

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082118\
 Data File : BF108357.D
 Acq On : 22 Aug 2018 00:20
 Operator : JU/SJ
 Sample : J4271-11 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Aug 22 01:42:02 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	164417	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	613713	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	273950	20.00	ng	-0.02
63) Phenanthrene-d10	11.54	188	447022	20.00	ng	-0.02
75) Chrysene-d12	14.20	240	372208	20.00	ng	-0.02
86) Perylene-d12	15.75	264	323307	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.62	112	97177	10.70	ng	-0.01
7) Phenol-d6	6.61	99	133033	11.02	ng	-0.02
23) Nitrobenzene-d5	7.56	82	80921	7.36	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	23123	8.46	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	154895	9.08	ng	-0.02
78) Terphenyl-d14	13.12	244	119215	8.14	ng	-0.02

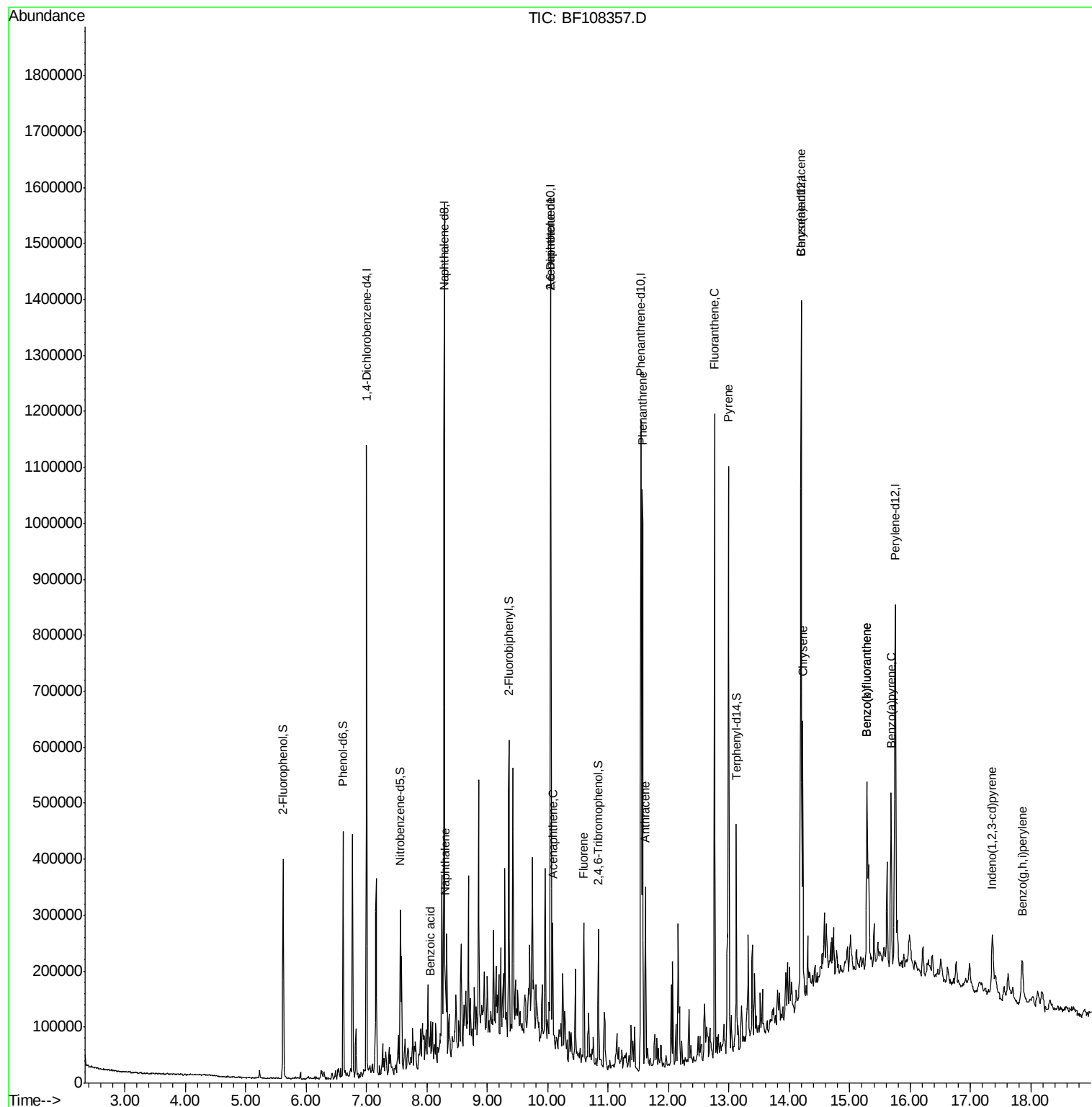
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.31	128	57987	2.078	ng	97
32) Benzoic acid	8.06	122	249	6.015	ng	# 22
50) 2,6-Dinitrotoluene	10.05	165	38352	9.606	ng	# 26
51) Acenaphthene	10.08	154	39642	2.564	ng	99
57) Fluorene	10.60	166	72176	4.071	ng	100
70) Phenanthrene	11.57	178	387360	18.372	ng	98
71) Anthracene	11.62	178	114239	5.286	ng	98
74) Fluoranthene	12.77	202	449365	19.528	ng	95
77) Pyrene	12.99	202	419034	17.782	ng	99
80) Benzo(a)anthracene	14.19	228	209310	9.799	ng	98
82) Chrysene	14.22	228	181867	9.287	ng	98
85) Indeno(1,2,3-cd)pyrene	17.36	276	69679	4.106	ng	# 87
87) Benzo(b)fluoranthene	15.28	252	279649	14.475	ng	98
88) Benzo(k)fluoranthene	15.28	252	279649	15.747	ng	98
89) Benzo(a)pyrene	15.68	252	154517	8.932	ng	97
91) Benzo(g,h,i)perylene	17.85	276	62359	4.424	ng	# 87

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

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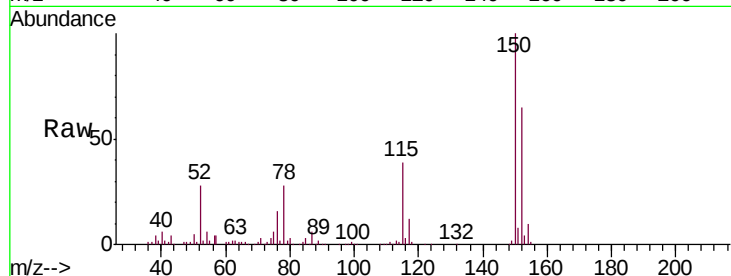


#1

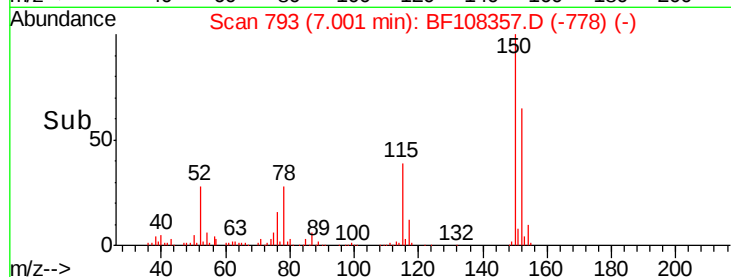
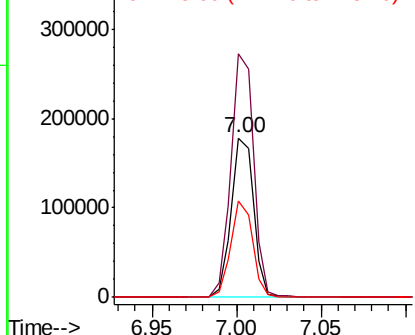
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

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

Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.6	186.8
115	60.2	50.1	75.1



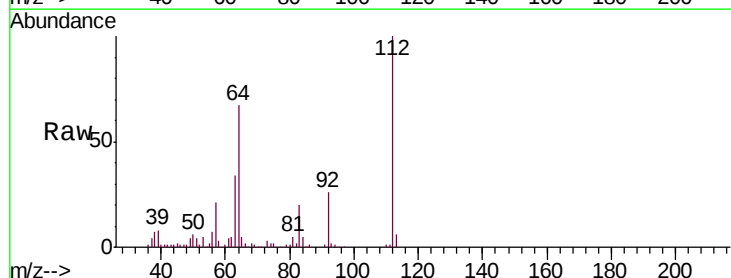
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



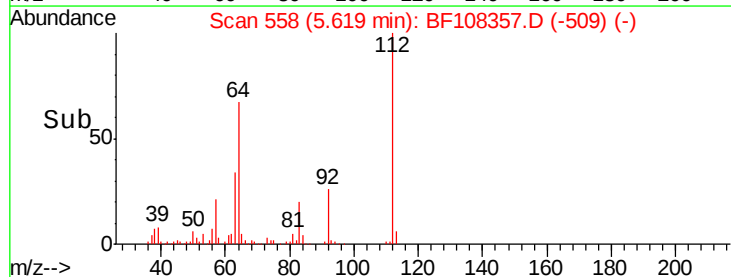
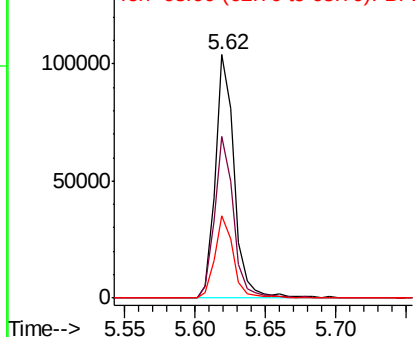
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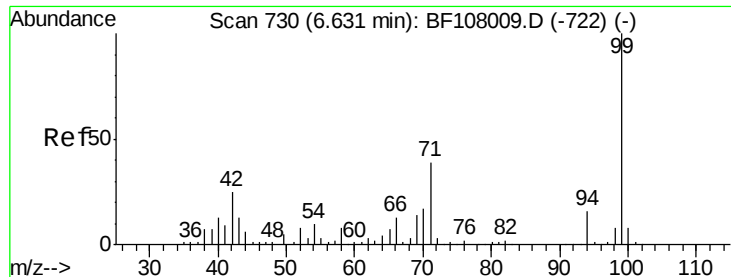
2-Fluorophenol
Concen: 10.701 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.5	47.9	71.9
63	34.0	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: 11.023 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-B

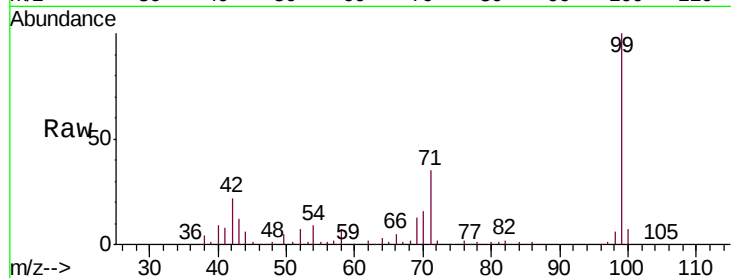
Tgt Ion: 99 Resp: 133033

Ion Ratio Lower Upper

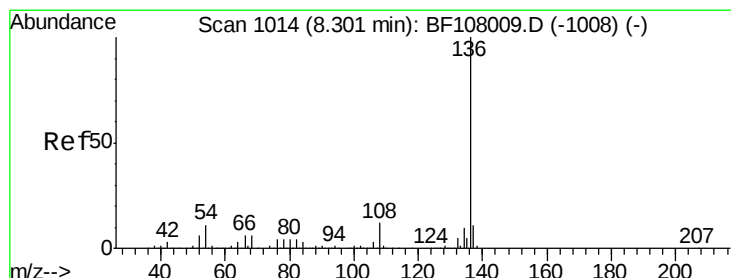
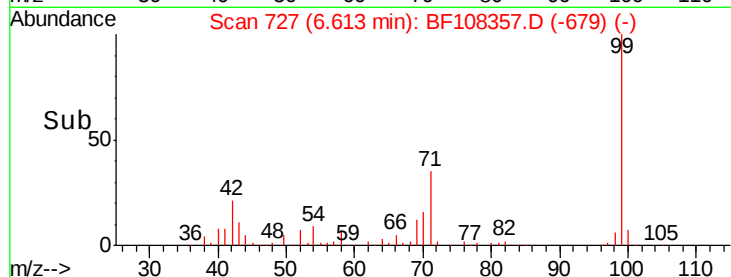
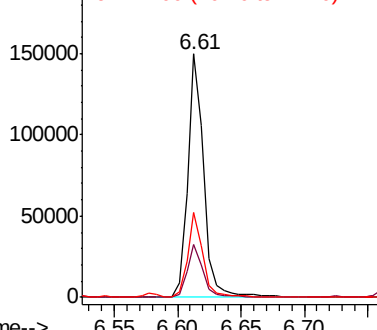
99 100

42 21.5 14.5 21.7

71 34.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

Tgt Ion: 136 Resp: 613713

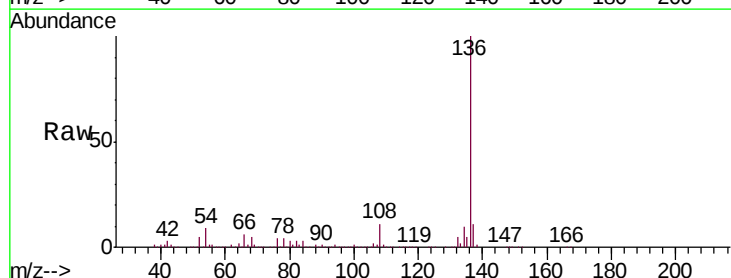
Ion Ratio Lower Upper

136 100

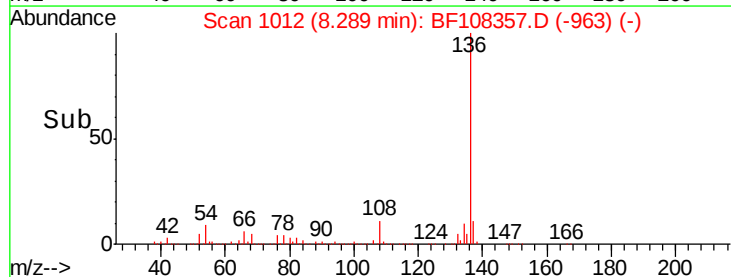
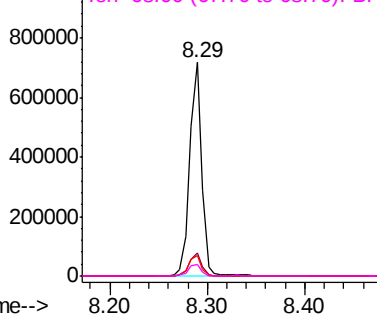
137 11.1 8.9 13.3

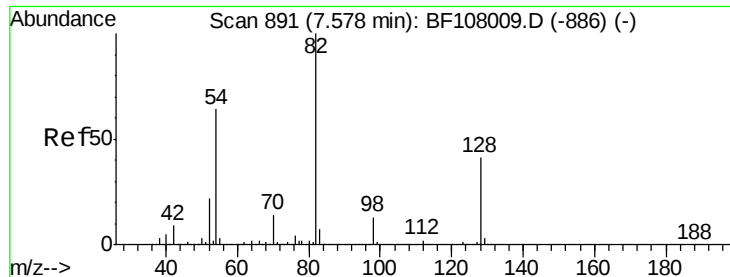
54 9.4 6.6 9.8

68 5.5 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

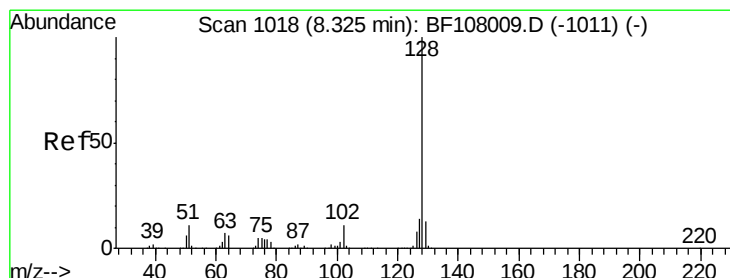
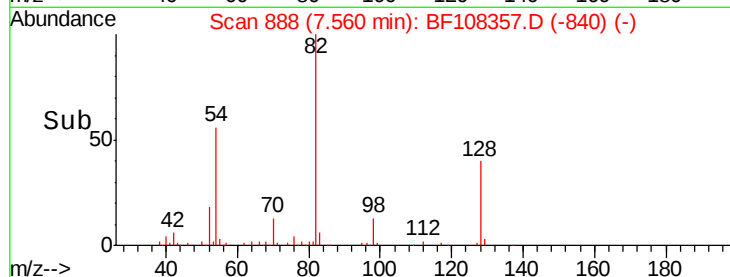
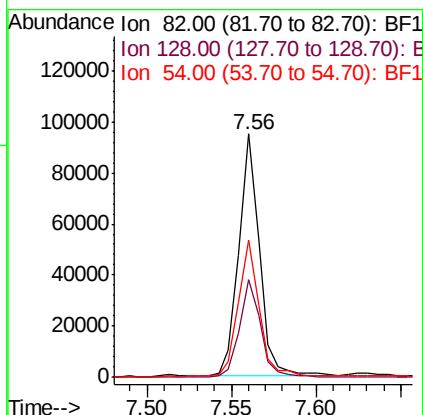
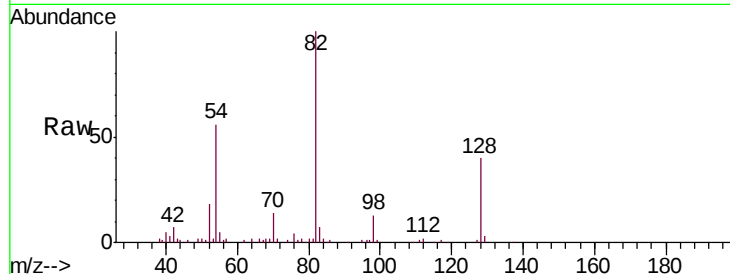




#23
 Nitrobenzene-d5
 Concen: 7.358 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

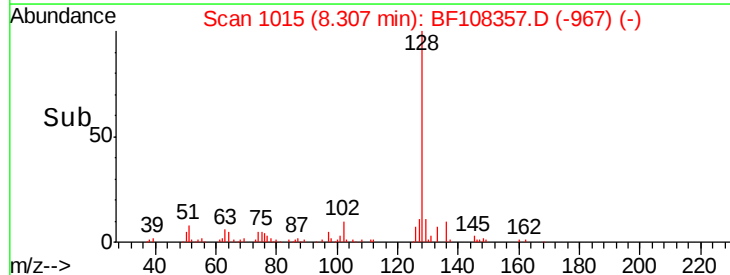
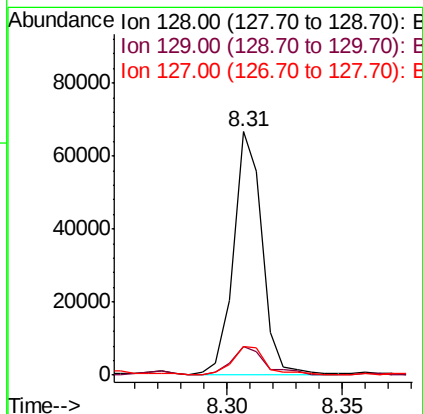
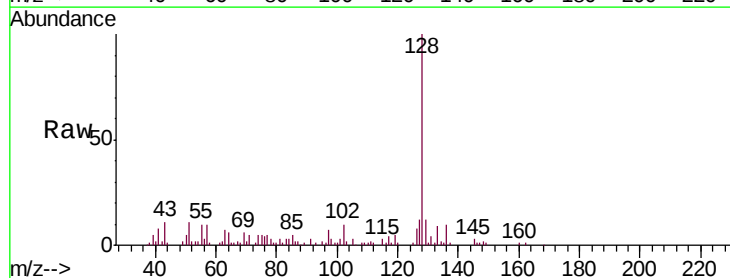
Instrument :
 BNA_F
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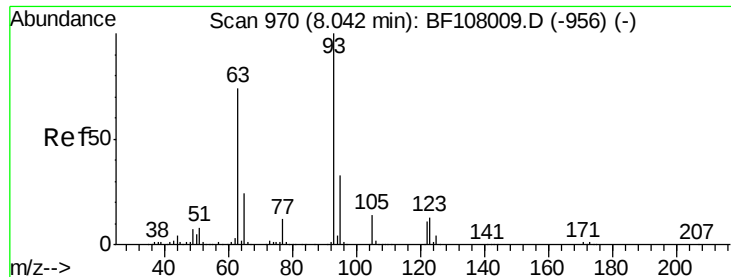
Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.2	36.1	54.1
54	56.4	41.4	62.2



#31
 Naphthalene
 Concen: 2.078 ng
 RT: 8.31 min Scan# 1015
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	12.0	10.9	16.3

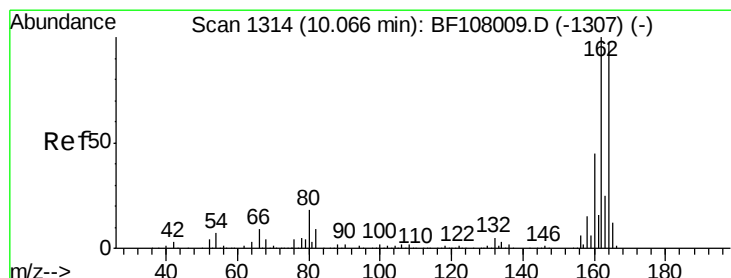
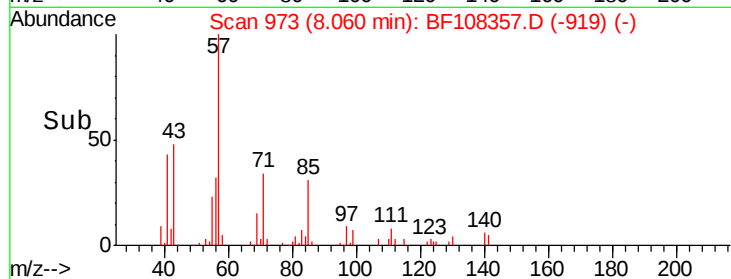
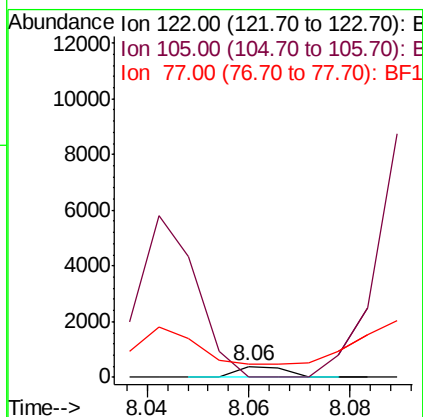
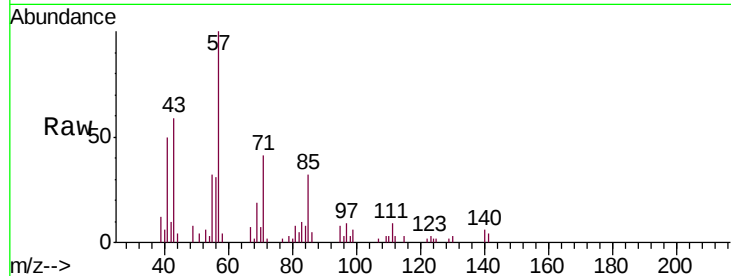




#32
Benzoic acid
Concen: 6.015 ng
RT: 8.06 min Scan# 973
Delta R.T. 0.02 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

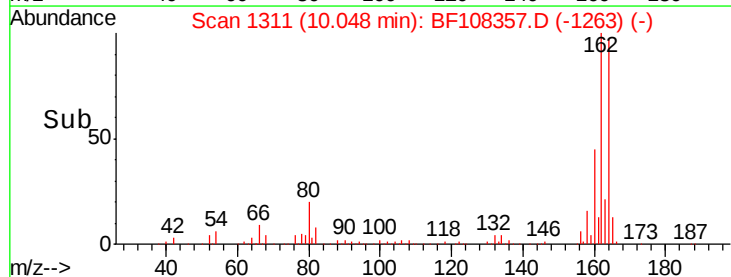
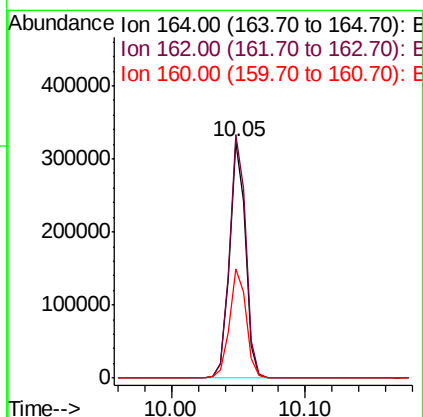
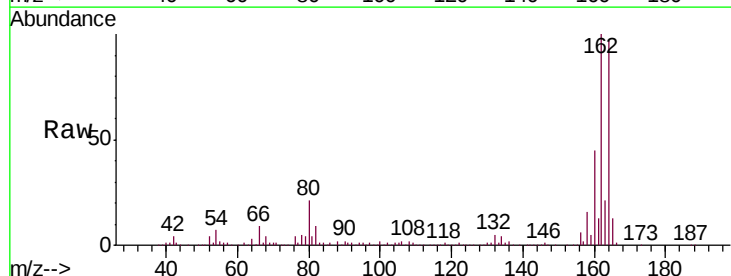
Instrument :
BNA_F
ClientSampleId :
HR-06-082018-B

Tgt Ion:122 Resp: 249
Ion Ratio Lower Upper
122 100
105 0.0 101.1 141.1#
77 126.3 70.7 110.7#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.02 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

Tgt Ion:164 Resp: 273950
Ion Ratio Lower Upper
164 100
162 103.2 86.1 129.1
160 46.3 38.3 57.5

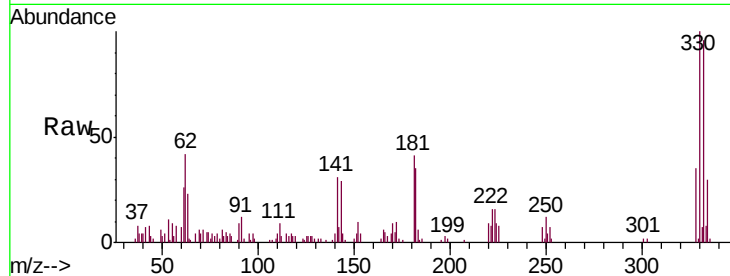




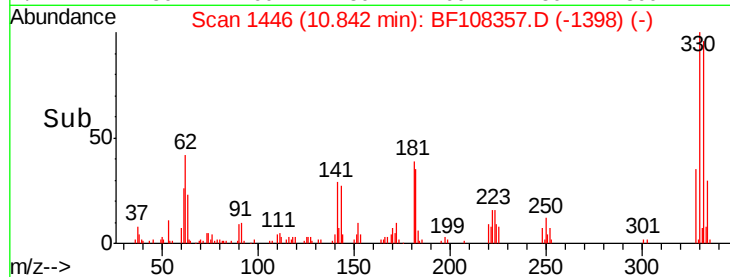
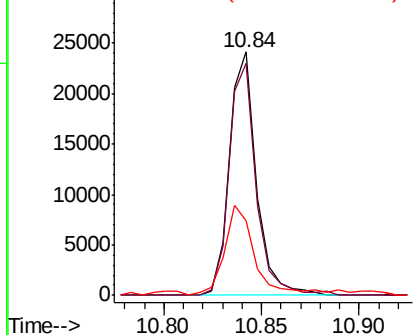
#41
 2,4,6-Tribromophenol
 Concen: 8.462 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

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

Tgt Ion: 330 Resp: 23123
 Ion Ratio Lower Upper
 330 100
 332 96.1 77.0 115.6
 141 41.5 29.9 44.9

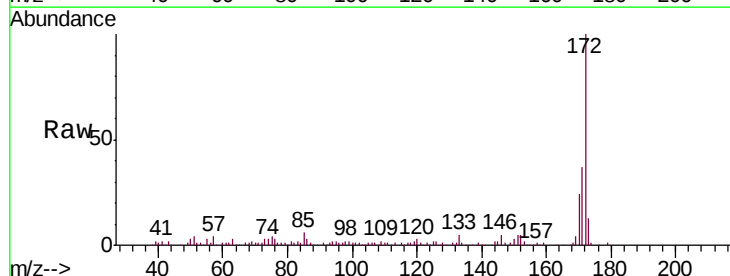


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

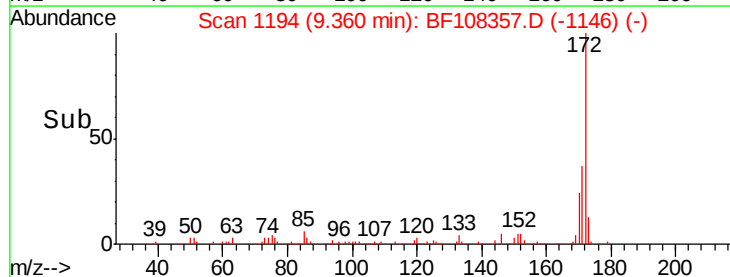
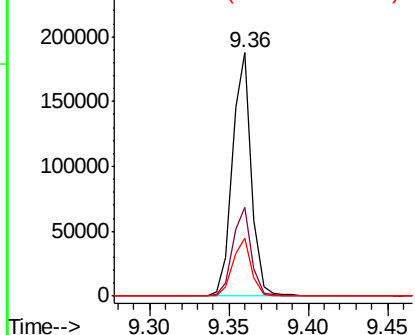


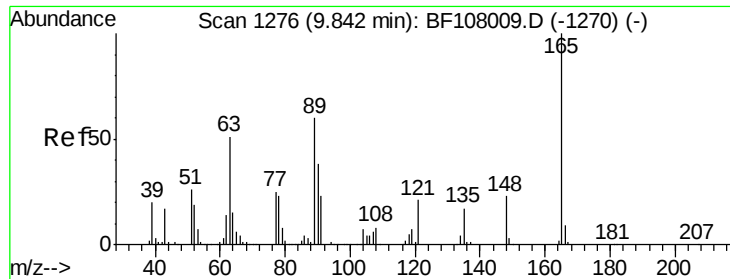
#44
 2-Fluorobiphenyl
 Concen: 9.078 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

Tgt Ion: 172 Resp: 154895
 Ion Ratio Lower Upper
 172 100
 171 36.6 29.7 44.5
 170 23.9 19.6 29.4



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

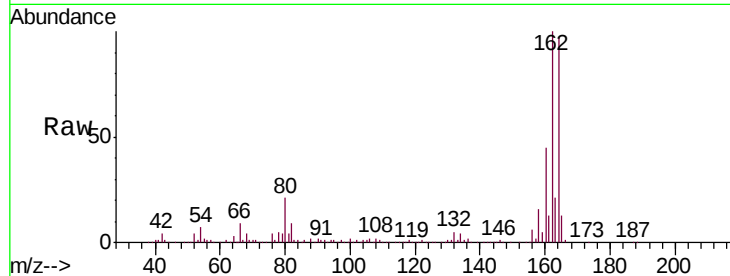




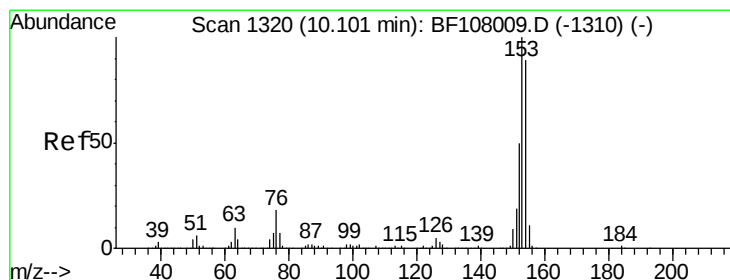
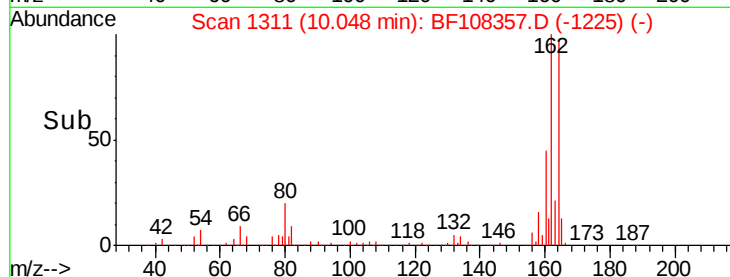
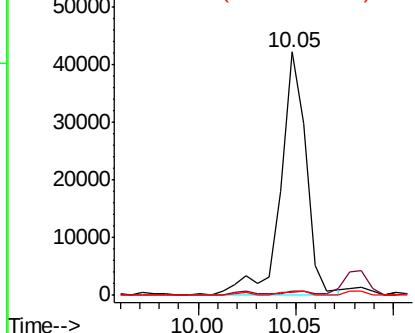
#50
2,6-Dinitrotoluene
Concen: 9.606 ng
RT: 10.05 min Scan# 1311
Delta R.T. 0.21 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

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

Tgt Ion:165 Resp: 38352
Ion Ratio Lower Upper
165 100
63 1.9 44.7 67.1#
89 1.2 44.0 66.0#

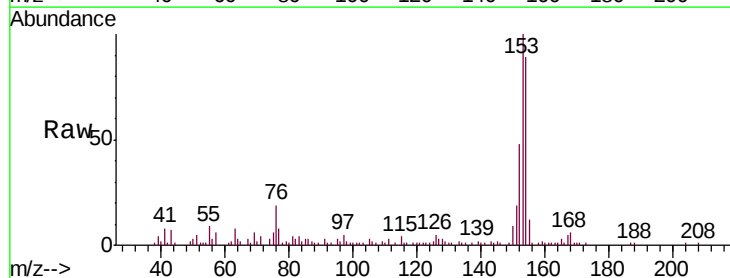


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

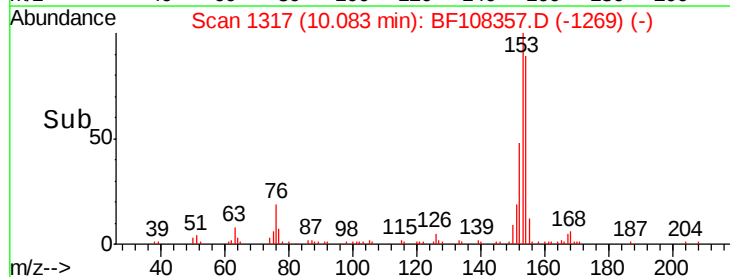
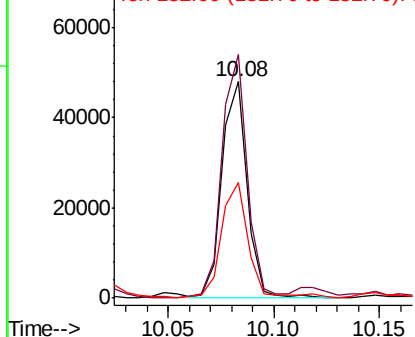


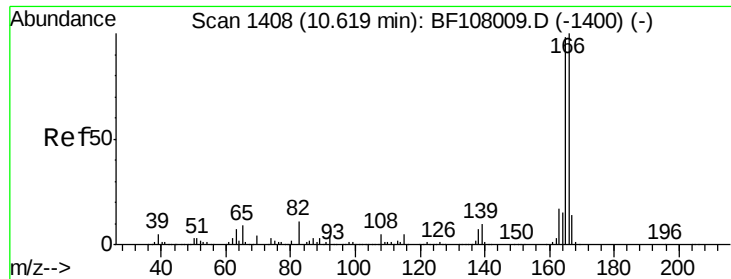
#51
Acenaphthene
Concen: 2.564 ng
RT: 10.08 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

Tgt Ion:154 Resp: 39642
Ion Ratio Lower Upper
154 100
153 112.6 91.2 136.8
152 53.8 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

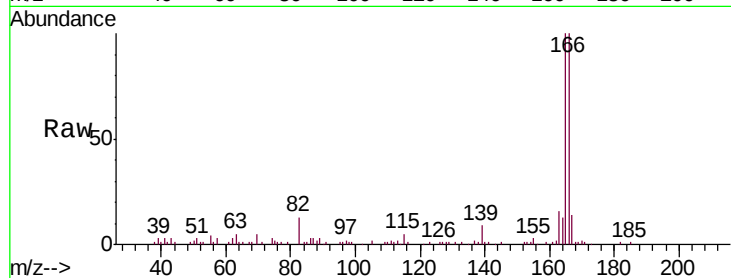




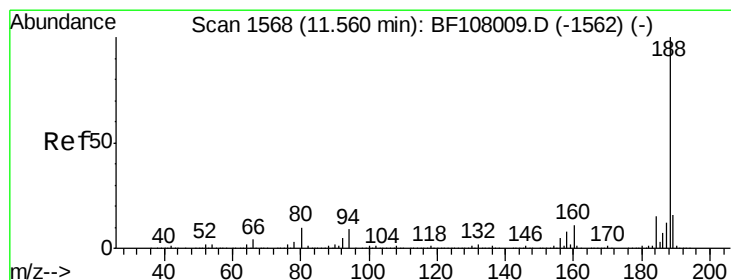
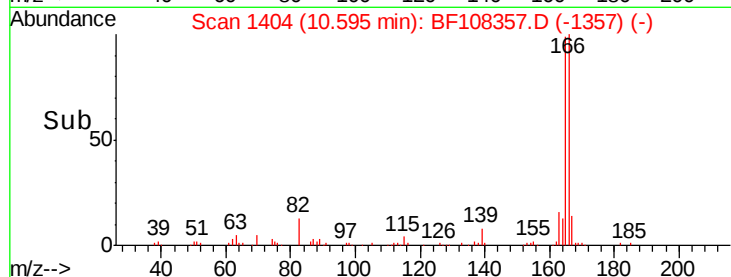
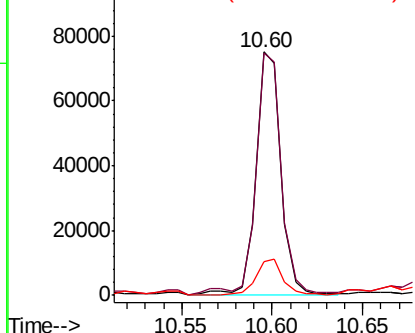
#57
 Fluorene
 Concen: 4.071 ng
 RT: 10.60 min Scan# 1404
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

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

Tgt Ion:166 Resp: 72176
 Ion Ratio Lower Upper
 166 100
 165 99.6 79.8 119.8
 167 13.9 10.6 16.0

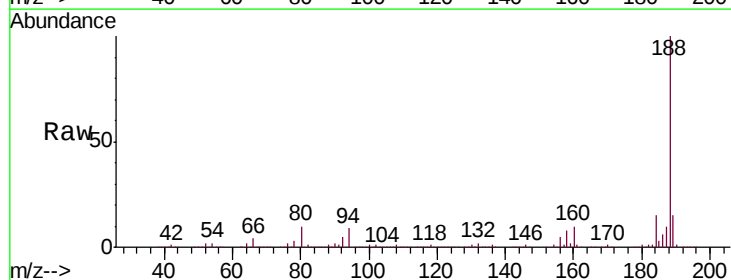


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

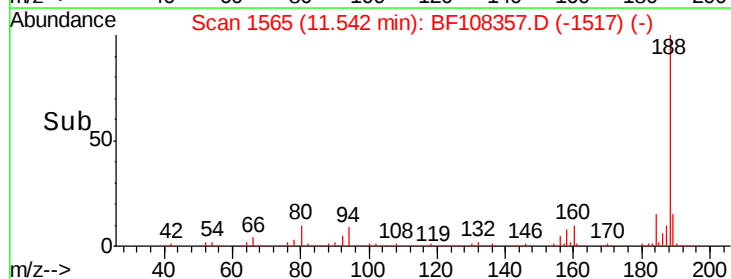
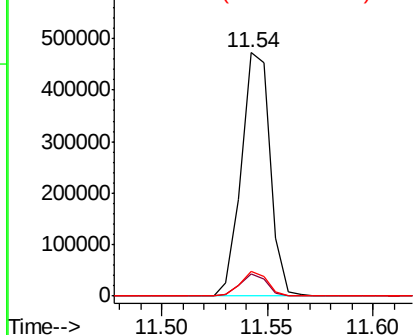


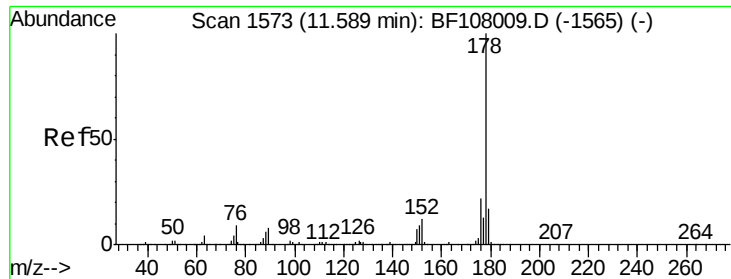
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.54 min Scan# 1565
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

Tgt Ion:188 Resp: 447022
 Ion Ratio Lower Upper
 188 100
 94 9.0 8.5 12.7
 80 10.1 9.2 13.8



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

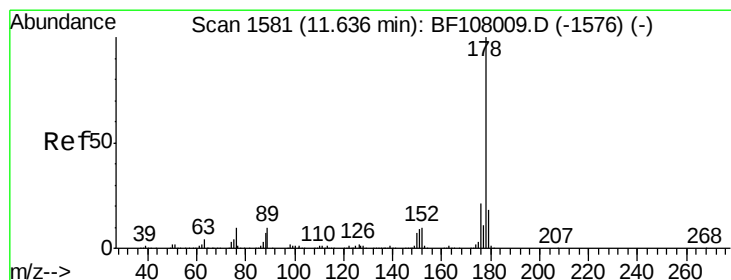
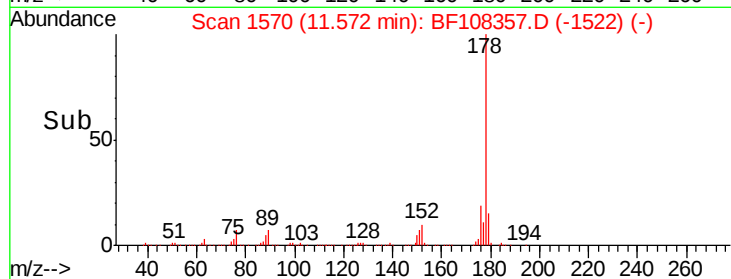
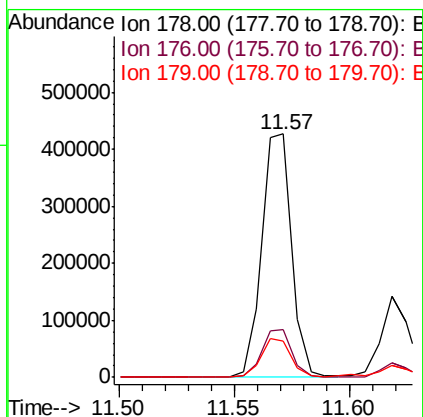
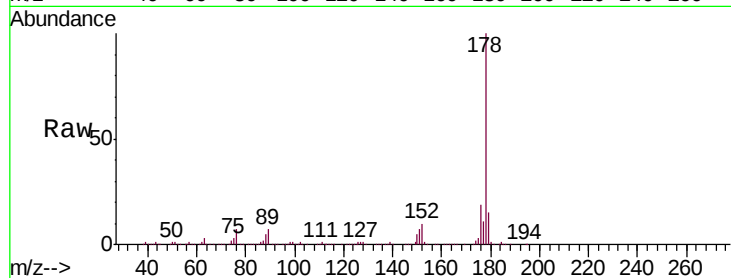




#70
Phenanthrene
Concen: 18.372 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

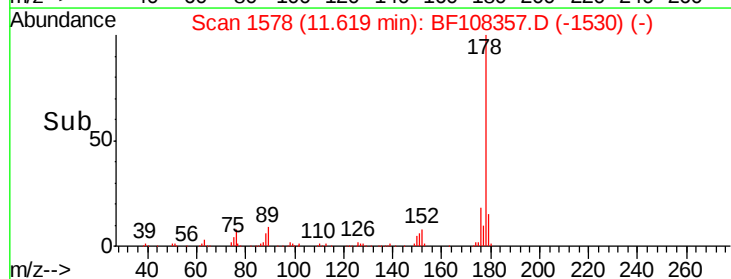
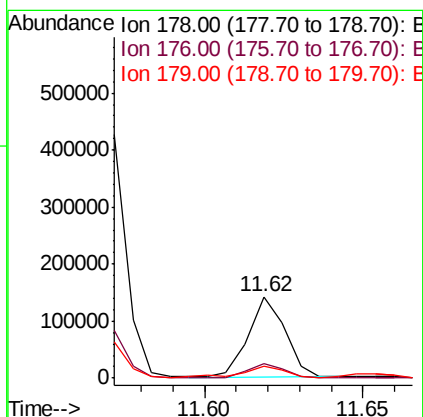
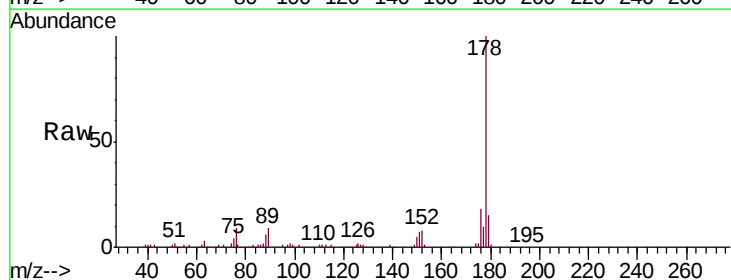
Instrument :
BNA_F
ClientSampleId :
HR-06-082018-B

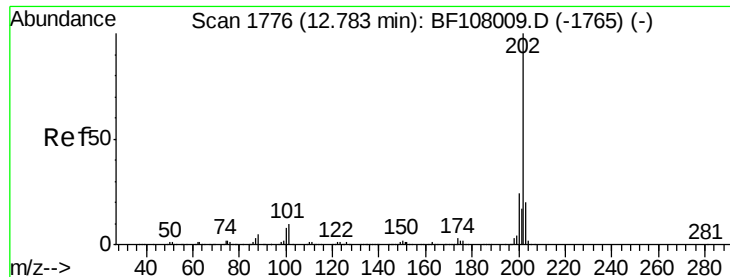
Tgt Ion:178 Resp: 387360
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 14.9 13.0 19.6



#71
Anthracene
Concen: 5.286 ng
RT: 11.62 min Scan# 1578
Delta R.T. -0.02 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

Tgt Ion:178 Resp: 114239
Ion Ratio Lower Upper
178 100
176 18.2 15.4 23.2
179 15.3 12.6 19.0

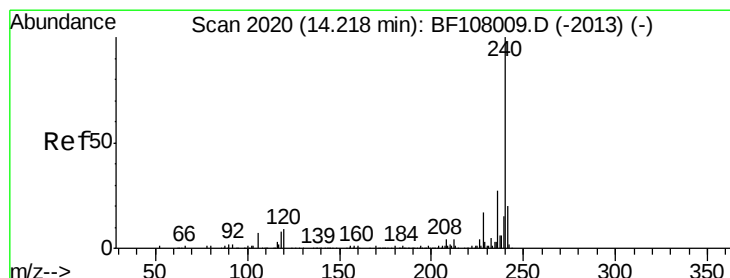
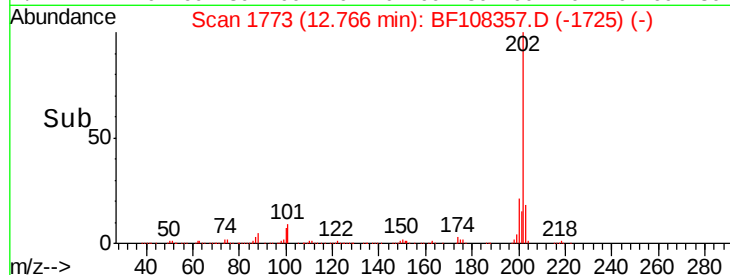
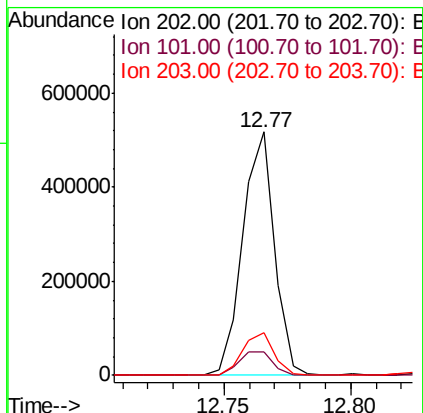
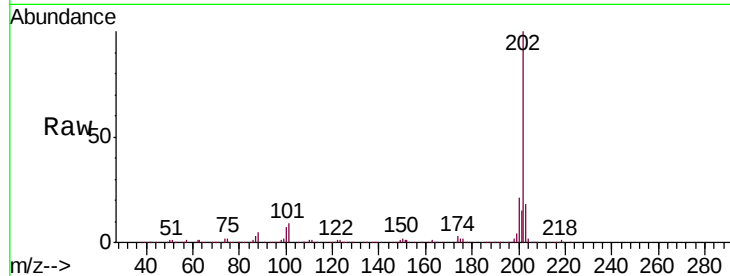




#74
 Fluoranthene
 Concen: 19.528 ng
 RT: 12.77 min Scan# 1773
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

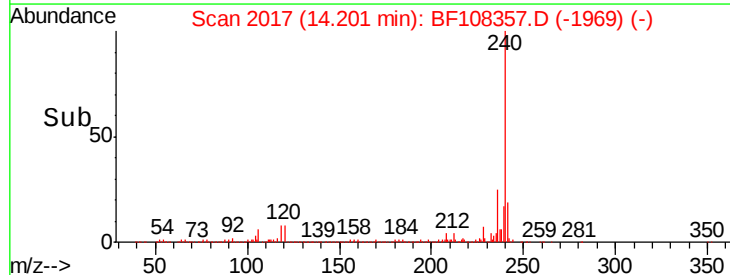
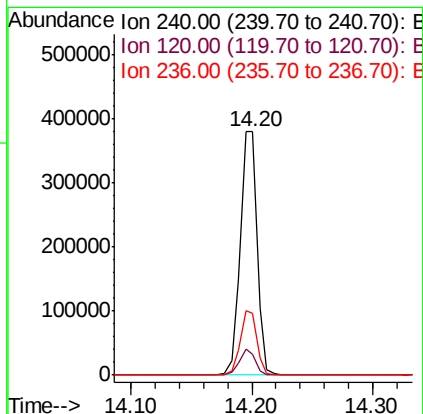
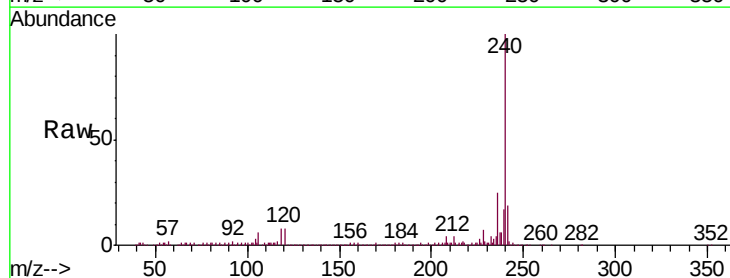
Instrument :
 BNA_F
 ClientSampleId :
 HR-06-082018-B

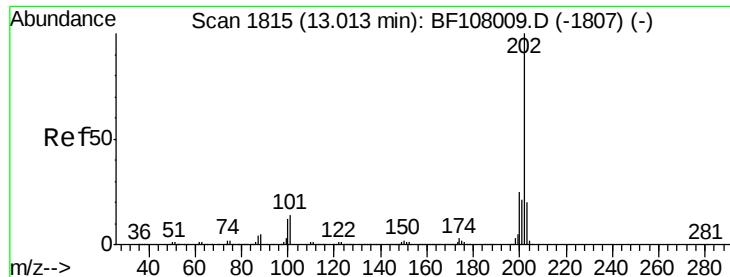
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	449365		
101	9.5	0.0	34.1	
203	17.8	0.0	38.1	



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.20 min Scan# 2017
 Delta R.T. -0.02 min
 Lab File: BF108357.D
 Acq: 22 Aug 2018 00:20

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	372208		
120	8.4	9.5	14.3#	
236	25.4	20.7	31.1	





#77

Pyrene

Concen: 17.782 ng

RT: 12.99 min Scan# 1812

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-B

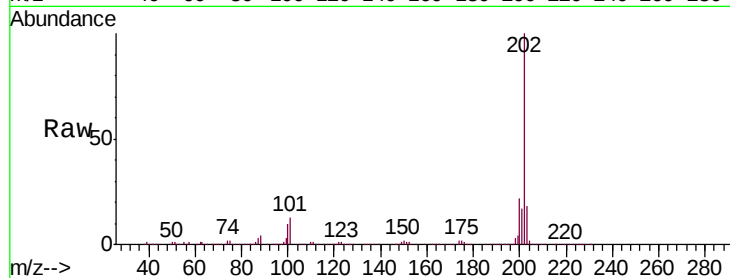
Tgt Ion: 202 Resp: 419034

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

203 18.3 14.3 21.5

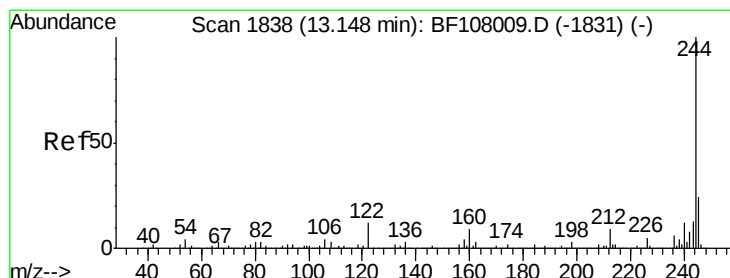
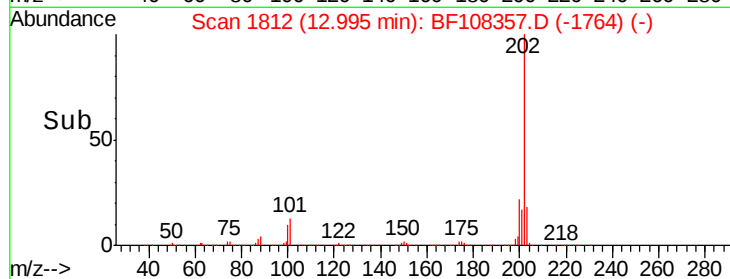
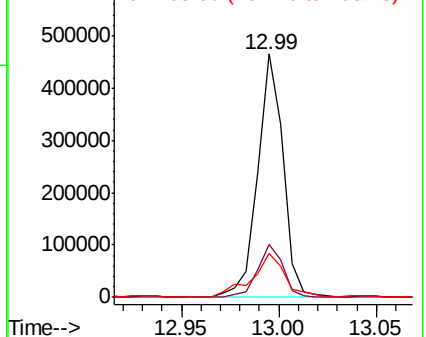


Abundance

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: 8.144 ng

RT: 13.12 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

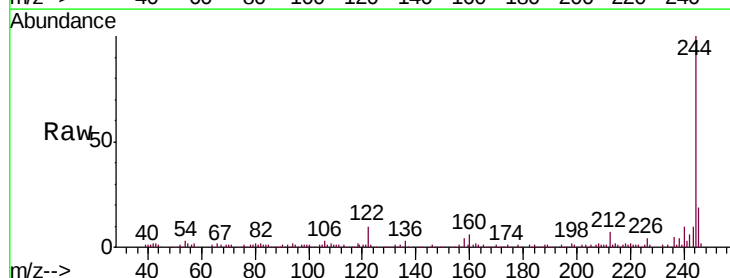
Tgt Ion: 244 Resp: 119215

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 9.6 11.0 16.4#

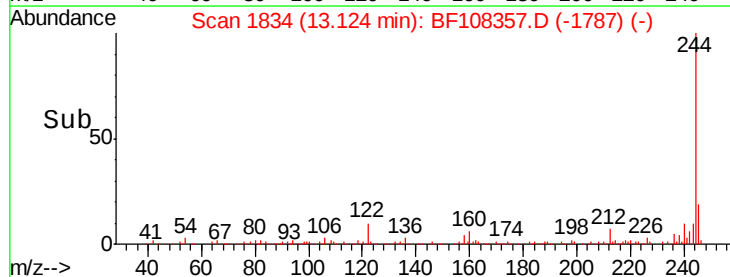
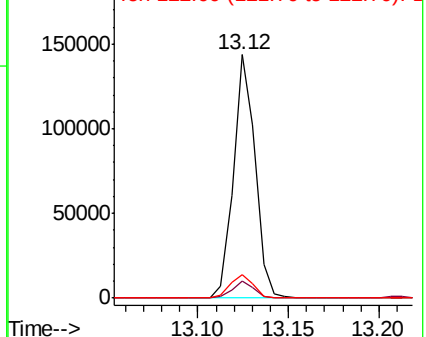


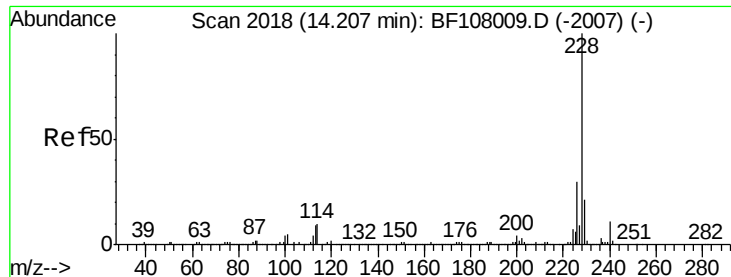
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.799 ng

RT: 14.19 min Scan# 2015

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-B

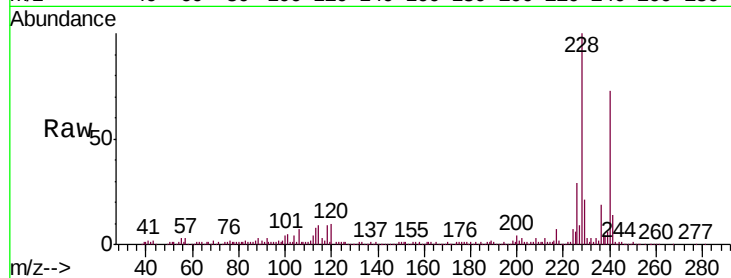
Tgt Ion:228 Resp: 209310

Ion Ratio Lower Upper

228 100

226 28.7 22.6 33.8

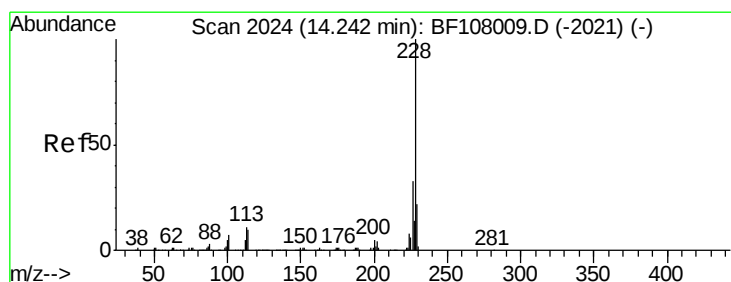
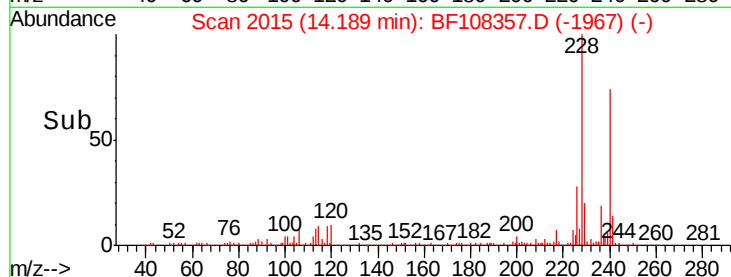
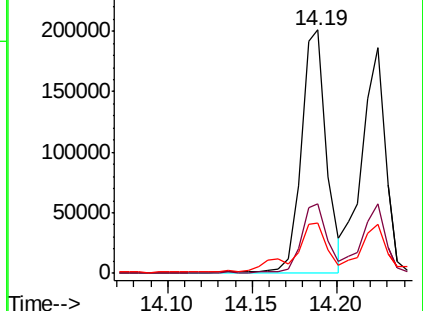
229 20.8 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 9.287 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

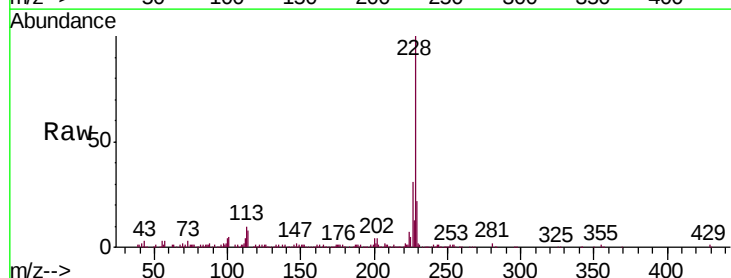
Tgt Ion:228 Resp: 181867

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

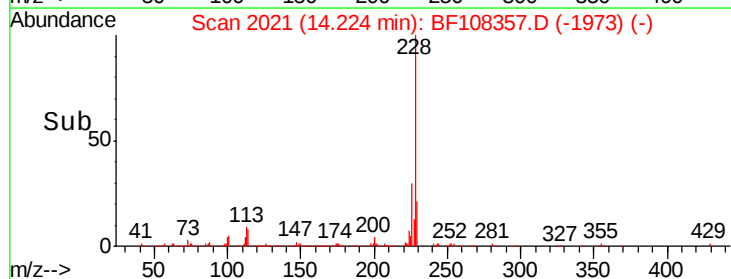
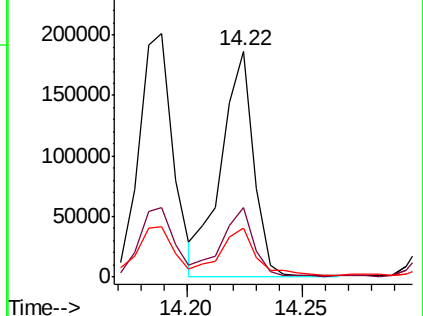
229 22.0 16.2 24.4

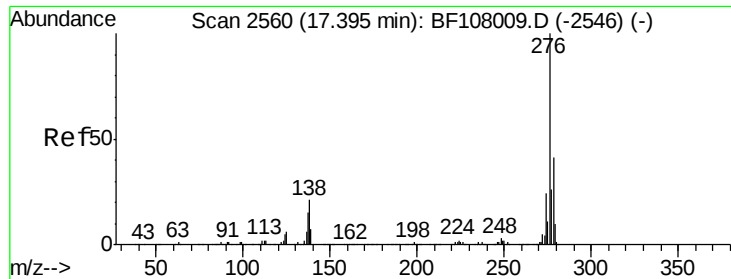


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.106 ng

RT: 17.36 min Scan# 2554

Delta R.T. -0.04 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

Instrument :

BNA_F

ClientSampleId :

HR-06-082018-B

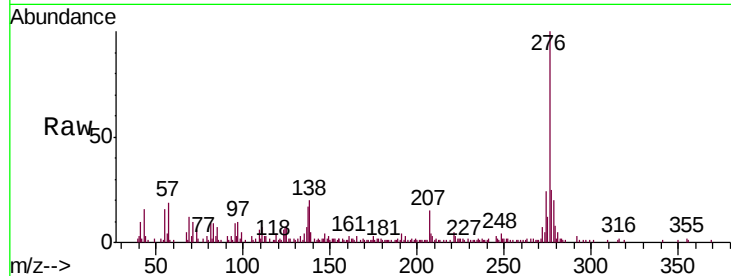
Tgt Ion:276 Resp: 69679

Ion Ratio Lower Upper

276 100

138 22.0 25.0 37.6#

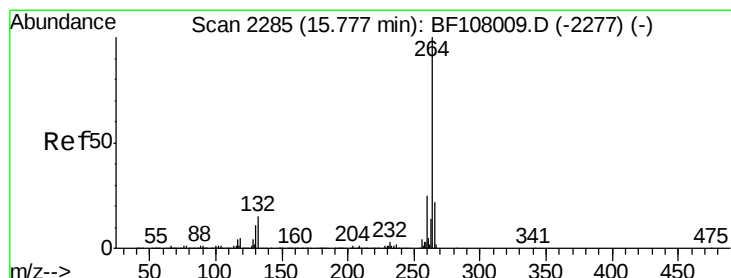
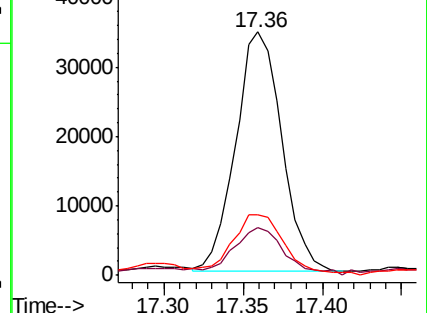
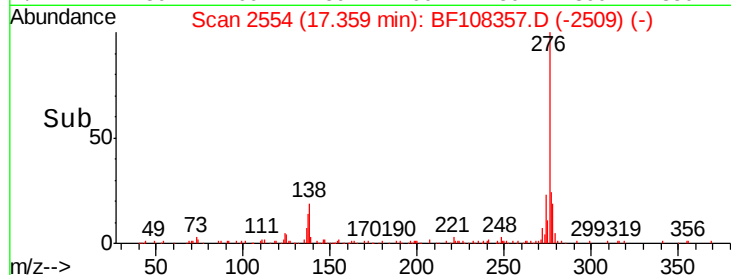
277 29.6 20.1 30.1



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: 15.75 min Scan# 2281

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

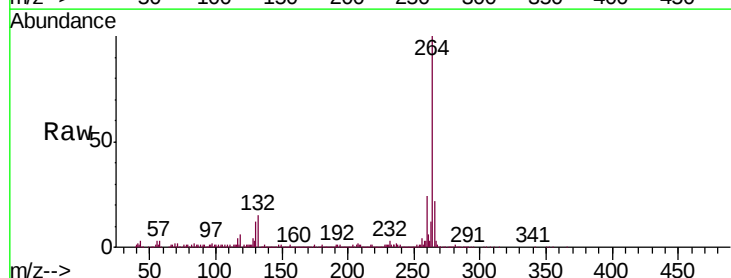
Tgt Ion:264 Resp: 323307

Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

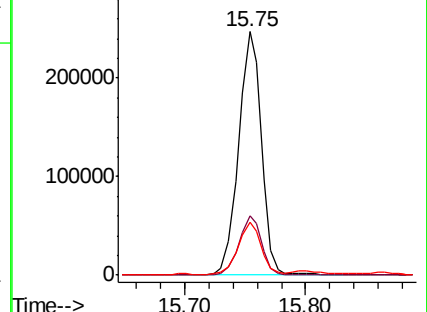
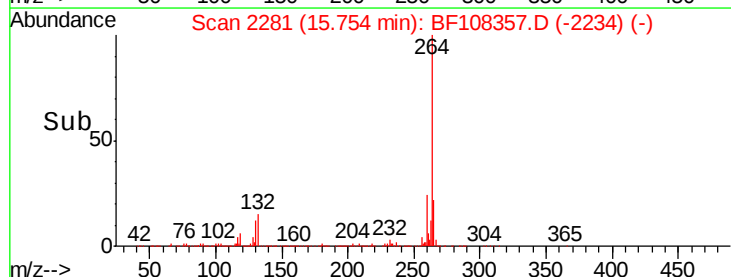
265 22.0 17.5 26.3

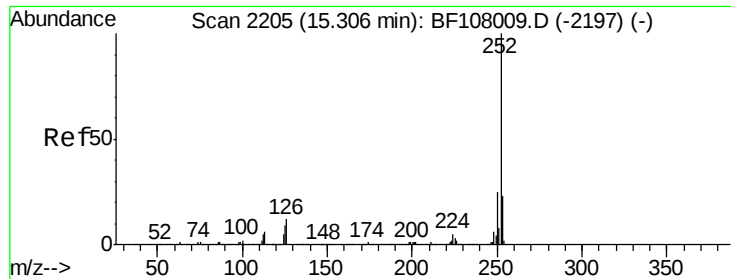


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

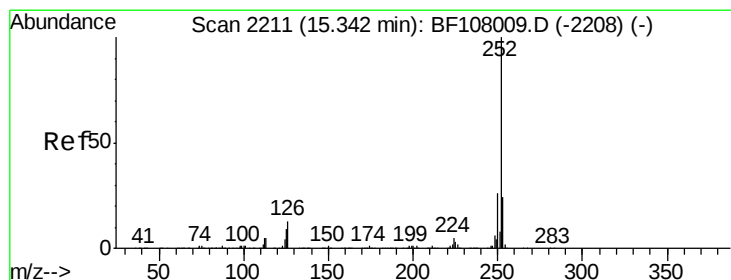
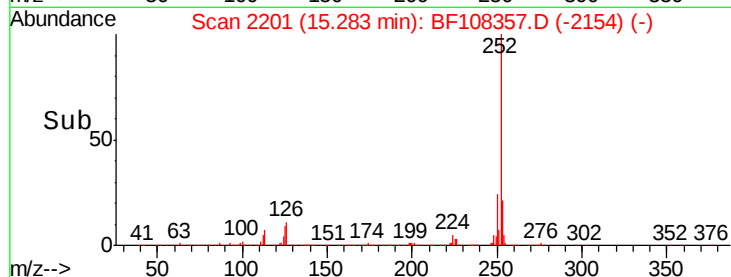
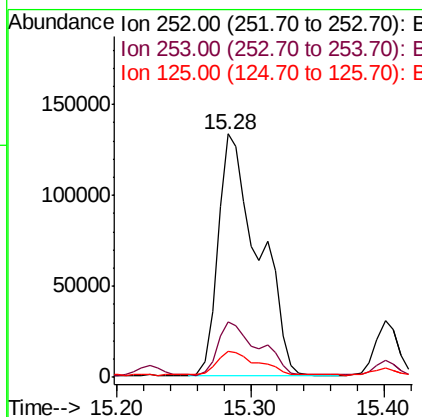
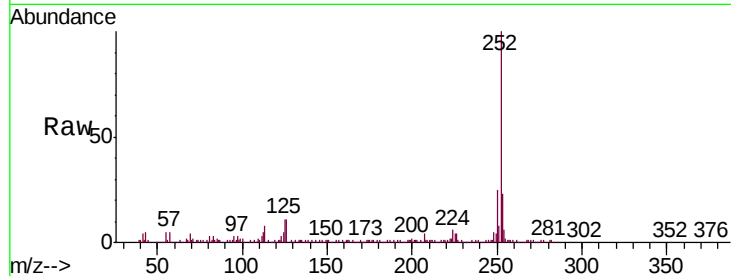




#87
Benzo(b)fluoranthene
Concen: 14.475 ng
RT: 15.28 min Scan# 2201
Delta R.T. -0.02 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

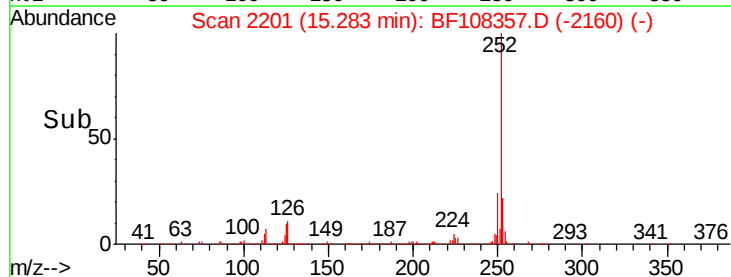
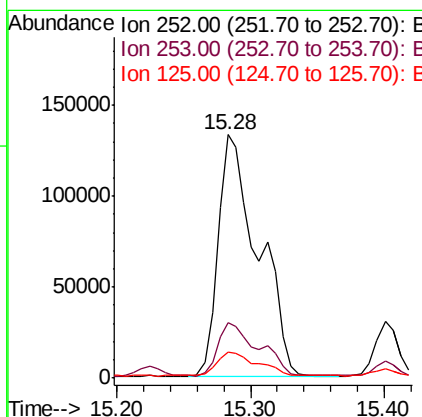
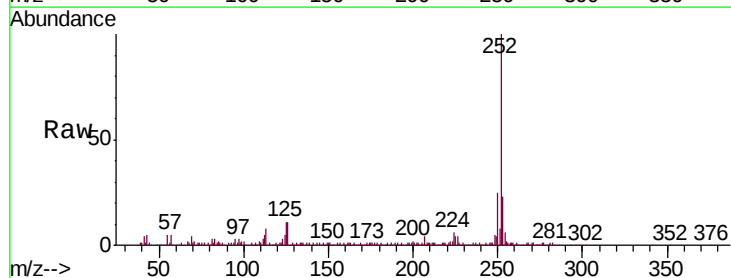
Instrument :
BNA_F
ClientSampleId :
HR-06-082018-B

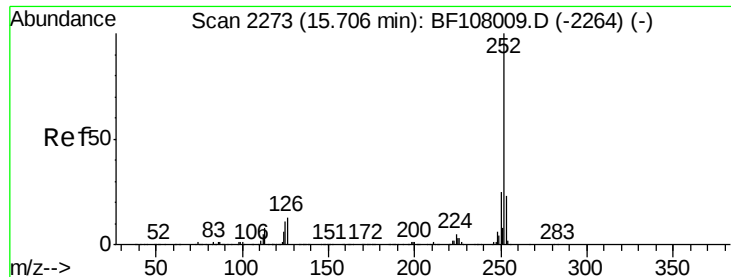
Tgt Ion:252 Resp: 279649
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.6
125 10.7 9.0 13.6



#88
Benzo(k)fluoranthene
Concen: 15.747 ng
RT: 15.28 min Scan# 2201
Delta R.T. -0.06 min
Lab File: BF108357.D
Acq: 22 Aug 2018 00:20

Tgt Ion:252 Resp: 279649
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 10.7 10.2 15.2





#89

Benzo(a)pyrene

Concen: 8.932 ng

RT: 15.68 min Scan# 2269

Delta R.T. -0.02 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

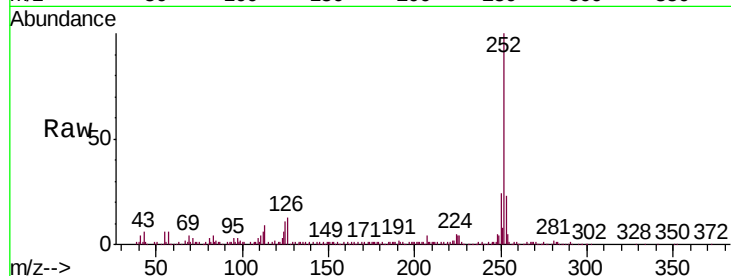
Instrument :

BNA_F

ClientSampleId :

HR-06-082018-B

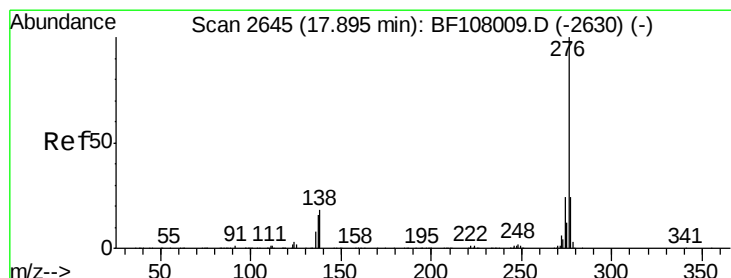
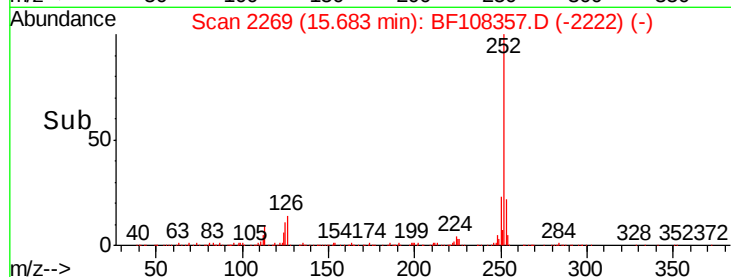
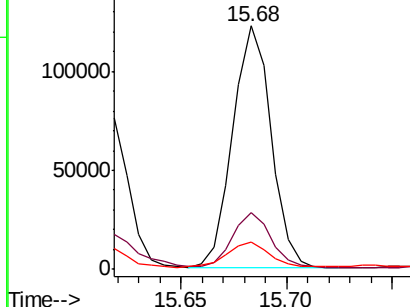
Tgt Ion:	252	Resp:	154517
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	11.3	9.8	14.6



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: 4.424 ng

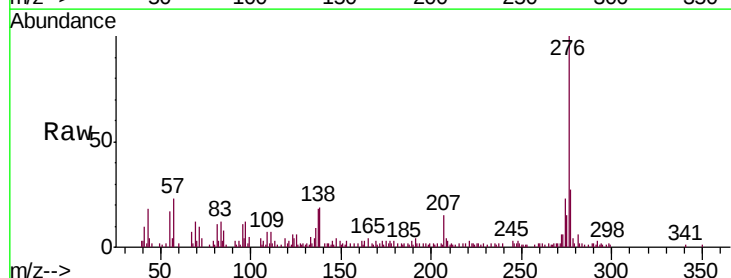
RT: 17.85 min Scan# 2638

Delta R.T. -0.04 min

Lab File: BF108357.D

Acq: 22 Aug 2018 00:20

Tgt Ion:	276	Resp:	62359
Ion	Ratio	Lower	Upper
276	100		
277	26.6	17.9	26.9
138	18.8	21.8	32.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

