

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073118\
 Data File : BF107880.D
 Acq On : 1 Aug 2018 5:30
 Operator : JU/SJ
 Sample : J4231-21DL 10X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 01 06:02:54 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	6.97	152	117957	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	558627	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	206378	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	391642	20.00	ng	0.00
75) Chrysene-d12	14.15	240	377979	20.00	ng	0.00
86) Perylene-d12	15.68	264	279283	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.65	112	15331	2.21	ng	0.05
7) Phenol-d6	6.64	99	12397	1.36	ng	0.04
23) Nitrobenzene-d5	7.58	82	18329	1.89	ng	0.05
41) 2,4,6-Tribromophenol	10.81	330	15186	5.42	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	98366	6.64	ng	0.00
78) Terphenyl-d14	13.08	244	115963	6.65	ng	0.00

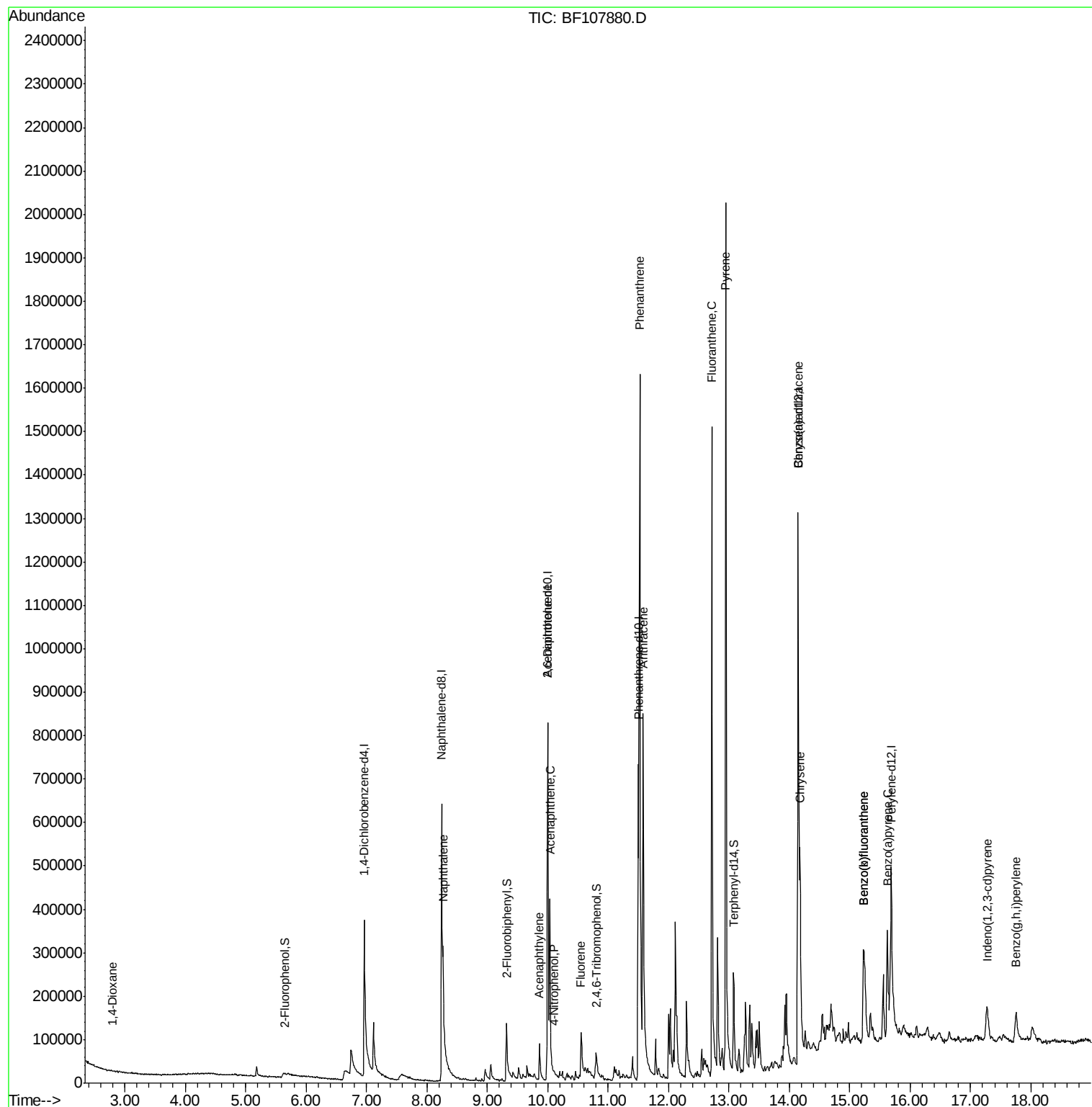
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.80	88	224	5.854	ng	# 20
31) Naphthalene	8.27	128	163901	6.312	ng	99
48) Acenaphthylene	9.87	152	58821	2.679	ng	99
50) 2,6-Dinitrotoluene	10.00	165	26970	8.007	ng	# 25
51) Acenaphthene	10.04	154	114810	9.001	ng	96
55) 4-Nitrophenol	10.10	139	120	9.366	ng	# 9
57) Fluorene	10.55	166	64664	4.221	ng	96
70) Phenanthrene	11.52	178	782323	42.069	ng	99
71) Anthracene	11.58	178	603545	28.138	ng	99
74) Fluoranthene	12.72	202	764854	35.009	ng	97
77) Pyrene	12.95	202	1081667	39.741	ng	98
80) Benzo(a)anthracene	14.14	228	298437	13.938	ng	# 72
82) Chrysene	14.18	228	210300	9.106	ng	94
85) Indeno(1,2,3-cd)pyrene	17.27	276	75013	4.270	ng	# 90
87) Benzo(b)fluoranthene	15.23	252	235400	17.090	ng	98
88) Benzo(k)fluoranthene	15.23	252	235400	13.920	ng	98
89) Benzo(a)pyrene	15.62	252	195879	13.775	ng	99
91) Benzo(g,h,i)perylene	17.75	276	84298	7.024	ng	97

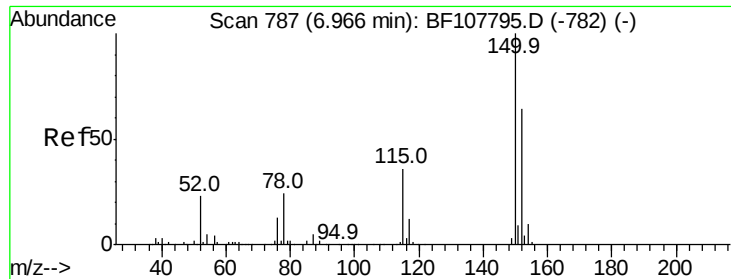
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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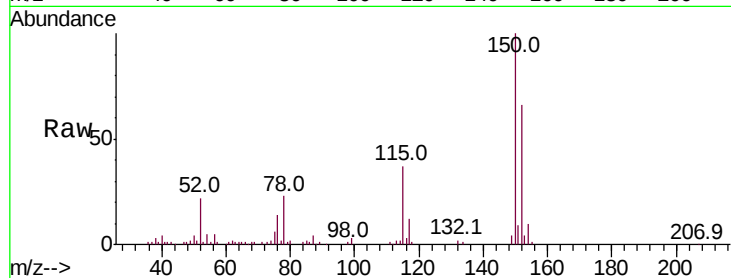


#1

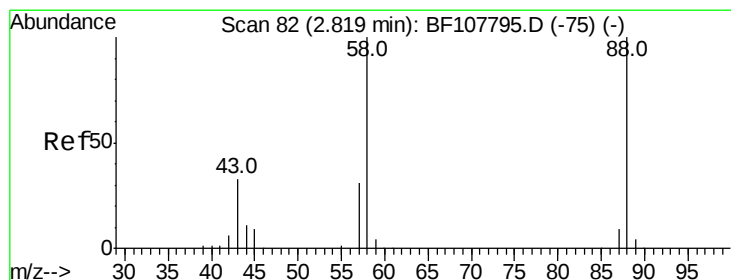
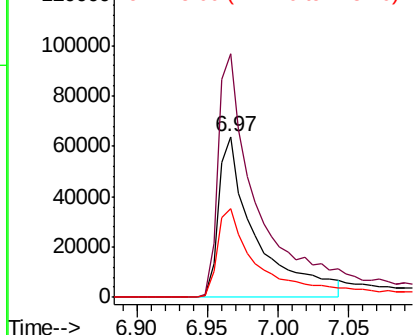
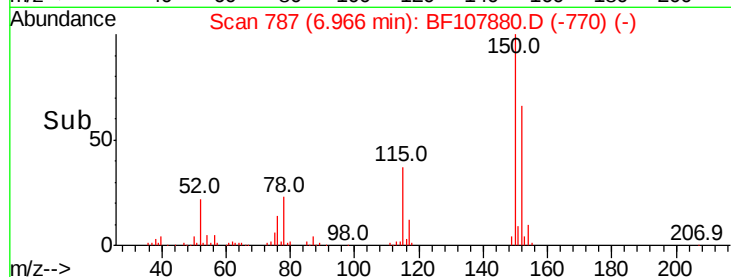
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 117957
Ion Ratio Lower Upper
152 100
150 151.7 124.6 186.8
115 55.6 50.1 75.1



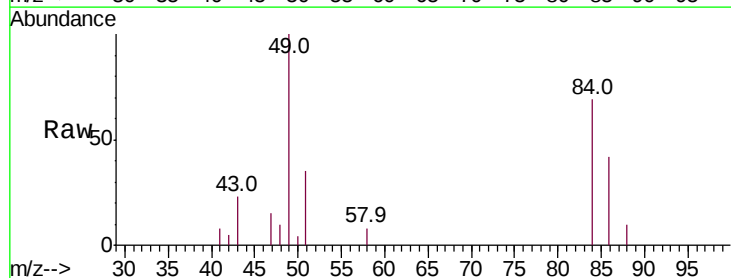
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



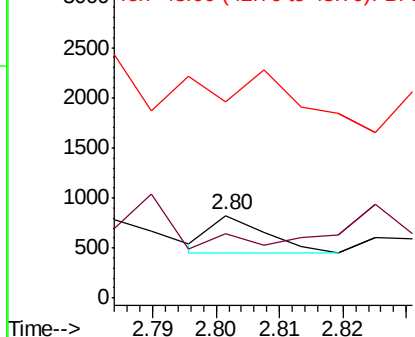
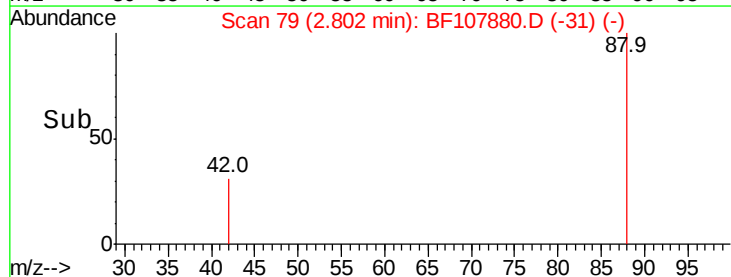
#2

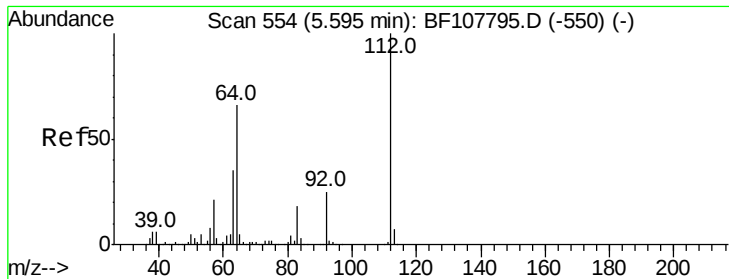
1,4-Dioxane
Concen: 5.854 ng
RT: 2.80 min Scan# 79
Delta R.T. -0.02 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Tgt Ion: 88 Resp: 224
Ion Ratio Lower Upper
88 100
58 0.0 62.6 93.8#
43 0.0 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: 2.209 ng

RT: 5.65 min Scan# 563

Delta R.T. 0.05 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampled :

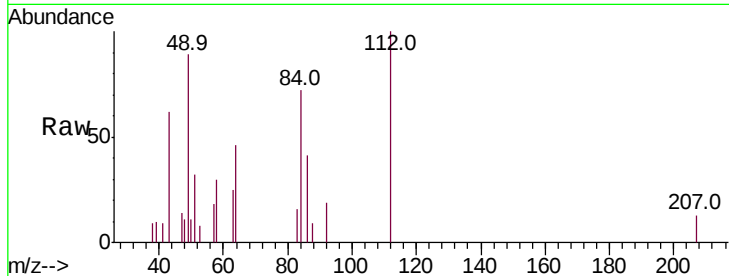
Tot Ion:112 Resp: 15331

Ion Ratio Lower Upper

112 100

64 46.4 47.9 71.9#

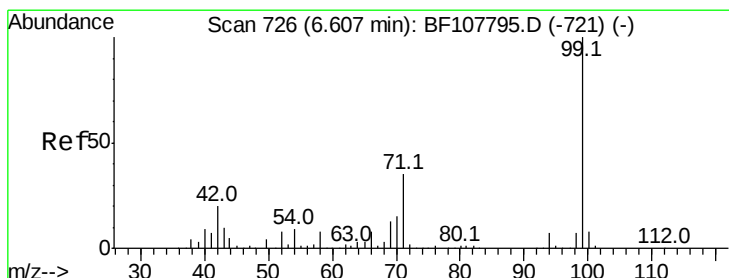
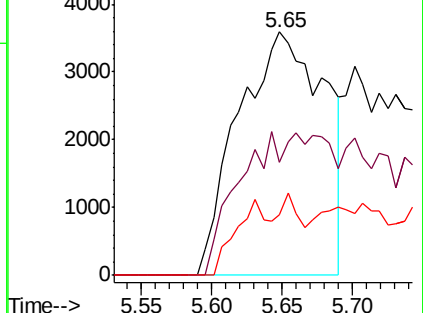
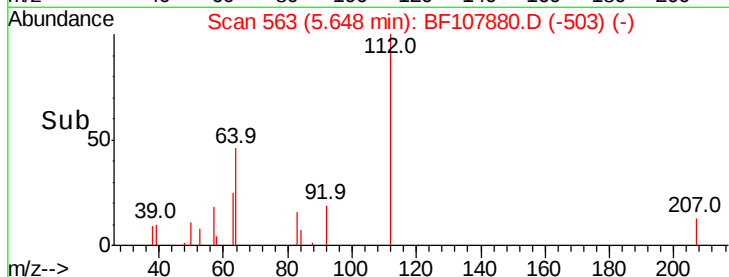
63 24.9 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#7

Phenol-d6

Concen: 1.355 ng

RT: 6.64 min Scan# 732

Delta R.T. 0.04 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

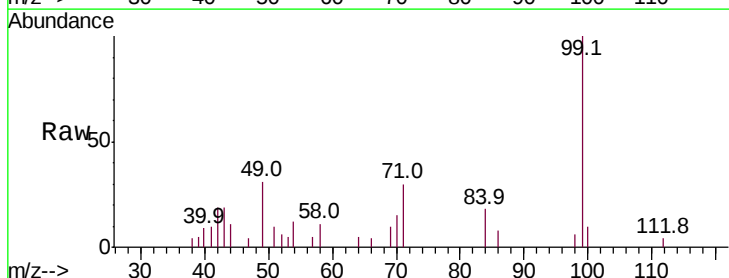
Tgt Ion: 99 Resp: 12397

Ion Ratio Lower Upper

99 100

42 18.7 14.5 21.7

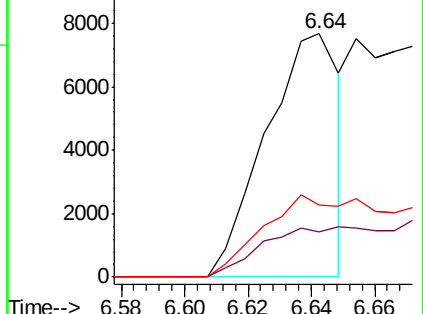
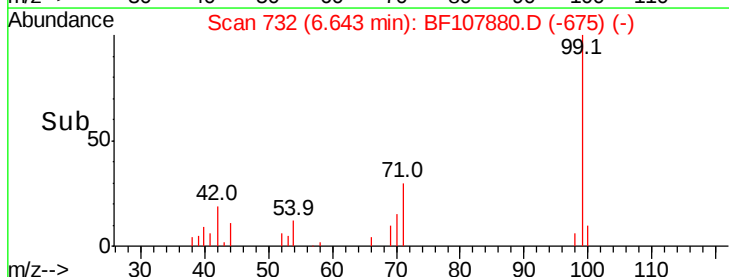
71 29.8 25.4 38.0

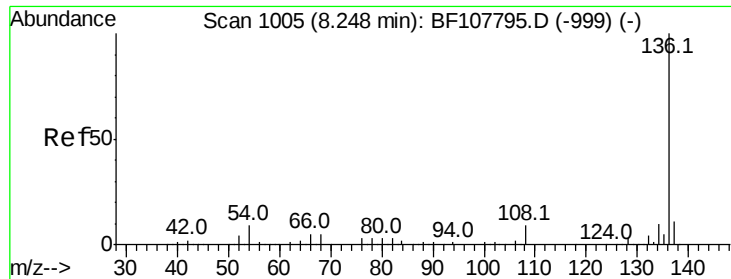


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1

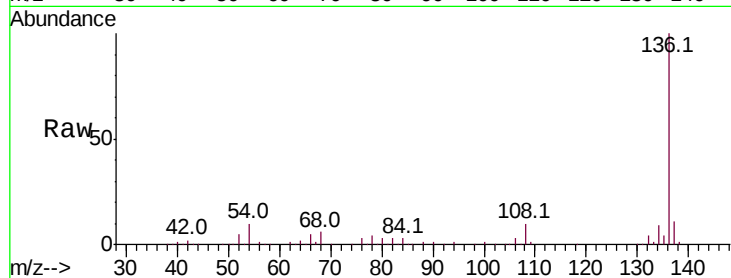




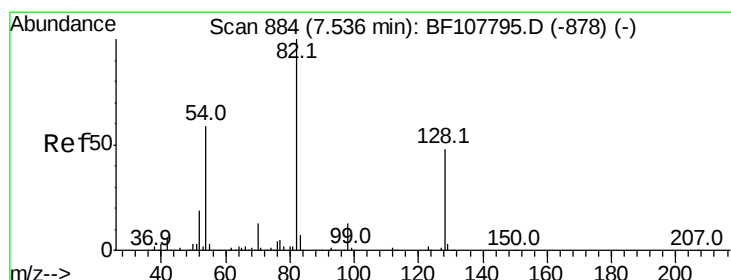
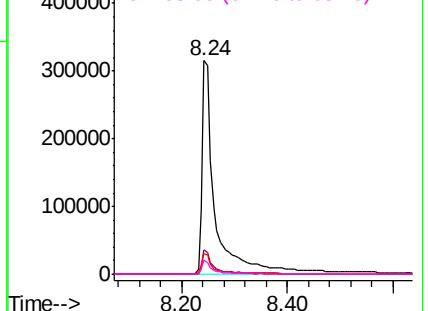
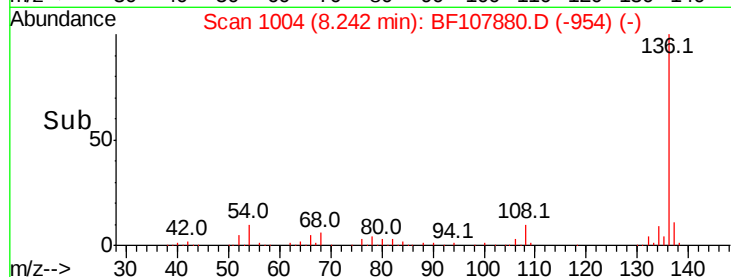
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	558627
Ion	Ratio	Lower Upper
136	100	
137	11.3	8.9 13.3
54	9.7	6.6 9.8
68	6.4	5.0 7.4

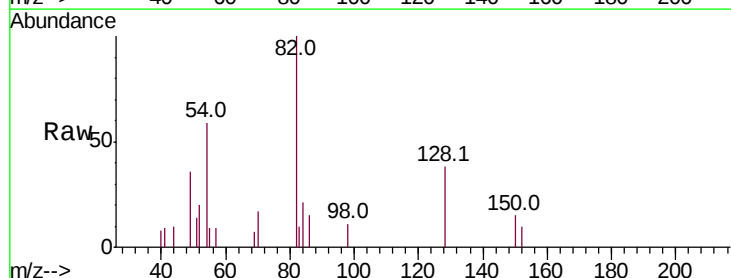


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

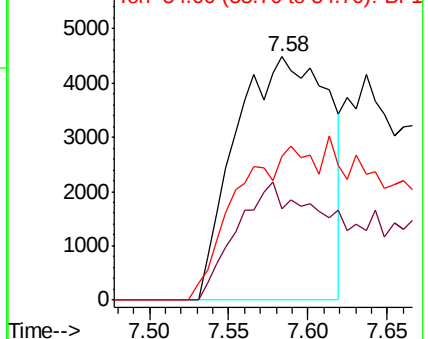
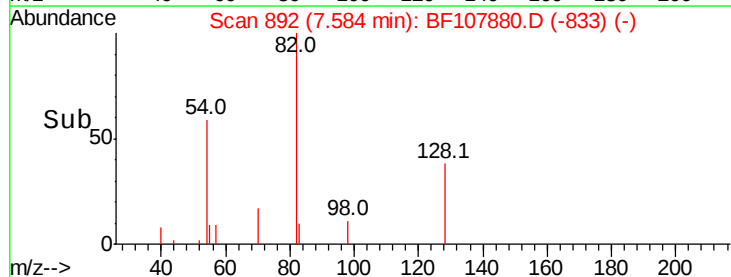


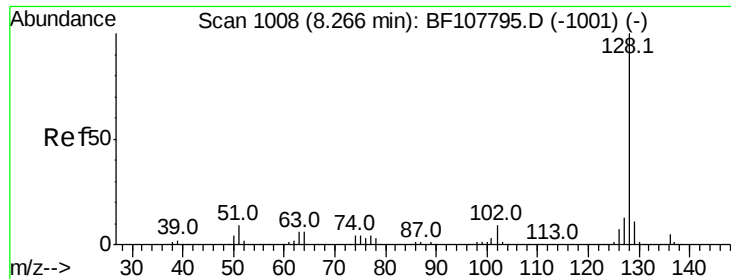
#23
Nitrobenzene-d5
Concen: 1.890 ng
RT: 7.58 min Scan# 892
Delta R.T. 0.05 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Tgt Ion: 82	Resp:	18329
Ion	Ratio	Lower Upper
82	100	
128	37.7	36.1 54.1
54	58.8	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

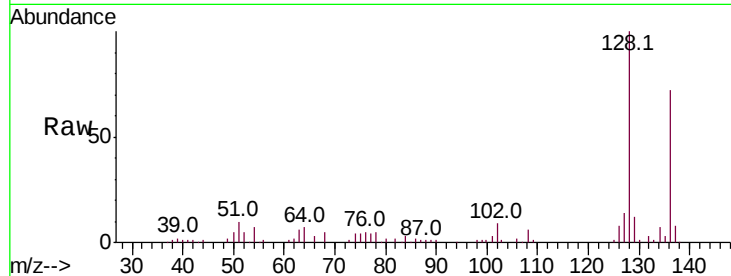




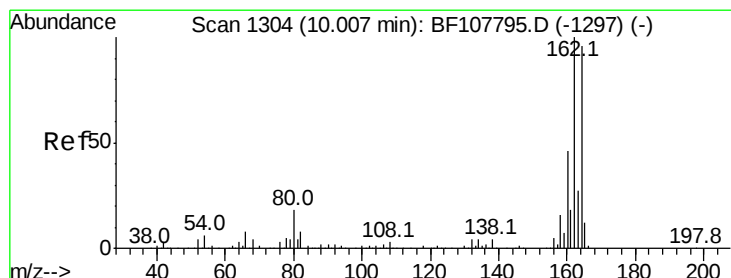
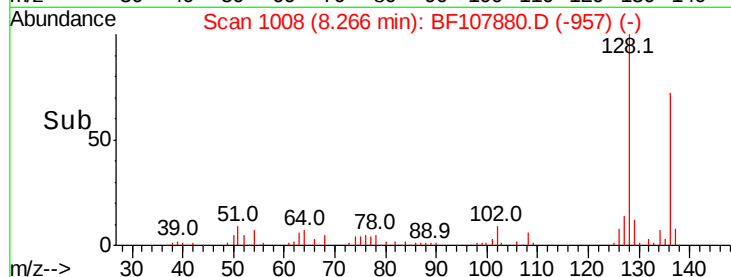
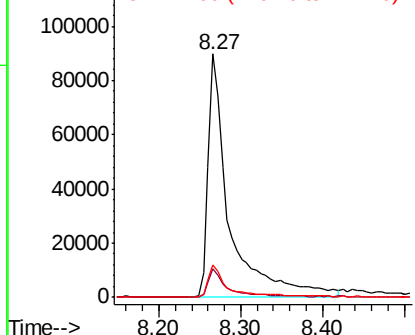
#31
Naphthalene
Concen: 6.312 ng
RT: 8.27 min Scan# 1008
Delta R.T. 0.00 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 163901
Ion Ratio Lower Upper
128 100
129 11.5 8.8 13.2
127 13.6 10.9 16.3

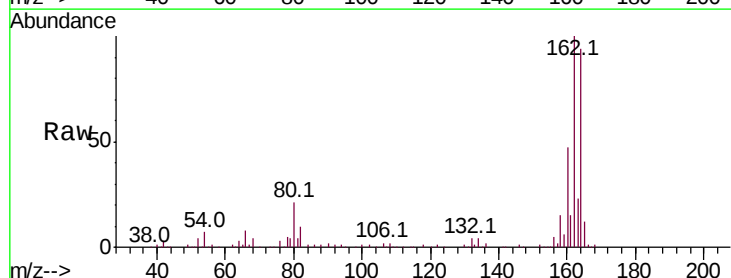


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

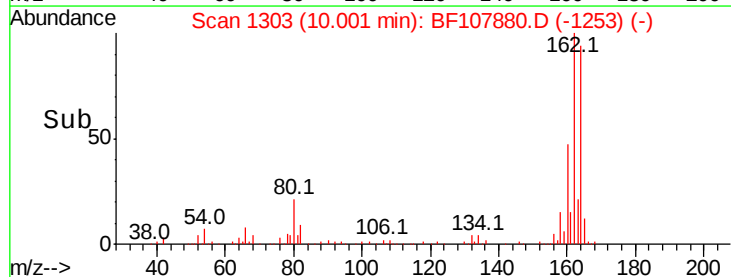
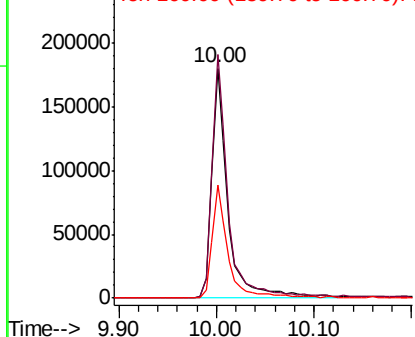


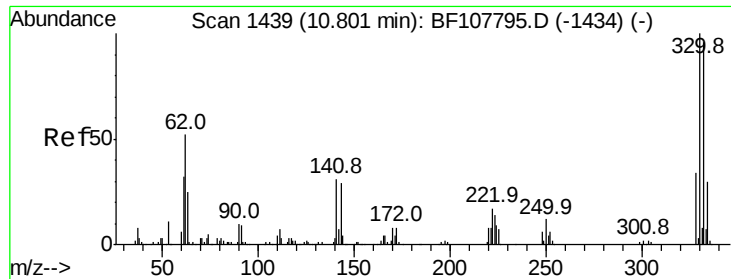
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Tgt Ion:164 Resp: 206378
Ion Ratio Lower Upper
164 100
162 105.9 86.1 129.1
160 49.4 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

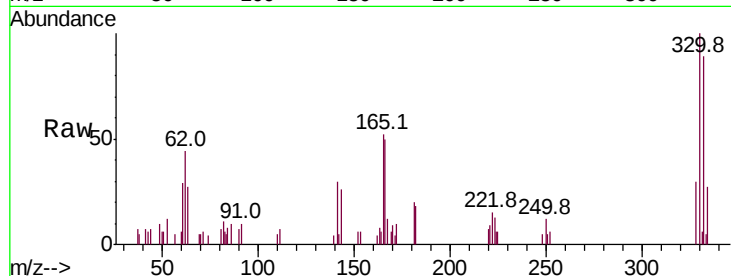




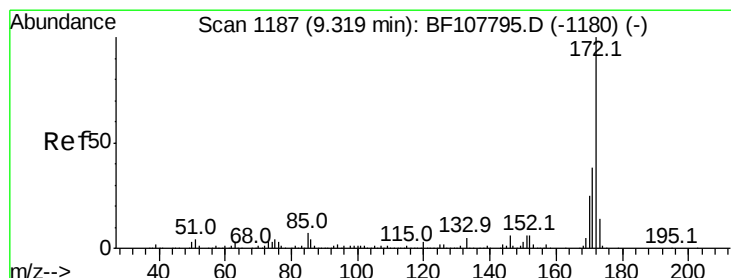
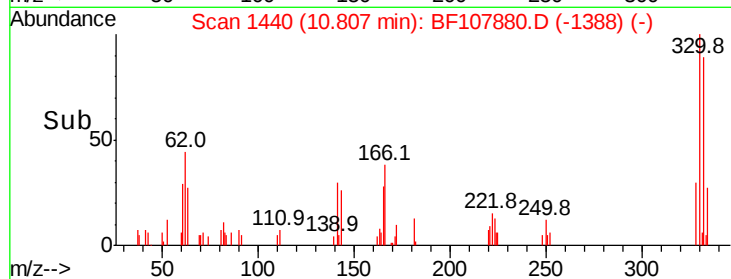
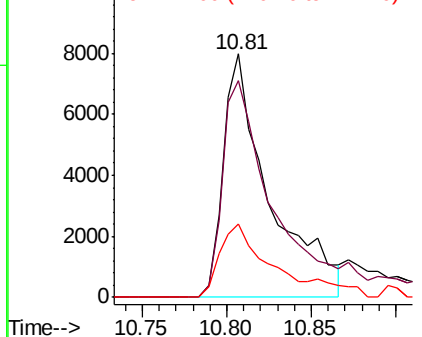
#41
 2,4,6-Tribromophenol
 Concen: 5.415 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: BF107880.D
 Acq: 1 Aug 2018 5:30

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	108.1	77.0	115.6
141	35.7	29.9	44.9

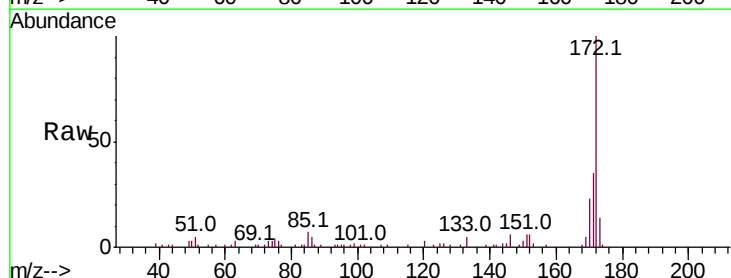


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

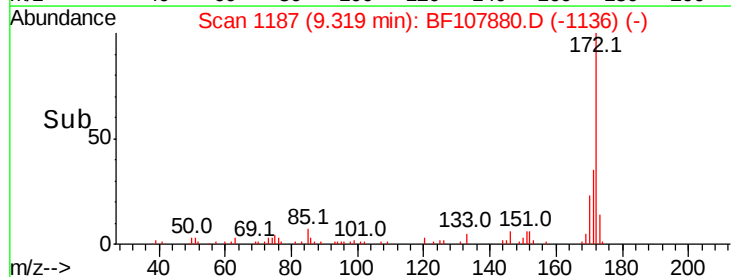
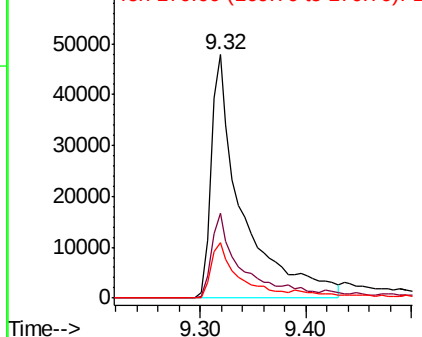


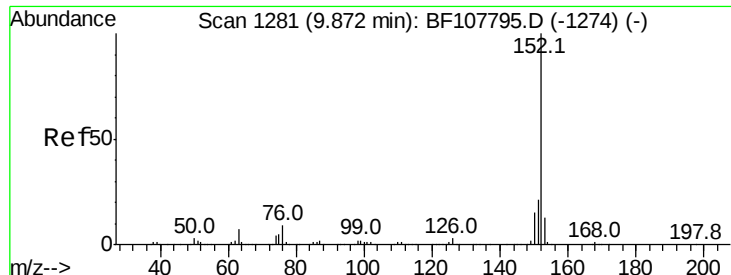
#44
 2-Fluorobiphenyl
 Concen: 6.642 ng
 RT: 9.32 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: BF107880.D
 Acq: 1 Aug 2018 5:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.7	44.5
170	22.7	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: 2.679 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampleId :

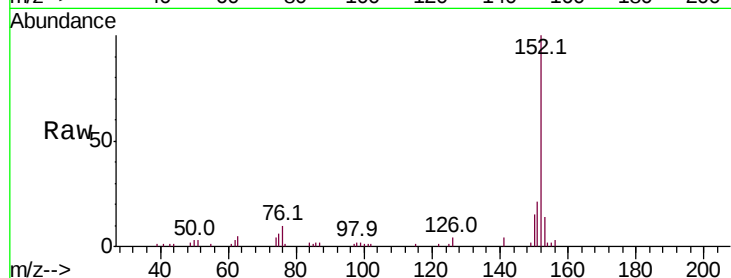
Tot Ion:152 Resp: 58821

Ion Ratio Lower Upper

152 100

151 21.1 16.3 24.5

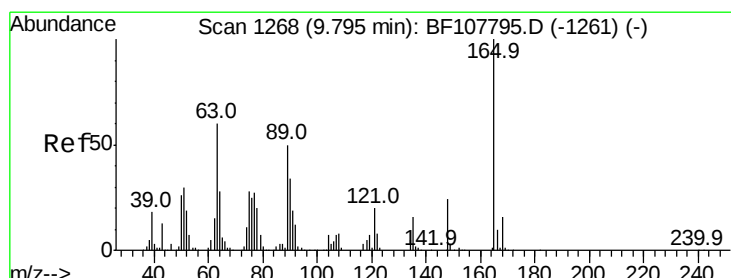
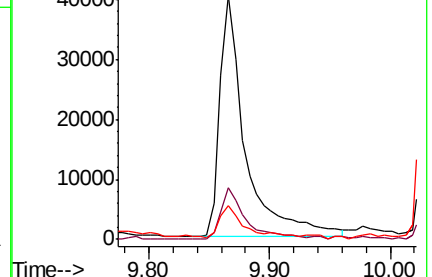
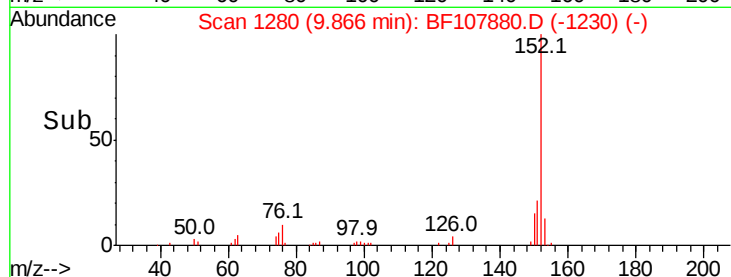
153 13.6 10.7 16.1



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: 8.007 ng

RT: 10.00 min Scan# 1303

Delta R.T. 0.21 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

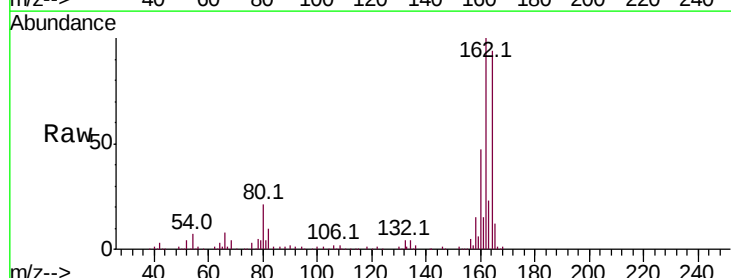
Tgt Ion:165 Resp: 26970

Ion Ratio Lower Upper

165 100

63 2.3 44.7 67.1#

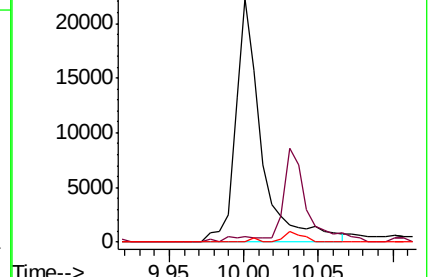
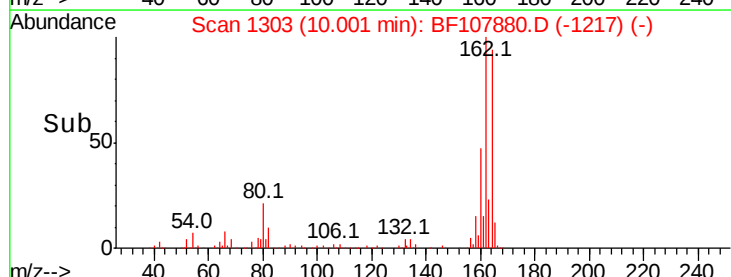
89 0.0 44.0 66.0#

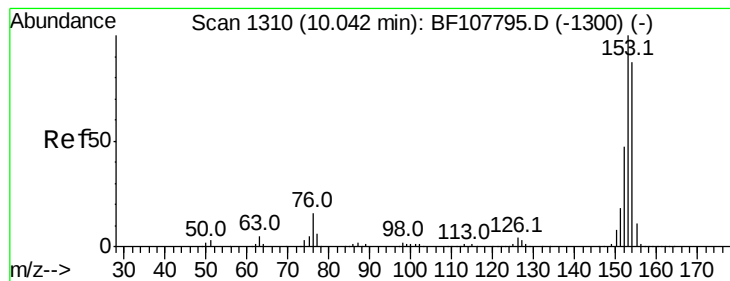


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 9.001 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampleId :

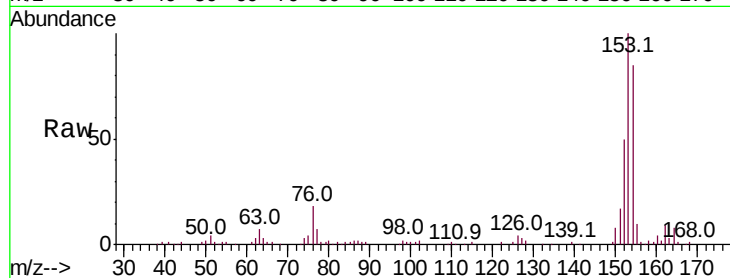
Tot Ion:154 Resp: 114810

Ion Ratio Lower Upper

154 100

153 117.8 91.2 136.8

152 58.4 43.8 65.8

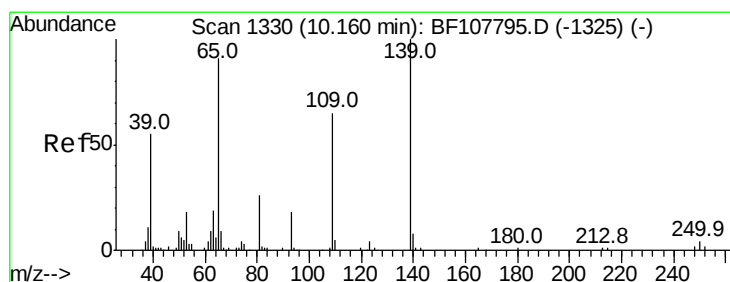
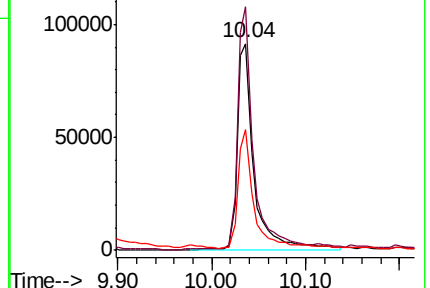
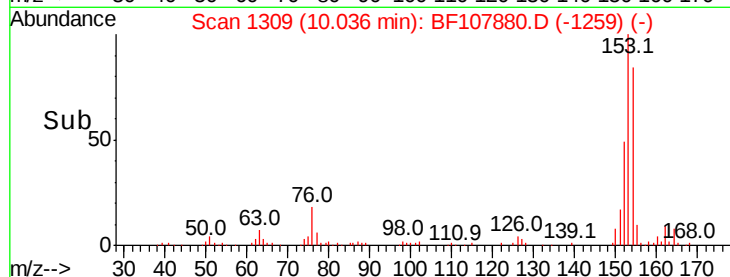


Abundance

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: 9.366 ng

RT: 10.10 min Scan# 1320

Delta R.T. -0.06 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

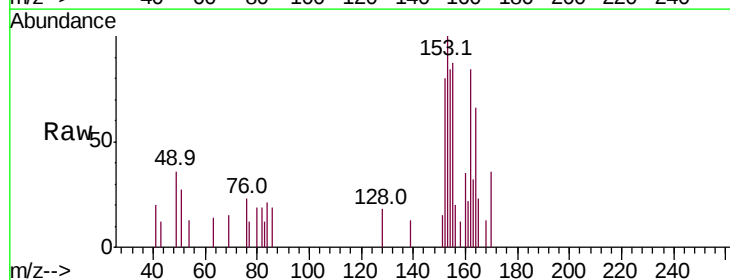
Tgt Ion:139 Resp: 120

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

65 0.0 72.6 112.6#

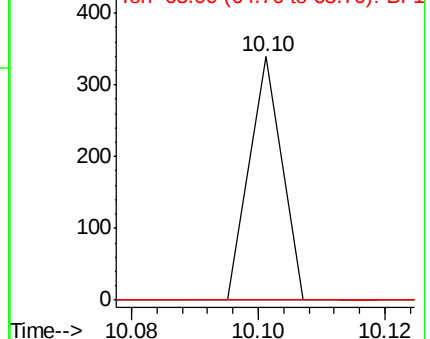
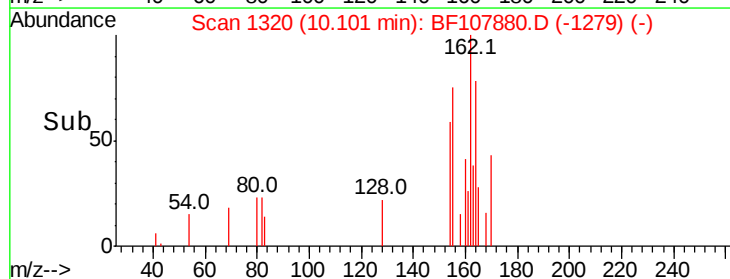


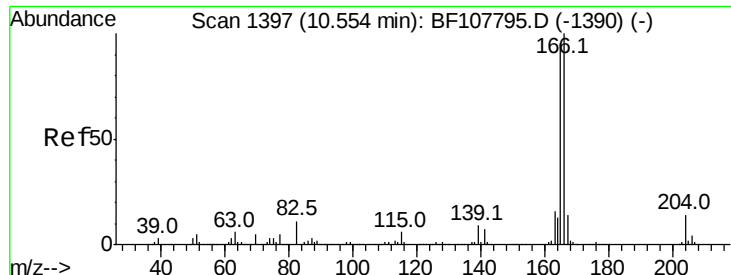
Abundance

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





#57

Fluorene

Concen: 4.221 ng

RT: 10.55 min Scan# 1397

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampleId :

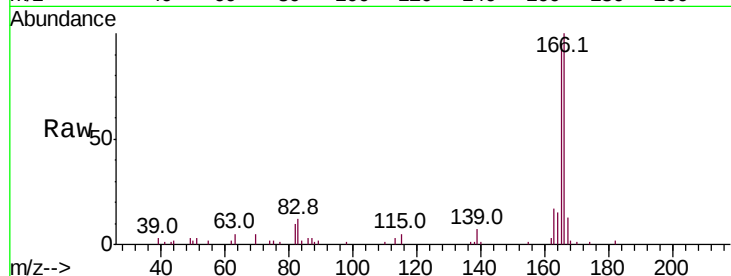
Tot Ion:166 Resp: 64664

Ion Ratio Lower Upper

166 100

165 95.3 79.8 119.8

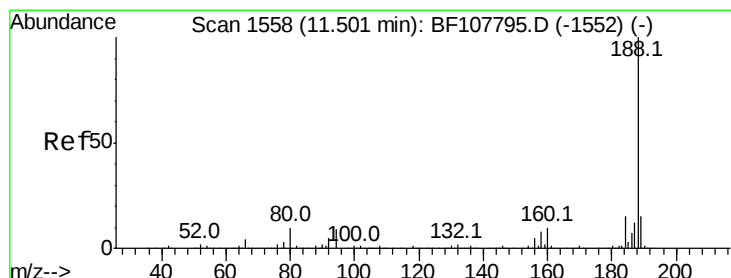
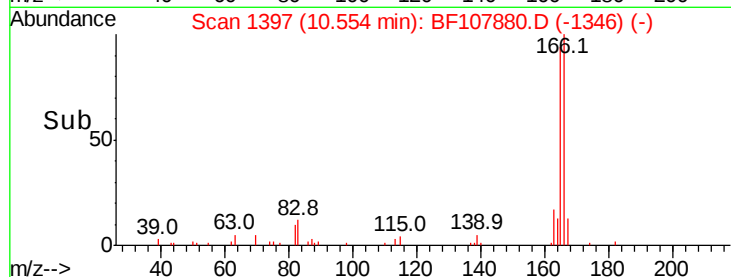
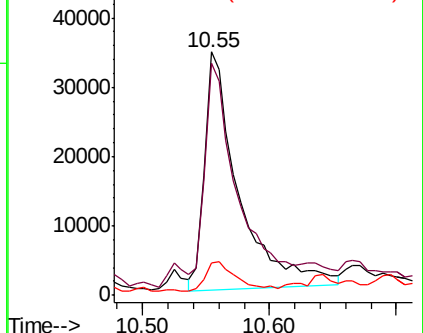
167 13.2 10.6 16.0



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: 11.50 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

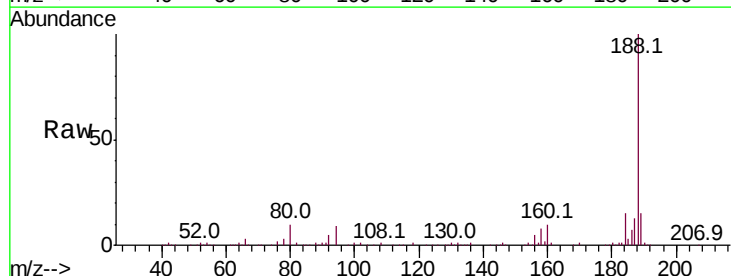
Tgt Ion:188 Resp: 391642

Ion Ratio Lower Upper

188 100

94 9.0 8.5 12.7

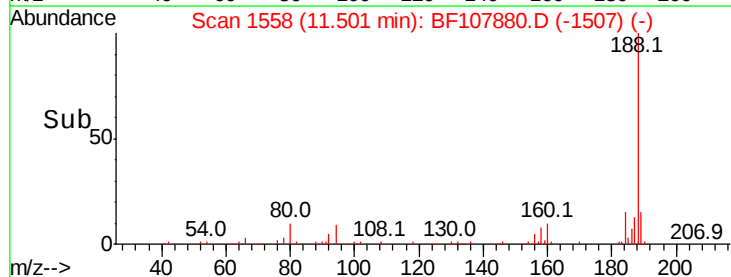
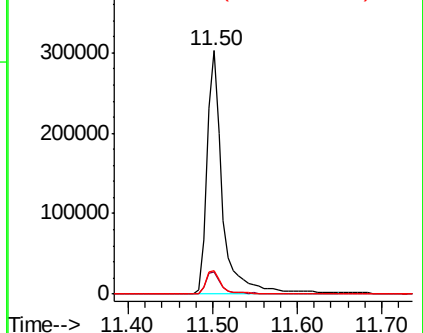
80 9.7 9.2 13.8

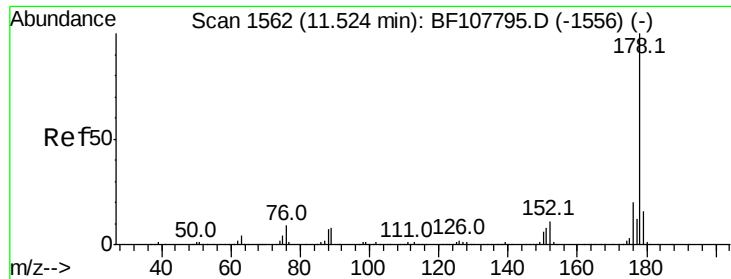


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 42.069 ng

RT: 11.52 min Scan# 1562

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampleId :

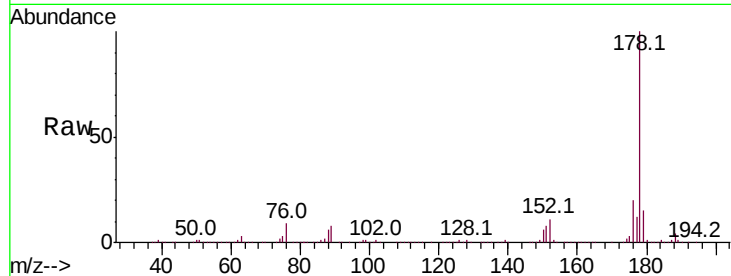
Tot Ion:178 Resp: 782323

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

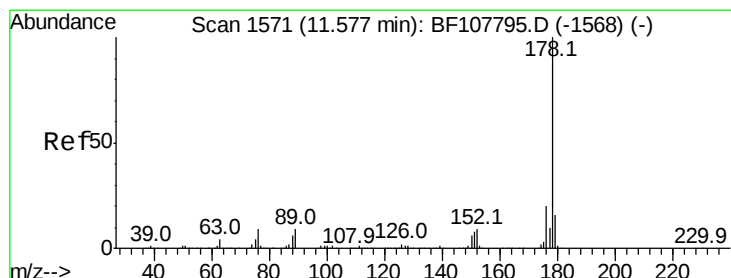
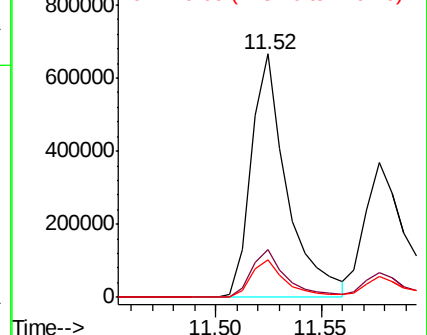
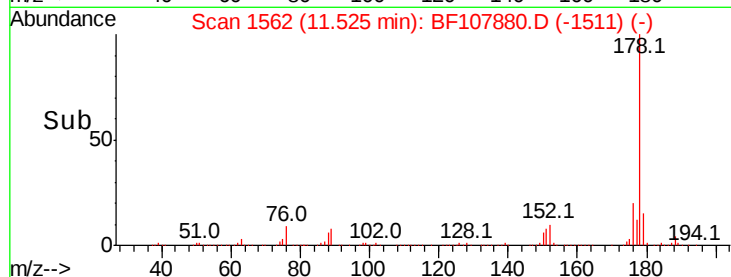
179 15.4 13.0 19.6



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: 28.138 ng

RT: 11.58 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

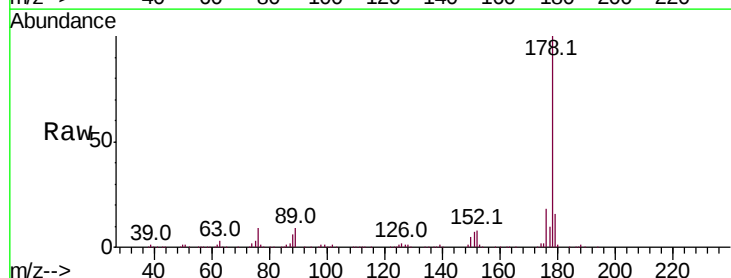
Tgt Ion:178 Resp: 603545

Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.2

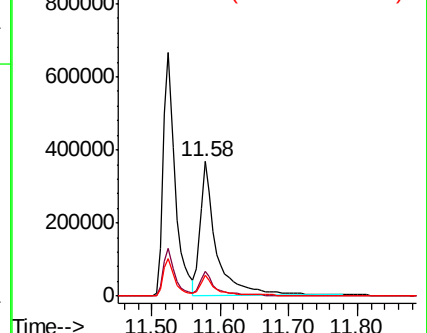
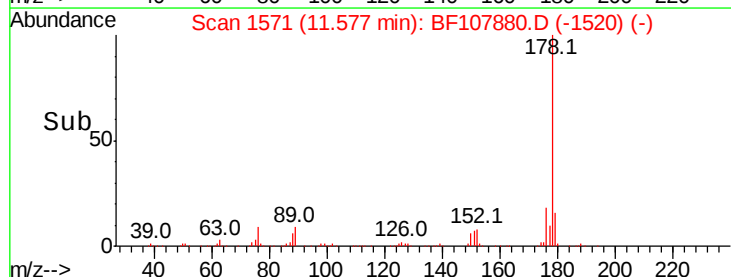
179 15.8 12.6 19.0

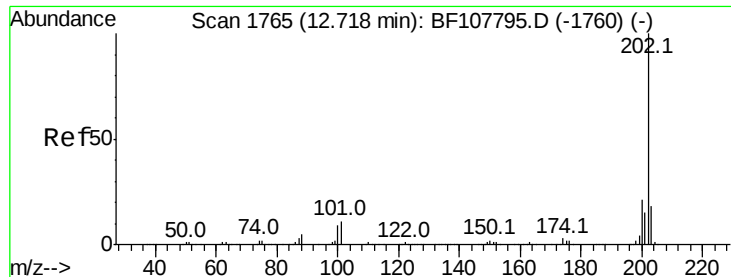


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 35.009 ng

RT: 12.72 min Scan# 1765

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampled :

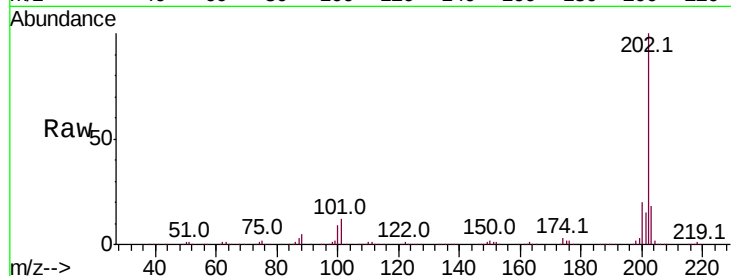
Tot Ion:202 Resp: 764854

Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.1

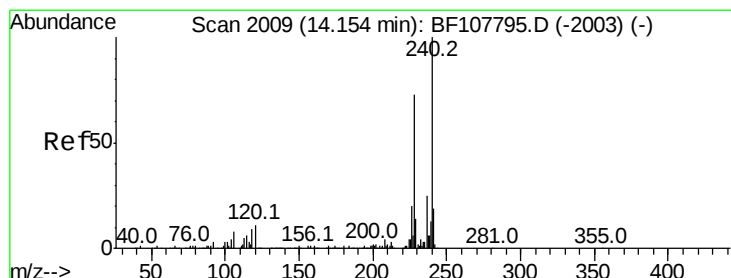
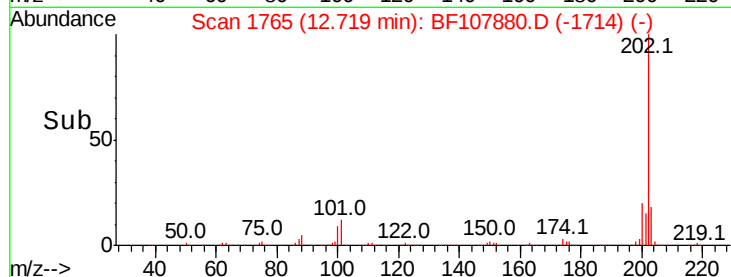
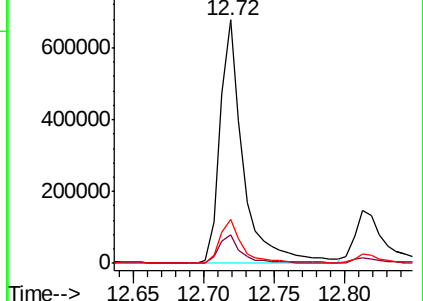
203 17.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

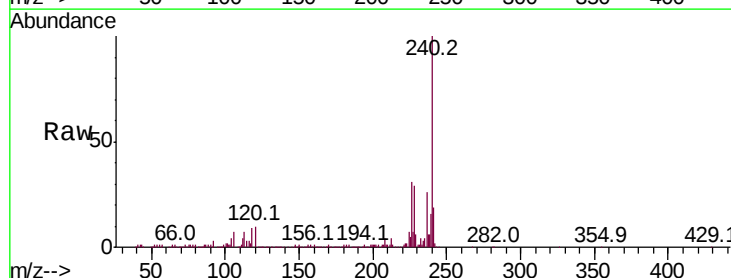
Tgt Ion:240 Resp: 377979

Ion Ratio Lower Upper

240 100

120 10.3 9.5 14.3

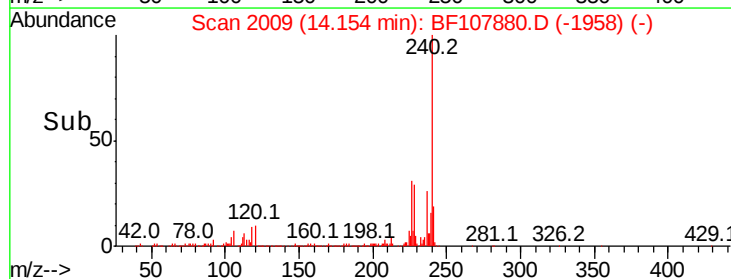
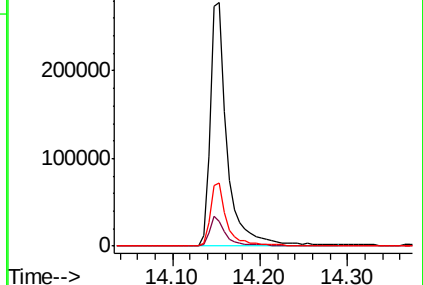
236 25.7 20.7 31.1

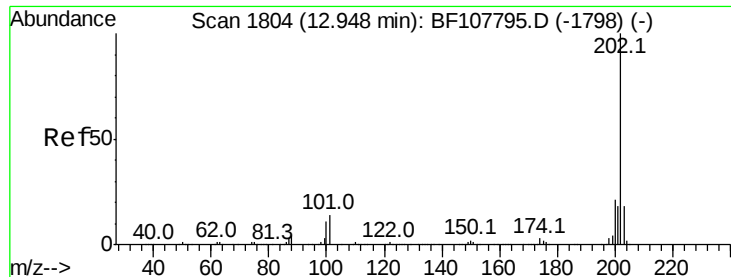


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 39.741 ng

RT: 12.95 min Scan# 1804

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

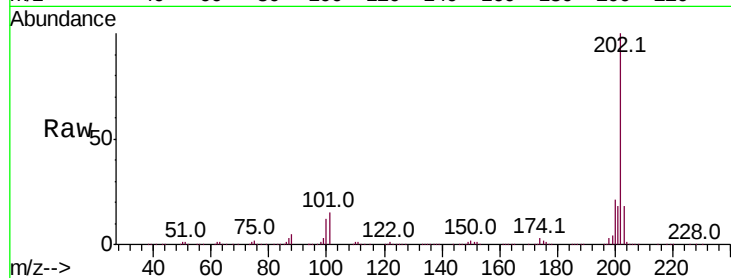
Instrument :

BNA_F

ClientSampled :

Tot Ion:202 Resp: 1081667

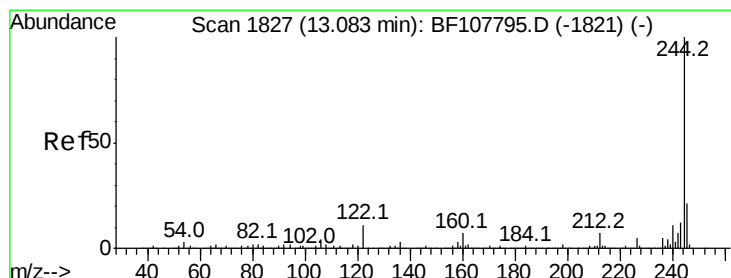
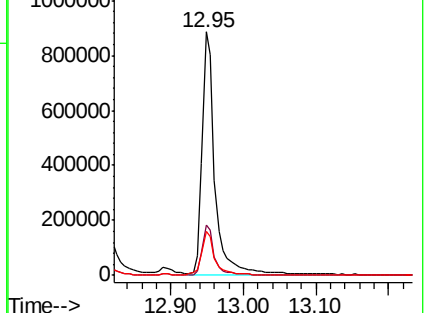
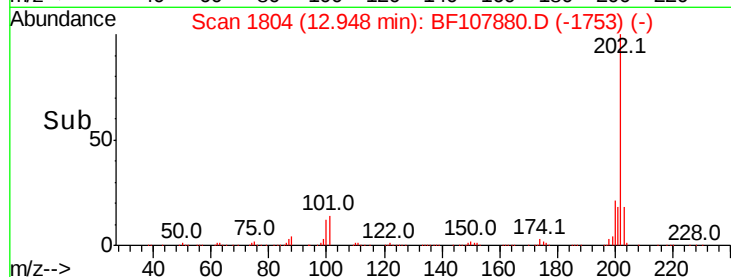
Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.4	26.2
203	18.1	14.3	21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 6.653 ng

RT: 13.08 min Scan# 1826

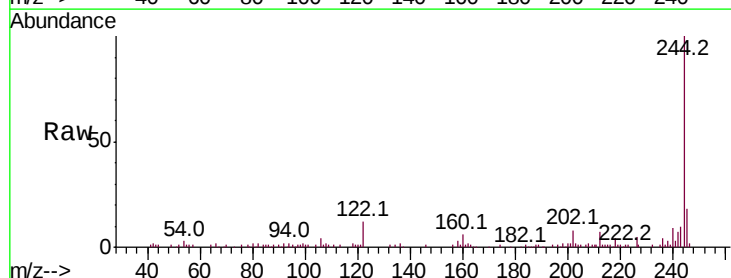
Delta R.T. -0.01 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Tgt Ion:244 Resp: 115963

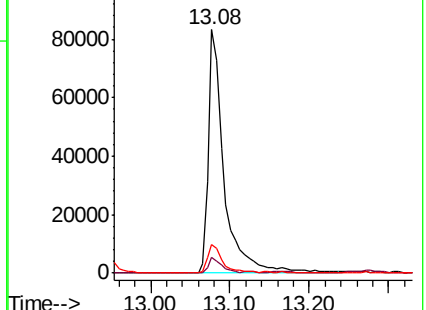
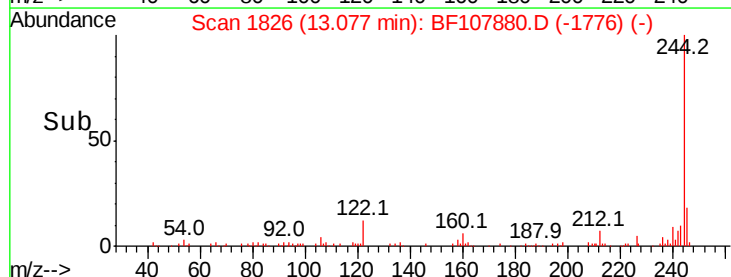
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.7	11.0	16.4

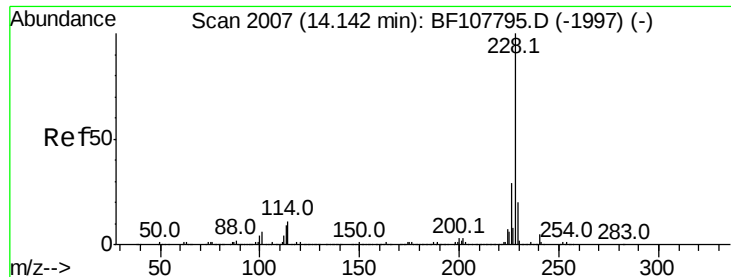


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

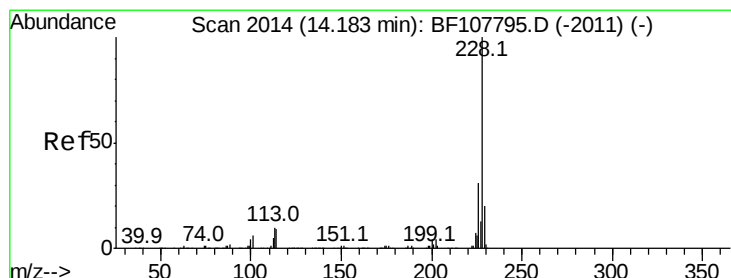
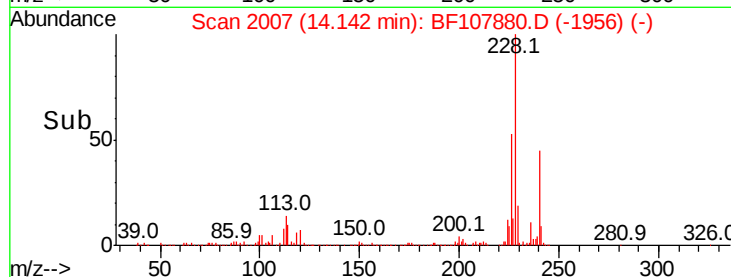
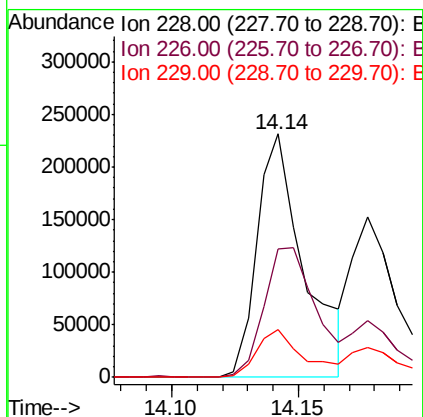
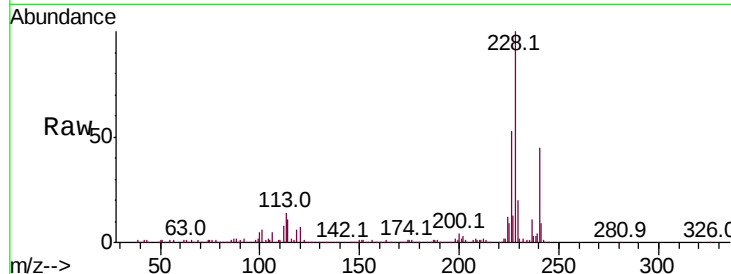




#80
Benzo(a)anthracene
Concen: 13.938 ng
RT: 14.14 min Scan# 2007
Delta R.T. 0.00 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

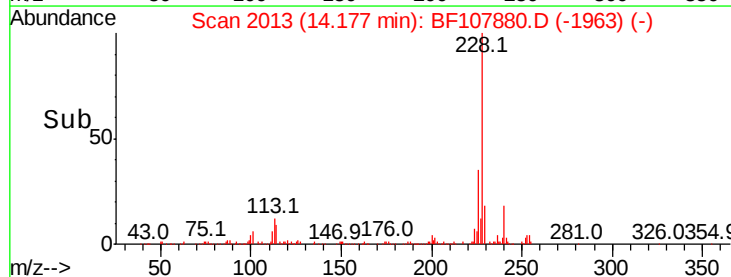
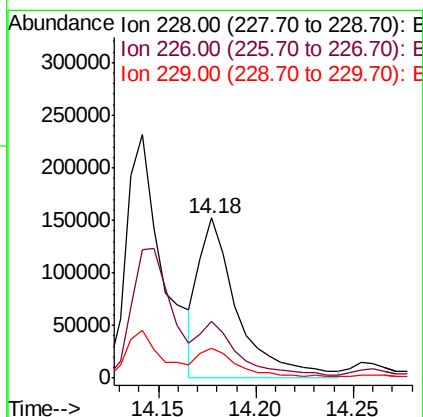
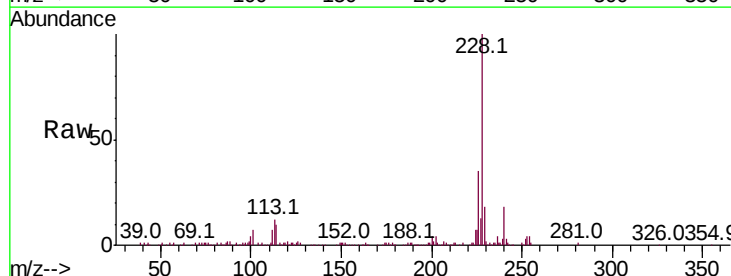
Instrument :
BNA_F
ClientSampleId :

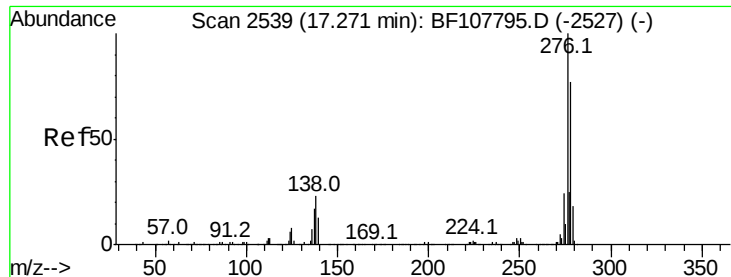
Tot Ion:228 Resp: 298437
Ion Ratio Lower Upper
228 100
226 52.8 22.6 33.8#
229 19.7 15.8 23.6



#82
Chrysene
Concen: 9.106 ng
RT: 14.18 min Scan# 2013
Delta R.T. -0.01 min
Lab File: BF107880.D
Acq: 1 Aug 2018 5:30

Tgt Ion:228 Resp: 210300
Ion Ratio Lower Upper
228 100
226 35.4 25.0 37.6
229 18.5 16.2 24.4

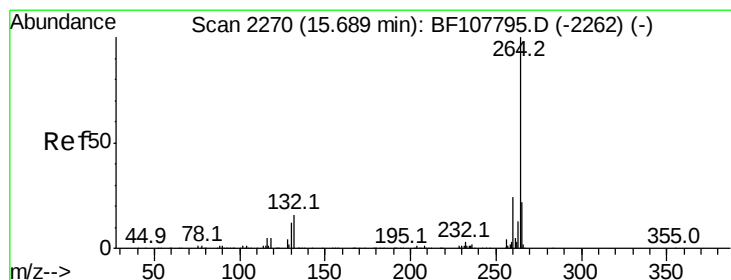
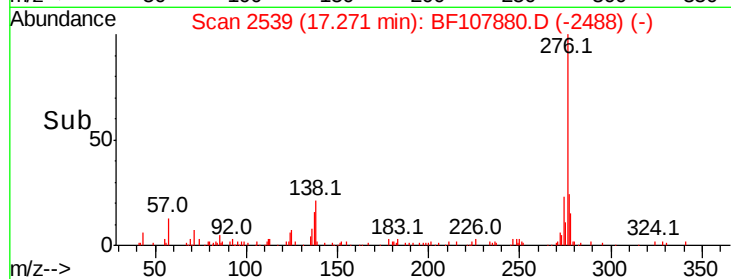
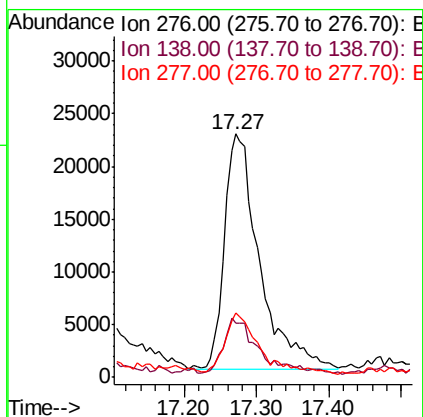
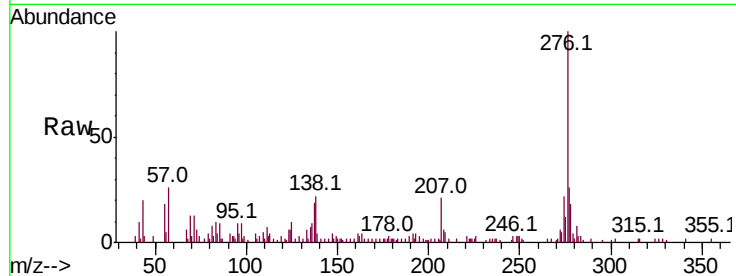




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.270 ng
 RT: 17.27 min Scan# 2539
 Delta R.T. 0.00 min
 Lab File: BF107880.D
 Acq: 1 Aug 2018 5:30

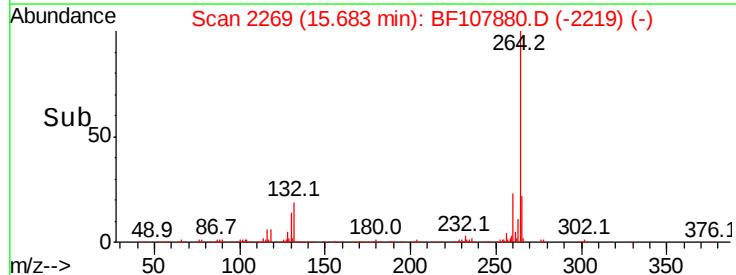
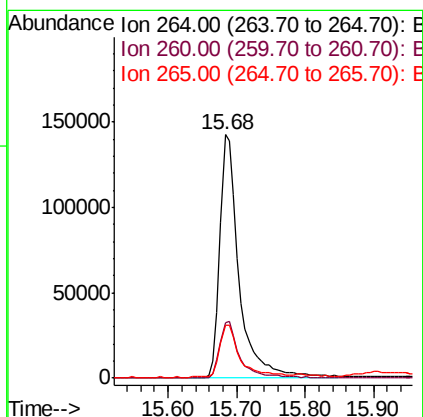
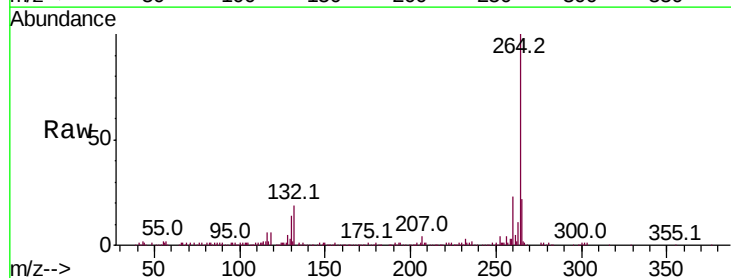
Instrument :
 BNA_F
 ClientSampleId :

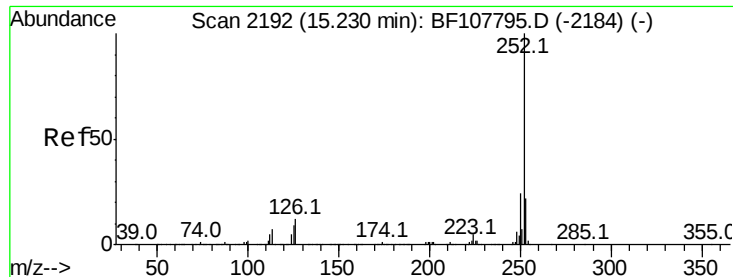
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	25.0	37.6#
277	25.6	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.68 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BF107880.D
 Acq: 1 Aug 2018 5:30

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.2	28.8
265	21.7	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 17.090 ng

RT: 15.23 min Scan# 2192

Delta R.T. 0.00 min

Lab File: BF107880.D

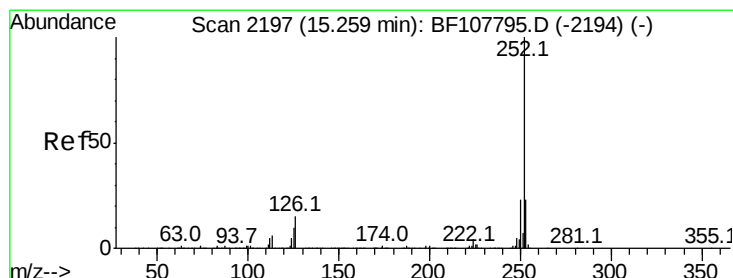
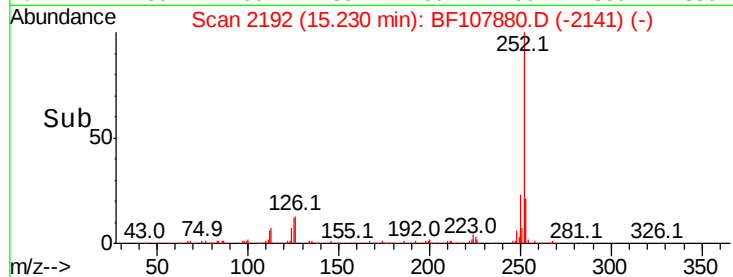
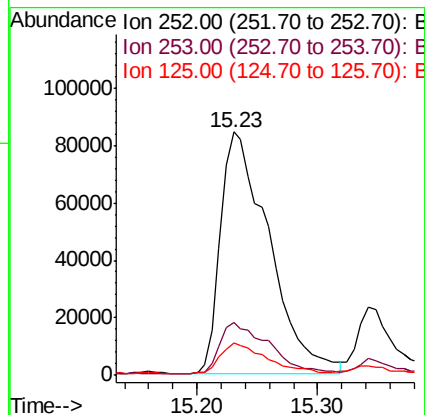
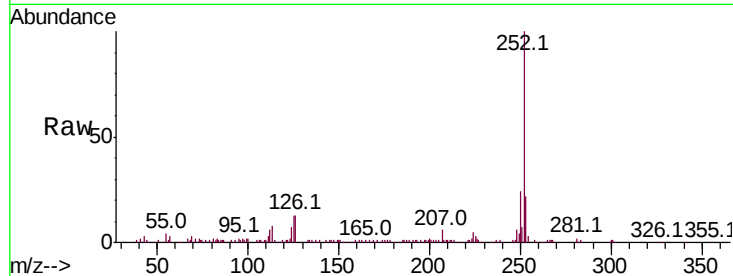
Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	235400
Ion Ratio	Lower	Upper	
252	100		
253	21.6	17.0	25.6
125	13.4	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 13.920 ng

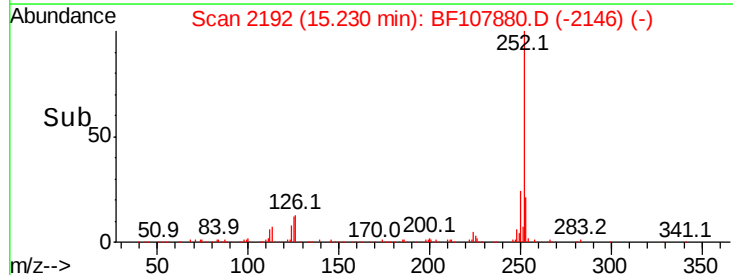
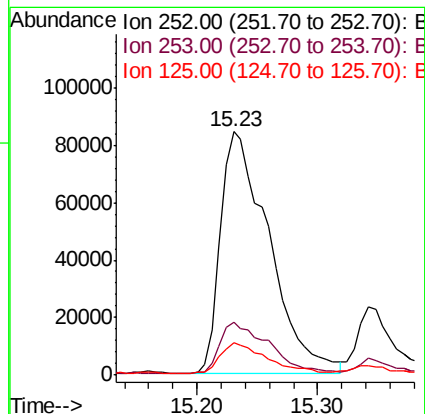
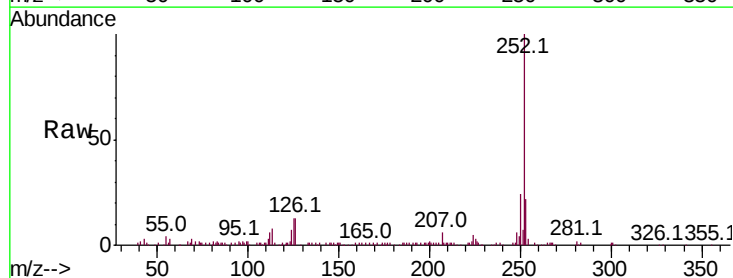
RT: 15.23 min Scan# 2192

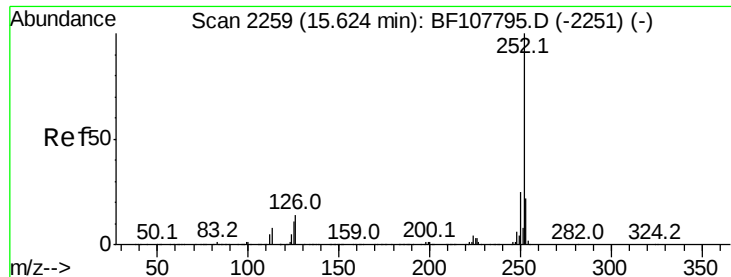
Delta R.T. -0.03 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Tgt Ion:	252	Resp:	235400
Ion Ratio	Lower	Upper	
252	100		
253	21.6	17.9	26.9
125	13.4	10.2	15.2





#89

Benzo(a)pyrene

Concen: 13.775 ng

RT: 15.62 min Scan# 2259

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

Instrument :

BNA_F

ClientSampled :

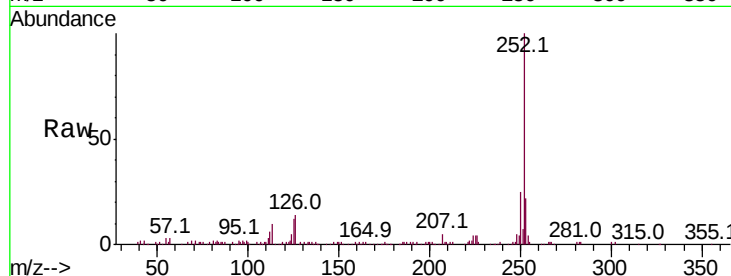
Tot Ion:252 Resp: 195879

Ion Ratio Lower Upper

252 100

253 22.0 17.1 25.7

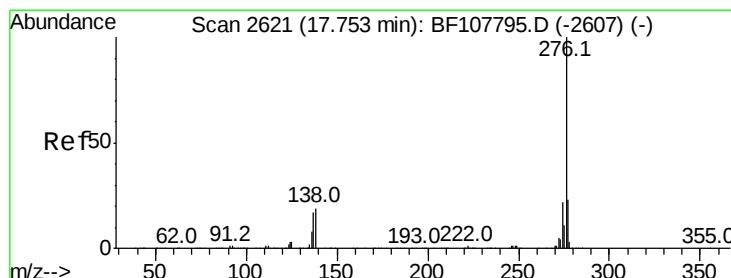
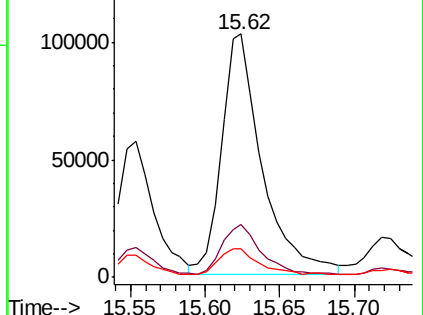
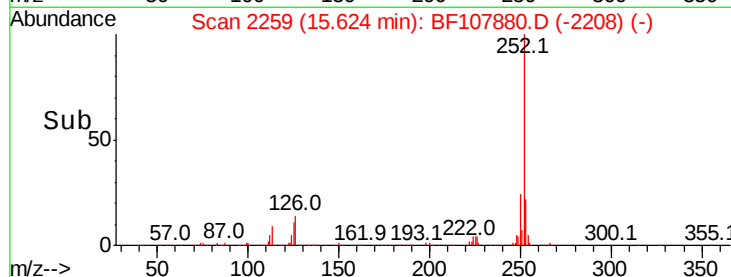
125 11.7 9.8 14.6



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: 7.024 ng

RT: 17.75 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BF107880.D

Acq: 1 Aug 2018 5:30

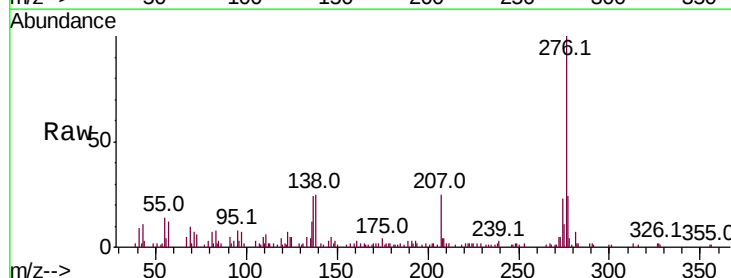
Tgt Ion:276 Resp: 84298

Ion Ratio Lower Upper

276 100

277 23.7 17.9 26.9

138 25.2 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

