

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082118\
 Data File : BF108363.D
 Acq On : 22 Aug 2018 3:04
 Operator : JU/SJ
 Sample : J4271-09 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-082018-A

Quant Time: Aug 22 03:33:36 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 21 15:20:21 2018
 Response via : Initial Calibration

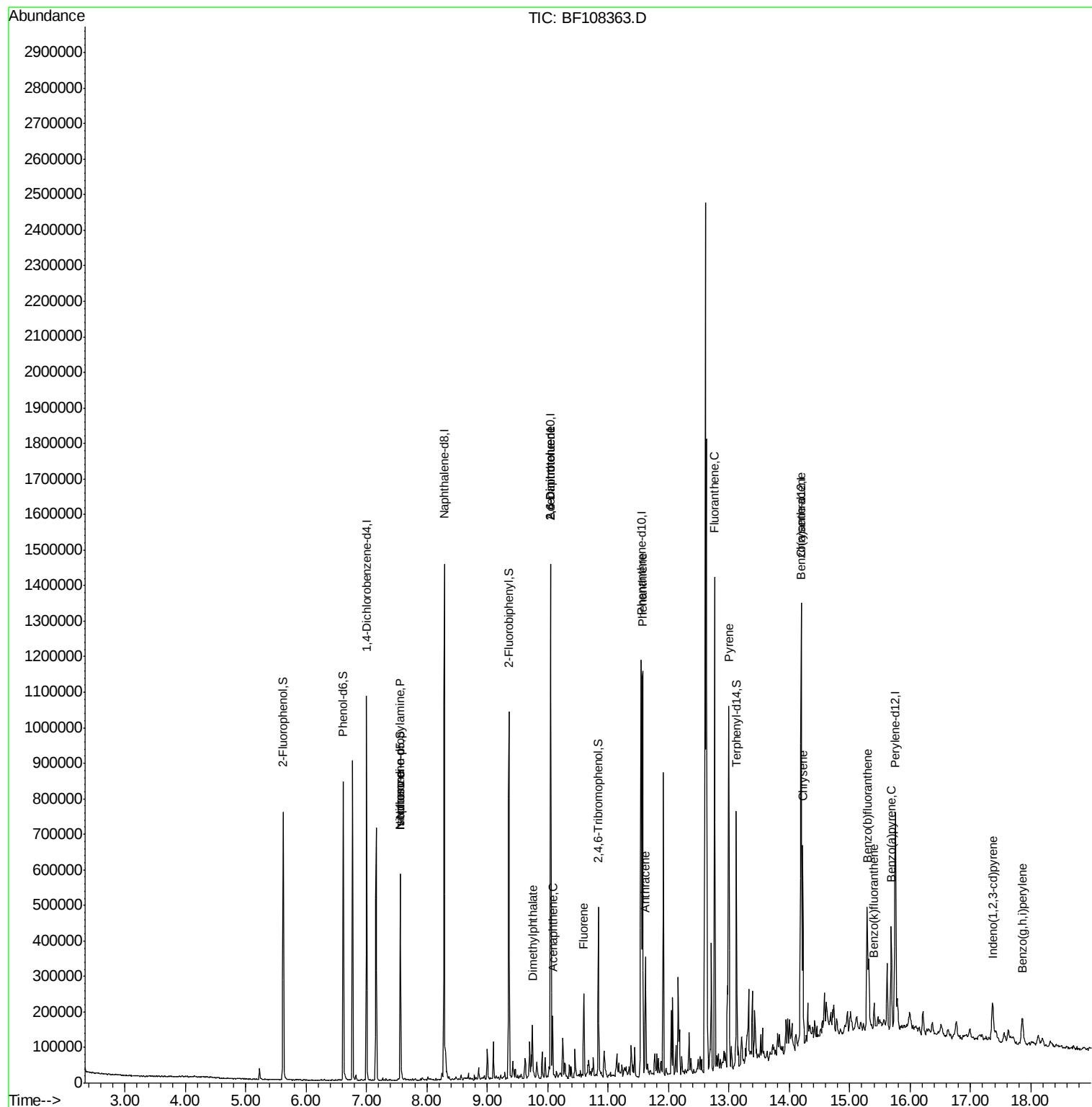
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	159924	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	596565	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	271361	20.00	ng	-0.02
63) Phenanthrene-d10	11.55	188	453718	20.00	ng	-0.01
75) Chrysene-d12	14.20	240	365813	20.00	ng	-0.02
86) Perylene-d12	15.76	264	307557	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	197797	22.39	ng	0.00
7) Phenol-d6	6.62	99	270008	23.00	ng	-0.01
23) Nitrobenzene-d5	7.56	82	166681	15.59	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	52609	19.44	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	300111	17.76	ng	-0.02
78) Terphenyl-d14	13.13	244	242436	16.85	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.56	70	22799	2.872	ng	# 84
25) Isophorone	7.56	82	166679	8.180	ng	# 64
49) Dimethylphthalate	9.75	163	43734	2.314	ng	# 98
50) 2,6-Dinitrotoluene	10.05	165	35453	8.965	ng	# 26
51) Acenaphthene	10.08	154	32135	2.099	ng	97
56) 2,4-Dinitrotoluene	10.05	165	35453	6.964	ng	# 23
57) Fluorene	10.60	166	68624	3.908	ng	99
70) Phenanthrene	11.57	178	436735	20.408	ng	99
71) Anthracene	11.62	178	130217	5.937	ng	98
74) Fluoranthene	12.77	202	505402	21.639	ng	96
77) Pyrene	13.00	202	455564	19.670	ng	100
80) Benzo(a)anthracene	14.19	228	236259	11.254	ng	99
82) Chrysene	14.22	228	181536	9.432	ng	98
85) Indeno(1,2,3-cd)pyrene	17.37	276	69451	4.165	ng	# 89
87) Benzo(b)fluoranthene	15.29	252	286105	15.568	ng	96
88) Benzo(k)fluoranthene	15.41	252	35733	2.115	ng	98
89) Benzo(a)pyrene	15.69	252	152390	9.260	ng	97
91) Benzo(g,h,i)perylene	17.85	276	63716	4.752	ng	# 90

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

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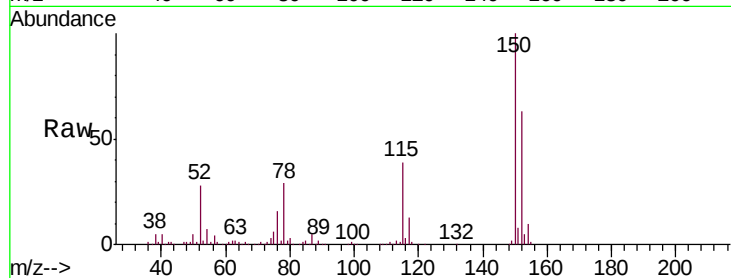


#1

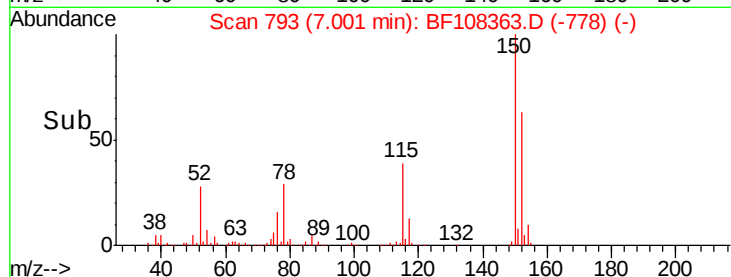
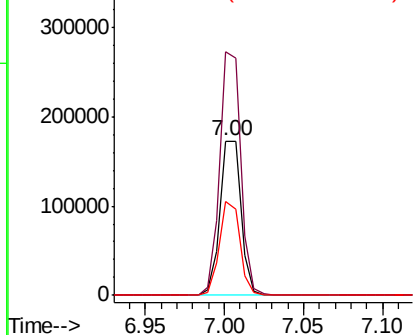
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108363.D
Acq: 22 Aug 2018 3:04

Instrument :
BNA_F
ClientSampleId :
HR-06-082018-A

Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	61.0	50.1	75.1



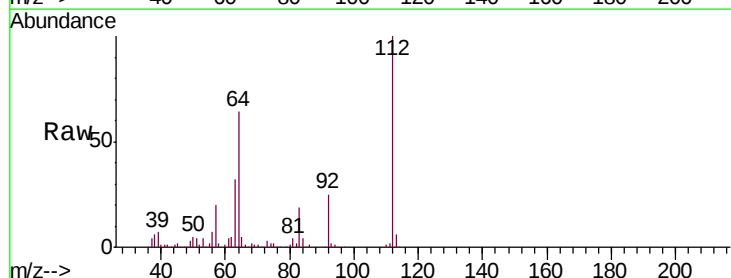
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



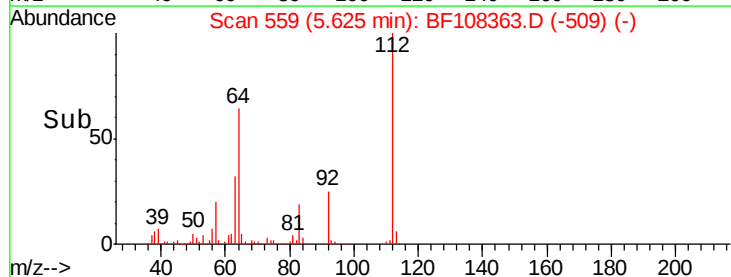
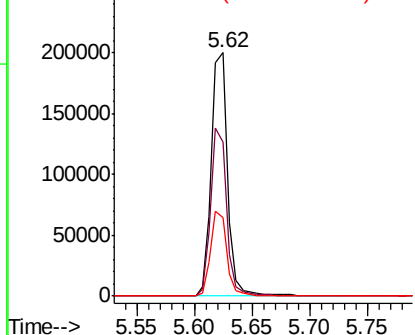
#5

2-Fluorophenol
Concen: 22.392 ng
RT: 5.62 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF108363.D
Acq: 22 Aug 2018 3:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	47.9	71.9
63	32.4	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: 23.002 ng

RT: 6.62 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

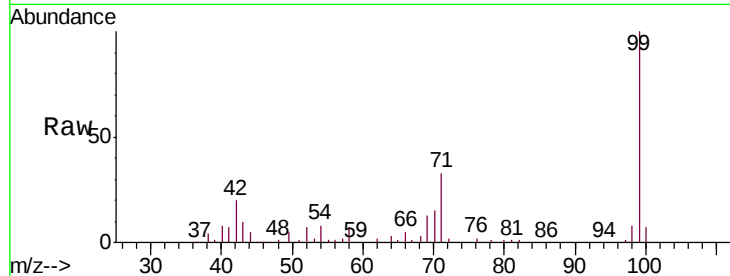
Tgt Ion: 99 Resp: 270008

Ion Ratio Lower Upper

99 100

42 20.3 14.5 21.7

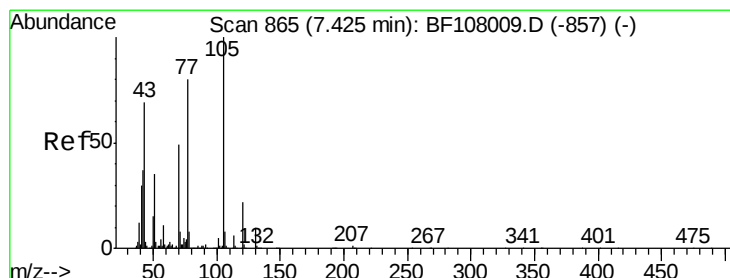
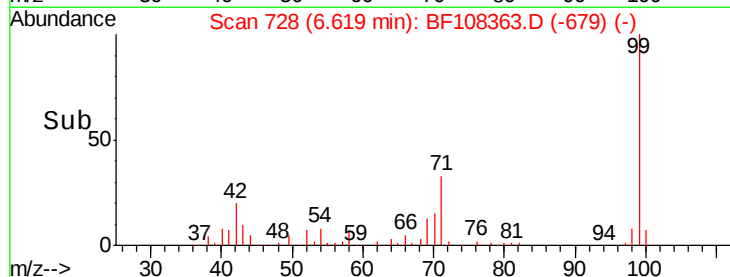
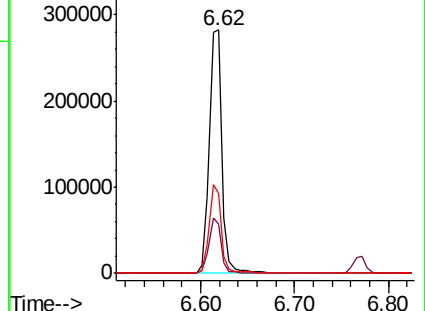
71 32.8 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.872 ng

RT: 7.56 min Scan# 888

Delta R.T. 0.14 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Tgt Ion: 70 Resp: 22799

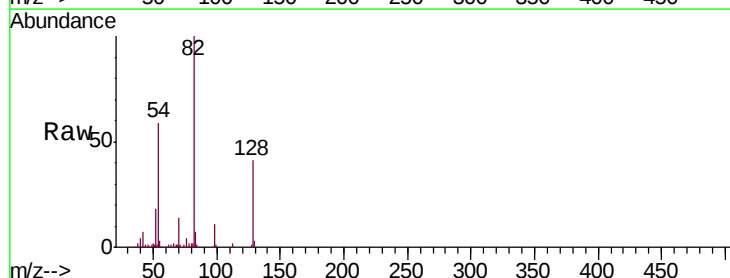
Ion Ratio Lower Upper

70 100

42 55.2 47.5 71.3

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

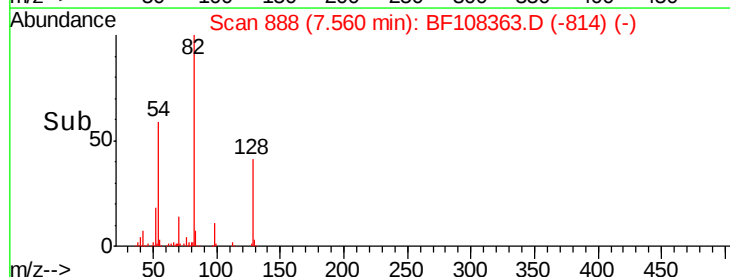
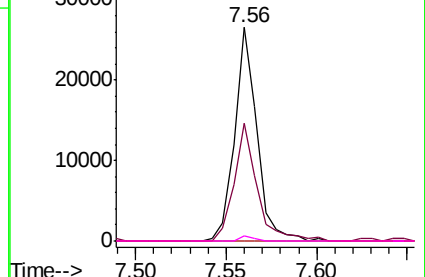


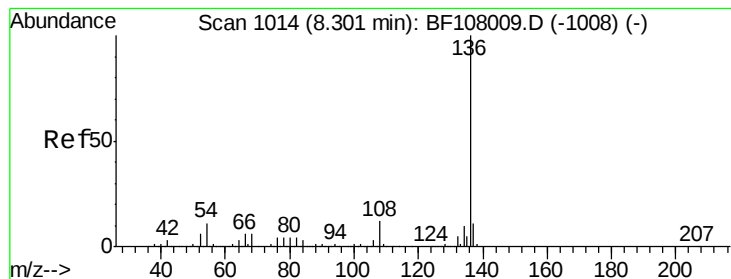
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

Tgt Ion: 136 Resp: 596565

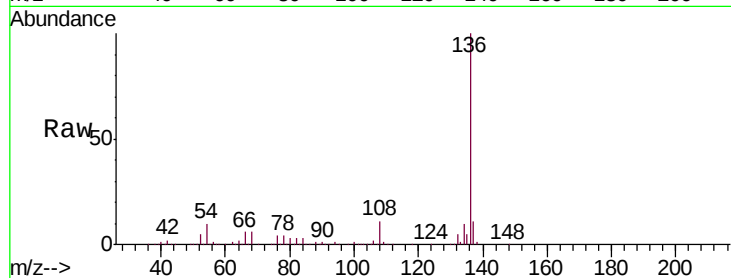
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 9.7 6.6 9.8

68 5.9 5.0 7.4

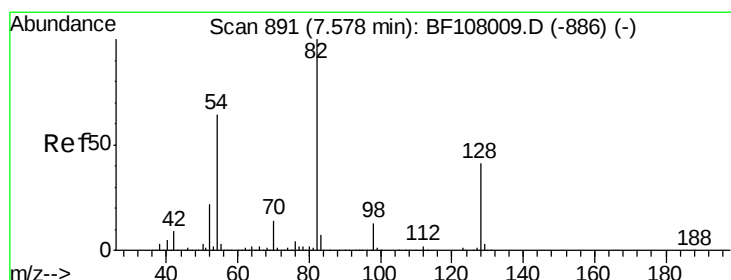
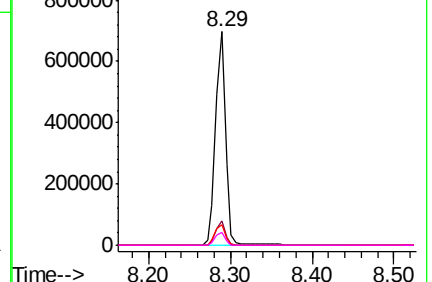
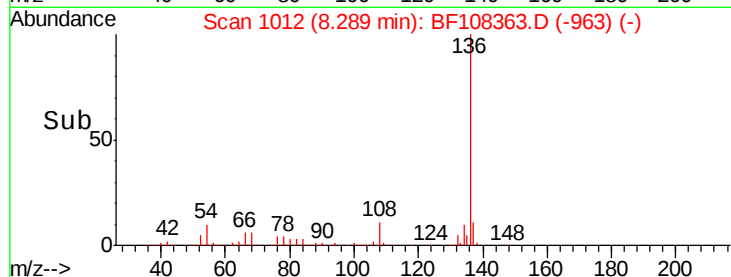


Abundance Ion 136.00 (135.70 to 136.70): E

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: 15.591 ng

RT: 7.56 min Scan# 888

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

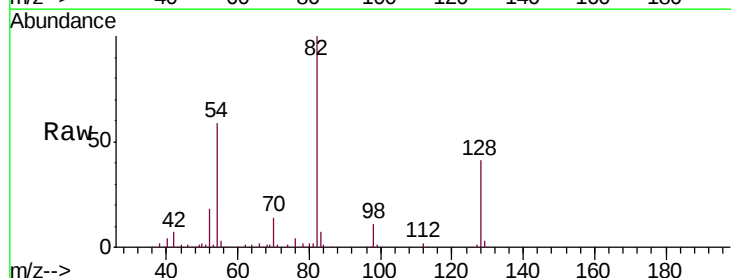
Tgt Ion: 82 Resp: 166681

Ion Ratio Lower Upper

82 100

128 41.1 36.1 54.1

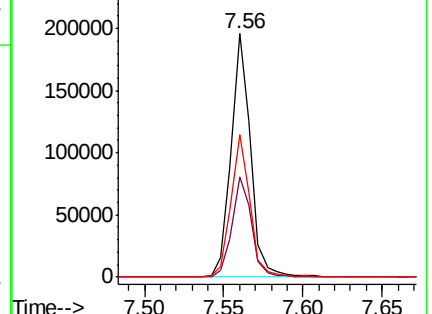
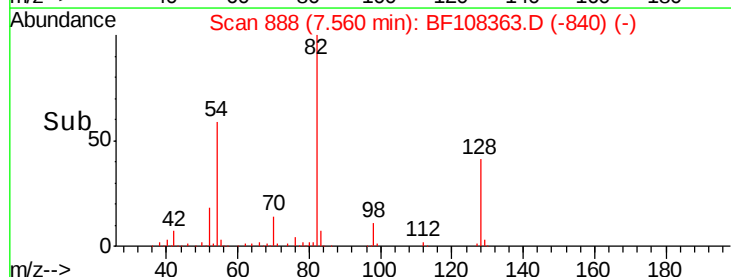
54 58.7 41.4 62.2



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: 8.180 ng

RT: 7.56 min Scan# 888

Delta R.T. -0.28 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

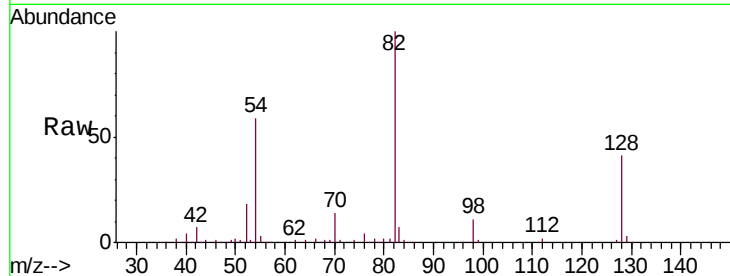
Tgt Ion: 82 Resp: 166679

Ion Ratio Lower Upper

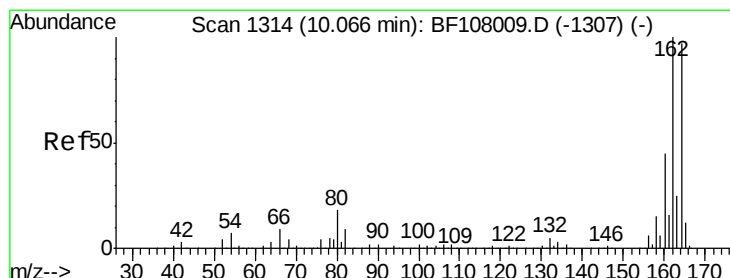
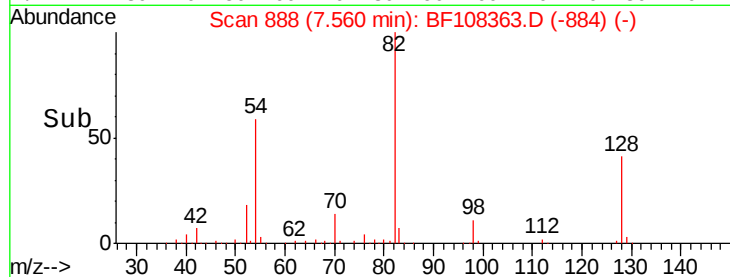
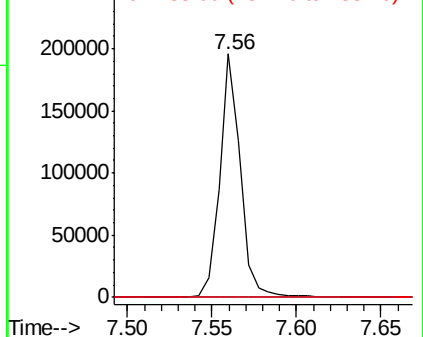
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.05 min Scan# 1311

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

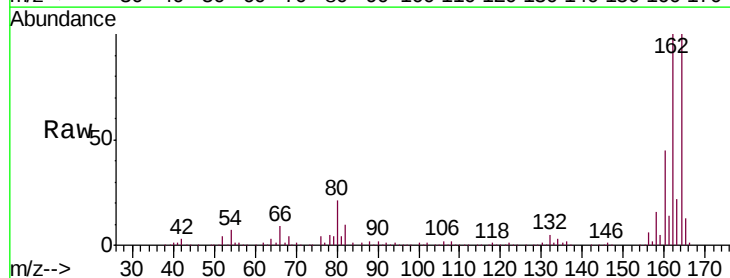
Tgt Ion: 164 Resp: 271361

Ion Ratio Lower Upper

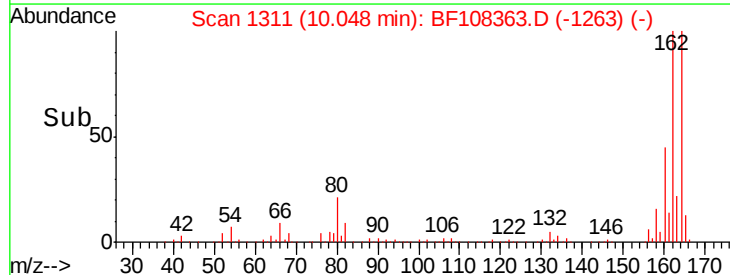
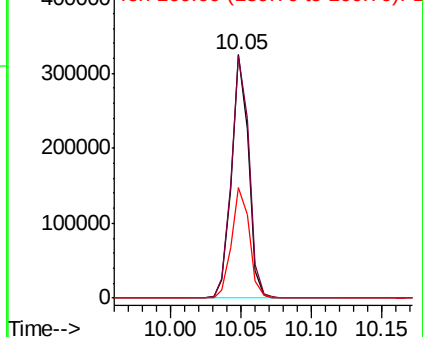
164 100

162 99.7 86.1 129.1

160 45.2 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

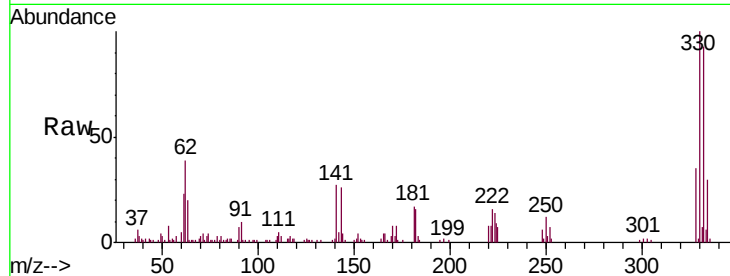




#41
 2,4,6-Tribromophenol
 Concen: 19.436 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF108363.D
 Acq: 22 Aug 2018 3:04

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-082018-A

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	77.0	115.6
141	34.7	29.9	44.9

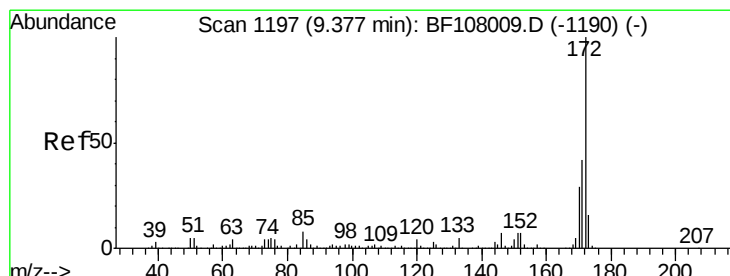
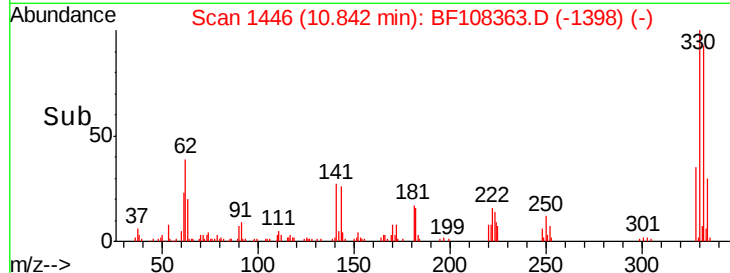
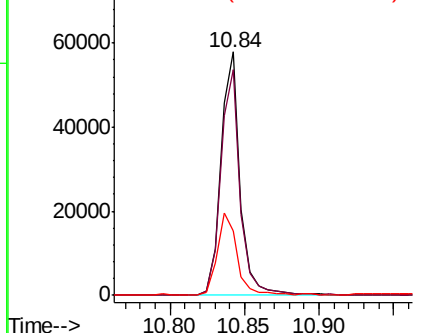


Abundance

Ion 329.80 (329.50 to 330.50): E

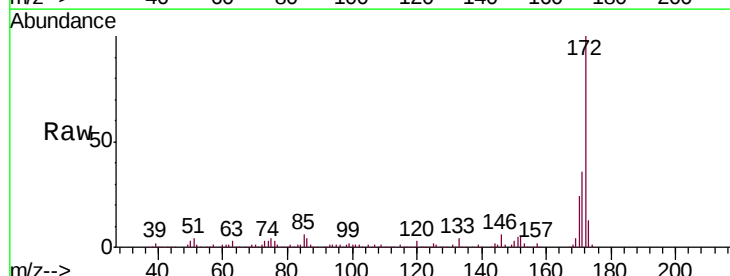
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 17.756 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108363.D
 Acq: 22 Aug 2018 3:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.7	44.5
170	24.0	19.6	29.4

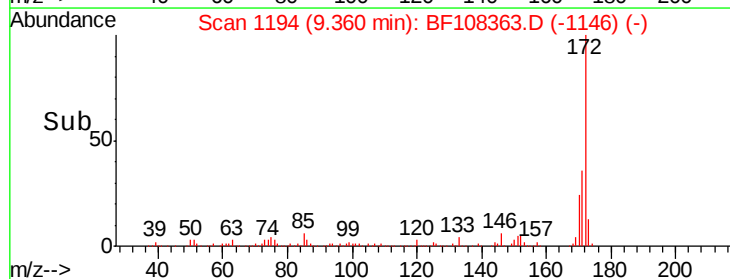
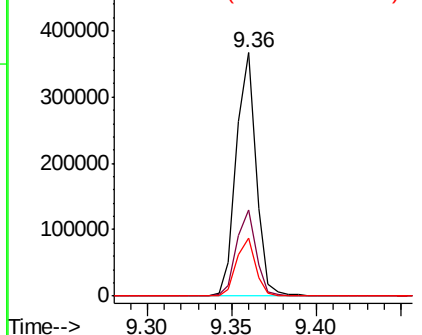


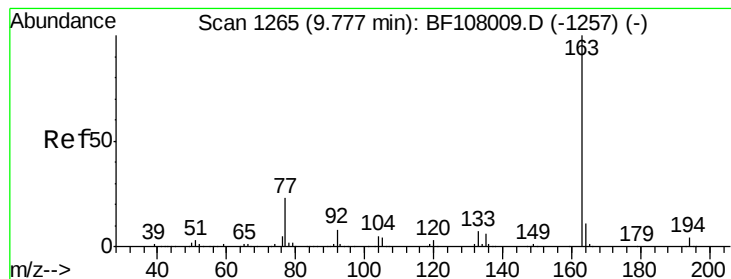
Abundance

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: 2.314 ng

RT: 9.75 min Scan# 1260

Delta R.T. -0.03 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

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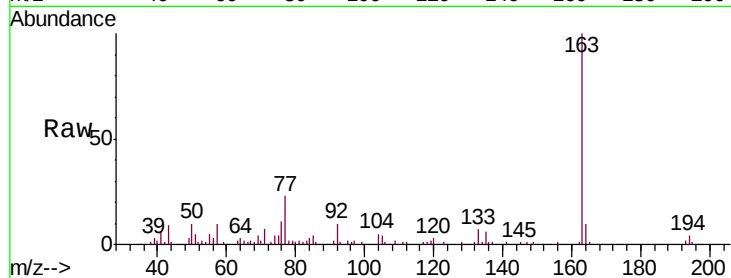
Tgt Ion:163 Resp: 43734

Ion Ratio Lower Upper

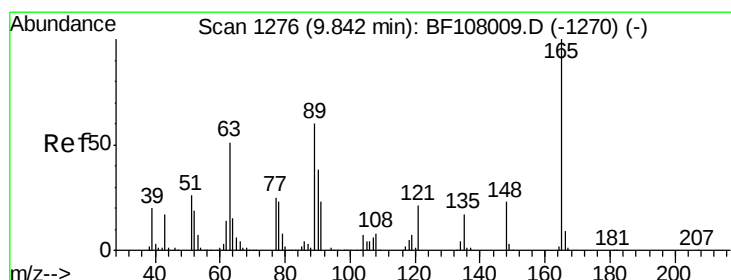
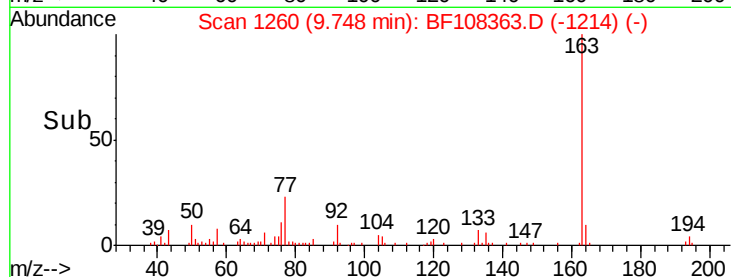
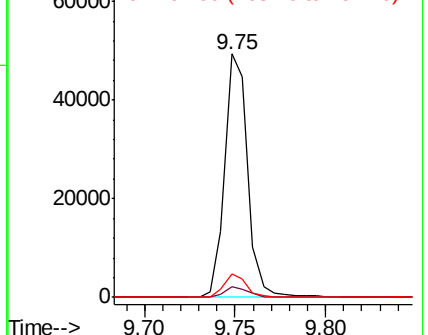
163 100

194 4.4 2.7 4.1#

164 9.7 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.965 ng

RT: 10.05 min Scan# 1311

Delta R.T. 0.21 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

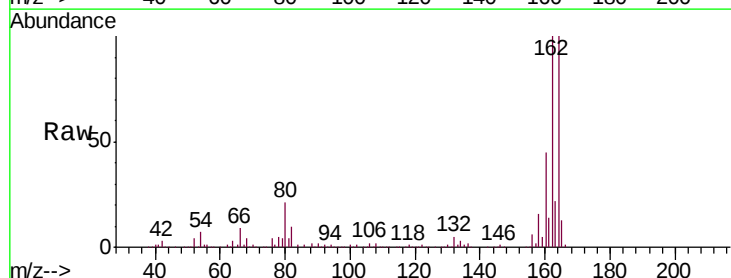
Tgt Ion:165 Resp: 35453

Ion Ratio Lower Upper

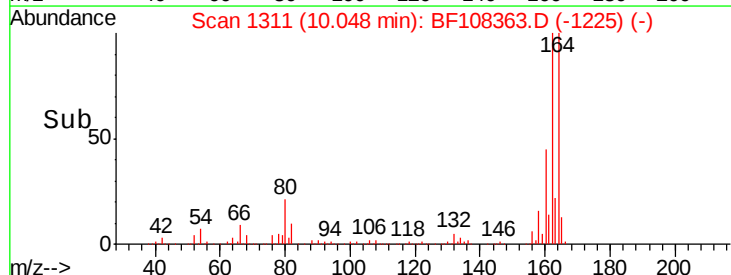
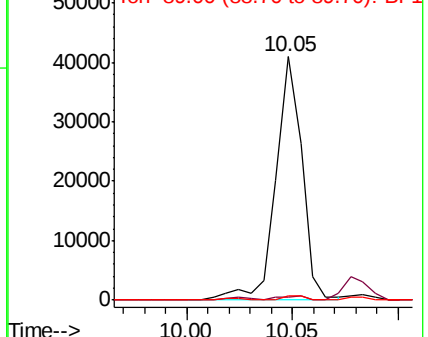
165 100

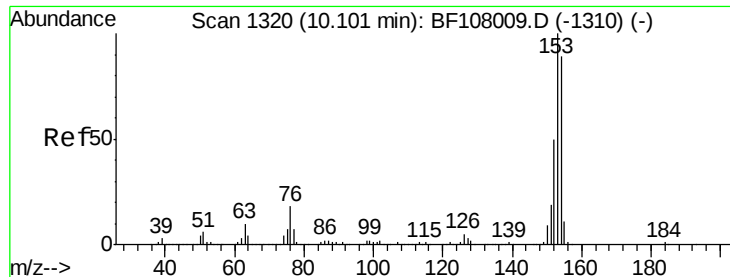
63 1.5 44.7 67.1#

89 1.6 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 2.099 ng

RT: 10.08 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

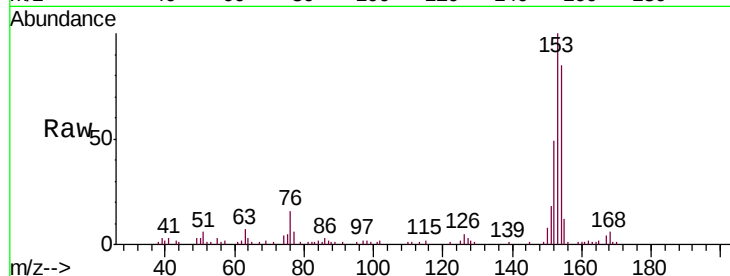
Tgt Ion:154 Resp: 32135

Ion Ratio Lower Upper

154 100

153 117.0 91.2 136.8

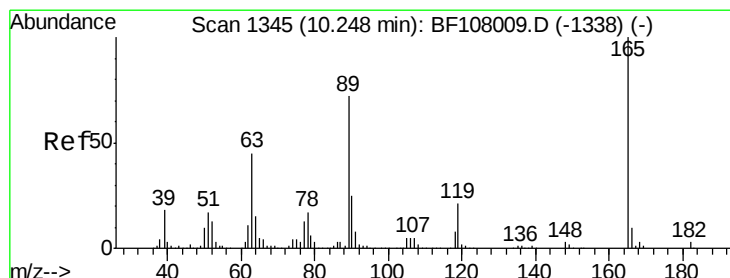
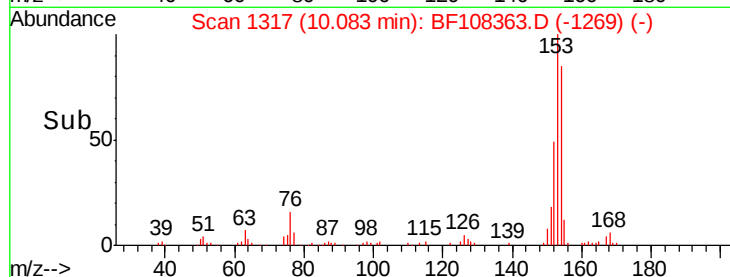
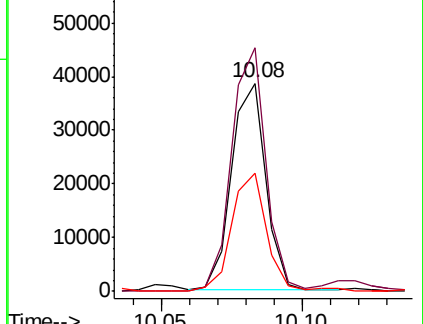
152 56.9 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#56

2,4-Dinitrotoluene

Concen: 6.964 ng

RT: 10.05 min Scan# 1311

Delta R.T. -0.20 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Tgt Ion:165 Resp: 35453

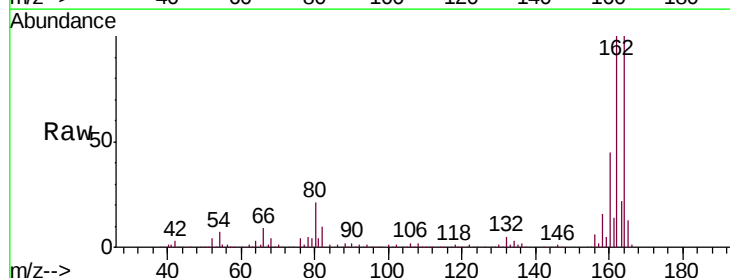
Ion Ratio Lower Upper

165 100

63 1.5 36.4 54.6#

89 1.6 57.8 86.6#

182 0.0 1.6 2.4#

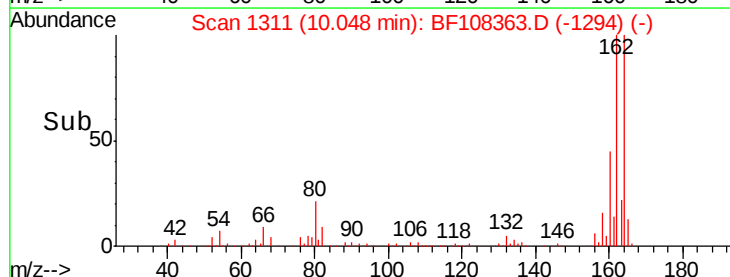
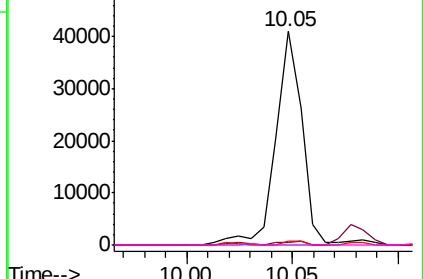


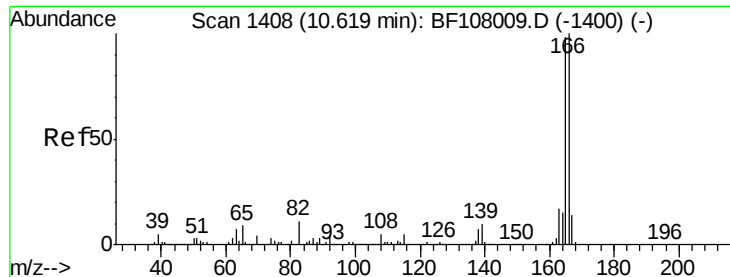
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

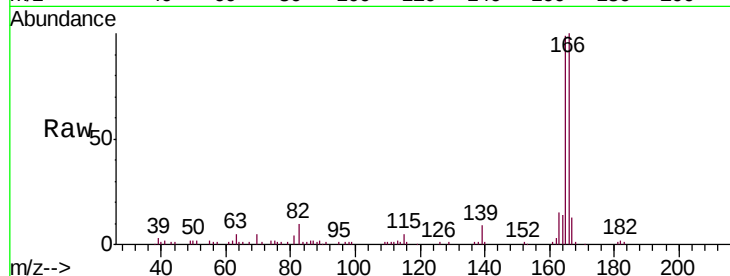




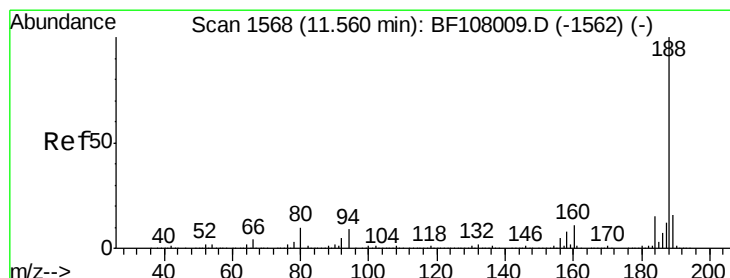
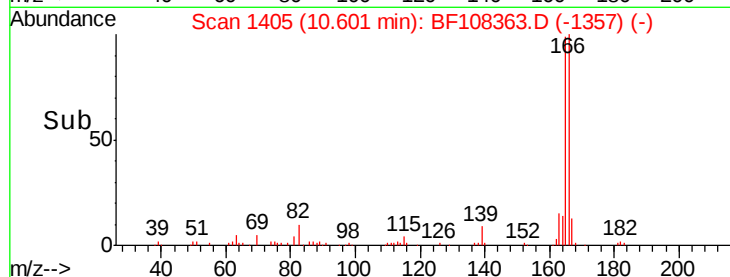
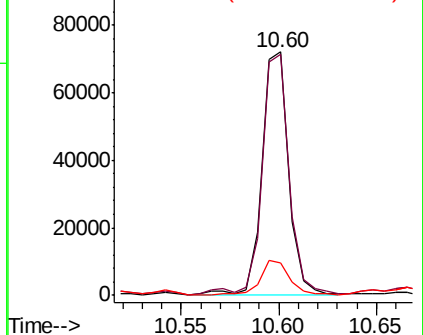
#57
 Fluorene
 Concen: 3.908 ng
 RT: 10.60 min Scan# 1405
 Delta R.T. -0.02 min
 Lab File: BF108363.D
 Acq: 22 Aug 2018 3:04

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-082018-A

Tgt Ion:166 Resp: 68624
 Ion Ratio Lower Upper
 166 100
 165 99.2 79.8 119.8
 167 13.5 10.6 16.0

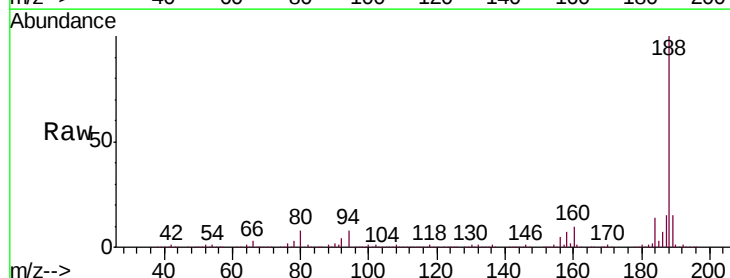


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

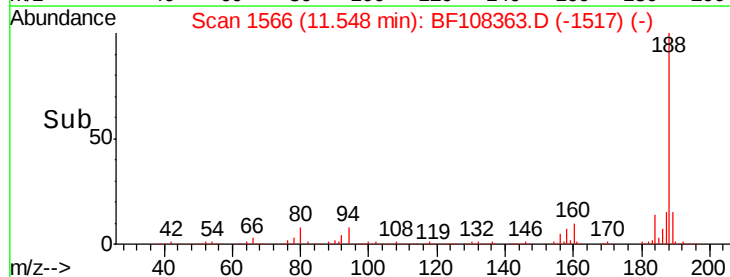
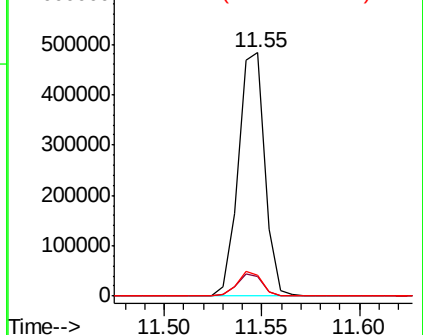


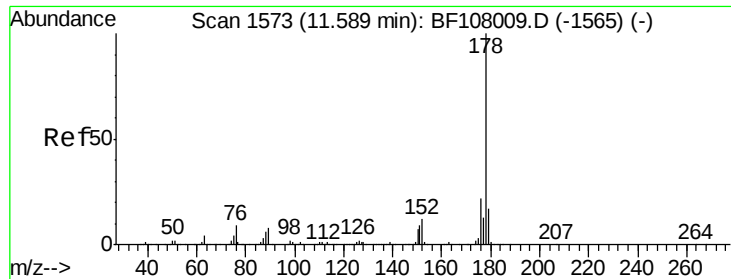
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.55 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF108363.D
 Acq: 22 Aug 2018 3:04

Tgt Ion:188 Resp: 453718
 Ion Ratio Lower Upper
 188 100
 94 7.9 8.5 12.7#
 80 8.3 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: 20.408 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

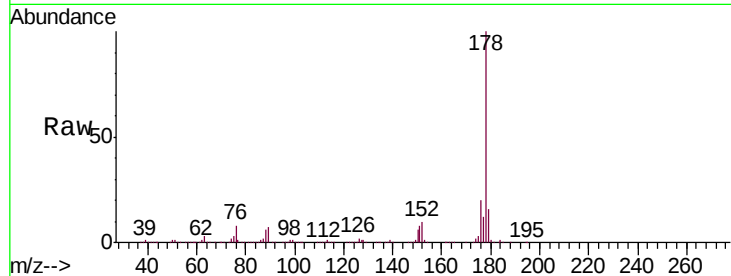
Tgt Ion:178 Resp: 436735

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

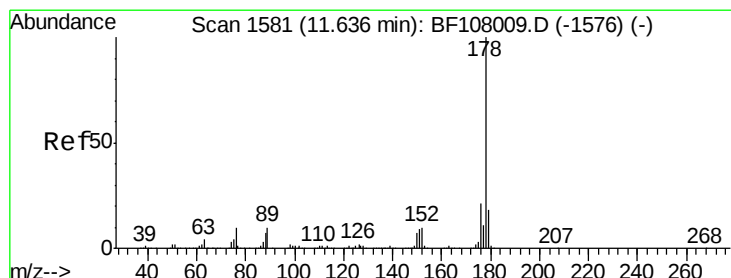
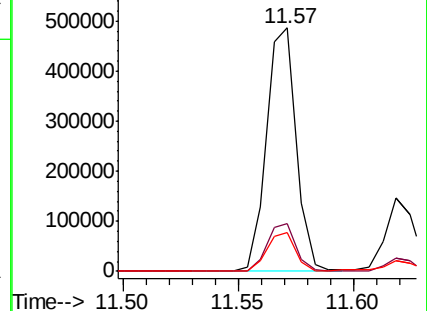
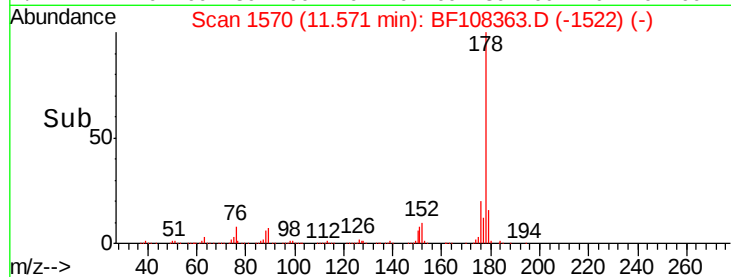
179 15.9 13.0 19.6



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: 5.937 ng

RT: 11.62 min Scan# 1578

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

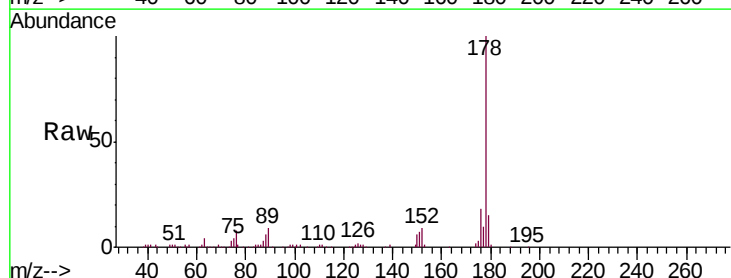
Tgt Ion:178 Resp: 130217

Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.2

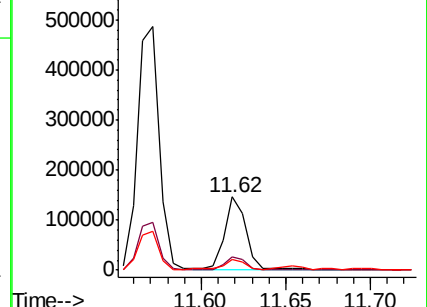
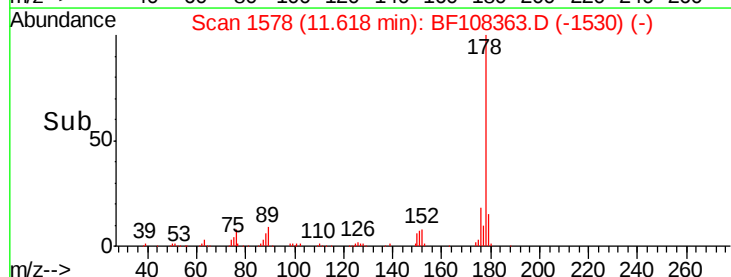
179 15.2 12.6 19.0

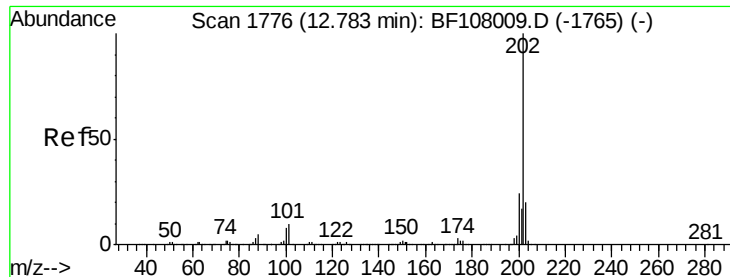


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 21.639 ng

RT: 12.77 min Scan# 1773

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

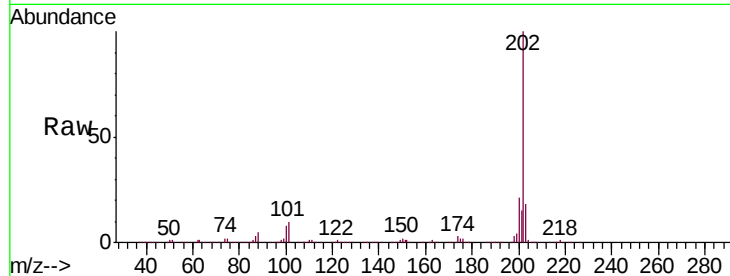
Tgt Ion:202 Resp: 505402

Ion Ratio Lower Upper

202 100

101 10.3 0.0 34.1

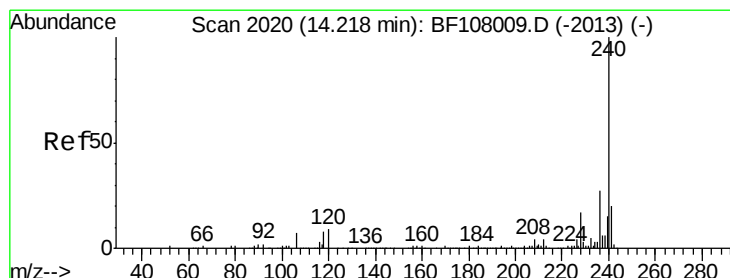
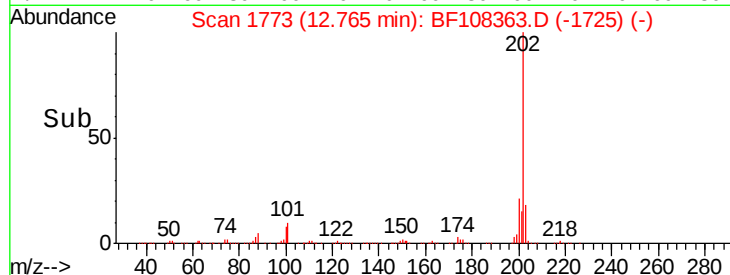
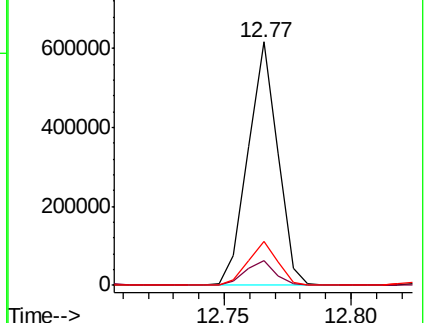
203 17.8 0.0 38.1



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: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

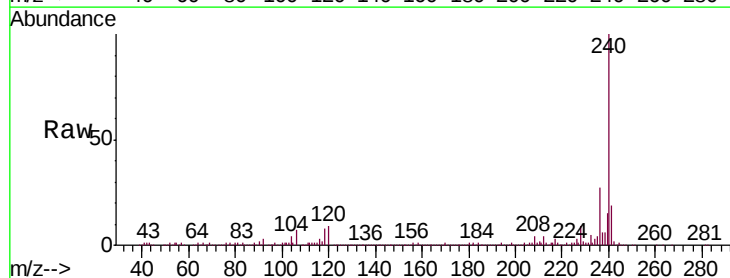
Tgt Ion:240 Resp: 365813

Ion Ratio Lower Upper

240 100

120 9.3 9.5 14.3#

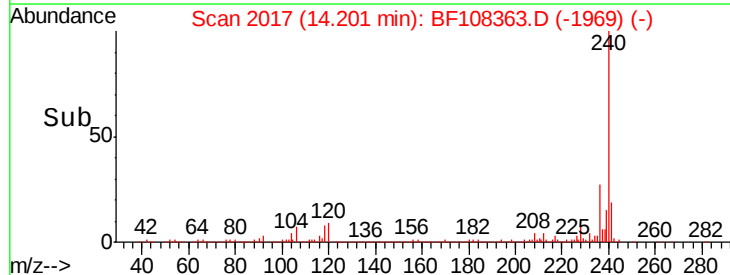
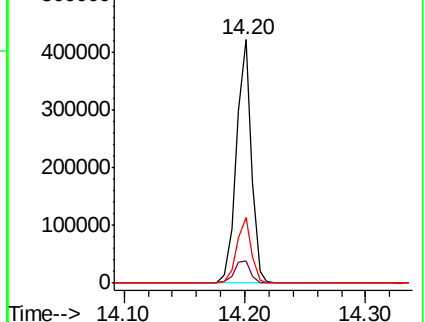
236 27.2 20.7 31.1

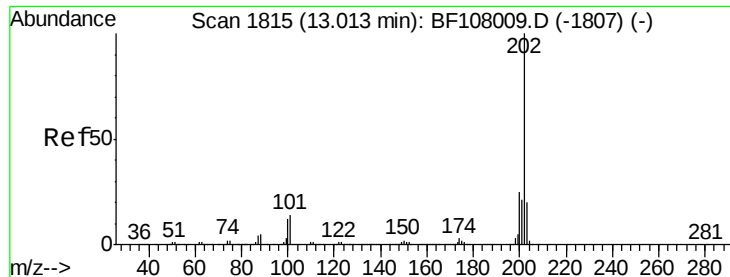


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 19.670 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

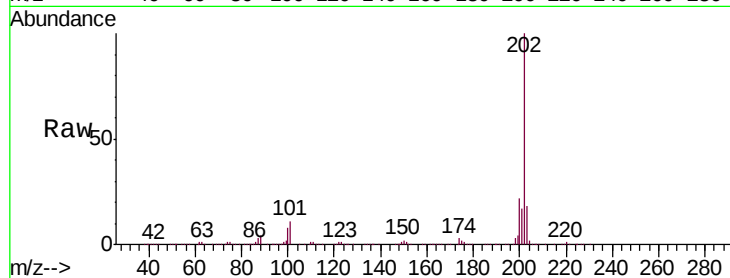
Tgt Ion:202 Resp: 455564

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

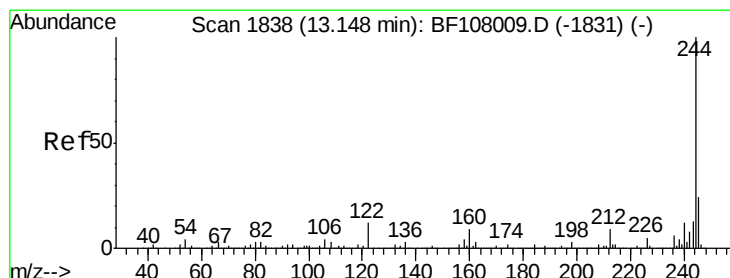
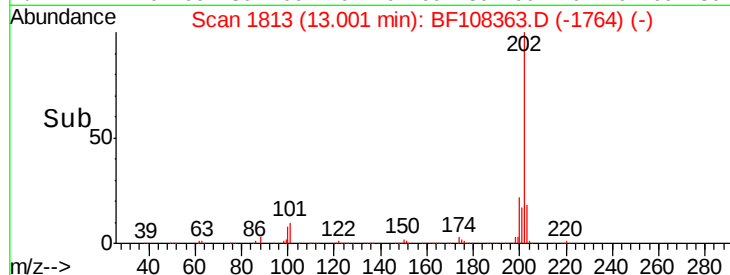
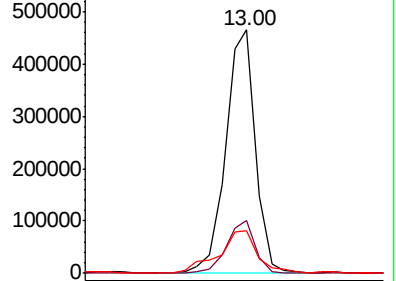
203 17.7 14.3 21.5



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: 16.850 ng

RT: 13.13 min Scan# 1835

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

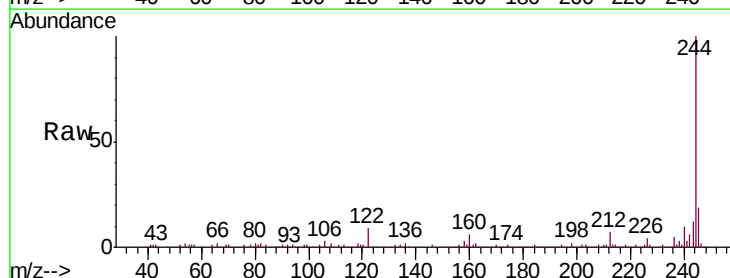
Tgt Ion:244 Resp: 242436

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

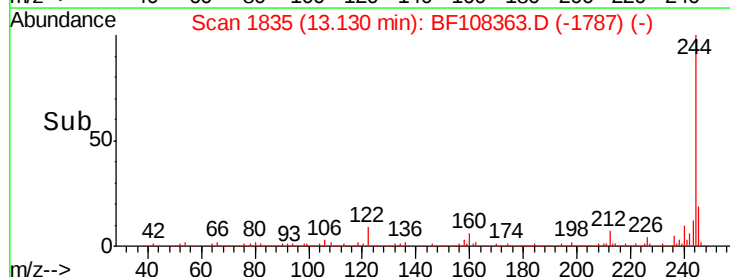
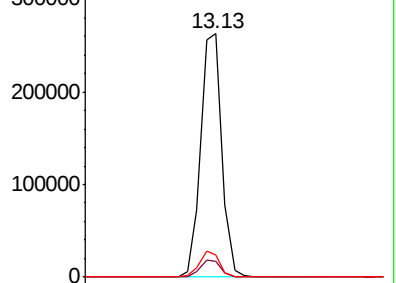
122 9.0 11.0 16.4#

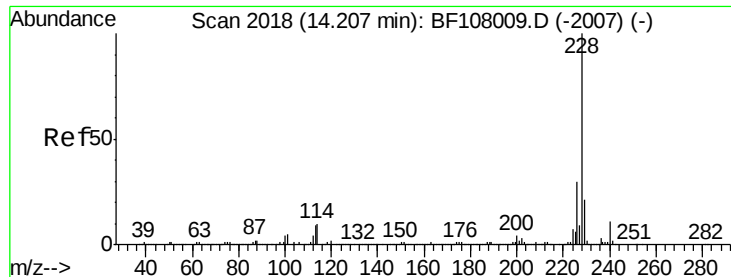


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.254 ng

RT: 14.19 min Scan# 2015

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

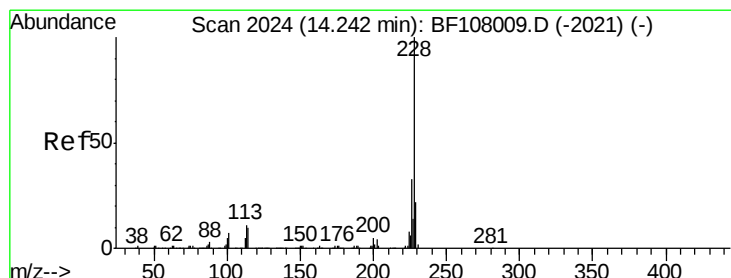
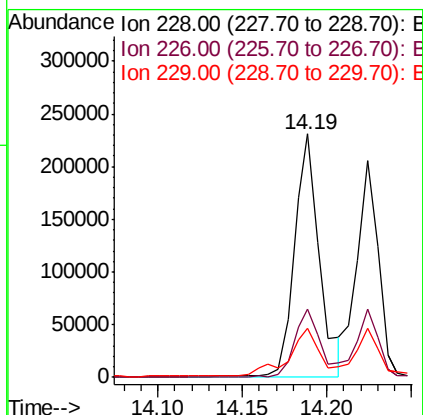
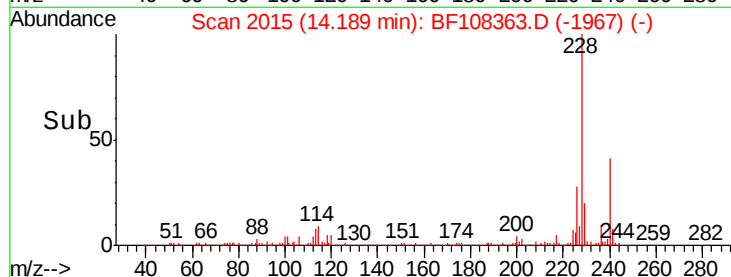
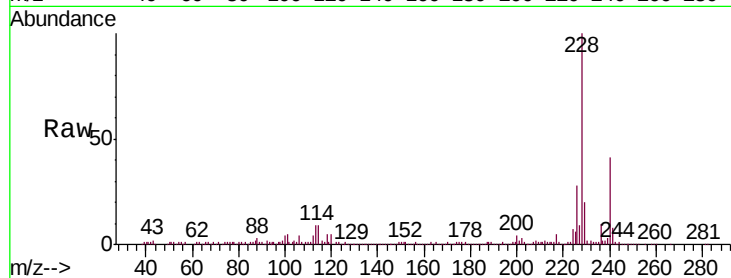
Tgt Ion:228 Resp: 236259

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

229 20.2 15.8 23.6



#82

Chrysene

Concen: 9.432 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

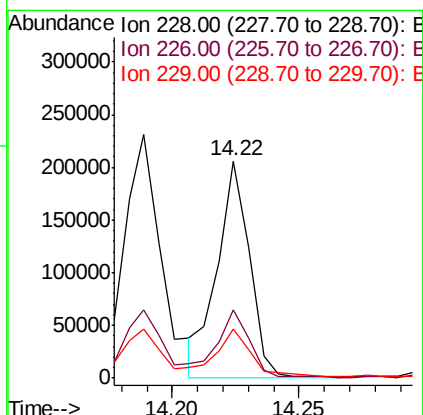
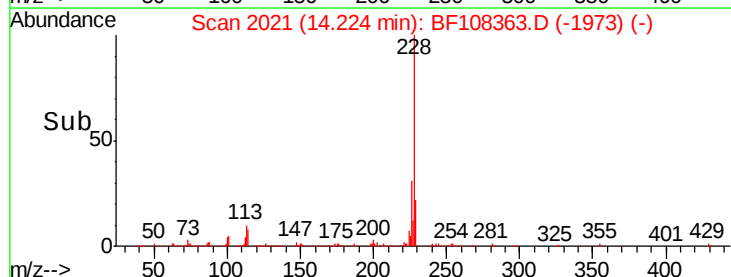
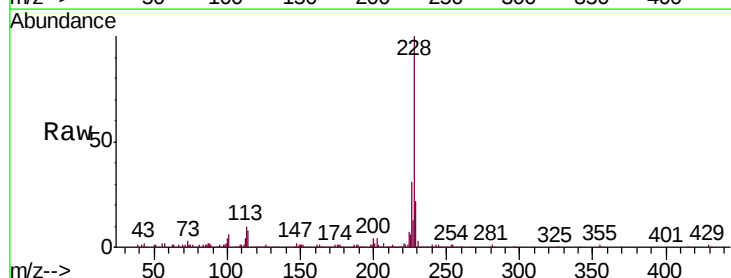
Tgt Ion:228 Resp: 181536

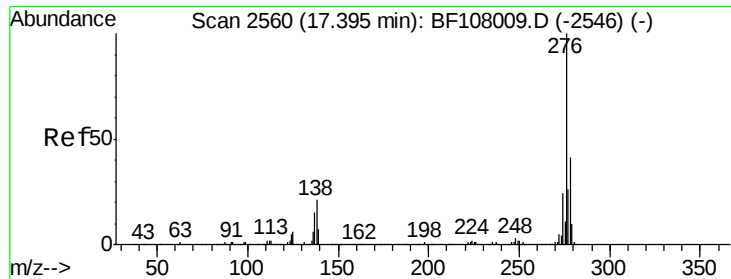
Ion Ratio Lower Upper

228 100

226 31.4 25.0 37.6

229 22.4 16.2 24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.165 ng

RT: 17.37 min Scan# 2555

Delta R.T. -0.03 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

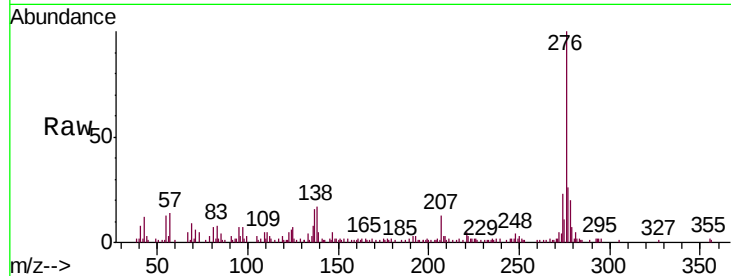
Tgt Ion:276 Resp: 69451

Ion Ratio Lower Upper

276 100

138 20.7 25.0 37.6#

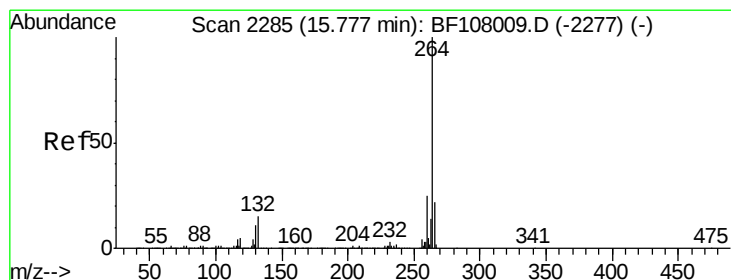
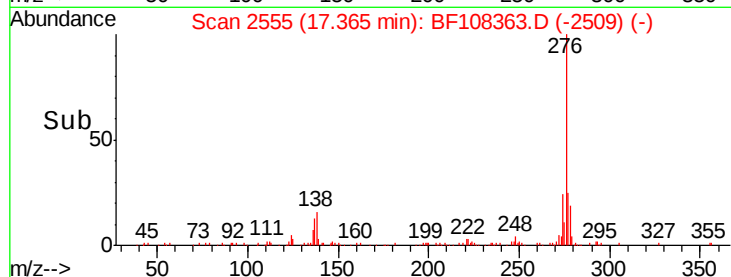
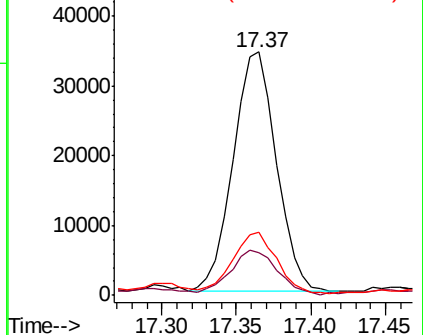
277 25.5 20.1 30.1



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

Perylene-d12

Concen: 20.000 ng

RT: 15.76 min Scan# 2282

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

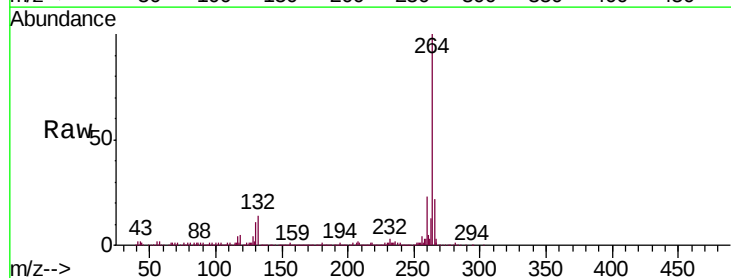
Tgt Ion:264 Resp: 307557

Ion Ratio Lower Upper

264 100

260 23.1 19.2 28.8

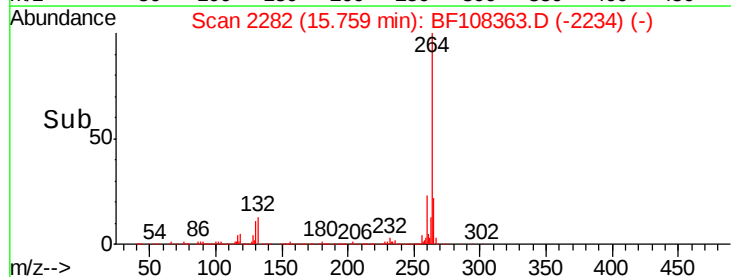
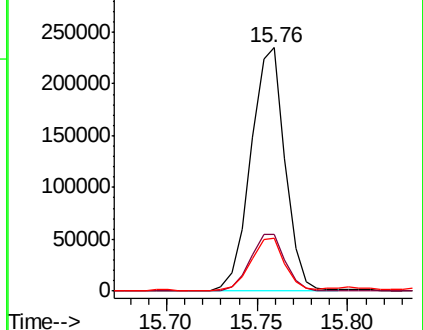
265 21.7 17.5 26.3

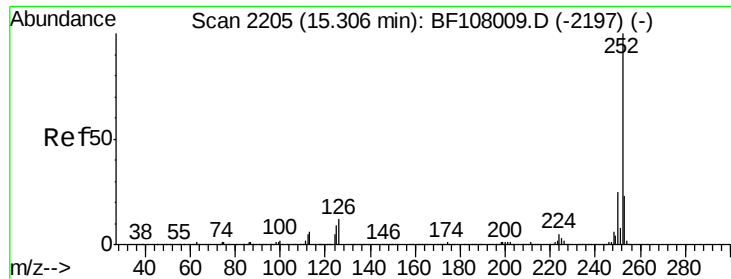


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

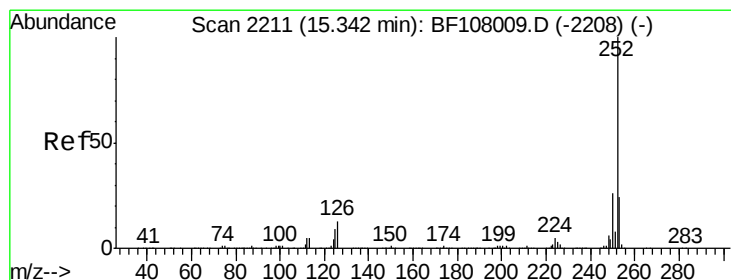
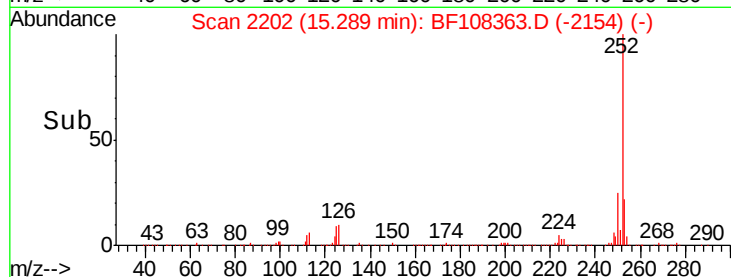
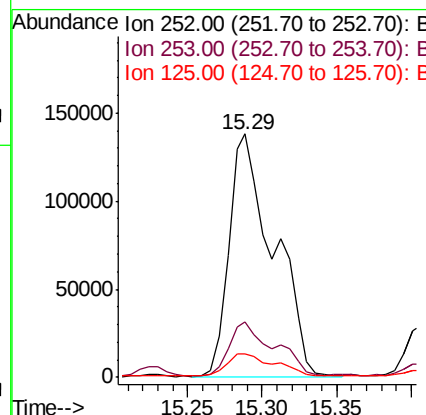
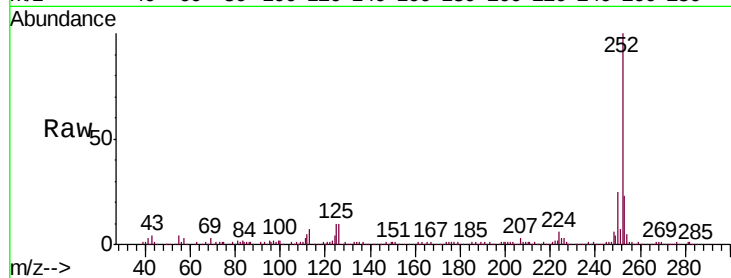




#87
Benzo(b)fluoranthene
Concen: 15.568 ng
RT: 15.29 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF108363.D
Acq: 22 Aug 2018 3:04

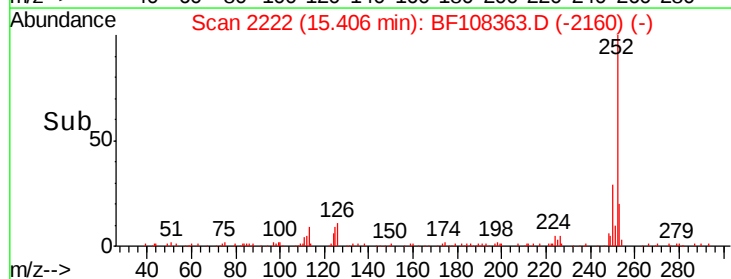
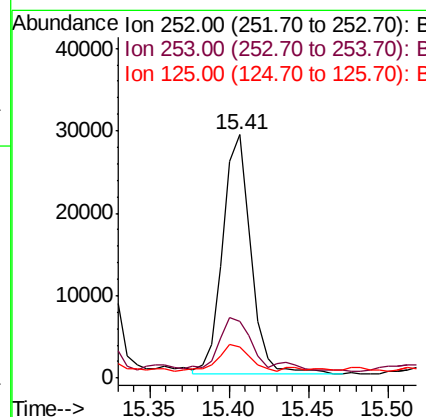
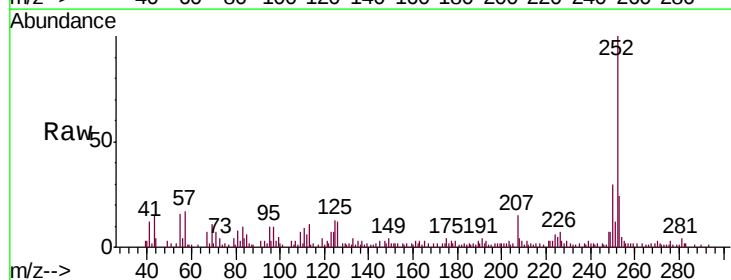
Instrument :
BNA_F
ClientSampleId :
HR-06-082018-A

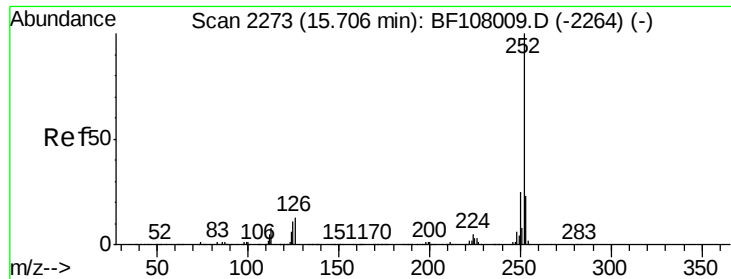
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	9.7	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 2.115 ng
RT: 15.41 min Scan# 2222
Delta R.T. 0.06 min
Lab File: BF108363.D
Acq: 22 Aug 2018 3:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	12.6	10.2	15.2





#89

Benzo(a)pyrene

Concen: 9.260 ng

RT: 15.69 min Scan# 2270

Delta R.T. -0.02 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-A

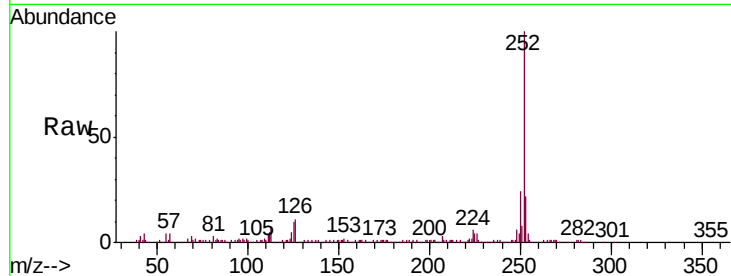
Tgt Ion: 252 Resp: 152390

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

125 10.2 9.8 14.6

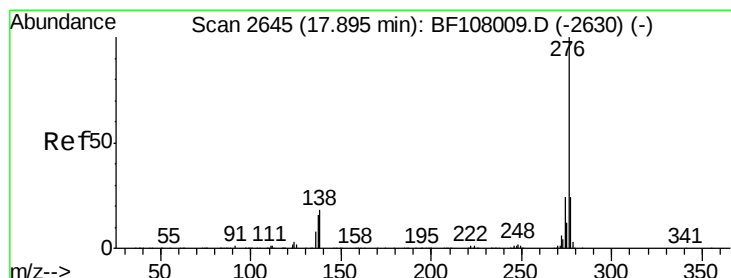
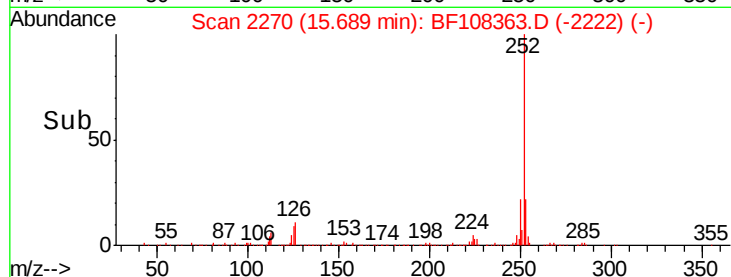
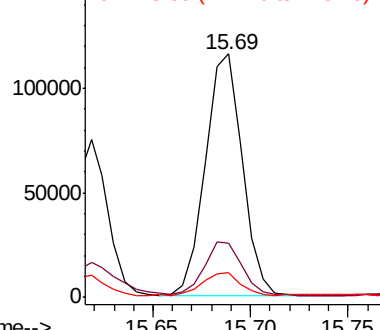


Abundance

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: 4.752 ng

RT: 17.85 min Scan# 2638

Delta R.T. -0.04 min

Lab File: BF108363.D

Acq: 22 Aug 2018 3:04

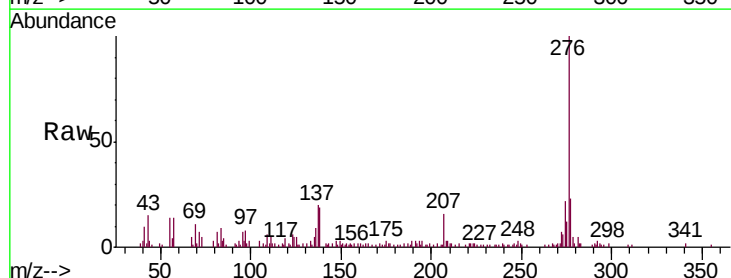
Tgt Ion: 276 Resp: 63716

Ion Ratio Lower Upper

276 100

277 23.1 17.9 26.9

138 18.5 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

