

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102947.D
 Acq On : 13 Feb 2018 4:06
 Operator : SJ/JU
 Sample : J1519-02 20X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 13 04:50:34 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	156262	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	646525	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	260239	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	373230	20.00	ng	0.00
75) Chrysene-d12	14.05	240	303901	20.00	ng	0.00
86) Perylene-d12	15.53	264	268074	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	54899	5.34	ng	0.00
7) Phenol-d6	6.50	99	62340	5.03	ng	0.00
23) Nitrobenzene-d5	7.44	82	38766	4.16	ng	-0.01
41) 2,4,6-Tribromophenol	10.71	330	6558	3.13	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	53027	3.38	ng	0.00
78) Terphenyl-d14	12.99	244	33975	2.65	ng	0.00

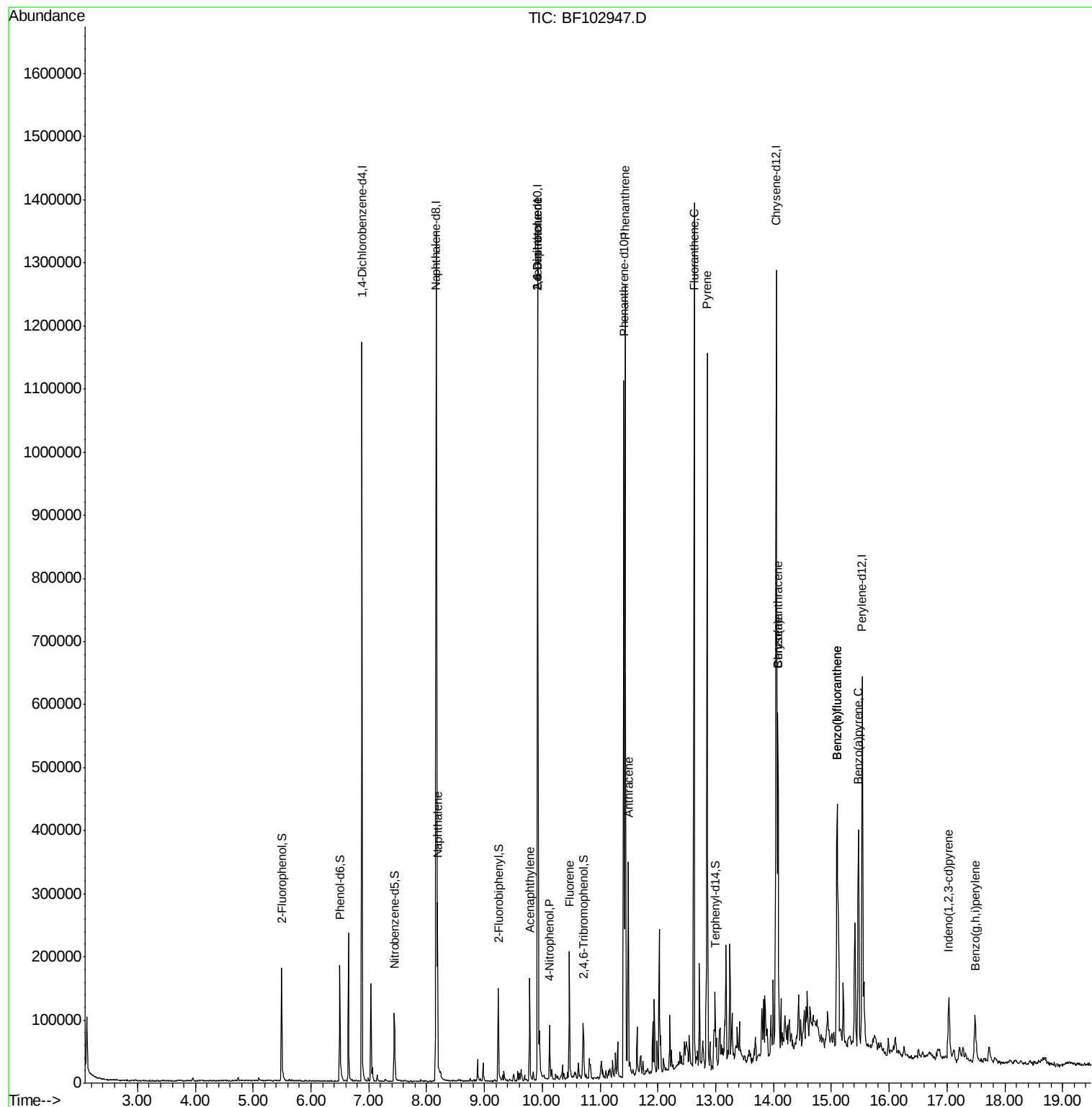
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
24) Nitrobenzene	7.29	77	418	Below Cal		# 38
31) Naphthalene	8.19	128	97069	3.07	ng	98
48) Acenaphthylene	9.78	152	71575	2.67	ng	98
50) 2,6-Dinitrotoluene	9.92	165	33042	8.56	ng	# 26
55) 4-Nitrophenol	10.13	139	13443	7.29	ng	# 10
56) 2,4-Dinitrotoluene	9.92	165	33042	9.05	ng	# 24
57) Fluorene	10.47	166	58266	3.55	ng	99
70) Phenanthrene	11.43	178	394836	18.99	ng	99
71) Anthracene	11.49	178	131182	6.20	ng	97
74) Fluoranthene	12.63	202	550368	26.32	ng	98
77) Pyrene	12.86	202	438502	18.40	ng	99
80) Benzo(a)anthracene	14.07	228	184406	9.65	ng	98
82) Chrysene	14.07	228	184406	9.57	ng	97
85) Indeno(1,2,3-cd)pyrene	17.03	276	67291	4.21	ng	94
87) Benzo(b)fluoranthene	15.10	252	292941	16.85	ng	# 94
88) Benzo(k)fluoranthene	15.10	252	292941	17.64	ng	97
89) Benzo(a)pyrene	15.47	252	153859	9.83	ng	# 95
91) Benzo(g,h,i)perylene	17.49	276	58289	4.69	ng	97

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

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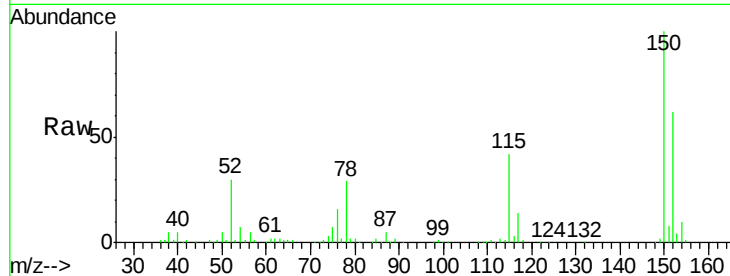


#1

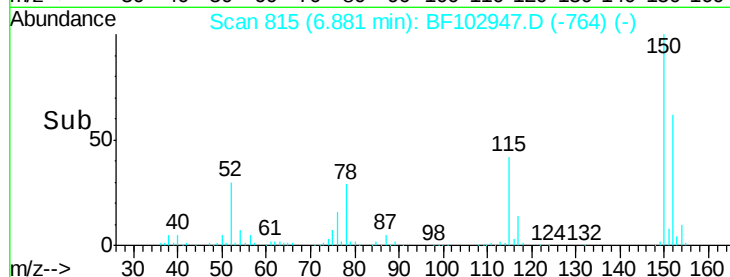
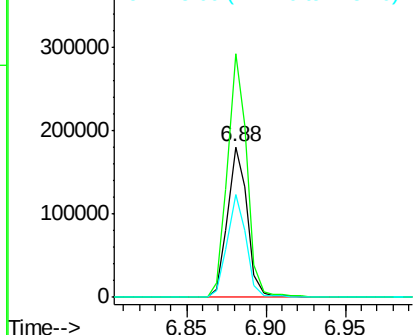
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.6	124.6	186.8
115	68.1	50.1	75.1



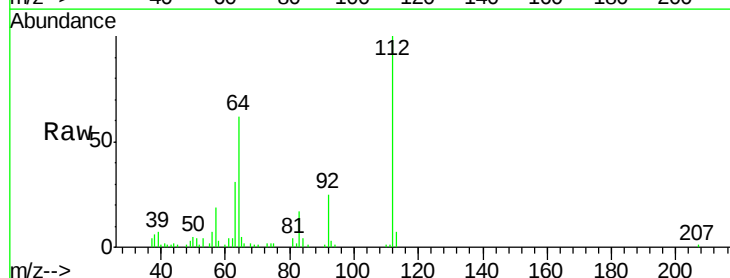
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



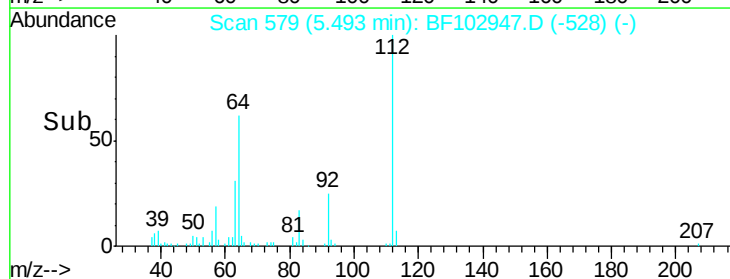
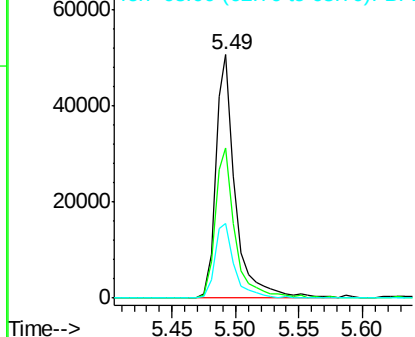
#5

2-Fluorophenol
Concen: 5.34 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.00 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	47.9	71.9
63	30.8	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: 5.03 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

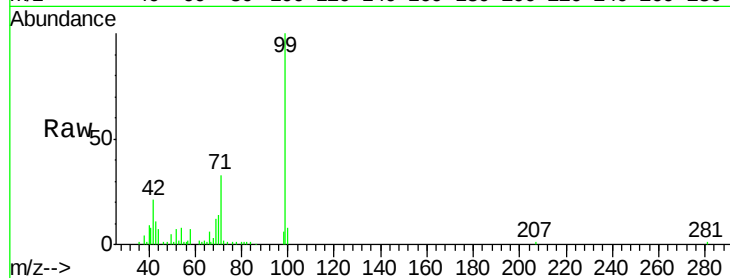
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 62340

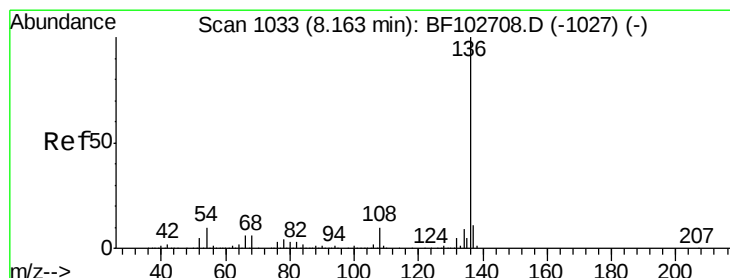
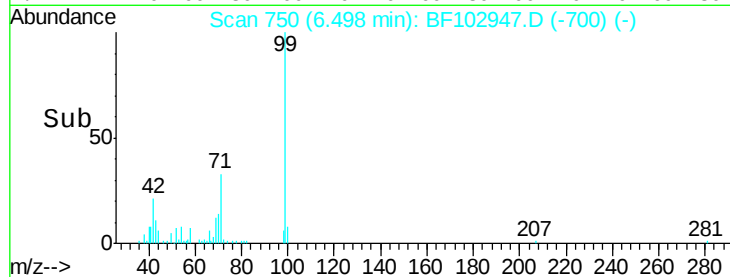
Ion	Ratio	Lower	Upper
99	100		
42	20.8	14.5	21.7
71	32.6	25.4	38.0



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: 20.00 ng

RT: 8.16 min Scan# 1033

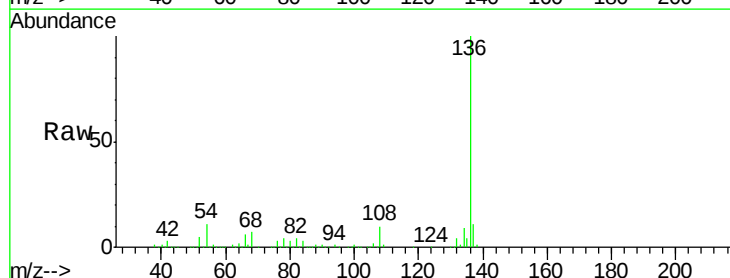
Delta R.T. -0.01 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

Tgt Ion: 136 Resp: 646525

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	10.5	6.6	9.8#
68	7.2	5.0	7.4

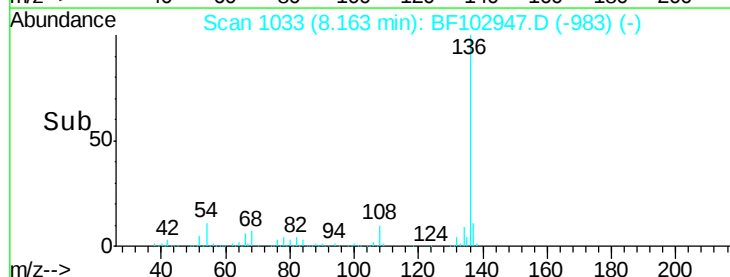


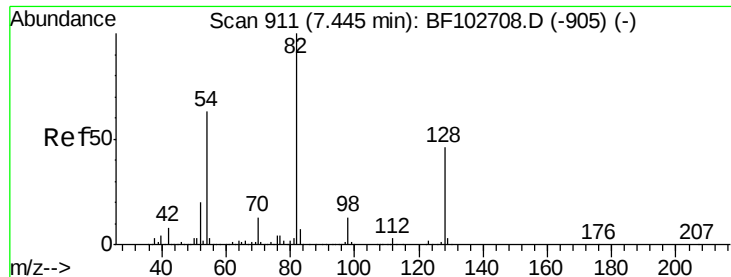
Abundance Ion 136.00 (135.70 to 136.70): E

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

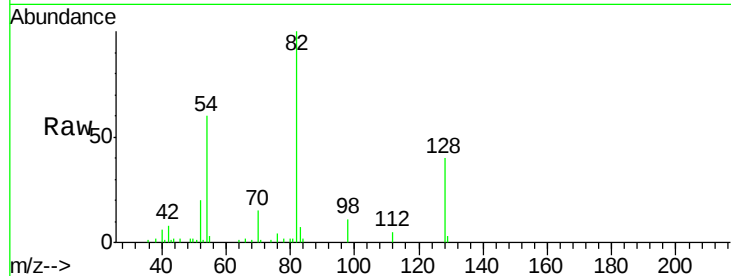




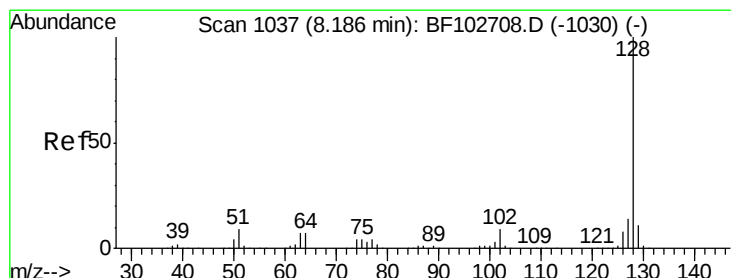
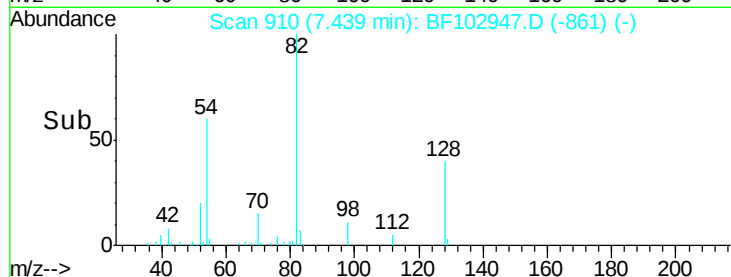
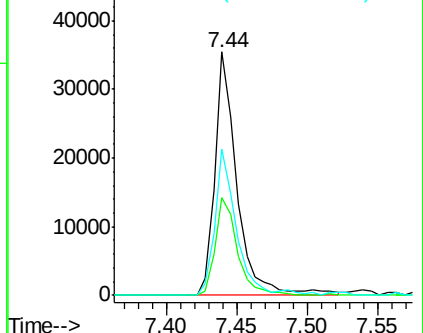
#23
Nitrobenzene-d5
Concen: 4.16 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	38766
Ion Ratio	Lower	Upper	
82	100		
128	40.0	36.1	54.1
54	60.2	41.4	62.2

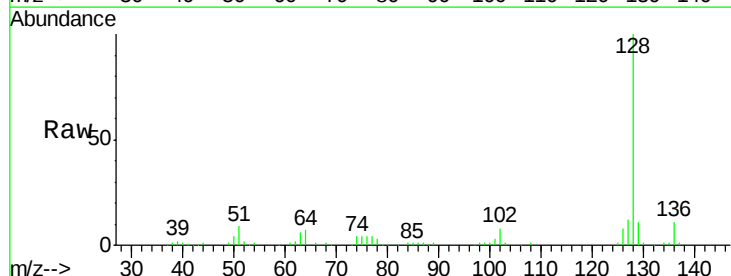


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

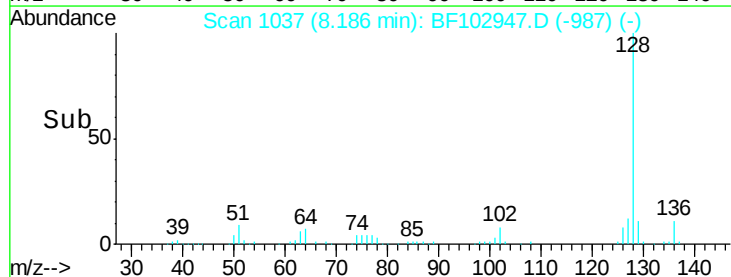
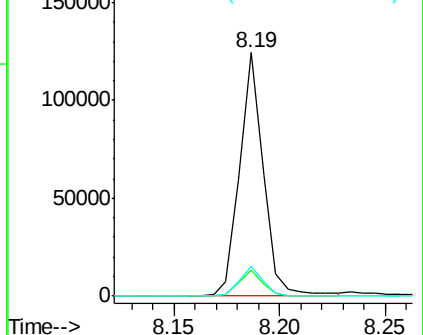


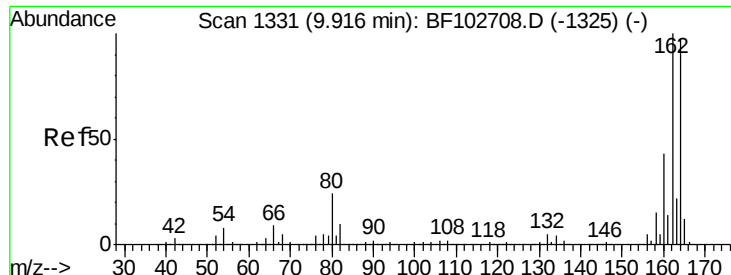
#31
Naphthalene
Concen: 3.07 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion	128	Resp	97069
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	12.1	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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.00 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

Instrument :

BNA_F

ClientSampleId :

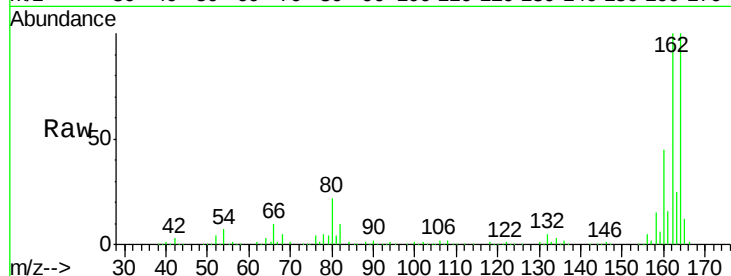
Tot Ion:164 Resp: 260239

Ion Ratio Lower Upper

164 100

162 99.5 86.1 129.1

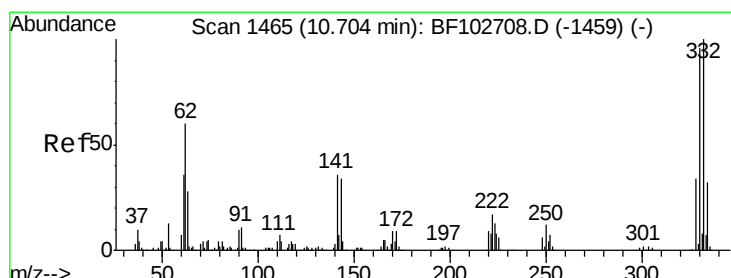
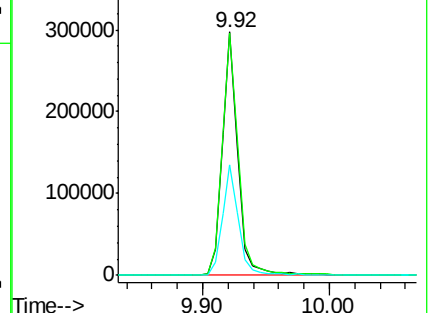
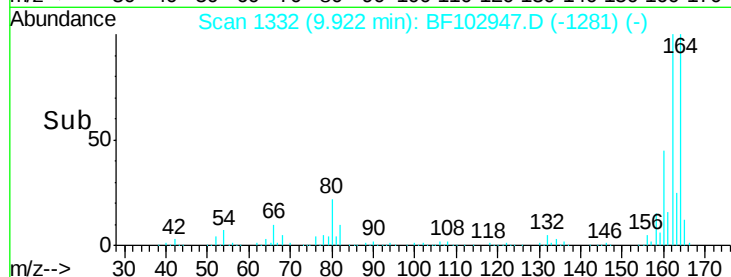
160 45.5 38.3 57.5



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: 3.13 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.00 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

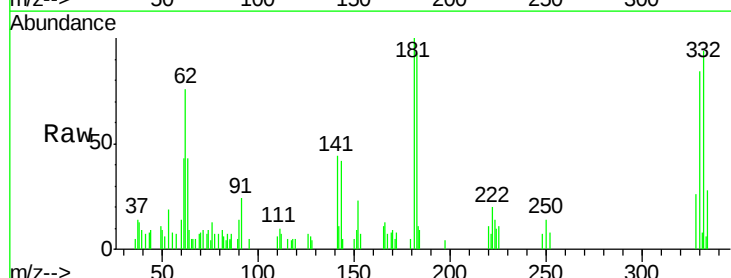
Tgt Ion:330 Resp: 6558

Ion Ratio Lower Upper

330 100

332 112.4 77.0 115.6

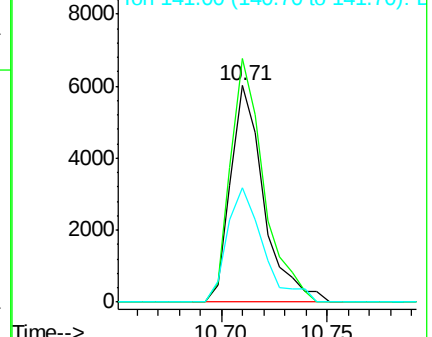
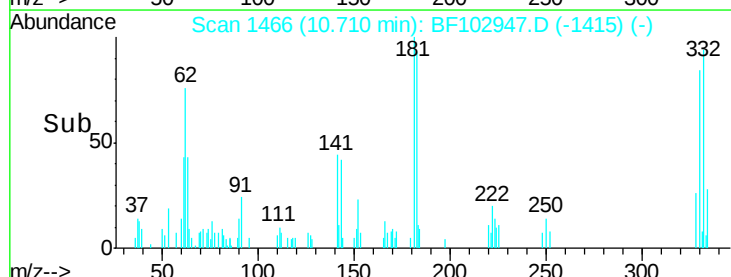
141 57.0 29.9 44.9#

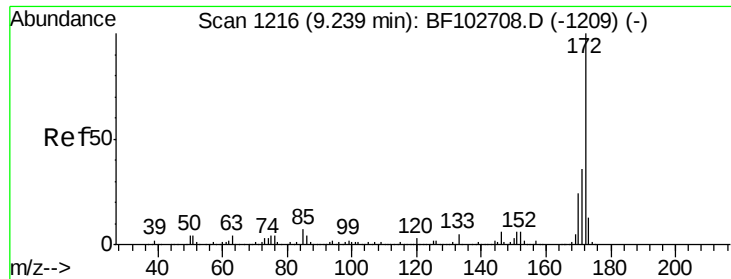


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

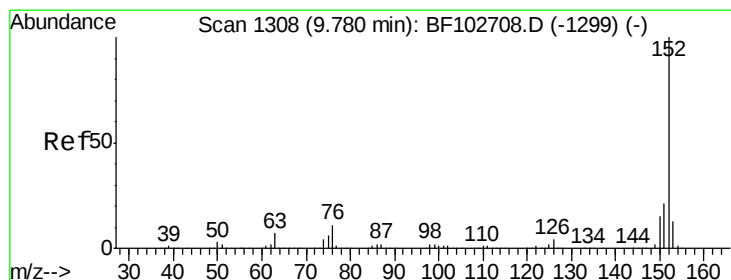
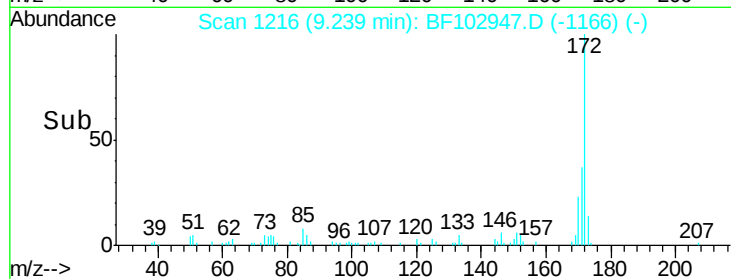
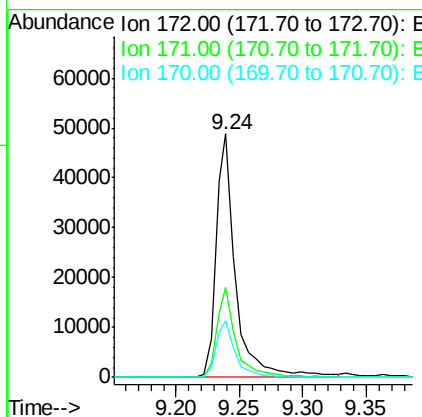
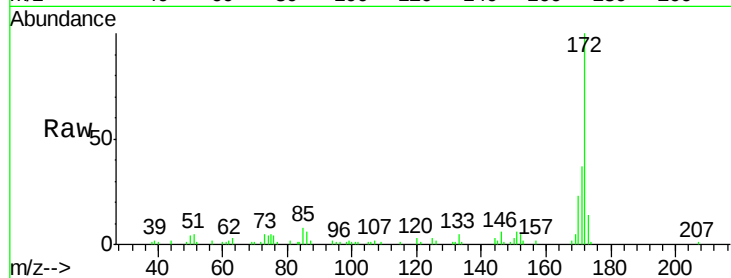




#44
2-Fluorobiphenyl
Concen: 3.38 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

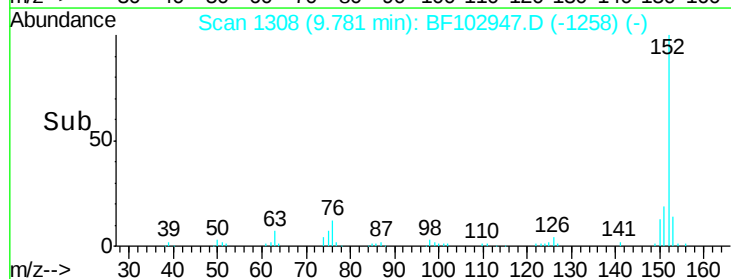
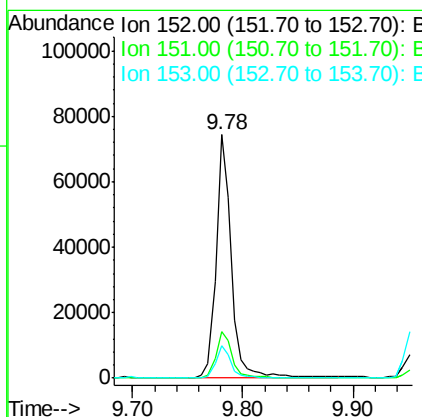
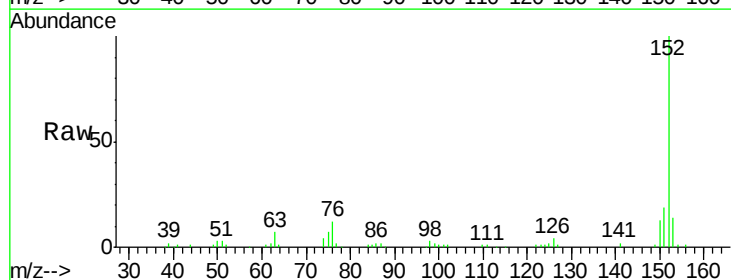
Instrument :
BNA_F
ClientSampleId :

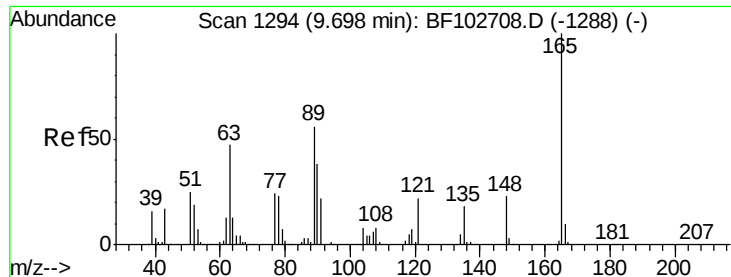
Tot Ion:172 Resp: 53027
Ion Ratio Lower Upper
172 100
171 36.8 29.7 44.5
170 23.5 19.6 29.4



#48
Acenaphthylene
Concen: 2.67 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion:152 Resp: 71575
Ion Ratio Lower Upper
152 100
151 19.0 16.3 24.5
153 13.6 10.7 16.1

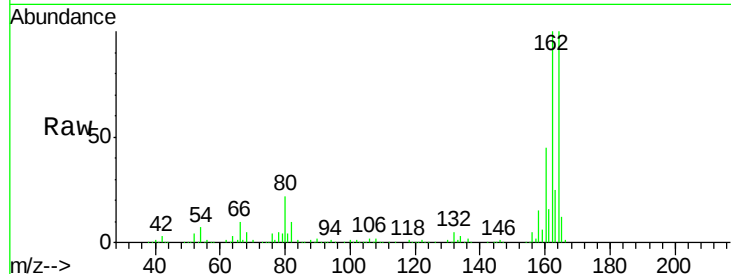




#50
 2,6-Dinitrotoluene
 Concen: 8.56 ng
 RT: 9.92 min Scan# 1332
 Delta R.T. 0.22 min
 Lab File: BF102947.D
 Acq: 13 Feb 2018 4:06

Instrument :
 BNA_F
 ClientSampleId :

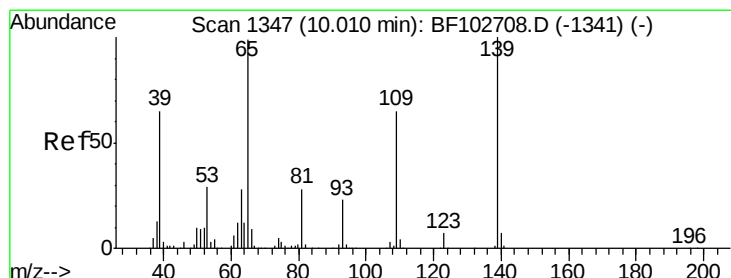
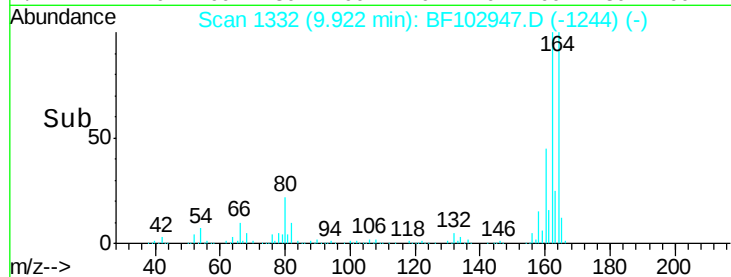
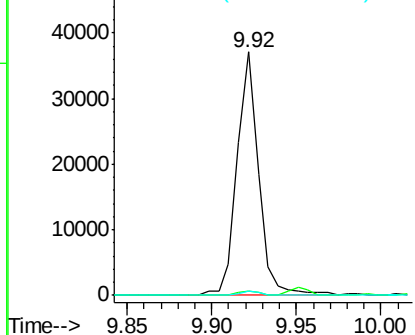
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	44.7	67.1#
89	1.7	44.0	66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

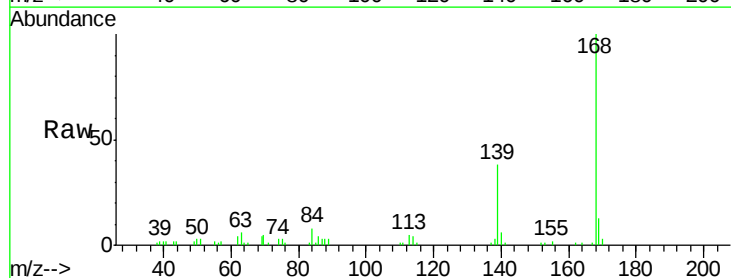
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#55
 4-Nitrophenol
 Concen: 7.29 ng
 RT: 10.13 min Scan# 1367
 Delta R.T. 0.11 min
 Lab File: BF102947.D
 Acq: 13 Feb 2018 4:06

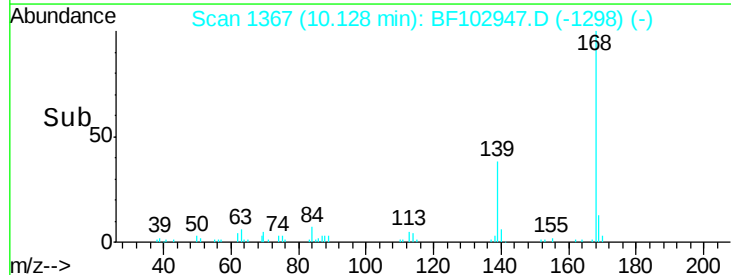
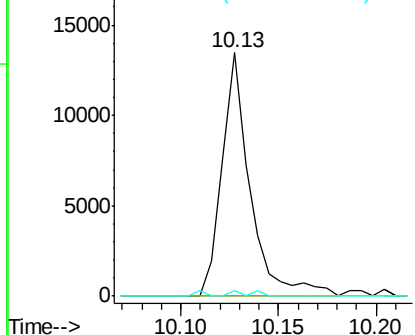
Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.4	88.4#
65	2.4	72.6	112.6#

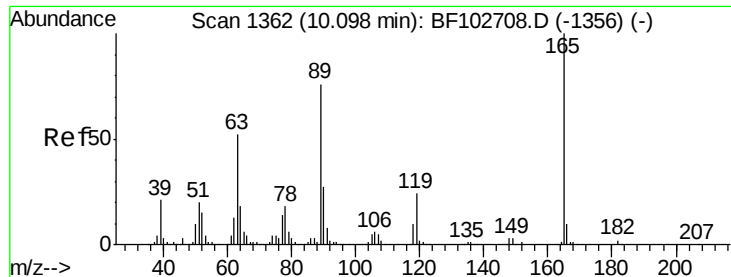


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

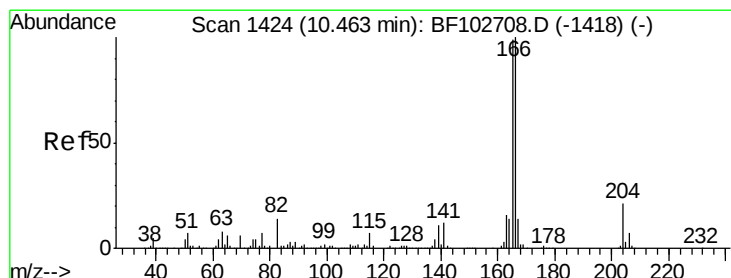
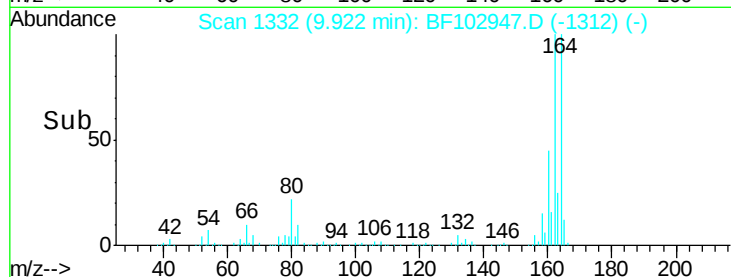
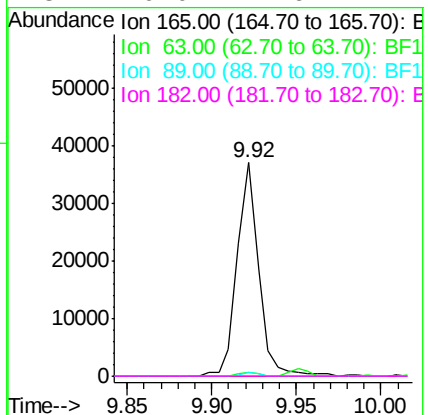
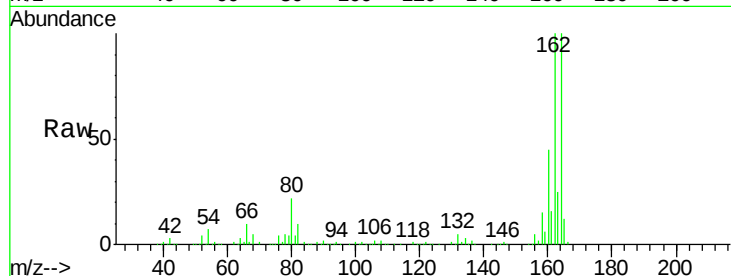




#56
2,4-Dinitrotoluene
Concen: 9.05 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.18 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

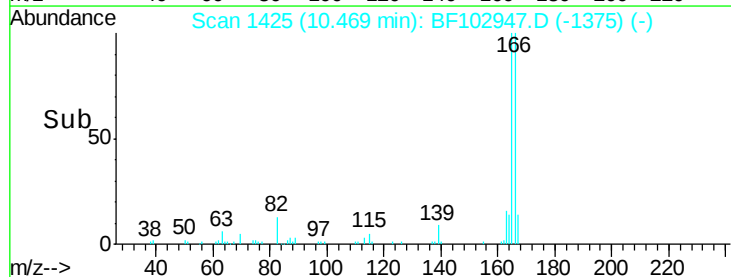
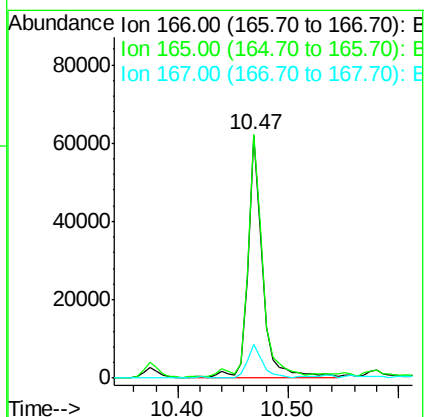
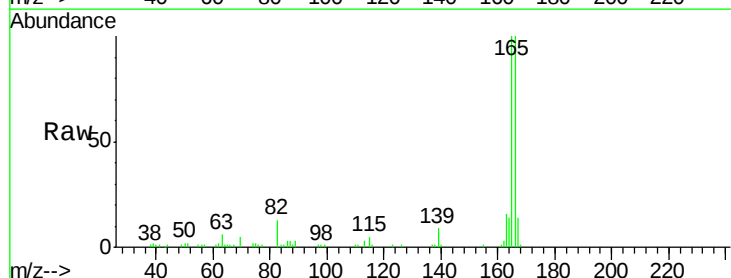
Instrument :
BNA_F
ClientSampleId :

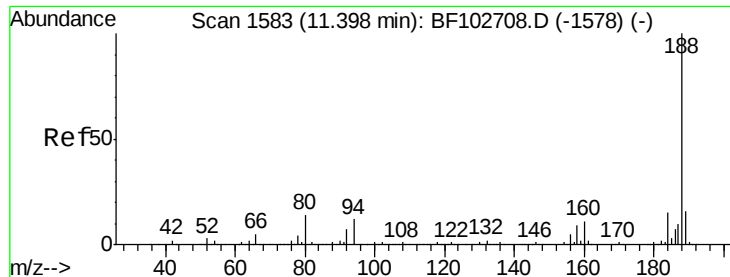
Tot Ion:165 Resp: 33042
Ion Ratio Lower Upper
165 100
63 1.6 36.4 54.6#
89 1.7 57.8 86.6#
182 0.0 1.6 2.4#



#57
Fluorene
Concen: 3.55 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion:166 Resp: 58266
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.8
167 13.9 10.6 16.0

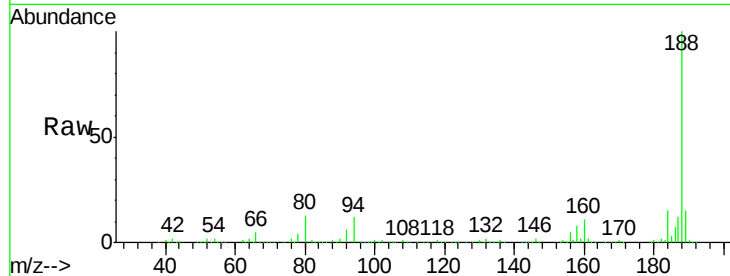




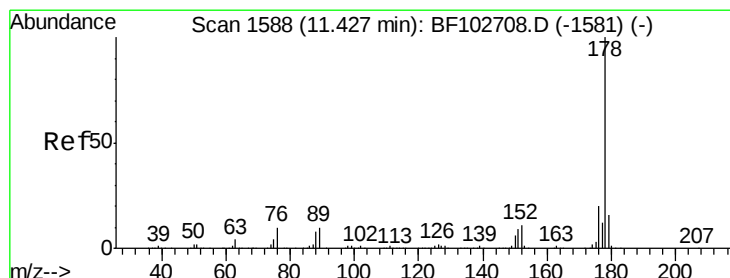
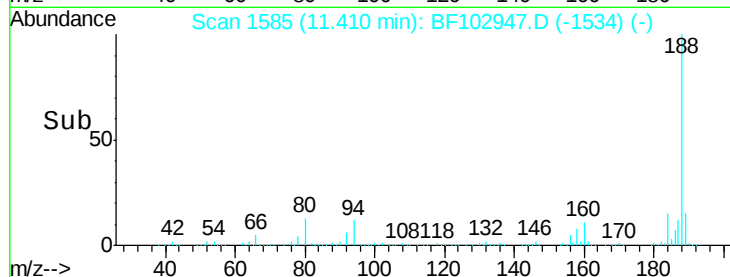
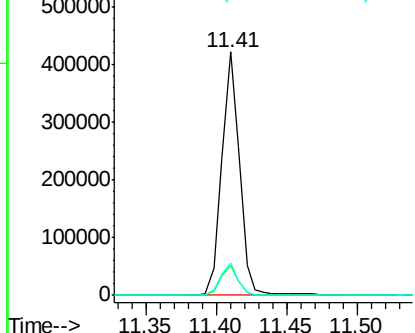
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 373230
Ion Ratio Lower Upper
188 100
94 12.3 8.5 12.7
80 13.2 9.2 13.8

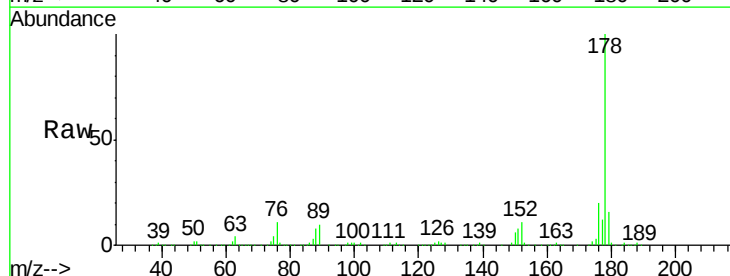


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

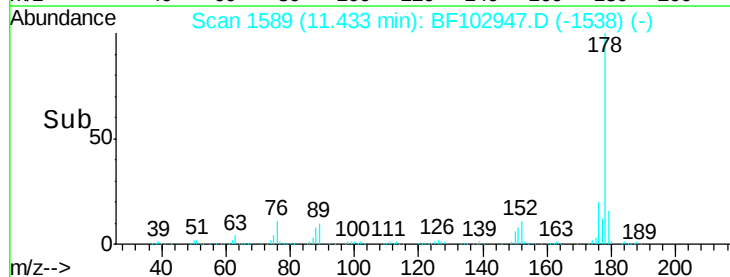
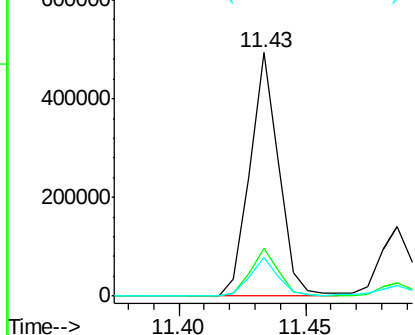


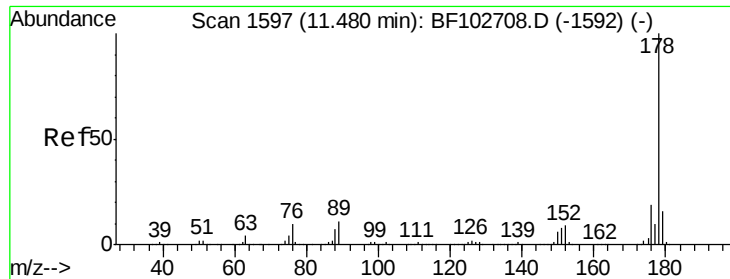
#70
Phenanthrene
Concen: 18.99 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion:178 Resp: 394836
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 15.8 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: 6.20 ng

RT: 11.49 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

Instrument :

BNA_F

ClientSampleId :

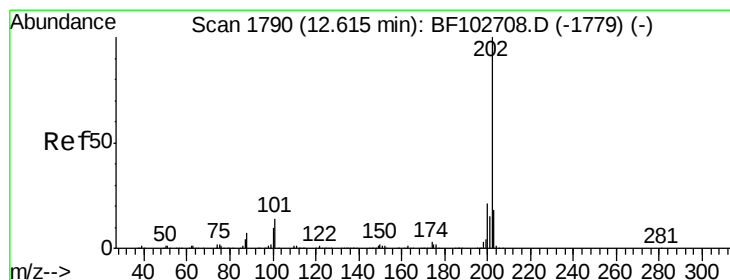
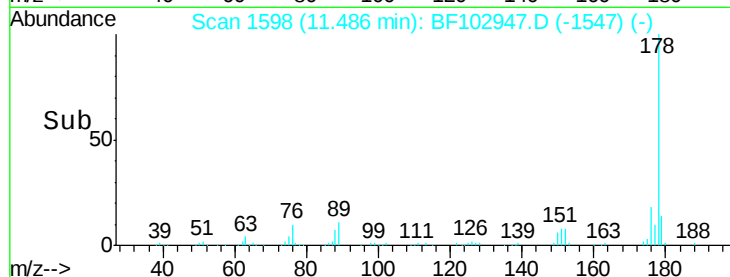
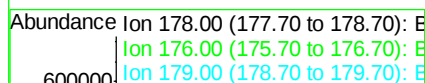
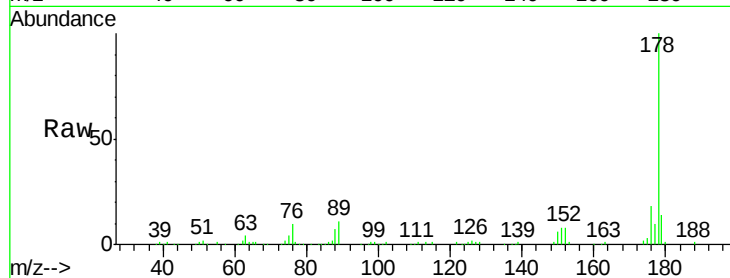
Tot Ion:178 Resp: 131182

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

179 14.4 12.6 19.0



#74

Fluoranthene

Concen: 26.32 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

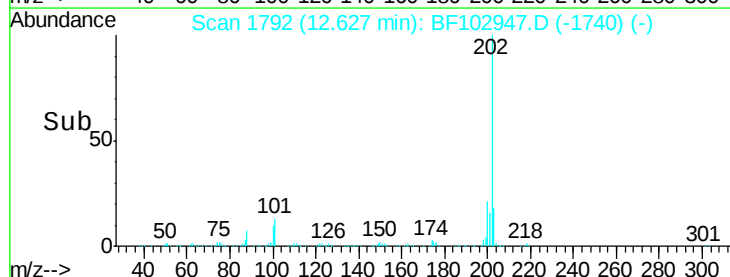
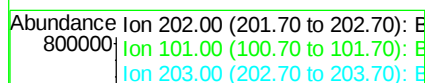
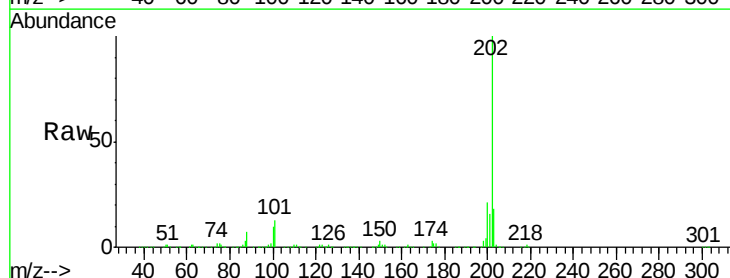
Tgt Ion:202 Resp: 550368

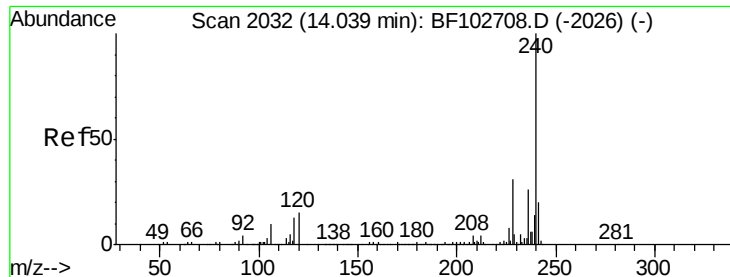
Ion Ratio Lower Upper

202 100

101 13.1 0.0 34.1

203 17.5 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

Instrument :

BNA_F

ClientSampled :

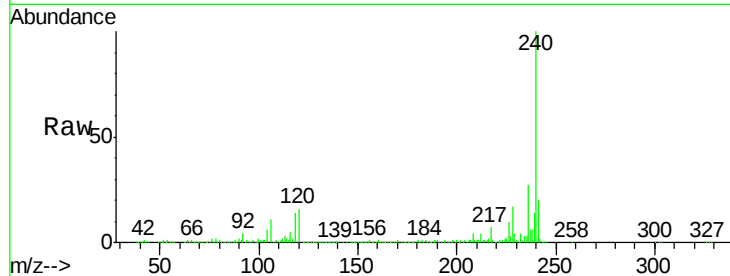
Tot Ion:240 Resp: 303901

Ion Ratio Lower Upper

240 100

120 15.6 9.5 14.3#

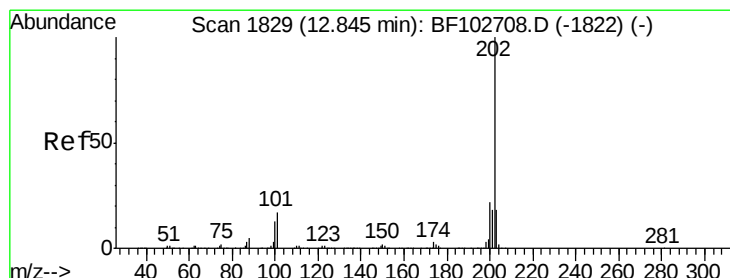
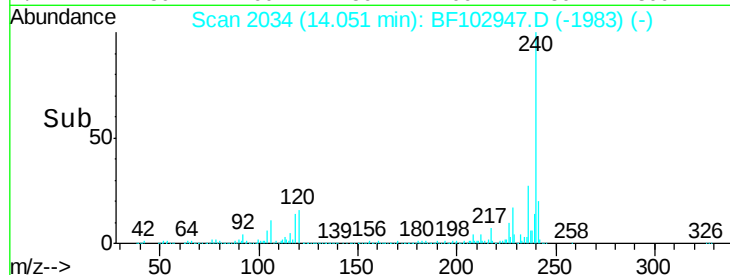
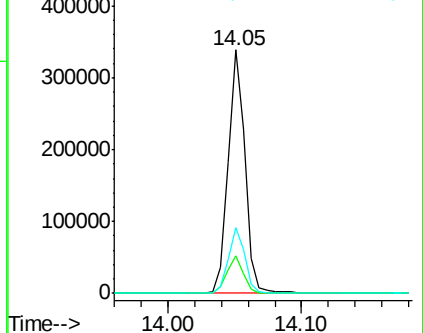
236 27.1 20.7 31.1



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

Pyrene

Concen: 18.40 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.01 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

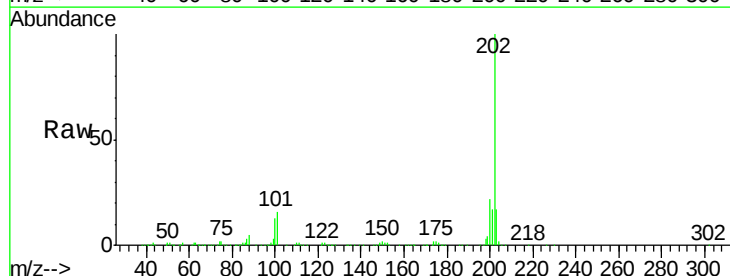
Tgt Ion:202 Resp: 438502

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

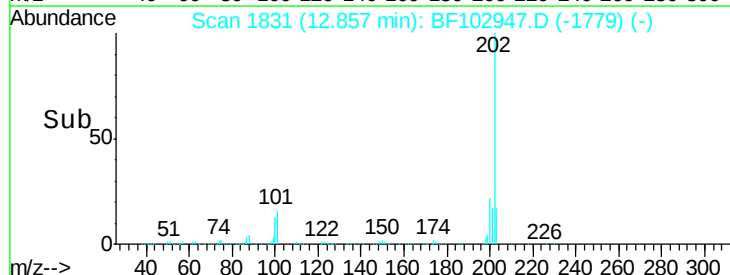
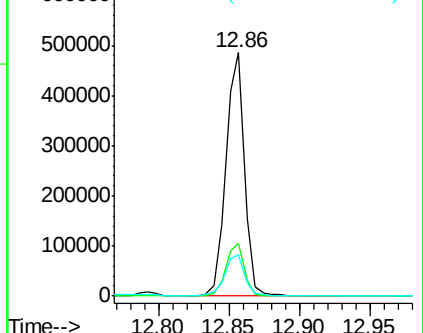
203 17.1 14.3 21.5

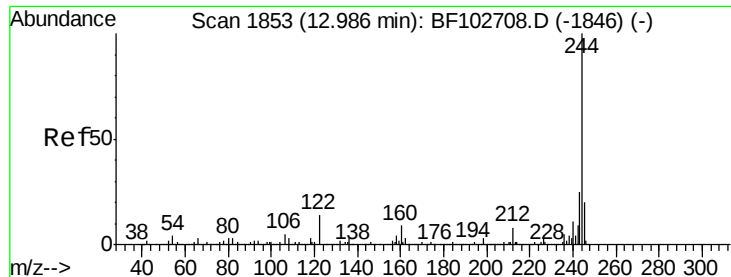


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 2.65 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

Instrument :

BNA_F

ClientSampled :

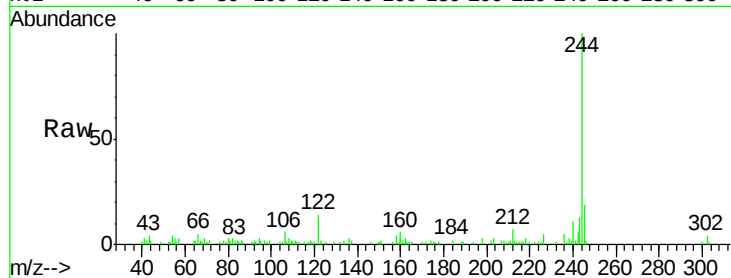
Tot Ion:244 Resp: 33975

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

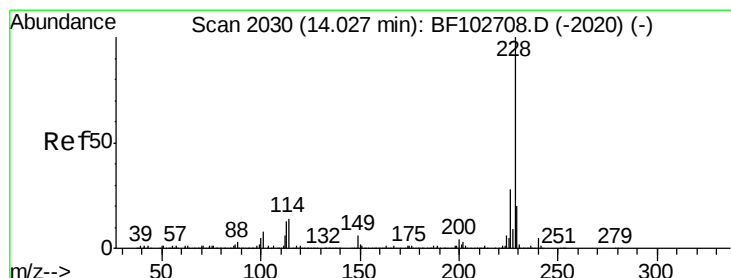
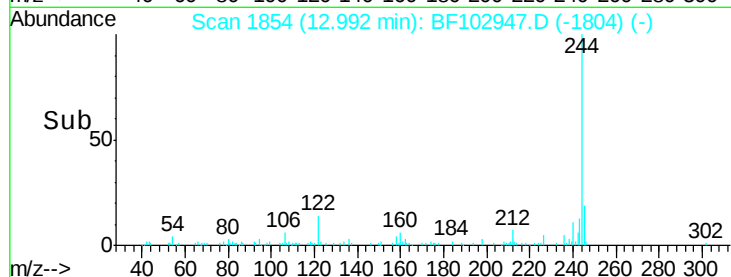
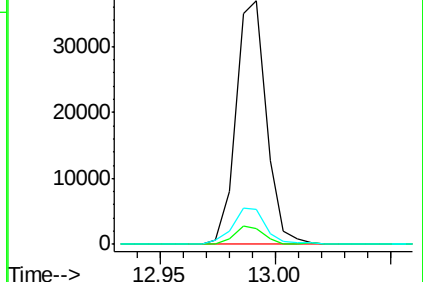
122 14.4 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 9.65 ng

RT: 14.07 min Scan# 2038

Delta R.T. 0.04 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

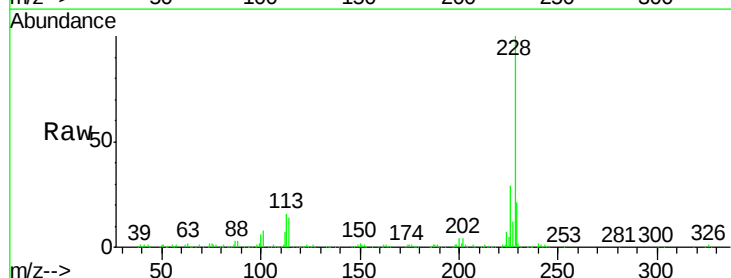
Tgt Ion:228 Resp: 184406

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

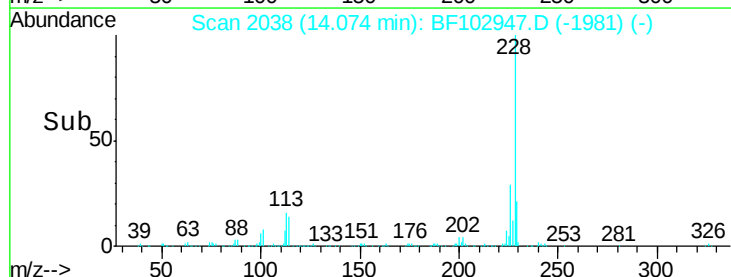
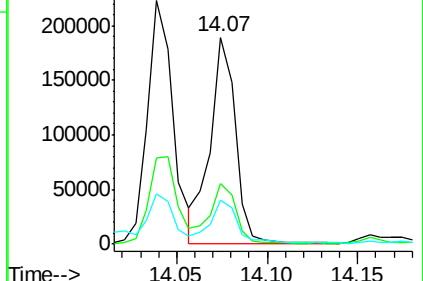
229 21.1 15.8 23.6

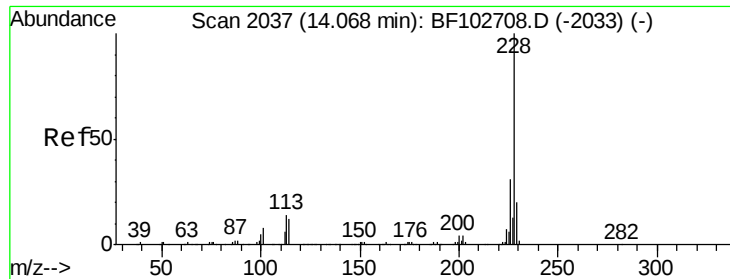


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.57 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

Instrument :

BNA_F

ClientSampleId :

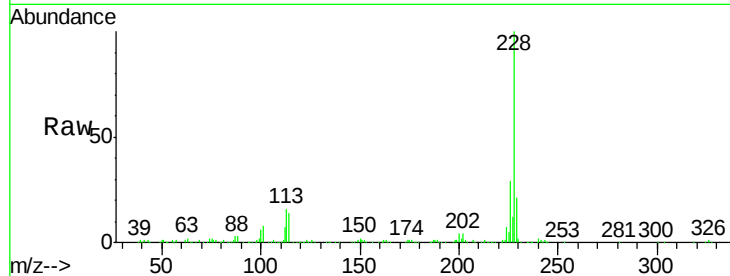
Tot Ion:228 Resp: 184406

Ion Ratio Lower Upper

228 100

226 29.2 25.0 37.6

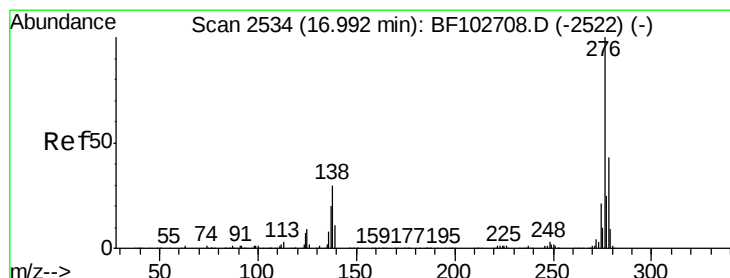
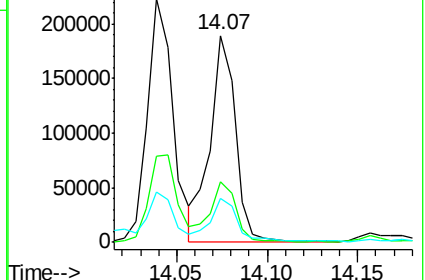
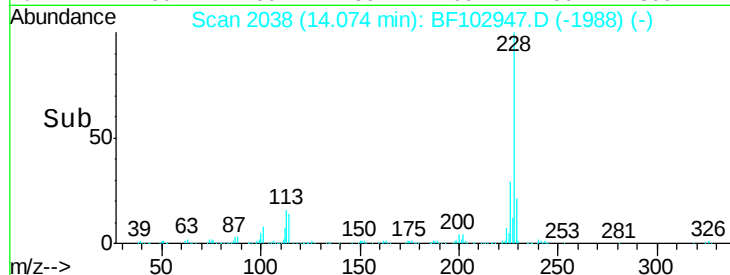
229 21.1 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.21 ng

RT: 17.03 min Scan# 2541

Delta R.T. 0.02 min

Lab File: BF102947.D

Acq: 13 Feb 2018 4:06

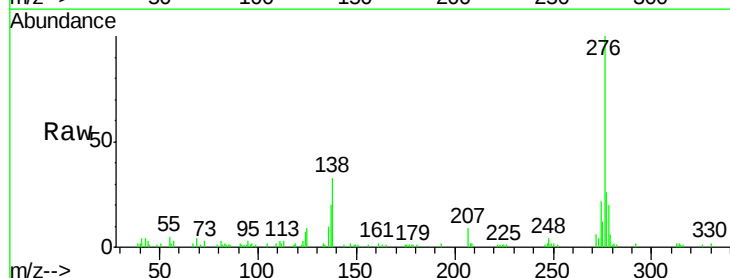
Tgt Ion:276 Resp: 67291

Ion Ratio Lower Upper

276 100

138 26.7 25.0 37.6

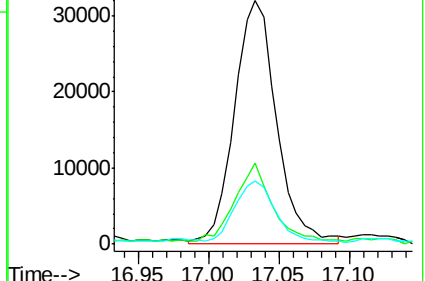
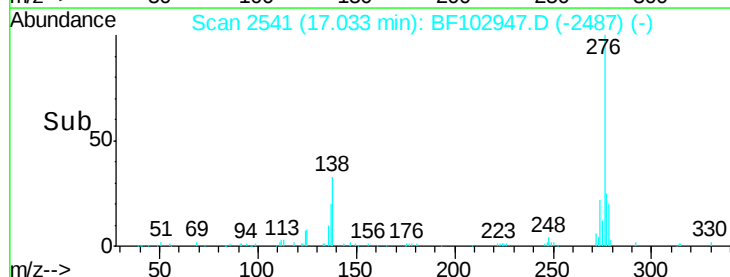
277 23.5 20.1 30.1

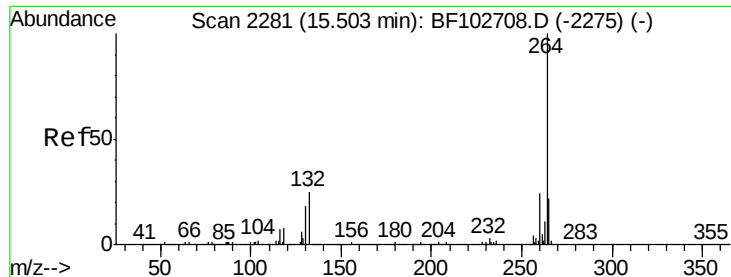


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

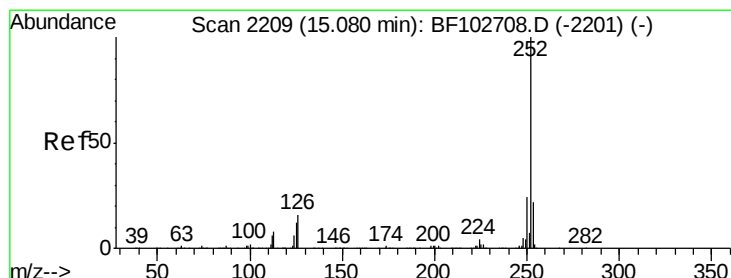
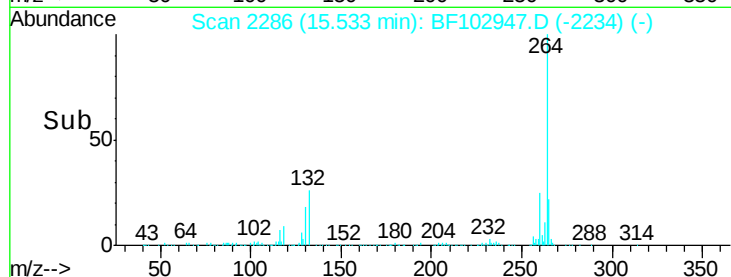
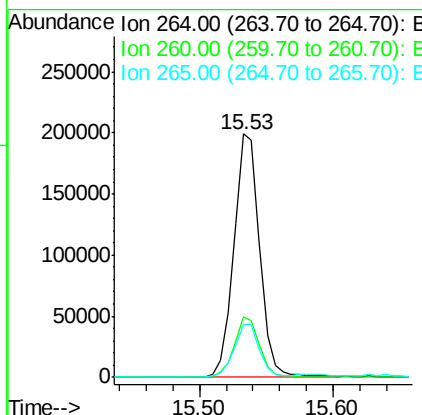
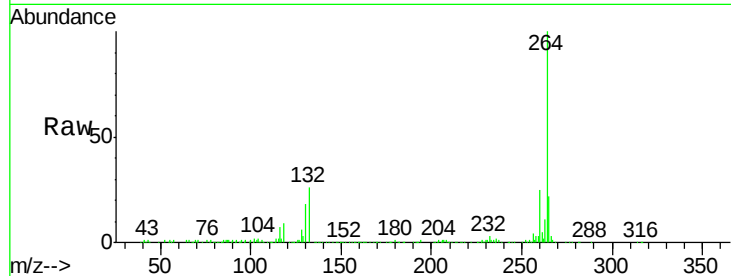




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.53 min Scan# 2286
Delta R.T. 0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

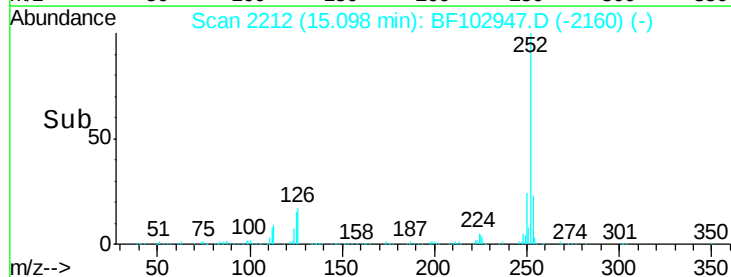
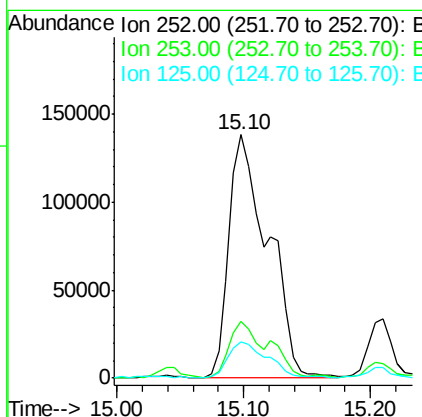
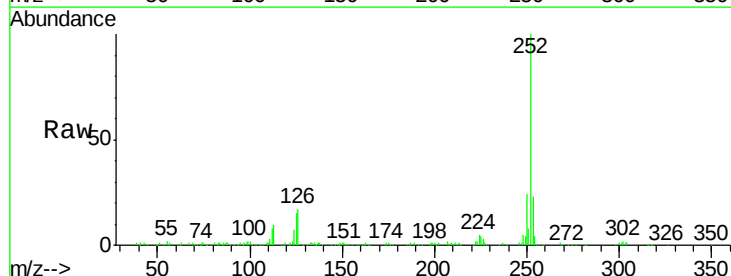
Instrument :
BNA_F
ClientSampleId :

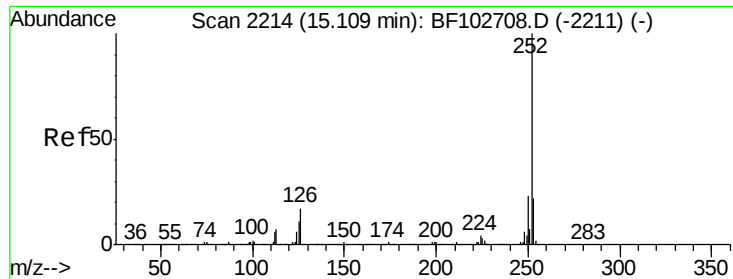
Tot Ion:264 Resp: 268074
Ion Ratio Lower Upper
264 100
260 25.0 19.2 28.8
265 21.9 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 16.85 ng
RT: 15.10 min Scan# 2212
Delta R.T. 0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion:252 Resp: 292941
Ion Ratio Lower Upper
252 100
253 23.3 17.0 25.6
125 15.0 9.0 13.6#

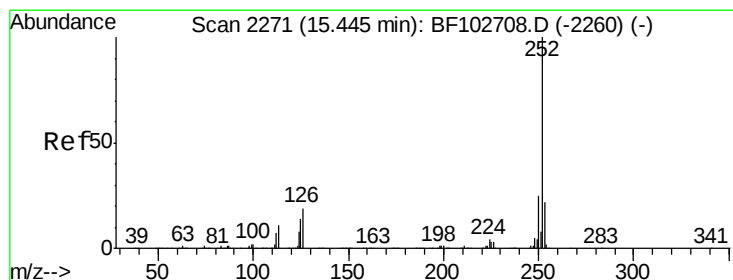
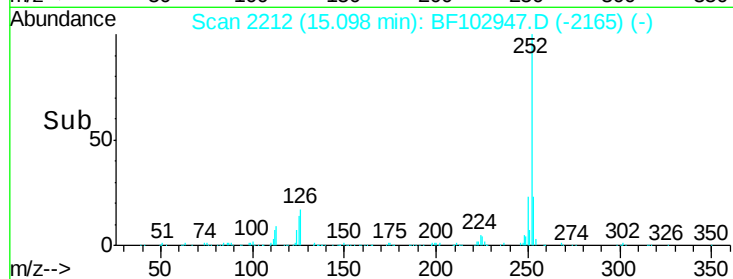
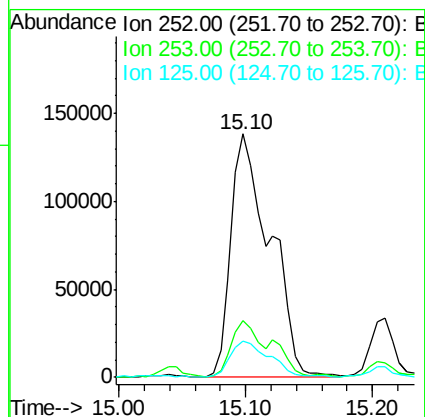
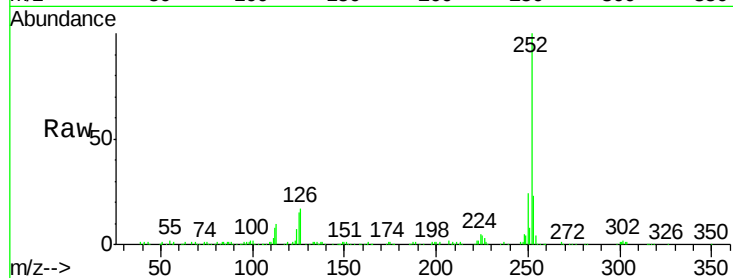




#88
Benzo(k)fluoranthene
Concen: 17.64 ng
RT: 15.10 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

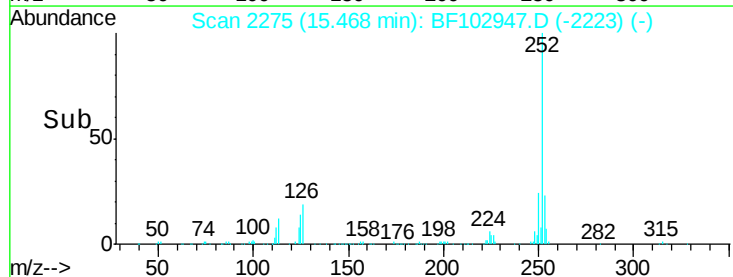
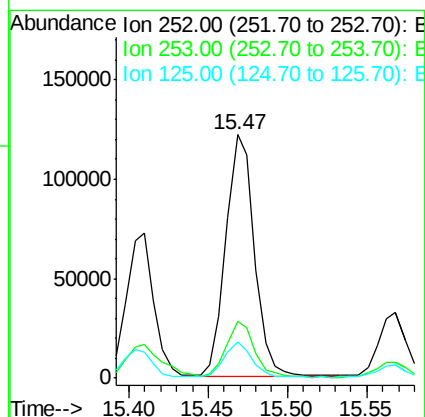
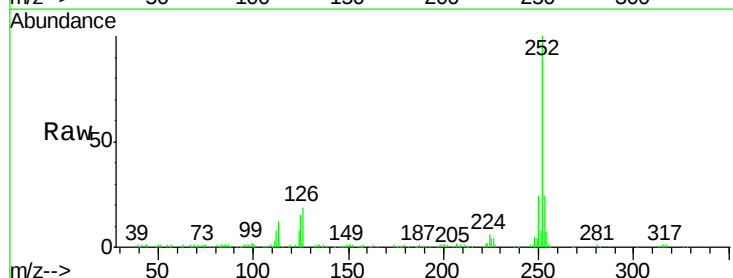
Instrument :
BNA_F
ClientSampleId :

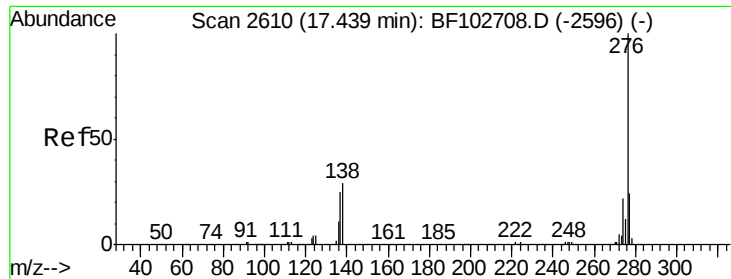
Tot Ion:252 Resp: 292941
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 15.0 10.2 15.2



#89
Benzo(a)pyrene
Concen: 9.83 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF102947.D
Acq: 13 Feb 2018 4:06

Tgt Ion:252 Resp: 153859
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 14.7 9.8 14.6#

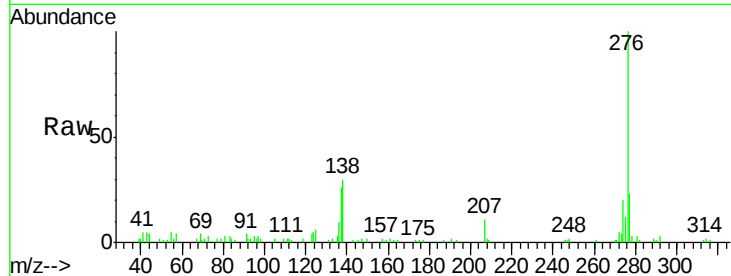




#91
 Benzo(a,h,i)perylene
 Concen: 4.69 ng
 RT: 17.49 min Scan# 2618
 Delta R.T. 0.01 min
 Lab File: BF102947.D
 Acq: 13 Feb 2018 4:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	29.8	21.8	32.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

