

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081518\
 Data File : BF108172.D
 Acq On : 15 Aug 2018 18:21
 Operator : JU/SJ
 Sample : J4460-02RE
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-080918-SW-002

Quant Time: Aug 16 01:49:59 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	197804	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	744397	20.00	ng	0.00
38) Acenaphthene-d10	10.06	164	385608	20.00	ng	0.00
63) Phenanthrene-d10	11.56	188	740125	20.00	ng	0.00
75) Chrysene-d12	14.21	240	414916	20.00	ng	0.00
86) Perylene-d12	15.78	264	437106	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	917654	83.99	ng	0.02
7) Phenol-d6	6.64	99	1273914	87.74	ng	0.00
23) Nitrobenzene-d5	7.58	82	853666	63.99	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	266067	69.17	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	1441372	60.01	ng	0.00
78) Terphenyl-d14	13.15	244	1234621	75.66	ng	0.00

Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.58	70	118973	12.118	ng	# 83
25) Isophorone	7.58	82	850510	33.449	ng	# 64
32) Benzoic acid	8.07	122	1501	6.175	ng	# 28
49) Dimethylphthalate	9.76	163	178710	6.653	ng	99
53) 2,4-Dinitrophenol	10.34	184	313	7.156	ng	# 1
56) 2,4-Dinitrotoluene	10.06	165	52068	7.198	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.85	198	653	5.567	ng	# 1
66) 4-Bromophenyl-phenylether	10.85	248	18499	2.300	ng	# 1
70) Phenanthrene	11.58	178	134880	3.864	ng	97
73) Di-n-butylphthalate	12.11	149	168479	4.679	ng	99
74) Fluoranthene	12.78	202	198379	5.207	ng	95
77) Pyrene	13.01	202	170908	6.506	ng	99
80) Benzo(a)anthracene	14.20	228	94472	3.967	ng	98
82) Chrysene	14.20	228	94472	4.328	ng	96
85) Indeno(1,2,3-cd)pyrene	17.39	276	62388	3.298	ng	# 88
87) Benzo(b)fluoranthene	15.31	252	160551	6.147	ng	97
88) Benzo(k)fluoranthene	15.31	252	160551	6.687	ng	99
89) Benzo(a)pyrene	15.71	252	88440	3.781	ng	# 95
91) Benzo(g,h,i)perylene	17.88	276	59724	3.134	ng	# 92

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

```
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Sample    : J4460-02RE
Misc      :
ALS Vial  : 5      Sample Multiplier: 1
```

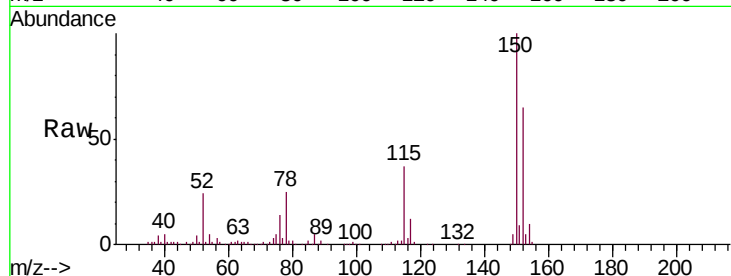


#1

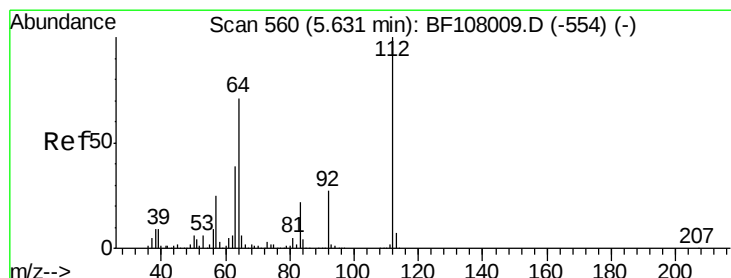
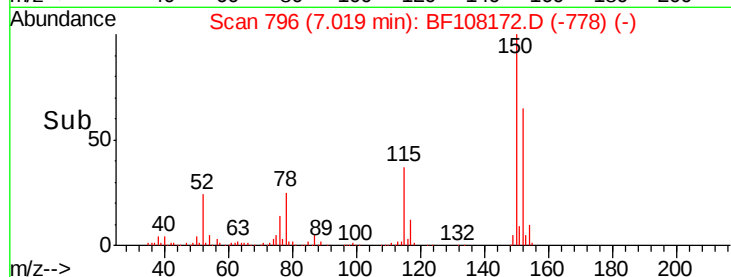
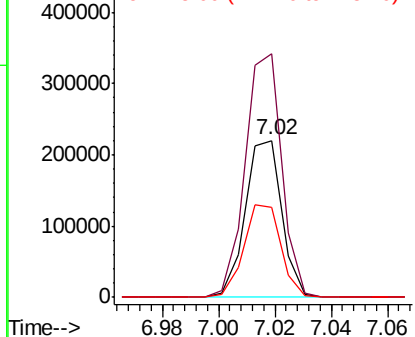
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Instrument :
BNA_F
ClientSampleId :
RA-080918-SW-002

Tgt Ion:152 Resp: 197804
Ion Ratio Lower Upper
152 100
150 154.9 124.6 186.8
115 57.5 50.1 75.1



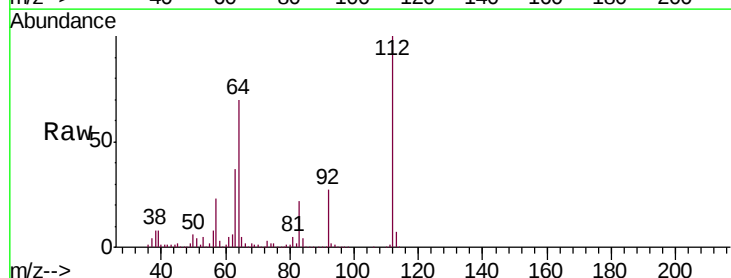
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



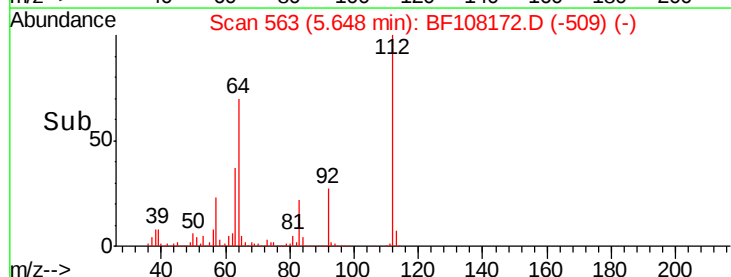
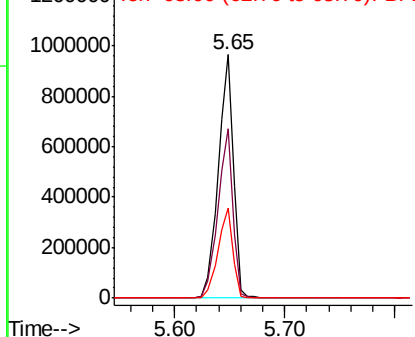
#5

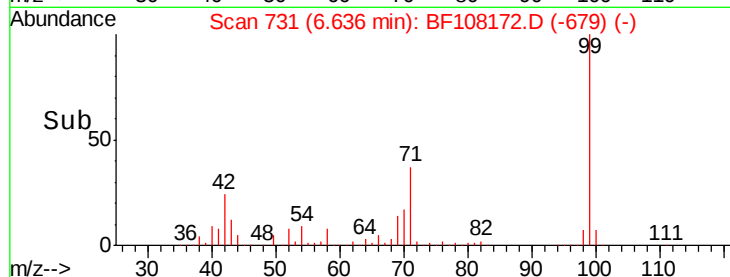
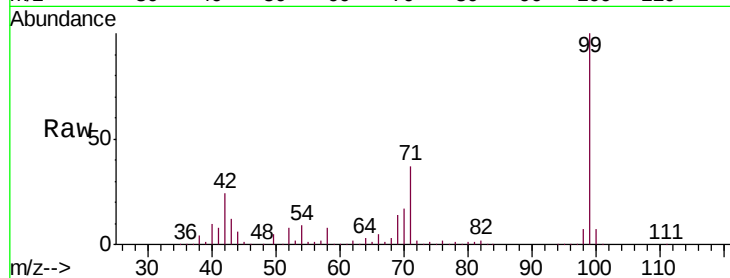
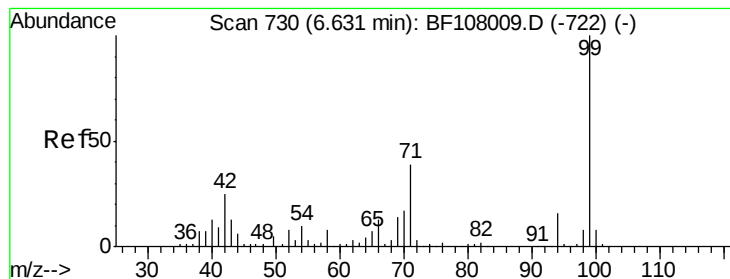
2-Fluorophenol
Concen: 83.991 ng
RT: 5.65 min Scan# 563
Delta R.T. 0.02 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Tgt Ion:112 Resp: 917654
Ion Ratio Lower Upper
112 100
64 69.6 47.9 71.9
63 36.9 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: 87.743 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

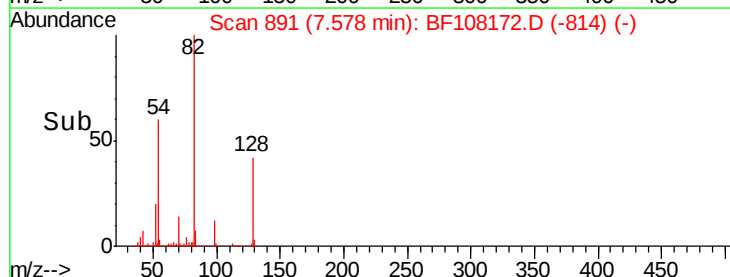
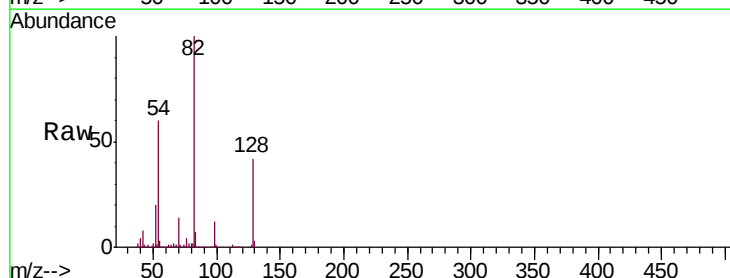
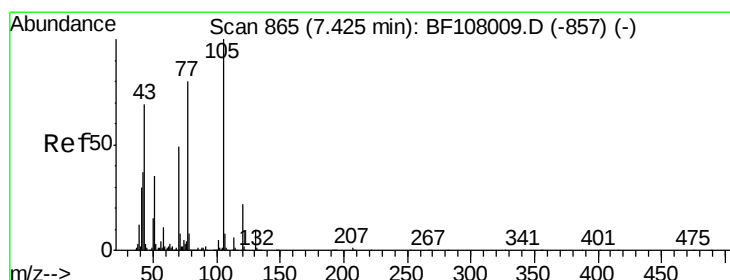
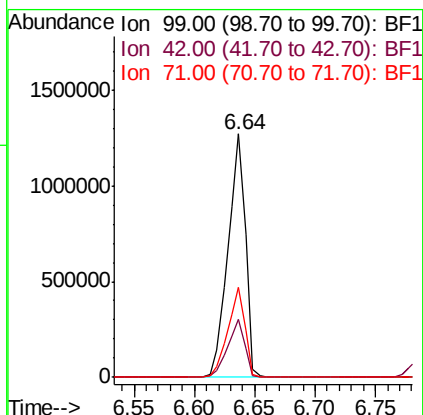
BNA_F

ClientSampleId :

RA-080918-SW-002

Tgt Ion: 99 Resp: 1273914

Ion	Ratio	Lower	Upper
99	100		
42	23.8	14.5	21.7#
71	37.1	25.4	38.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.118 ng

RT: 7.58 min Scan# 891

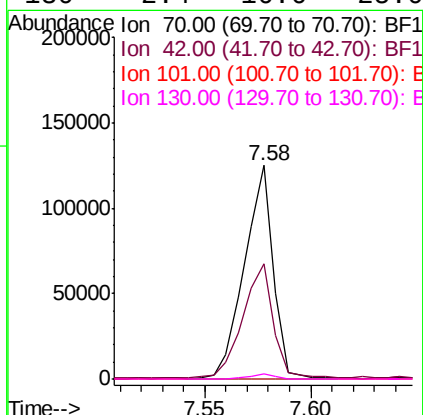
Delta R.T. 0.15 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Tgt Ion: 70 Resp: 118973

Ion	Ratio	Lower	Upper
70	100		
42	54.0	47.5	71.3
101	0.0	7.4	11.2#
130	2.4	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: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

Tgt Ion: 136 Resp: 744397

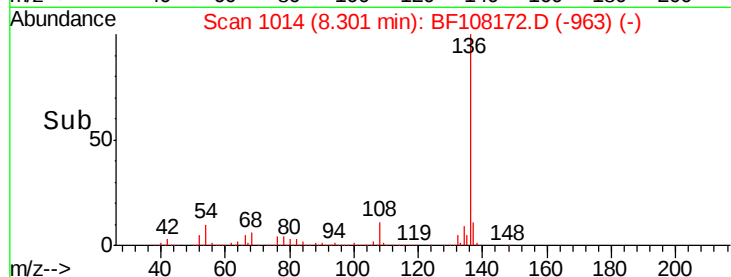
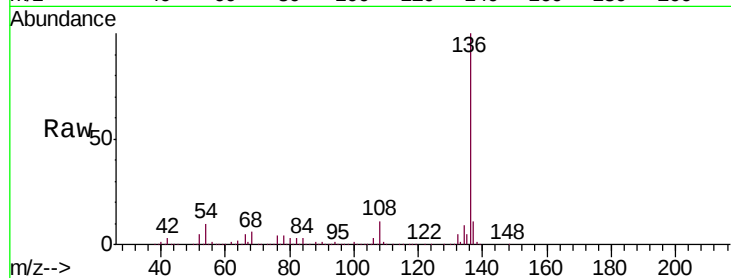
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 9.8 6.6 9.8

68 5.9 5.0 7.4

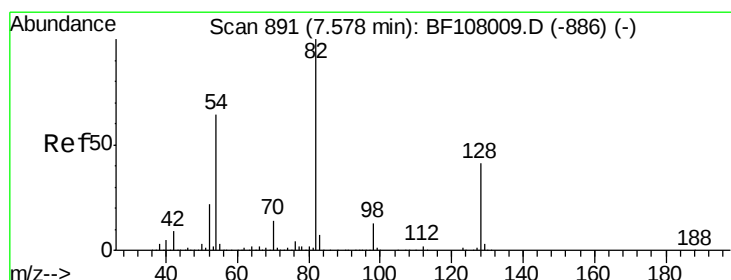
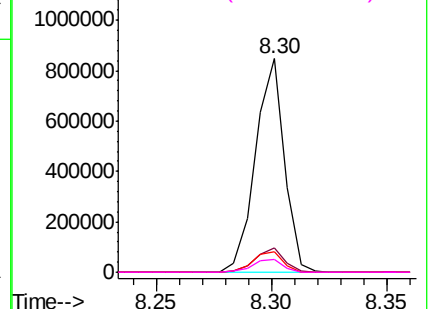


Abundance Ion 136.00 (135.70 to 136.70): E

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: 63.992 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.00 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

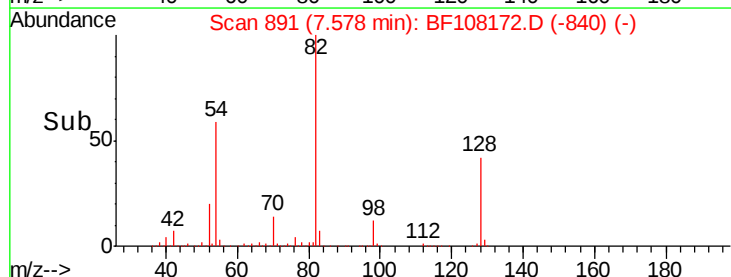
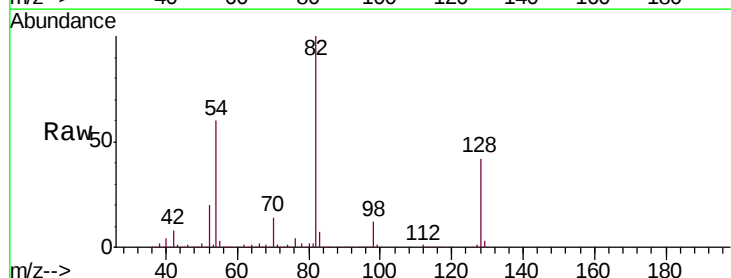
Tgt Ion: 82 Resp: 853666

Ion Ratio Lower Upper

82 100

128 41.9 36.1 54.1

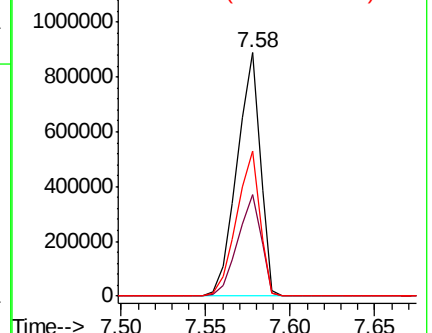
54 59.5 41.4 62.2



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: 33.449 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

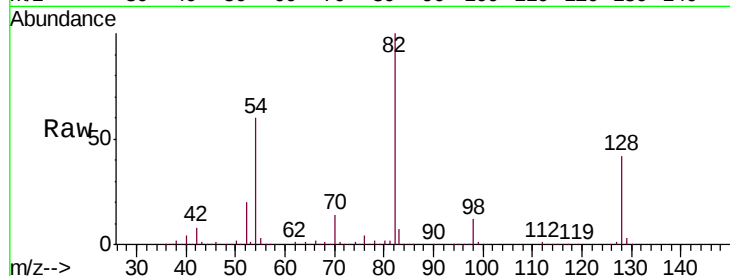
Tgt Ion: 82 Resp: 850510

Ion Ratio Lower Upper

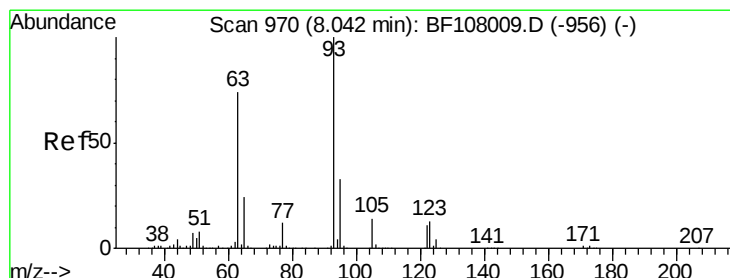
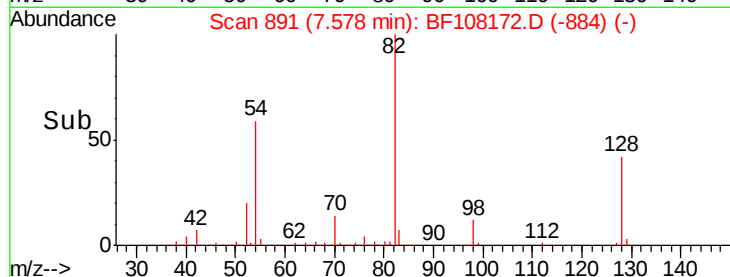
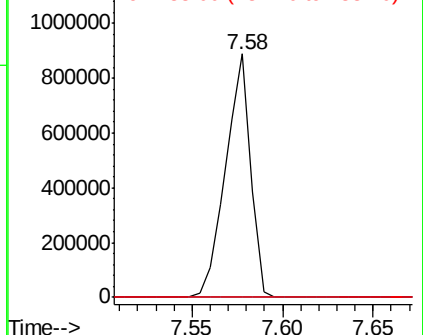
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



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



#32

Benzoic acid

Concen: 6.175 ng

RT: 8.07 min Scan# 974

Delta R.T. 0.02 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

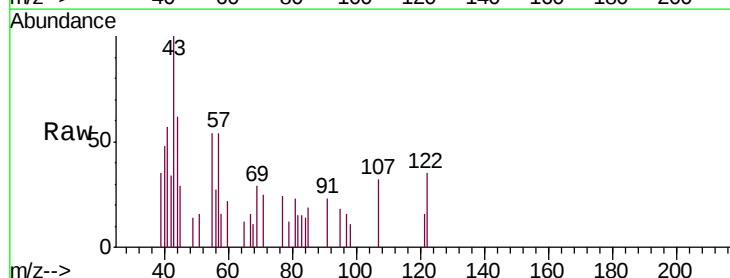
Tgt Ion: 122 Resp: 1501

Ion Ratio Lower Upper

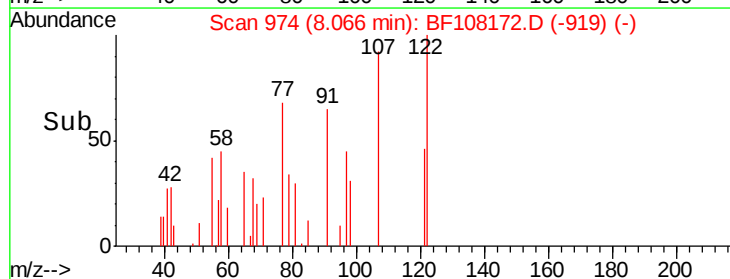
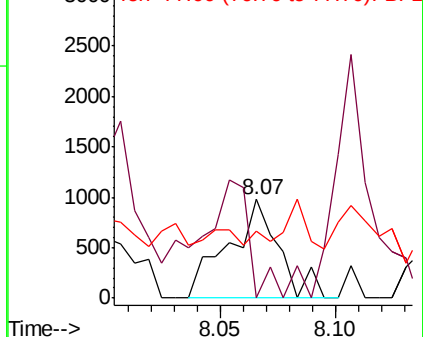
122 100

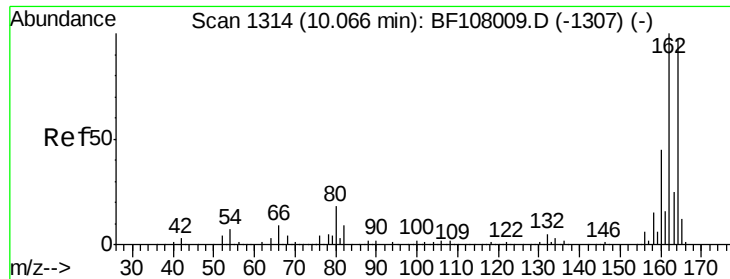
105 0.0 101.1 141.1#

77 68.0 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
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: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

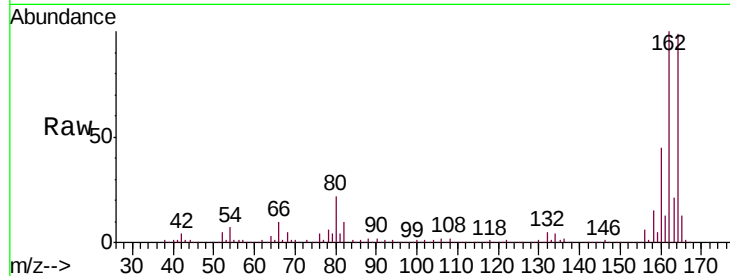
Tgt Ion:164 Resp: 385608

Ion Ratio Lower Upper

164 100

162 101.3 86.1 129.1

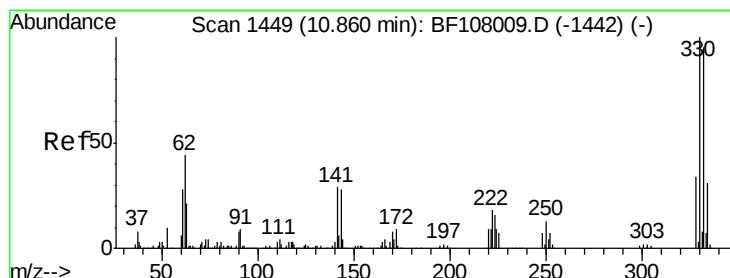
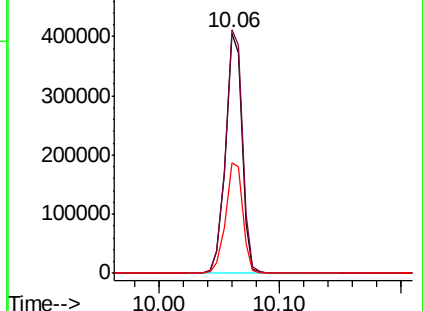
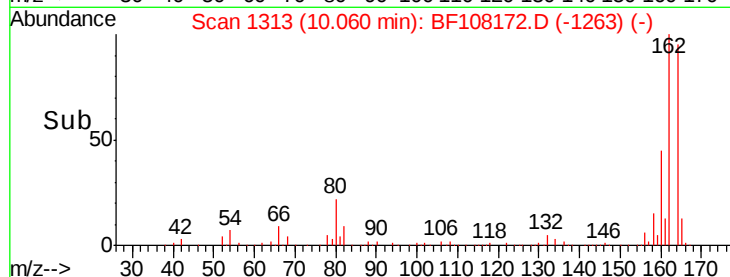
160 45.9 38.3 57.5



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: 69.174 ng

RT: 10.85 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

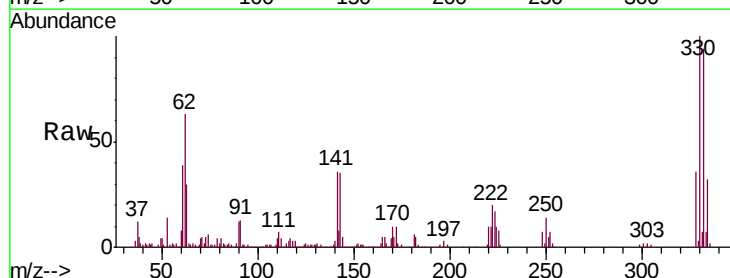
Tgt Ion:330 Resp: 266067

Ion Ratio Lower Upper

330 100

332 95.6 77.0 115.6

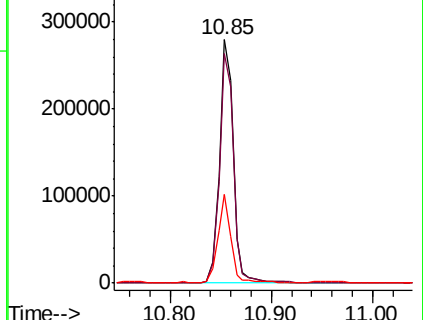
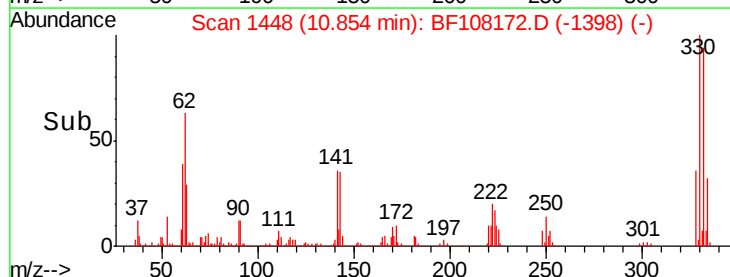
141 33.4 29.9 44.9

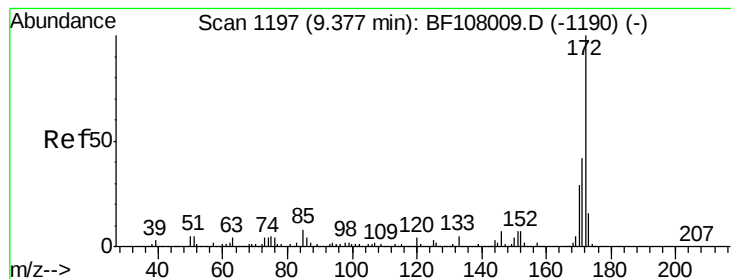


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 60.011 ng

RT: 9.37 min Scan# 1196

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

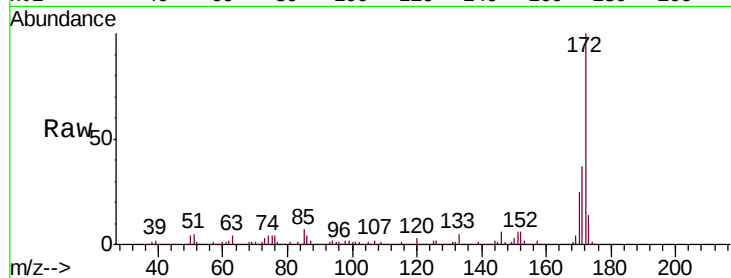
Tgt Ion:172 Resp: 1441372

Ion Ratio Lower Upper

172 100

171 37.2 29.7 44.5

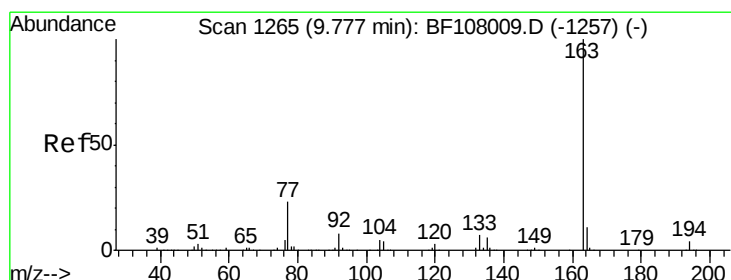
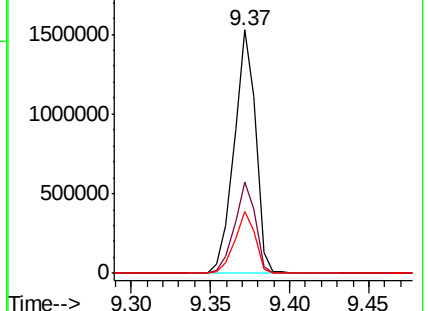
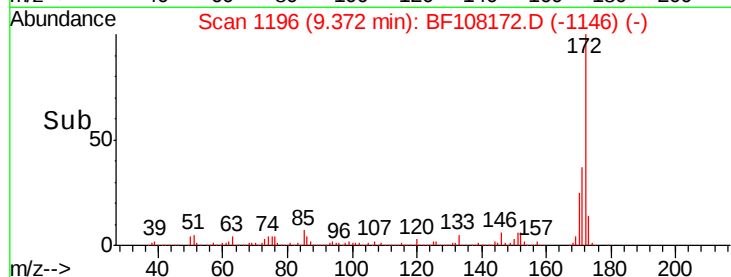
170 25.4 19.6 29.4



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: 6.653 ng

RT: 9.76 min Scan# 1262

Delta R.T. -0.02 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

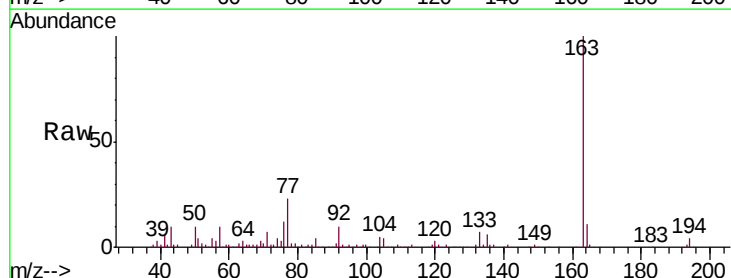
Tgt Ion:163 Resp: 178710

Ion Ratio Lower Upper

163 100

194 4.0 2.7 4.1

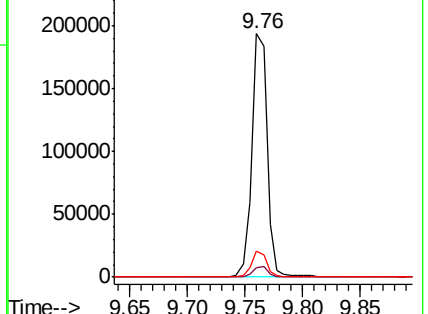
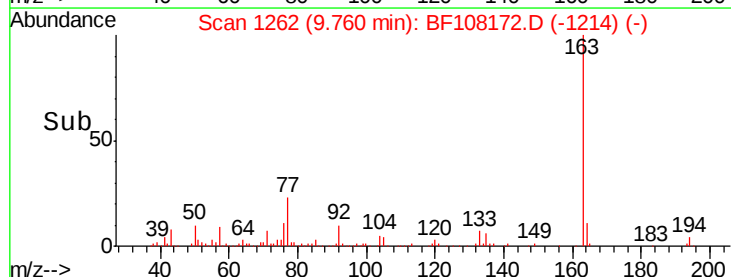
164 10.5 8.2 12.2

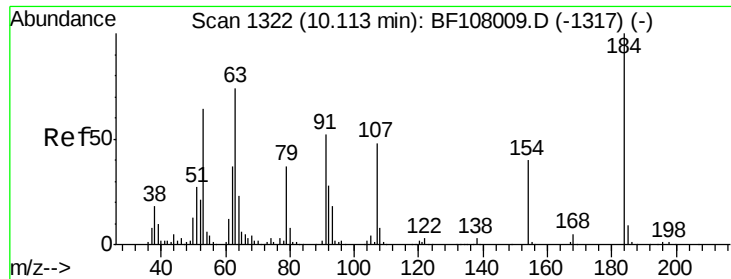


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

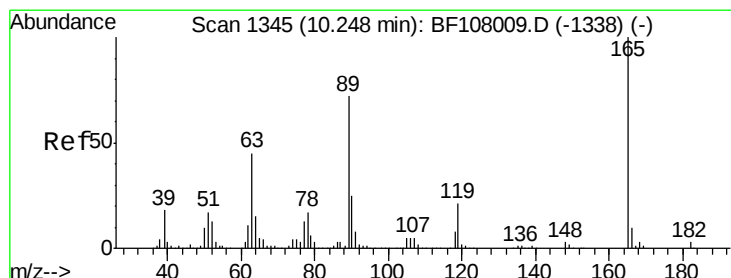
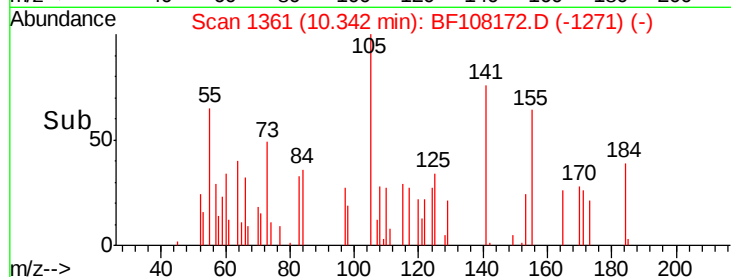
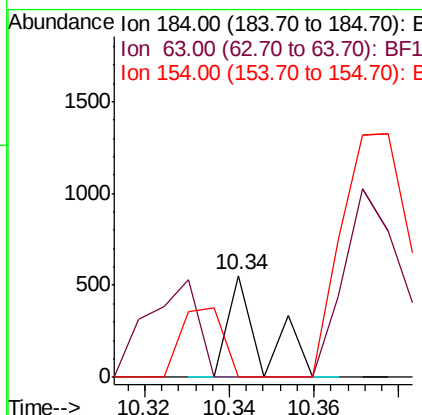
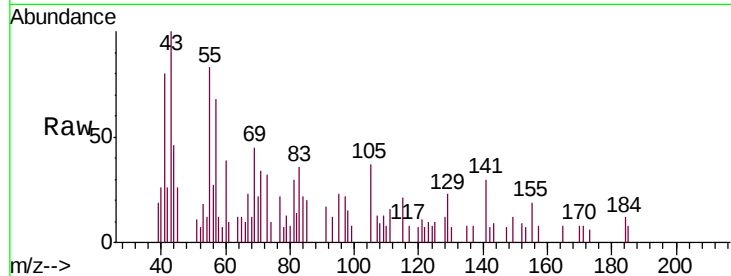




#53
2,4-Dinitrophenol
Concen: 7.156 ng
RT: 10.34 min Scan# 1361
Delta R.T. 0.23 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

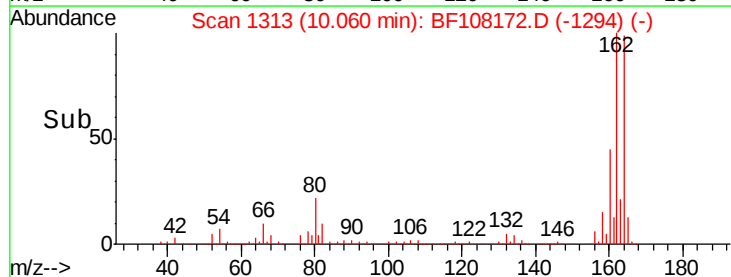
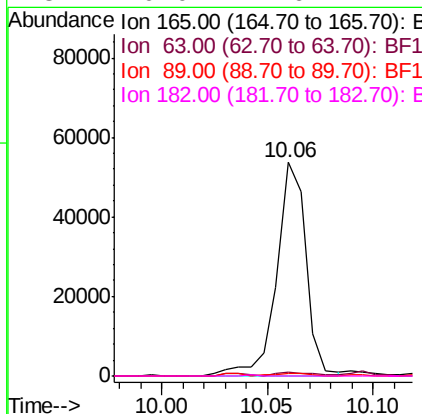
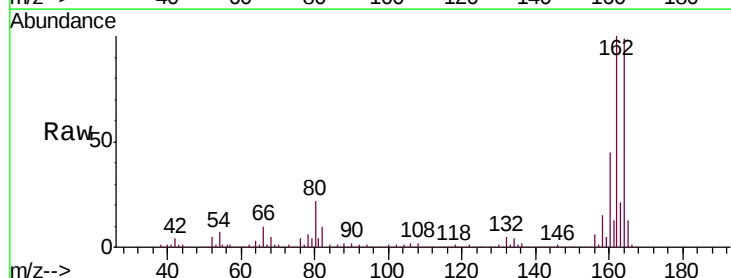
Instrument :
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RA-080918-SW-002

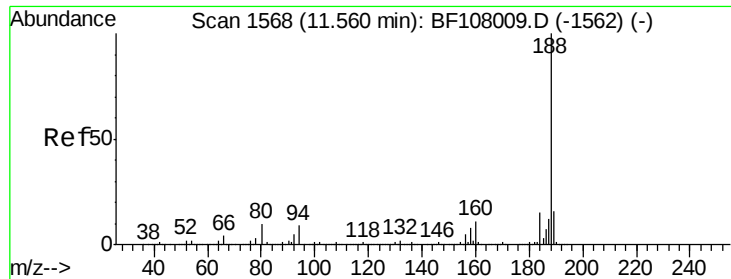
Tgt Ion:184 Resp: 313
Ion Ratio Lower Upper
184 100
63 0.0 54.2 81.2#
154 0.0 184.0 276.0#



#56
2,4-Dinitrotoluene
Concen: 7.198 ng
RT: 10.06 min Scan# 1313
Delta R.T. -0.19 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Tgt Ion:165 Resp: 52068
Ion Ratio Lower Upper
165 100
63 1.5 36.4 54.6#
89 1.4 57.8 86.6#
182 0.0 1.6 2.4#

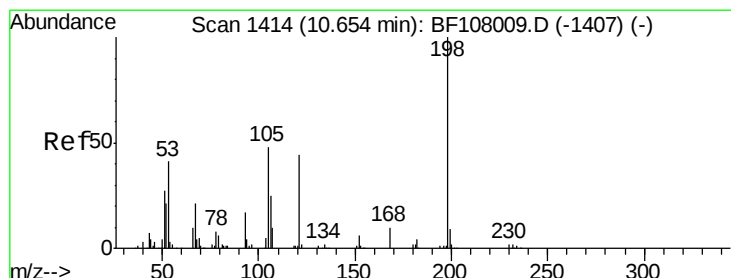
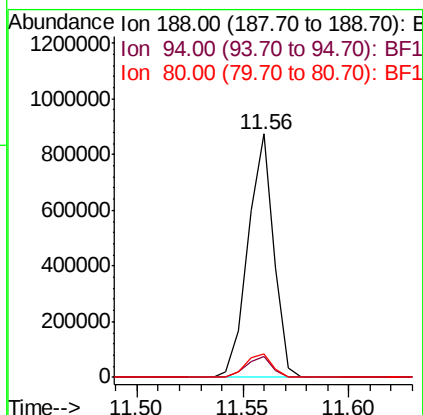
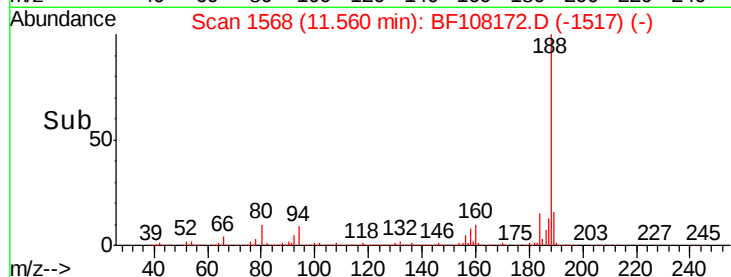
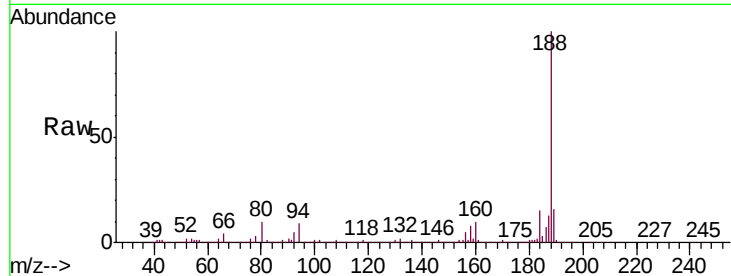




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.56 min Scan# 1568
Delta R.T. 0.00 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

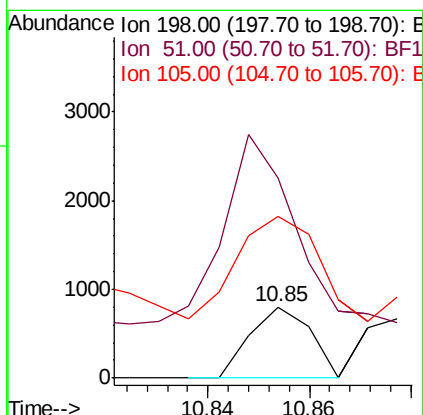
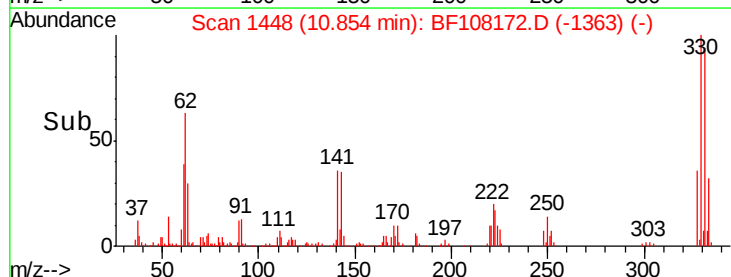
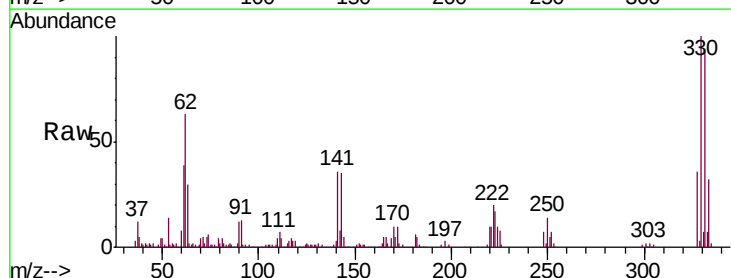
Instrument :
BNA_F
ClientSampleId :
RA-080918-SW-002

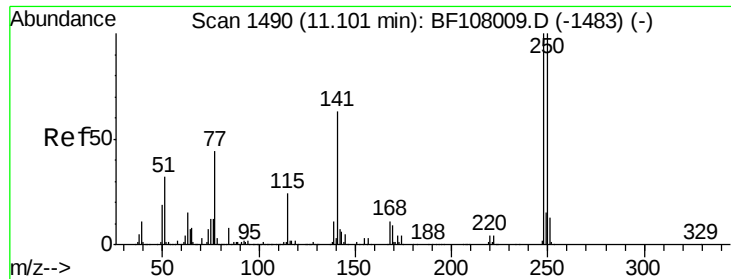
Tgt Ion:188 Resp: 740125
Ion Ratio Lower Upper
188 100
94 8.6 8.5 12.7
80 9.7 9.2 13.8



#64
4,6-Dinitro-2-methylphenol
Concen: 5.567 ng
RT: 10.85 min Scan# 1448
Delta R.T. 0.20 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Tgt Ion:198 Resp: 653
Ion Ratio Lower Upper
198 100
51 282.9 37.7 77.7#
105 227.8 36.3 76.3#

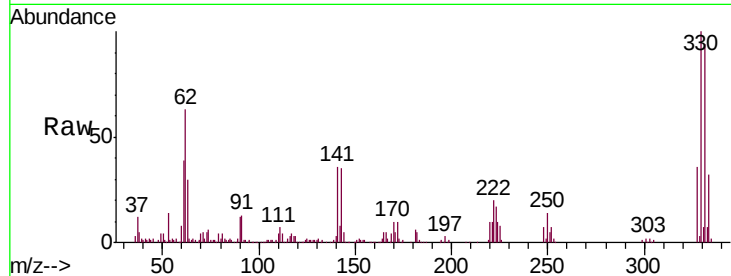




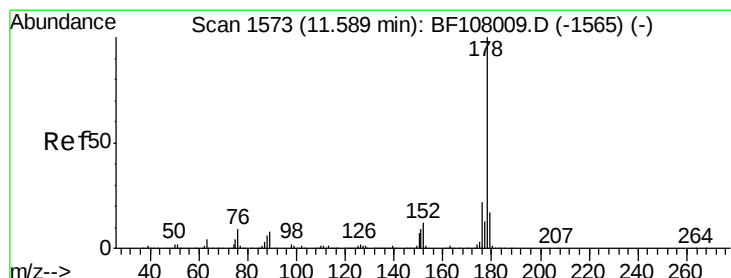
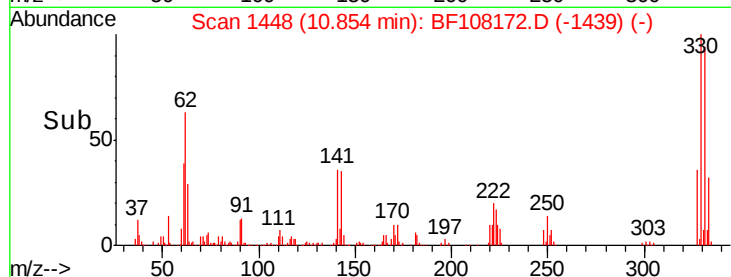
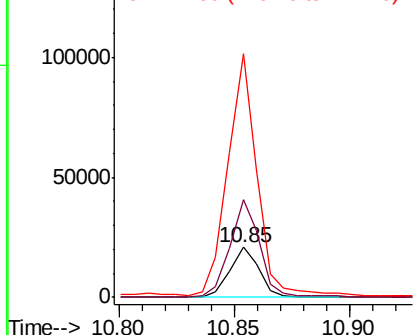
#66
4-Bromophenyl-phenylether
Concen: 2.300 ng
RT: 10.85 min Scan# 1448
Delta R.T. -0.25 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Instrument :
BNA_F
ClientSampleId :
RA-080918-SW-002

Tgt Ion: 248 Resp: 18499
Ion Ratio Lower Upper
248 100
250 193.4 76.9 115.3#
141 484.7 74.4 111.6#

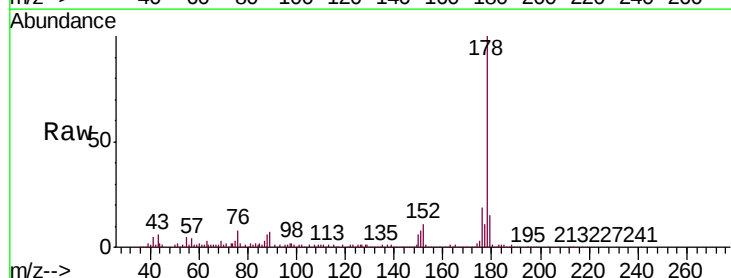


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

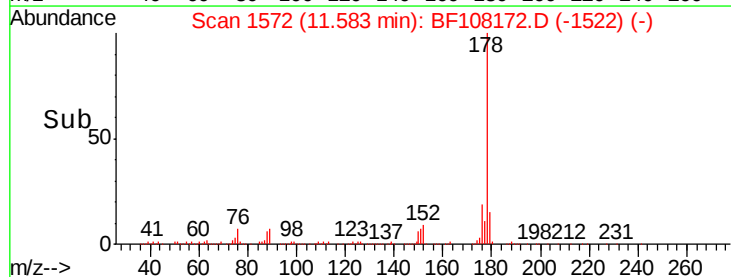
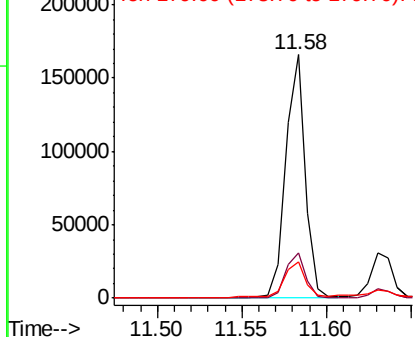


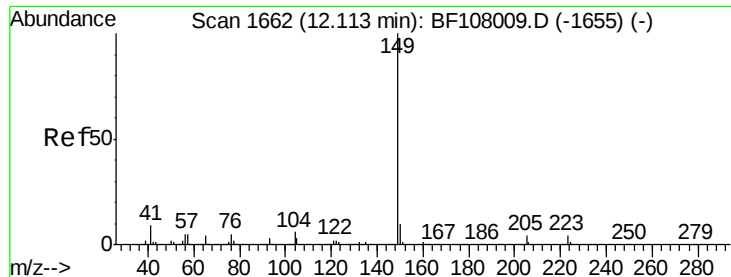
#70
Phenanthrene
Concen: 3.864 ng
RT: 11.58 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Tgt Ion: 178 Resp: 134880
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 15.1 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 4.679 ng

RT: 12.11 min Scan# 1661

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

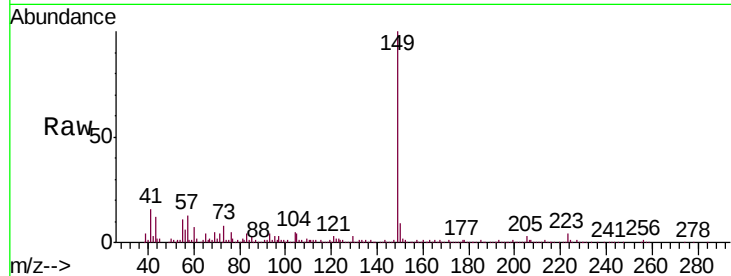
Tgt Ion:149 Resp: 168479

Ion Ratio Lower Upper

149 100

150 9.4 7.8 11.6

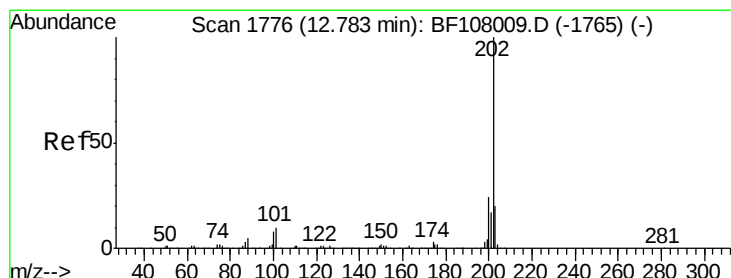
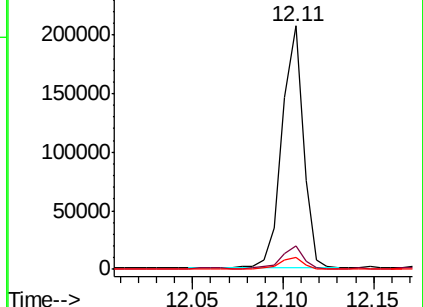
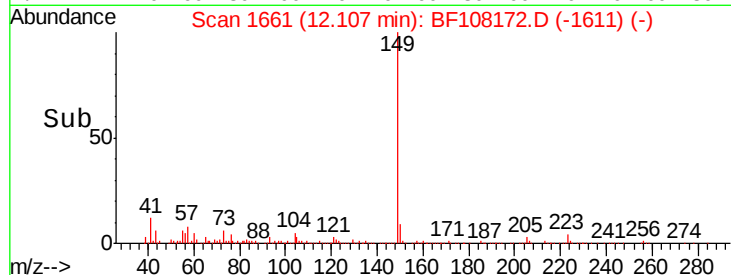
104 4.8 3.8 5.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 5.207 ng

RT: 12.78 min Scan# 1775

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

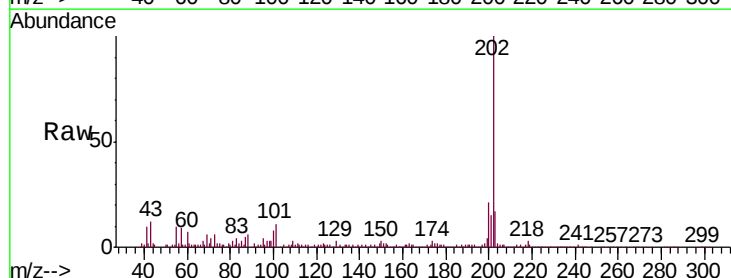
Tgt Ion:202 Resp: 198379

Ion Ratio Lower Upper

202 100

101 10.9 0.0 34.1

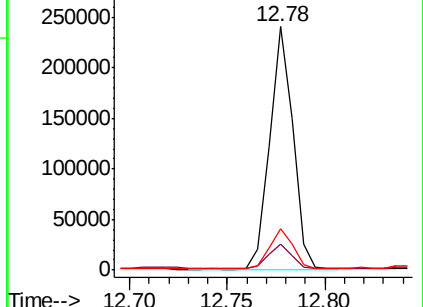
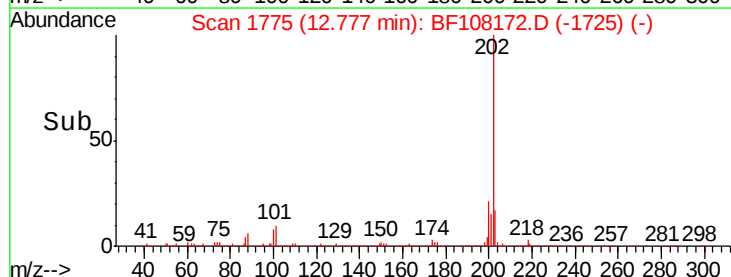
203 17.1 0.0 38.1

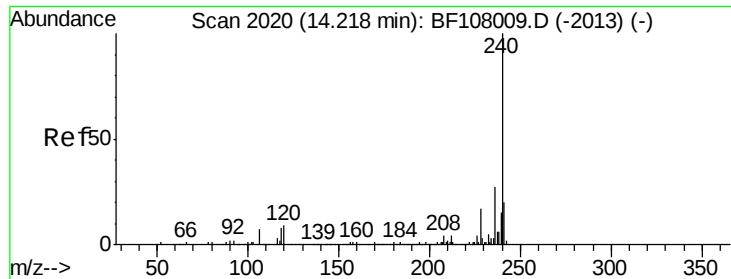


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.21 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

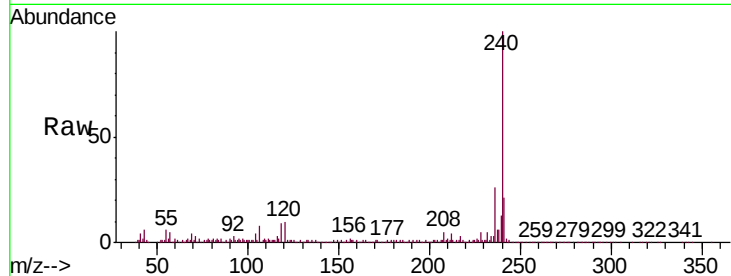
Tgt Ion:240 Resp: 414916

Ion Ratio Lower Upper

240 100

120 10.4 9.5 14.3

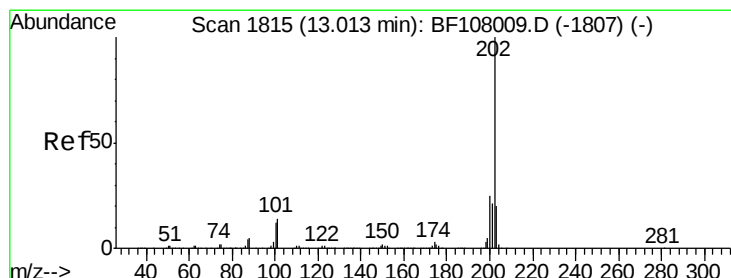
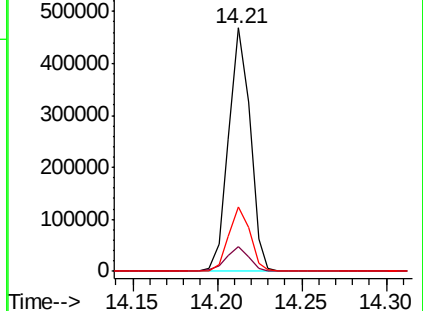
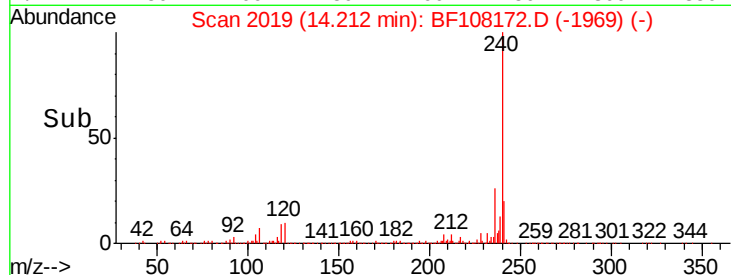
236 26.3 20.7 31.1



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: 6.506 ng

RT: 13.01 min Scan# 1815

Delta R.T. 0.00 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

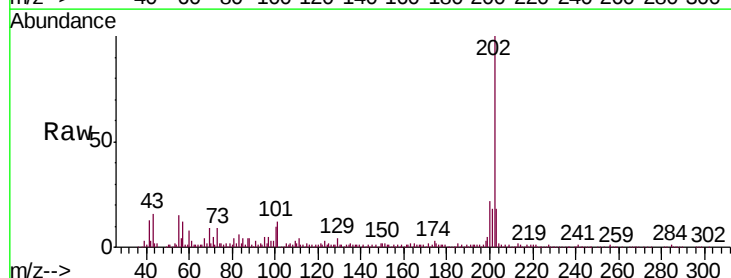
Tgt Ion:202 Resp: 170908

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

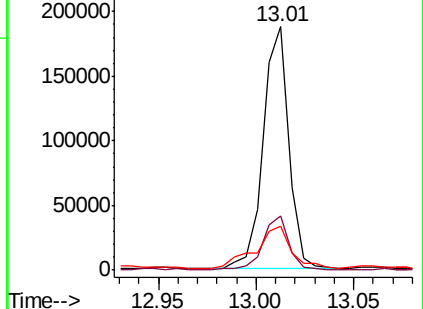
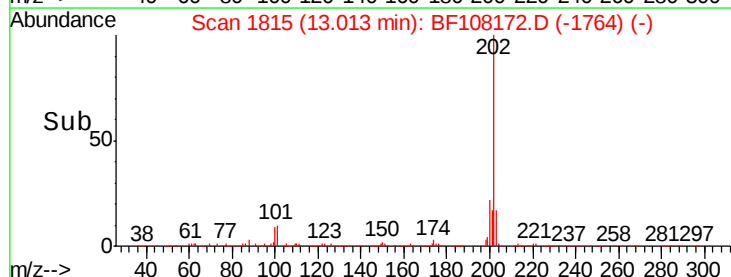
203 18.1 14.3 21.5

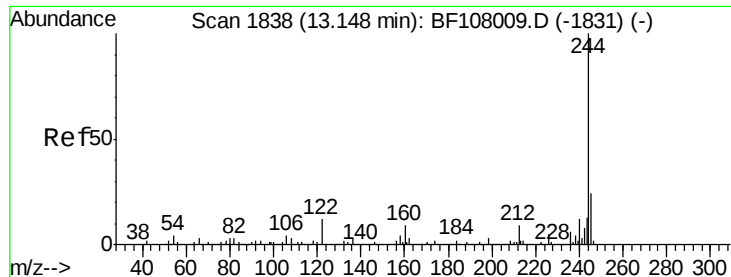


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 75.656 ng

RT: 13.15 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

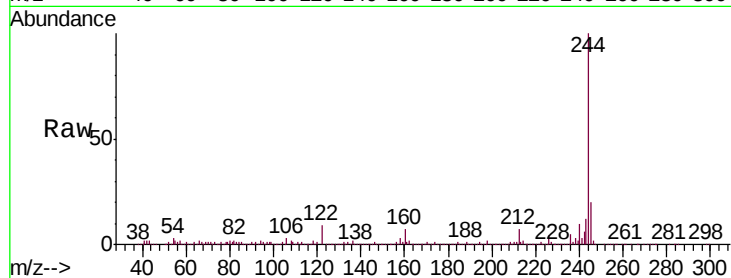
Tgt Ion:244 Resp: 1234621

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

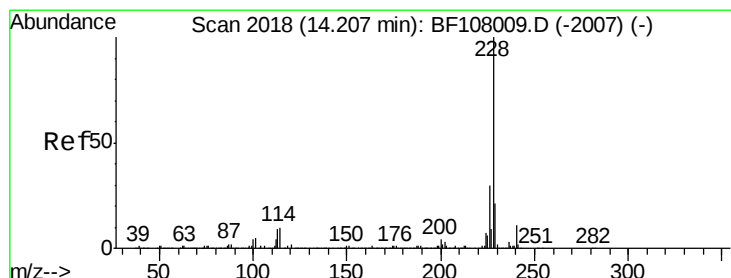
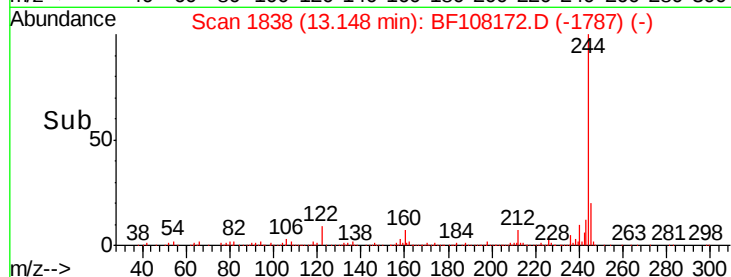
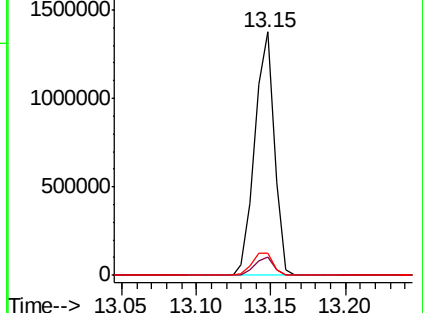
122 9.1 11.0 16.4#



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: 3.967 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

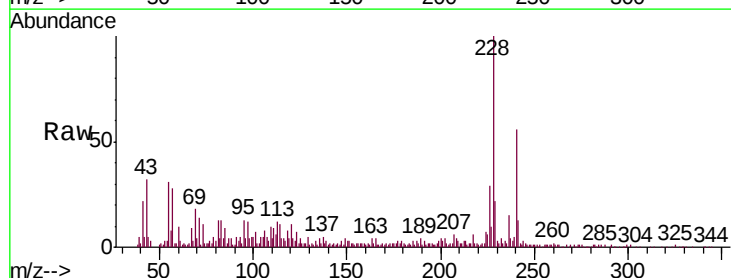
Tgt Ion:228 Resp: 94472

Ion Ratio Lower Upper

228 100

226 28.6 22.6 33.8

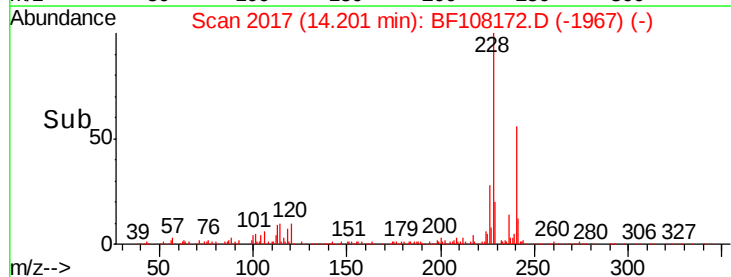
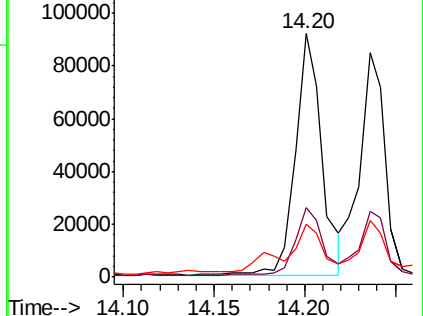
229 21.9 15.8 23.6

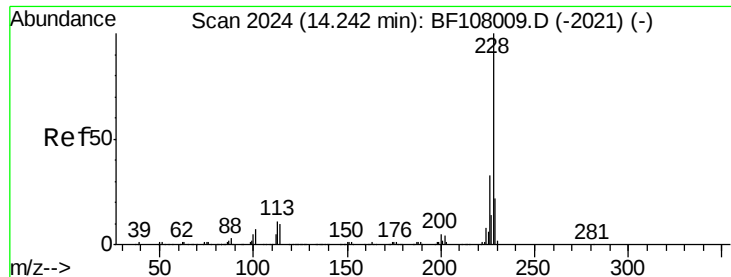


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.328 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.04 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002

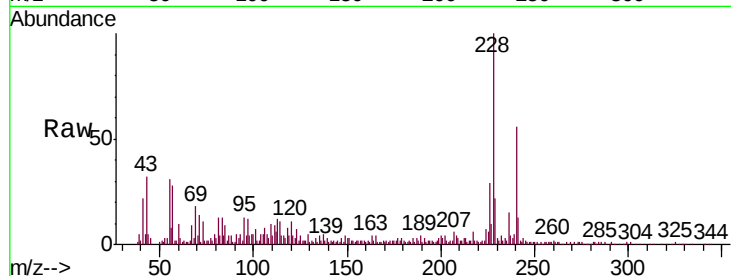
Tgt Ion:228 Resp: 94472

Ion Ratio Lower Upper

228 100

226 28.6 25.0 37.6

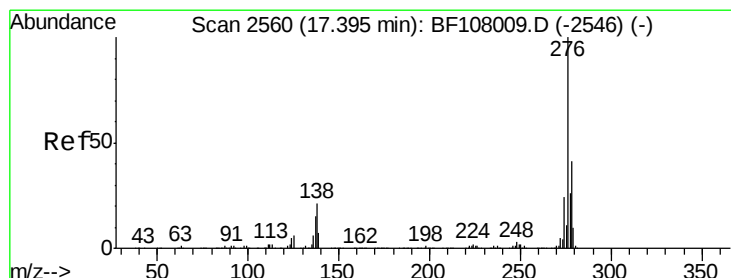
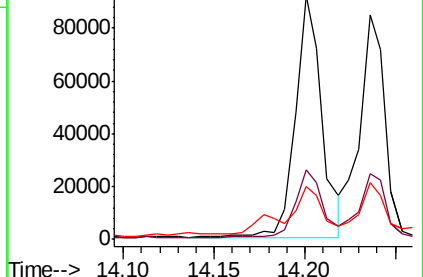
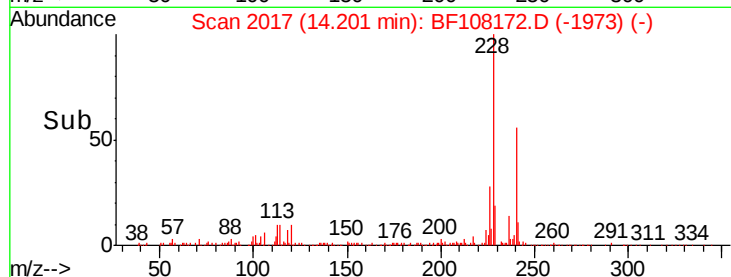
229 21.9 16.2 24.4



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: 3.298 ng

RT: 17.39 min Scan# 2559

Delta R.T. -0.01 min

Lab File: BF108172.D

Acq: 15 Aug 2018 18:21

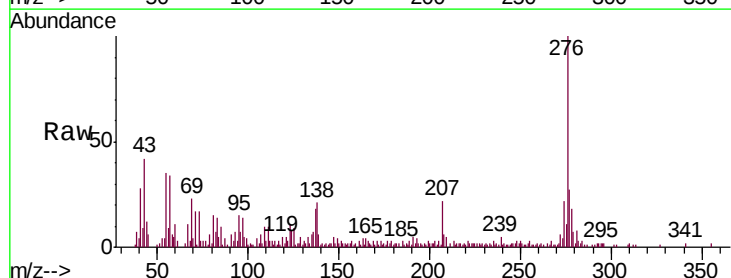
Tgt Ion:276 Resp: 62388

Ion Ratio Lower Upper

276 100

138 21.9 25.0 37.6#

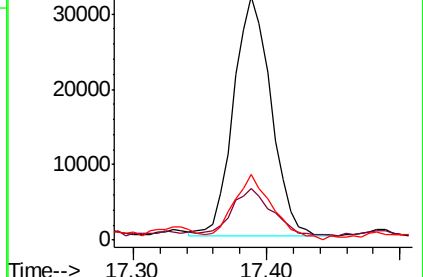
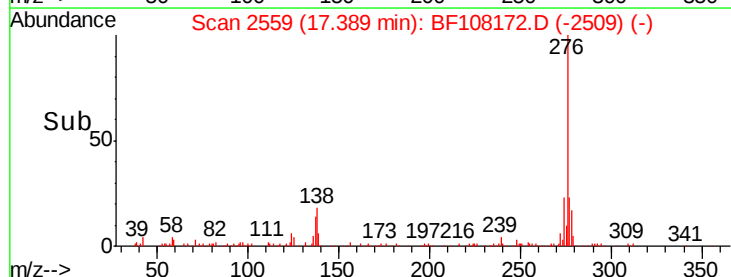
277 28.2 20.1 30.1

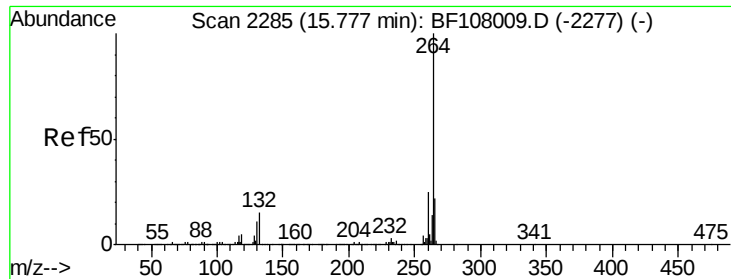


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

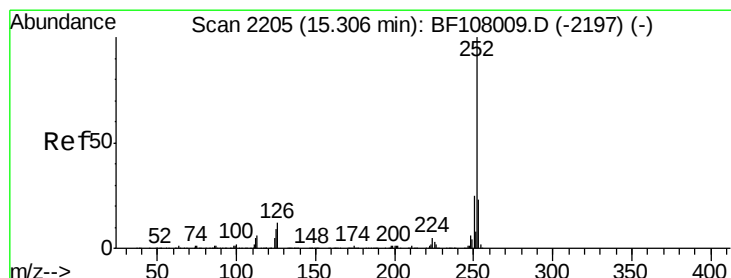
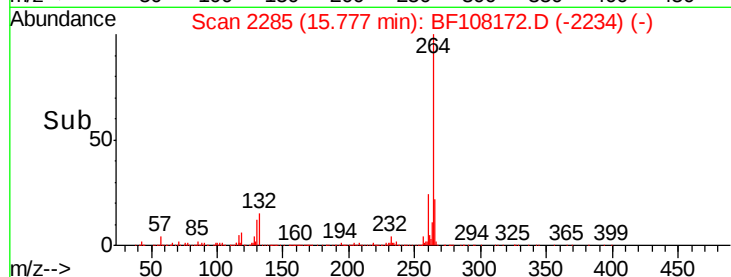
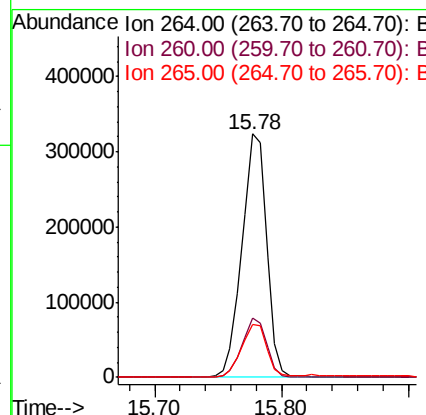
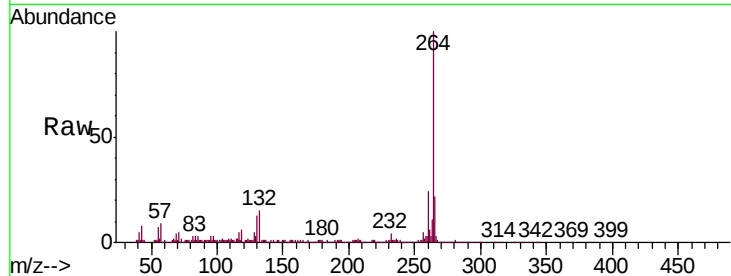




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.78 min Scan# 2285
Delta R.T. 0.00 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

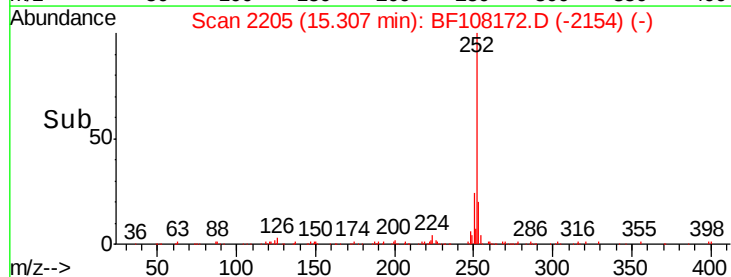
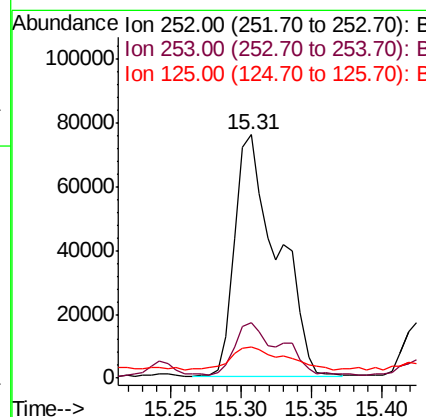
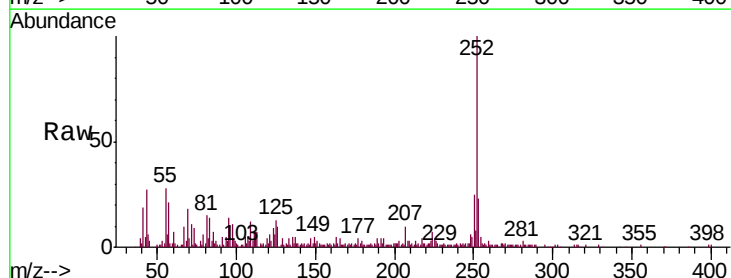
Instrument :
BNA_F
ClientSampleId :
RA-080918-SW-002

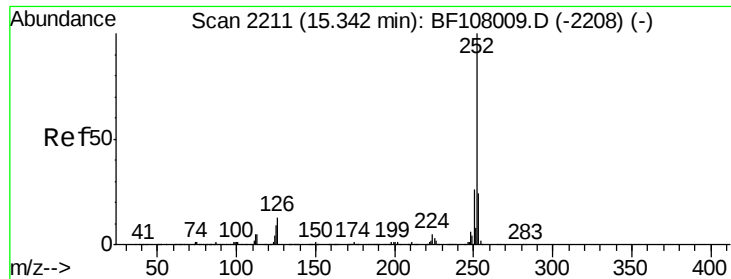
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.8	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 6.147 ng
RT: 15.31 min Scan# 2205
Delta R.T. 0.00 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	13.0	9.0	13.6

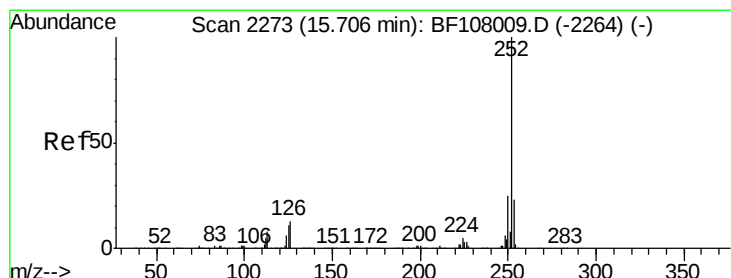
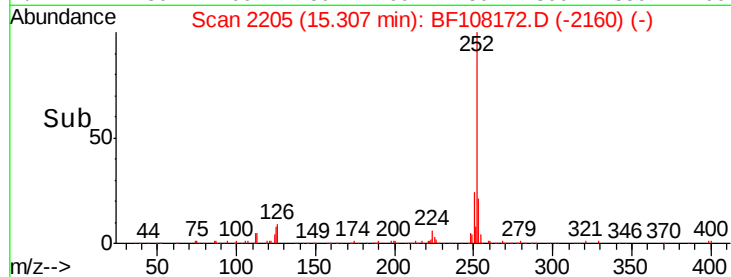
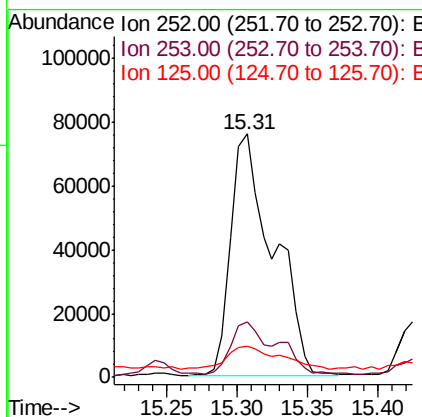
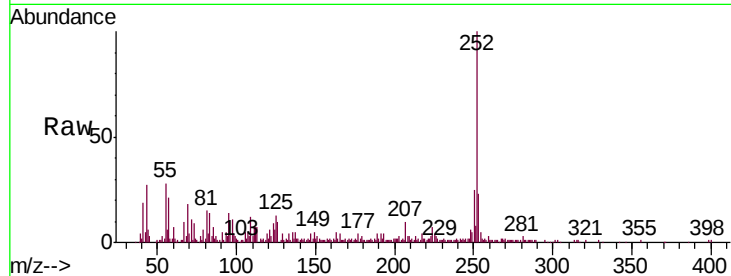




#88
Benzo(k)fluoranthene
Concen: 6.687 ng
RT: 15.31 min Scan# 2205
Delta R.T. -0.04 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

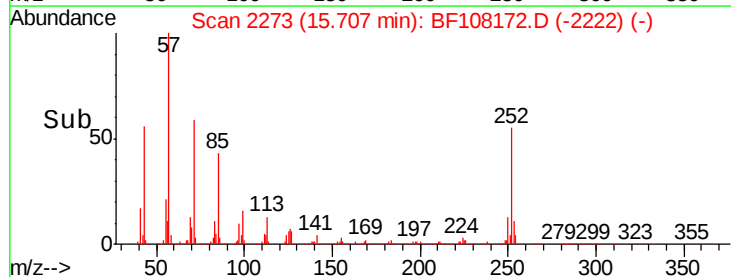
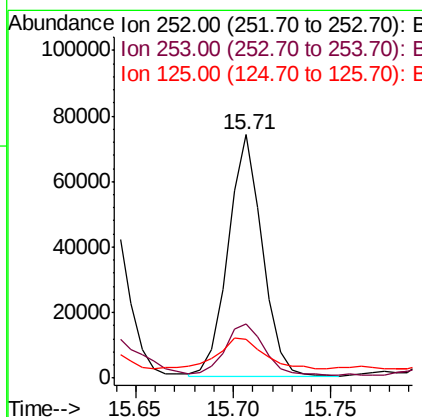
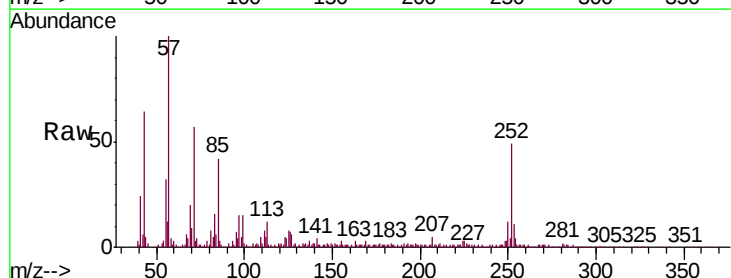
Instrument :
BNA_F
ClientSampleId :
RA-080918-SW-002

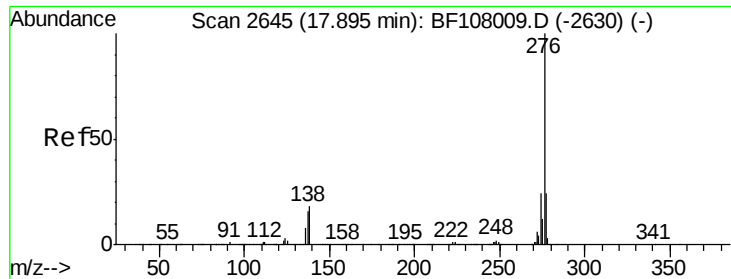
Tgt Ion: 252 Resp: 160551
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 13.0 10.2 15.2



#89
Benzo(a)pyrene
Concen: 3.781 ng
RT: 15.71 min Scan# 2273
Delta R.T. 0.00 min
Lab File: BF108172.D
Acq: 15 Aug 2018 18:21

Tgt Ion: 252 Resp: 88440
Ion Ratio Lower Upper
252 100
253 22.5 17.1 25.7
125 16.2 9.8 14.6#





#91

Benzo(g,h,i)perylene

Concen: 3.134 ng

RT: 17.88 min Scan# 2643

Delta R.T. -0.01 min

Lab File: BF108172.D

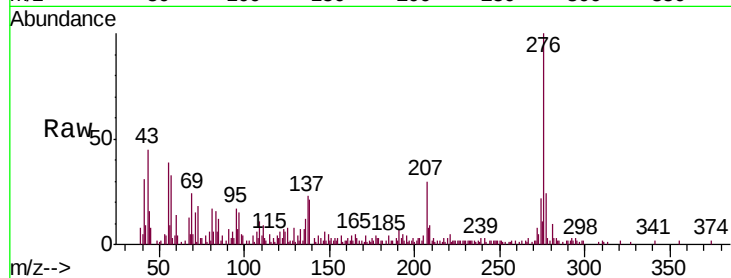
Acq: 15 Aug 2018 18:21

Instrument :

BNA_F

ClientSampleId :

RA-080918-SW-002



Tgt Ion:	276	Resp:	59724
Ion	Ratio	Lower	Upper
276	100		
277	24.4	17.9	26.9
138	21.1	21.8	32.8#

