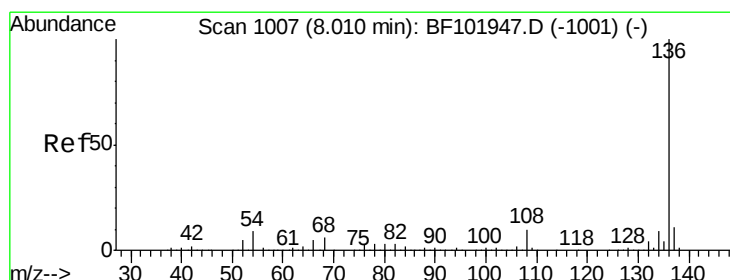
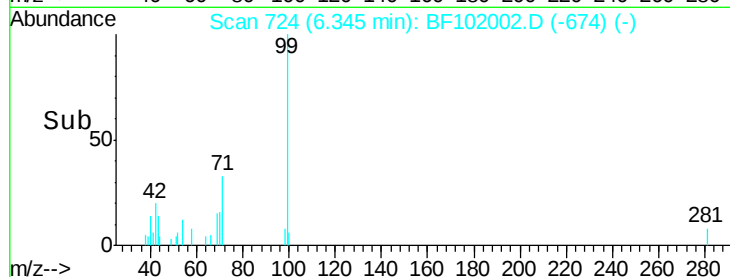
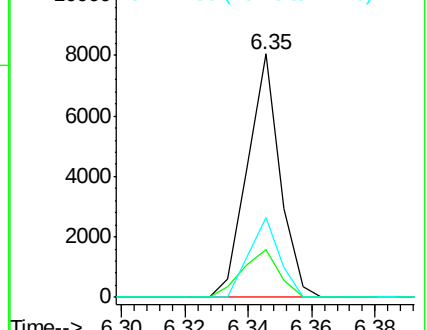
71 32.6 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

Tgt Ion: 136 Resp: 819472

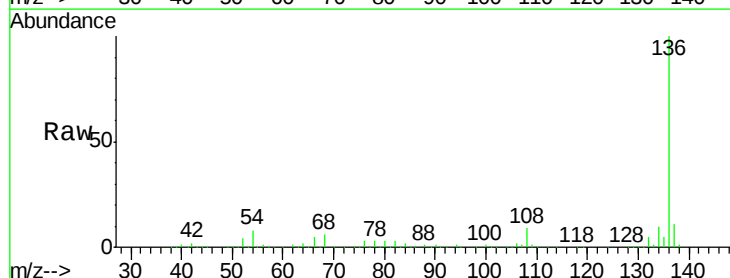
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 8.2 6.6 9.8

68 5.9 5.0 7.4

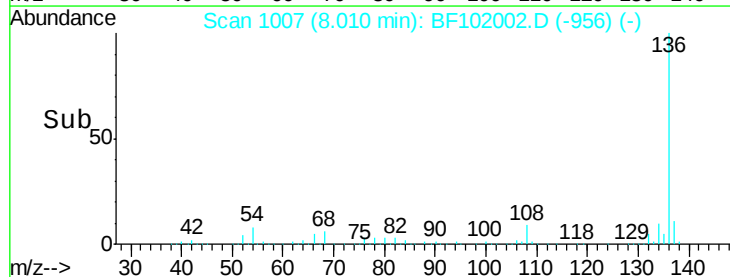
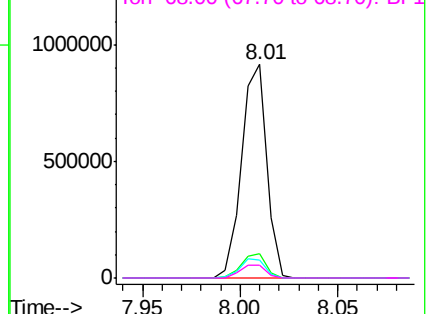


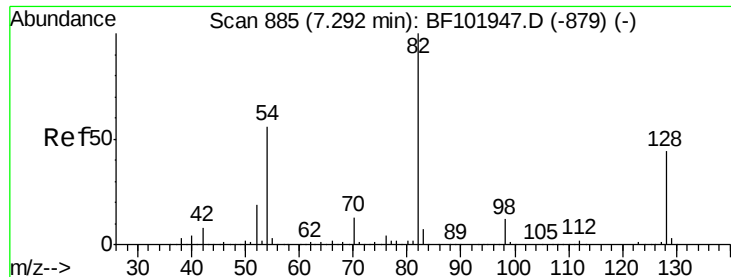
Abundance Ion 136.00 (135.70 to 136.70): E

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

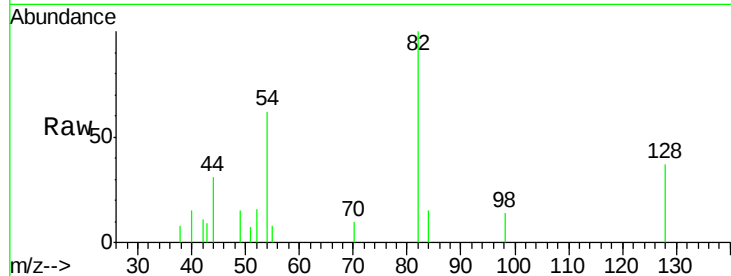




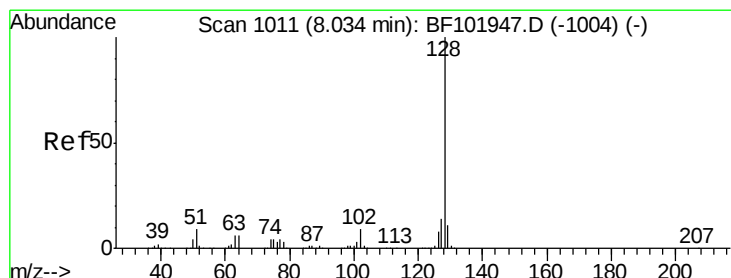
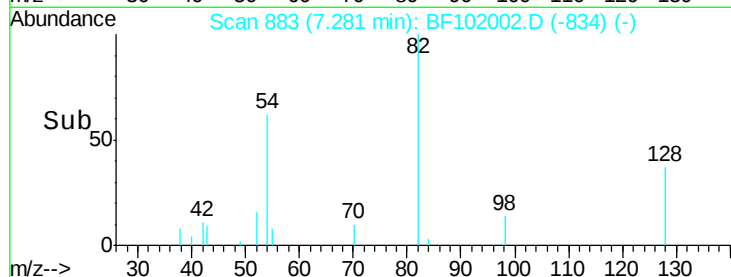
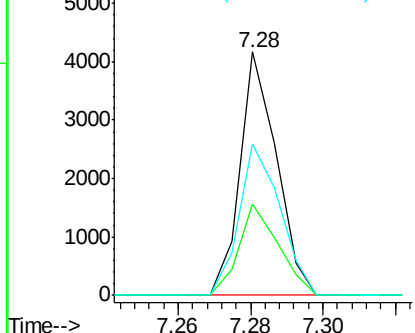
#23
Nitrobenzene-d5
Concen: 0.209 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion: 82 Resp: 2920
Ion Ratio Lower Upper
82 100
128 37.3 36.1 54.1
54 62.3 41.4 62.2#

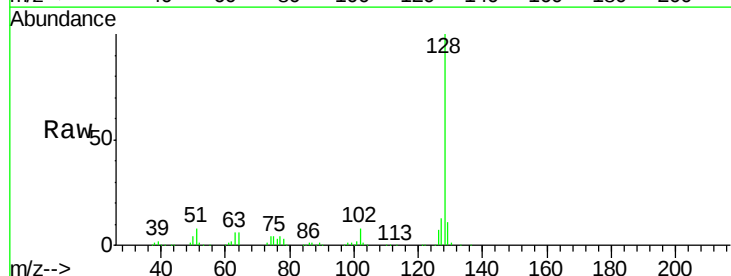


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

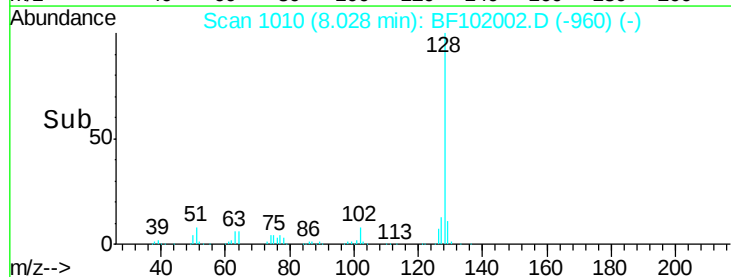
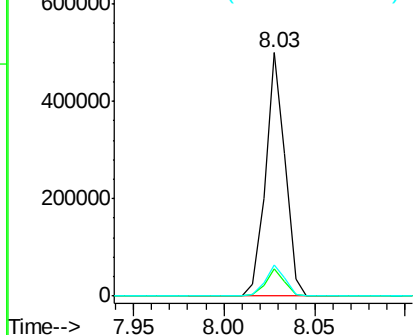


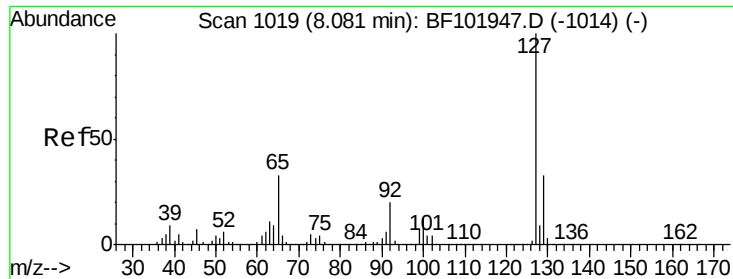
#31
Naphthalene
Concen: 9.146 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Tgt Ion: 128 Resp: 374506
Ion Ratio Lower Upper
128 100
129 11.0 8.8 13.2
127 12.7 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

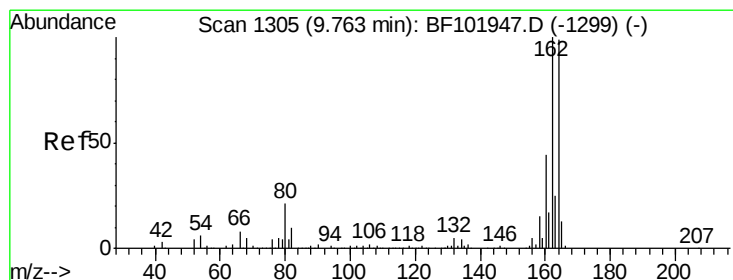
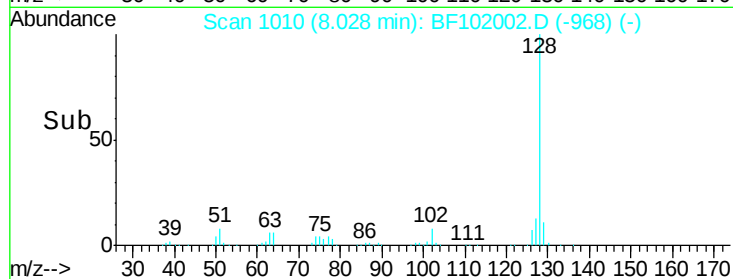
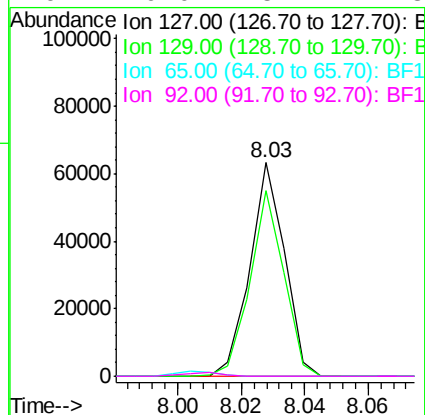
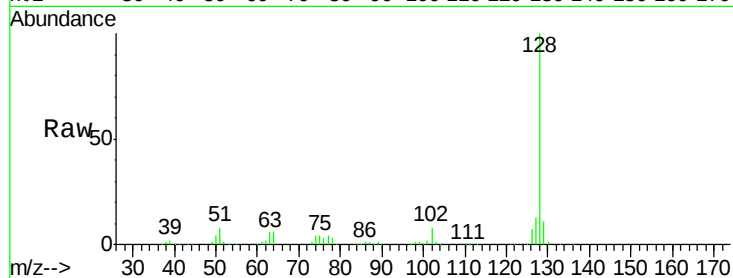




#33
4-Chloroaniline
Concen: 2.736 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.05 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

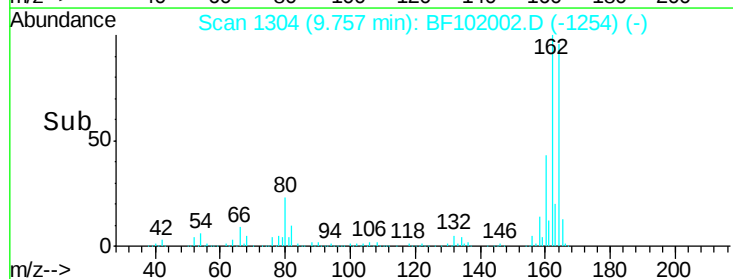
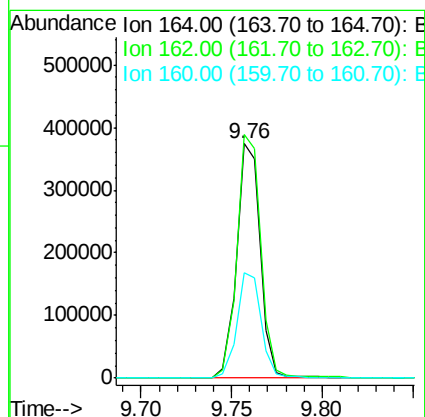
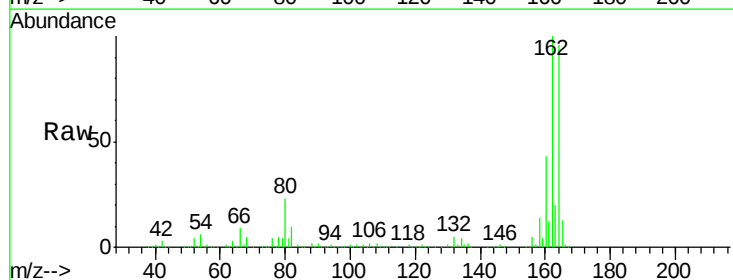
Instrument :
BNA_F
ClientSampleId :
WC-52-01

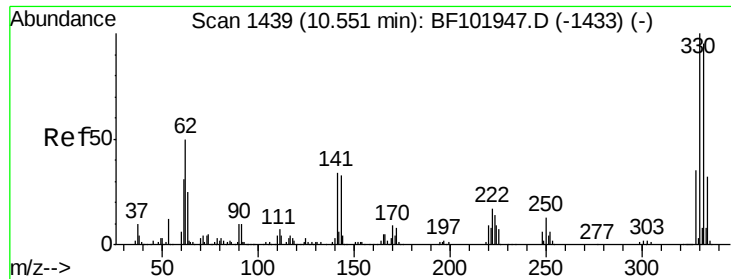
Tot Ion:127 Resp: 47817
Ion Ratio Lower Upper
127 100
129 87.1 25.9 38.9#
65 0.0 25.0 37.4#
92 0.0 15.2 22.8#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Tgt Ion:164 Resp: 340248
Ion Ratio Lower Upper
164 100
162 103.9 86.1 129.1
160 44.9 38.3 57.5





#41

2,4,6-Tribromophenol

Concen: 0.181 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

Instrument :

BNA_F

ClientSampleId :

WC-52-01

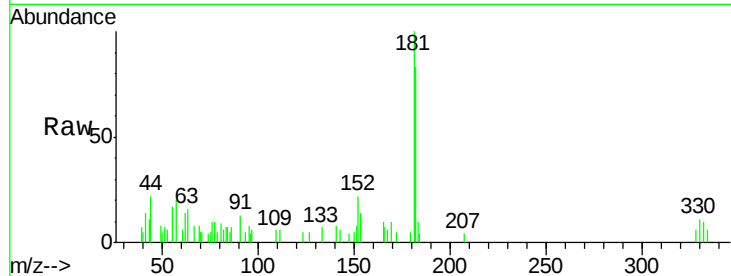
Tot Ion:330 Resp: 538

Ion Ratio Lower Upper

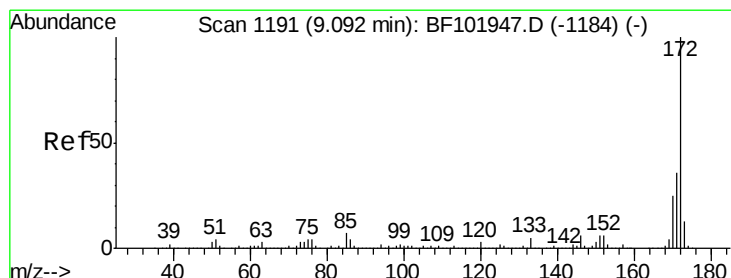
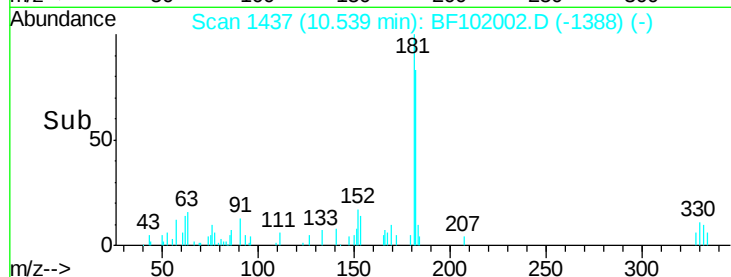
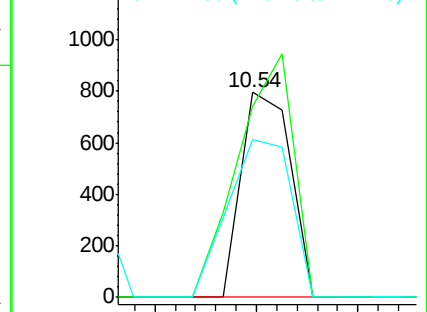
330 100

332 132.3 77.0 115.6#

141 98.5 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: 0.306 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

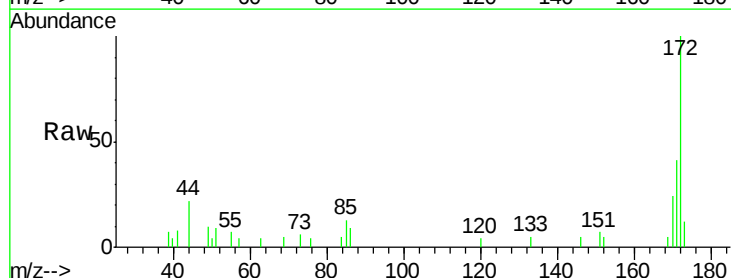
Tgt Ion:172 Resp: 6671

Ion Ratio Lower Upper

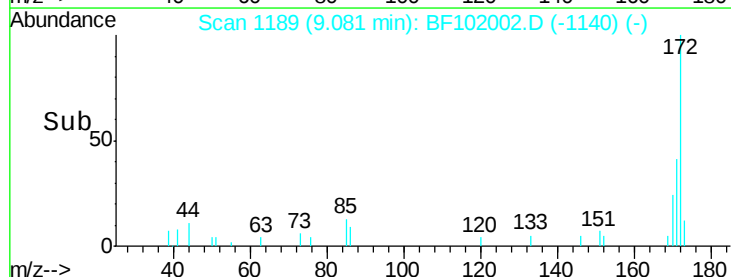
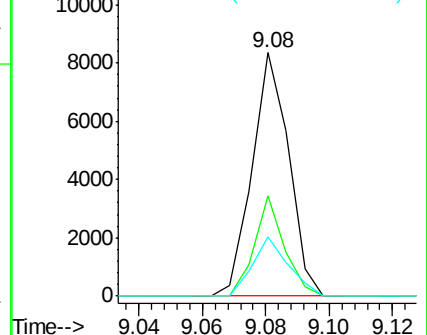
172 100

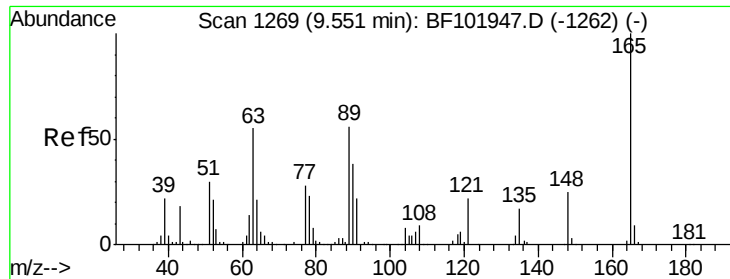
171 41.0 29.7 44.5

170 24.1 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

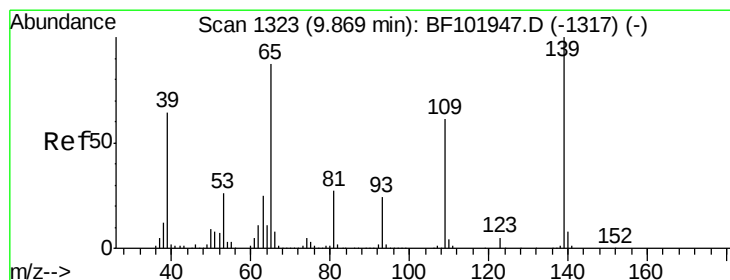
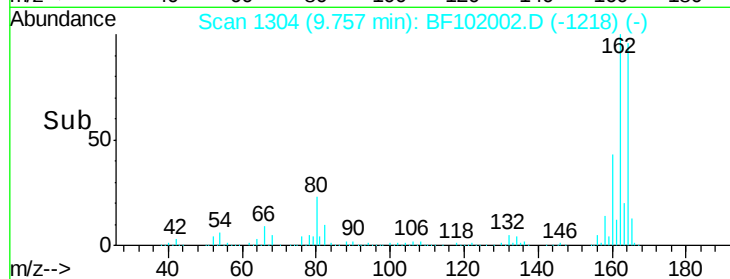
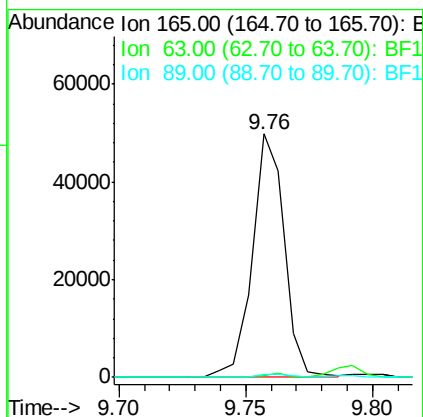
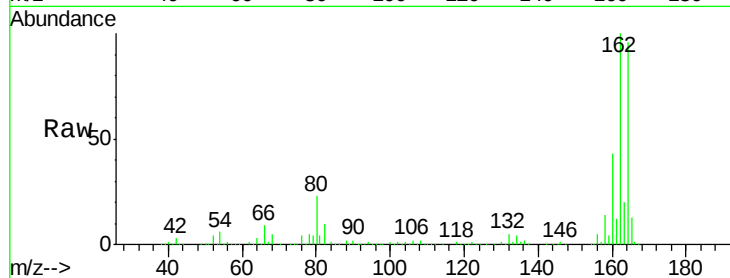




#50
2,6-Dinitrotoluene
Concen: 8.053 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.21 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

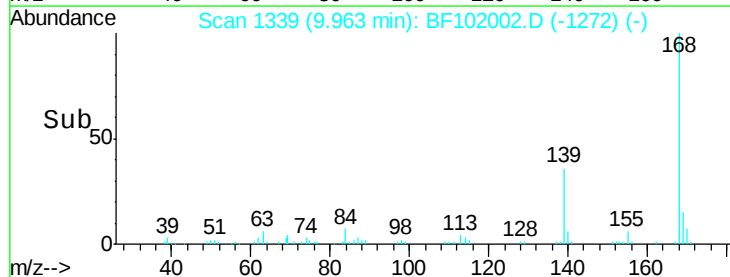
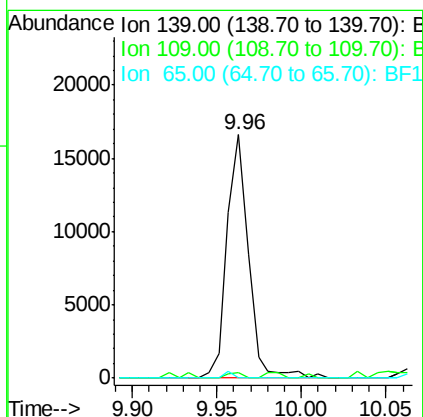
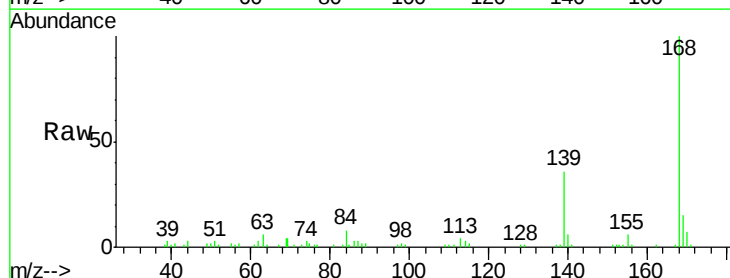
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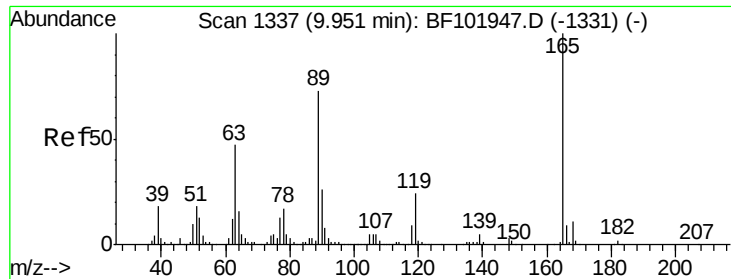
Tot Ion:165 Resp: 43905
Ion Ratio Lower Upper
165 100
63 0.8 44.7 67.1#
89 1.5 44.0 66.0#



#55
4-Nitrophenol
Concen: 2.878 ng
RT: 9.96 min Scan# 1339
Delta R.T. 0.09 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Tgt Ion:139 Resp: 14758
Ion Ratio Lower Upper
139 100
109 2.4 48.4 88.4#
65 0.0 72.6 112.6#

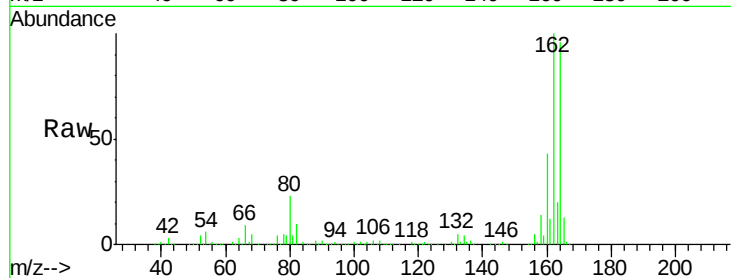




#56
2,4-Dinitrotoluene
Concen: 6.425 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.19 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.8	36.4	54.6#
89	1.5	57.8	86.6#
182	0.0	1.6	2.4#

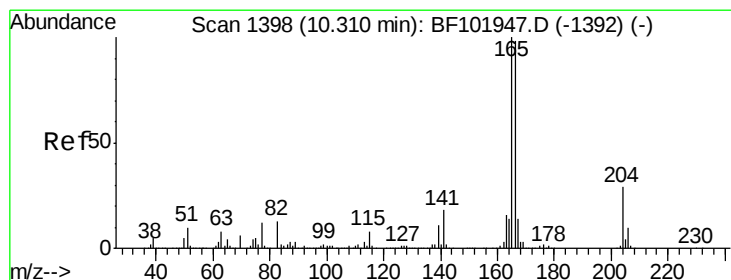
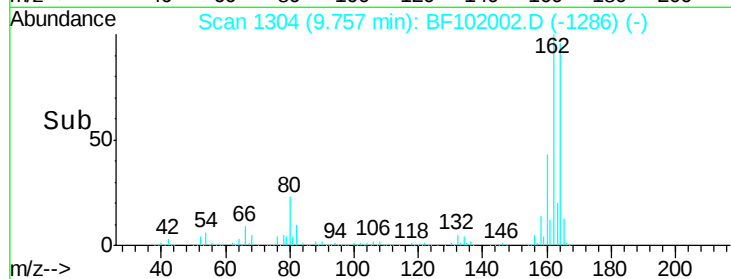
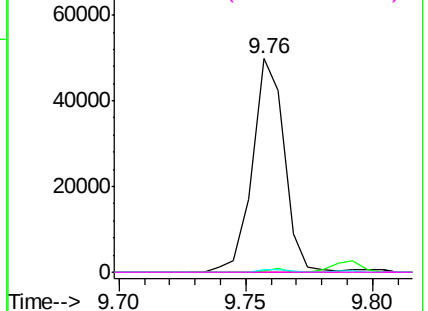


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

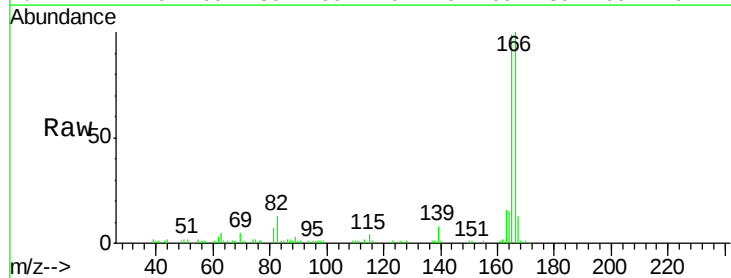
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 2.292 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

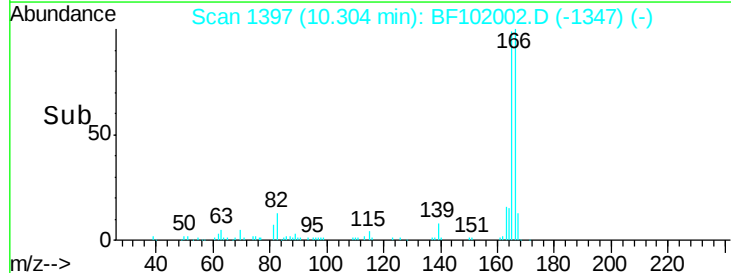
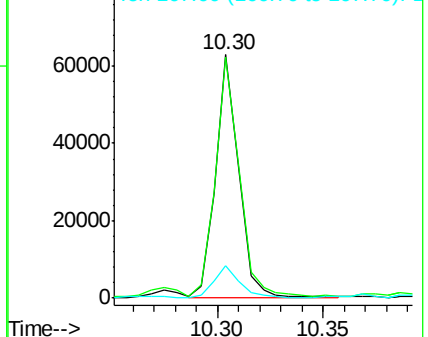
Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.8	119.8
167	13.5	10.6	16.0

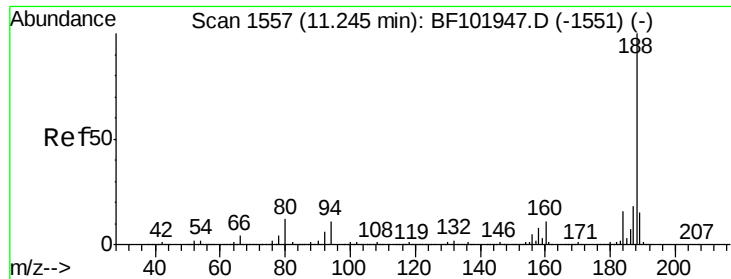


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

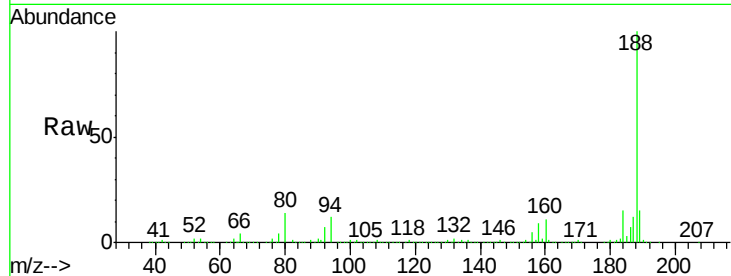




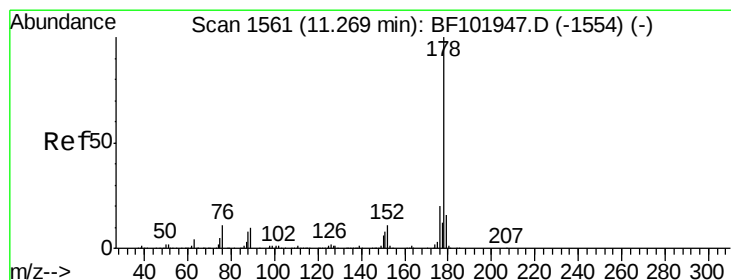
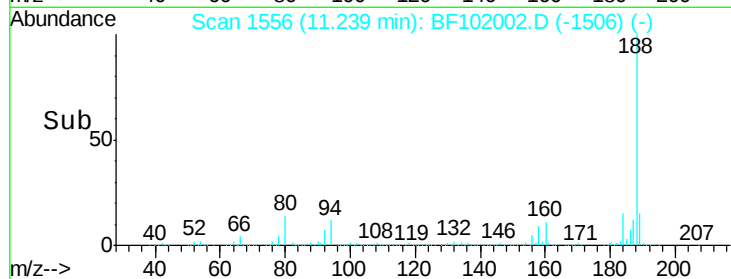
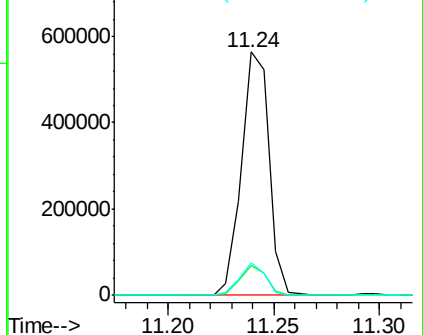
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Instrument :
BNA_F
ClientSampleId :
WC-52-01

Tot Ion:188 Resp: 511404
Ion Ratio Lower Upper
188 100
94 12.3 8.5 12.7
80 13.5 9.2 13.8

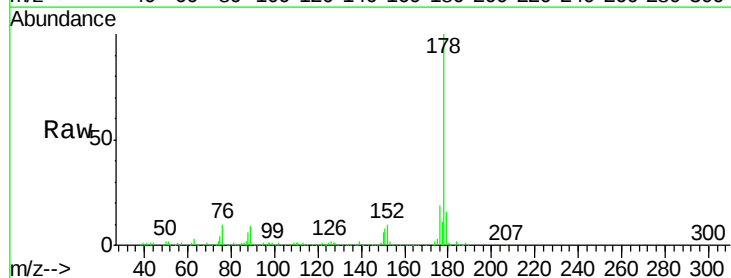


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

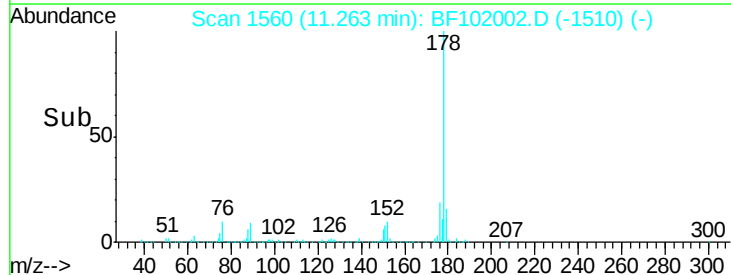
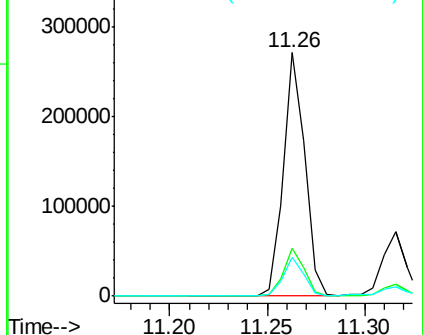


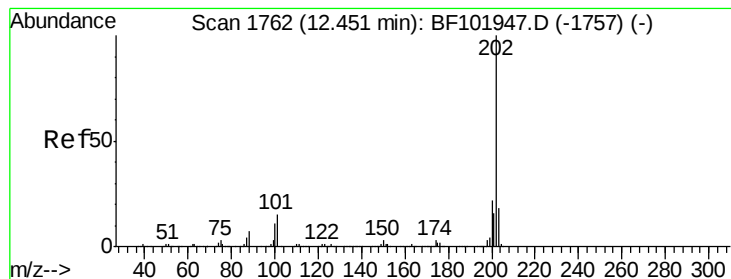
#70
Phenanthrene
Concen: 6.940 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Tgt Ion:178 Resp: 207323
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 16.0 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





#74

Fluoranthene

Concen: 5.188 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

Instrument :

BNA_F

ClientSampleId :

WC-52-01

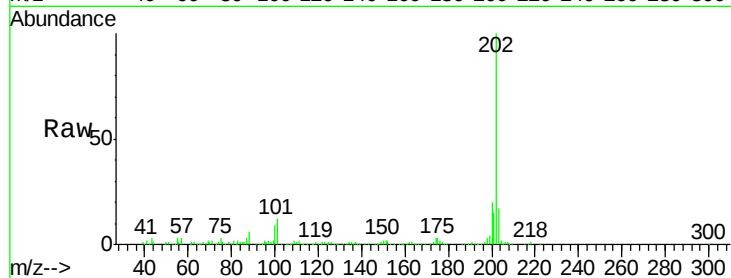
Tot Ion:202 Resp: 152483

Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.1

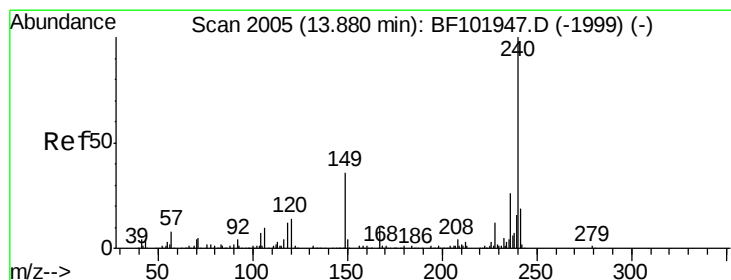
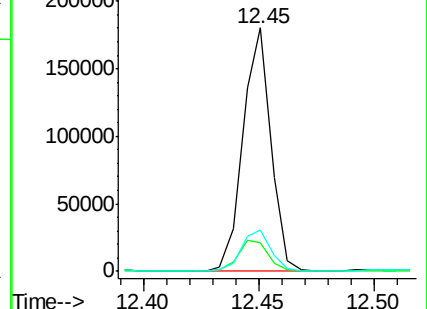
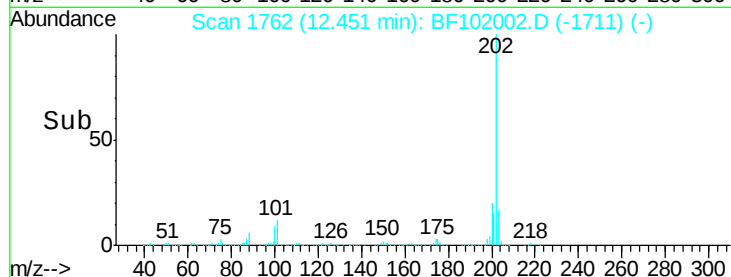
203 17.1 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

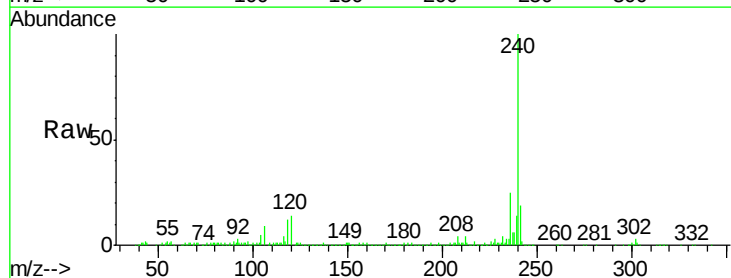
Tgt Ion:240 Resp: 327120

Ion Ratio Lower Upper

240 100

120 13.9 9.5 14.3

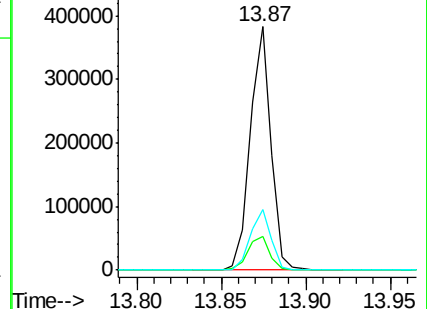
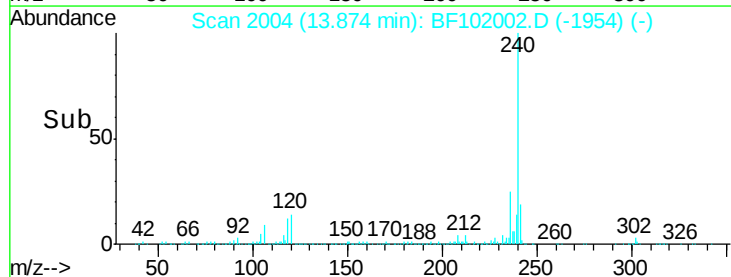
236 25.1 20.7 31.1

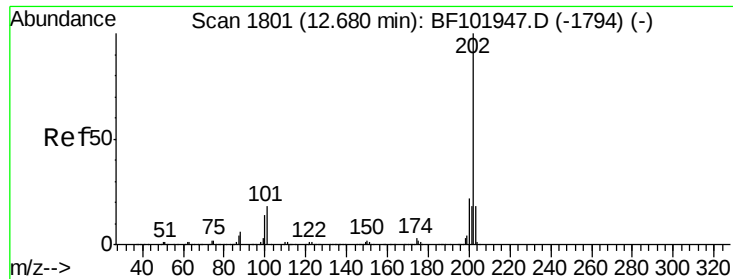


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

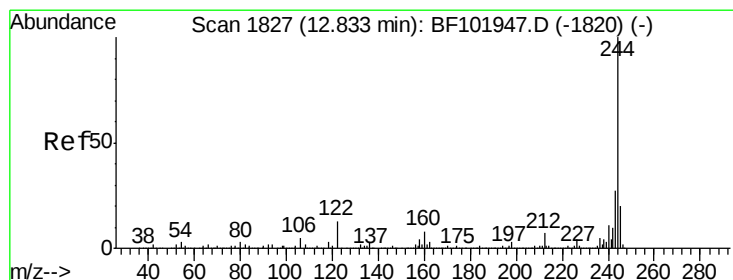
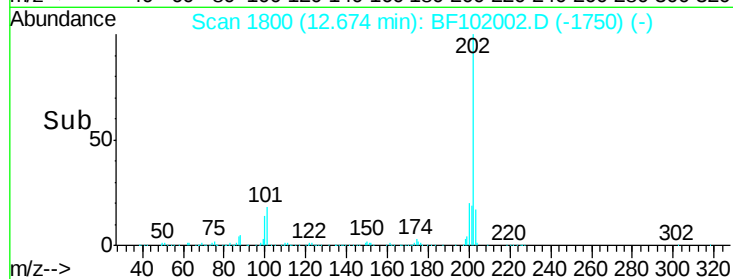
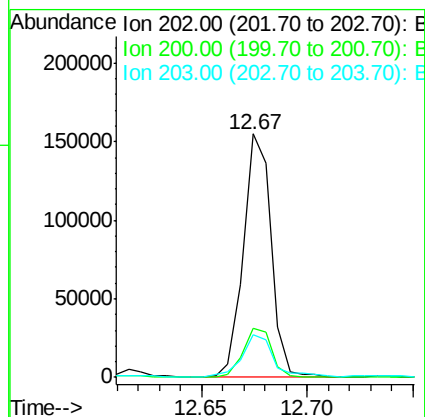
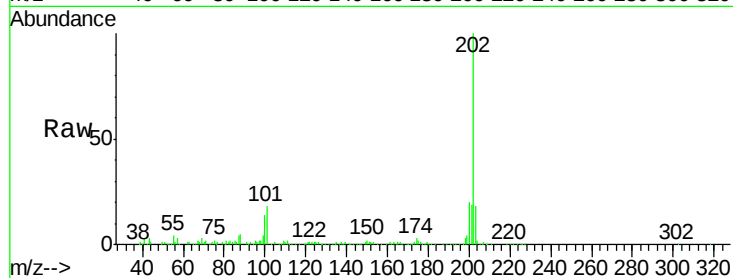




#77
Pvrene
Concen: 4.846 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

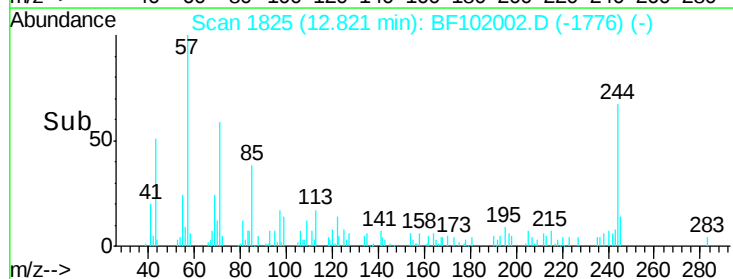
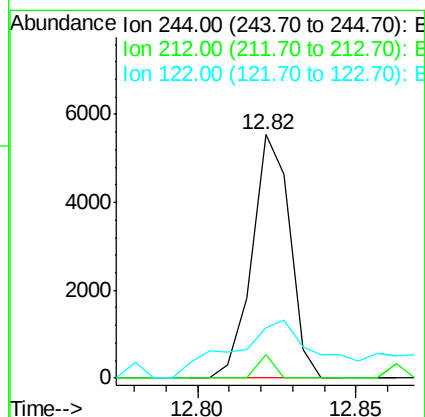
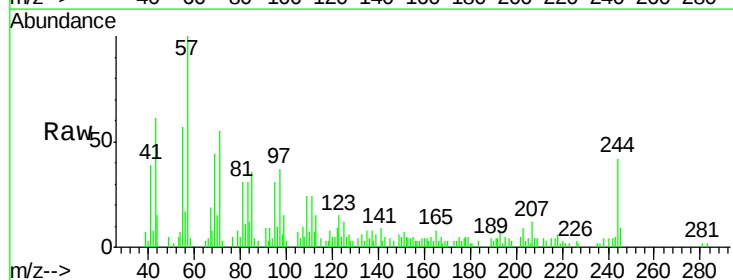
Instrument :
BNA_F
ClientSampleId :
WC-52-01

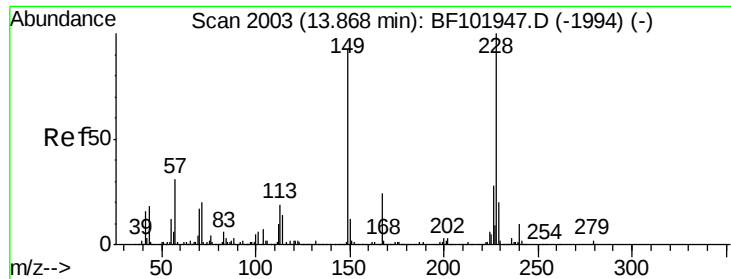
Tot Ion:202 Resp: 140110
Ion Ratio Lower Upper
202 100
200 20.3 17.4 26.2
203 17.6 14.3 21.5



#78
Terphenyl-d14
Concen: 0.290 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Tgt Ion:244 Resp: 4575
Ion Ratio Lower Upper
244 100
212 9.5 5.4 8.0#
122 20.5 11.0 16.4#





#80

Benzo(a)anthracene

Concen: 2.213 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.03 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

Instrument :

BNA_F

ClientSampleId :

WC-52-01

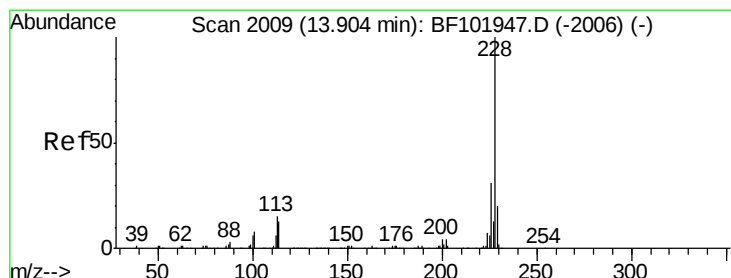
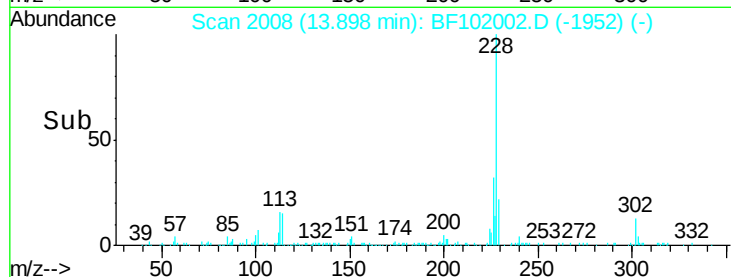
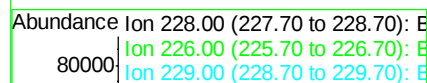
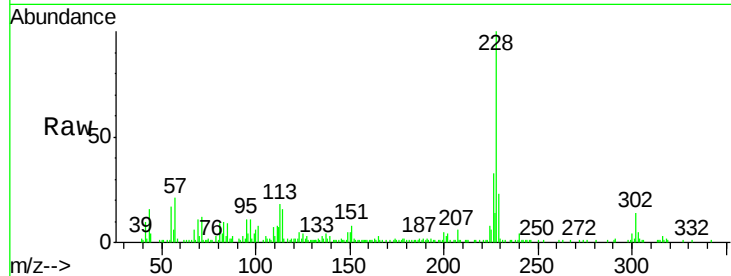
Tot Ion:228 Resp: 46178

Ion Ratio Lower Upper

228 100

226 32.5 22.6 33.8

229 23.0 15.8 23.6



#82

Chrysene

Concen: 2.122 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

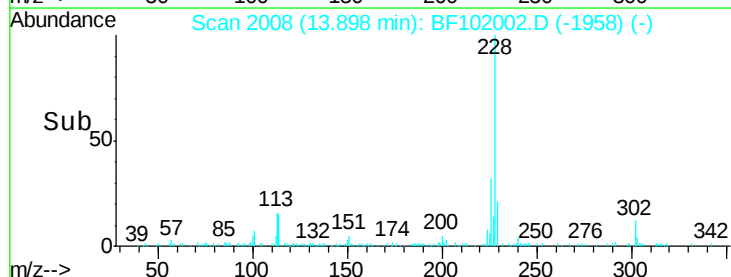
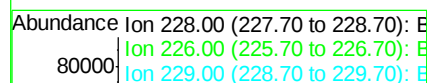
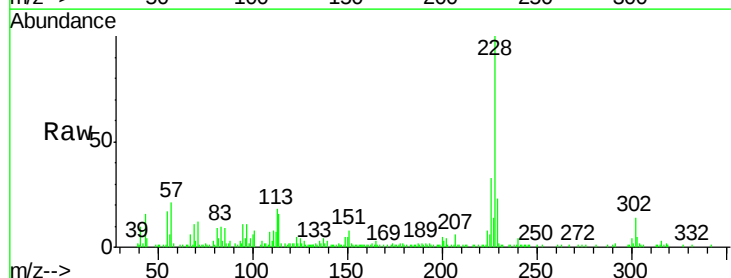
Tgt Ion:228 Resp: 46178

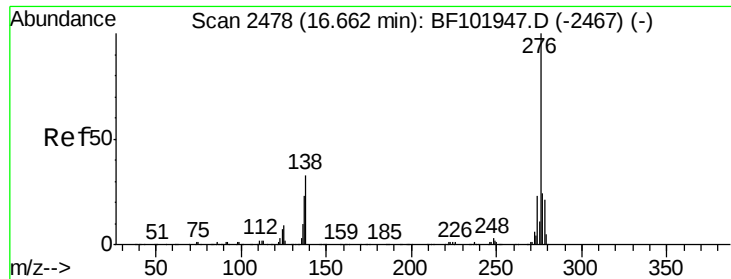
Ion Ratio Lower Upper

228 100

226 32.5 25.0 37.6

229 23.0 16.2 24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.108 ng

RT: 16.66 min Scan# 2477

Delta R.T. -0.01 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

Instrument :

BNA_F

ClientSampleId :

WC-52-01

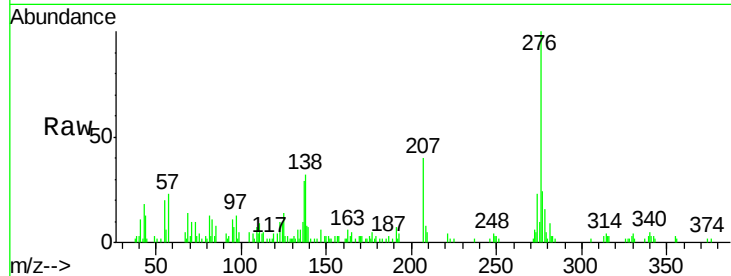
Tot Ion:276 Resp: 33386

Ion Ratio Lower Upper

276 100

138 36.2 25.0 37.6

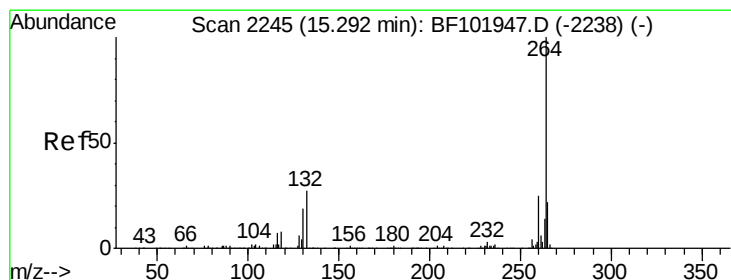
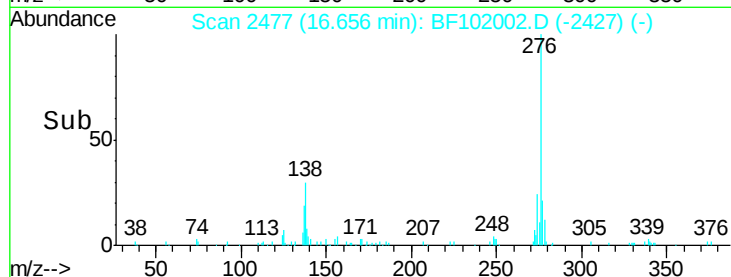
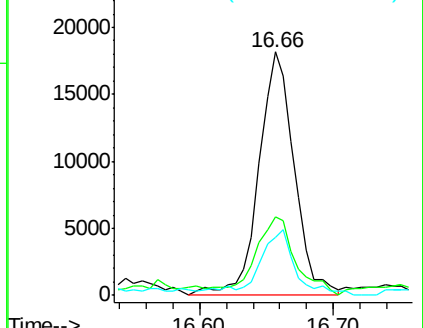
277 28.1 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.29 min Scan# 2245

Delta R.T. -0.00 min

Lab File: BF102002.D

Acq: 11 Jan 2018 1:43

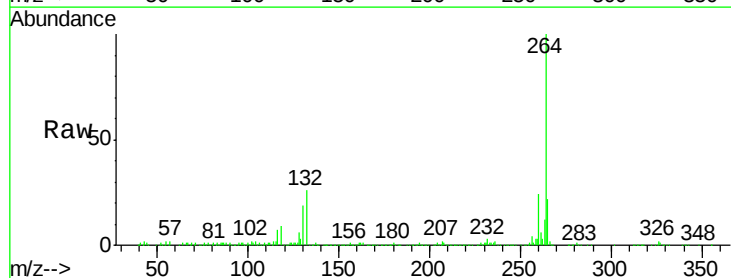
Tgt Ion:264 Resp: 378162

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

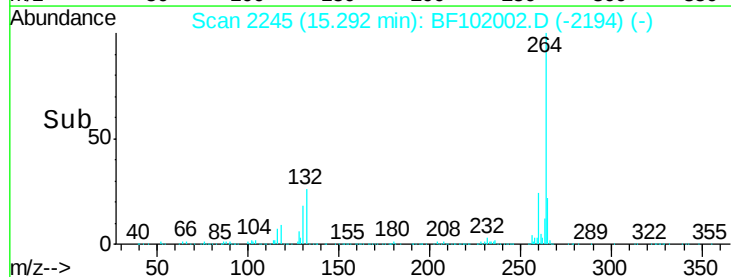
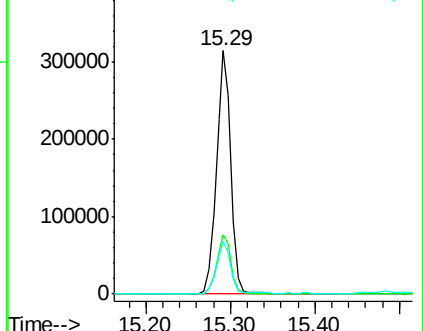
265 21.9 17.5 26.3

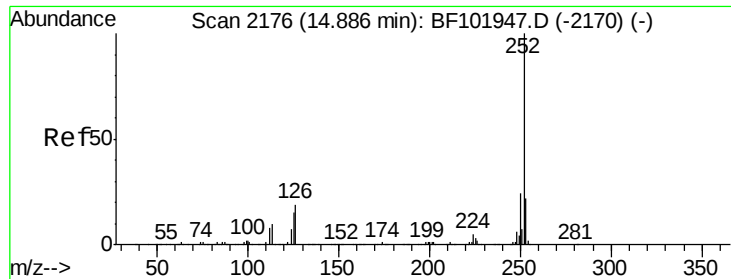


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

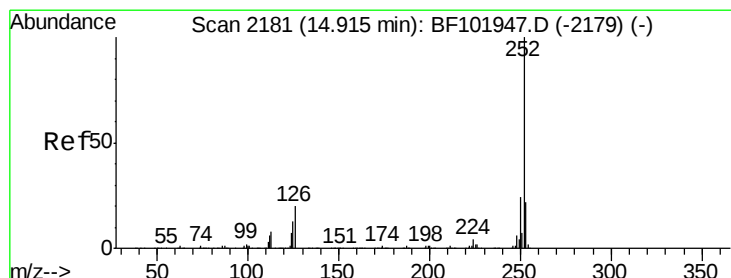
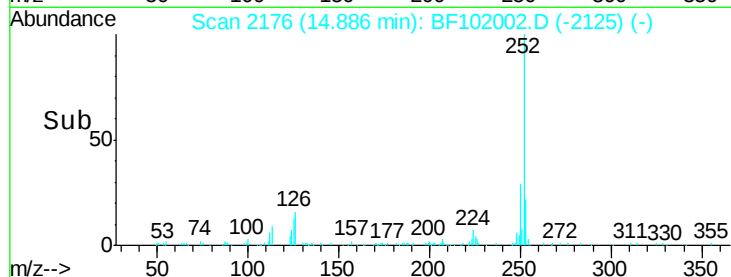
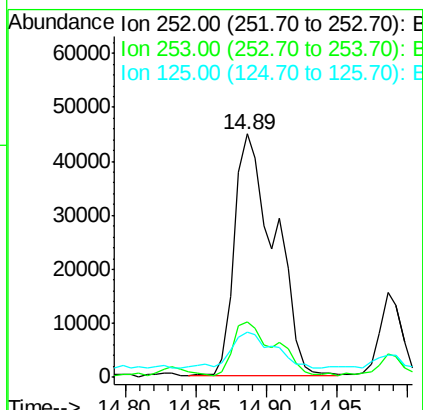
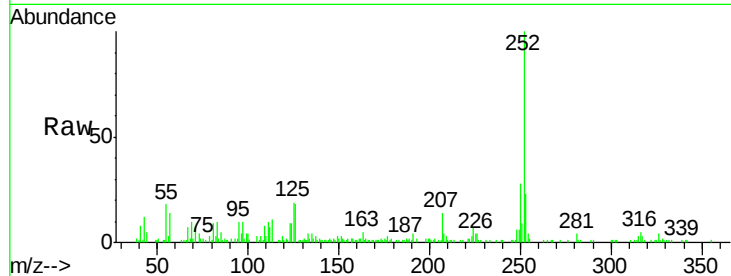




#87
Benzo(b)fluoranthene
Concen: 3.598 ng
RT: 14.89 min Scan# 2176
Delta R.T. 0.00 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

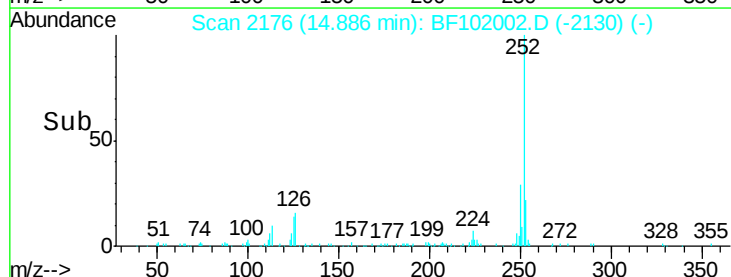
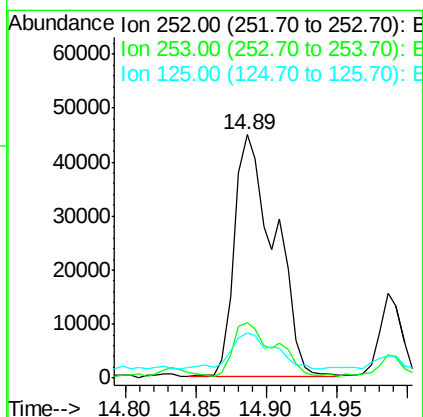
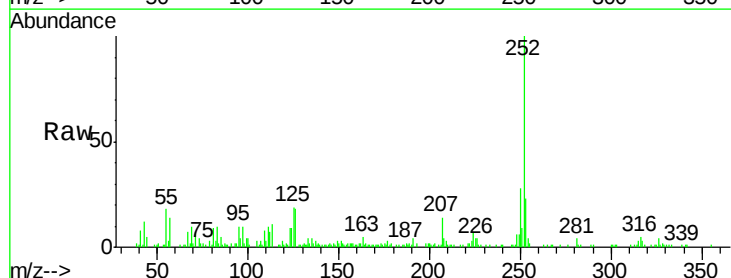
Instrument :
BNA_F
ClientSampleId :
WC-52-01

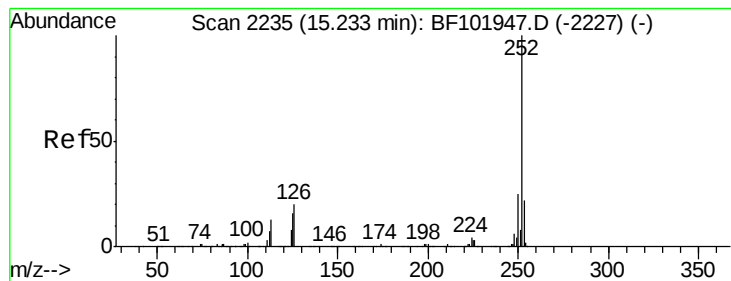
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	18.7	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 3.730 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.03 min
Lab File: BF102002.D
Acq: 11 Jan 2018 1:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	18.7	10.2	15.2





#89
 Benzo(a)pyrene
 Concen: 2.602 ng
 RT: 15.23 min Scan# 2234
 Delta R.T. -0.01 min
 Lab File: BF102002.D
 Acq: 11 Jan 2018 1:43

Instrument :
 BNA_F
 ClientSampleId :
 WC-52-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	17.9	9.8	14.6

