

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080318\
 Data File : BF107946.D
 Acq On : 3 Aug 2018 19:06
 Operator : JU/SJ
 Sample : J4316-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 03 22:59:46 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	118594	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	522769	20.00	ng	-0.01
38) Acenaphthene-d10	9.99	164	236634	20.00	ng	-0.02
63) Phenanthrene-d10	11.49	188	461273	20.00	ng	-0.01
75) Chrysene-d12	14.14	240	319260	20.00	ng	-0.01
86) Perylene-d12	15.67	264	347758	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.60	112	913261	130.88	ng	0.00
7) Phenol-d6	6.60	99	1228683	133.60	ng	0.00
23) Nitrobenzene-d5	7.52	82	758258	83.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.79	330	355842	110.67	ng	-0.01
44) 2-Fluorobiphenyl	9.31	172	1413074	83.21	ng	-0.01
78) Terphenyl-d14	13.07	244	1126185	76.49	ng	-0.01

Target Compounds

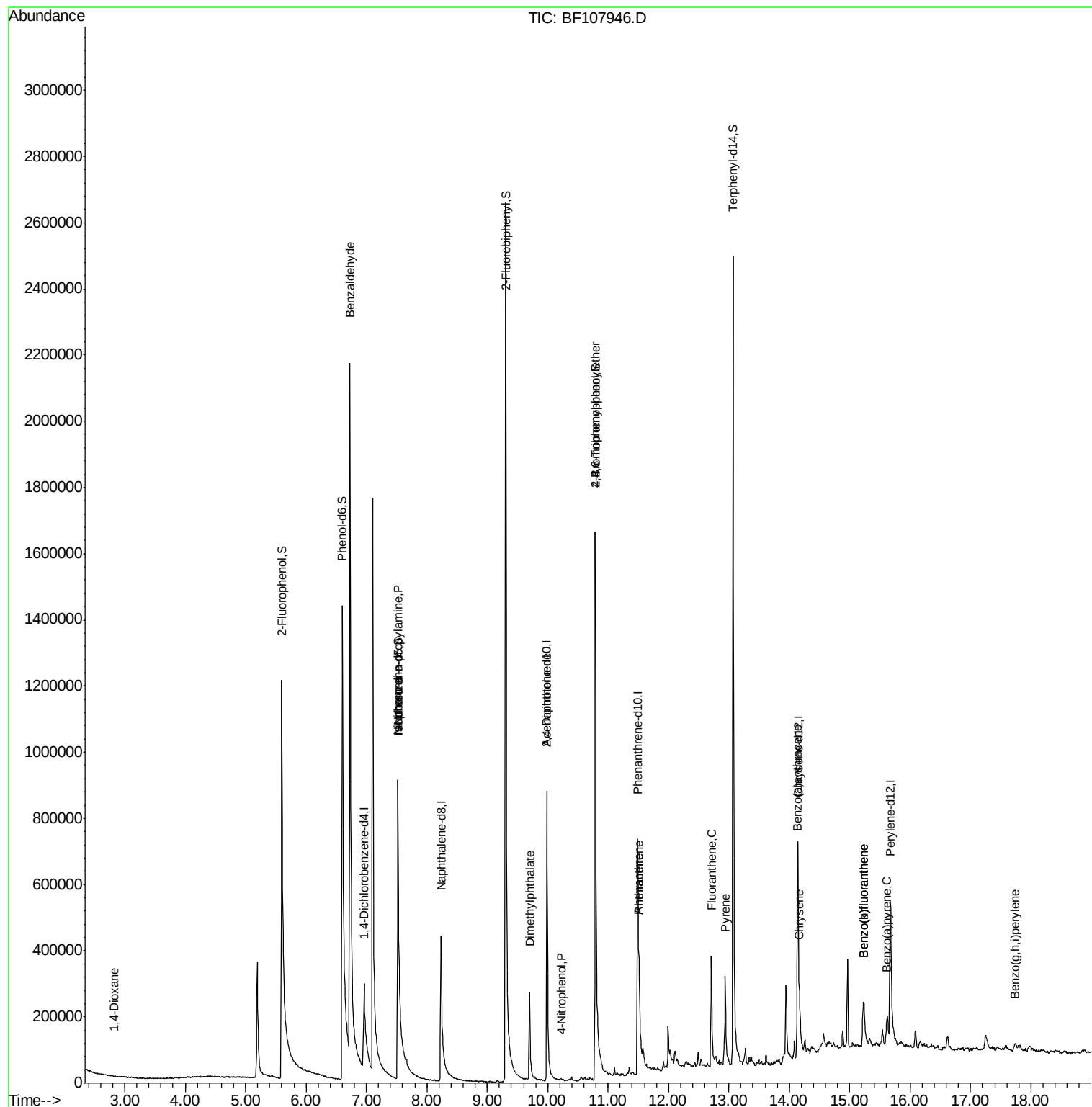
						Qvalue
2) 1,4-Dioxane	2.82	88	578	5.949	ng	# 20
9) Benzaldehyde	6.72	77	20549	3.703	ng	82
19) n-Nitroso-di-n-propylamine	7.52	70	86051	14.750	ng	# 77
25) Isophorone	7.52	82	788916	52.964	ng	# 64
49) Dimethylphthalate	9.70	163	178214	10.028	ng	98
55) 4-Nitrophenol	10.23	139	826	9.631	ng	# 9
56) 2,4-Dinitrotoluene	9.99	165	29675	5.846	ng	# 22
66) 4-Bromophenyl-phenylether	10.79	248	20621	3.835	ng	# 1
70) Phenanthrene	11.51	178	144069	6.578	ng	98
71) Anthracene	11.51	178	144069	5.703	ng	99
74) Fluoranthene	12.71	202	239503	9.308	ng	96
77) Pvrene	12.94	202	171228	7.448	ng	95
80) Benzo(a)anthracene	14.13	228	80968	4.477	ng	97
82) Chrysene	14.17	228	74511	3.820	ng	97
87) Benzo(b)fluoranthene	15.22	252	113350	6.609	ng	# 92
88) Benzo(k)fluoranthene	15.22	252	113350	5.383	ng	95
89) Benzo(a)pvrene	15.61	252	64435	3.639	ng	98
91) Benzo(g,h,i)perylene	17.75	276	32089	2.147	ng	# 91

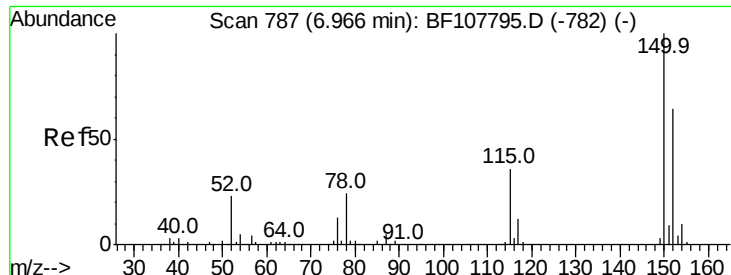
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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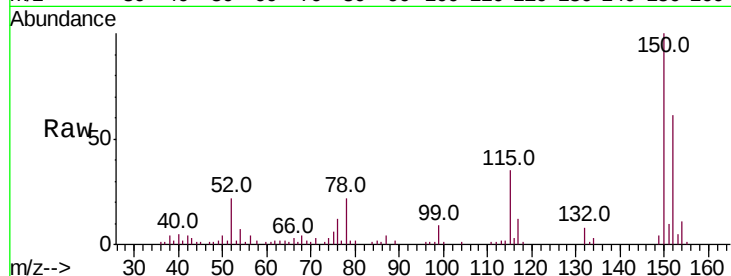


#1

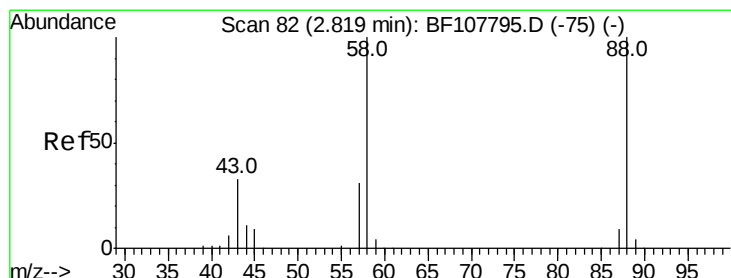
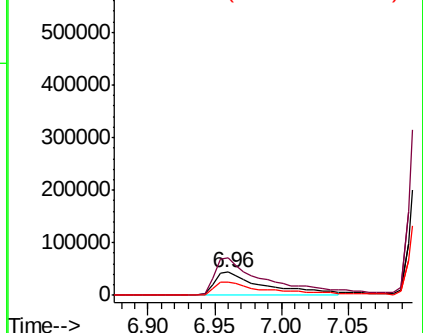
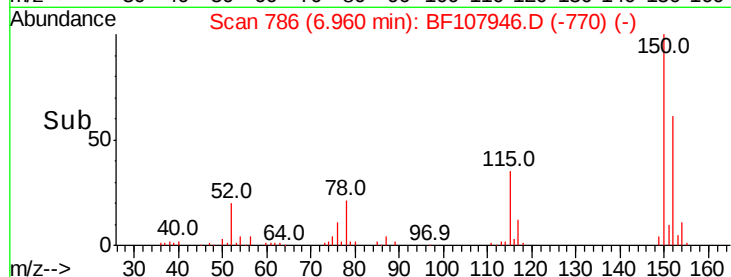
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 118594
Ion Ratio Lower Upper
152 100
150 163.7 124.6 186.8
115 57.5 50.1 75.1



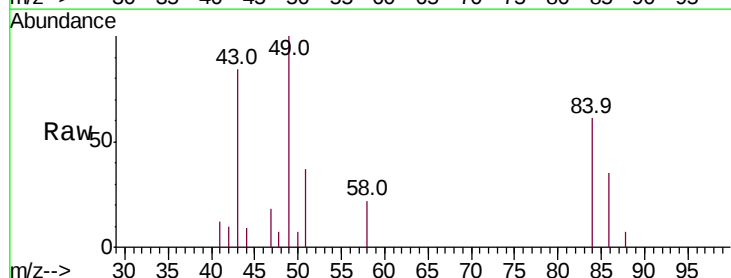
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



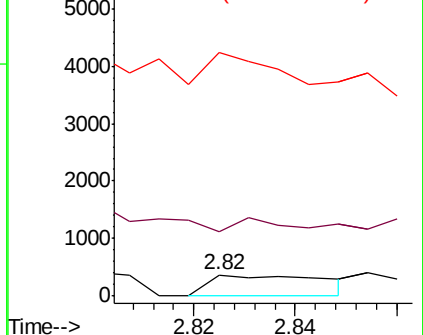
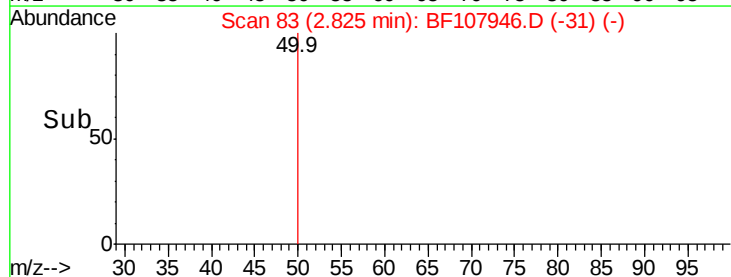
#2

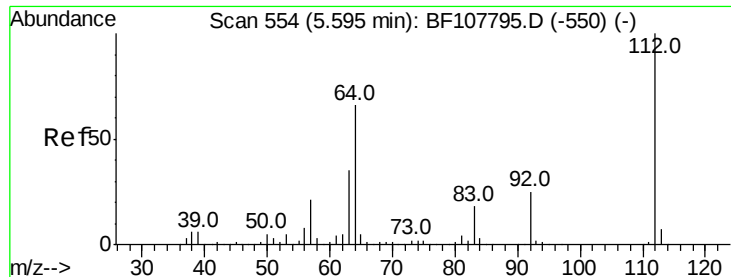
1,4-Dioxane
Concen: 5.949 ng
RT: 2.82 min Scan# 83
Delta R.T. 0.01 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Tgt Ion: 88 Resp: 578
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: 130.878 ng

RT: 5.60 min Scan# 554

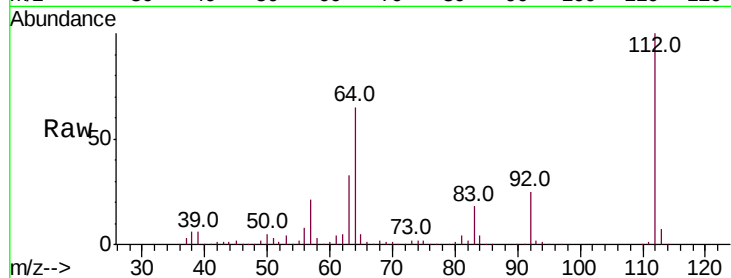
Delta R.T. 0.00 min

Lab File: BF107946.D

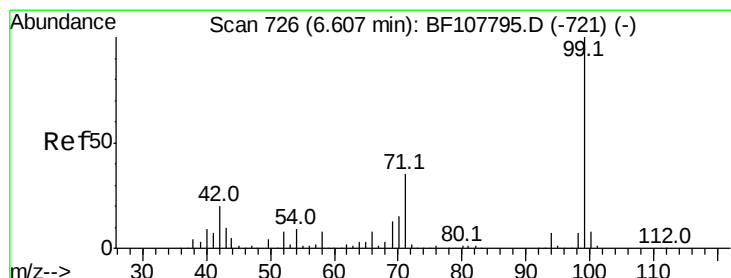
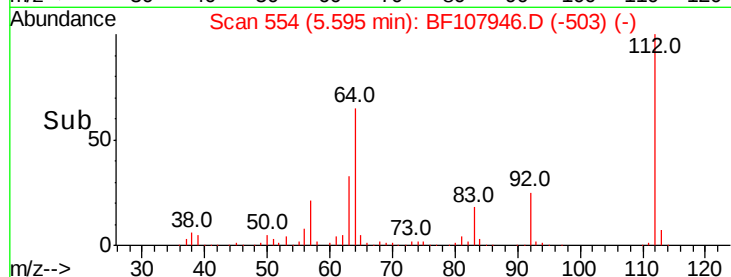
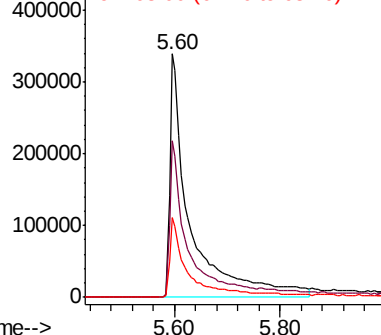
Acq: 3 Aug 2018 19:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	112	Resp:	913261
Ion	Ratio	Lower	Upper
112	100		
64	64.5	47.9	71.9
63	32.8	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



#7

Phenol-d6

Concen: 133.602 ng

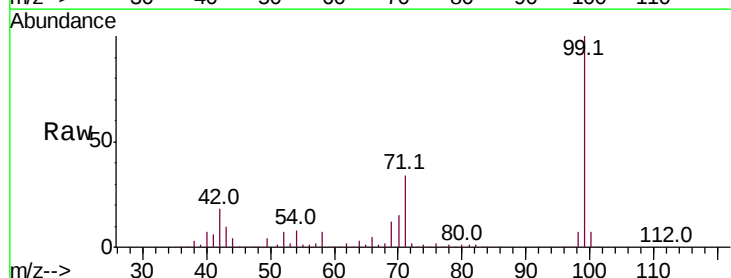
RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

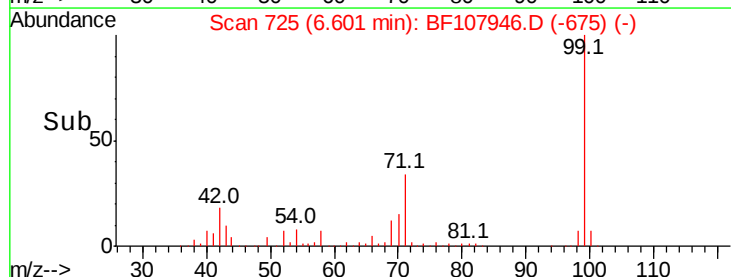
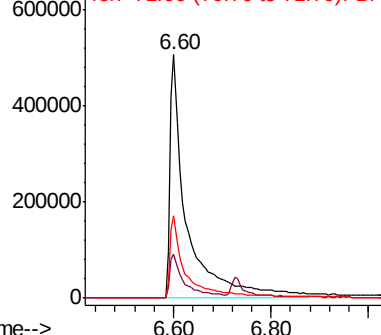
Lab File: BF107946.D

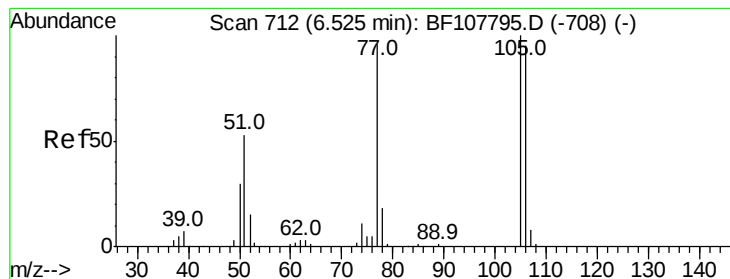
Acq: 3 Aug 2018 19:06

Tgt Ion:	99	Resp:	1228683
Ion	Ratio	Lower	Upper
99	100		
42	18.0	14.5	21.7
71	33.9	25.4	38.0



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





#9

Benzaldehyde

Concen: 3.703 ng

RT: 6.72 min Scan# 746

Delta R.T. 0.20 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampleId :

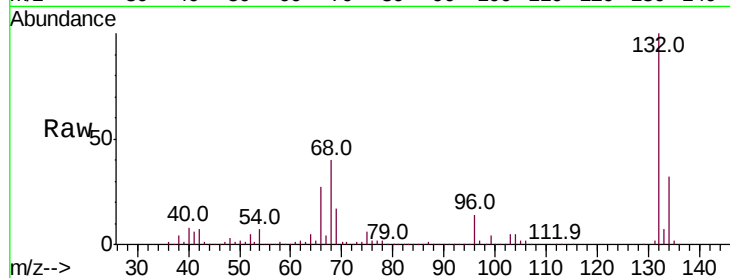
Tot Ion: 77 Resp: 20549

Ion Ratio Lower Upper

77 100

105 82.8 81.1 121.1

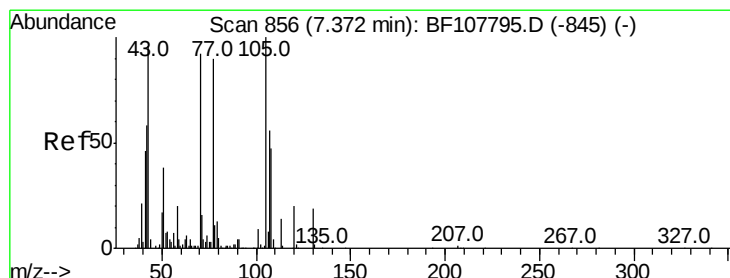
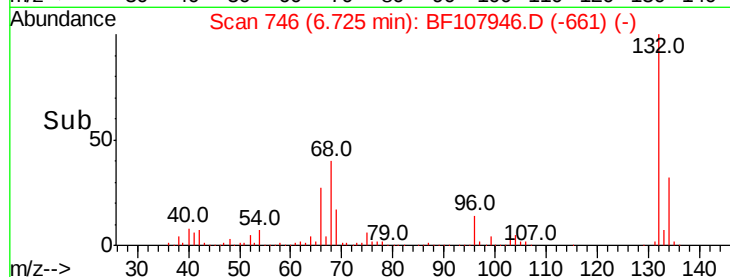
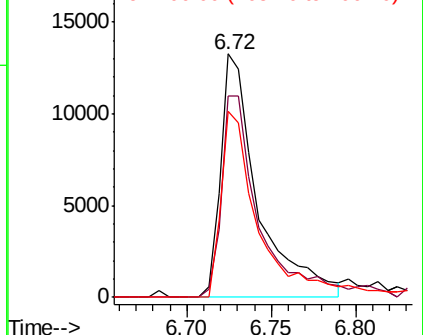
106 76.5 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 14.750 ng

RT: 7.52 min Scan# 881

Delta R.T. 0.15 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Tgt Ion: 70 Resp: 86051

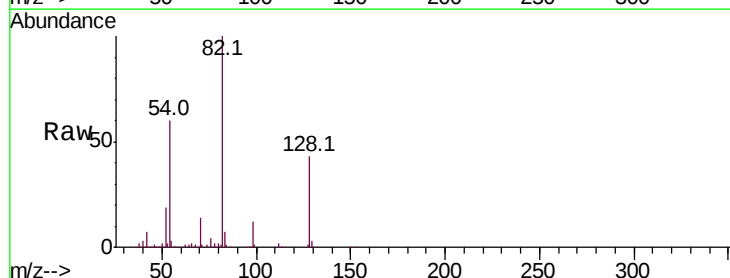
Ion Ratio Lower Upper

70 100

42 47.5 47.5 71.3#

101 0.0 7.4 11.2#

130 1.8 16.6 25.0#

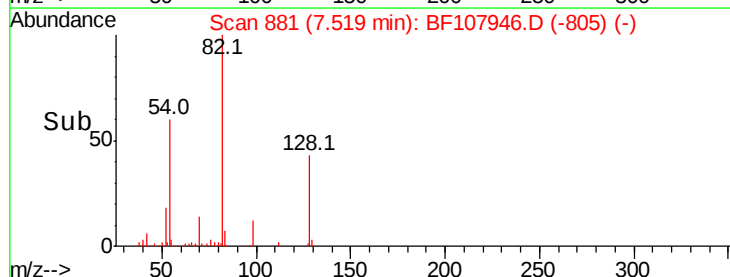
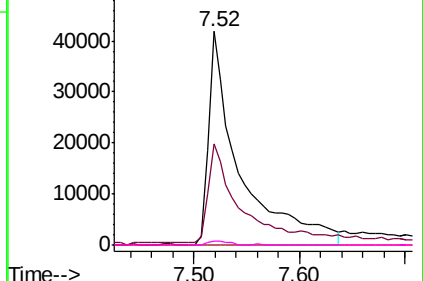


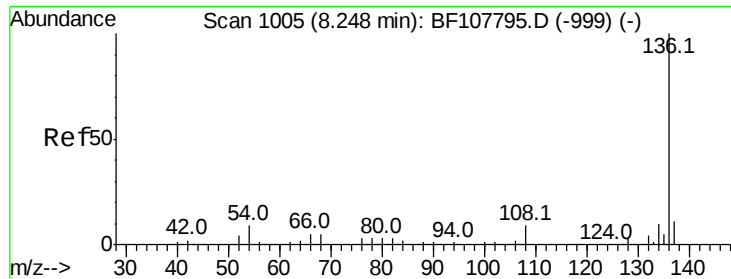
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

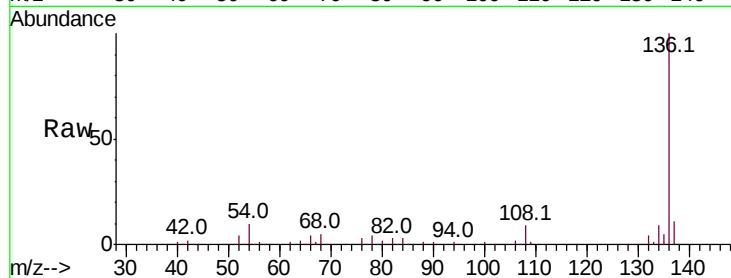




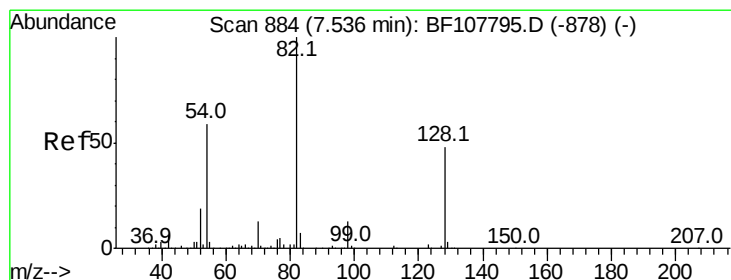
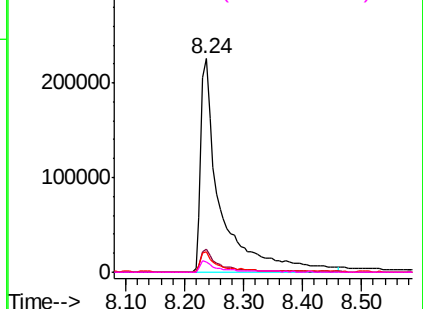
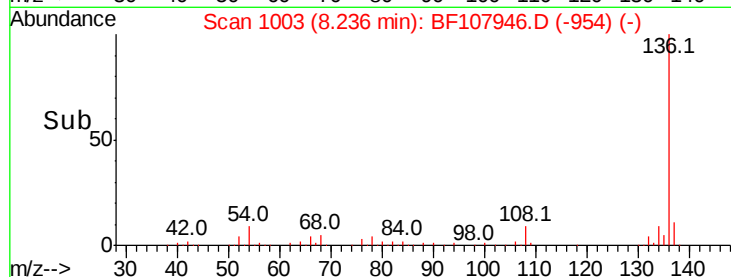
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1003
Delta R.T. -0.01 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	522769
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	9.6	6.6	9.8
68	5.0	5.0	7.4

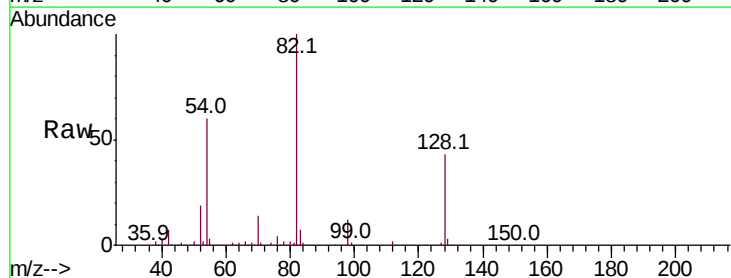


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

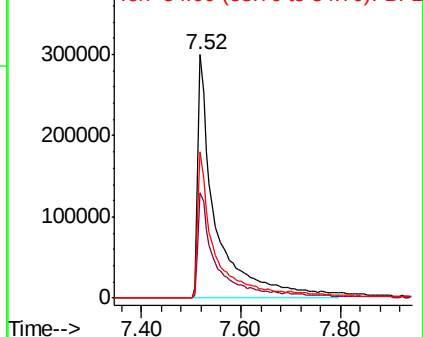
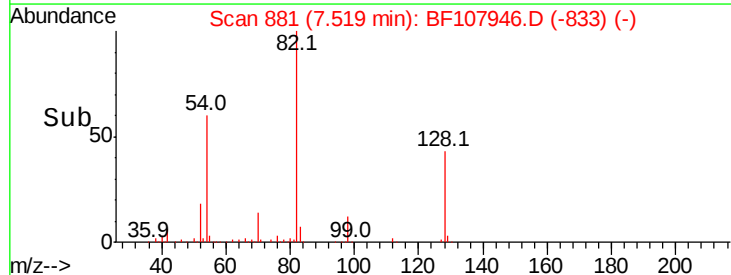


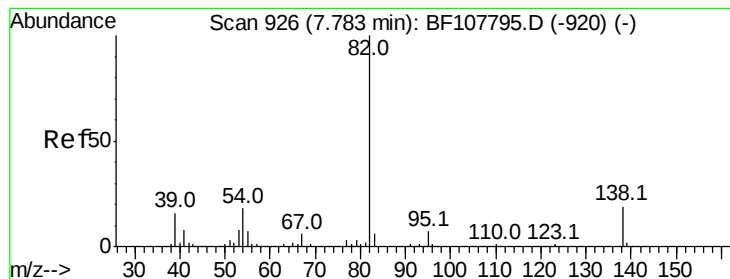
#23
Nitrobenzene-d5
Concen: 83.562 ng
RT: 7.52 min Scan# 881
Delta R.T. -0.02 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Tgt Ion:	82	Resp:	758258
Ion	Ratio	Lower	Upper
82	100		
128	43.3	36.1	54.1
54	60.3	41.4	62.2



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





#25

Isophorone

Concen: 52.964 ng

RT: 7.52 min Scan# 881

Delta R.T. -0.26 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampleId :

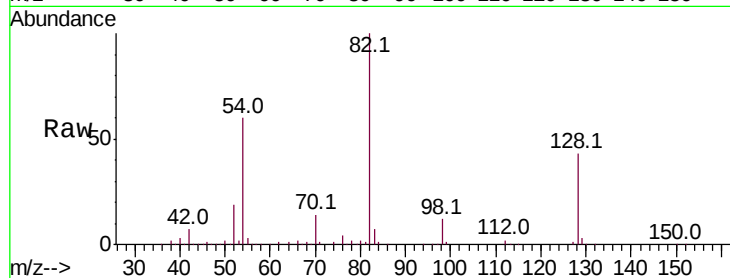
Tot Ion: 82 Resp: 788916

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

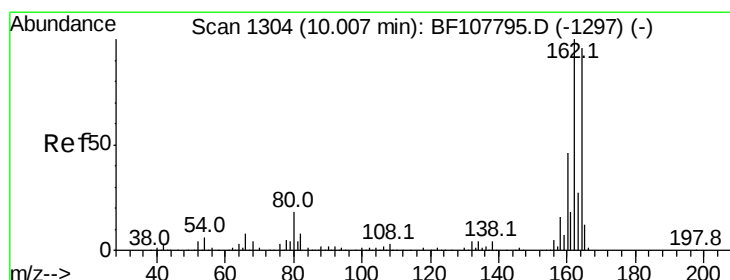
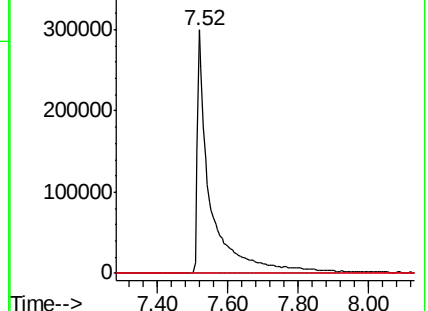
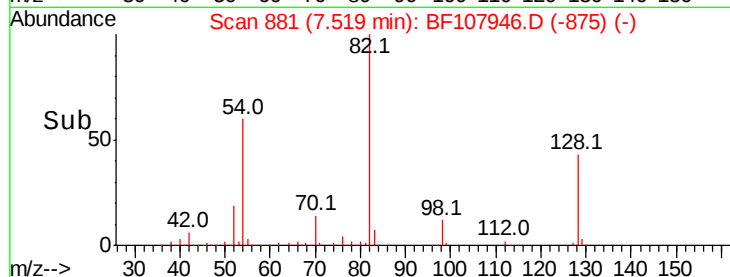
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.99 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

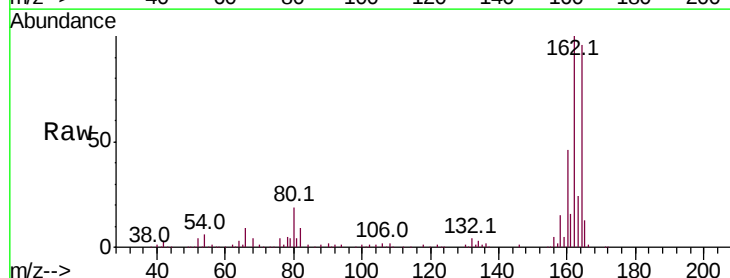
Tgt Ion:164 Resp: 236634

Ion Ratio Lower Upper

164 100

162 104.5 86.1 129.1

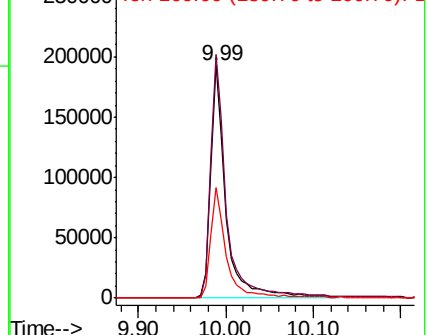
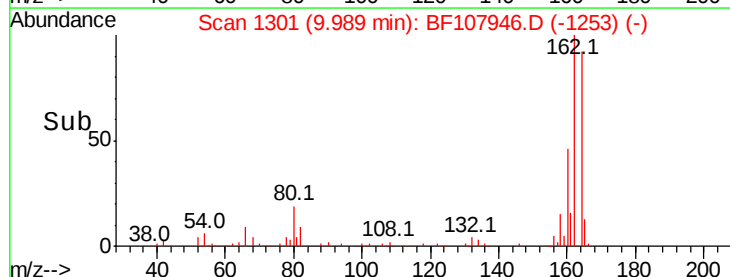
160 47.6 38.3 57.5

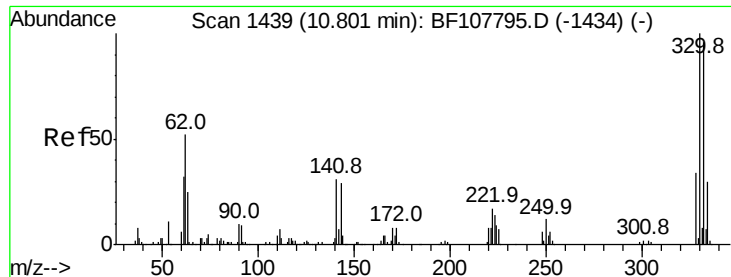


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

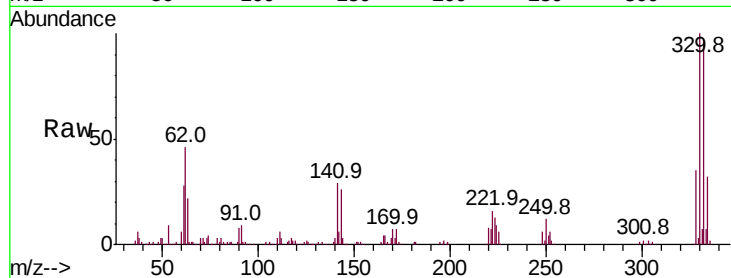




#41
 2,4,6-Tribromophenol
 Concen: 110.669 ng
 RT: 10.79 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF107946.D
 Acq: 3 Aug 2018 19:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.0	115.6
141	29.4	29.9	44.9#

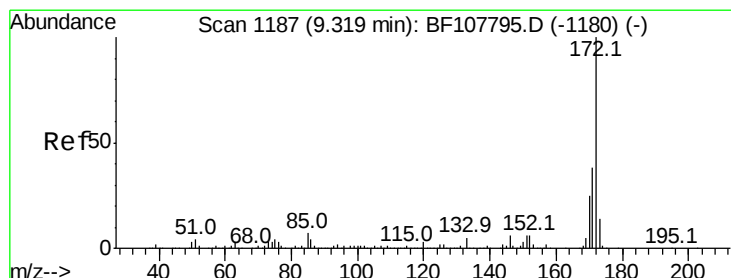
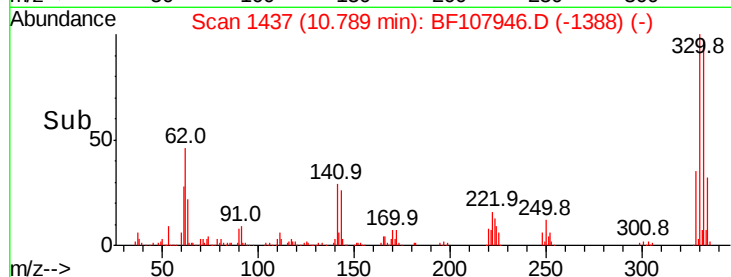
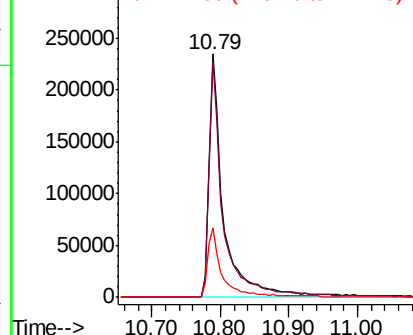


Abundance

Ion 329.80 (329.50 to 330.50): E

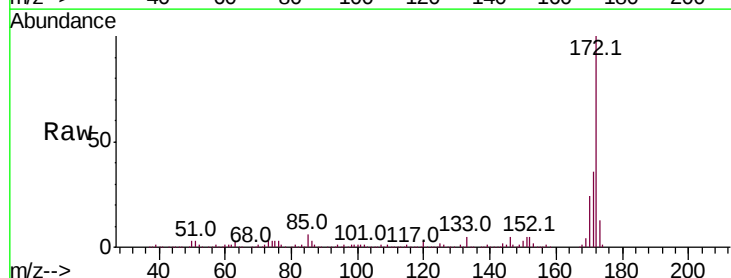
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 83.213 ng
 RT: 9.31 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF107946.D
 Acq: 3 Aug 2018 19:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.7	44.5
170	24.2	19.6	29.4

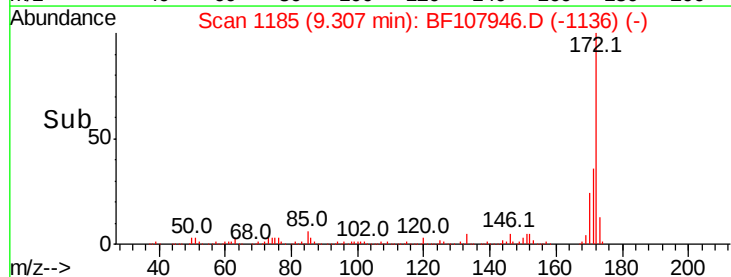
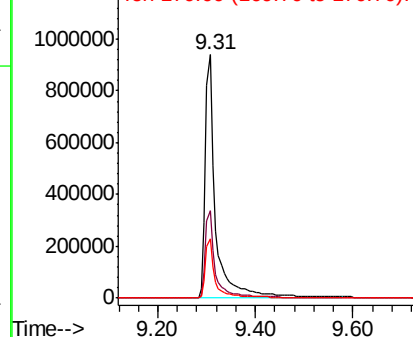


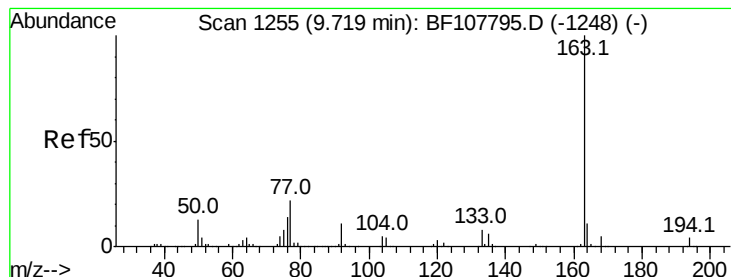
Abundance

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





#49

Dimethylphthalate

Concen: 10.028 ng

RT: 9.70 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampleId :

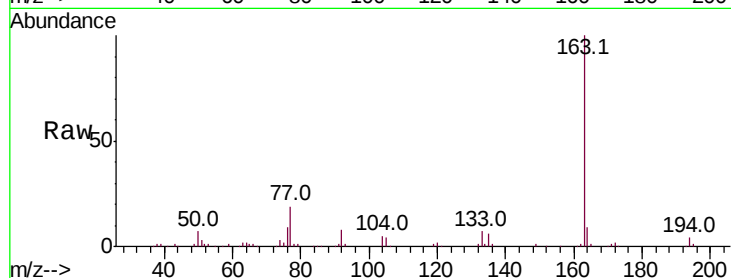
Tot Ion:163 Resp: 178214

Ion Ratio Lower Upper

163 100

194 3.8 2.7 4.1

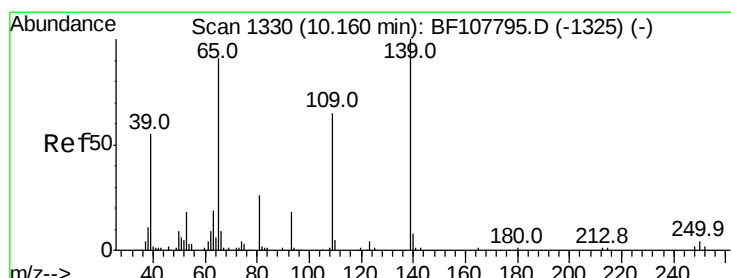
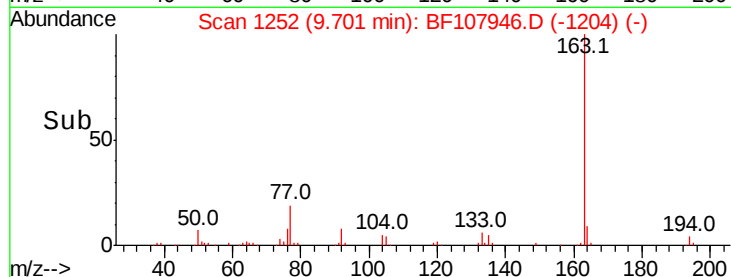
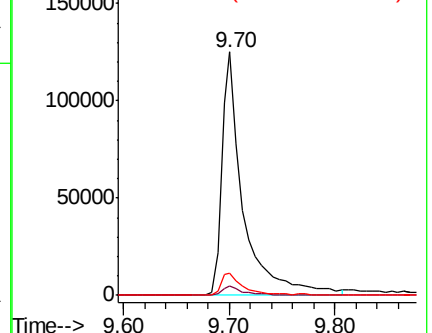
164 9.3 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#55

4-Nitrophenol

Concen: 9.631 ng

RT: 10.23 min Scan# 1342

Delta R.T. 0.07 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

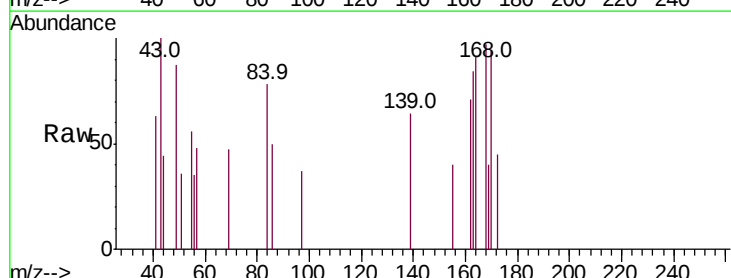
Tgt Ion:139 Resp: 826

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

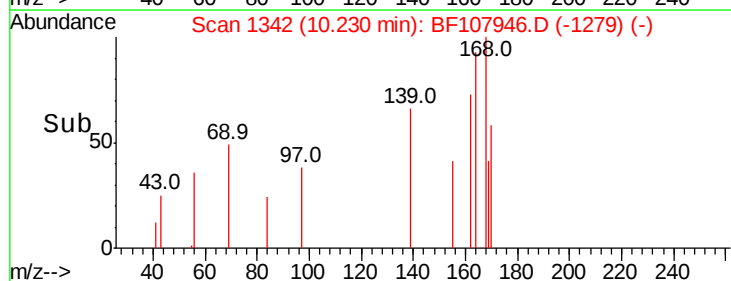
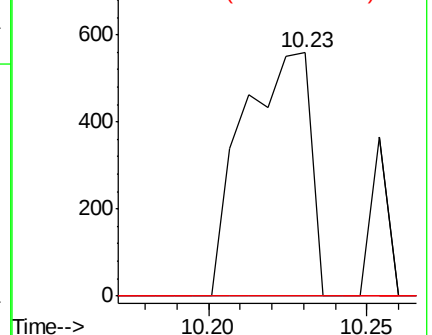
65 0.0 72.6 112.6#

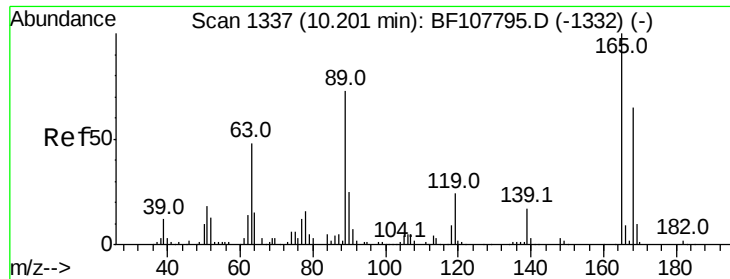


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

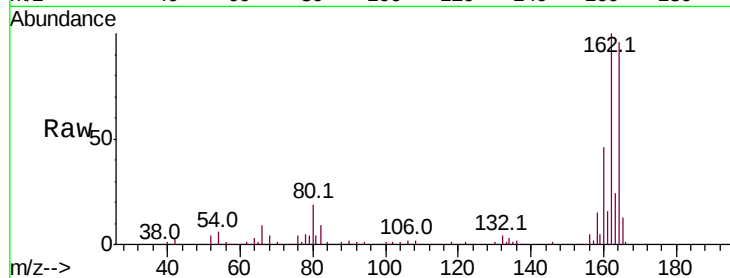




#56
 2,4-Dinitrotoluene
 Concen: 5.846 ng
 RT: 9.99 min Scan# 1301
 Delta R.T. -0.21 min
 Lab File: BF107946.D
 Acq: 3 Aug 2018 19:06

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	165	Resp:	29675
Ion	Ratio	Lower	Upper
165	100		
63	1.3	36.4	54.6#
89	0.0	57.8	86.6#
182	0.0	1.6	2.4#

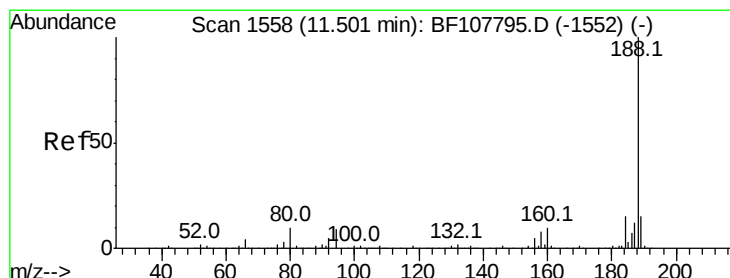
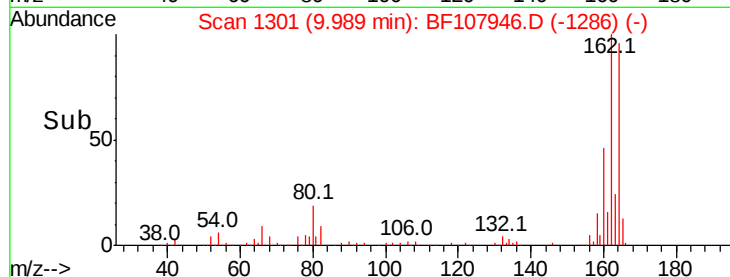
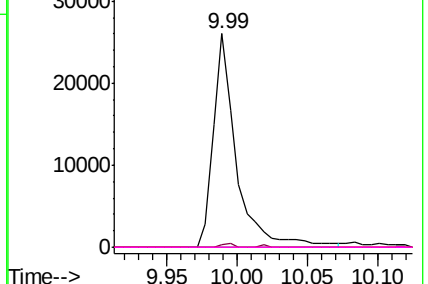


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

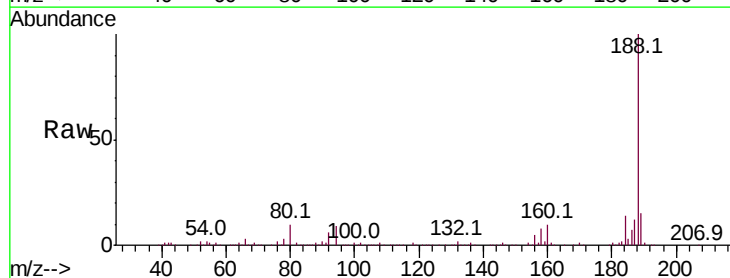
Ion 89.00 (88.70 to 89.70): BF1

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: BF107946.D
 Acq: 3 Aug 2018 19:06

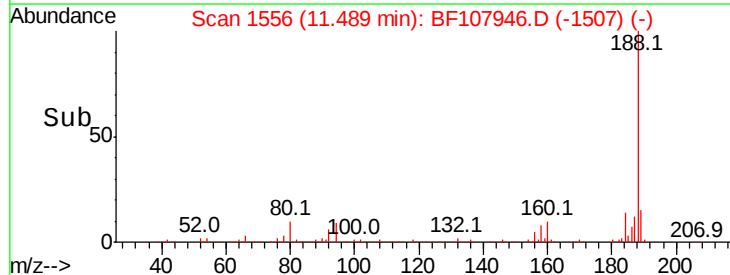
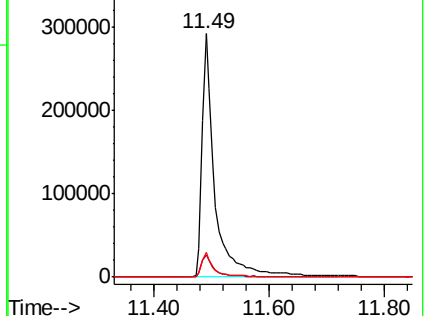
Tgt Ion:	188	Resp:	461273
Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.5	12.7
80	10.0	9.2	13.8

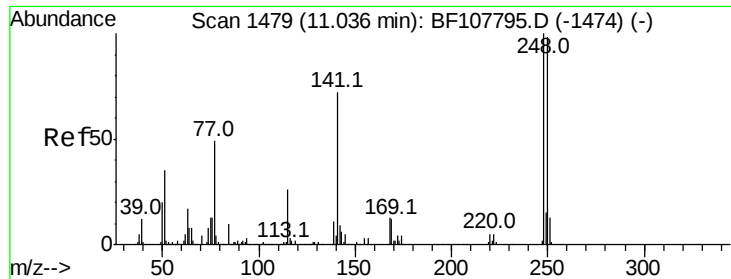


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

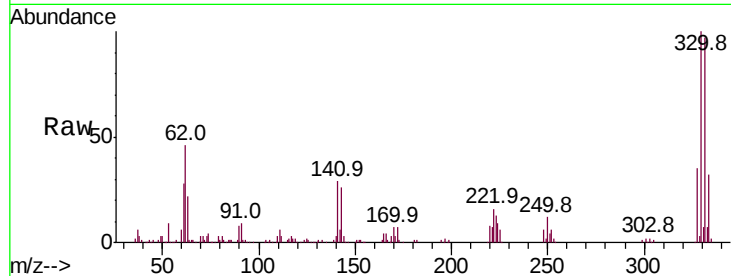




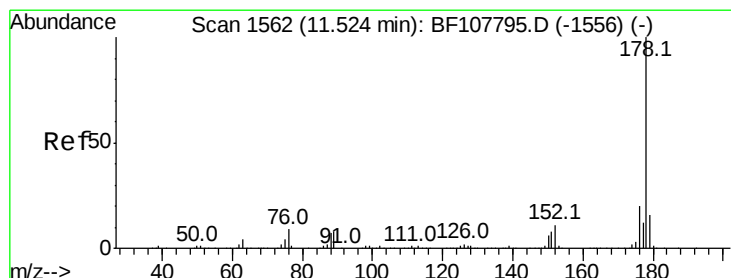
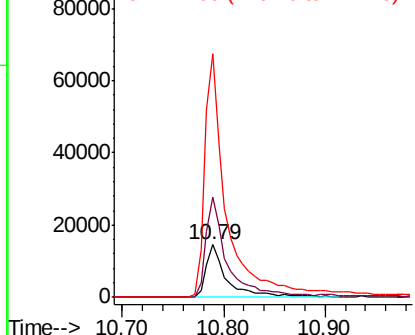
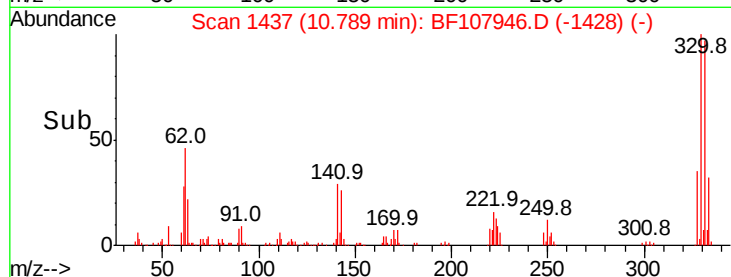
#66
4-Bromophenyl-phenylether
Concen: 3.835 ng
RT: 10.79 min Scan# 1437
Delta R.T. -0.25 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 20621
Ion Ratio Lower Upper
248 100
250 190.1 76.9 115.3#
141 463.1 74.4 111.6#

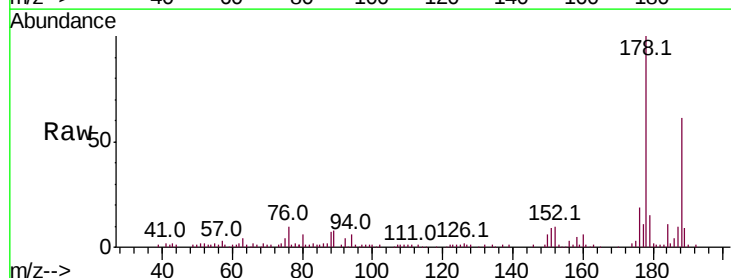


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

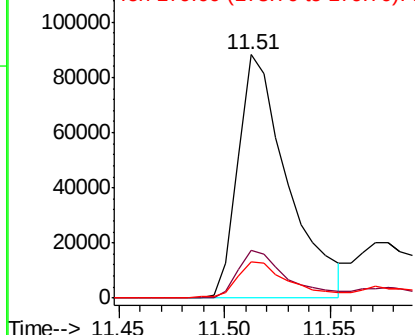
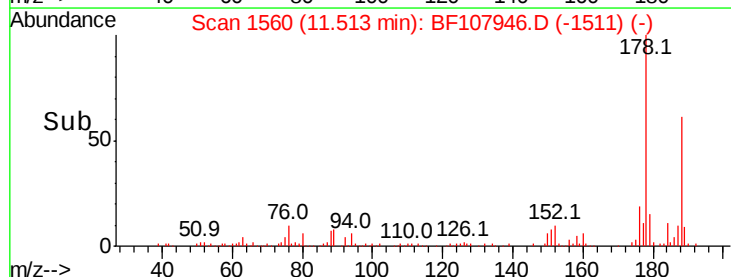


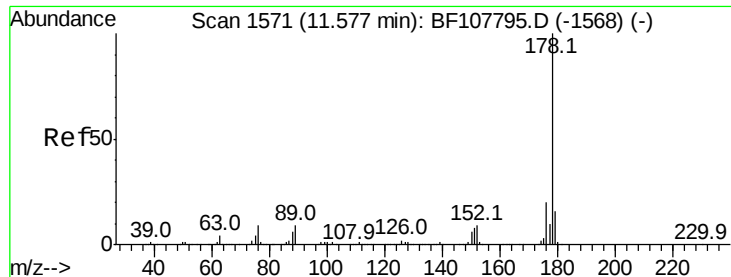
#70
Phenanthrene
Concen: 6.578 ng
RT: 11.51 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Tgt Ion:178 Resp: 144069
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 14.6 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

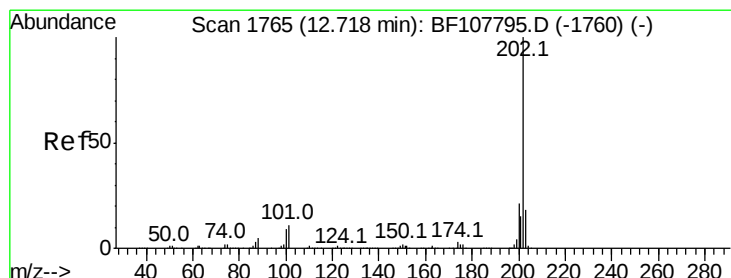
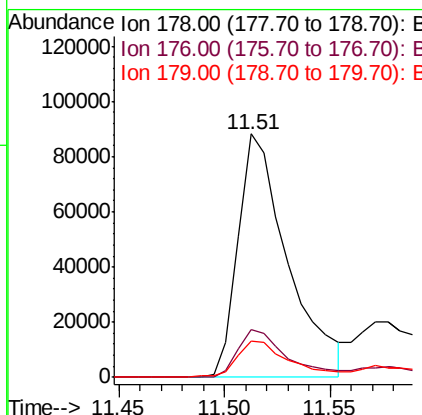
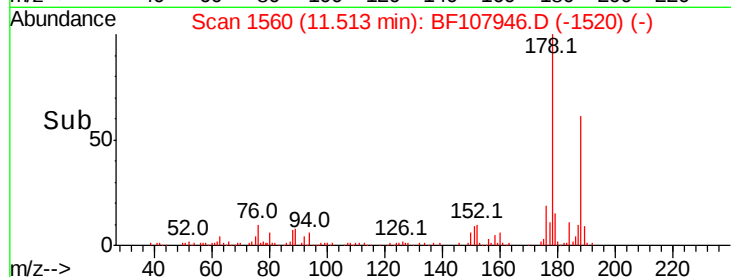
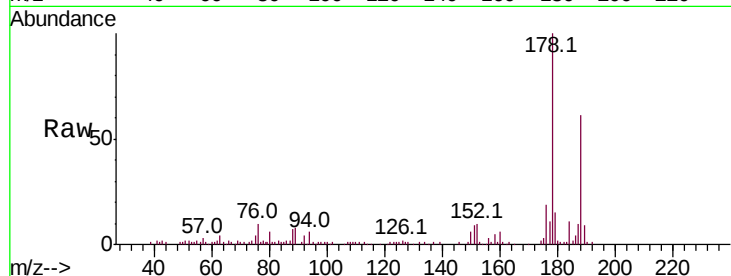




#71
 Anthracene
 Concen: 5.703 ng
 RT: 11.51 min Scan# 1560
 Delta R.T. -0.06 min
 Lab File: BF107946.D
 Acq: 3 Aug 2018 19:06

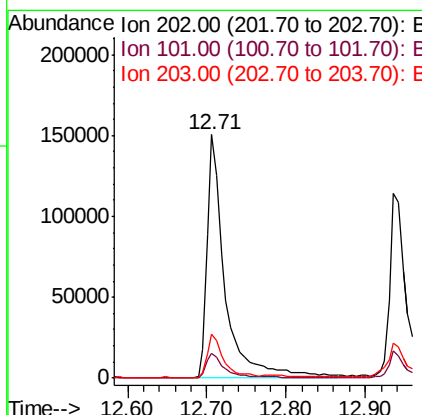
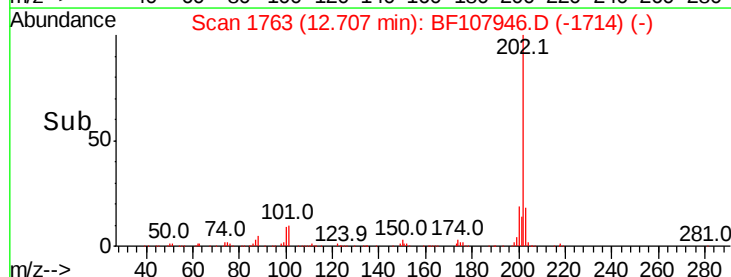
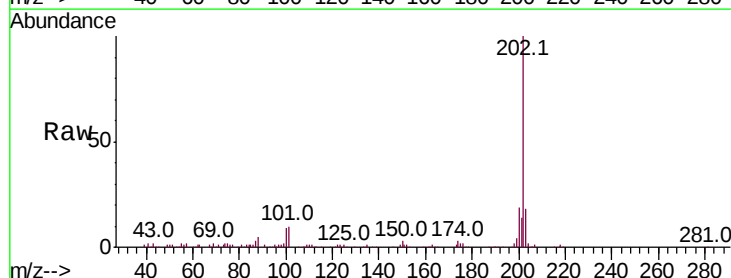
Instrument :
 BNA_F
 ClientSampled :

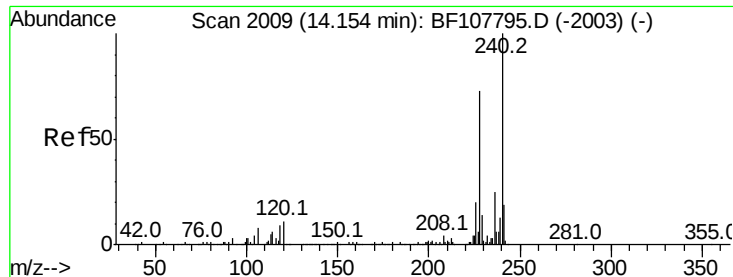
Tot Ion:178 Resp: 144069
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.4 23.2
 179 14.6 12.6 19.0



#74
 Fluoranthene
 Concen: 9.308 ng
 RT: 12.71 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: BF107946.D
 Acq: 3 Aug 2018 19:06

Tgt Ion:202 Resp: 239503
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 34.1
 203 17.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampled :

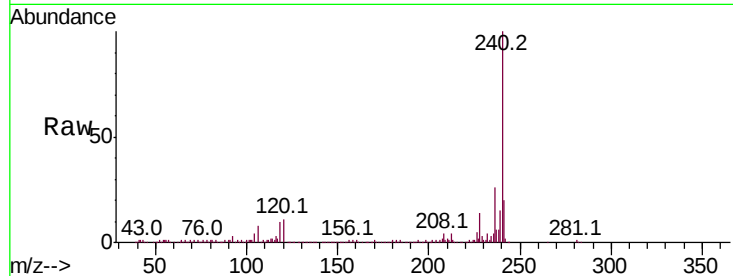
Tot Ion:240 Resp: 319260

Ion Ratio Lower Upper

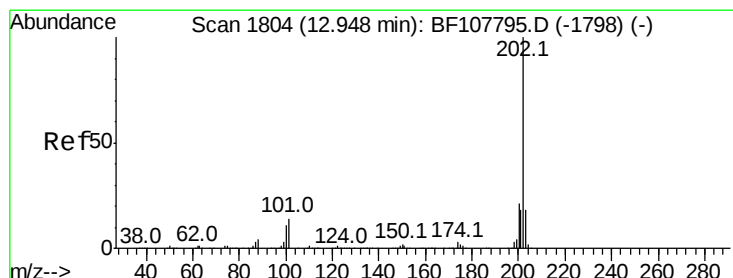
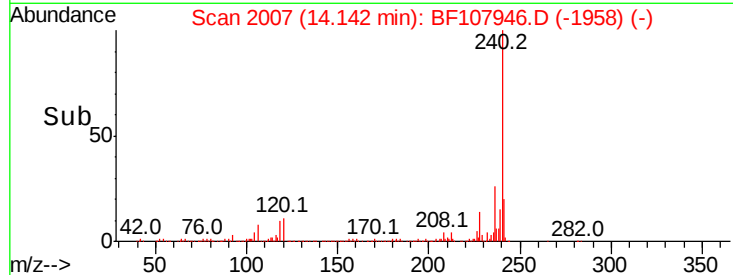
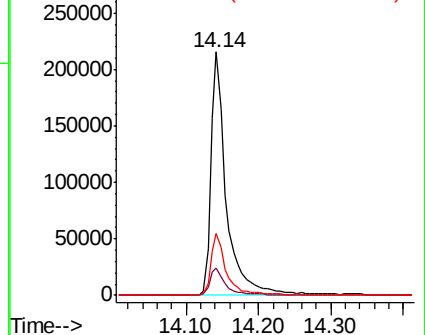
240 100

120 11.1 9.5 14.3

236 25.5 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: 7.448 ng

RT: 12.94 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

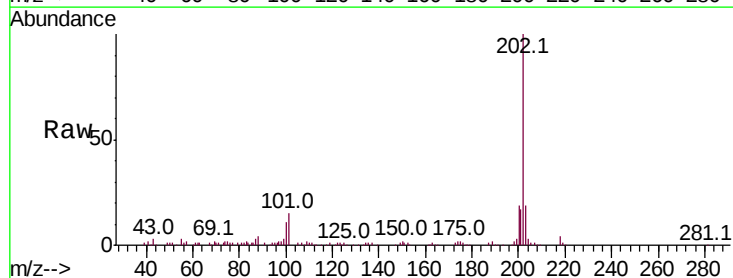
Tgt Ion:202 Resp: 171228

Ion Ratio Lower Upper

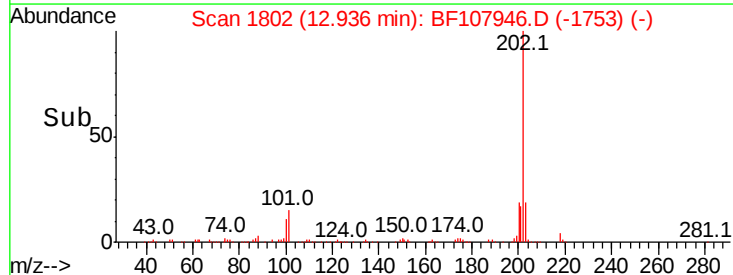
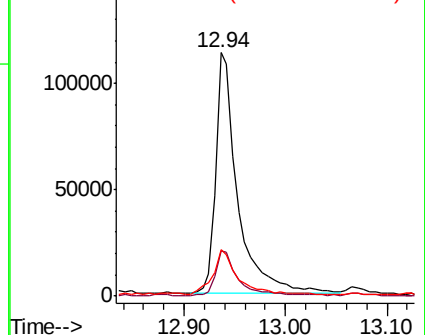
202 100

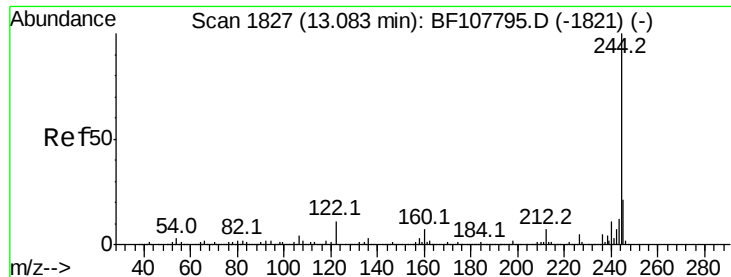
200 18.7 17.4 26.2

203 19.0 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: 76.491 ng

RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampleId :

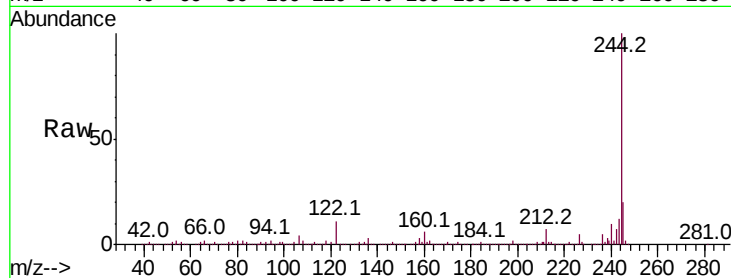
Tot Ion:244 Resp: 1126185

Ion Ratio Lower Upper

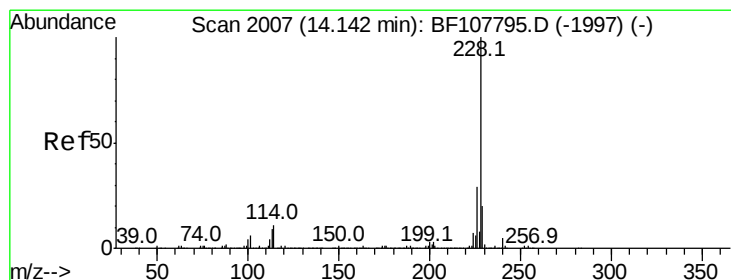
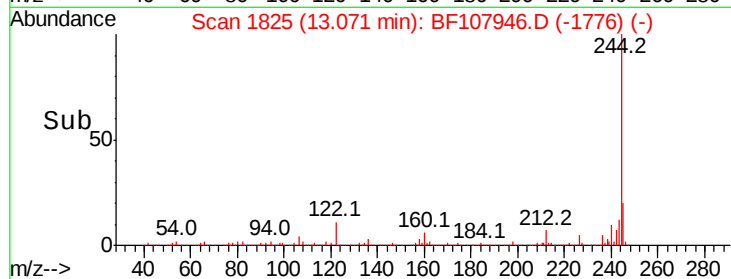
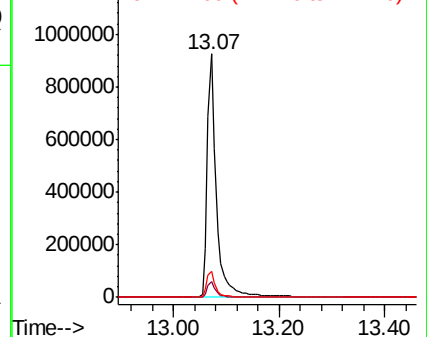
244 100

212 6.6 5.4 8.0

122 10.9 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: 4.477 ng

RT: 14.13 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

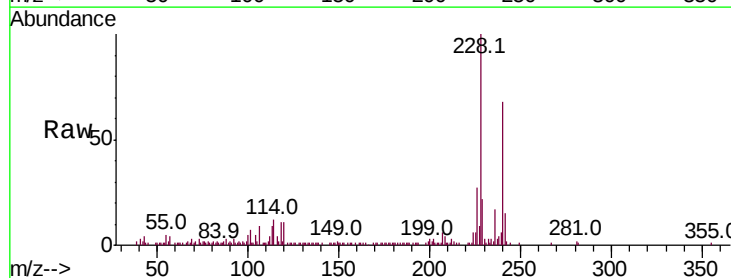
Tgt Ion:228 Resp: 80968

Ion Ratio Lower Upper

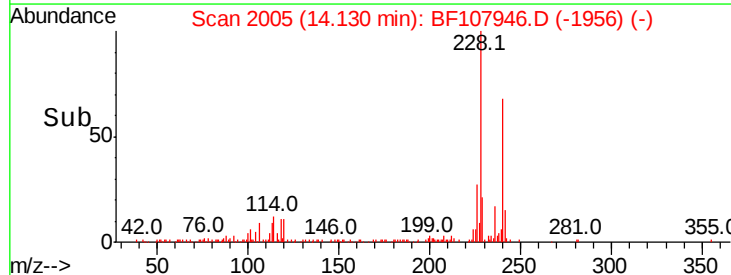
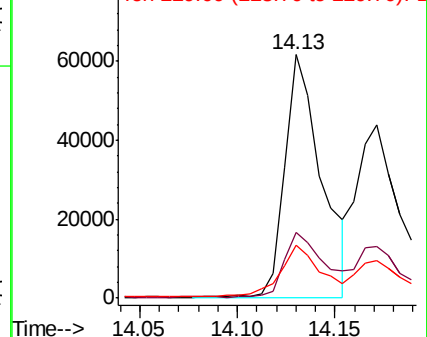
228 100

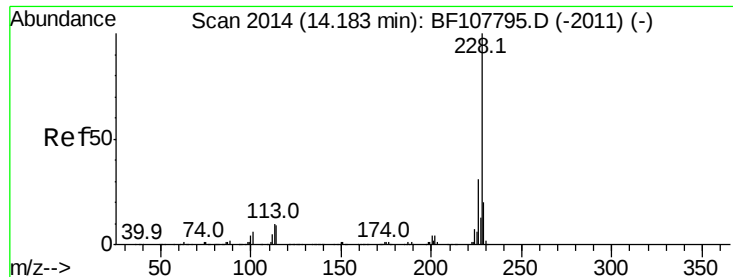
226 27.0 22.6 33.8

229 21.6 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: 3.820 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampleId :

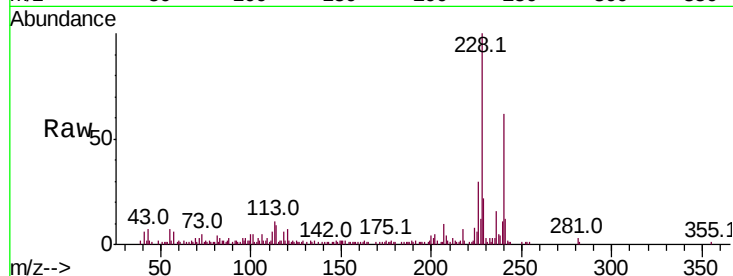
Tot Ion:228 Resp: 74511

Ion Ratio Lower Upper

228 100

226 29.6 25.0 37.6

229 22.0 16.2 24.4

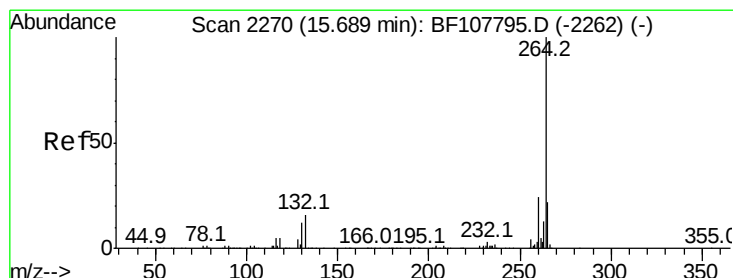
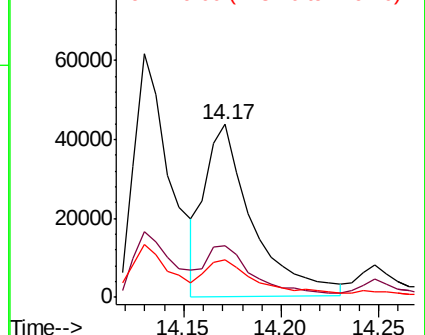
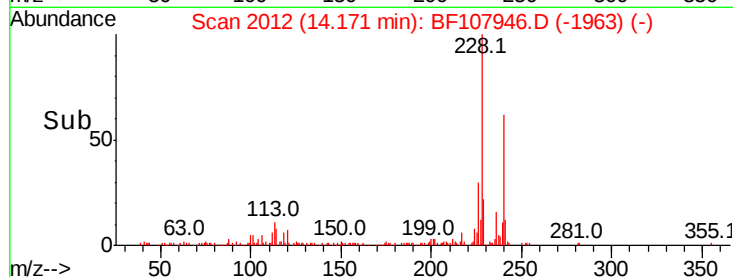


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

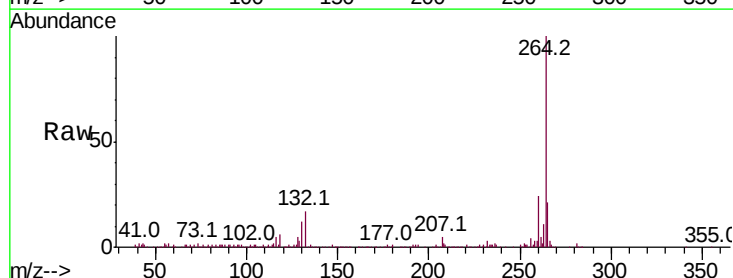
Tgt Ion:264 Resp: 347758

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

265 21.3 17.5 26.3

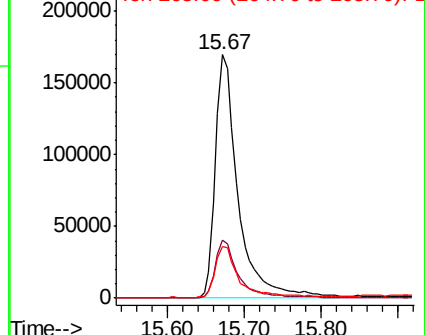
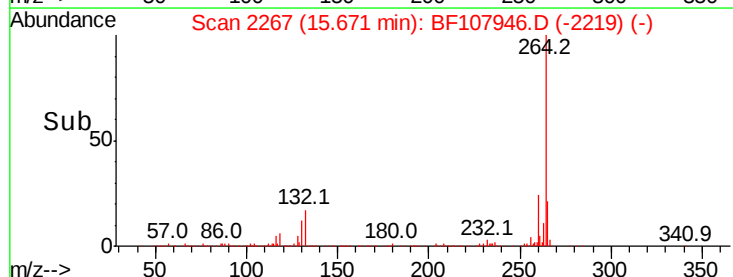


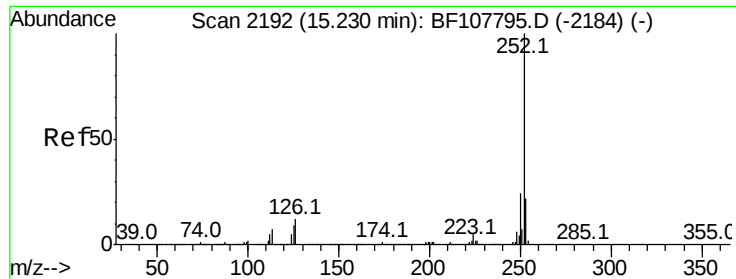
Abundance

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

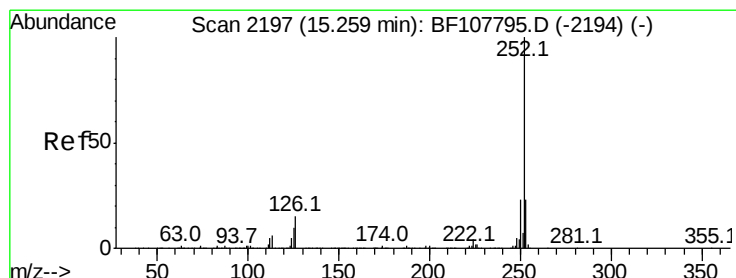
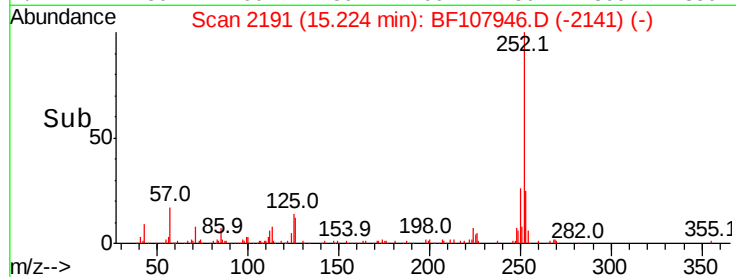
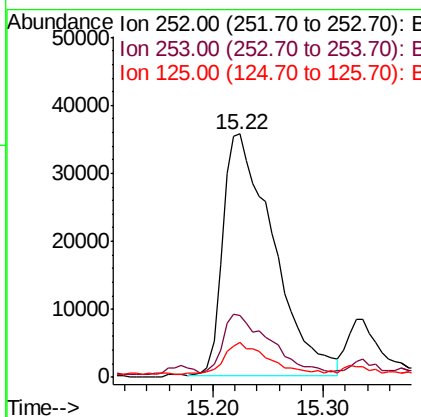
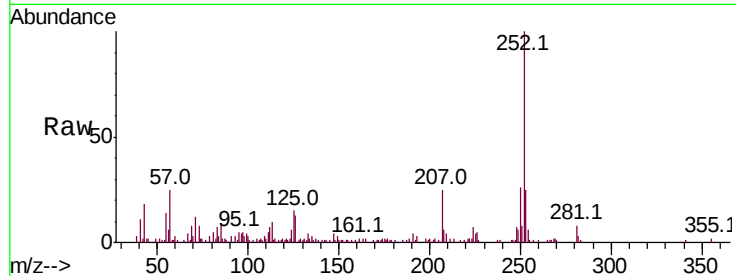




#87
Benzo(b)fluoranthene
Concen: 6.609 ng
RT: 15.22 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

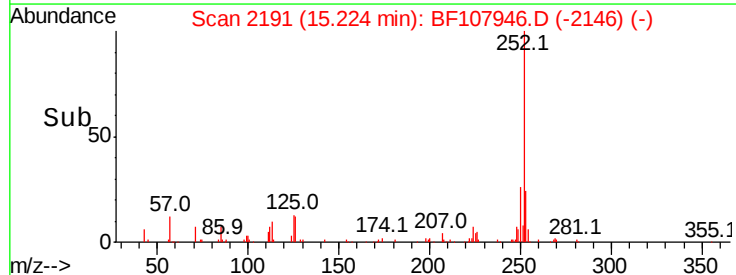
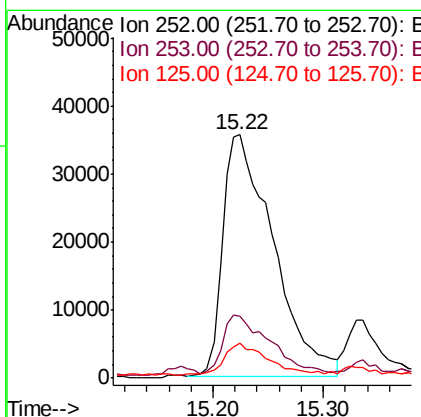
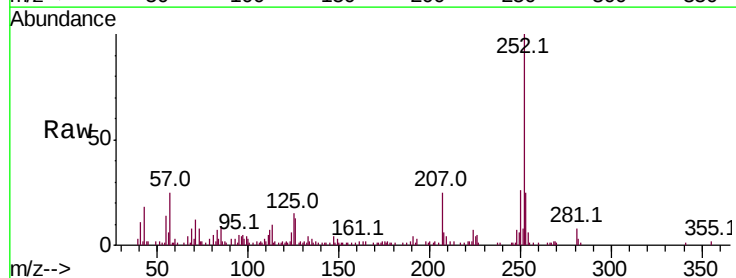
Instrument :
BNA_F
ClientSampleId :

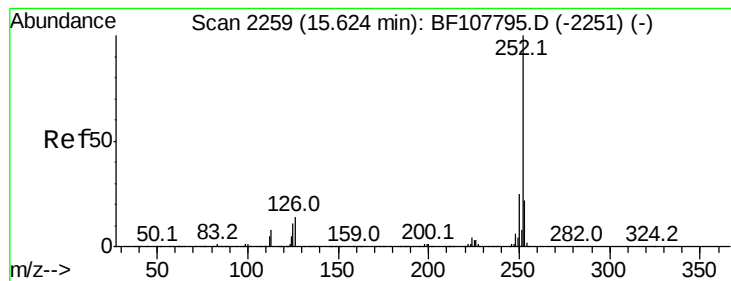
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.0	25.6
125	14.6	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 5.383 ng
RT: 15.22 min Scan# 2191
Delta R.T. -0.04 min
Lab File: BF107946.D
Acq: 3 Aug 2018 19:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.9	26.9
125	14.6	10.2	15.2





#89

Benzo(a)pyrene

Concen: 3.639 ng

RT: 15.61 min Scan# 2257

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

Instrument :

BNA_F

ClientSampleId :

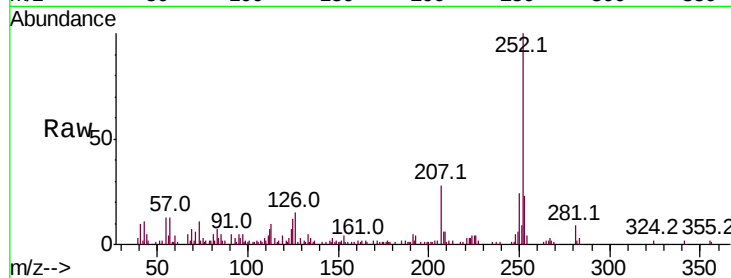
Tot Ion:252 Resp: 64435

Ion Ratio Lower Upper

252 100

253 22.8 17.1 25.7

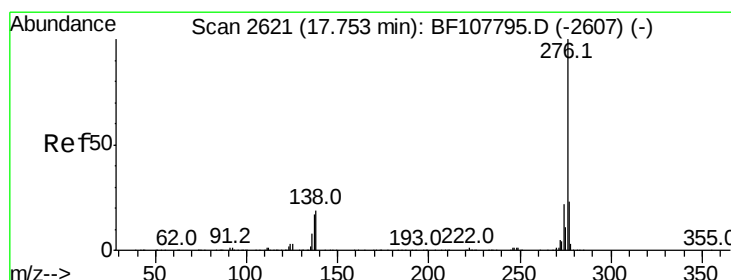
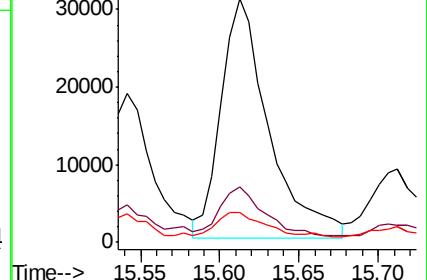
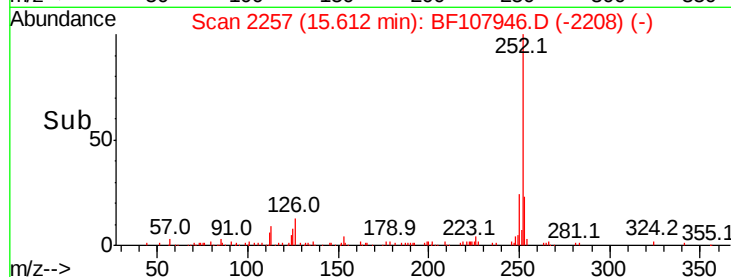
125 12.3 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.147 ng

RT: 17.75 min Scan# 2620

Delta R.T. -0.01 min

Lab File: BF107946.D

Acq: 3 Aug 2018 19:06

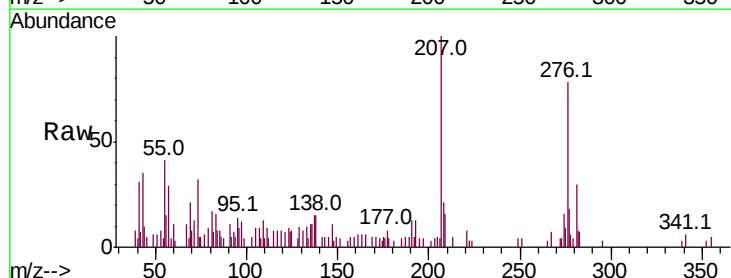
Tgt Ion:276 Resp: 32089

Ion Ratio Lower Upper

276 100

277 23.1 17.9 26.9

138 19.3 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

