

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080218\
 Data File : BF107933.D
 Acq On : 3 Aug 2018 3:59
 Operator : JU/SJ
 Sample : J4285-13DL 20X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KG-PIT-4DL

Quant Time: Aug 03 05:23:30 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	100387	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	584828	20.00	ng	-0.01
38) Acenaphthene-d10	9.99	164	244548	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	457249	20.00	ng	-0.01
75) Chrysene-d12	14.14	240	393349	20.00	ng	-0.01
86) Perylene-d12	15.67	264	345018	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.78	112	805	0.14	ng	0.19
7) Phenol-d6	6.72	99	5180	0.67	ng	0.12
23) Nitrobenzene-d5	7.61	82	5401	0.53	ng	0.08
41) 2,4,6-Tribromophenol	10.80	330	5558	1.67	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	40184	2.29	ng	0.00
78) Terphenyl-d14	13.07	244	43249	2.38	ng	-0.01

Target Compounds

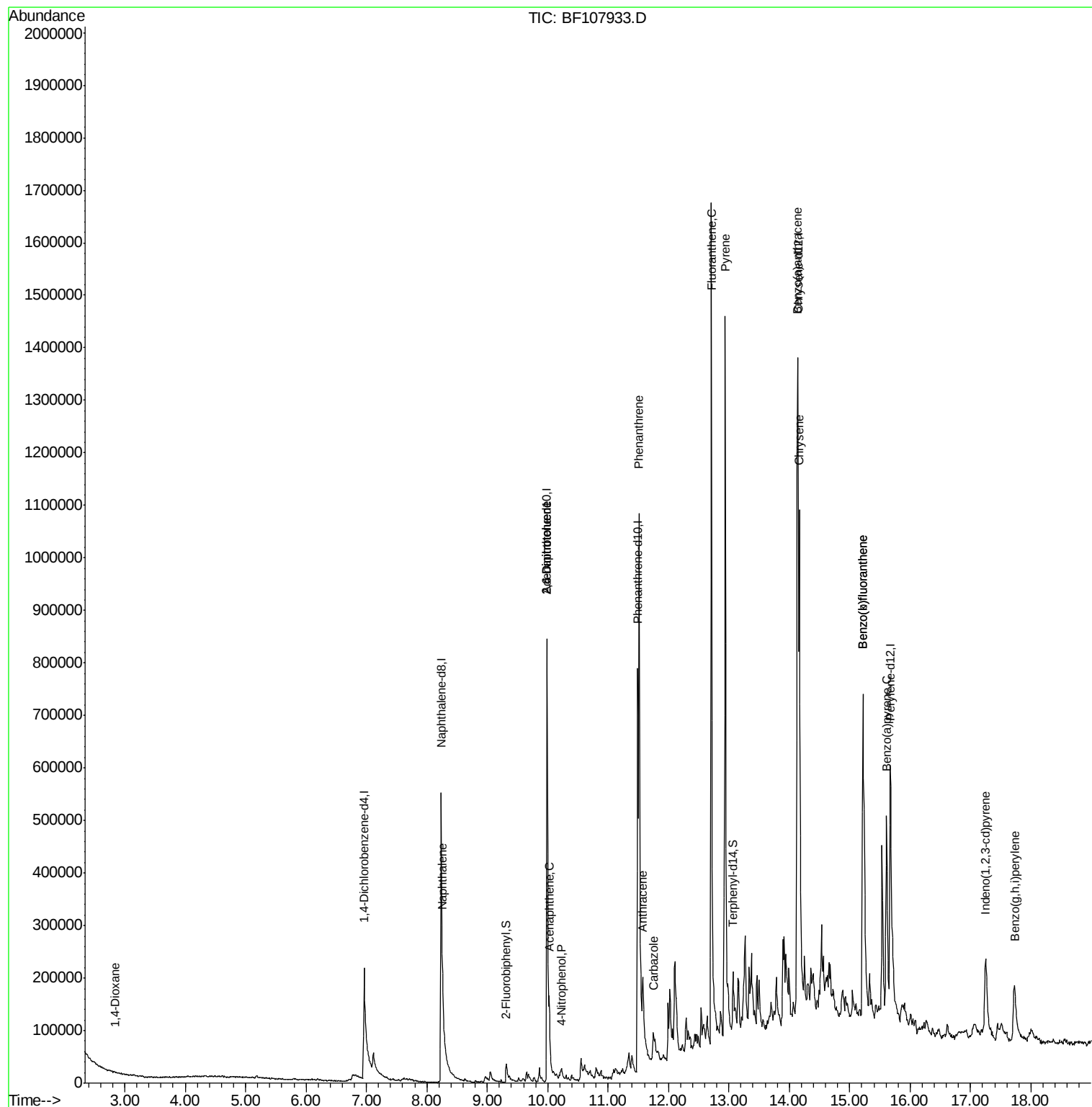
						Qvalue
2) 1,4-Dioxane	2.84	88	202	5.858	ng	# 1
31) Naphthalene	8.26	128	67392	2.479	ng	96
50) 2,6-Dinitrotoluene	9.99	165	30336	7.601	ng	# 25
51) Acenaphthene	10.02	154	35282	2.334	ng	94
55) 4-Nitrophenol	10.22	139	9724	12.942	ng	# 9
56) 2,4-Dinitrotoluene	9.99	165	31312	5.969	ng	# 22
70) Phenanthrene	11.51	178	568463	26.182	ng	98
71) Anthracene	11.57	178	164677	6.576	ng	97
72) Carbazole	11.76	167	80743	3.263	ng	98
74) Fluoranthene	12.71	202	934894	36.653	ng	97
77) Pyrene	12.94	202	835031	29.481	ng	97
80) Benzo(a)anthracene	14.13	228	504739	22.652	ng	98
82) Chrysene	14.17	228	482190	20.064	ng	99
85) Indeno(1,2,3-cd)pyrene	17.25	276	158049	8.646	ng	# 88
87) Benzo(b)fluoranthene	15.22	252	660250	38.801	ng	98
88) Benzo(k)fluoranthene	15.22	252	660250	31.604	ng	99
89) Benzo(a)pyrene	15.61	252	306897	17.470	ng	96
91) Benzo(g,h,i)perylene	17.72	276	146263	9.865	ng	94

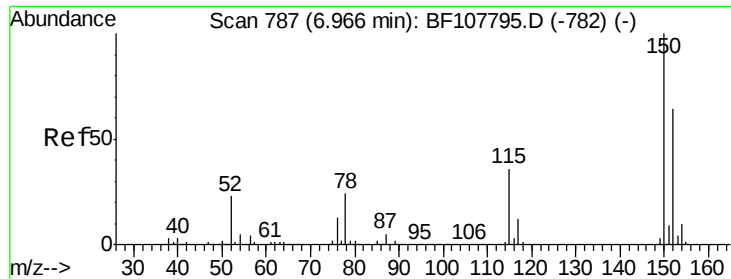
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.96 min Scan# 786

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

ClientSampleId :

KG-PIT-4DL

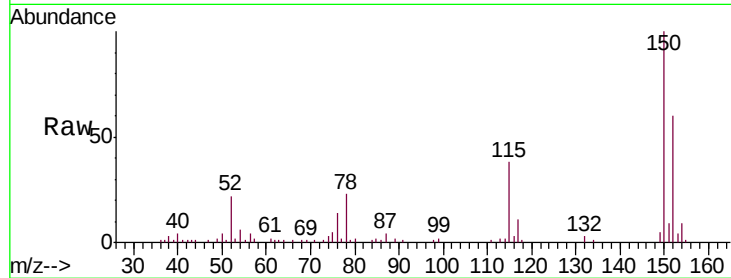
Tgt Ion:152 Resp: 100387

Ion Ratio Lower Upper

152 100

150 165.3 124.6 186.8

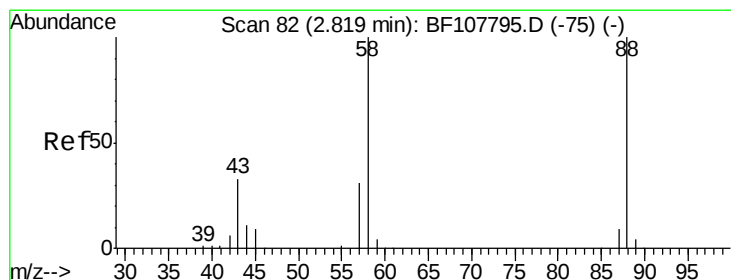
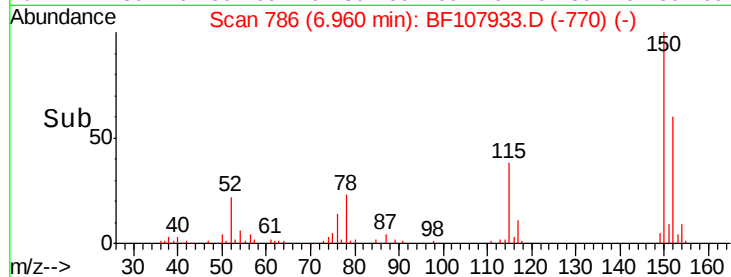
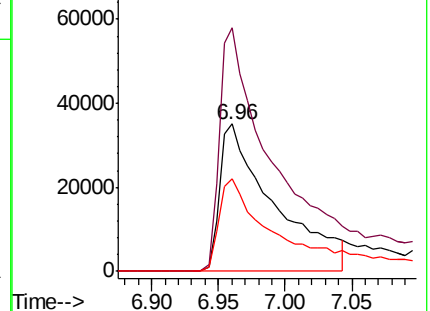
115 62.8 50.1 75.1



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



#2

1,4-Dioxane

Concen: 5.858 ng

RT: 2.84 min Scan# 85

Delta R.T. 0.02 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

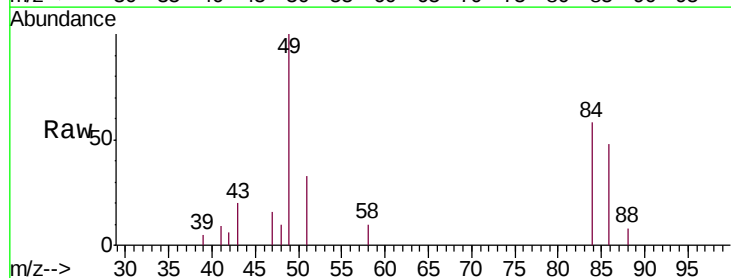
Tgt Ion: 88 Resp: 202

Ion Ratio Lower Upper

88 100

58 199.5 62.6 93.8#

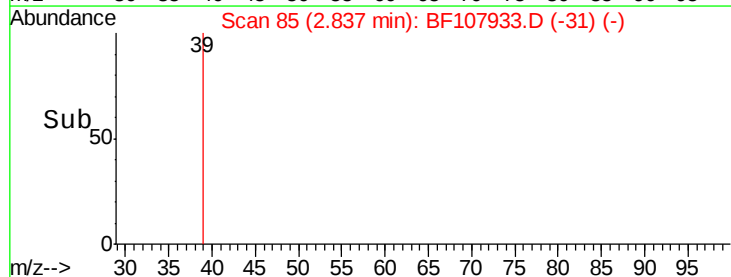
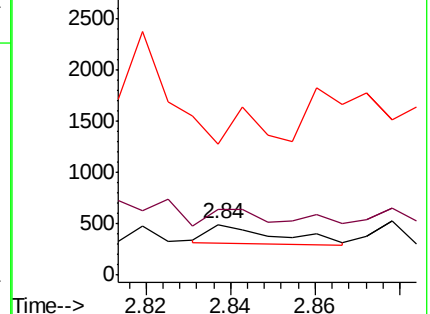
43 390.6 24.6 37.0#

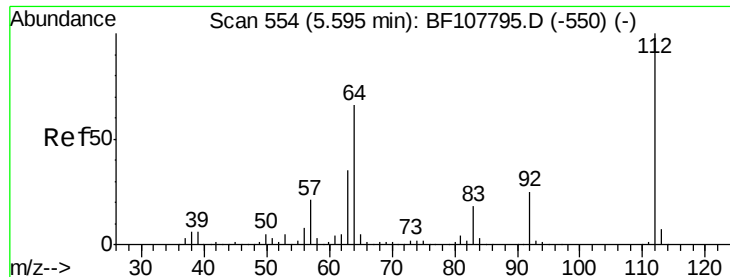


Abundance Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1





#5

2-Fluorophenol

Concen: 0.136 ng

RT: 5.78 min Scan# 586

Delta R.T. 0.19 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

ClientSampleId :

KG-PIT-4DL

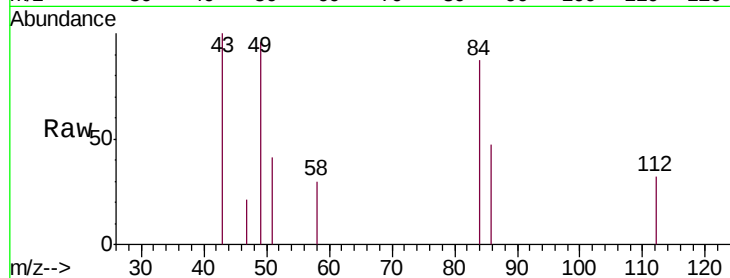
Tgt Ion: 112 Resp: 805

Ion Ratio Lower Upper

112 100

64 0.0 47.9 71.9#

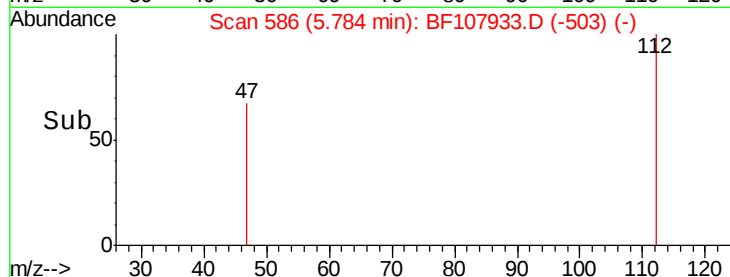
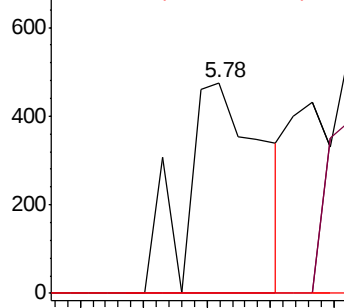
63 0.0 23.7 35.5#



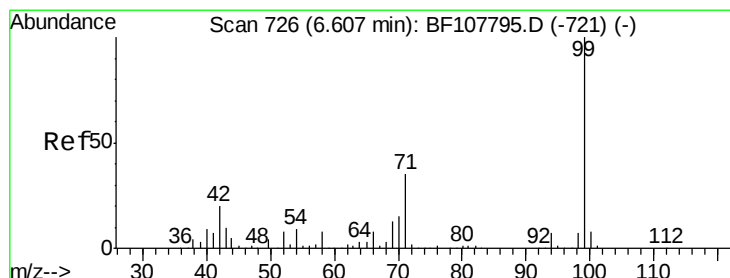
Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



Time-->



#7

Phenol-d6

Concen: 0.665 ng

RT: 6.72 min Scan# 746

Delta R.T. 0.12 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

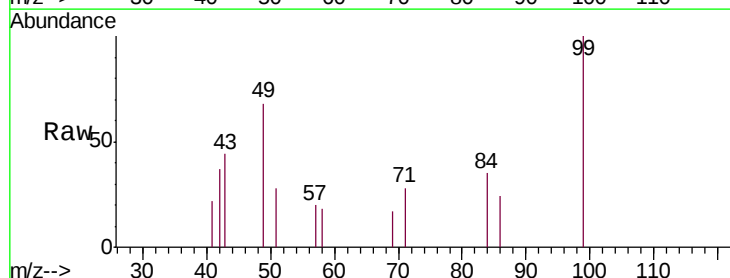
Tgt Ion: 99 Resp: 5180

Ion Ratio Lower Upper

99 100

42 36.6 14.5 21.7#

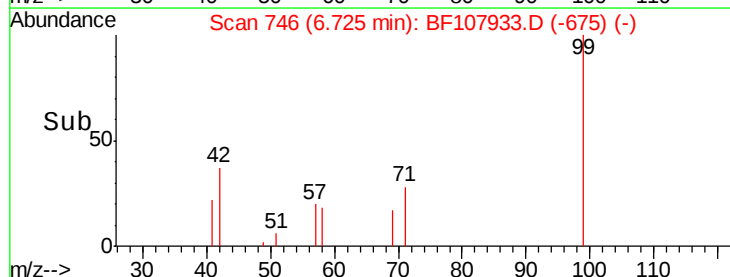
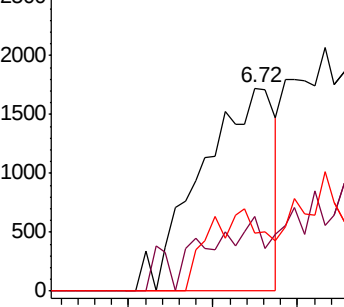
71 28.3 25.4 38.0

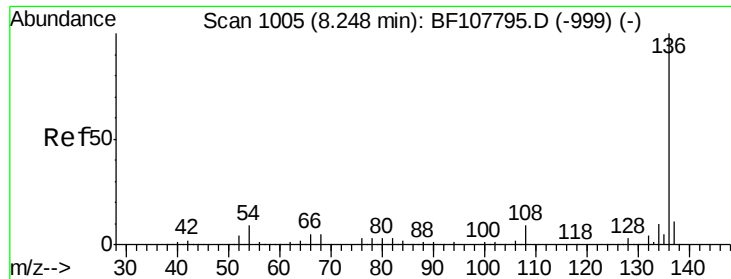


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

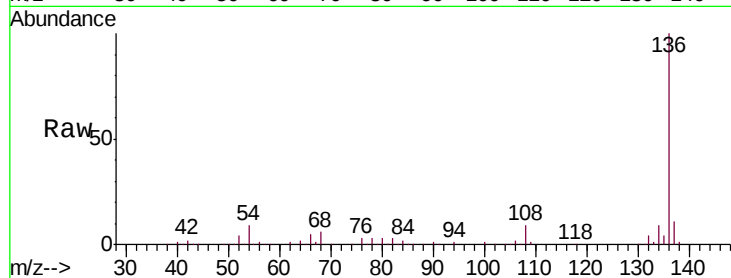




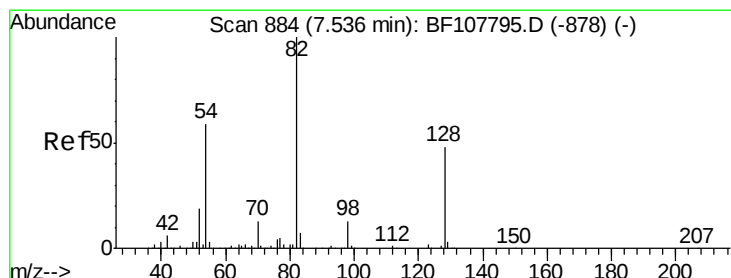
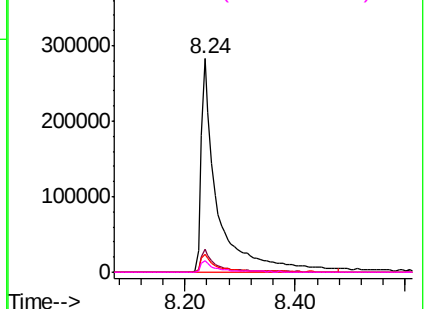
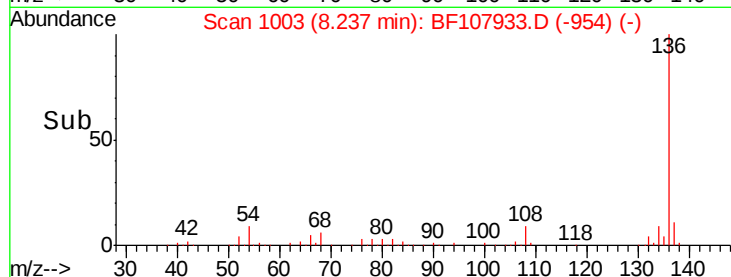
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1003
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tgt Ion:	136	Resp:	584828
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.7	6.6	9.8
68	5.5	5.0	7.4

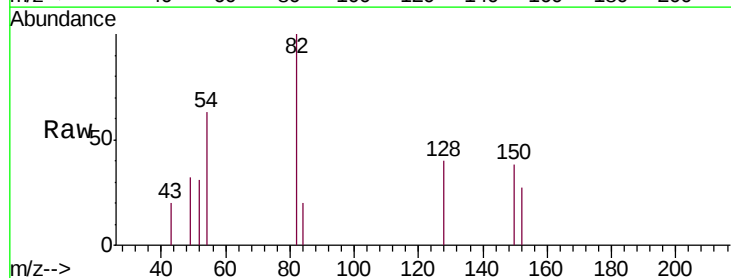


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

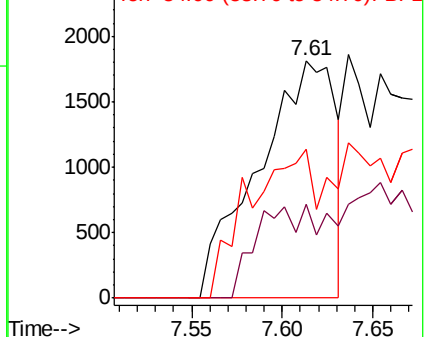
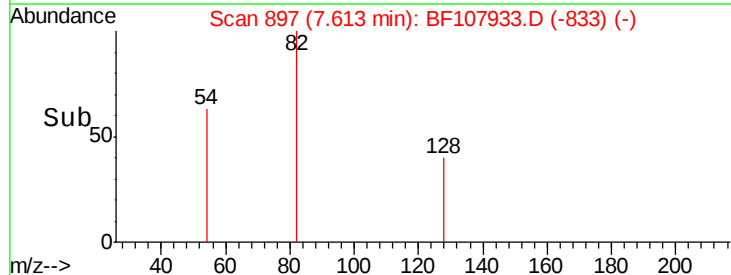


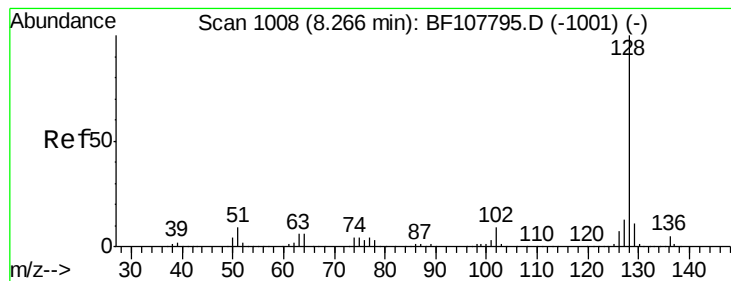
#23
Nitrobenzene-d5
Concen: 0.532 ng
RT: 7.61 min Scan# 897
Delta R.T. 0.08 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion:	82	Resp:	5401
Ion	Ratio	Lower	Upper
82	100		
128	39.7	36.1	54.1
54	62.7	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





#31

Naphthalene

Concen: 2.479 ng

RT: 8.26 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

ClientSampleId :

KG-PIT-4DL

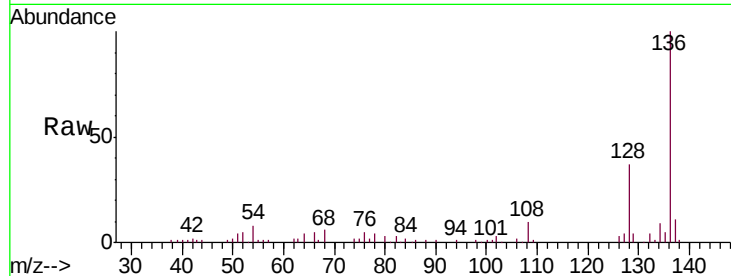
Tgt Ion:128 Resp: 67392

Ion Ratio Lower Upper

128 100

129 10.2 8.8 13.2

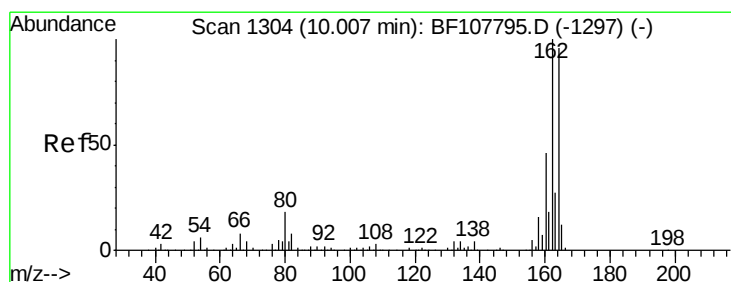
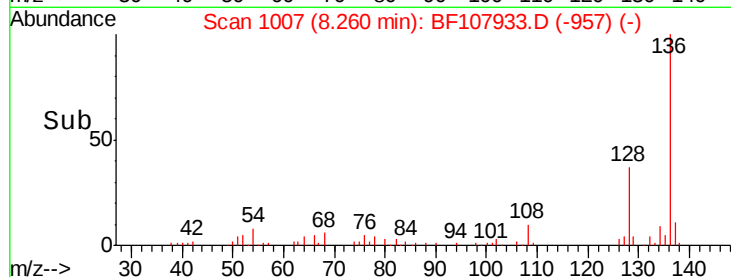
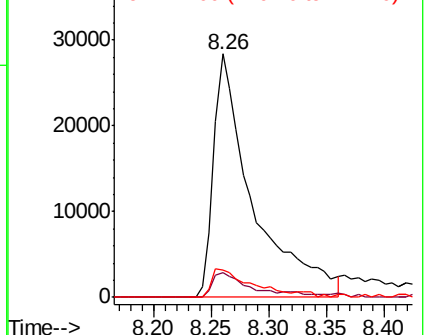
127 11.5 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.99 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

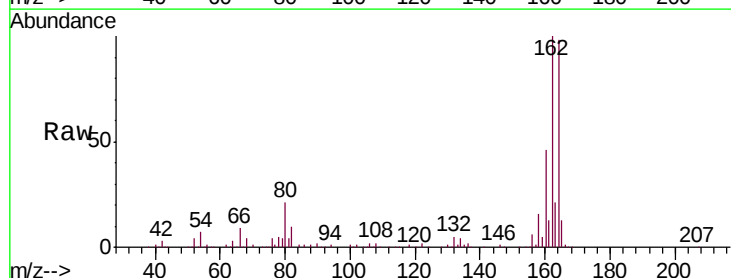
Tgt Ion:164 Resp: 244548

Ion Ratio Lower Upper

164 100

162 101.7 86.1 129.1

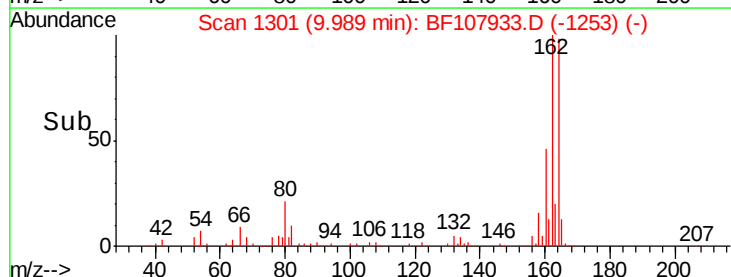
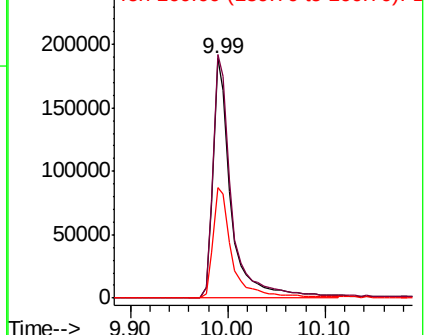
160 46.3 38.3 57.5

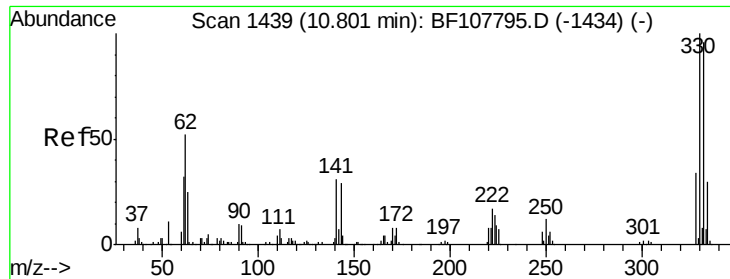


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

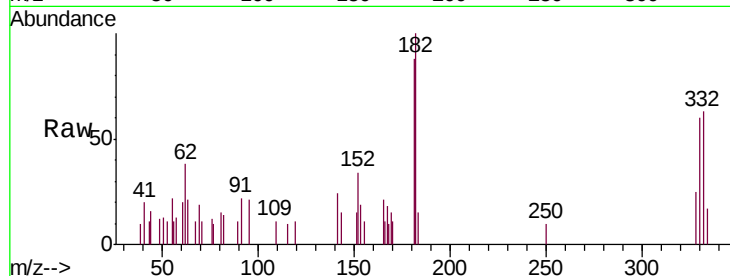




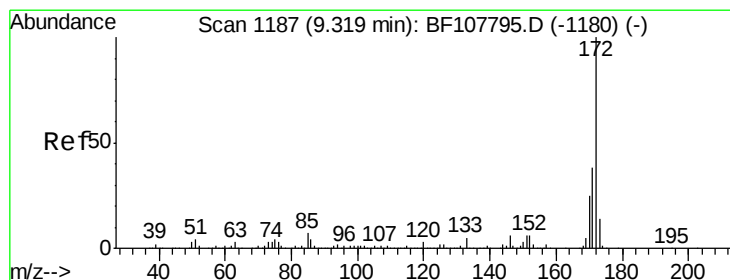
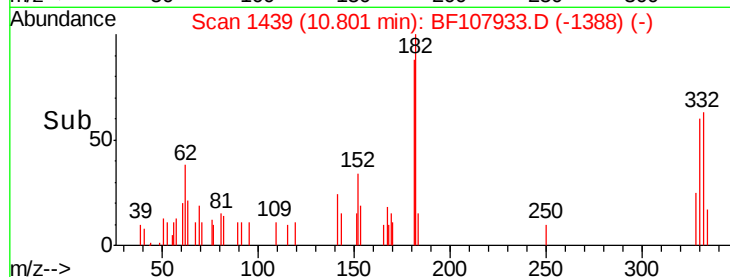
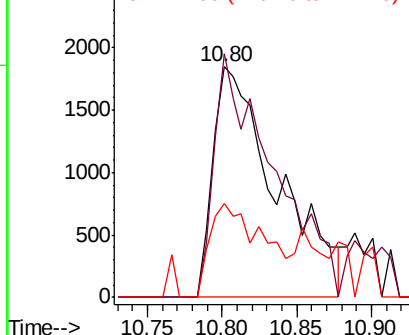
#41
 2,4,6-Tribromophenol
 Concen: 1.673 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. 0.00 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Instrument :
 BNA_F
 ClientSampleId :
 KG-PIT-4DL

Tgt Ion:330 Resp: 5558
 Ion Ratio Lower Upper
 330 100
 332 97.0 77.0 115.6
 141 33.6 29.9 44.9

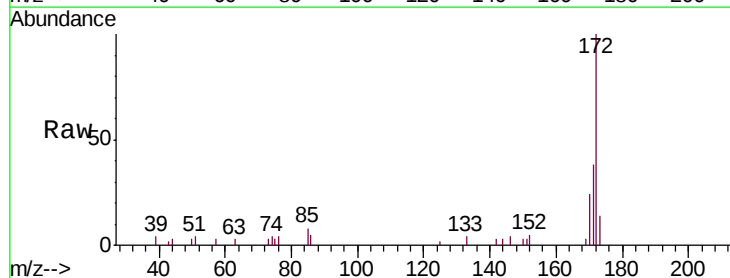


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

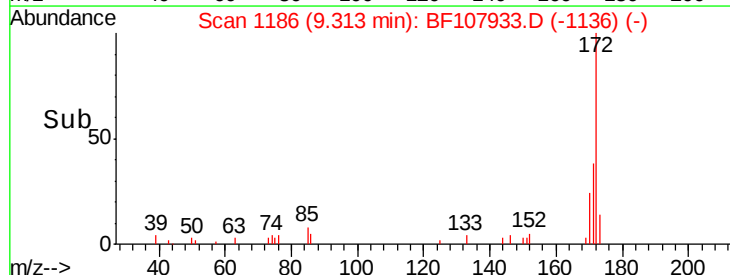
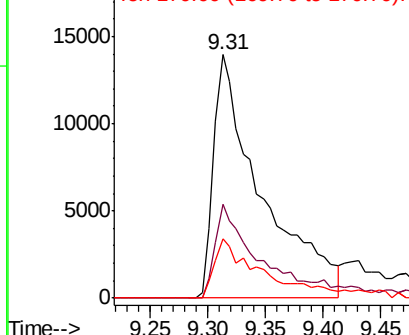


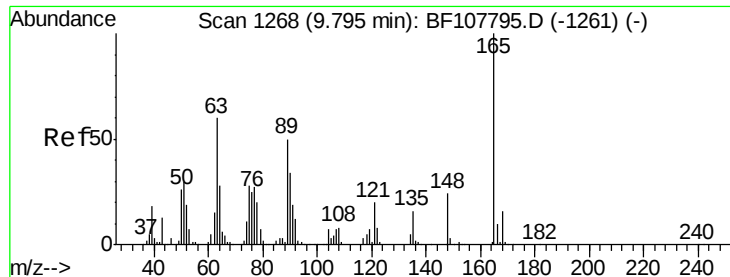
#44
 2-Fluorobiphenyl
 Concen: 2.290 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Tgt Ion:172 Resp: 40184
 Ion Ratio Lower Upper
 172 100
 171 38.4 29.7 44.5
 170 24.4 19.6 29.4



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

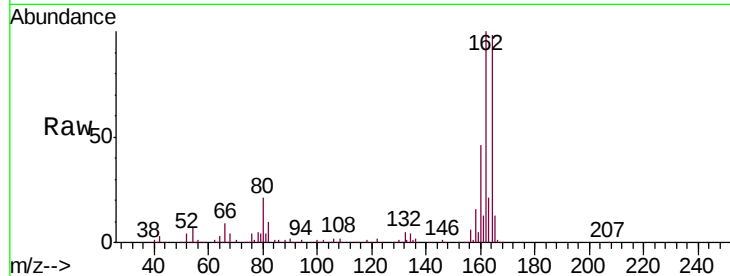




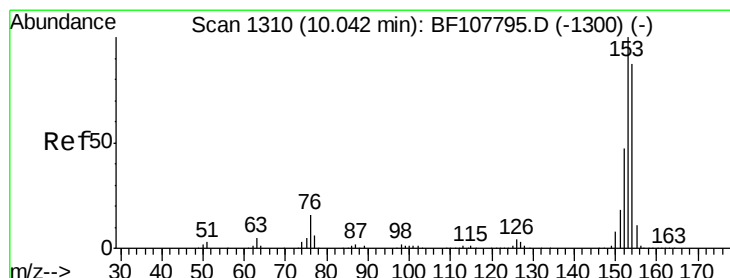
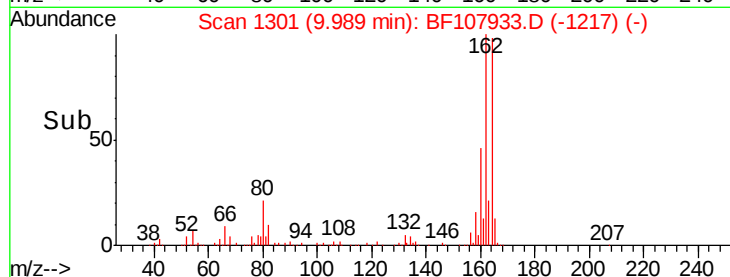
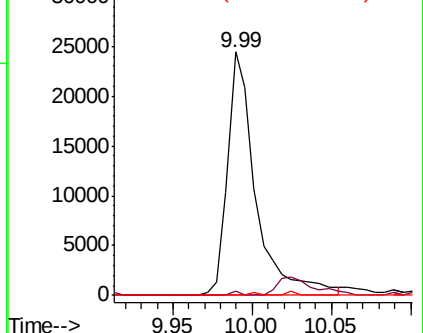
#50
2,6-Dinitrotoluene
Concen: 7.601 ng
RT: 9.99 min Scan# 1301
Delta R.T. 0.19 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tgt Ion:165 Resp: 30336
Ion Ratio Lower Upper
165 100
63 1.5 44.7 67.1#
89 0.0 44.0 66.0#

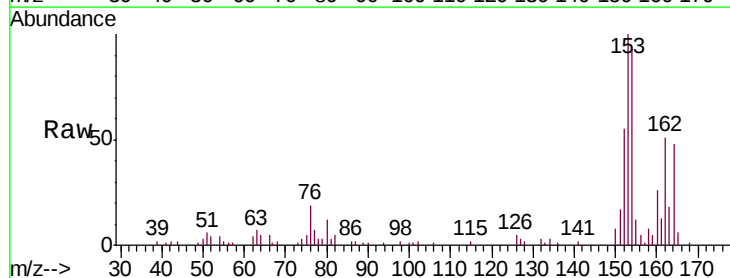


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

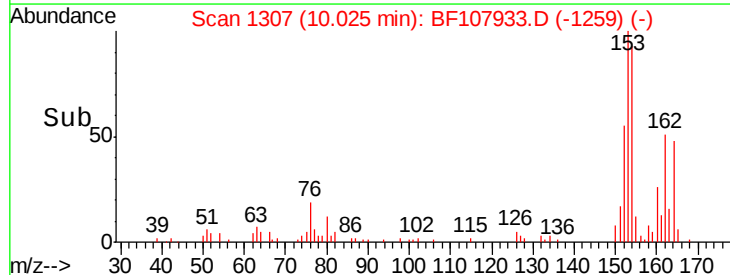
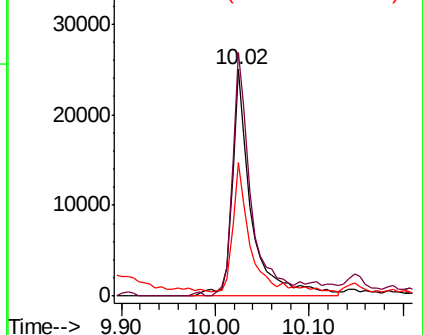


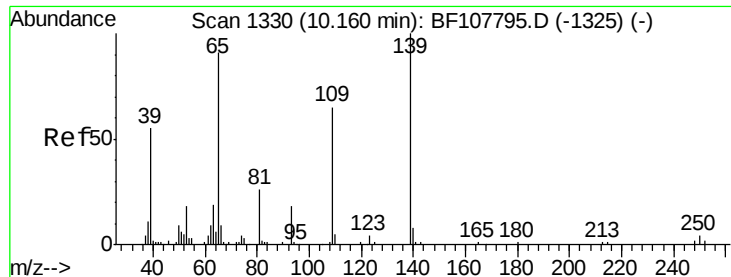
#51
Acenaphthene
Concen: 2.334 ng
RT: 10.02 min Scan# 1307
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion:154 Resp: 35282
Ion Ratio Lower Upper
154 100
153 107.5 91.2 136.8
152 59.1 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

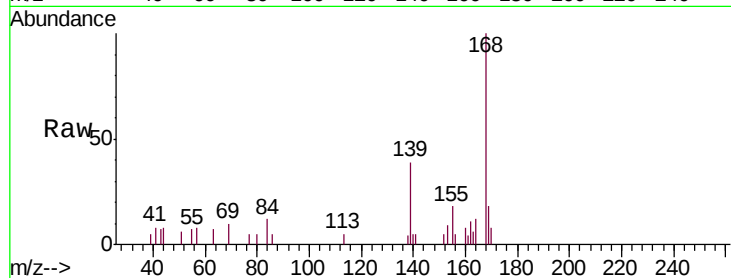




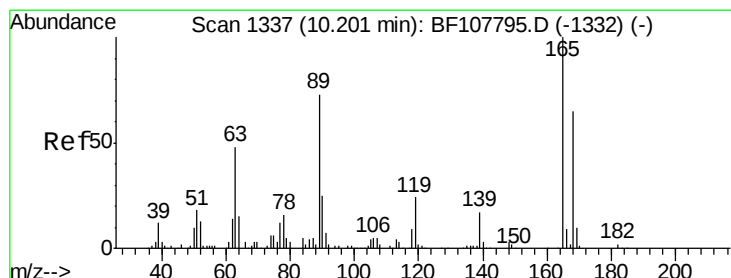
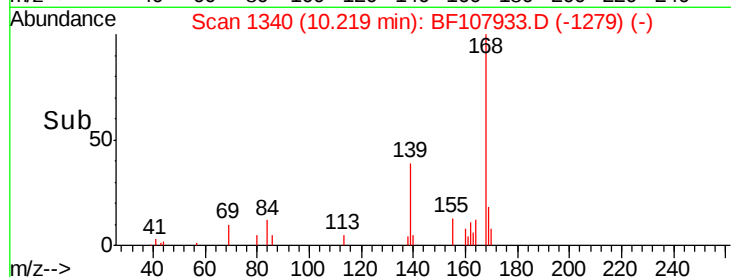
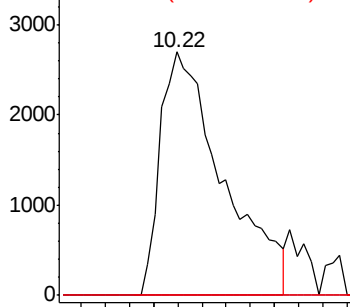
#55
4-Nitrophenol
Concen: 12.942 ng
RT: 10.22 min Scan# 1340
Delta R.T. 0.06 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tgt Ion:139 Resp: 9724
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#

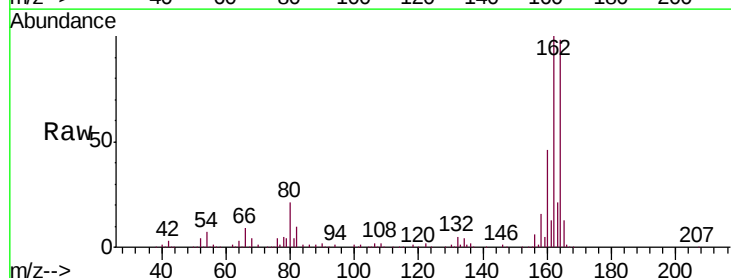


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

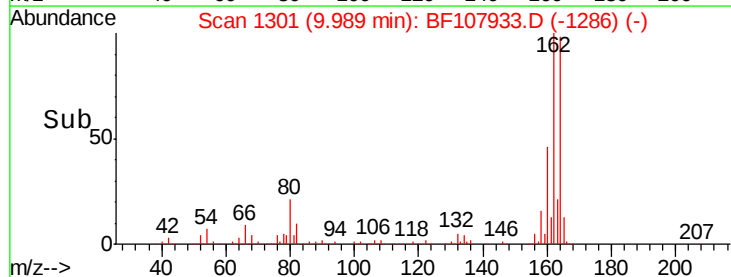
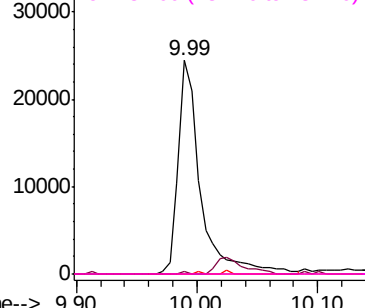


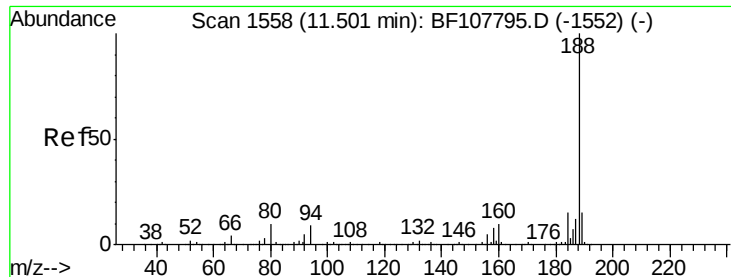
#56
2,4-Dinitrotoluene
Concen: 5.969 ng
RT: 9.99 min Scan# 1301
Delta R.T. -0.21 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion:165 Resp: 31312
Ion Ratio Lower Upper
165 100
63 1.5 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

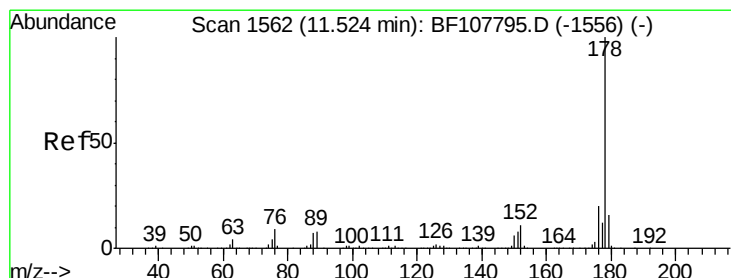
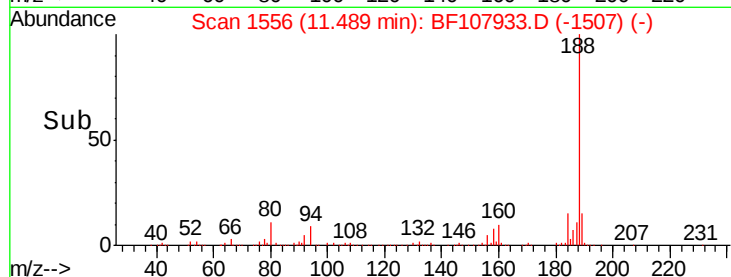
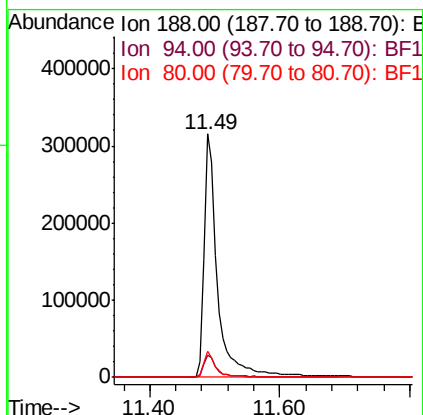
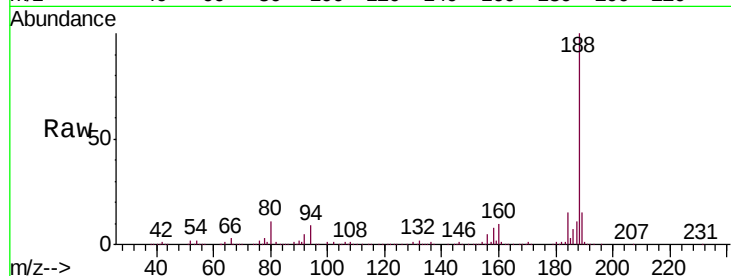




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

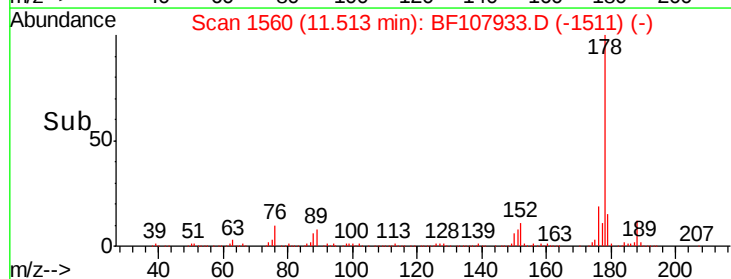
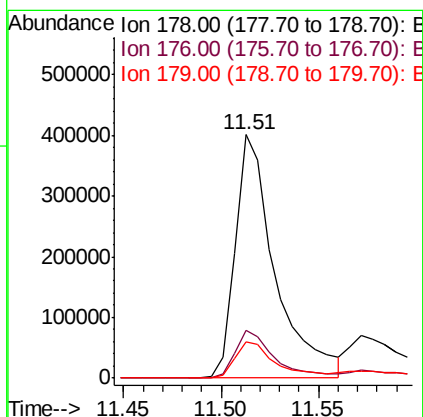
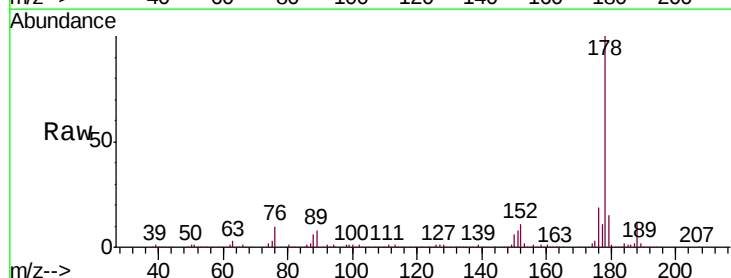
Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

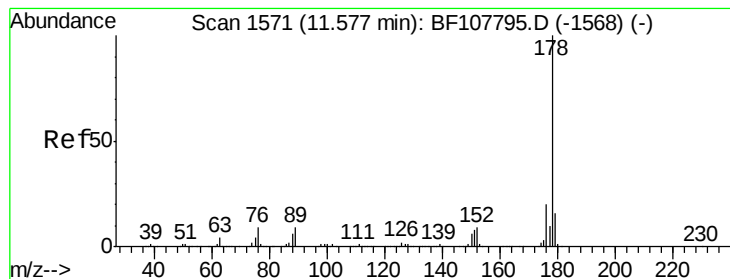
Tgt Ion:188 Resp: 457249
Ion Ratio Lower Upper
188 100
94 9.2 8.5 12.7
80 10.7 9.2 13.8



#70
Phenanthrene
Concen: 26.182 ng
RT: 11.51 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion:178 Resp: 568463
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 15.1 13.0 19.6





#71

Anthracene

Concen: 6.576 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

ClientSampled :

KG-PIT-4DL

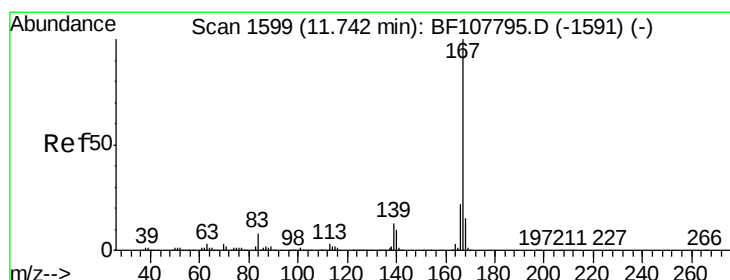
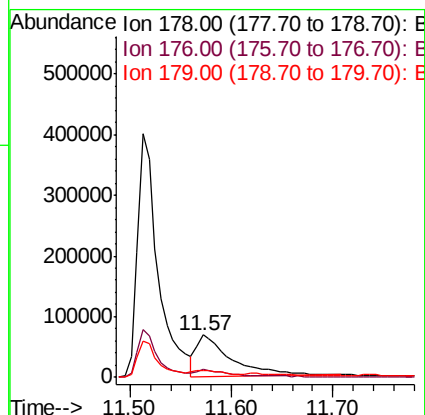
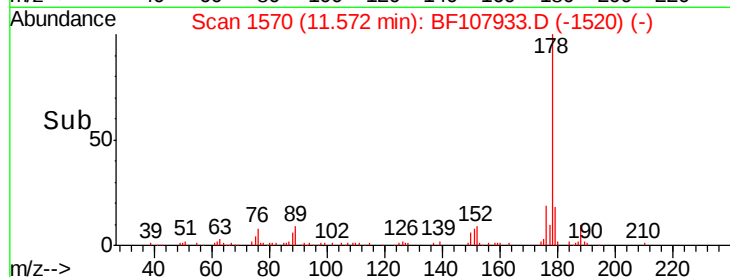
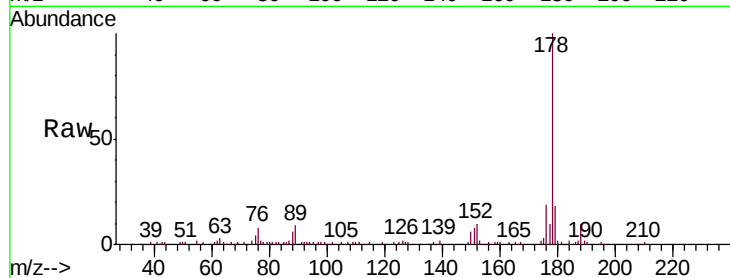
Tgt Ion:178 Resp: 164677

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

179 17.7 12.6 19.0



#72

Carbazole

Concen: 3.263 ng

RT: 11.76 min Scan# 1602

Delta R.T. 0.02 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

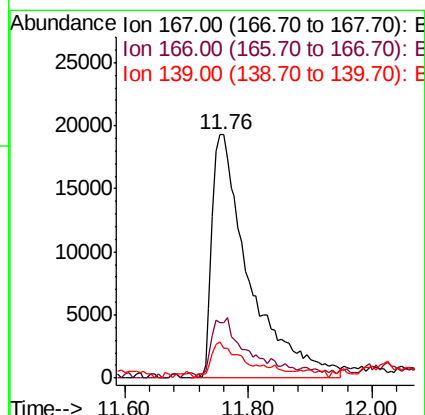
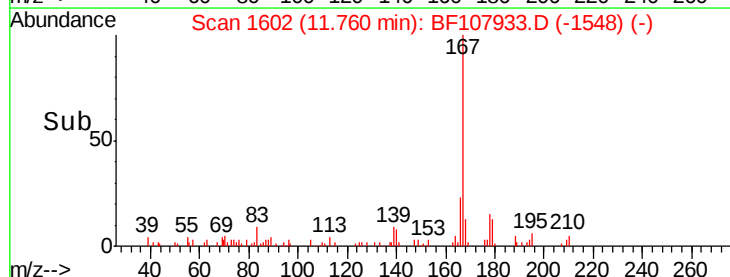
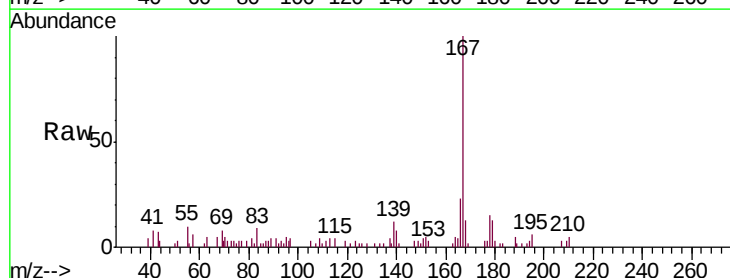
Tgt Ion:167 Resp: 80743

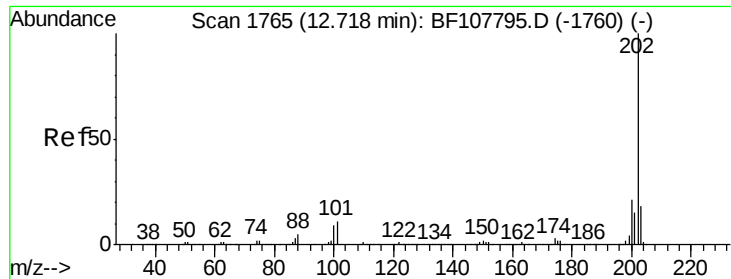
Ion Ratio Lower Upper

167 100

166 22.8 17.6 26.4

139 12.2 10.9 16.3





#74

Fluoranthene

Concen: 36.653 ng

RT: 12.71 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

ClientSampleId :

KG-PIT-4DL

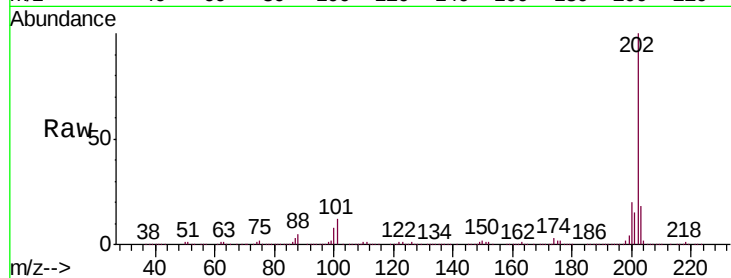
Tgt Ion: 202 Resp: 934894

Ion Ratio Lower Upper

202 100

101 11.8 0.0 34.1

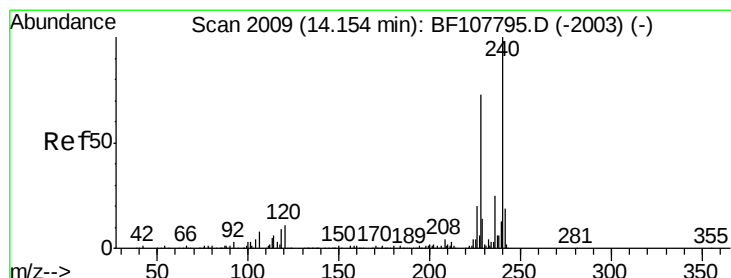
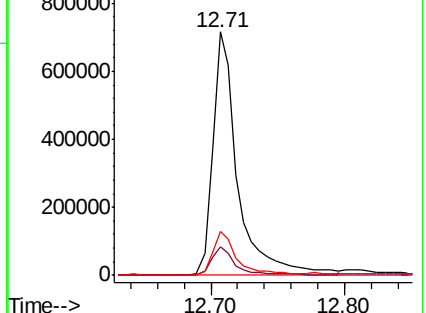
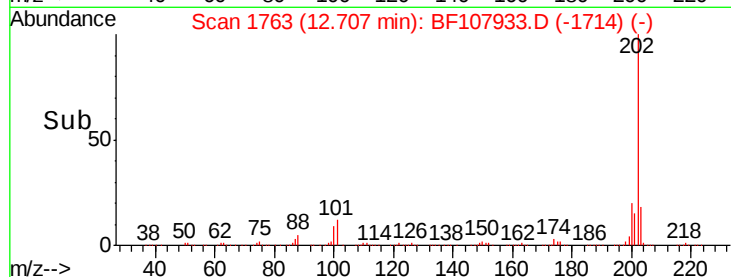
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

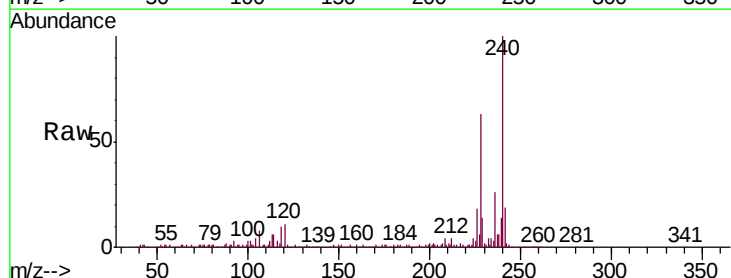
Tgt Ion: 240 Resp: 393349

Ion Ratio Lower Upper

240 100

120 11.3 9.5 14.3

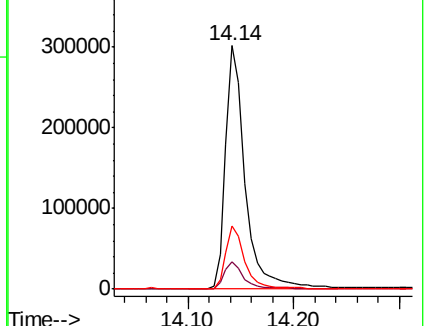
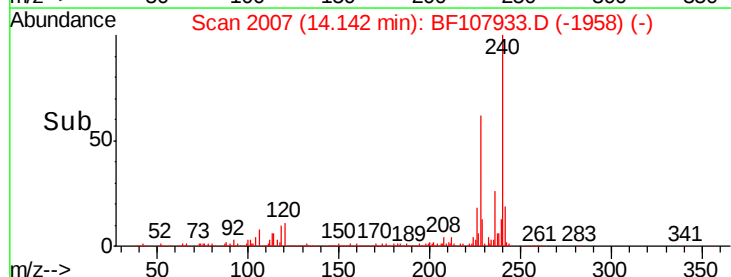
236 26.0 20.7 31.1

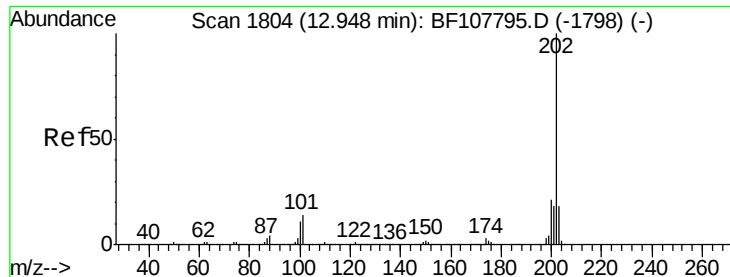


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

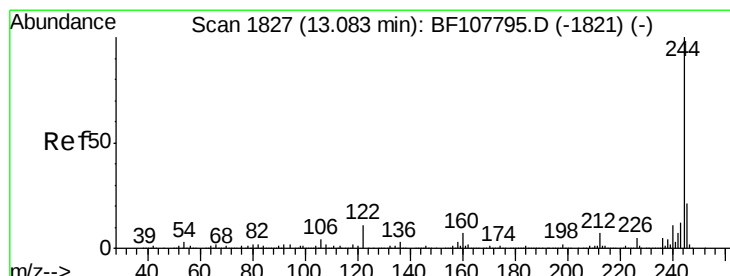
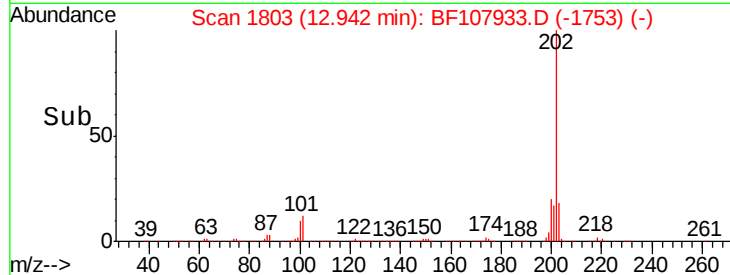
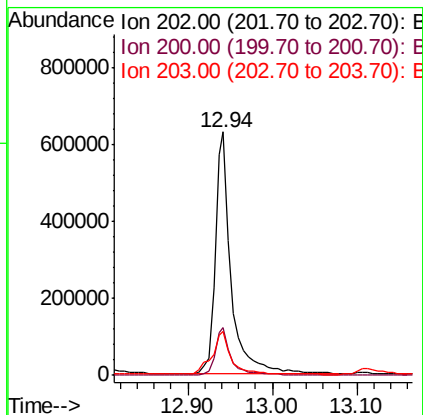
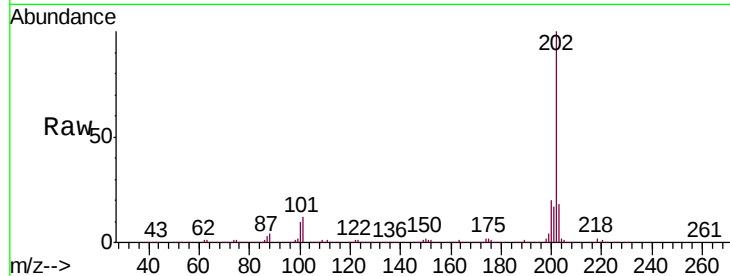




#77
 Pyrene
 Concen: 29.481 ng
 RT: 12.94 min Scan# 1803
 Delta R.T. -0.01 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

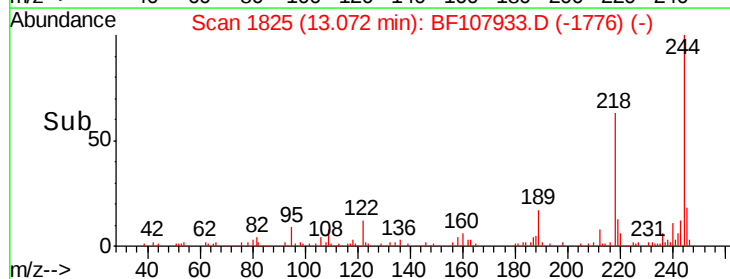
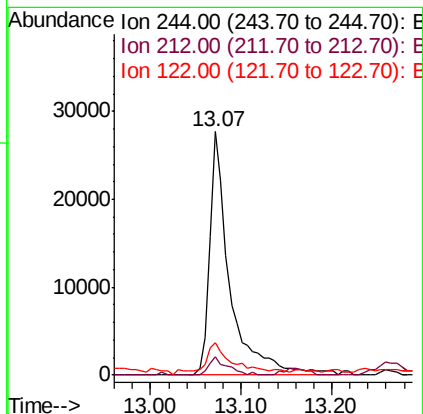
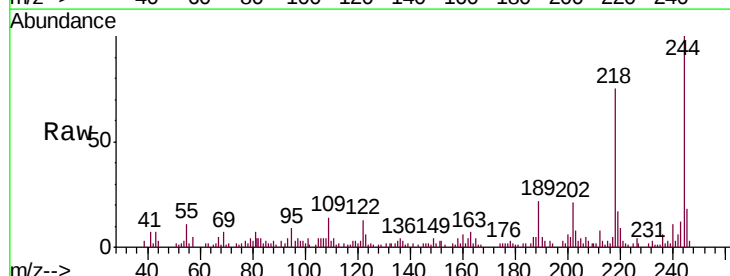
Instrument :
 BNA_F
 ClientSampleId :
 KG-PIT-4DL

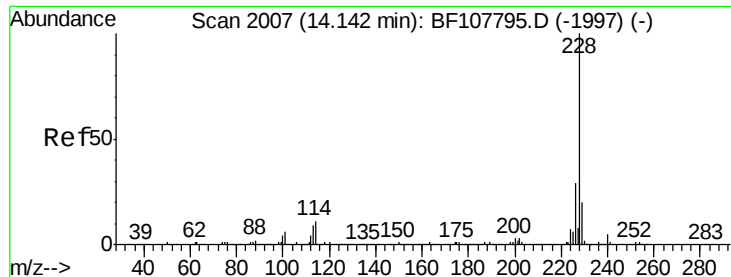
Tgt Ion: 202 Resp: 835031
 Ion Ratio Lower Upper
 202 100
 200 19.8 17.4 26.2
 203 18.2 14.3 21.5



#78
 Terphenyl-d14
 Concen: 2.384 ng
 RT: 13.07 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Tgt Ion: 244 Resp: 43249
 Ion Ratio Lower Upper
 244 100
 212 7.6 5.4 8.0
 122 13.1 11.0 16.4





#80

Benzo(a)anthracene

Concen: 22.652 ng

RT: 14.13 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

Instrument :

BNA_F

ClientSampleId :

KG-PIT-4DL

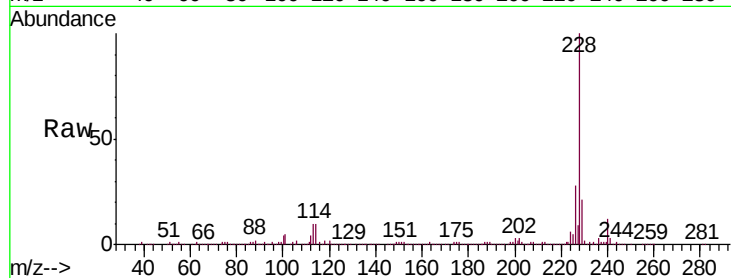
Tgt Ion:228 Resp: 504739

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

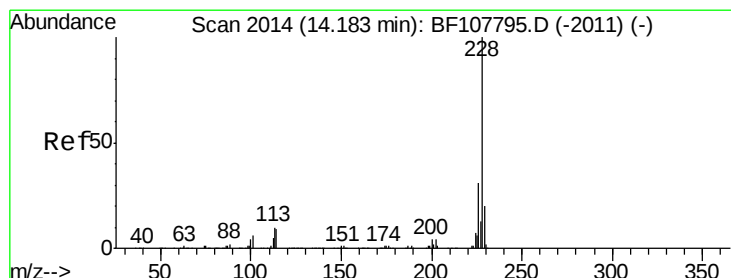
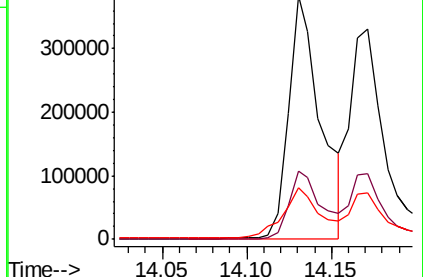
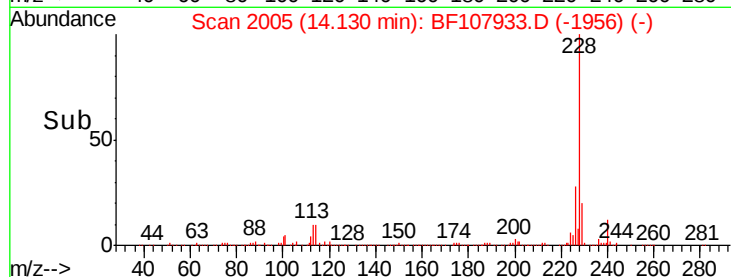
229 21.0 15.8 23.6



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: 20.064 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

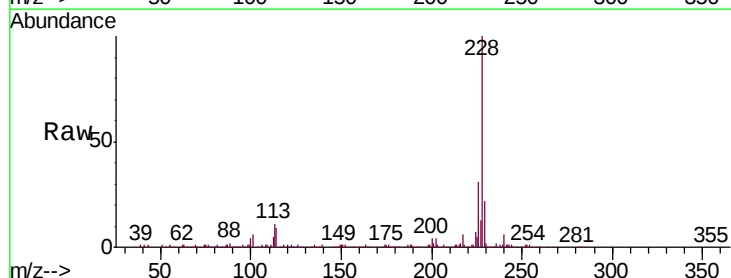
Tgt Ion:228 Resp: 482190

Ion Ratio Lower Upper

228 100

226 31.4 25.0 37.6

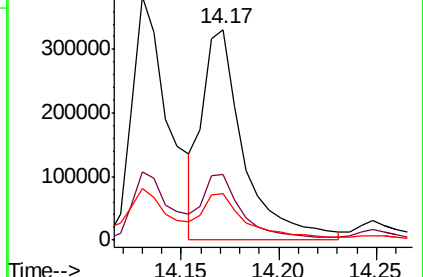
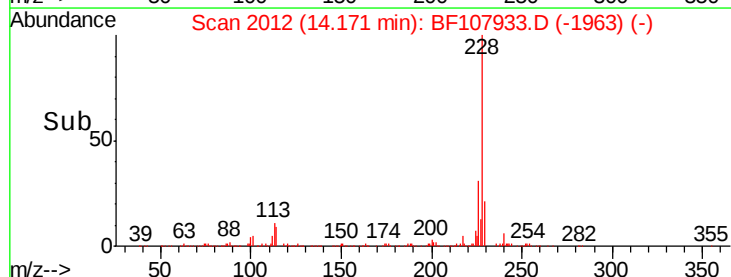
229 21.9 16.2 24.4

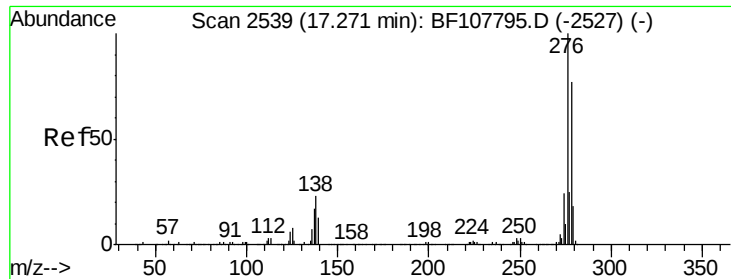


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

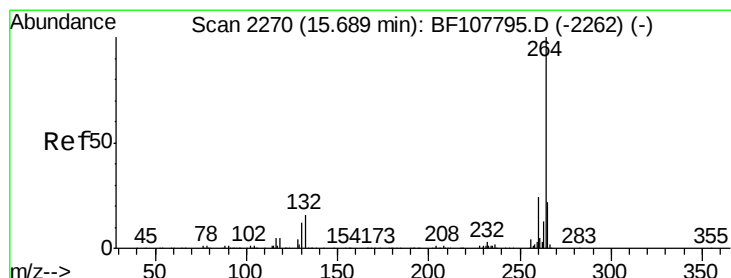
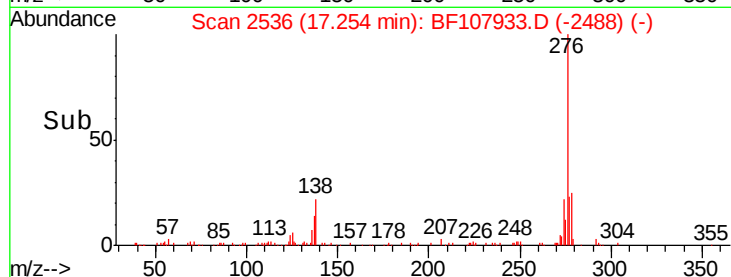
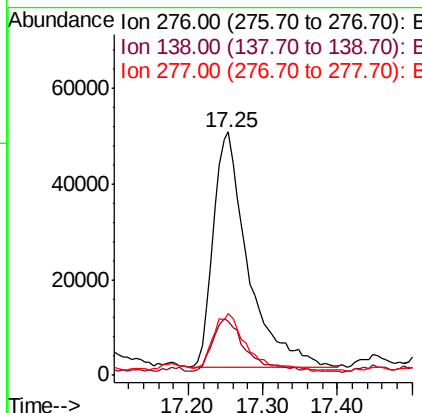
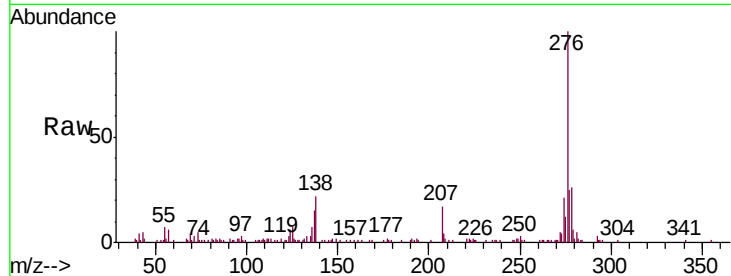




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.646 ng
 RT: 17.25 min Scan# 2536
 Delta R.T. -0.02 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

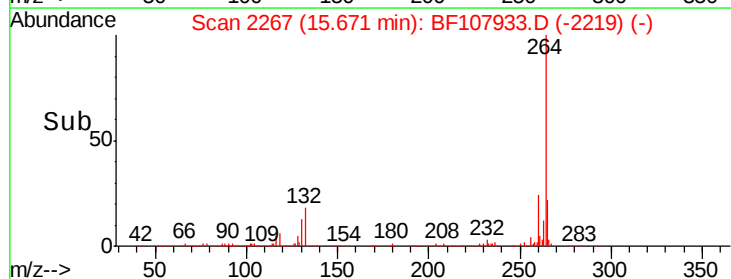
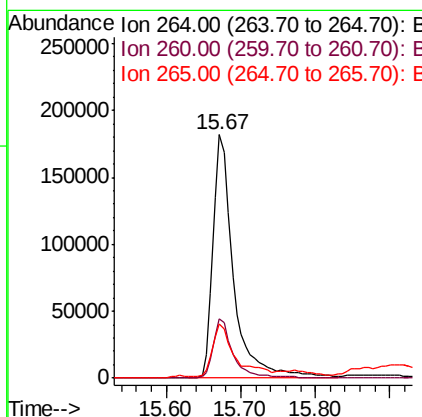
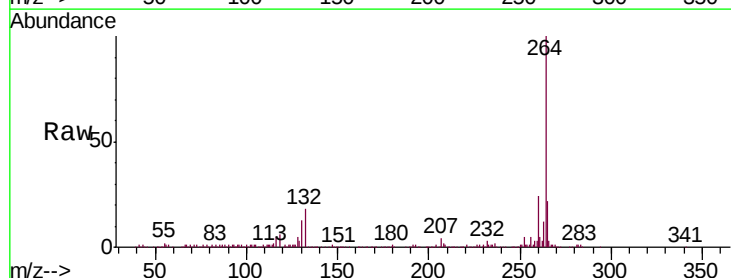
Instrument :
 BNA_F
 ClientSampleId :
 KG-PIT-4DL

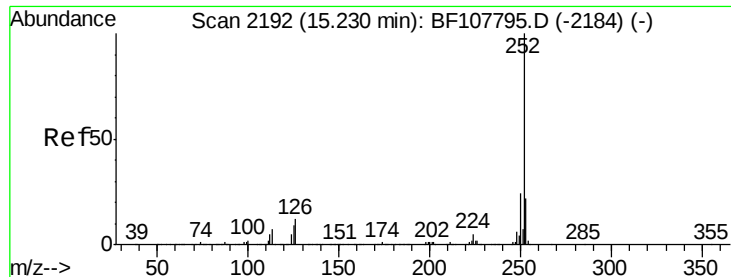
Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.6	25.0	37.6#
277	24.0	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.67 min Scan# 2267
 Delta R.T. -0.02 min
 Lab File: BF107933.D
 Acq: 3 Aug 2018 3:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	22.1	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 38.801 ng

RT: 15.22 min Scan# 2190

Delta R.T. -0.01 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

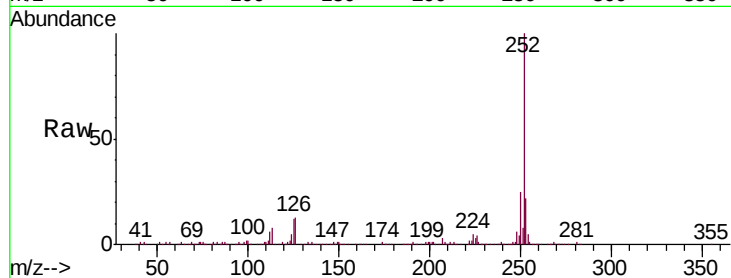
Instrument :

BNA_F

ClientSampleId :

KG-PIT-4DL

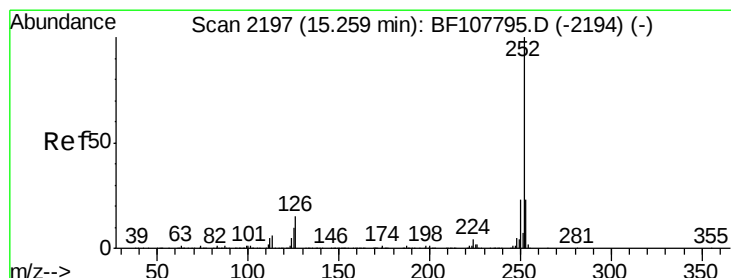
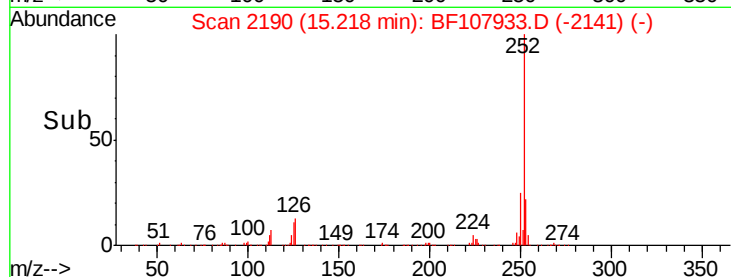
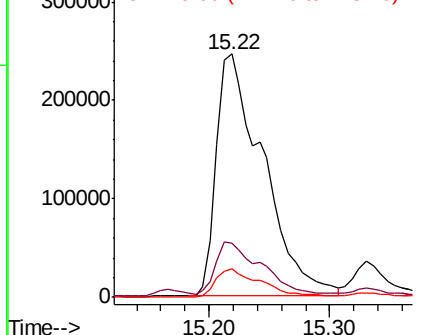
Tgt Ion:	252	Resp:	660250
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.0	25.6
125	11.6	9.0	13.6



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: 31.604 ng

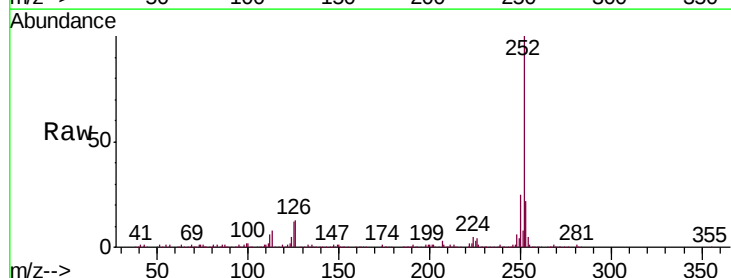
RT: 15.22 min Scan# 2190

Delta R.T. -0.04 min

Lab File: BF107933.D

Acq: 3 Aug 2018 3:59

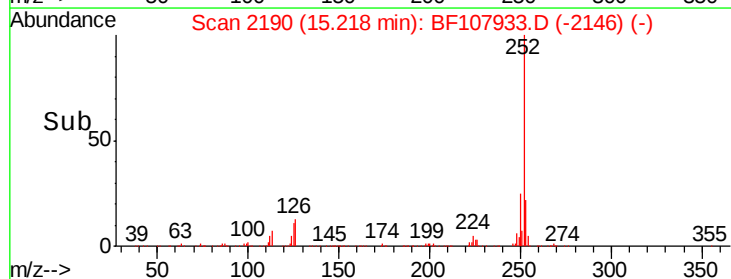
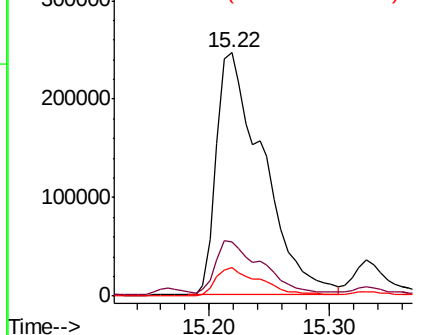
Tgt Ion:	252	Resp:	660250
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.9	26.9
125	11.6	10.2	15.2

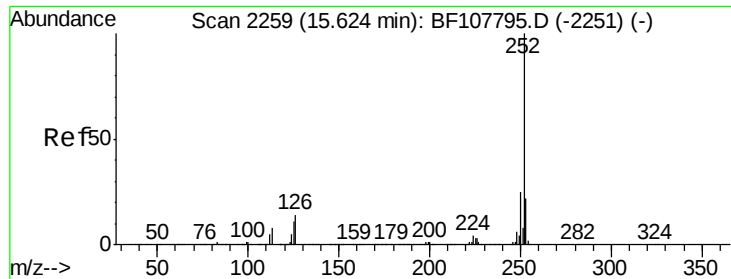


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

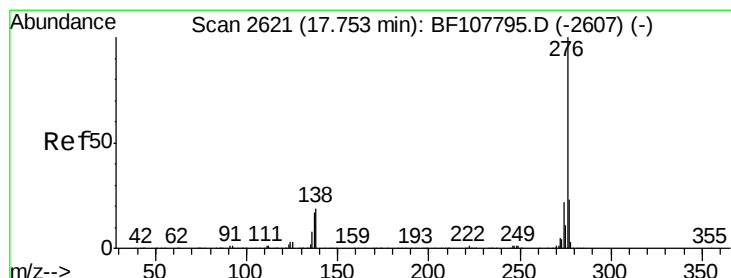
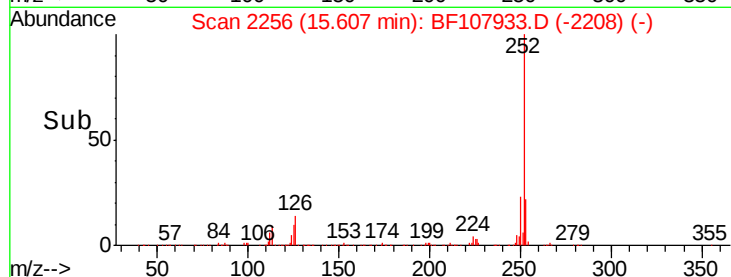
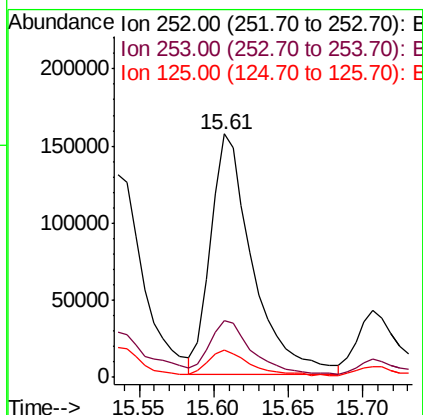
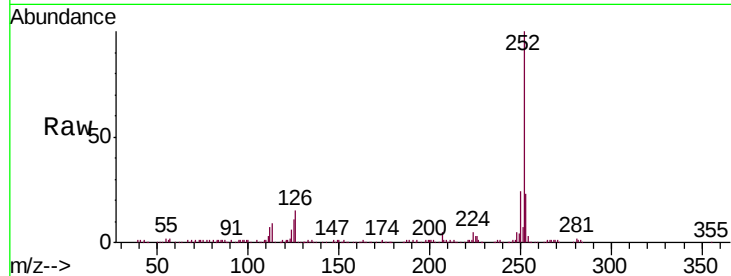




#89
Benzo(a)pyrene
Concen: 17.470 ng
RT: 15.61 min Scan# 2256
Delta R.T. -0.02 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Instrument :
BNA_F
ClientSampleId :
KG-PIT-4DL

Tgt Ion:252 Resp: 306897
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 11.2 9.8 14.6



#91
Benzo(g,h,i)perylene
Concen: 9.865 ng
RT: 17.72 min Scan# 2616
Delta R.T. -0.03 min
Lab File: BF107933.D
Acq: 3 Aug 2018 3:59

Tgt Ion:276 Resp: 146263
Ion Ratio Lower Upper
276 100
277 23.5 17.9 26.9
138 22.2 21.8 32.8

