

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
 Data File : BF108703.D
 Acq On : 31 Aug 2018 21:38
 Operator : JU/SJ
 Sample : J4712-06 4X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 01 03:49:24 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 30 15:06:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	52237	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	241962	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	105978	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	217868	20.00	ng	0.00
75) Chrysene-d12	14.19	240	218050	20.00	ng	0.00
86) Perylene-d12	15.76	264	165312	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.71	112	2915	0.97	ng	0.07
7) Phenol-d6	6.69	99	17237	4.00	ng	0.04
23) Nitrobenzene-d5	7.61	82	14492	3.04	ng	0.04
41) 2,4,6-Tribromophenol	10.84	330	17288	12.36	ng	0.00
44) 2-Fluorobiphenyl	9.35	172	87281	11.07	ng	0.00
78) Terphenyl-d14	13.12	244	109431	9.75	ng	-0.01

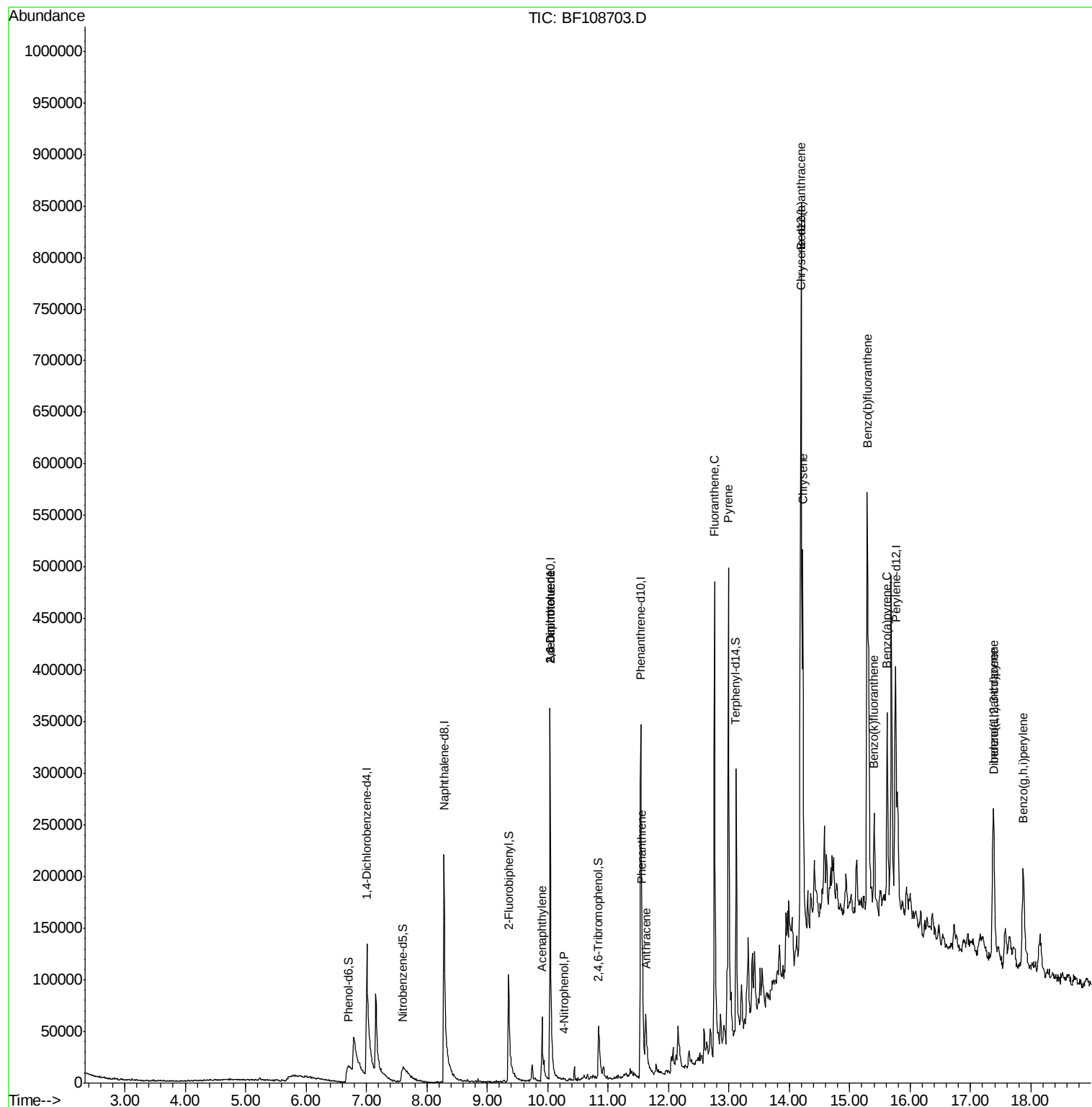
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.91	152	55784	5.275	ng	100
50) 2,6-Dinitrotoluene	10.04	165	13263	7.210	ng	# 24
55) 4-Nitrophenol	10.26	139	107	4.839	ng	# 9
56) 2,4-Dinitrotoluene	10.04	165	13705	5.627	ng	# 21
70) Phenanthrene	11.57	178	46917	4.266	ng	98
71) Anthracene	11.62	178	56114	4.856	ng	98
74) Fluoranthene	12.76	202	264574	21.374	ng	93
77) Pyrene	13.00	202	276363	16.860	ng	97
80) Benzo(a)anthracene	14.18	228	221657	16.675	ng	99
82) Chrysene	14.22	228	175418	13.722	ng	98
85) Indeno(1,2,3-cd)pyrene	17.38	276	128802	14.491	ng	# 81
87) Benzo(b)fluoranthene	15.29	252	392519	38.653	ng	96
88) Benzo(k)fluoranthene	15.41	252	55789	5.546	ng	94
89) Benzo(a)pyrene	15.62	252	123177	13.422	ng	96
90) Dibenzo(a,h)anthracene	17.39	278	26605	3.630	ng	# 88
91) Benzo(g,h,i)perylene	17.87	276	112119	15.739	ng	# 87

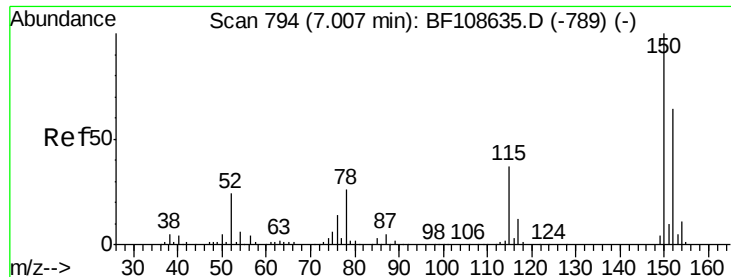
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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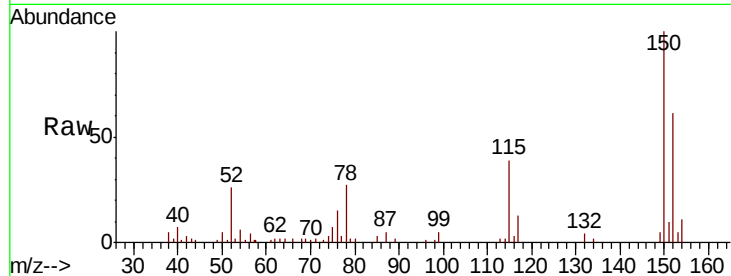


#1

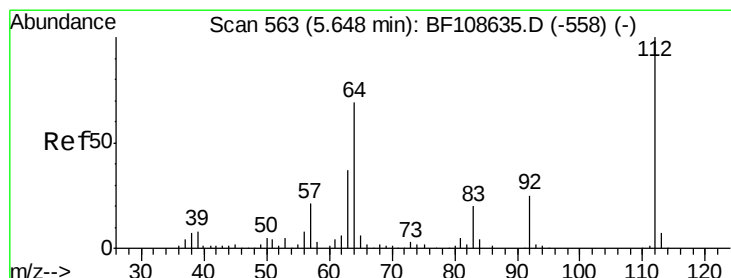
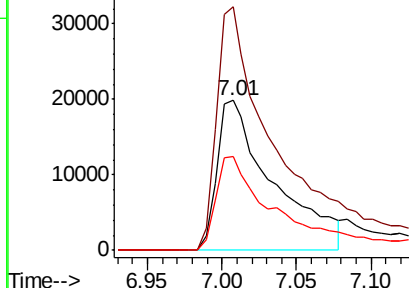
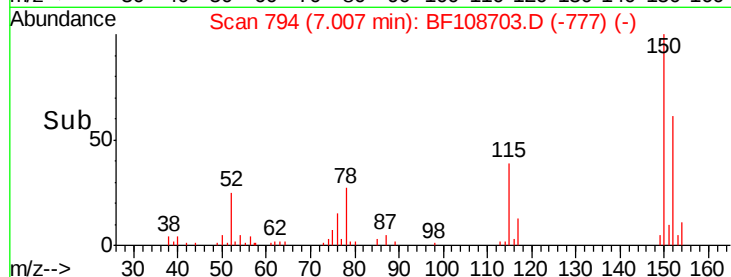
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 794
Delta R.T. 0.00 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 52237
Ion Ratio Lower Upper
152 100
150 162.7 124.6 186.8
115 62.9 50.1 75.1



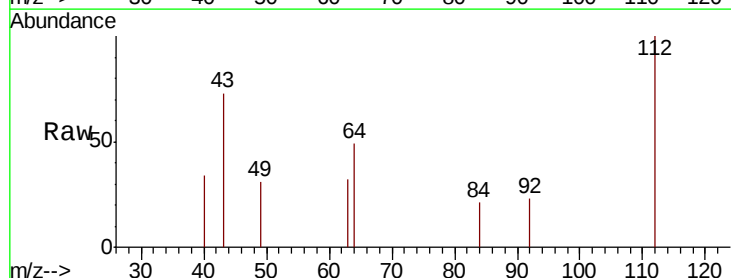
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



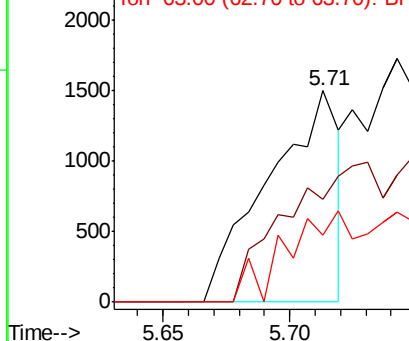
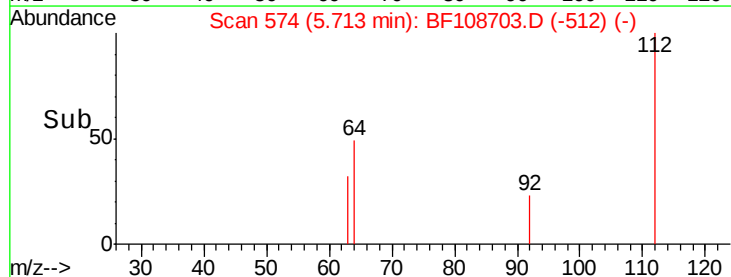
#5

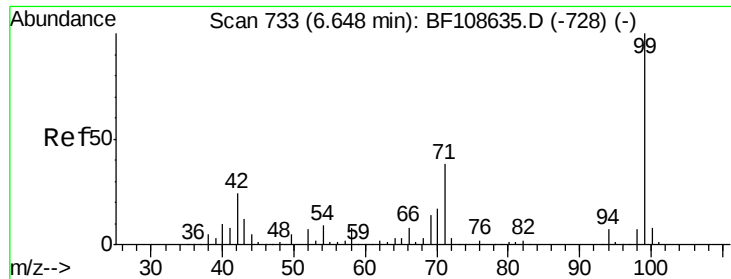
2-Fluorophenol
Concen: 0.969 ng
RT: 5.71 min Scan# 574
Delta R.T. 0.07 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Tgt Ion:112 Resp: 2915
Ion Ratio Lower Upper
112 100
64 48.7 47.9 71.9
63 31.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.002 ng

RT: 6.69 min Scan# 740

Delta R.T. 0.04 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Instrument :

BNA_F

ClientSampleId :

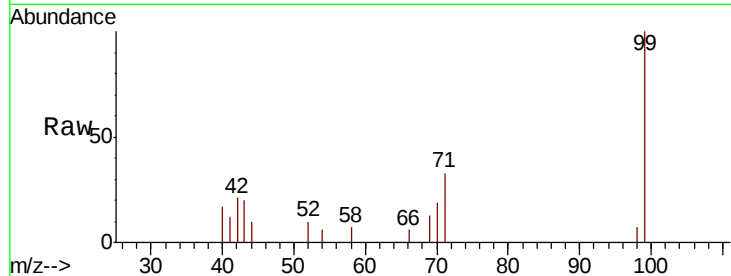
Tot Ion: 99 Resp: 17237

Ion Ratio Lower Upper

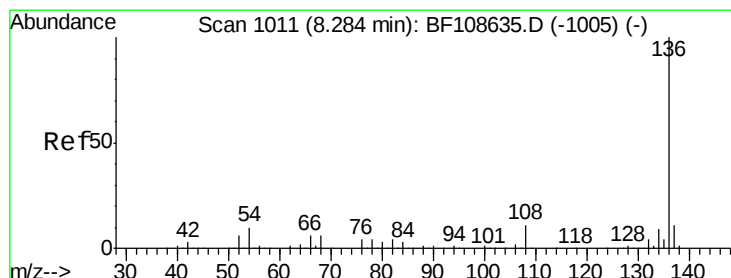
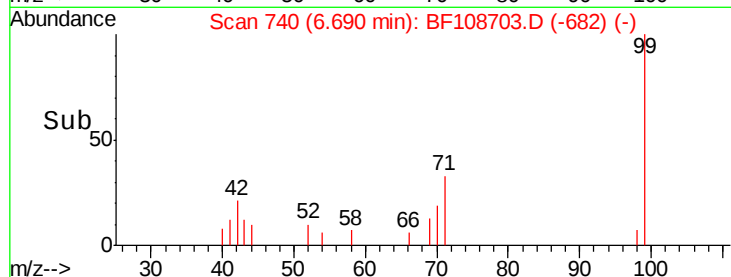
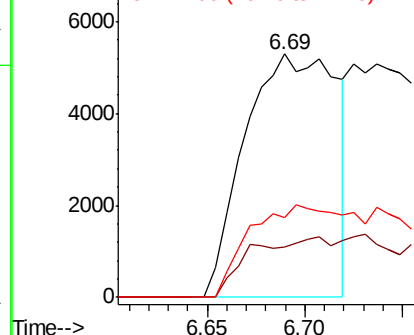
99 100

42 20.7 14.5 21.7

71 32.7 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: 8.28 min Scan# 1011

Delta R.T. 0.00 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Tgt Ion: 136 Resp: 241962

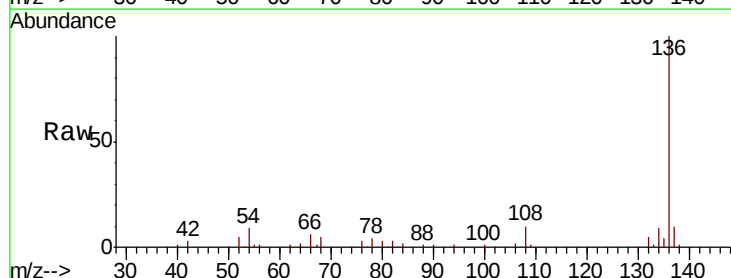
Ion Ratio Lower Upper

136 100

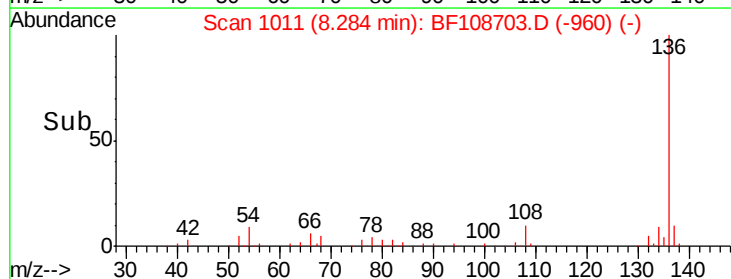
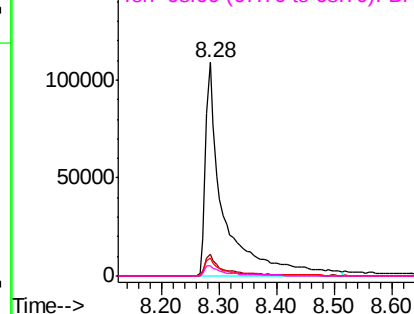
137 10.4 8.9 13.3

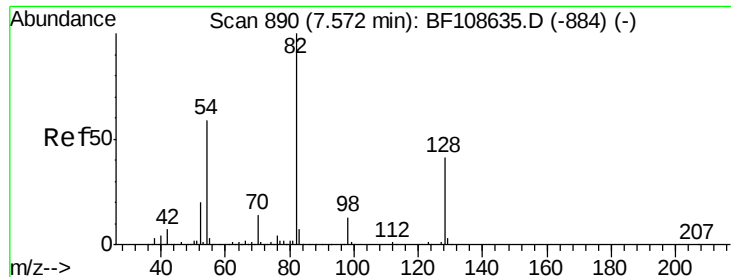
54 8.6 6.6 9.8

68 4.9 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

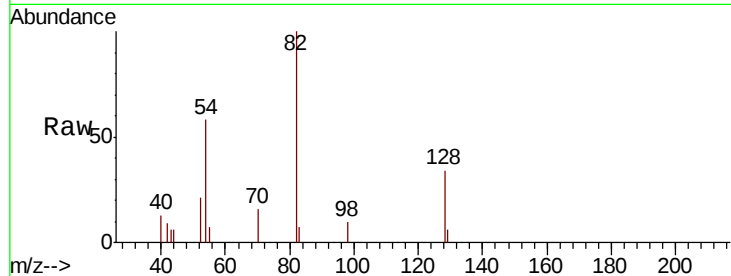




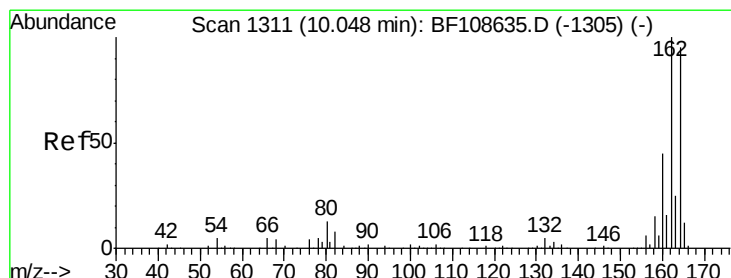
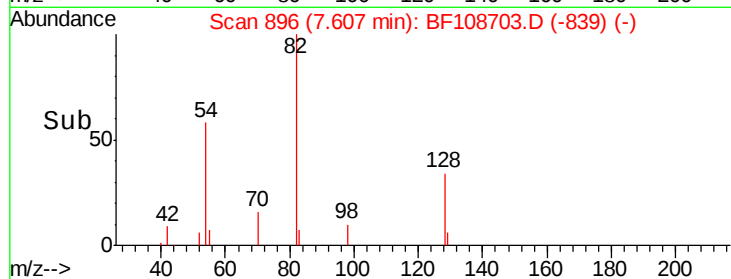
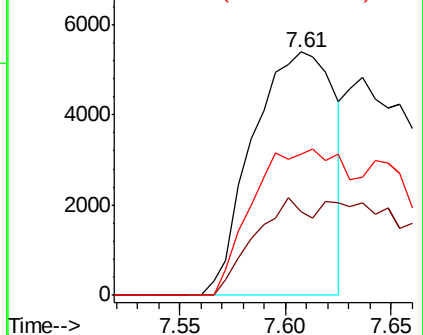
#23
Nitrobenzene-d5
Concen: 3.040 ng
RT: 7.61 min Scan# 896
Delta R.T. 0.04 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 14492
Ion Ratio Lower Upper
82 100
128 34.3 36.1 54.1#
54 58.2 41.4 62.2

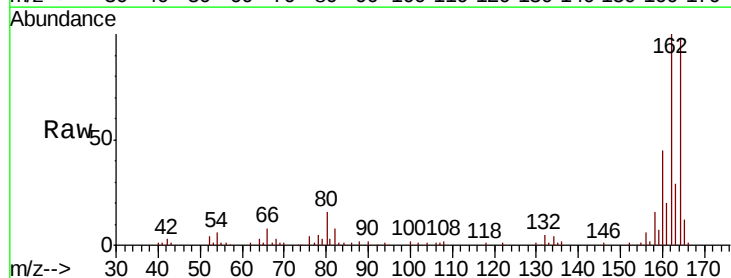


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

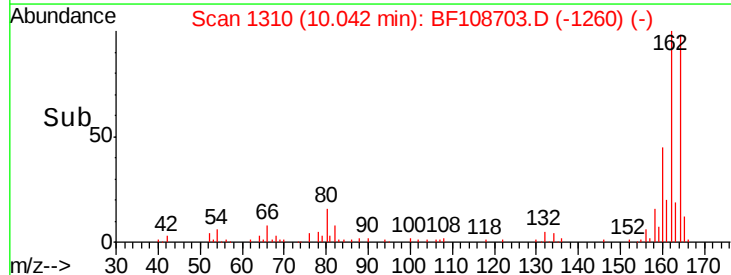
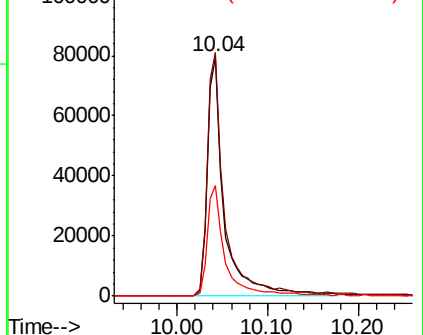


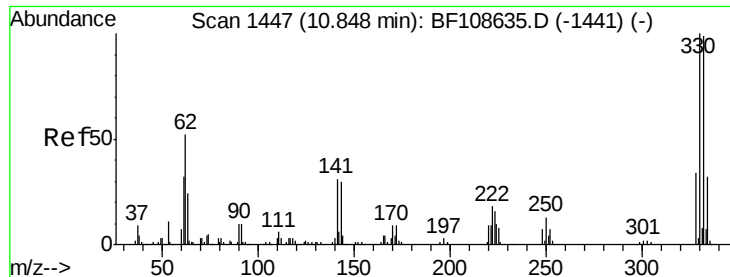
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.04 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Tgt Ion:164 Resp: 105978
Ion Ratio Lower Upper
164 100
162 102.1 86.1 129.1
160 46.1 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

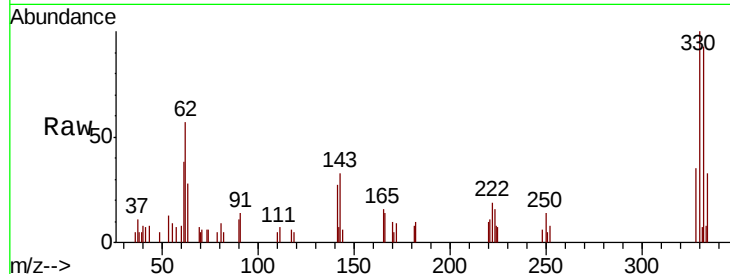




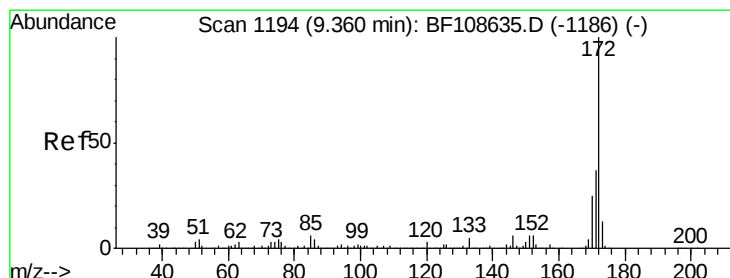
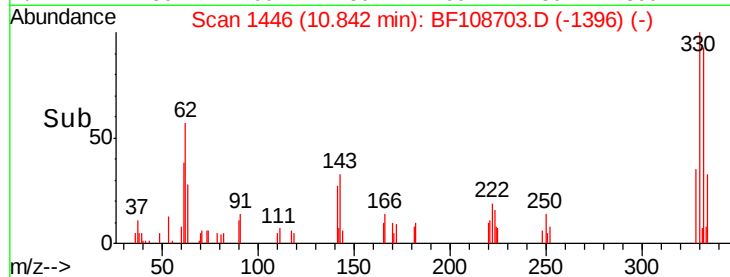
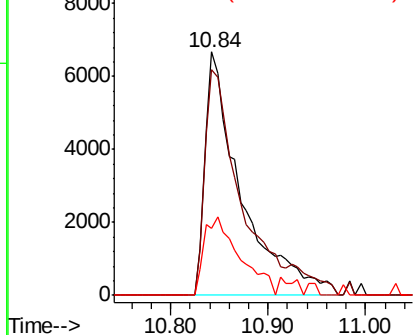
#41
 2,4,6-Tribromophenol
 Concen: 12.357 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.01 min
 Lab File: BF108703.D
 Acq: 31 Aug 2018 21:38

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 17288
 Ion Ratio Lower Upper
 330 100
 332 96.8 77.0 115.6
 141 31.6 29.9 44.9

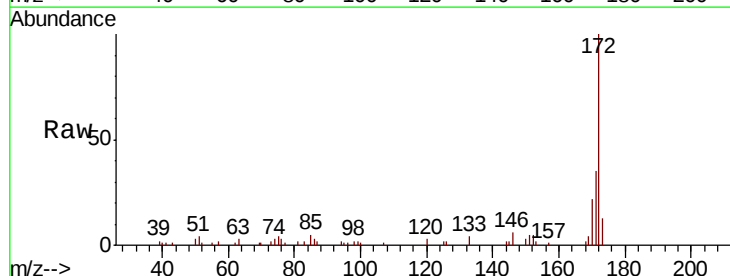


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

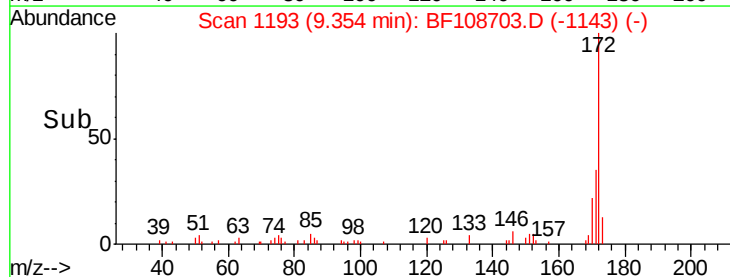
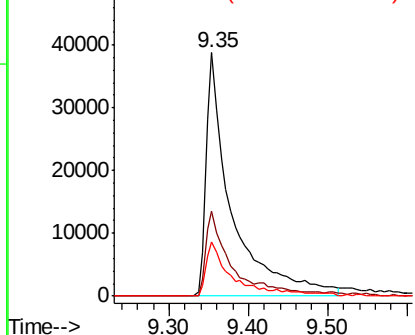


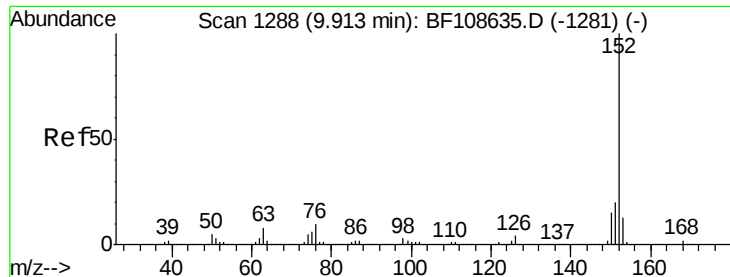
#44
 2-Fluorobiphenyl
 Concen: 11.074 ng
 RT: 9.35 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF108703.D
 Acq: 31 Aug 2018 21:38

Tgt Ion:172 Resp: 87281
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.7 44.5
 170 22.2 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





#48

Acenaphthylene

Concen: 5.275 ng

RT: 9.91 min Scan# 1287

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Instrument :

BNA_F

ClientSampleId :

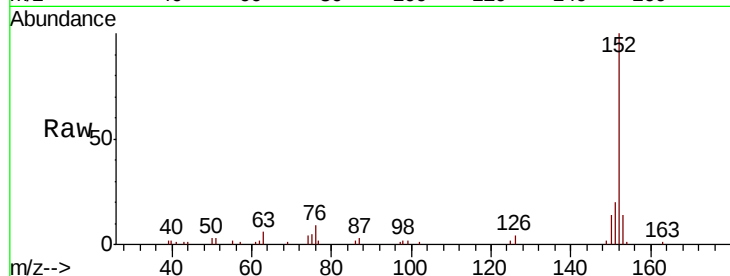
Tot Ion:152 Resp: 55784

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

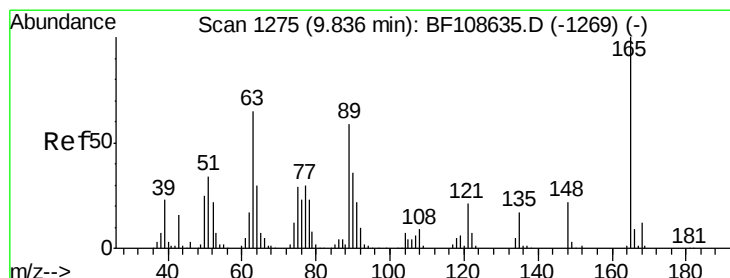
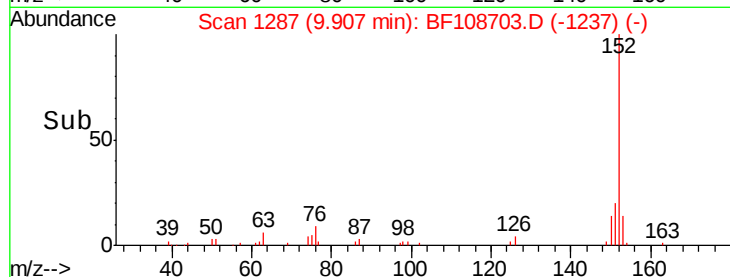
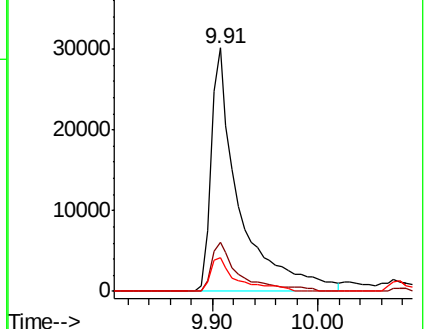
153 13.6 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 7.210 ng

RT: 10.04 min Scan# 1310

Delta R.T. 0.21 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

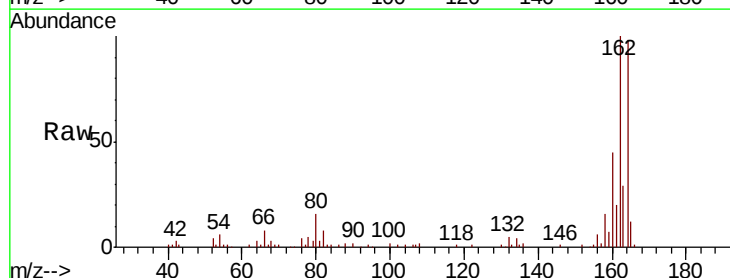
Tgt Ion:165 Resp: 13263

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

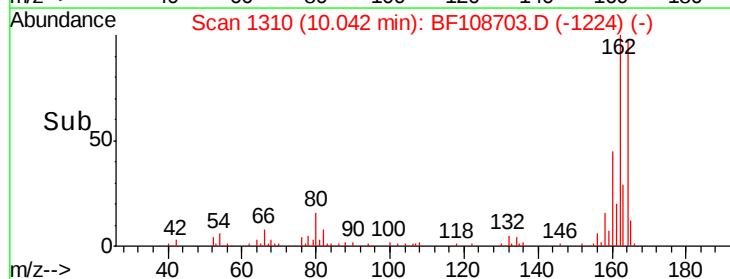
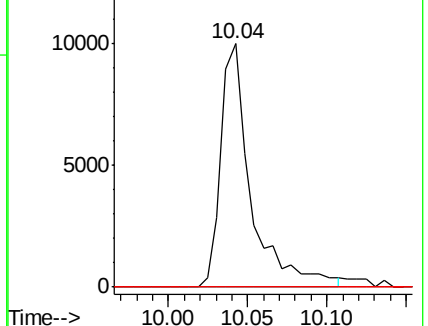
89 0.0 44.0 66.0#

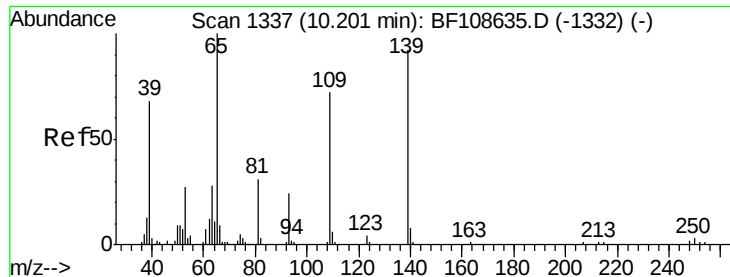


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

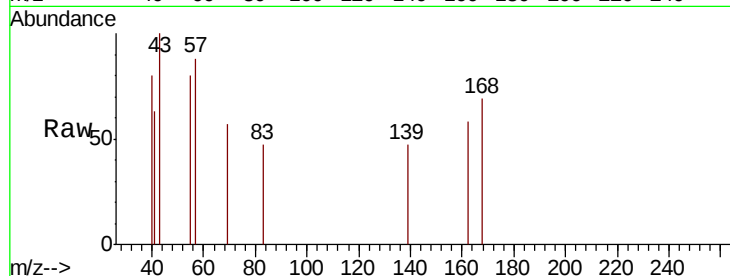




#55
4-Nitrophenol
Concen: 4.839 ng
RT: 10.26 min Scan# 1347
Delta R.T. 0.06 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Instrument :
BNA_F
ClientSampleId :

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



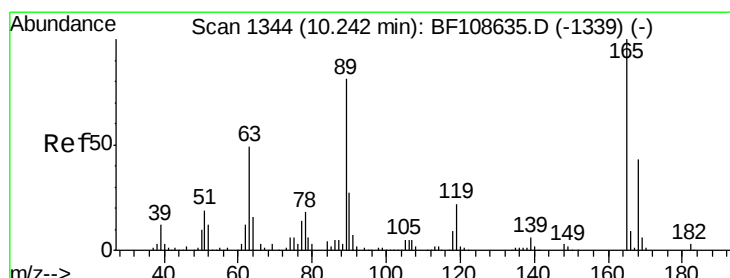
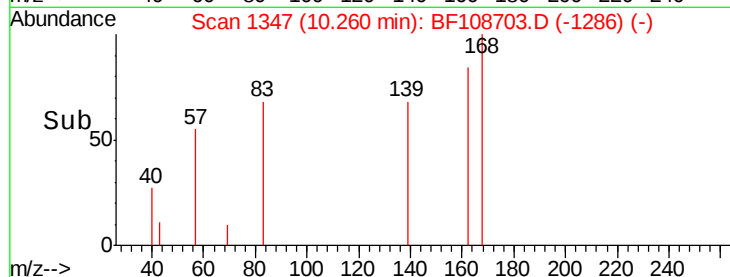
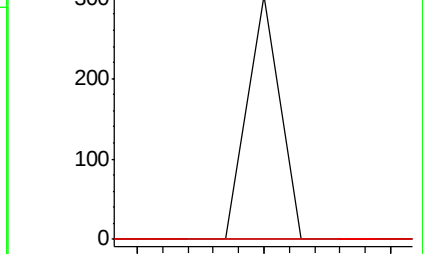
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

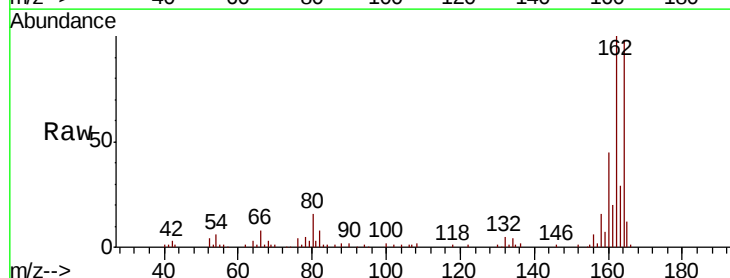
Ion 65.00 (64.70 to 65.70): BF1

10.26



#56
2,4-Dinitrotoluene
Concen: 5.627 ng
RT: 10.04 min Scan# 1310
Delta R.T. -0.20 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

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



Abundance

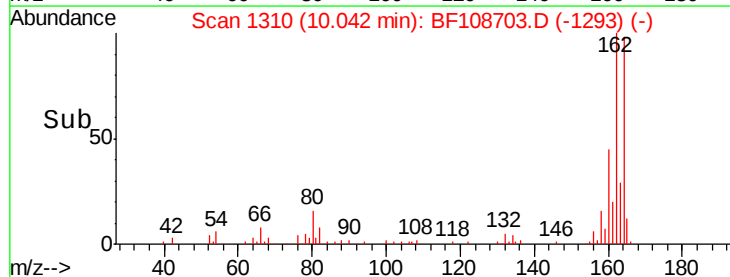
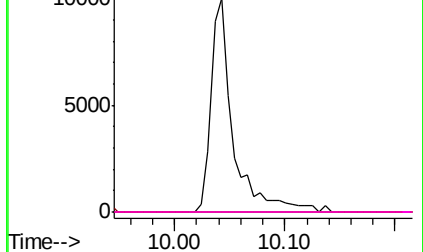
Ion 165.00 (164.70 to 165.70): E

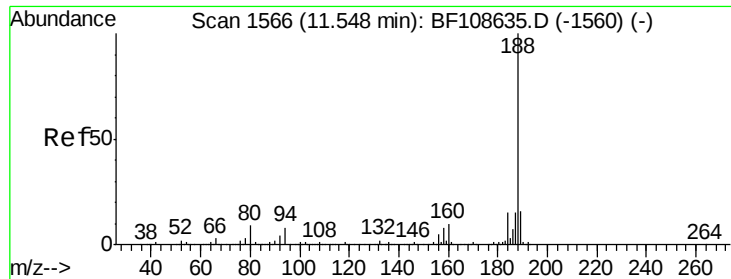
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

10.04

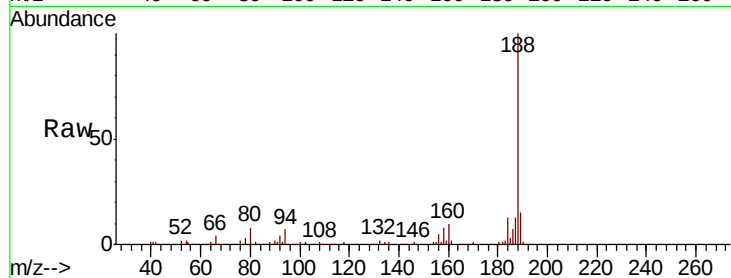




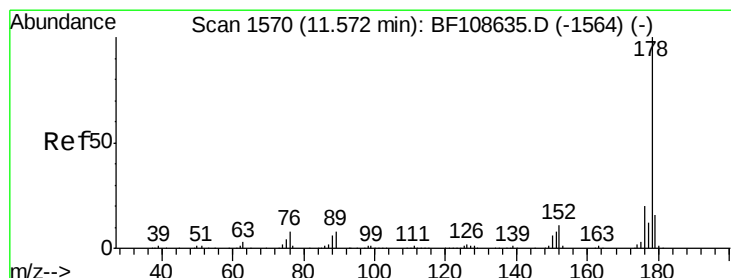
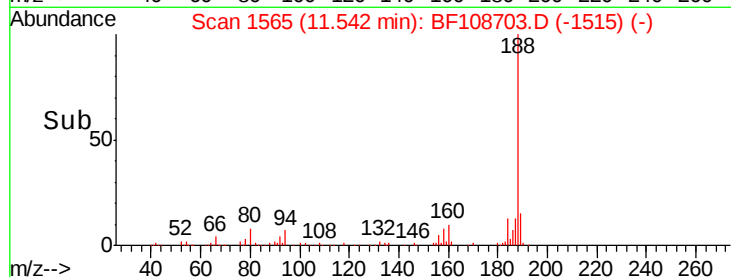
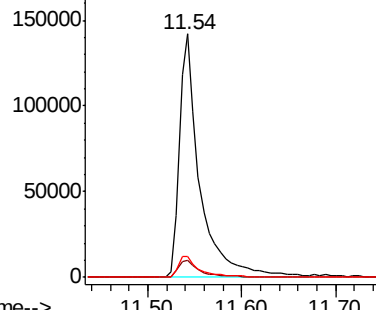
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.54 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 217868
Ion Ratio Lower Upper
188 100
94 7.2 8.5 12.7#
80 8.4 9.2 13.8#

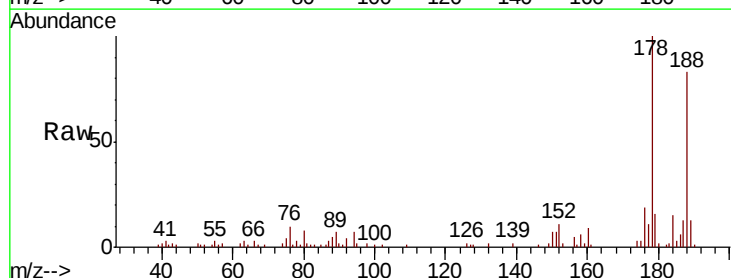


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

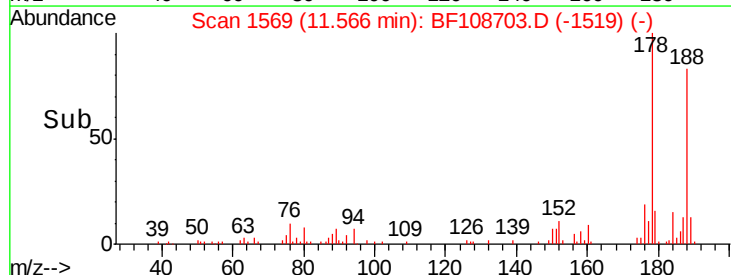
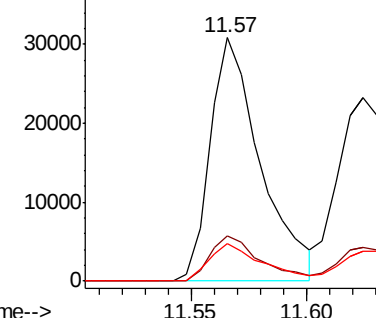


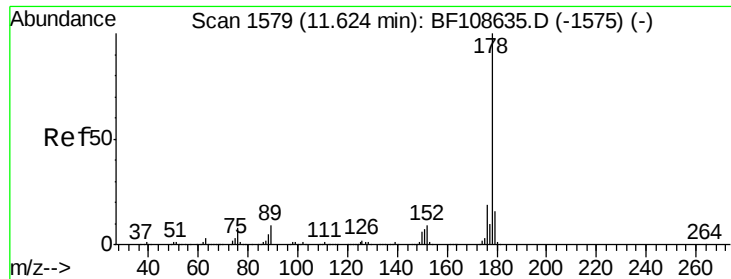
#70
Phenanthrene
Concen: 4.266 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Tgt Ion:178 Resp: 46917
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 15.6 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

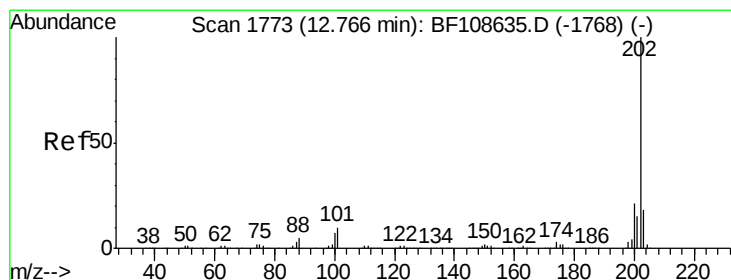
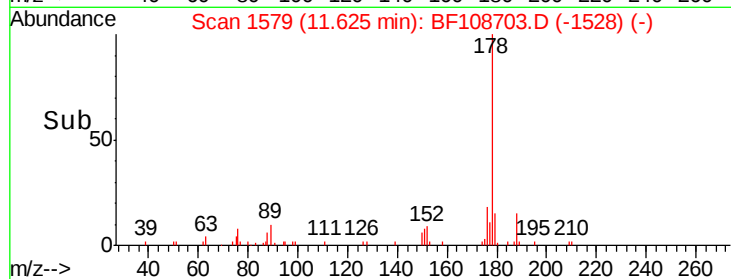
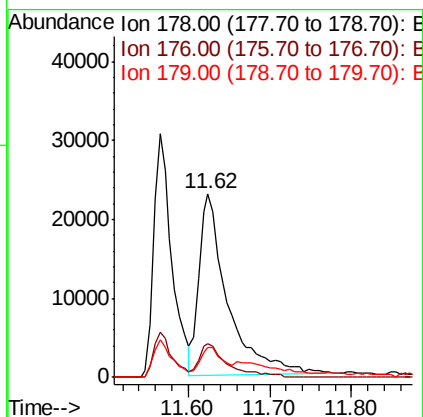
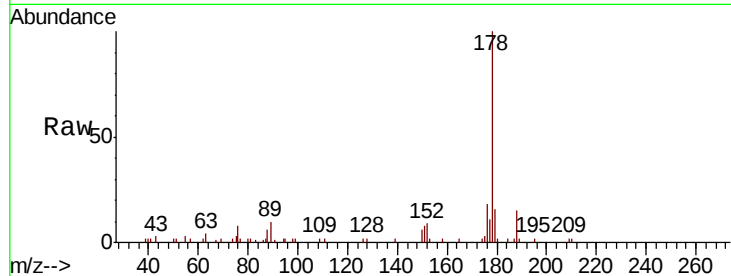




#71
 Anthracene
 Concen: 4.856 ng
 RT: 11.62 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: BF108703.D
 Acq: 31 Aug 2018 21:38

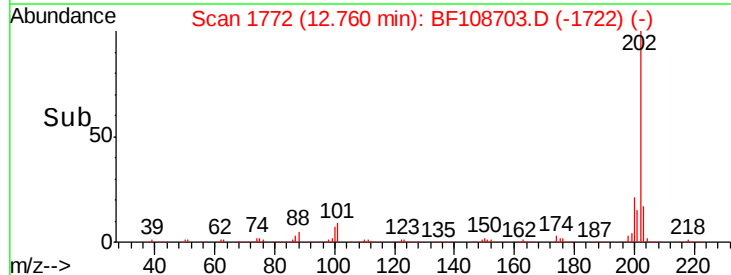
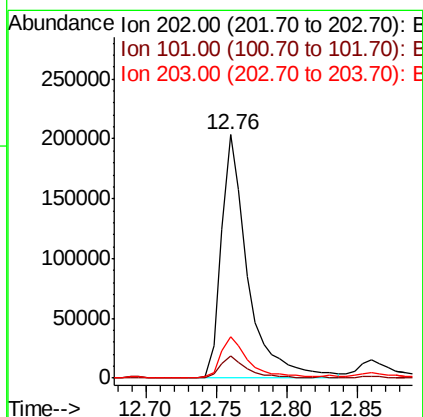
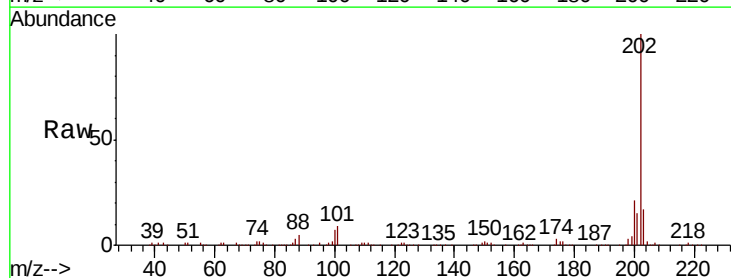
Instrument :
 BNA_F
 ClientSampleId :

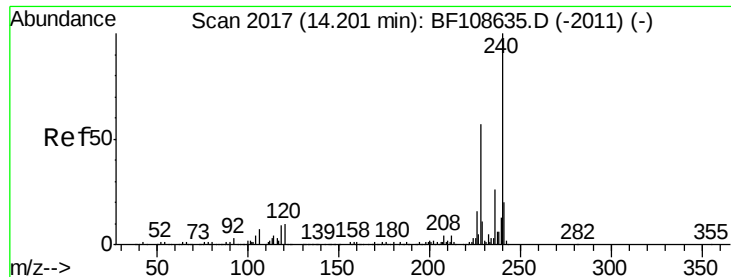
Tot Ion:178 Resp: 56114
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.4 23.2
 179 16.0 12.6 19.0



#74
 Fluoranthene
 Concen: 21.374 ng
 RT: 12.76 min Scan# 1772
 Delta R.T. -0.01 min
 Lab File: BF108703.D
 Acq: 31 Aug 2018 21:38

Tgt Ion:202 Resp: 264574
 Ion Ratio Lower Upper
 202 100
 101 9.1 0.0 34.1
 203 17.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.19 min Scan# 2016

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Instrument :

BNA_F

ClientSampleId :

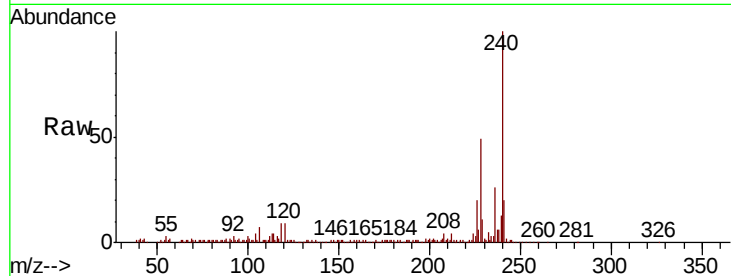
Tot Ion:240 Resp: 218050

Ion Ratio Lower Upper

240 100

120 9.3 9.5 14.3#

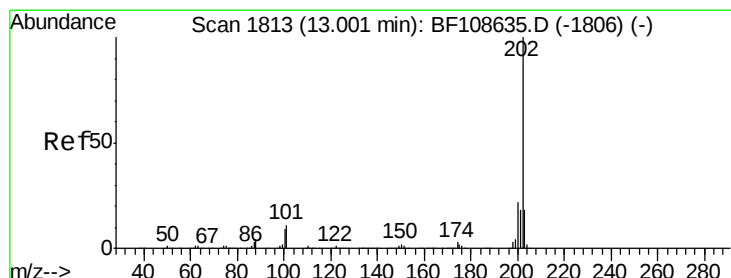
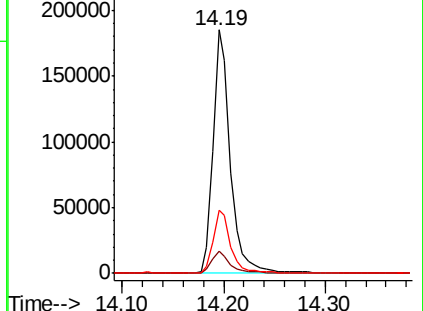
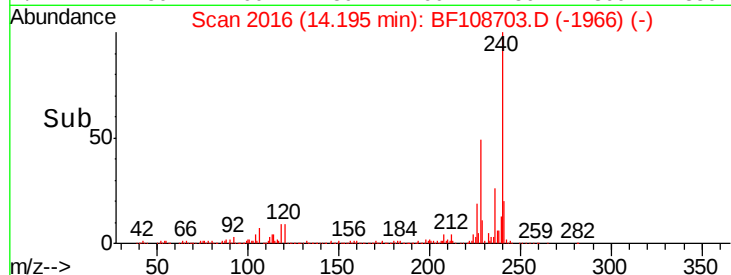
236 25.9 20.7 31.1



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: 16.860 ng

RT: 13.00 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

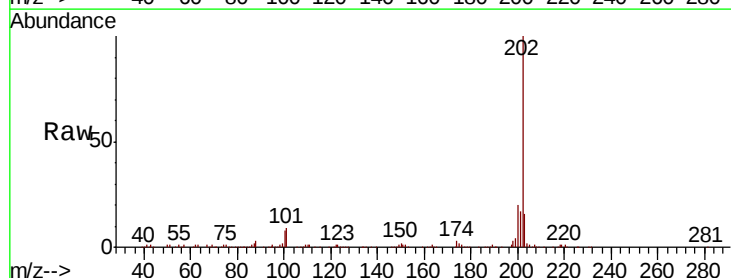
Tgt Ion:202 Resp: 276363

Ion Ratio Lower Upper

202 100

200 20.4 17.4 26.2

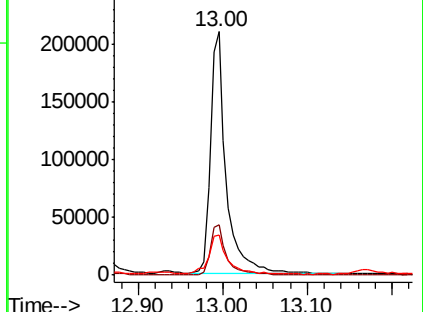
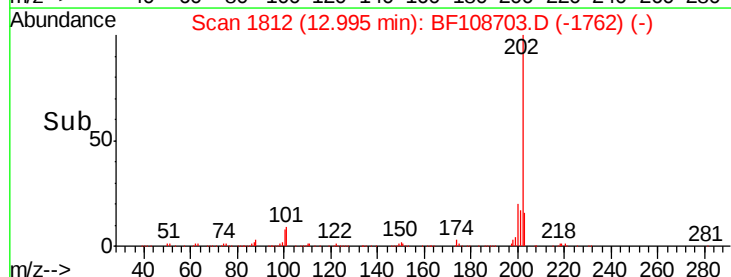
203 16.4 14.3 21.5

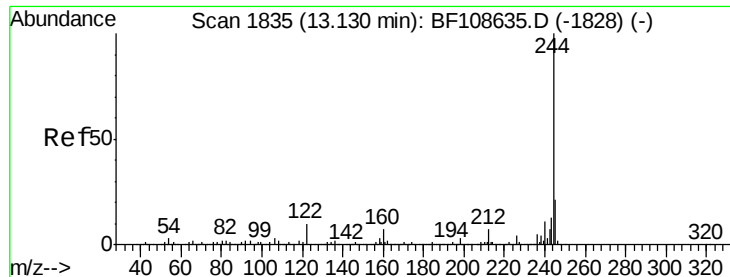


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 9.751 ng

RT: 13.12 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Instrument :

BNA_F

ClientSampleId :

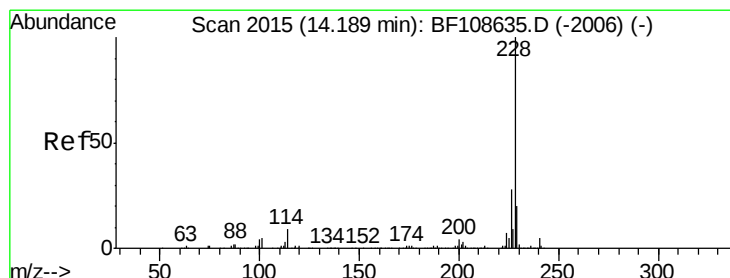
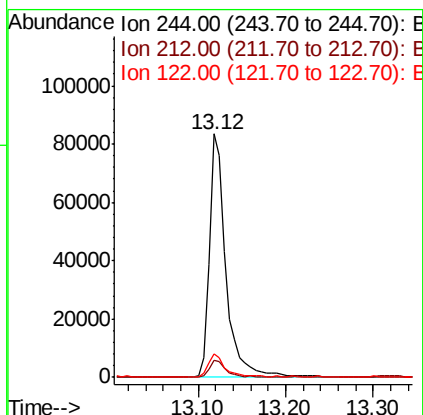
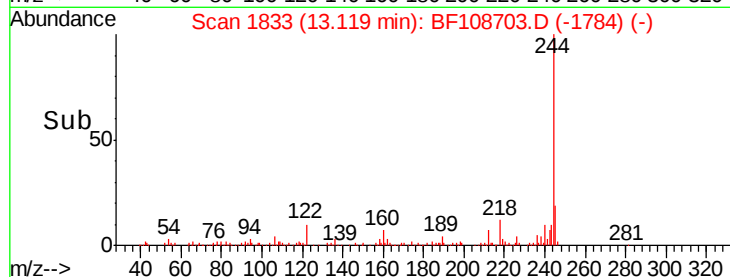
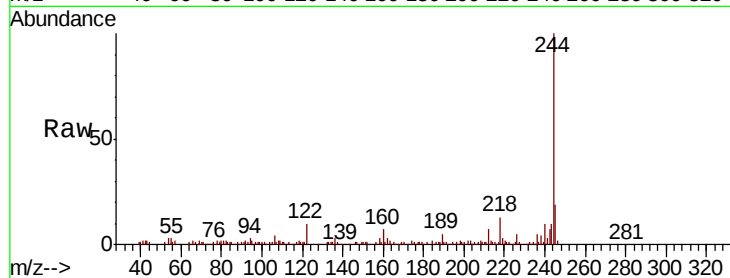
Tot Ion:244 Resp: 109431

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

122 9.8 11.0 16.4#



#80

Benzo(a)anthracene

Concen: 16.675 ng

RT: 14.18 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

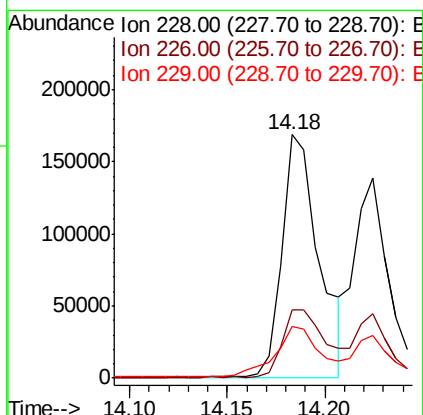
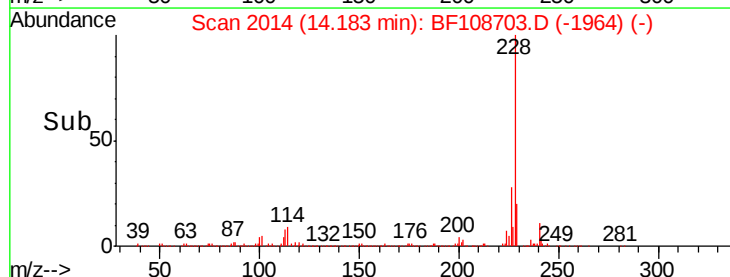
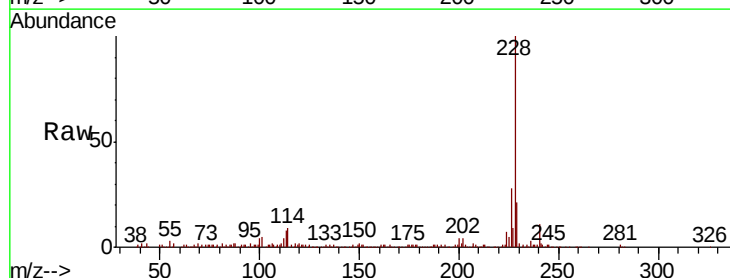
Tgt Ion:228 Resp: 221657

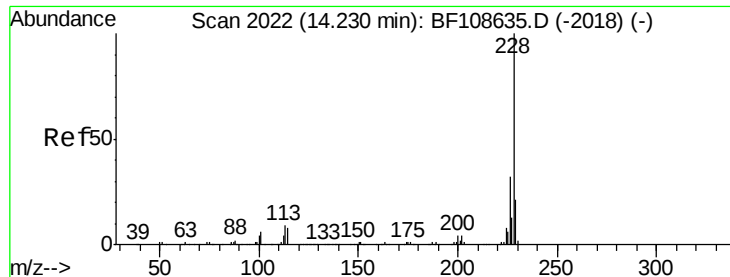
Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 21.1 15.8 23.6





#82

Chrysene

Concen: 13.722 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Instrument :

BNA_F

ClientSampleId :

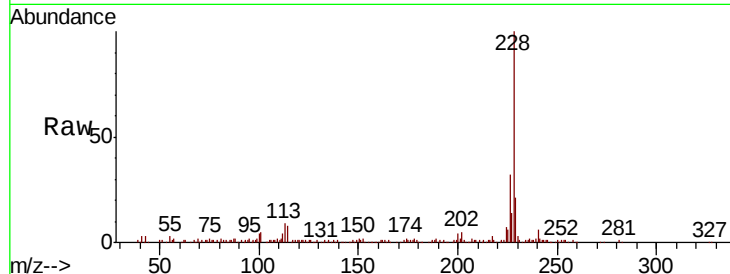
Tot Ion:228 Resp: 175418

Ion Ratio Lower Upper

228 100

226 32.0 25.0 37.6

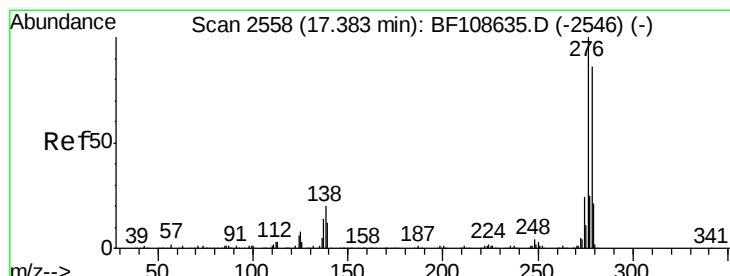
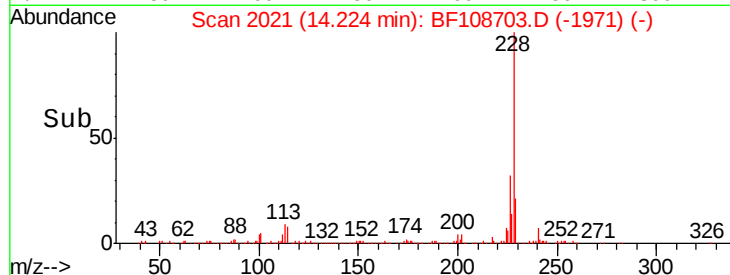
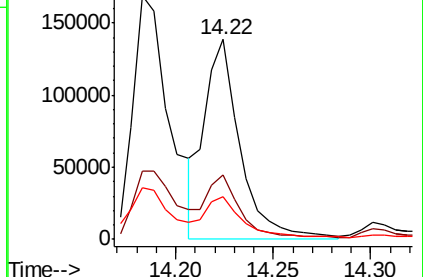
229 21.5 16.2 24.4



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: 14.491 ng

RT: 17.38 min Scan# 2557

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

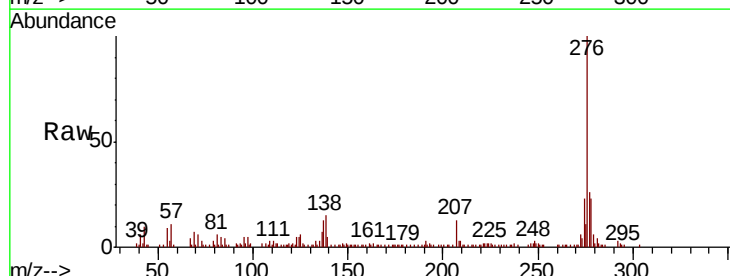
Tgt Ion:276 Resp: 128802

Ion Ratio Lower Upper

276 100

138 14.8 25.0 37.6#

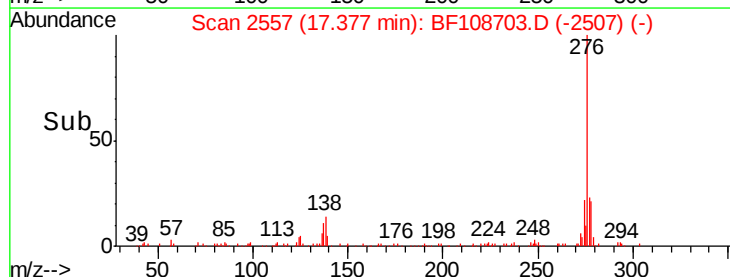
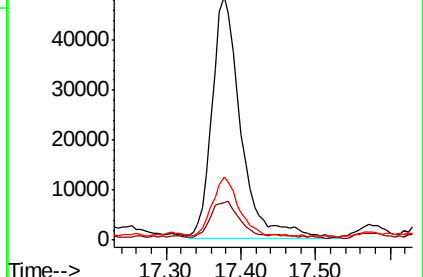
277 22.0 20.1 30.1

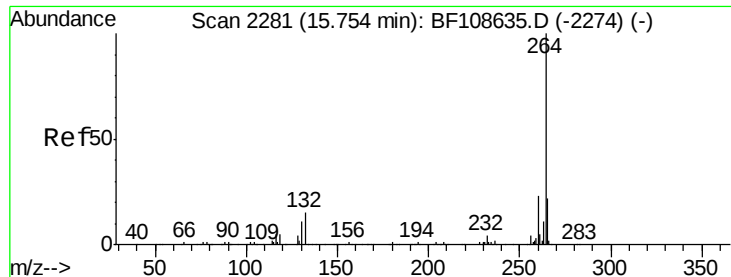


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

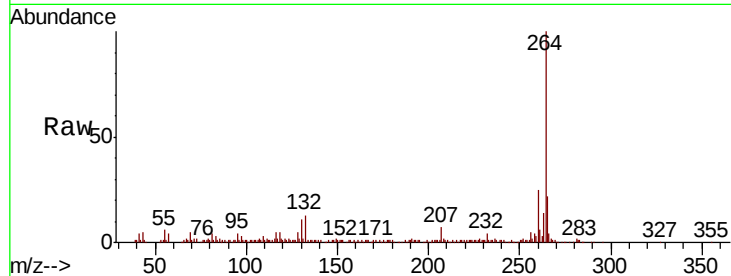




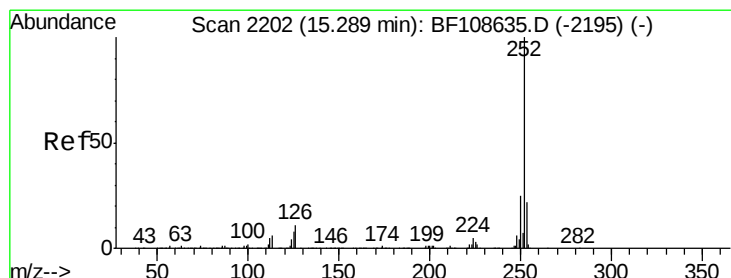
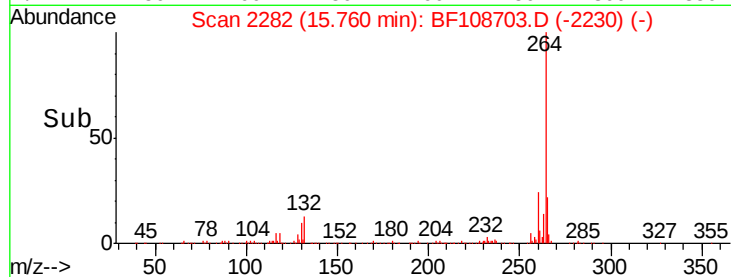
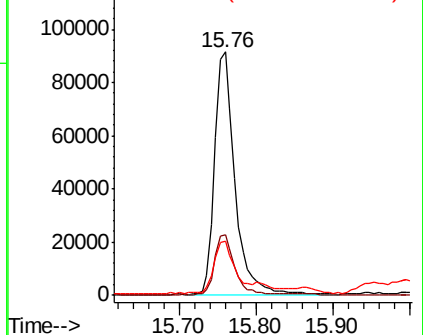
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.76 min Scan# 2282
Delta R.T. 0.01 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 165312
Ion Ratio Lower Upper
264 100
260 24.8 19.2 28.8
265 22.3 17.5 26.3

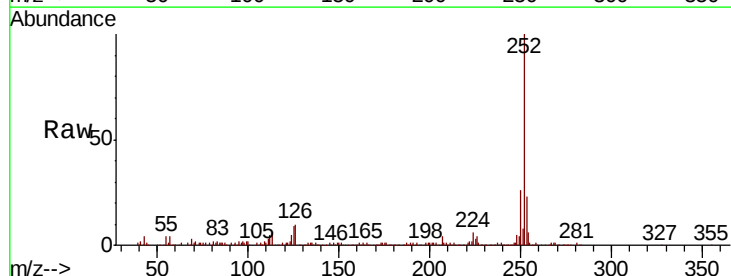


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

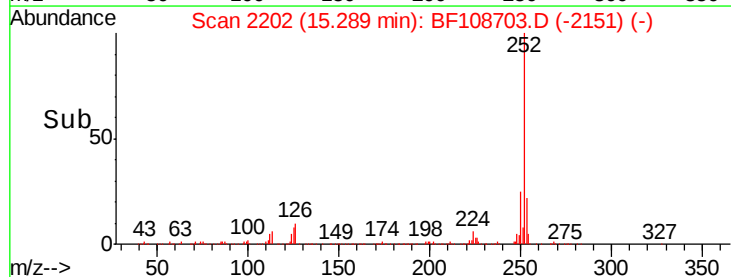
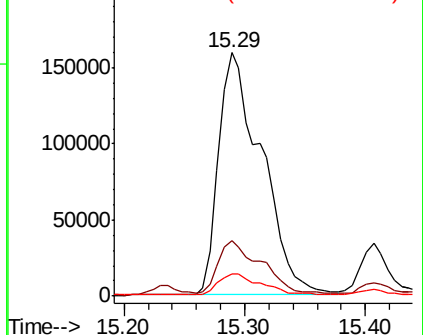


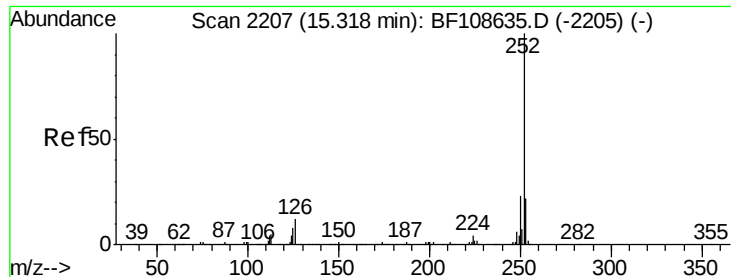
#87
Benzo(b)fluoranthene
Concen: 38.653 ng
RT: 15.29 min Scan# 2202
Delta R.T. 0.00 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Tgt Ion:252 Resp: 392519
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.6
125 9.2 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

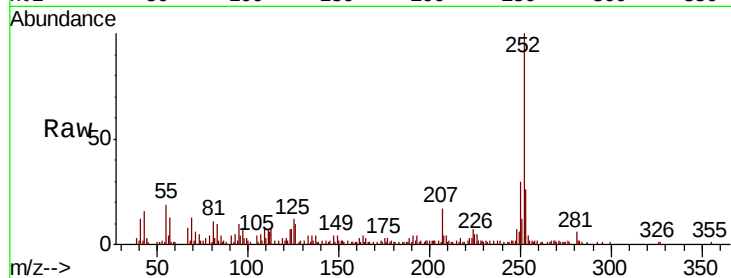




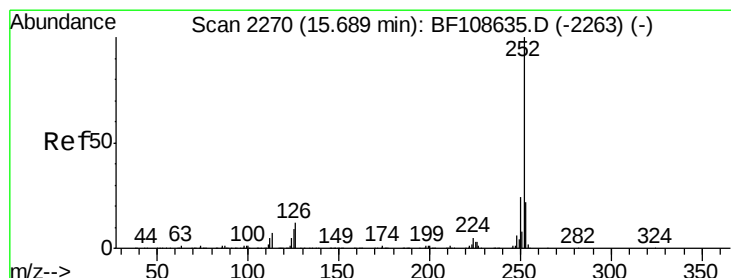
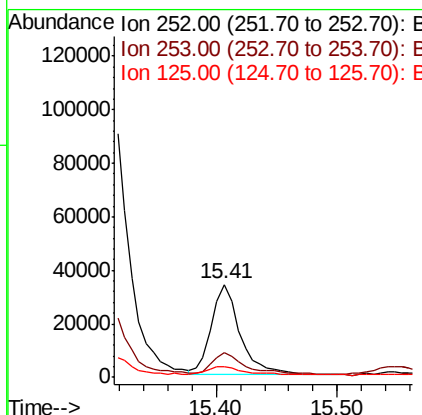
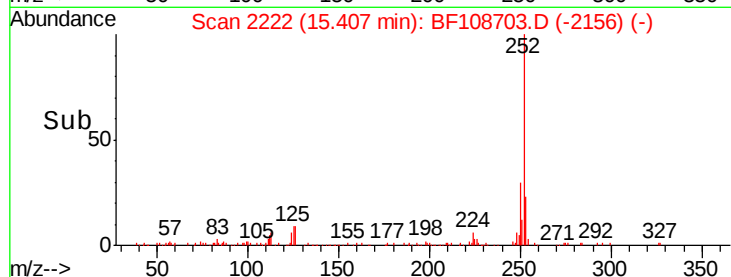
#88
Benzo(k)fluoranthene
Concen: 5.546 ng
RT: 15.41 min Scan# 2222
Delta R.T. 0.09 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 55789
Ion Ratio Lower Upper
252 100
253 26.2 17.9 26.9
125 12.2 10.2 15.2

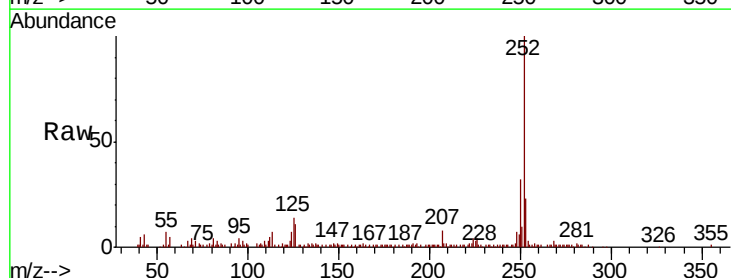


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

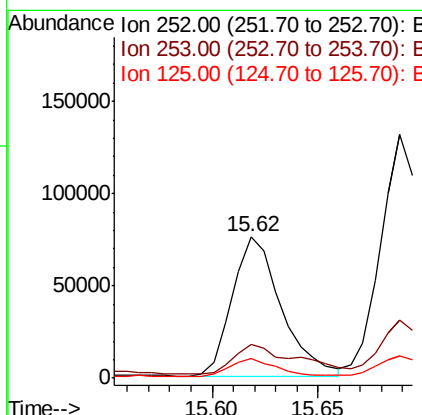
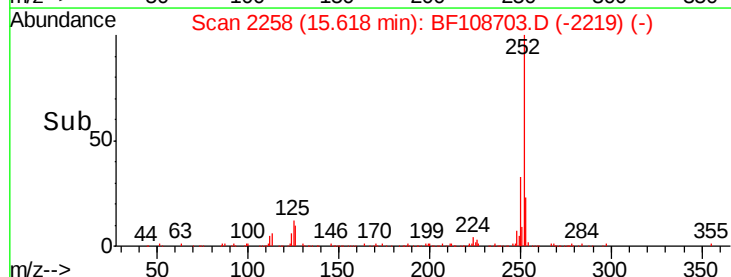


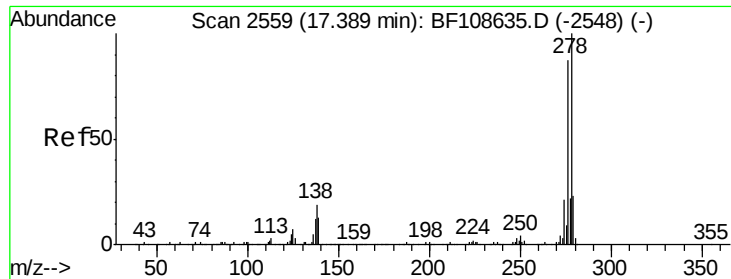
#89
Benzo(a)pyrene
Concen: 13.422 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.07 min
Lab File: BF108703.D
Acq: 31 Aug 2018 21:38

Tgt Ion:252 Resp: 123177
Ion Ratio Lower Upper
252 100
253 23.5 17.1 25.7
125 13.6 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





#90

Dibenzo(a,h)anthracene

Concen: 3.630 ng

RT: 17.39 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BF108703.D

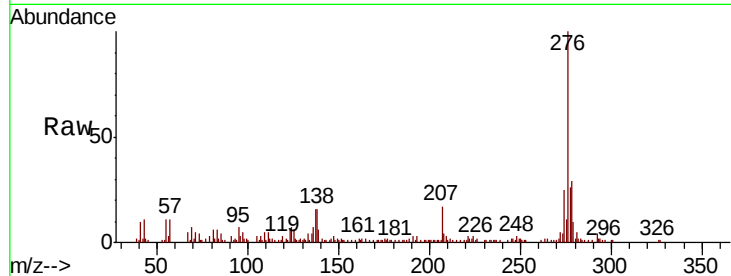
Acq: 31 Aug 2018 21:38

Instrument :

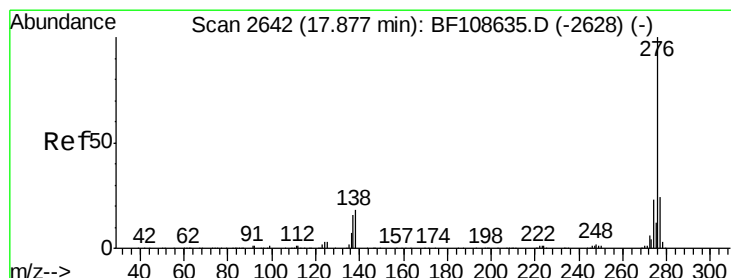
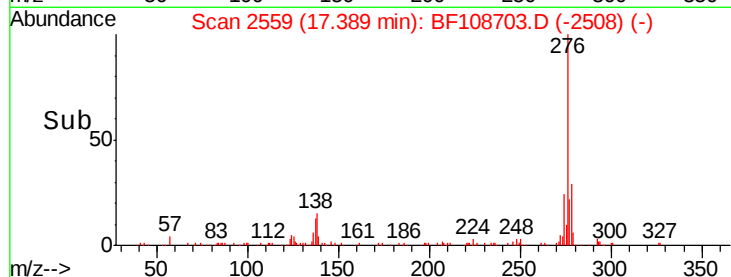
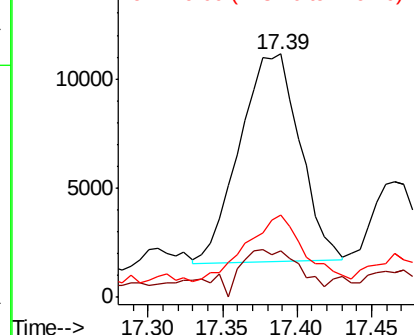
BNA_F

ClientSampleId :

Tot Ion:278	Resp:	26605
Ion Ratio	Lower	Upper
278	100	
139	18.8	15.9 23.9
279	33.7	19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 15.739 ng

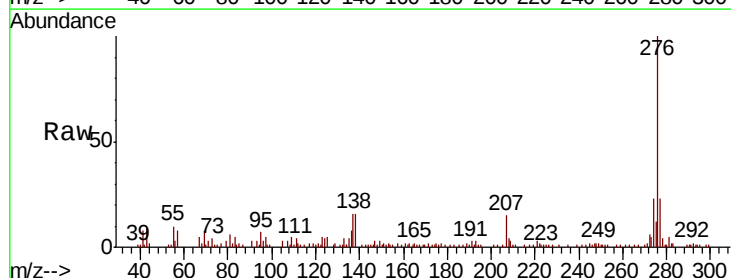
RT: 17.87 min Scan# 2641

Delta R.T. -0.01 min

Lab File: BF108703.D

Acq: 31 Aug 2018 21:38

Tgt Ion:276	Resp:	112119
Ion Ratio	Lower	Upper
276	100	
277	23.4	17.9 26.9
138	16.1	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

