

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081518\
 Data File : BF108178.D
 Acq On : 15 Aug 2018 21:06
 Operator : JU/SJ
 Sample : J4460-11RE
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-FL-011

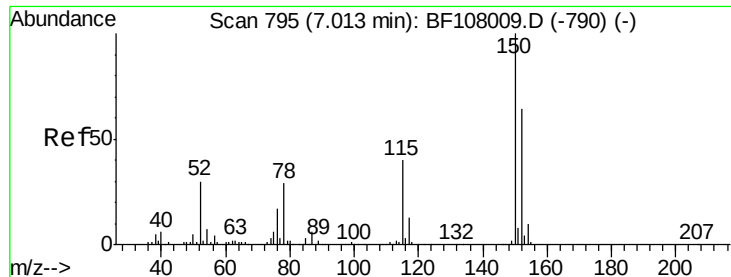
Quant Time: Aug 16 01:52:22 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	216805	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	819688	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	386556	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	621014	20.00	ng	0.00
75) Chrysene-d12	14.21	240	445159	20.00	ng	0.00
86) Perylene-d12	15.77	264	459987	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	1262499	105.43	ng	0.02
7) Phenol-d6	6.64	99	1696065	106.58	ng	0.01
23) Nitrobenzene-d5	7.58	82	1161481	79.07	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	356033	92.34	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	1967260	81.71	ng	0.00
78) Terphenyl-d14	13.15	244	1463533	83.59	ng	0.00

Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.58	70	157771	14.661	ng	# 86
25) Isophorone	7.58	82	1156590	41.309	ng	# 64
32) Benzoic acid	8.07	122	4389	6.507	ng	# 18
49) Dimethylphthalate	9.76	163	202239	7.511	ng	# 99
56) 2,4-Dinitrotoluene	10.06	165	53043	7.315	ng	# 24
64) 4,6-Dinitro-2-methylphenol	10.85	198	979	5.732	ng	# 1
66) 4-Bromophenyl-phenylether	10.85	248	24141	3.577	ng	# 1
70) Phenanthrene	11.58	178	267814	9.143	ng	98
71) Anthracene	11.63	178	75082	2.501	ng	98
74) Fluoranthene	12.78	202	302651	9.467	ng	94
77) Pyrene	13.01	202	260276	9.235	ng	98
80) Benzo(a)anthracene	14.20	228	148638	5.818	ng	98
82) Chrysene	14.24	228	117978	5.037	ng	96
85) Indeno(1,2,3-cd)pyrene	17.38	276	52769	2.600	ng	# 86
87) Benzo(b)fluoranthene	15.30	252	206193	7.502	ng	96
88) Benzo(k)fluoranthene	15.30	252	206193	8.161	ng	96
89) Benzo(a)pyrene	15.70	252	113818	4.624	ng	98
91) Benzo(g,h,i)perylene	17.88	276	44451	2.217	ng	92

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

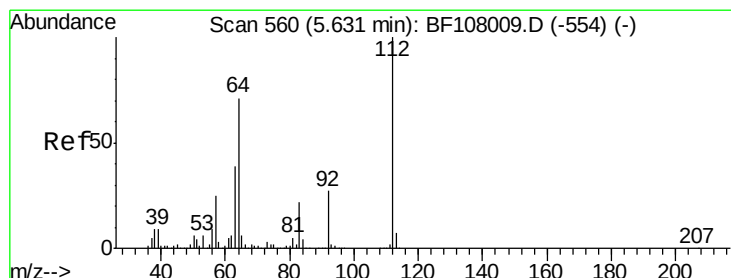
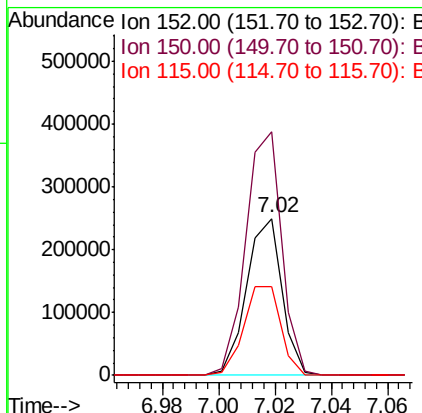
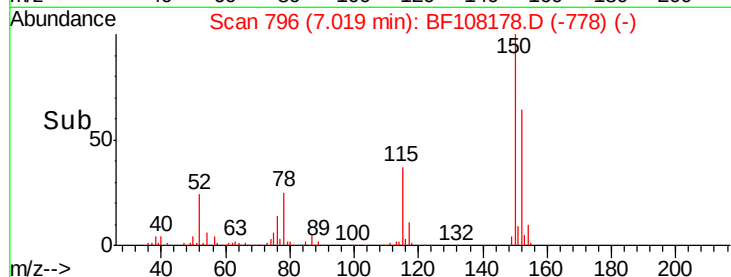
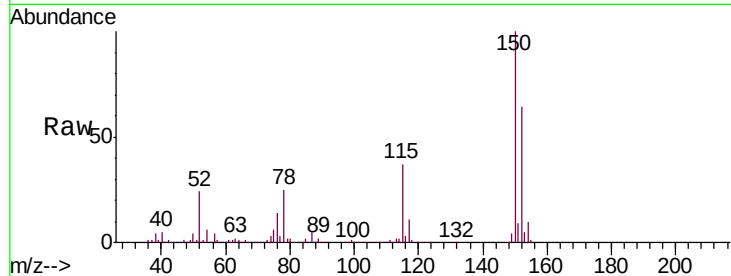


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-FL-011

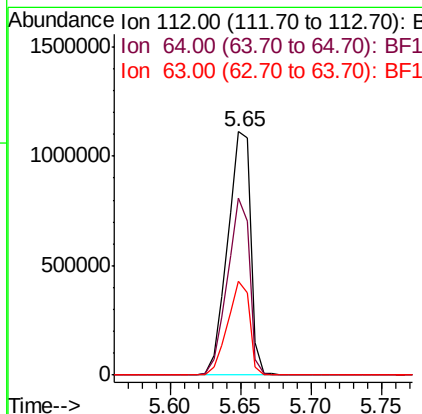
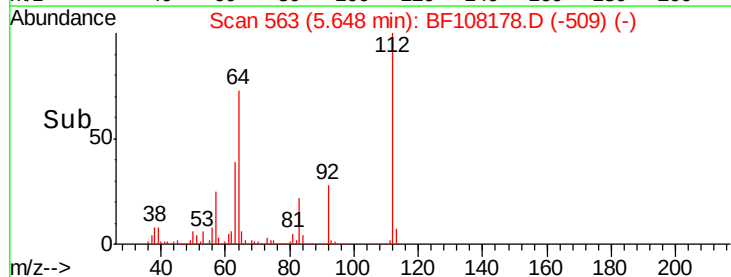
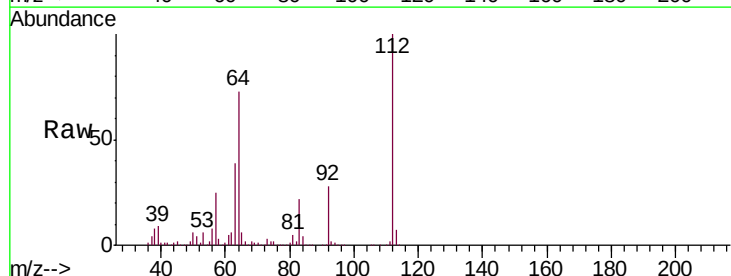
Tgt Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.6	186.8
115	56.7	50.1	75.1

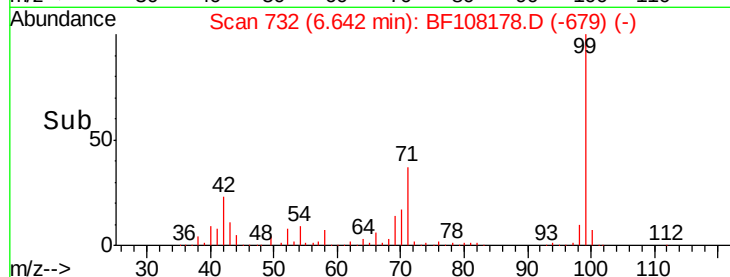
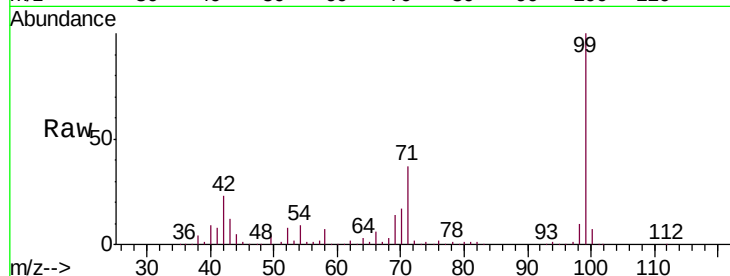
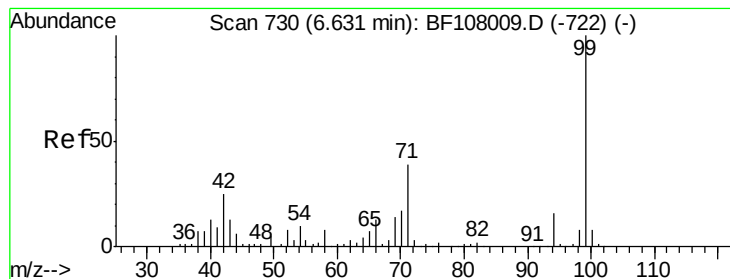


#5

2-Fluorophenol
Concen: 105.426 ng
RT: 5.65 min Scan# 563
Delta R.T. 0.02 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.0	47.9	71.9#
63	38.6	23.7	35.5#





#7

Phenol-d6

Concen: 106.581 ng

RT: 6.64 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

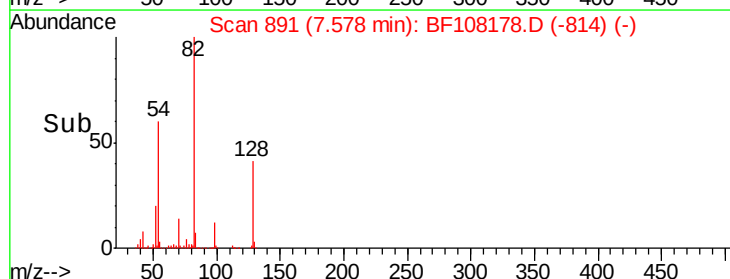
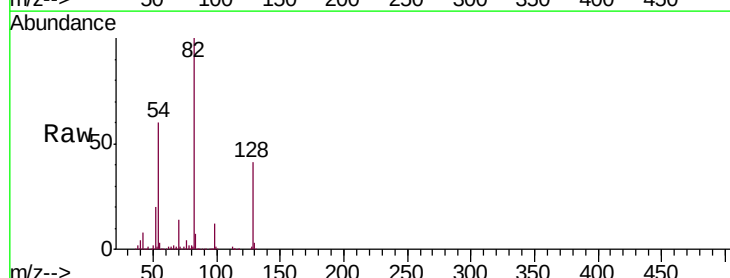
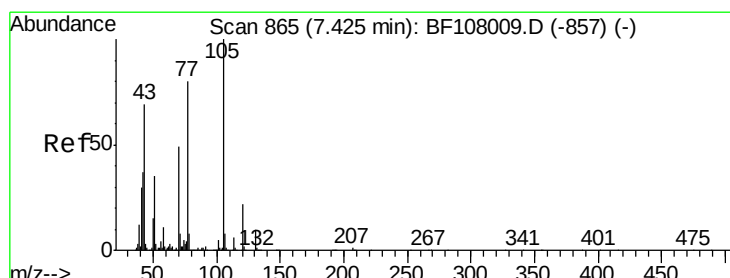
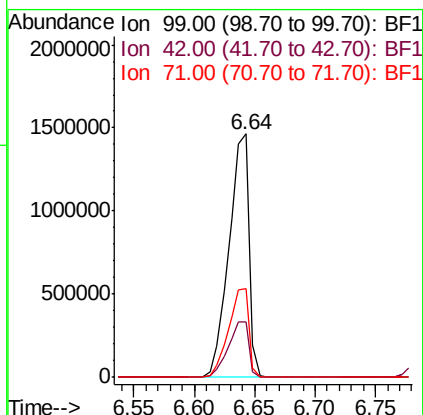
Tgt Ion: 99 Resp: 1696065

Ion Ratio Lower Upper

99 100

42 22.7 14.5 21.7#

71 36.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 14.661 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Tgt Ion: 70 Resp: 157771

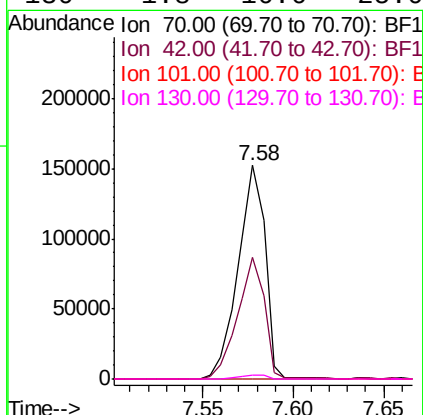
Ion Ratio Lower Upper

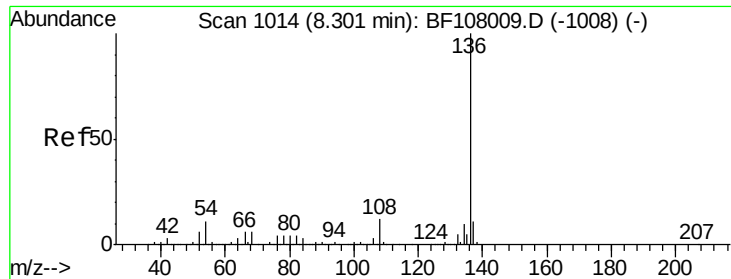
70 100

42 56.8 47.5 71.3

101 0.0 7.4 11.2#

130 1.8 16.6 25.0#

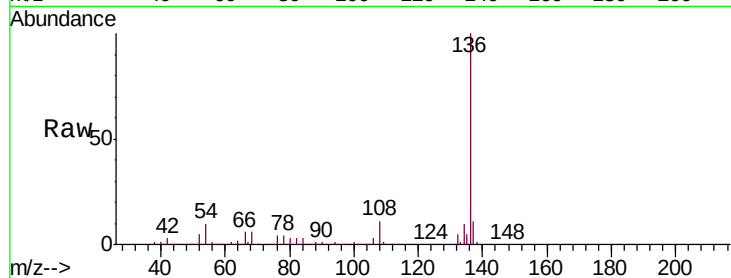




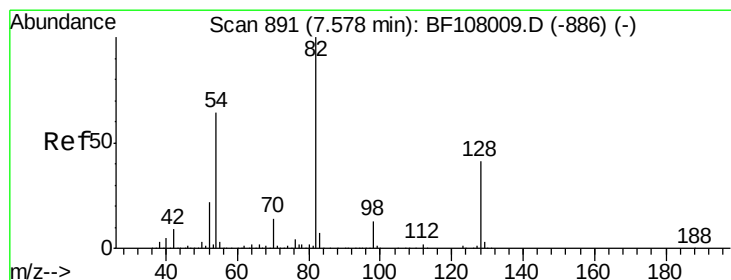
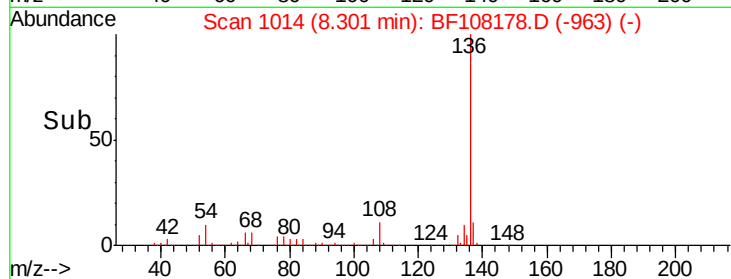
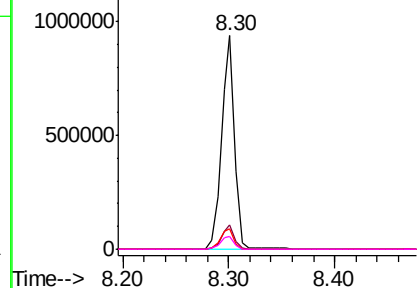
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.30 min Scan# 1014
Delta R.T. 0.00 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-FL-011

Tgt Ion:	136	Resp:	819688
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.8	6.6	9.8
68	5.9	5.0	7.4

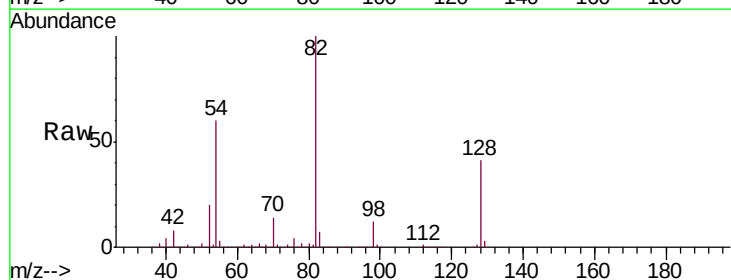


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

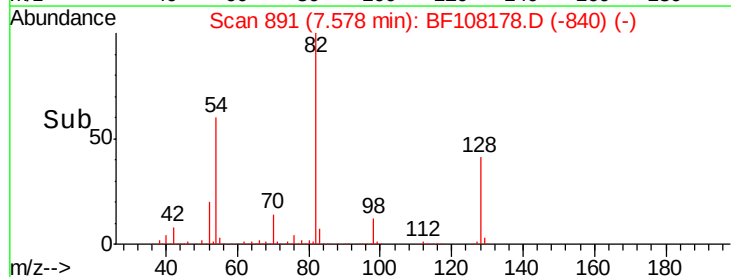
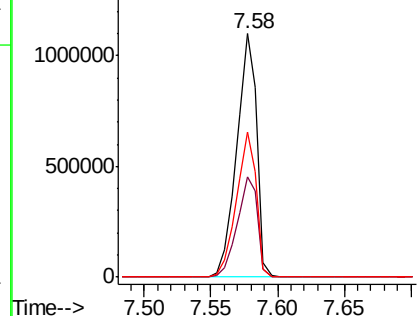


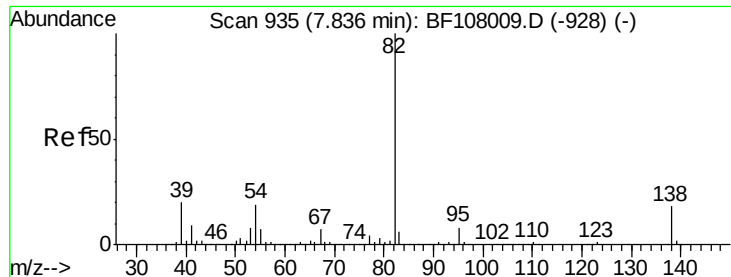
#23
Nitrobenzene-d5
Concen: 79.069 ng
RT: 7.58 min Scan# 891
Delta R.T. 0.00 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Tgt Ion:	82	Resp:	1161481
Ion	Ratio	Lower	Upper
82	100		
128	41.4	36.1	54.1
54	59.7	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





#25

Isophorone

Concen: 41.309 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

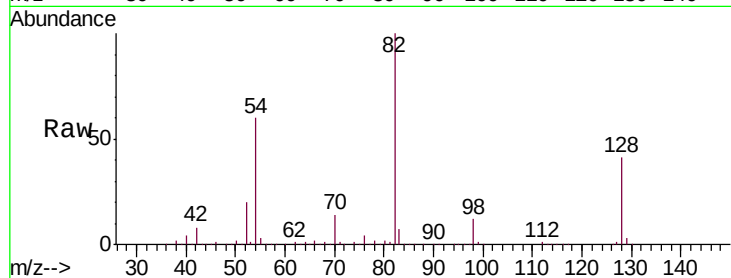
Tgt Ion: 82 Resp: 1156590

Ion Ratio Lower Upper

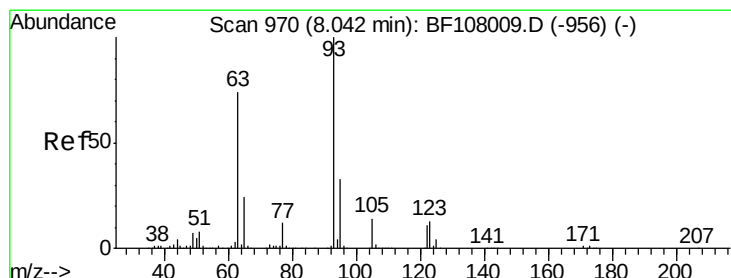
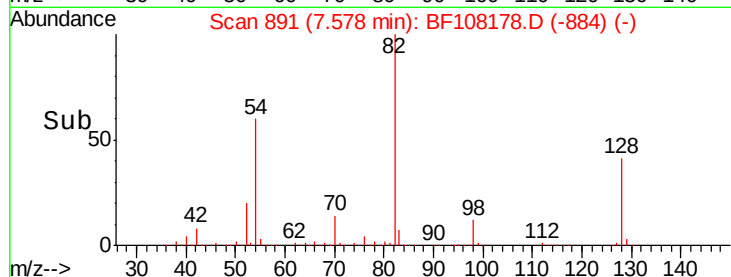
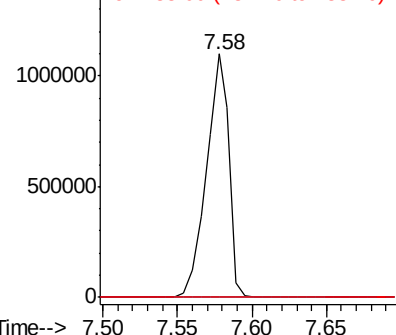
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
1500000
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): E



#32

Benzoic acid

Concen: 6.507 ng

RT: 8.07 min Scan# 974

Delta R.T. 0.02 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

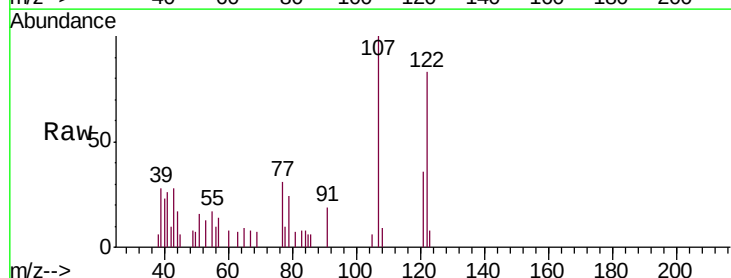
Tgt Ion: 122 Resp: 4389

Ion Ratio Lower Upper

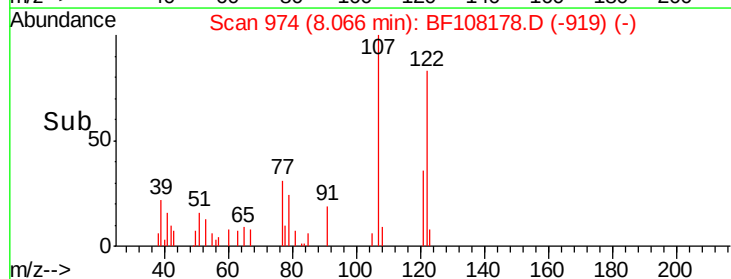
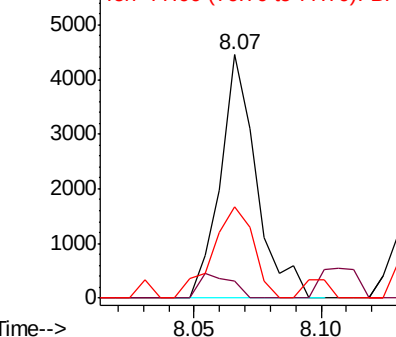
122 100

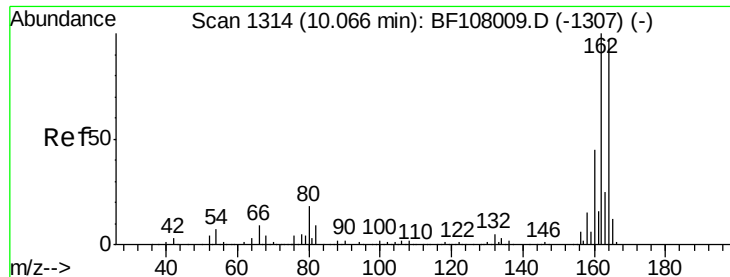
105 7.2 101.1 141.1#

77 37.3 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E
6000
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

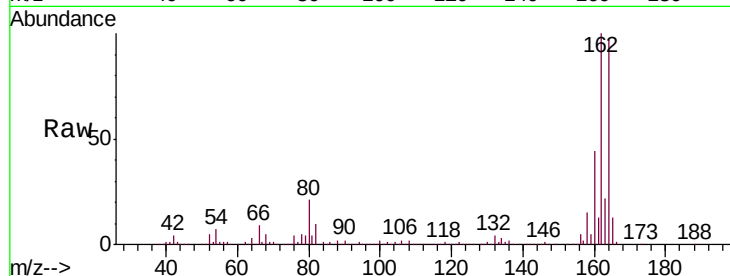
Tgt Ion:164 Resp: 386556

Ion Ratio Lower Upper

164 100

162 102.9 86.1 129.1

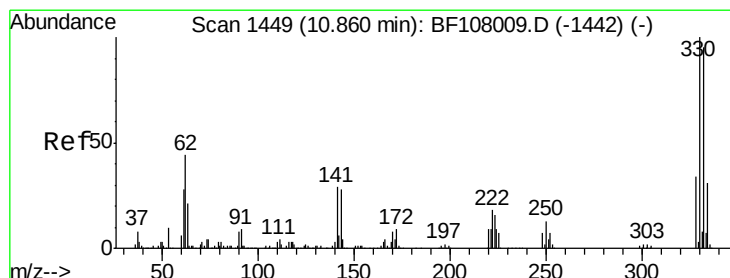
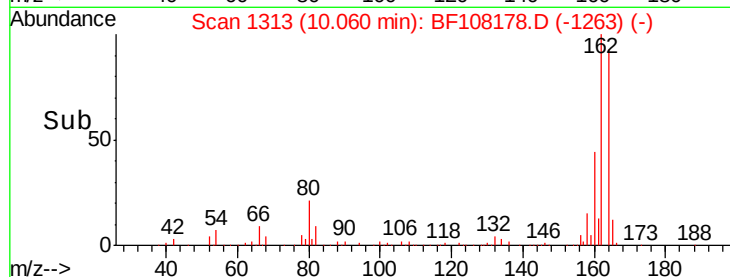
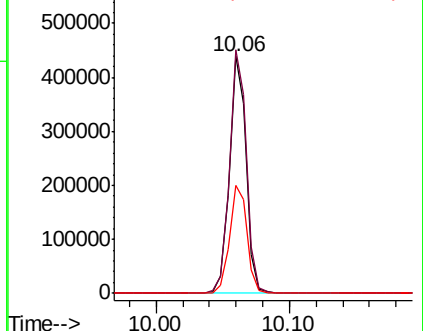
160 45.5 38.3 57.5



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: 92.337 ng

RT: 10.85 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

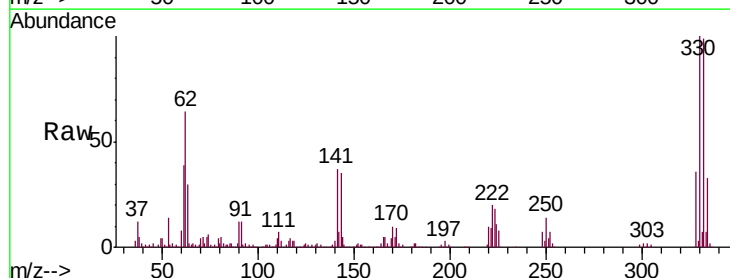
Tgt Ion:330 Resp: 356033

Ion Ratio Lower Upper

330 100

332 97.2 77.0 115.6

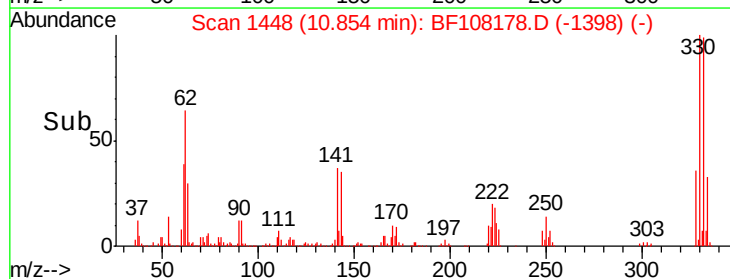
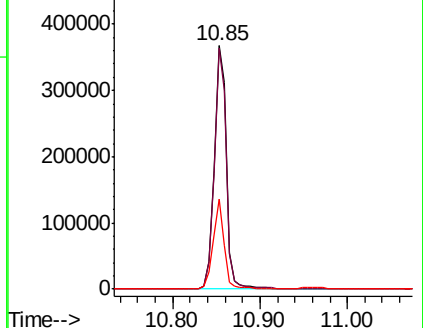
141 33.8 29.9 44.9

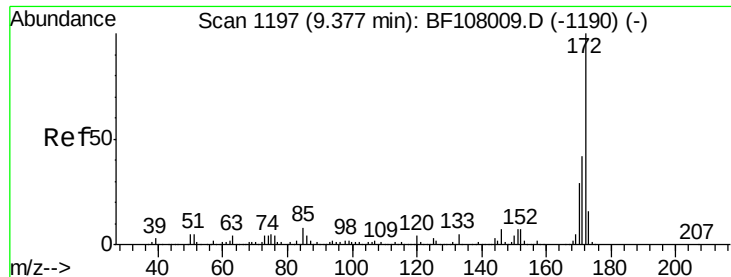


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

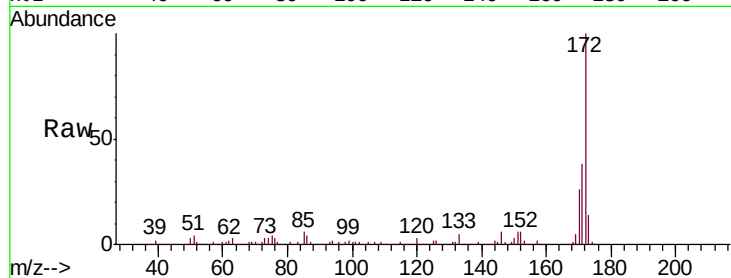




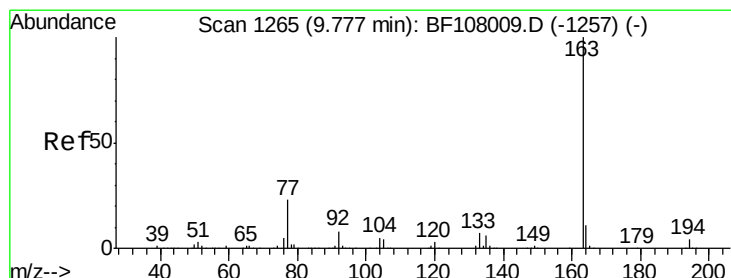
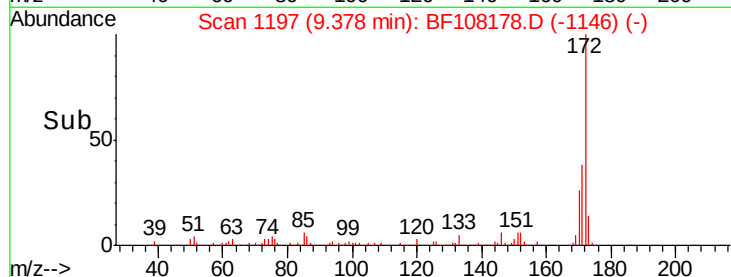
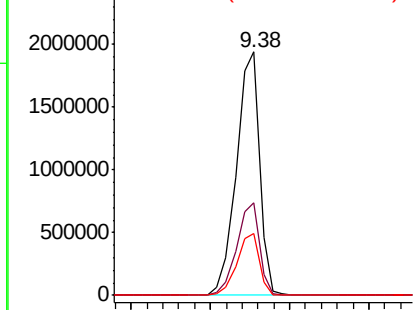
#44
2-Fluorobiphenyl
Concen: 81.705 ng
RT: 9.38 min Scan# 1197
Delta R.T. 0.00 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Instrument :
BNA_F
ClientSampleId :
RA-081018-FL-011

Tgt Ion:172 Resp: 1967260
Ion Ratio Lower Upper
172 100
171 37.9 29.7 44.5
170 25.6 19.6 29.4

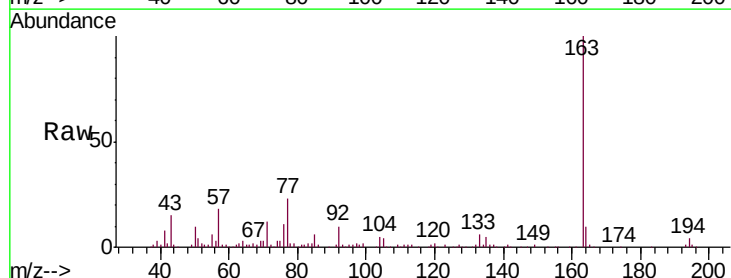


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

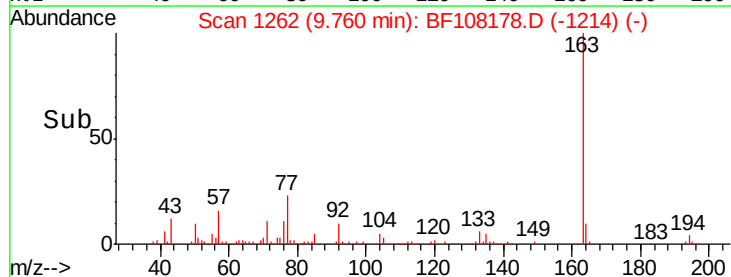
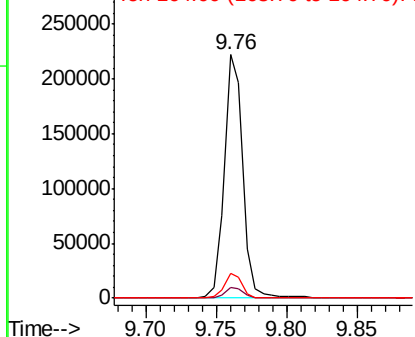


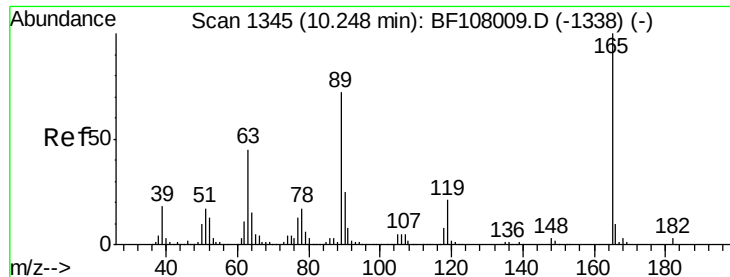
#49
Dimethylphthalate
Concen: 7.511 ng
RT: 9.76 min Scan# 1262
Delta R.T. -0.02 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Tgt Ion:163 Resp: 202239
Ion Ratio Lower Upper
163 100
194 4.1 2.7 4.1#
164 10.1 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

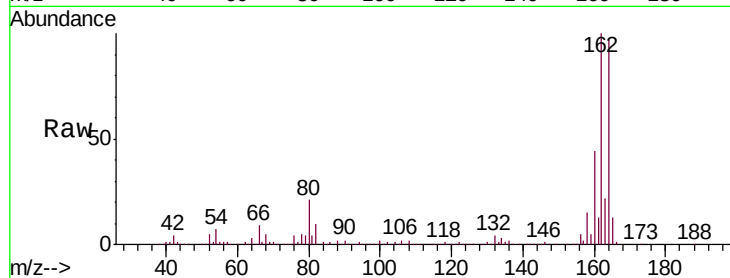




#56
 2,4-Dinitrotoluene
 Concen: 7.315 ng
 RT: 10.06 min Scan# 1313
 Delta R.T. -0.19 min
 Lab File: BF108178.D
 Acq: 15 Aug 2018 21:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-FL-011

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	36.4	54.6#
89	2.0	57.8	86.6#
182	0.0	1.6	2.4#

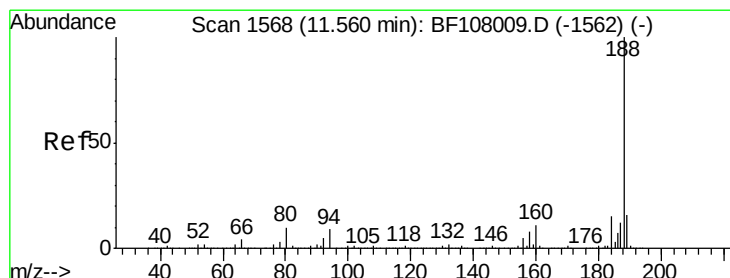
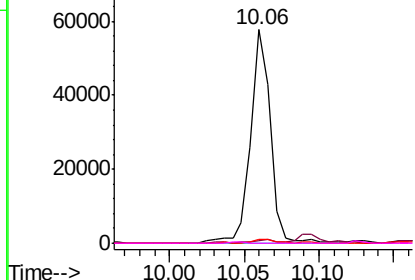
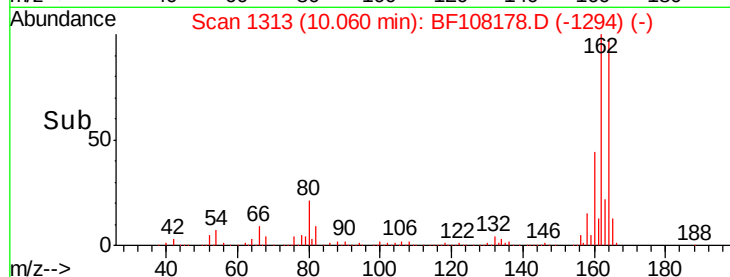


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

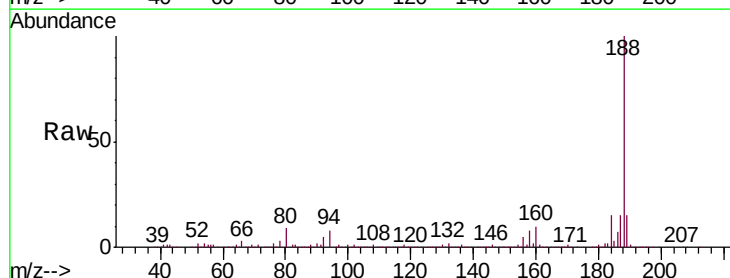
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.56 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: BF108178.D
 Acq: 15 Aug 2018 21:06

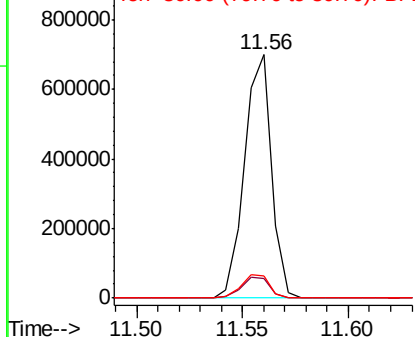
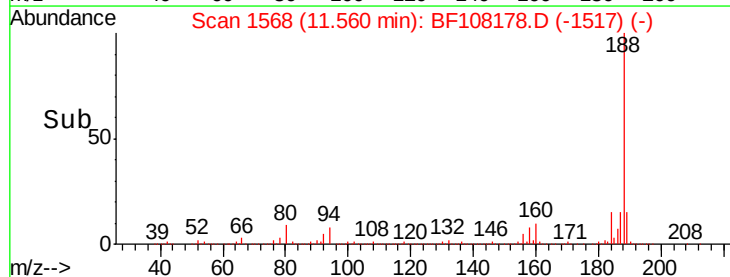
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.0	8.5	12.7#
80	8.9	9.2	13.8#

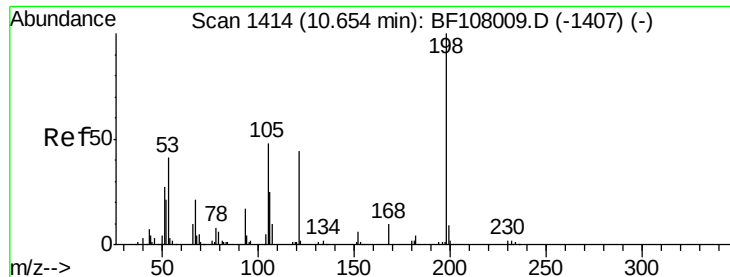


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

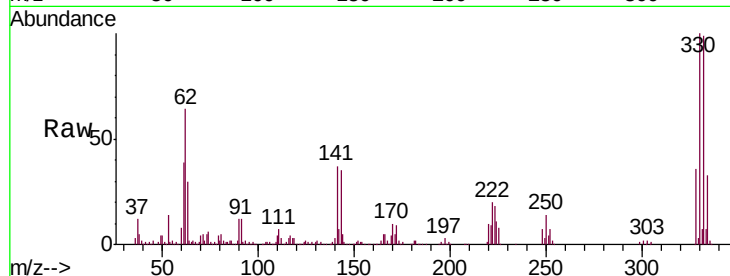




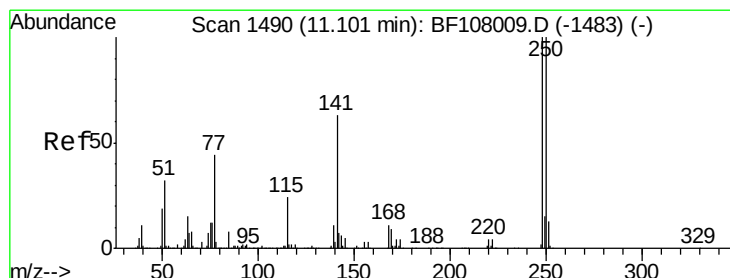
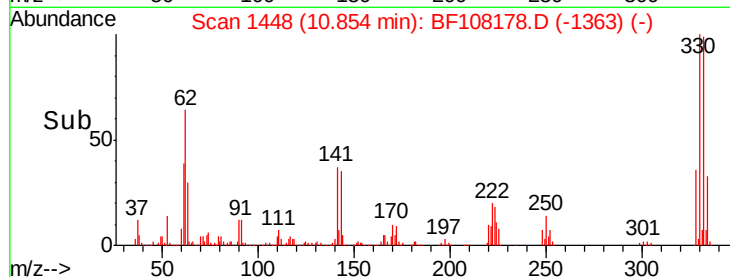
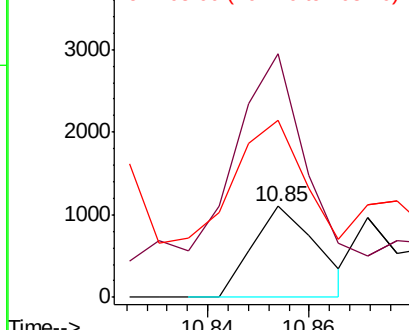
#64
 4,6-Dinitro-2-methylphenol
 Concen: 5.732 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. 0.20 min
 Lab File: BF108178.D
 Acq: 15 Aug 2018 21:06

Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-FL-011

Tgt Ion:198 Resp: 979
 Ion Ratio Lower Upper
 198 100
 51 266.8 37.7 77.7#
 105 193.5 36.3 76.3#

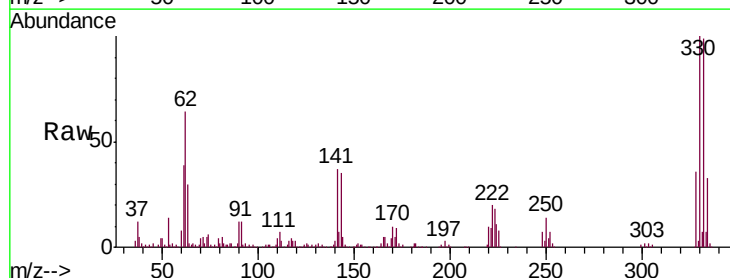


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

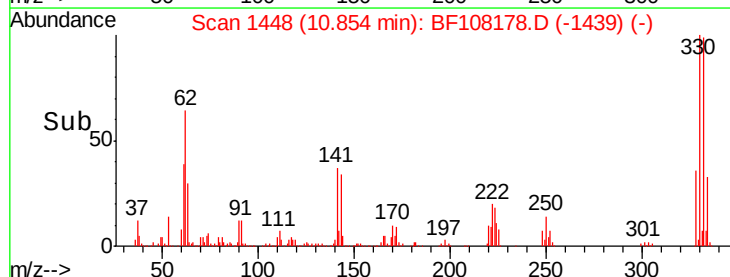
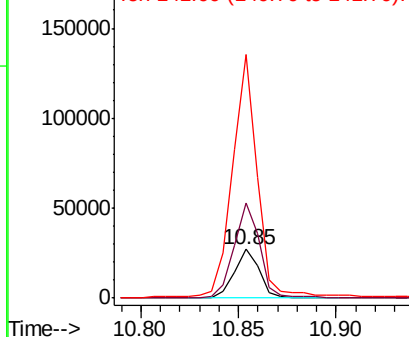


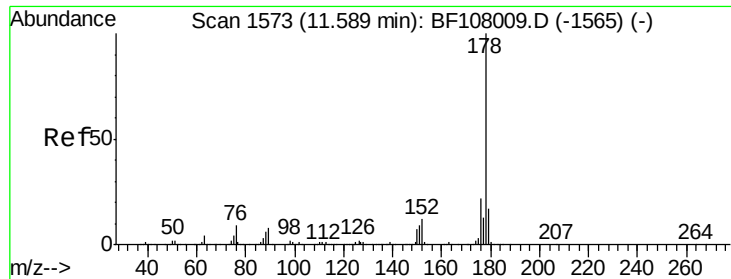
#66
 4-Bromophenyl-phenylether
 Concen: 3.577 ng
 RT: 10.85 min Scan# 1448
 Delta R.T. -0.25 min
 Lab File: BF108178.D
 Acq: 15 Aug 2018 21:06

Tgt Ion:248 Resp: 24141
 Ion Ratio Lower Upper
 248 100
 250 195.0 76.9 115.3#
 141 500.4 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

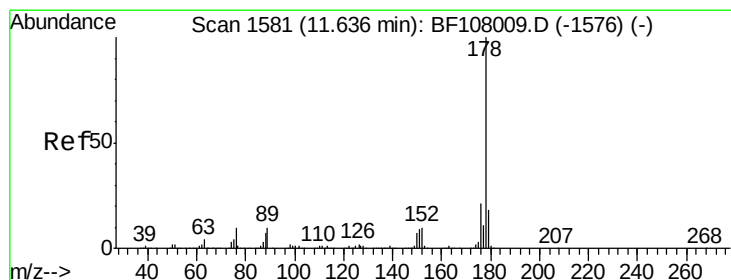
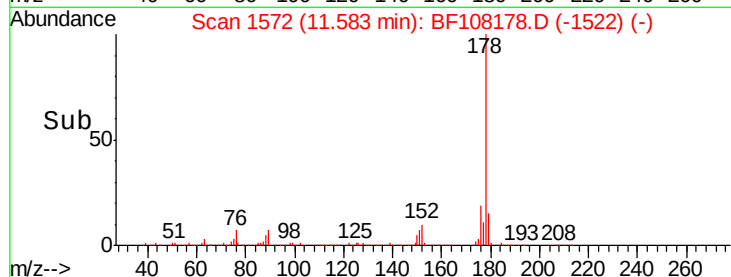
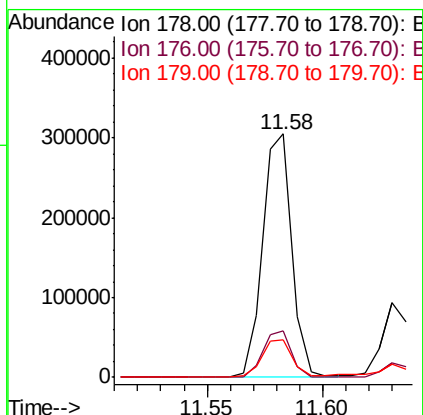
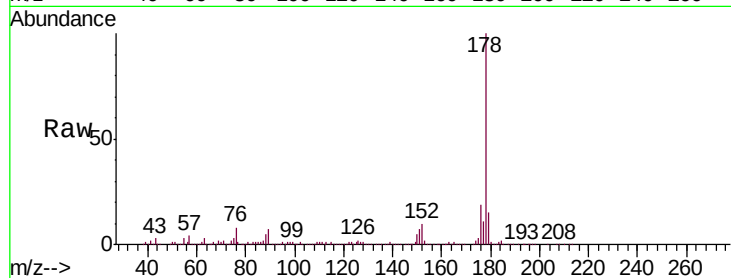




#70
Phenanthrene
Concen: 9.143 ng
RT: 11.58 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

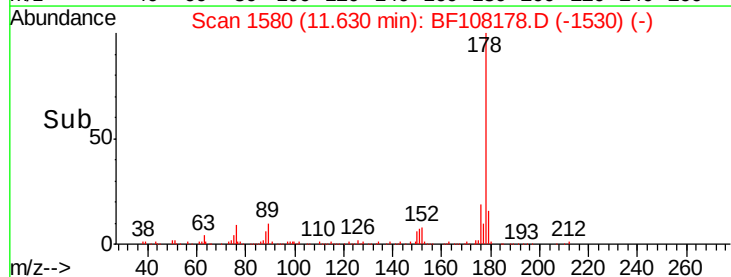
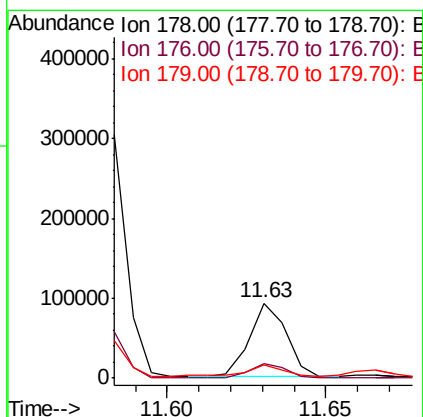
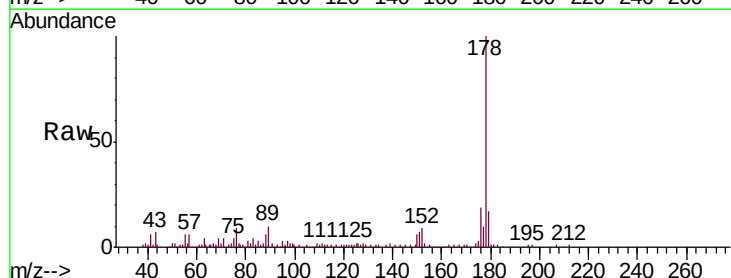
Instrument :
BNA_F
ClientSampleId :
RA-081018-FL-011

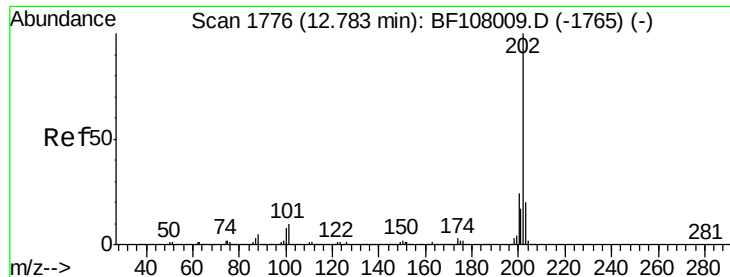
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.4	13.0	19.6



#71
Anthracene
Concen: 2.501 ng
RT: 11.63 min Scan# 1580
Delta R.T. -0.01 min
Lab File: BF108178.D
Acq: 15 Aug 2018 21:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	16.9	12.6	19.0





#74

Fluoranthene

Concen: 9.467 ng

RT: 12.78 min Scan# 1775

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

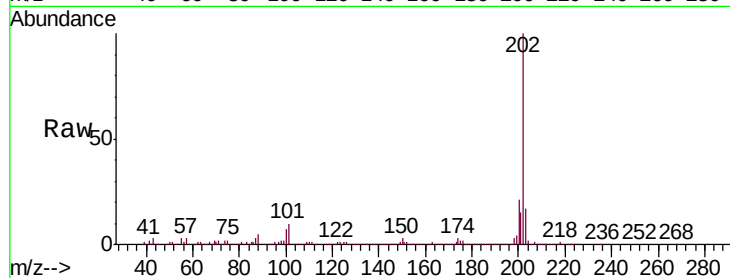
Tgt Ion:202 Resp: 302651

Ion Ratio Lower Upper

202 100

101 9.6 0.0 34.1

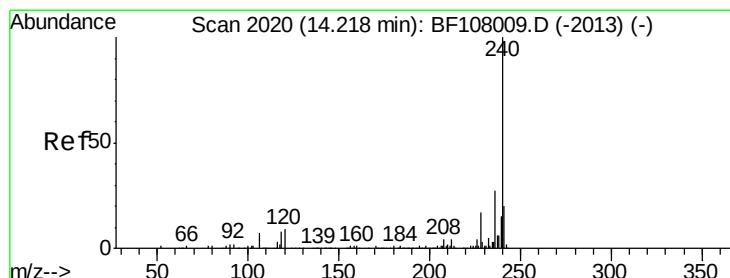
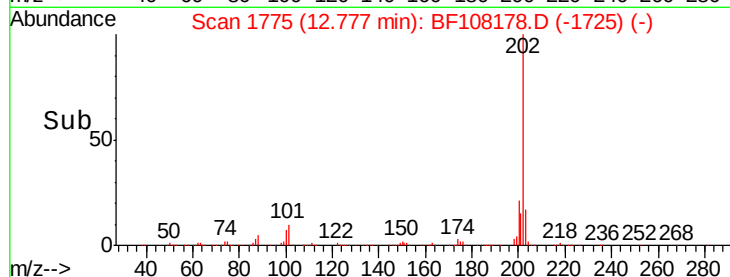
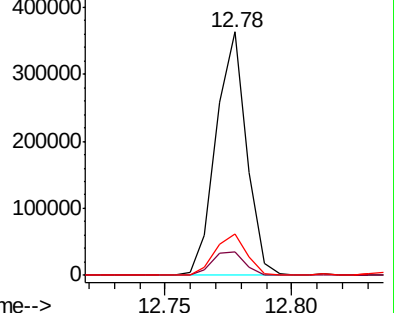
203 17.0 0.0 38.1



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: 14.21 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

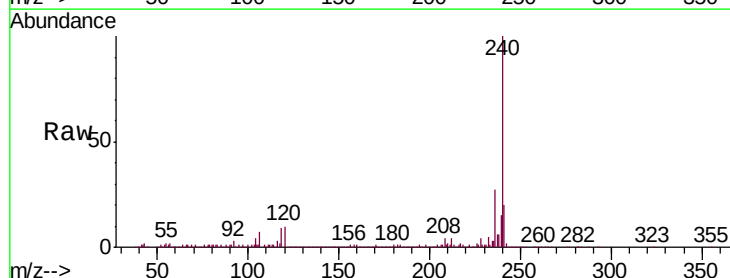
Tgt Ion:240 Resp: 445159

Ion Ratio Lower Upper

240 100

120 9.7 9.5 14.3

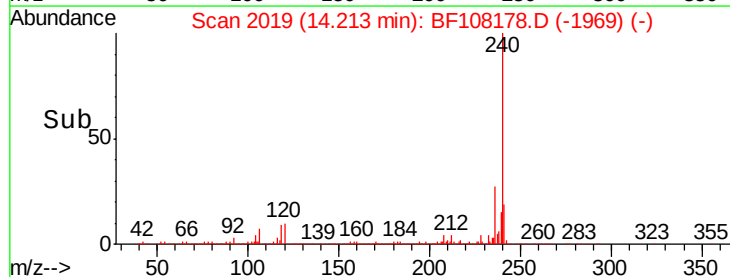
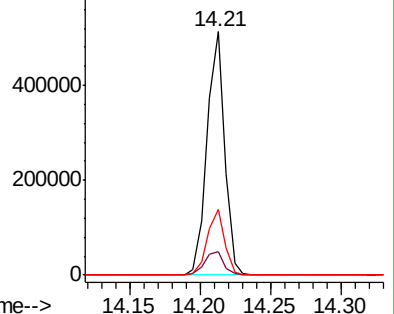
236 27.0 20.7 31.1

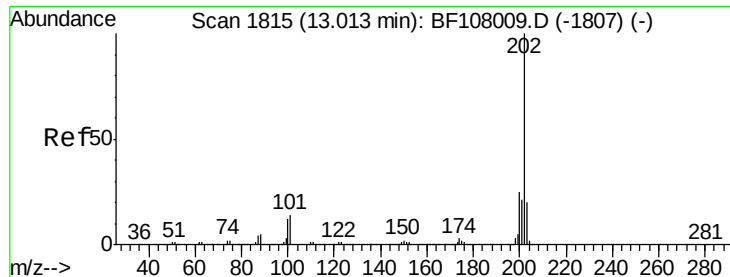


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 9.235 ng

RT: 13.01 min Scan# 1814

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

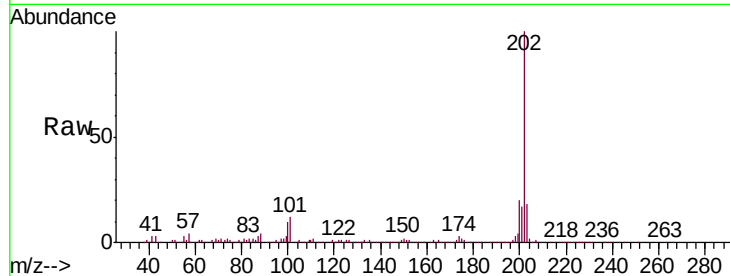
Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

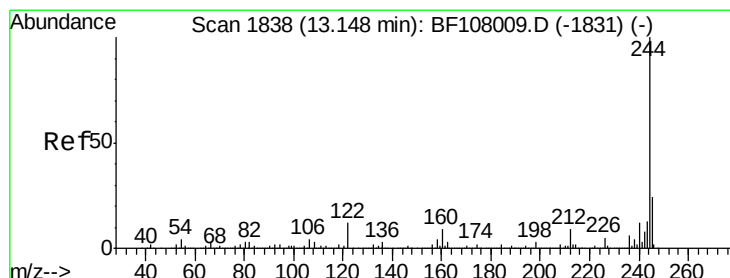
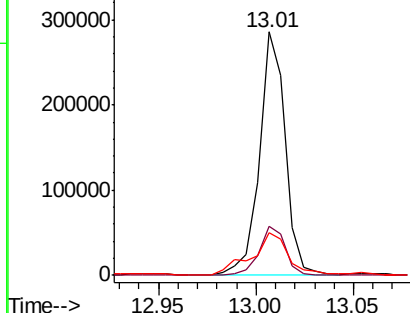
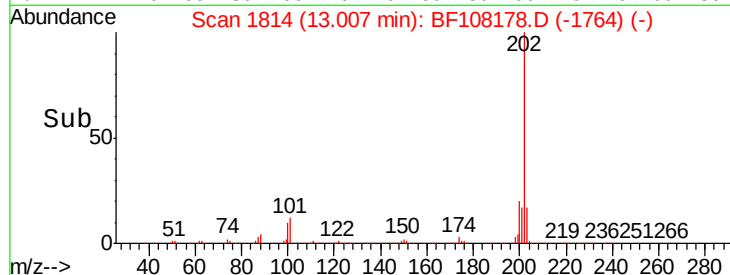
Tgt Ion:	202	Resp:	260276
Ion	Ratio	Lower	Upper
202	100		
200	20.2	17.4	26.2
203	17.6	14.3	21.5



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: 83.591 ng

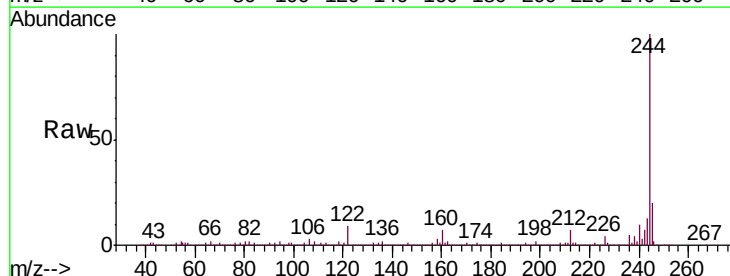
RT: 13.15 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

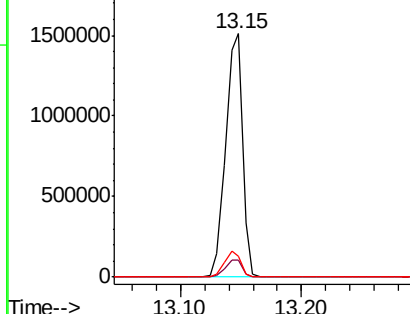
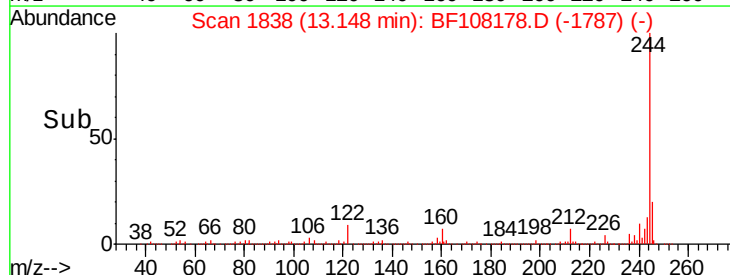
Tgt Ion:	244	Resp:	1463533
Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	8.8	11.0	16.4

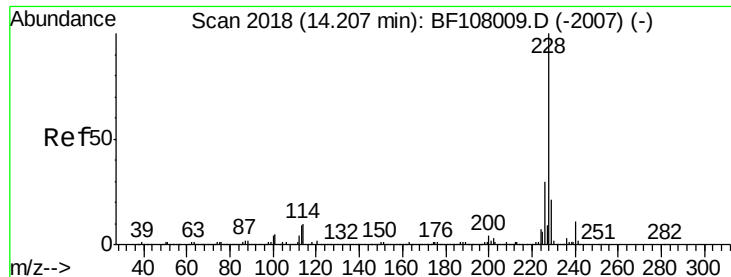


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.818 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

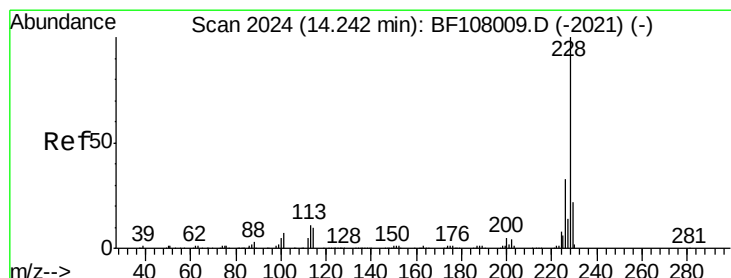
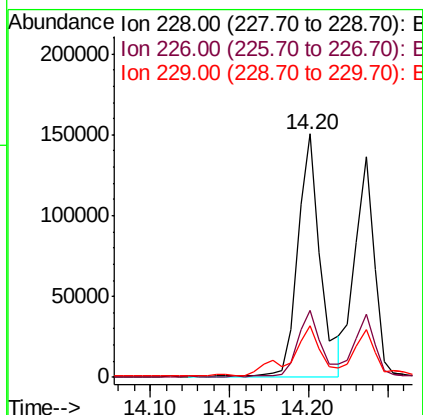
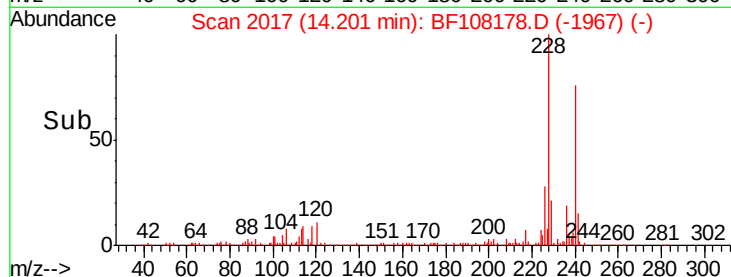
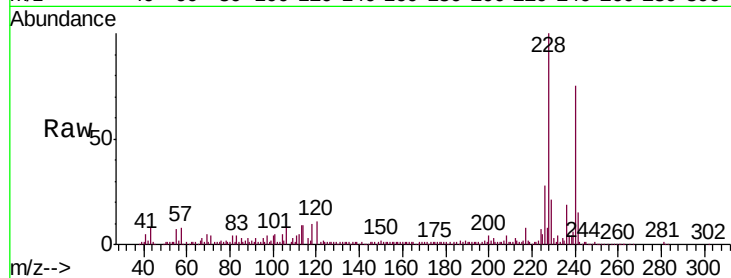
Tgt Ion:228 Resp: 148638

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

229 21.1 15.8 23.6



#82

Chrysene

Concen: 5.037 ng

RT: 14.24 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

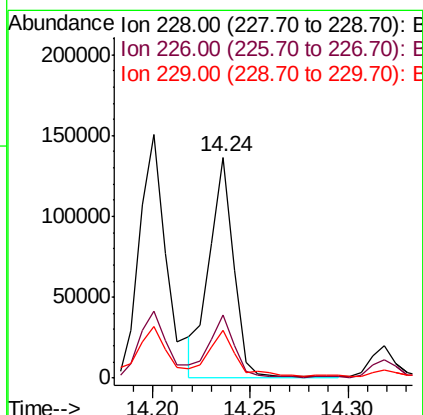
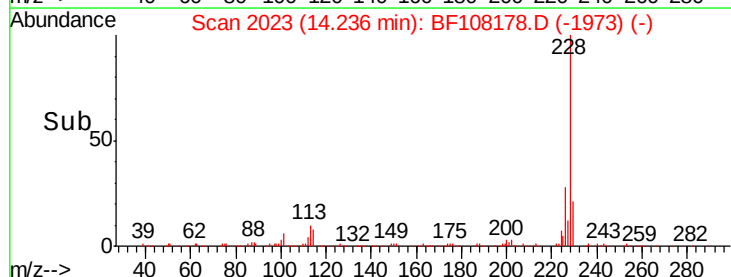
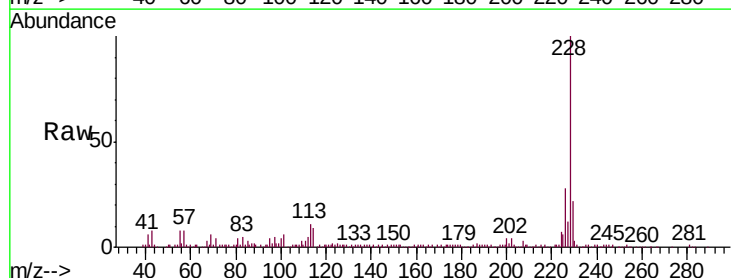
Tgt Ion:228 Resp: 117978

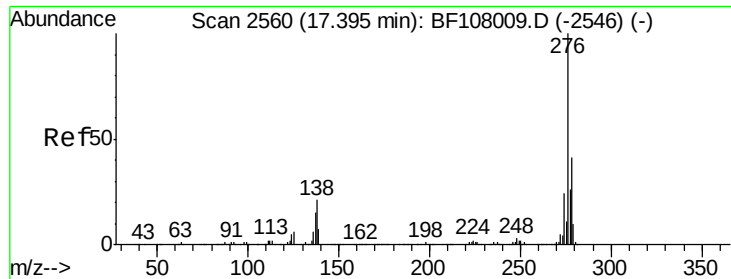
Ion Ratio Lower Upper

228 100

226 28.4 25.0 37.6

229 21.7 16.2 24.4

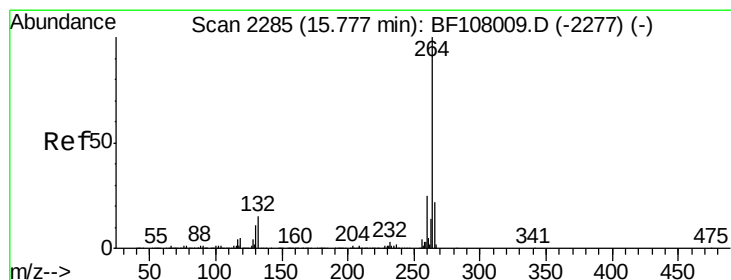
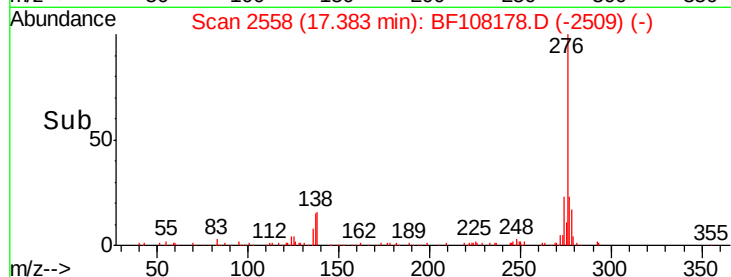
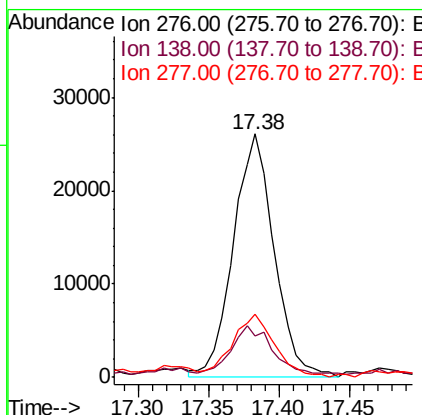
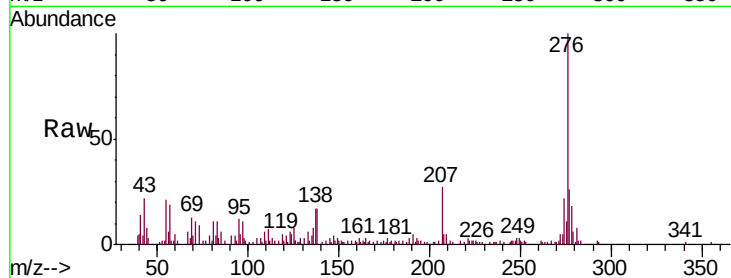




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.600 ng
 RT: 17.38 min Scan# 2558
 Delta R.T. -0.01 min
 Lab File: BF108178.D
 Acq: 15 Aug 2018 21:06

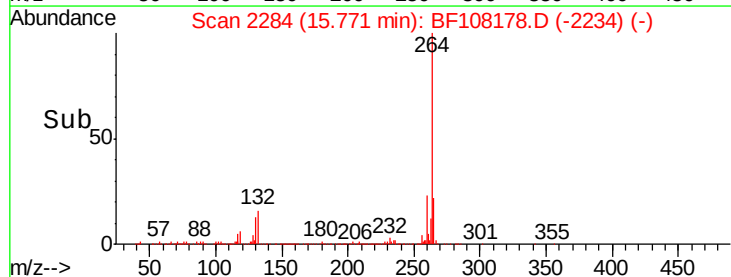
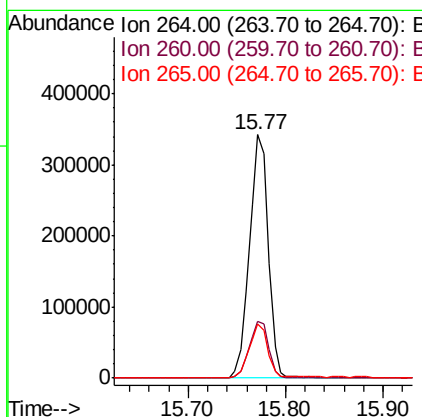
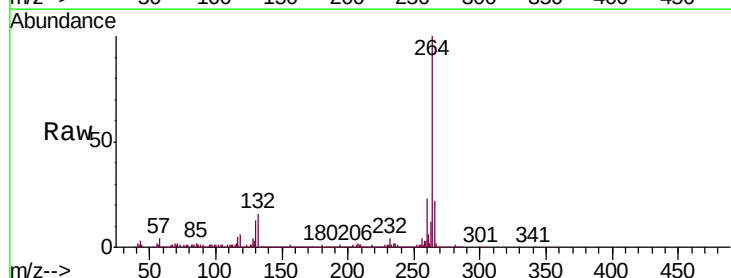
Instrument :
 BNA_F
 ClientSampleId :
 RA-081018-FL-011

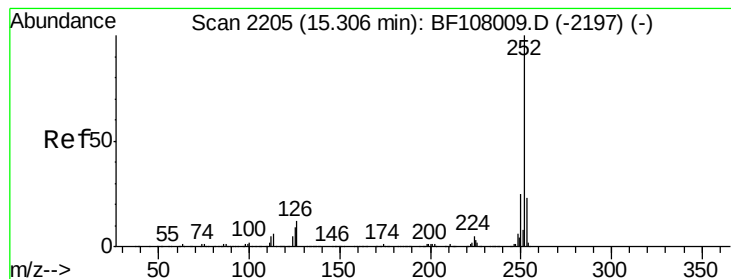
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.5	25.0	37.6#
277	27.2	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.77 min Scan# 2284
 Delta R.T. -0.01 min
 Lab File: BF108178.D
 Acq: 15 Aug 2018 21:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 7.502 ng

RT: 15.30 min Scan# 2204

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

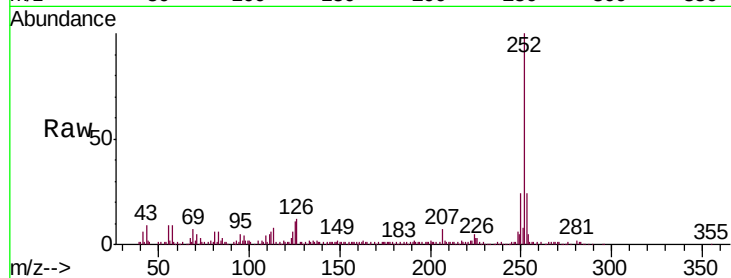
Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

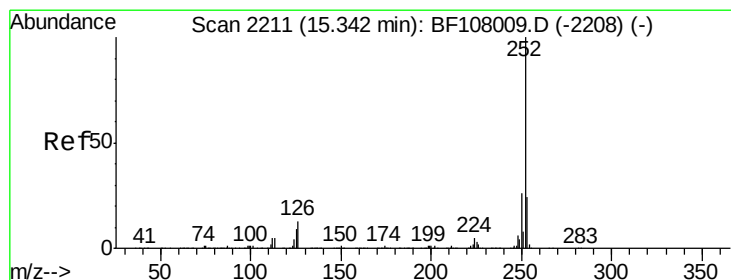
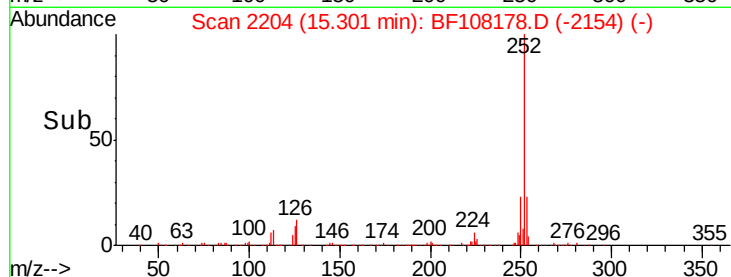
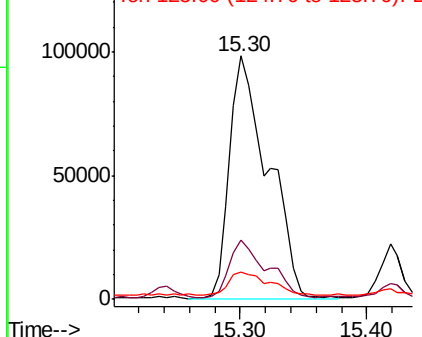
Tgt Ion:	252	Resp:	206193
Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.0	25.6
125	11.0	9.0	13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.161 ng

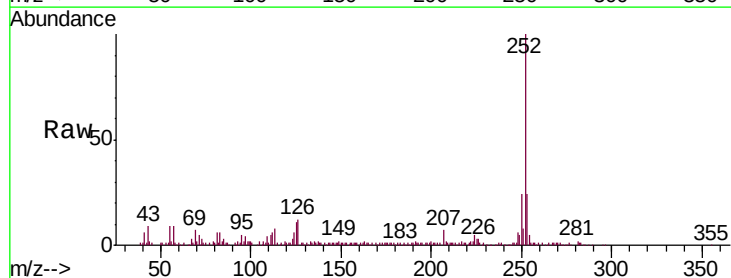
RT: 15.30 min Scan# 2204

Delta R.T. -0.04 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

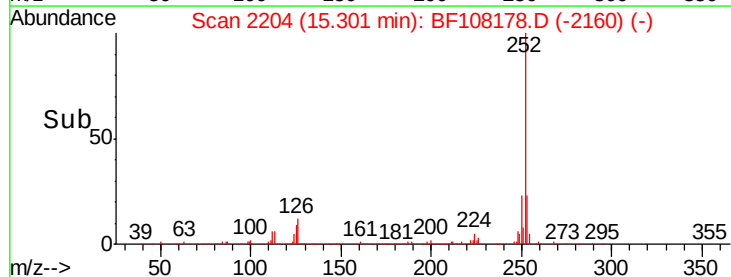
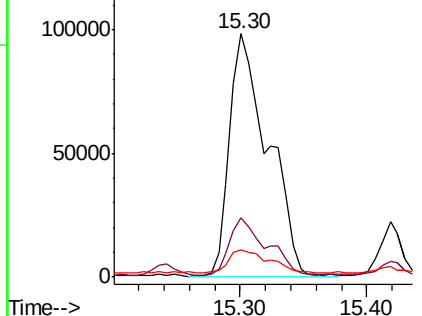
Tgt Ion:	252	Resp:	206193
Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	11.0	10.2	15.2

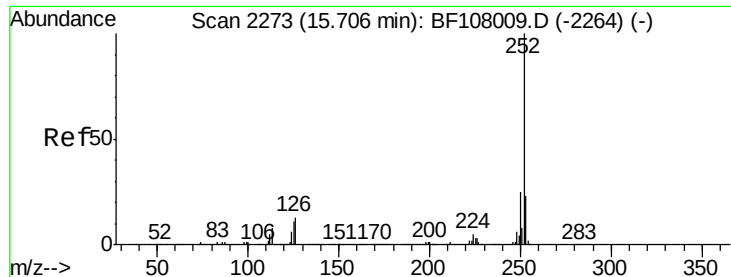


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 4.624 ng

RT: 15.70 min Scan# 2272

Delta R.T. -0.01 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

Instrument :

BNA_F

ClientSampleId :

RA-081018-FL-011

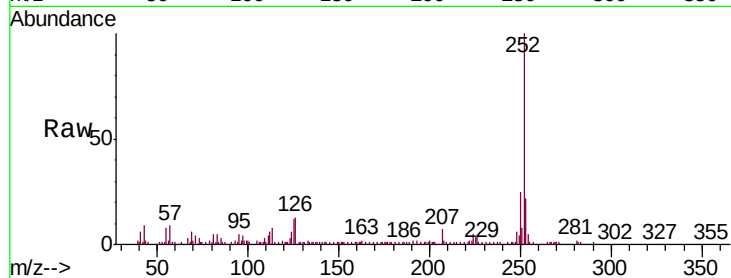
Tgt Ion:252 Resp: 113818

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

125 12.4 9.8 14.6

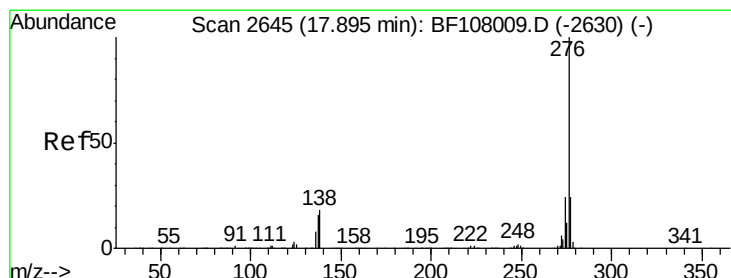
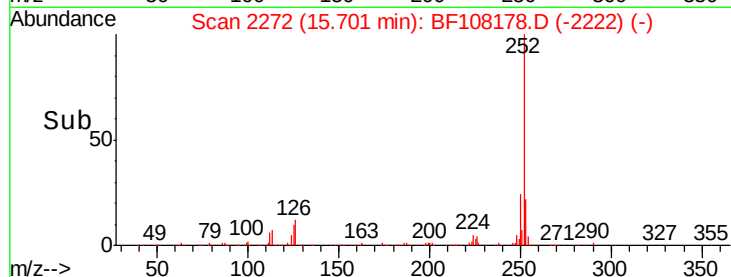
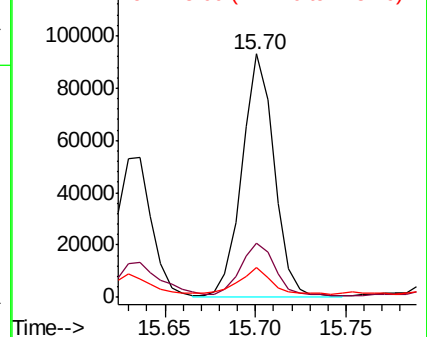


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.217 ng

RT: 17.88 min Scan# 2642

Delta R.T. -0.02 min

Lab File: BF108178.D

Acq: 15 Aug 2018 21:06

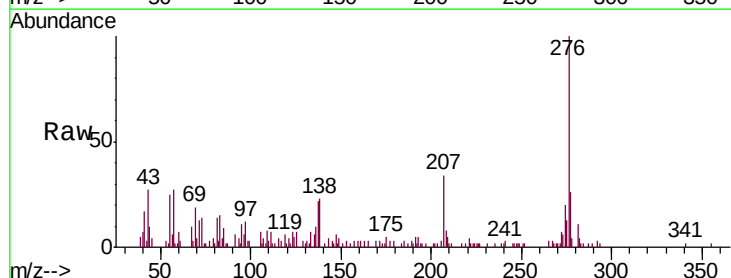
Tgt Ion:276 Resp: 44451

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 22.6 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

