

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120117\
 Data File : BF101064.D
 Acq On : 1 Dec 2017 15:44
 Operator : SJ/JU
 Sample : I6289-09DL 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

Quant Time: Dec 01 21:49:50 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 15:52:19 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	43548	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	172502	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	78581	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	138341	20.00	ng	0.00
75) Chrysene-d12	14.02	240	92216	20.00	ng	0.00
86) Perylene-d12	15.49	264	109077	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	5586	2.12	ng	0.00
7) Phenol-d6	6.47	99	8594	2.69	ng	0.00
23) Nitrobenzene-d5	7.40	82	5588	1.93	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	1900	2.01	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	15352	2.67	ng	-0.01
78) Terphenyl-d14	12.95	244	11589	2.75	ng	-0.01

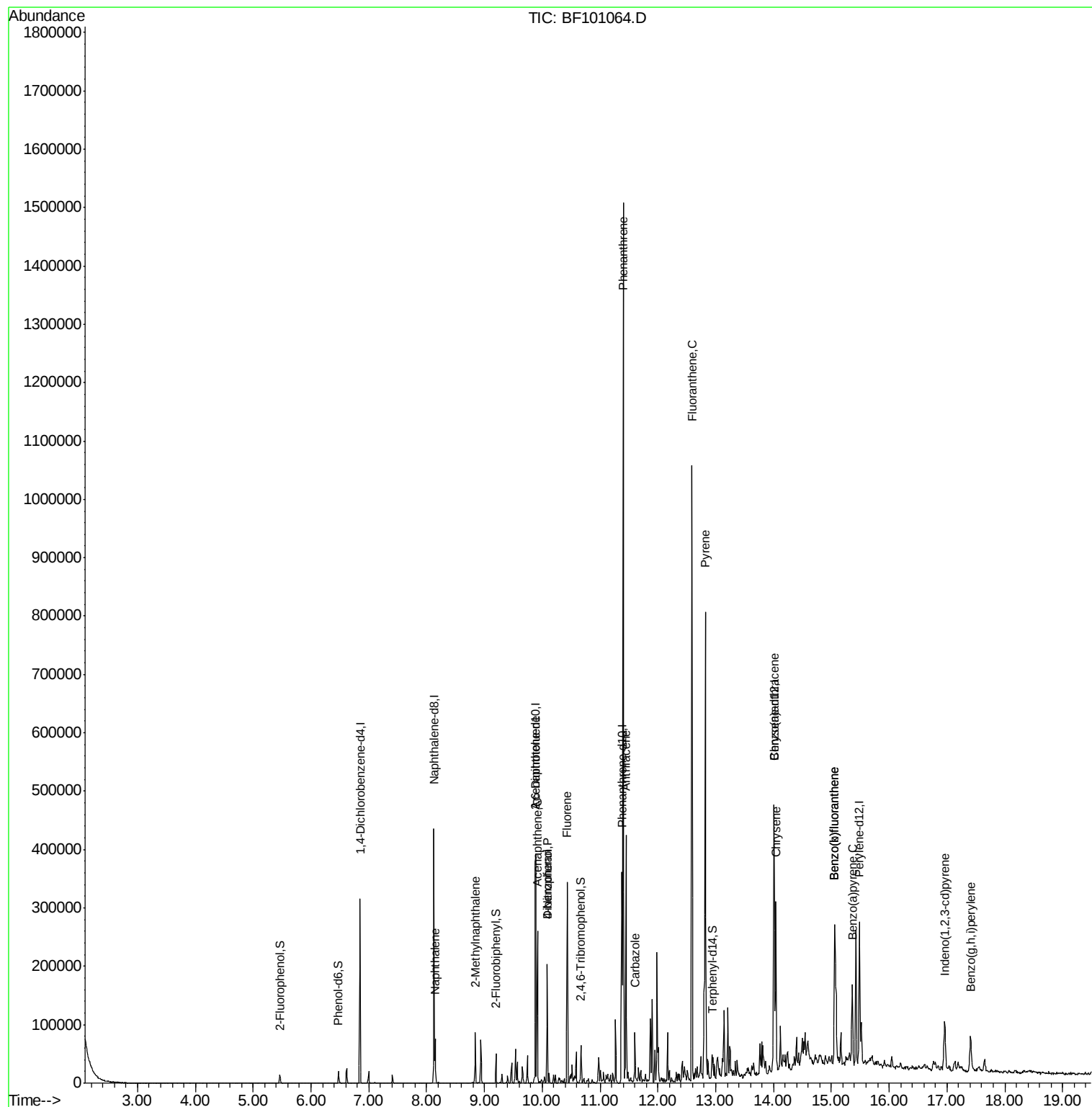
Target Compounds				Qvalue		
31) Naphthalene	8.15	128	31599	3.717	ng	99
37) 2-Methylnaphthalene	8.84	142	22517	3.898	ng	99
50) 2,6-Dinitrotoluene	9.88	165	10813	8.101	ng	# 24
51) Acenaphthene	9.92	154	48081	9.556	ng	96
54) Dibenzofuran	10.09	168	70819	9.767	ng	99
55) 4-Nitrophenol	10.09	139	26081	25.764	ng	# 10
57) Fluorene	10.43	166	98399	16.694	ng	99
70) Phenanthrene	11.40	178	586457	76.979	ng	99
71) Anthracene	11.45	178	158968	20.617	ng	99
72) Carbazole	11.60	167	33562	4.764	ng	# 96
74) Fluoranthene	12.59	202	420333	49.774	ng	95
77) Pvrene	12.82	202	337693	53.070	ng	99
80) Benzo(a)anthracene	14.00	228	138993	23.872	ng	99
82) Chrysene	14.04	228	109581	20.265	ng	96
85) Indeno(1,2,3-cd)pyrene	16.96	276	52287	10.876	ng	# 90
87) Benzo(b)fluoranthene	15.06	252	185724	28.427	ng	97
88) Benzo(k)fluoranthene	15.06	252	185724	28.853	ng	97
89) Benzo(a)pyrene	15.36	252	66163	11.139	ng	97
91) Benzo(a,h,i)perylene	17.40	276	48910	9.911	ng	# 91

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

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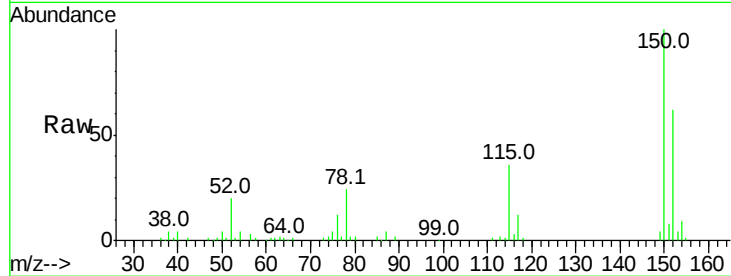


#1

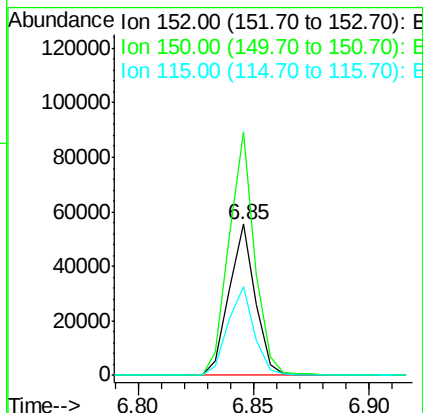
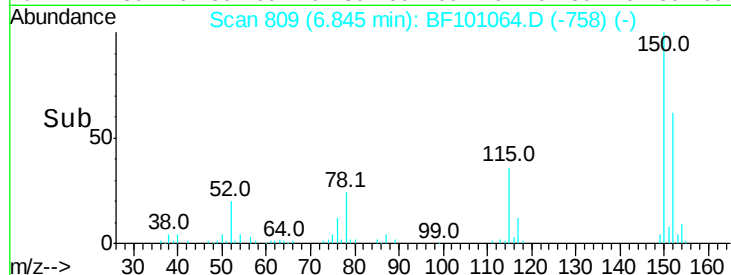
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion:152 Resp: 43548
Ion Ratio Lower Upper
152 100
150 160.9 124.6 186.8
115 58.5 50.1 75.1



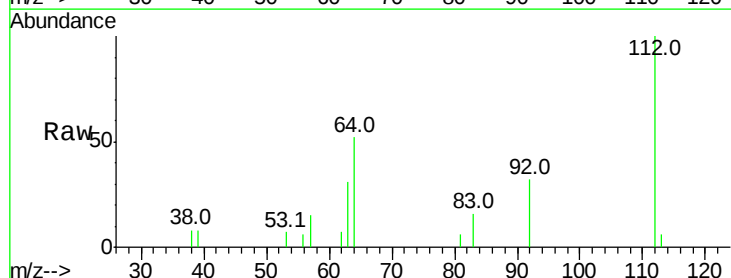
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



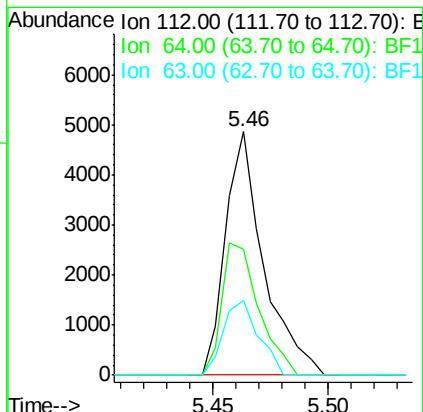
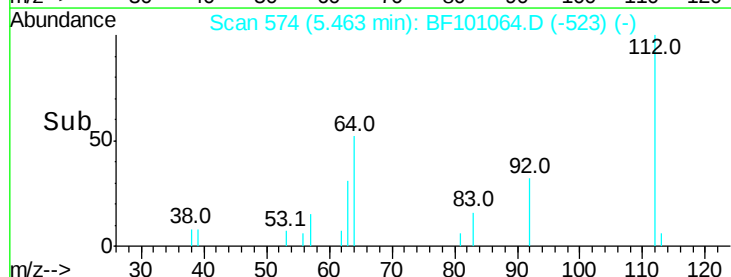
#5

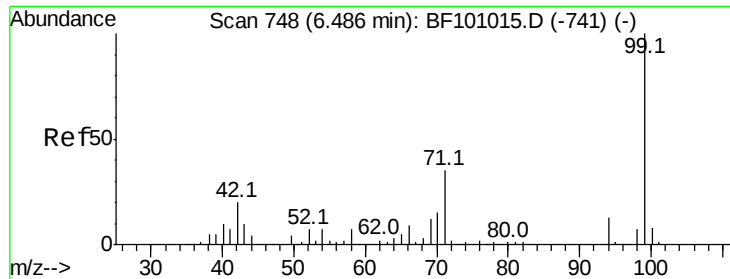
2-Fluorophenol
Concen: 2.120 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion:112 Resp: 5586
Ion Ratio Lower Upper
112 100
64 51.7 47.9 71.9
63 30.6 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: 2.686 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

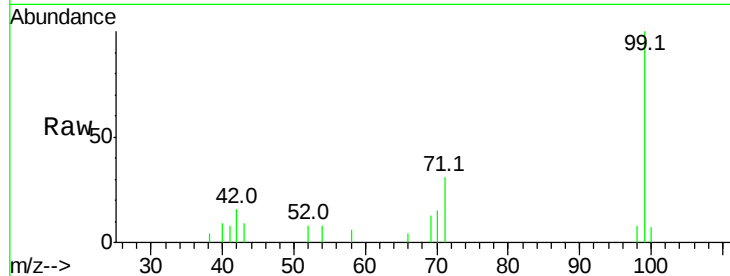
Tot Ion: 99 Resp: 8594

Ion Ratio Lower Upper

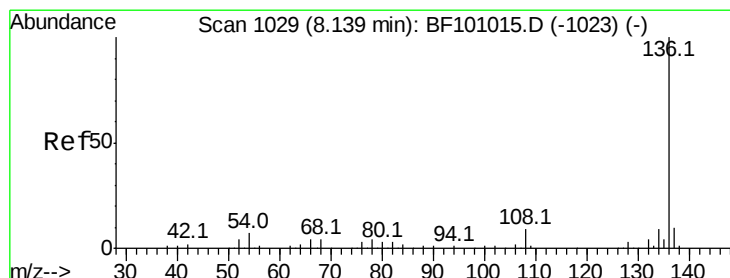
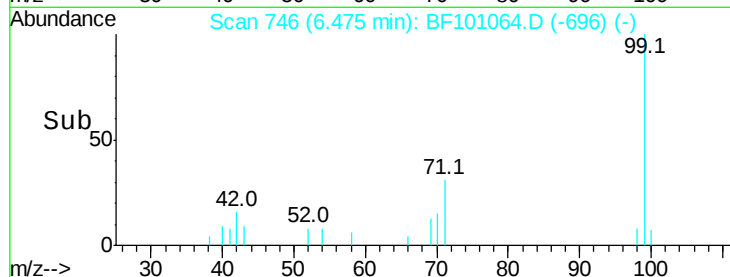
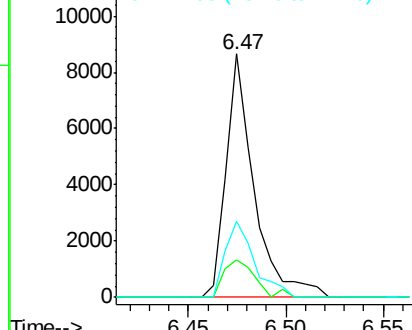
99 100

42 15.6 14.5 21.7

71 31.3 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: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion: 136 Resp: 172502

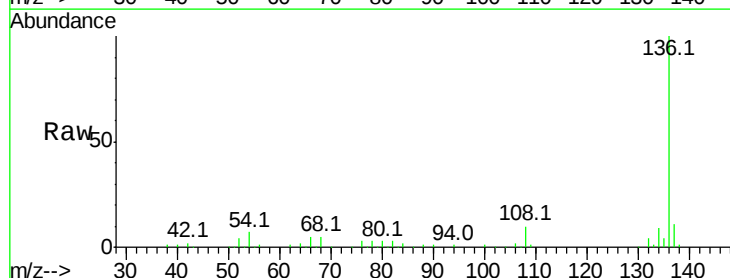
Ion Ratio Lower Upper

136 100

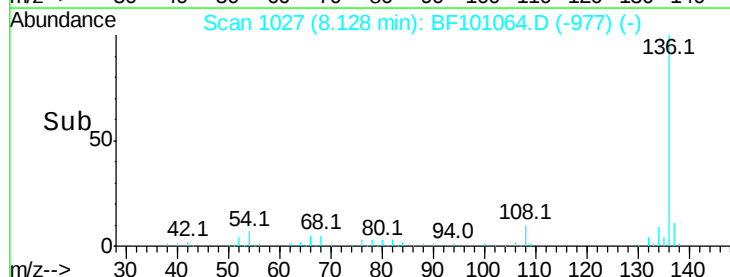
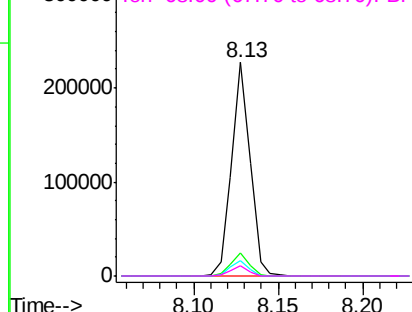
137 10.6 8.9 13.3

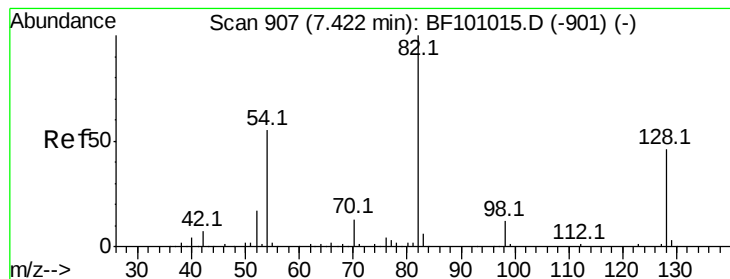
54 6.9 6.6 9.8

68 4.5 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: 1.932 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

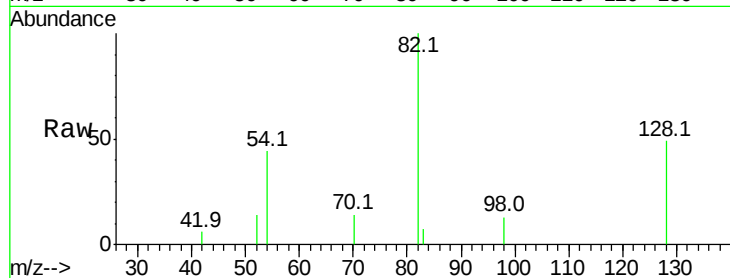
Tot Ion: 82 Resp: 5588

Ion Ratio Lower Upper

82 100

128 48.6 36.1 54.1

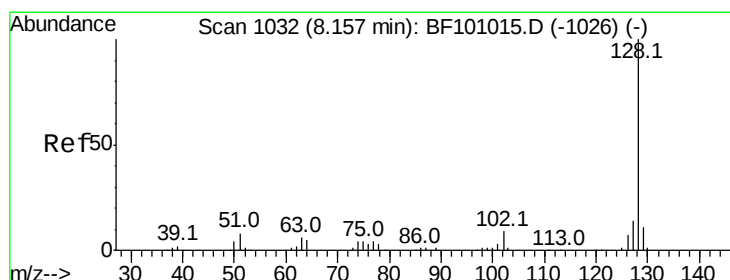
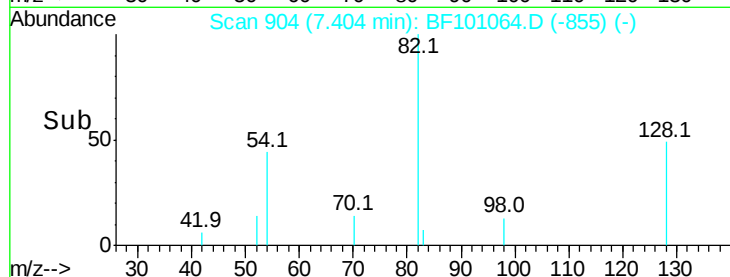
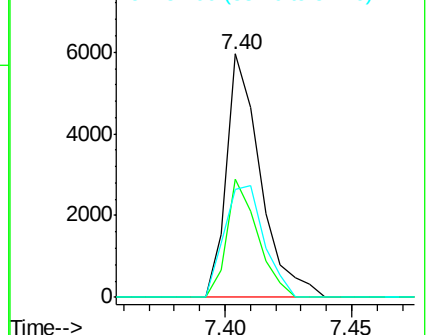
54 44.3 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 3.717 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

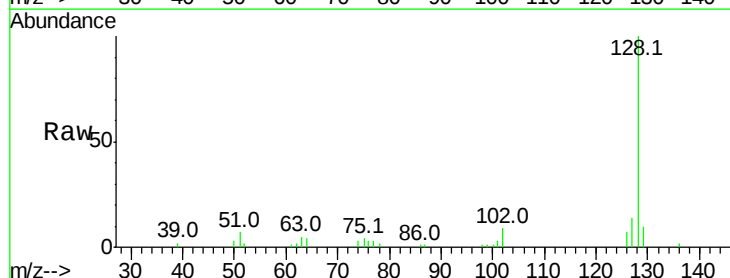
Tgt Ion: 128 Resp: 31599

Ion Ratio Lower Upper

128 100

129 9.8 8.8 13.2

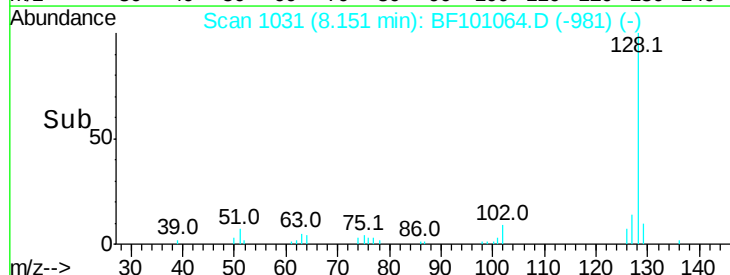
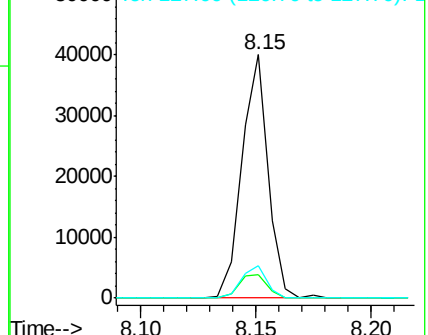
127 13.6 10.9 16.3

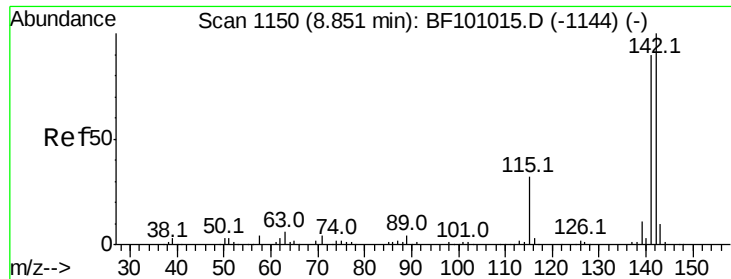


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

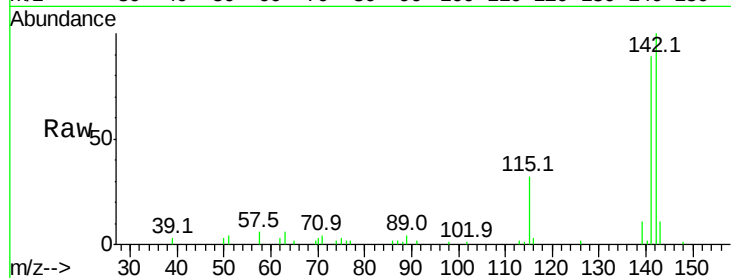




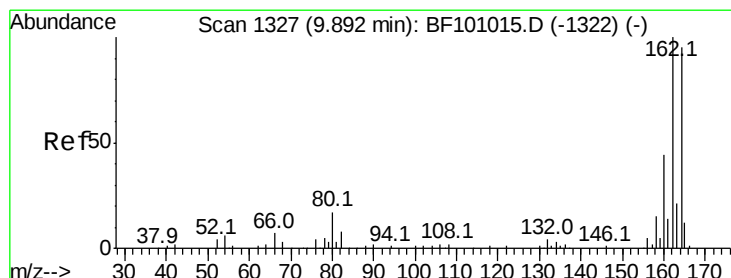
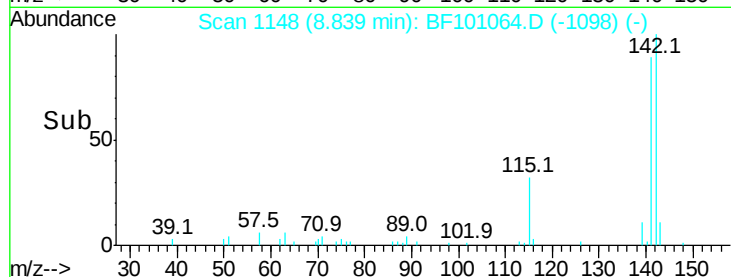
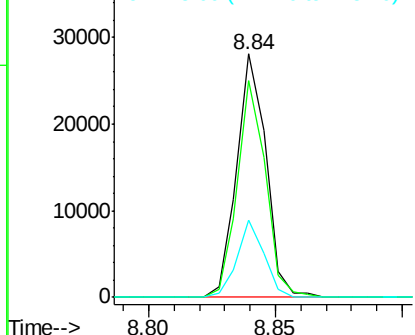
#37
2-Methylnaphthalene
Concen: 3.898 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion:142 Resp: 22517
Ion Ratio Lower Upper
142 100
141 88.9 70.8 106.2
115 31.6 26.1 39.1

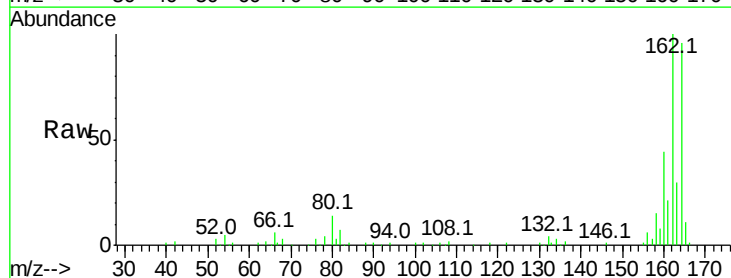


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

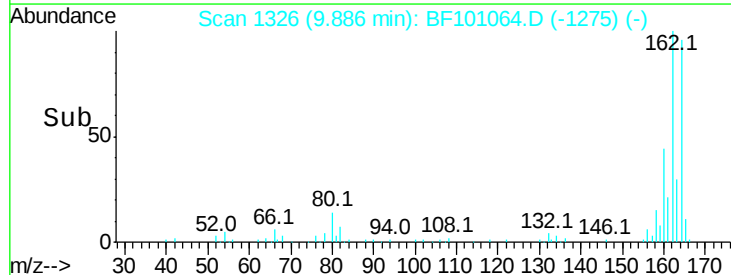
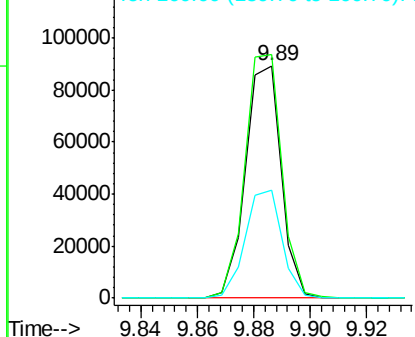


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion:164 Resp: 78581
Ion Ratio Lower Upper
164 100
162 104.6 86.1 129.1
160 46.5 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

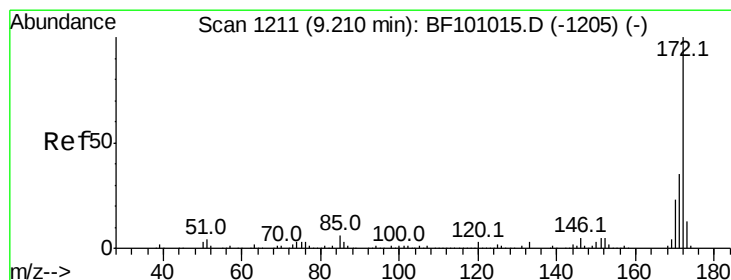
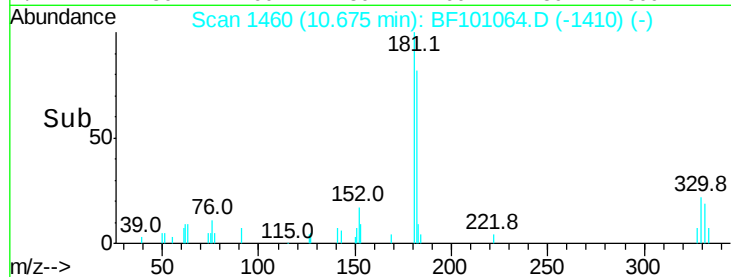
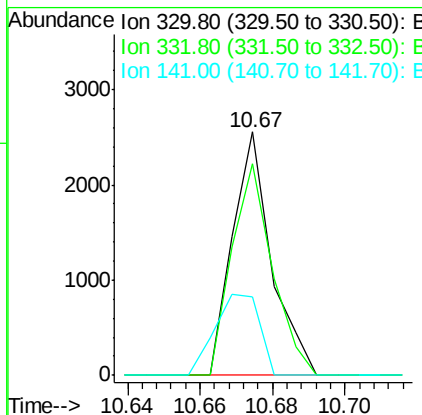
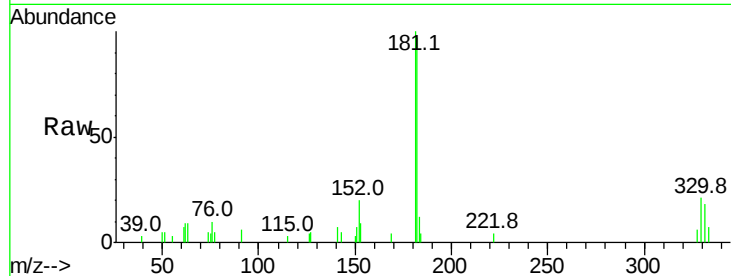




#41
 2,4,6-Tribromophenol
 Concen: 2.013 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

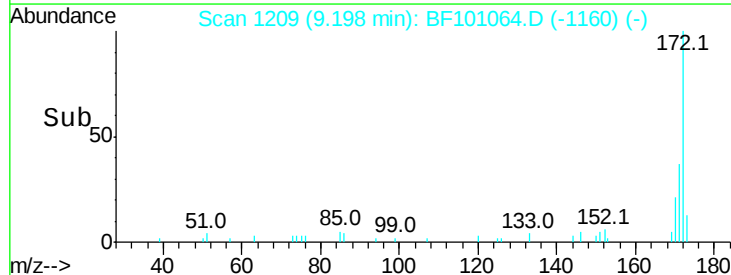
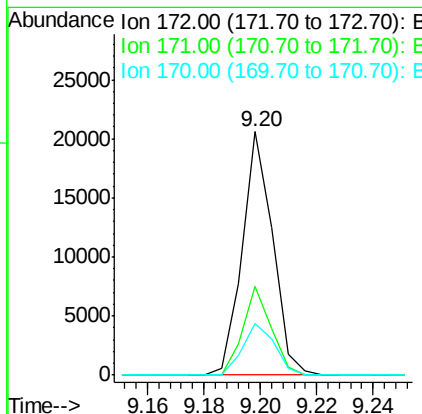
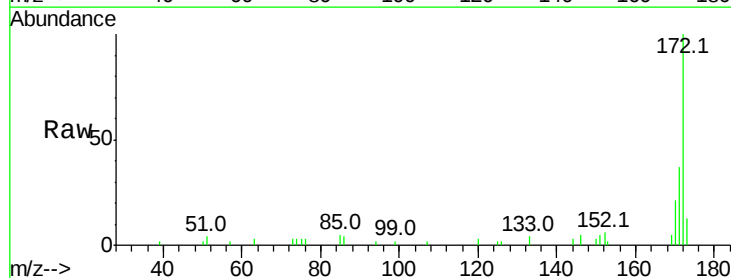
Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

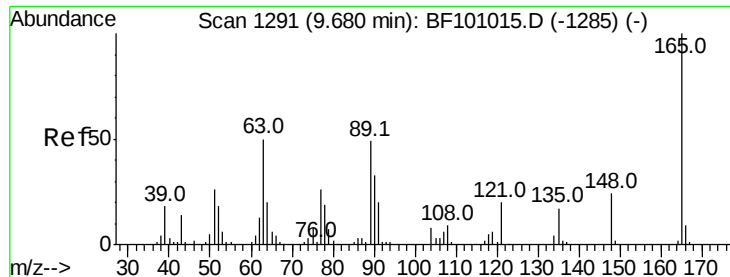
Tot Ion	Ratio	Lower	Upper
330	100		
332	90.7	77.0	115.6
141	38.3	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 2.673 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.7	44.5
170	21.0	19.6	29.4

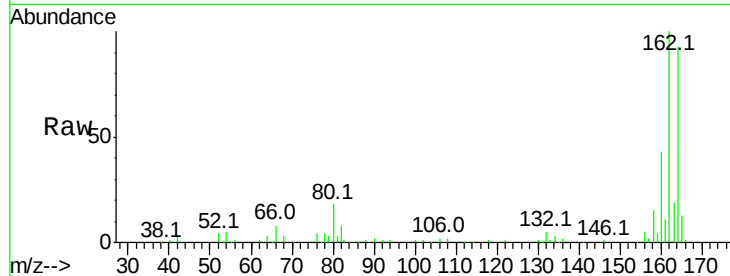




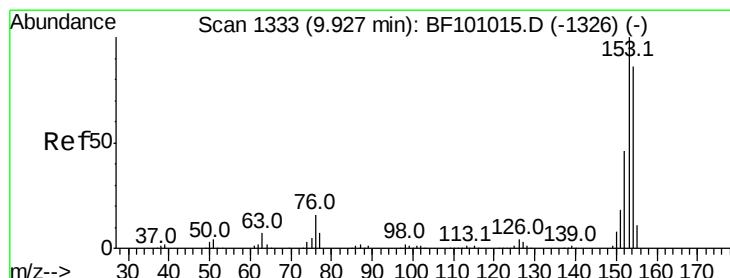
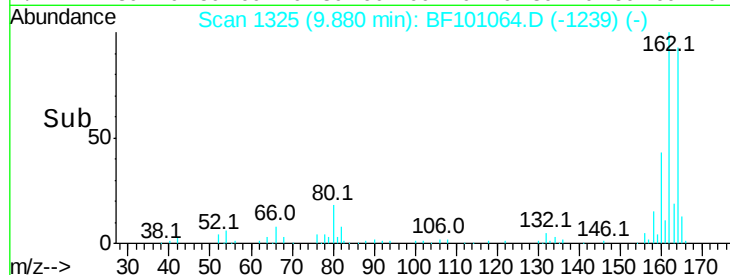
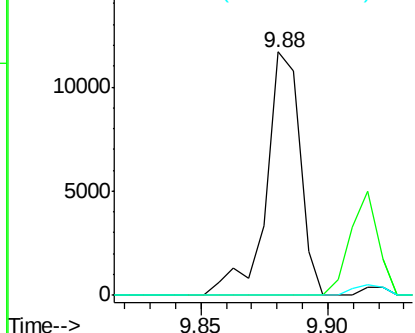
#50
2,6-Dinitrotoluene
Concen: 8.101 ng
RT: 9.88 min Scan# 1325
Delta R.T. 0.21 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion:165 Resp: 10813
Ion Ratio Lower Upper
165 100
63 0.0 44.7 67.1#
89 0.0 44.0 66.0#

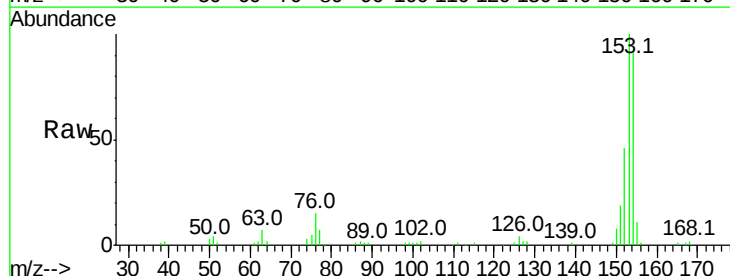


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

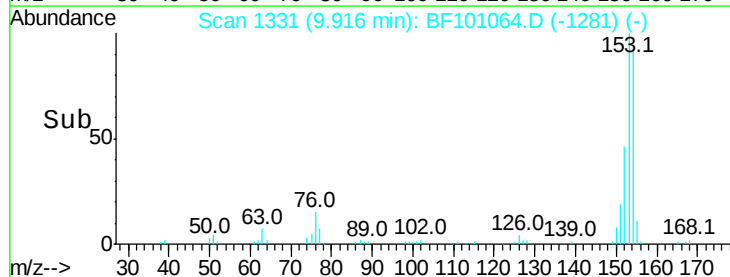
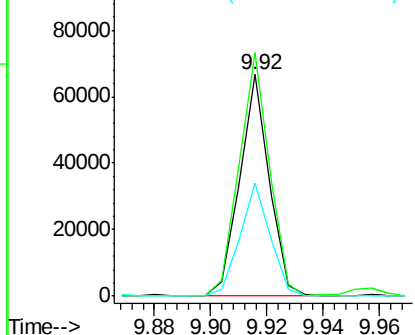


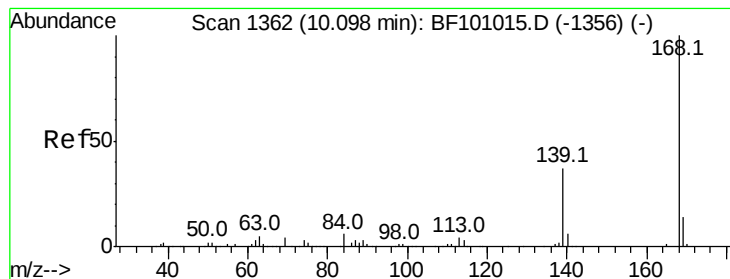
#51
Acenaphthene
Concen: 9.556 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion:154 Resp: 48081
Ion Ratio Lower Upper
154 100
153 110.0 91.2 136.8
152 51.0 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





#54

Dibenzenofuran

Concen: 9.767 ng

RT: 10.09 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

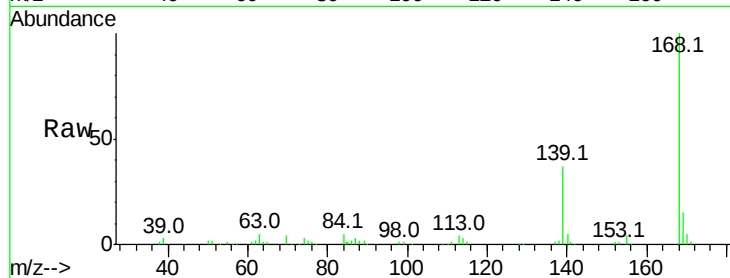
Tot Ion:168 Resp: 70819

Ion Ratio Lower Upper

168 100

139 37.1 30.1 45.1

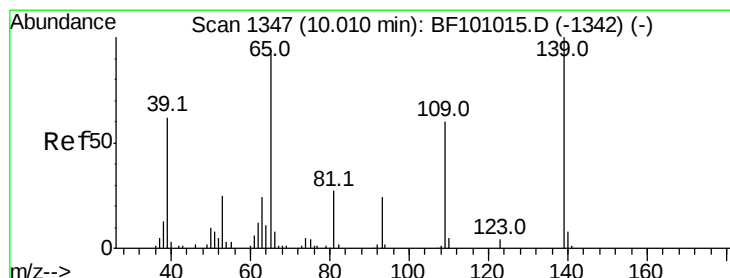
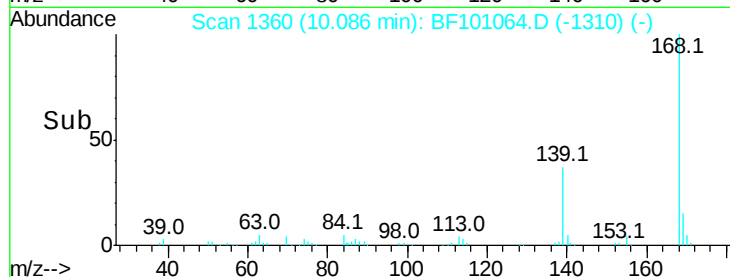
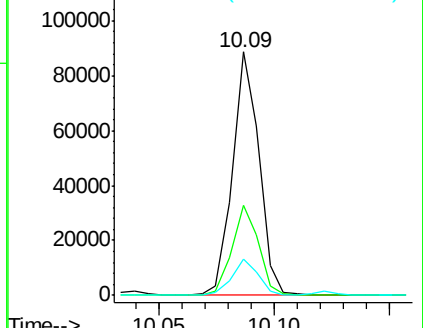
169 14.6 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 25.764 ng

RT: 10.09 min Scan# 1360

Delta R.T. 0.08 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

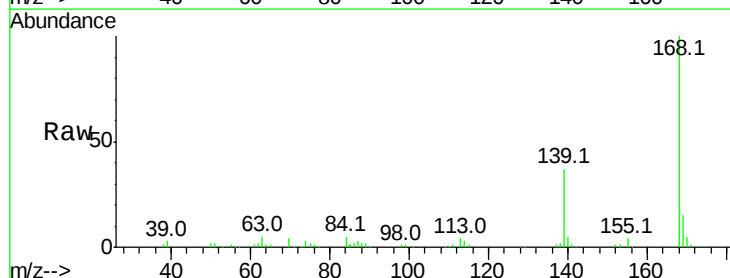
Tgt Ion:139 Resp: 26081

Ion Ratio Lower Upper

139 100

109 1.0 48.4 88.4#

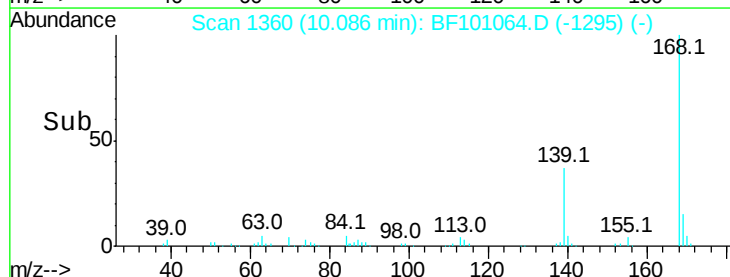
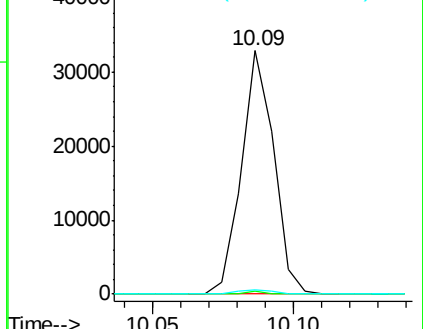
65 1.7 72.6 112.6#

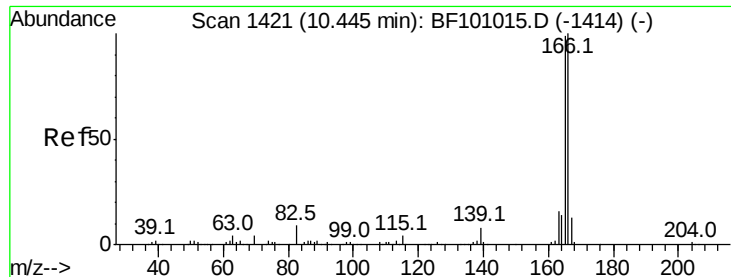


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#57

Fluorene

Concen: 16.694 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

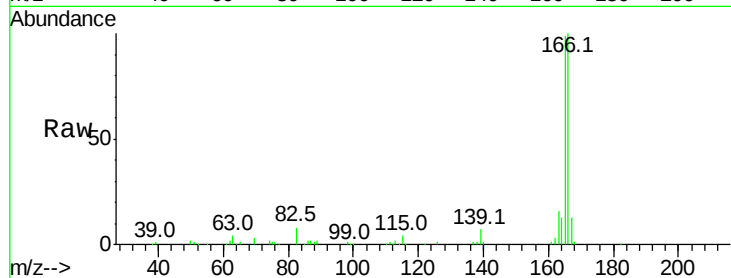
Tot Ion:166 Resp: 98399

Ion Ratio Lower Upper

166 100

165 98.7 79.8 119.8

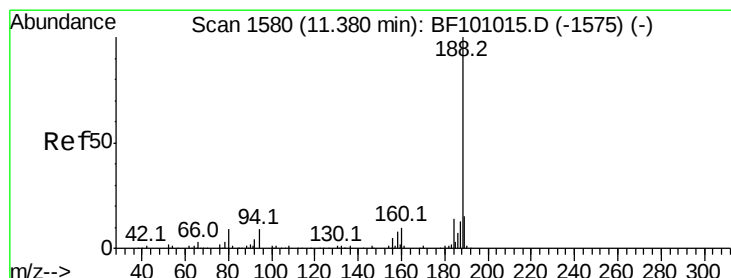
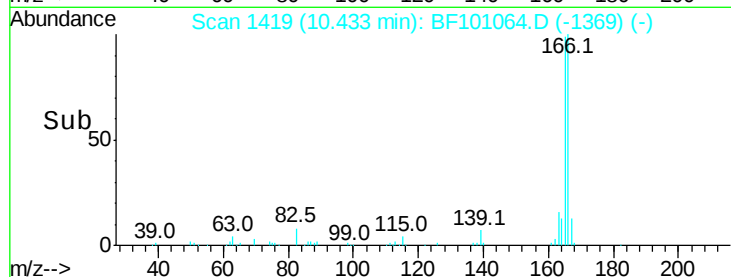
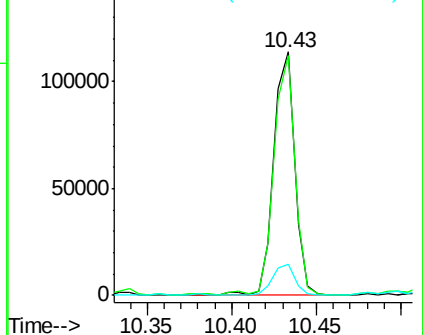
167 12.8 10.6 16.0



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: 11.37 min Scan# 1579

Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

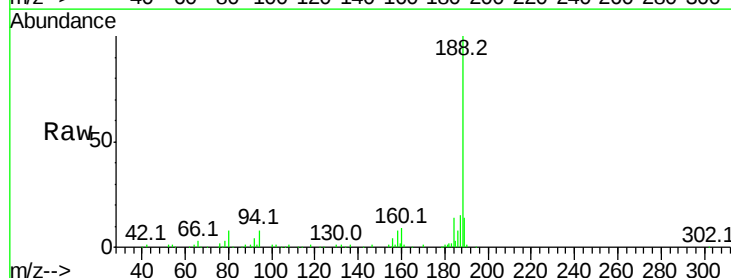
Tgt Ion:188 Resp: 138341

Ion Ratio Lower Upper

188 100

94 7.5 8.5 12.7#

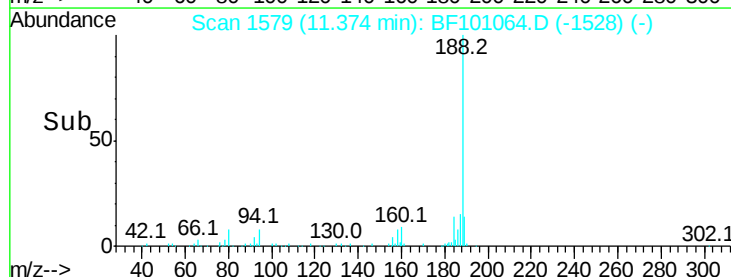
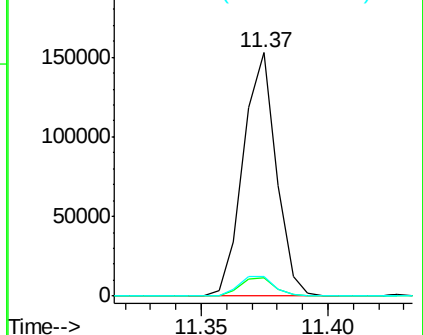
80 8.1 9.2 13.8#

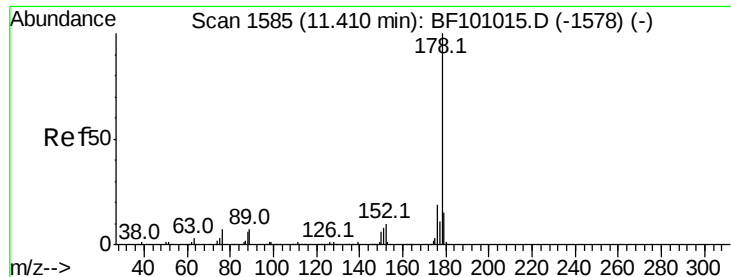


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 76.979 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

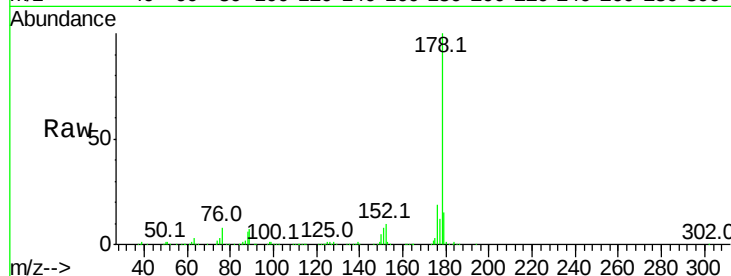
Tot Ion:178 Resp: 586457

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

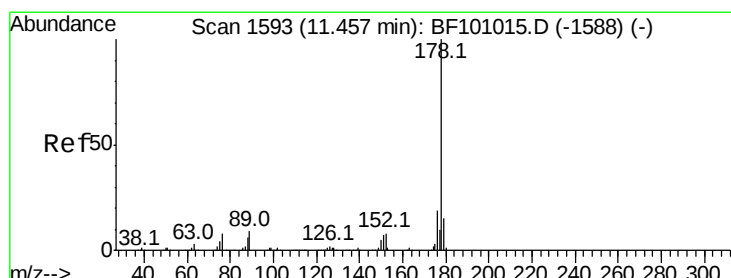
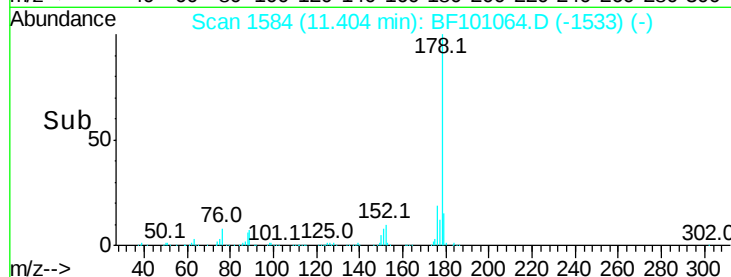
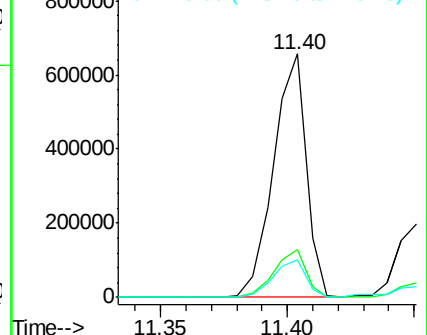
179 15.5 13.0 19.6



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: 20.617 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

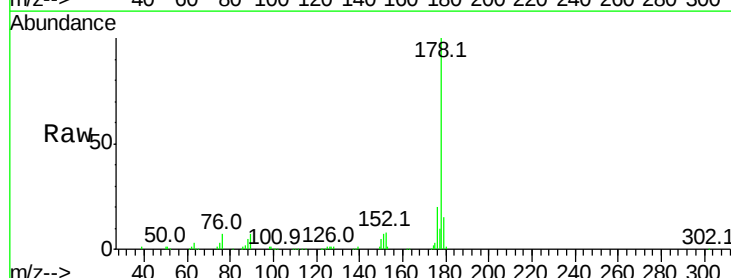
Tgt Ion:178 Resp: 158968

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

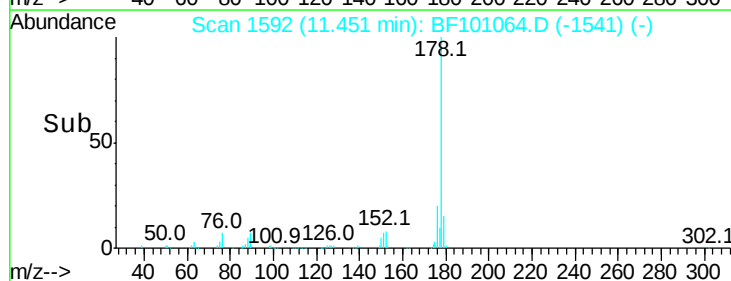
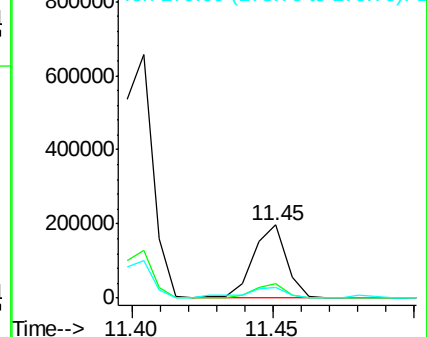
179 15.3 12.6 19.0

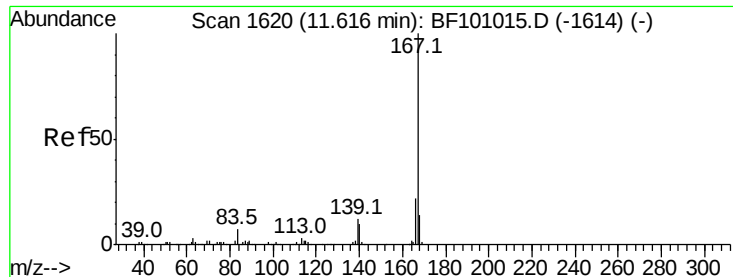


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.764 ng

RT: 11.60 min Scan# 1618

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

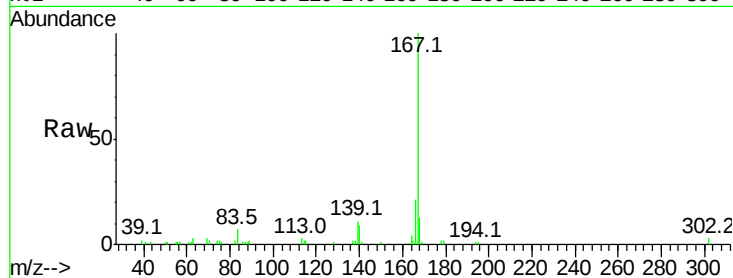
Tot Ion:167 Resp: 33562

Ion Ratio Lower Upper

167 100

166 21.3 17.6 26.4

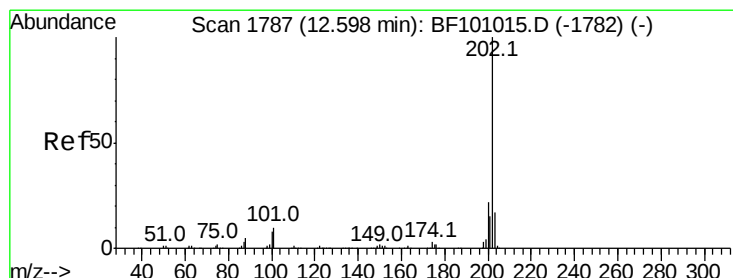
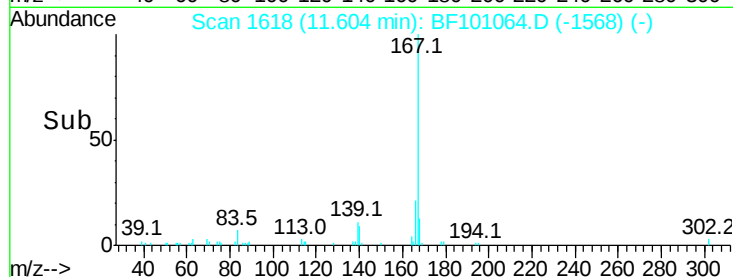
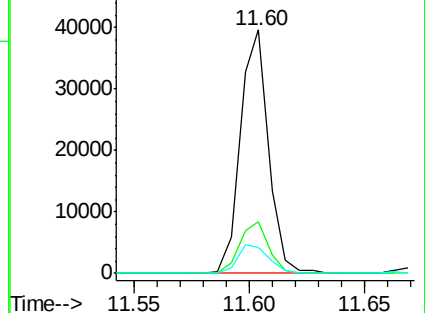
139 10.8 10.9 16.3#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 49.774 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

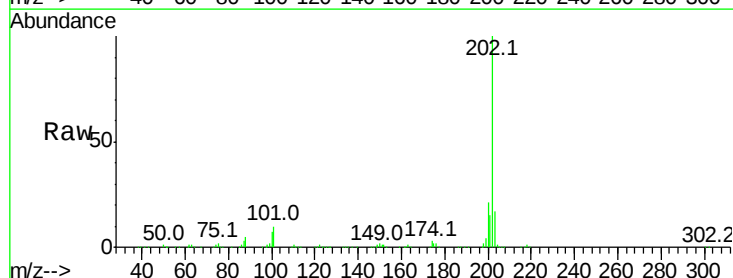
Tgt Ion:202 Resp: 420333

Ion Ratio Lower Upper

202 100

101 10.0 0.0 34.1

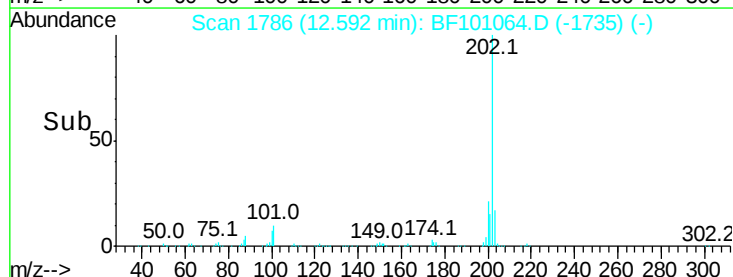
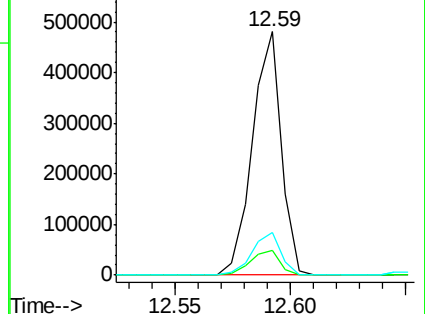
203 17.3 0.0 38.1

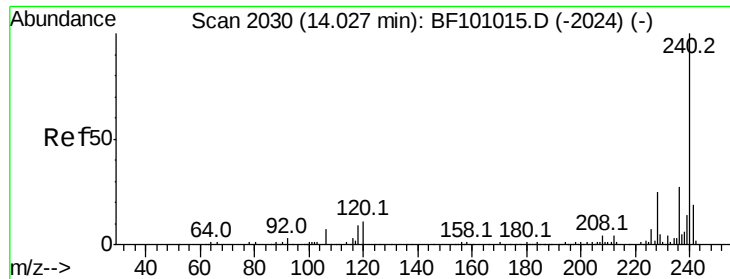


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

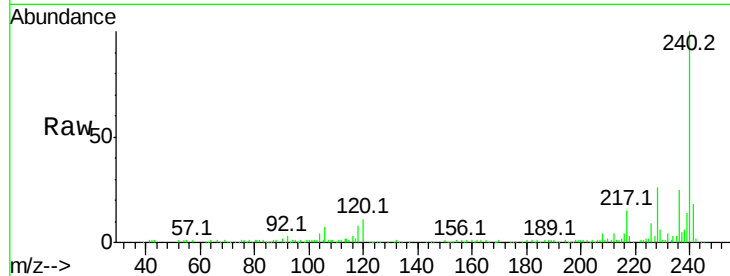
Tot Ion:240 Resp: 92216

Ion Ratio Lower Upper

240 100

120 10.6 9.5 14.3

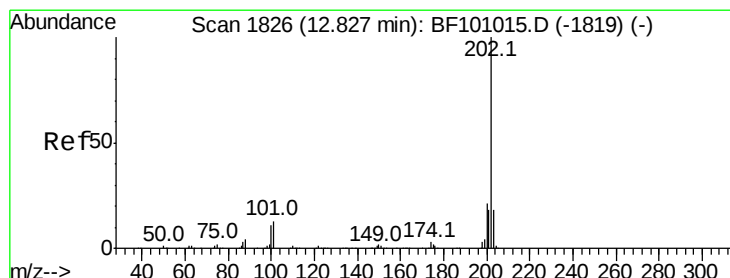
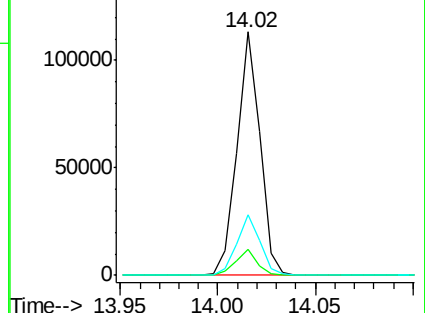
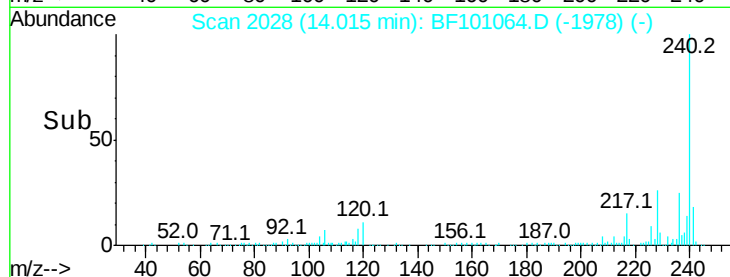
236 25.0 20.7 31.1



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: 53.070 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

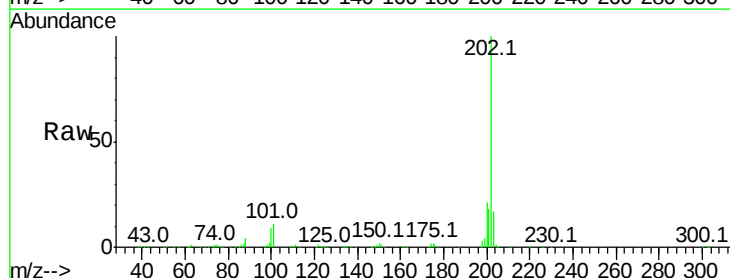
Tgt Ion:202 Resp: 337693

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

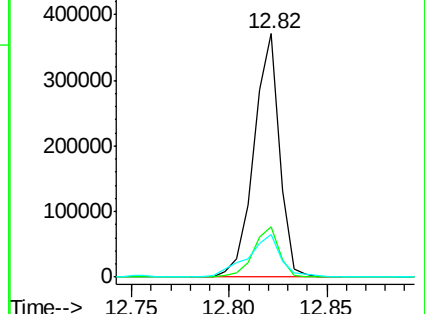
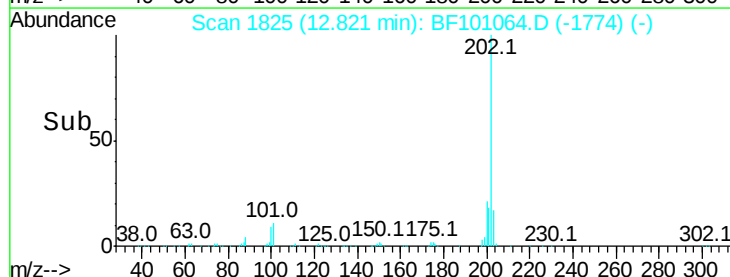
203 17.4 14.3 21.5

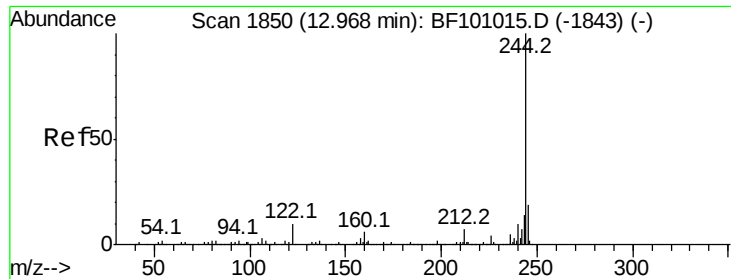


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

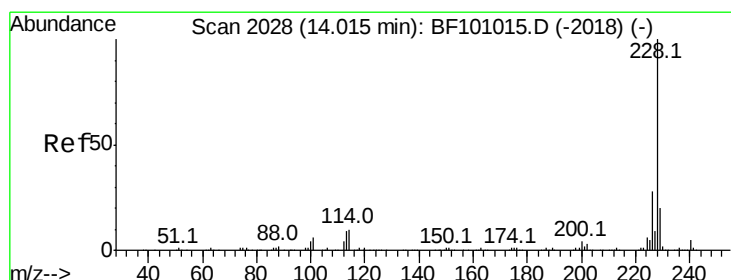
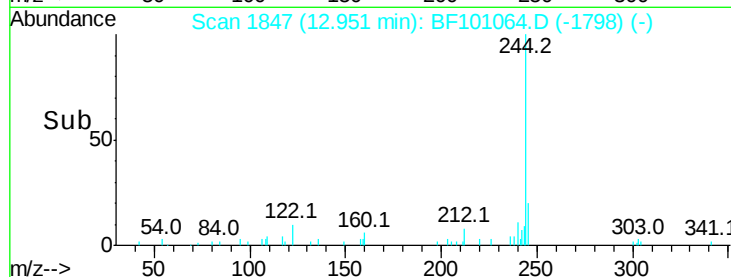
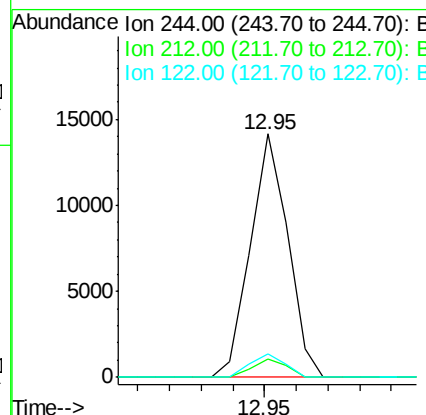
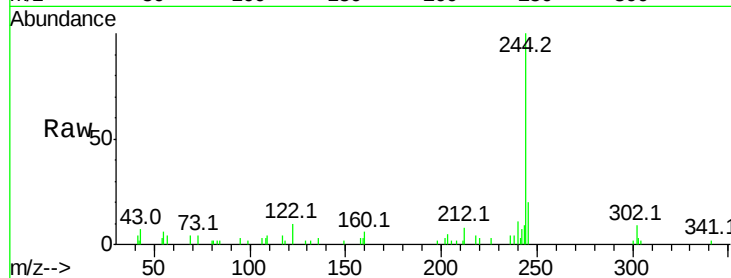




#78
 Terphenyl-d14
 Concen: 2.749 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

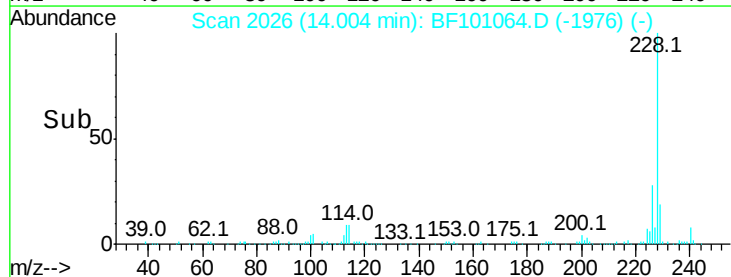
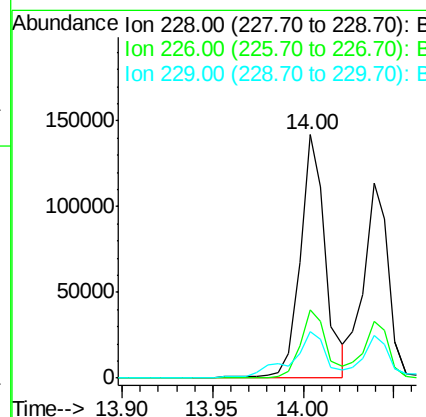
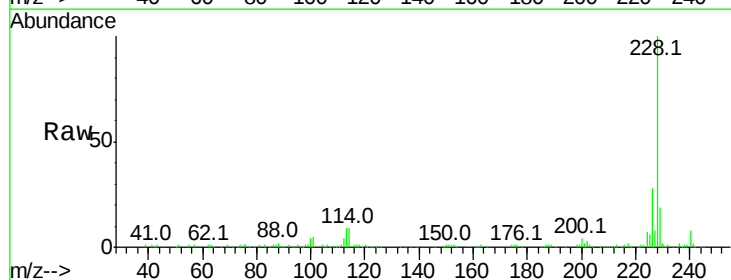
Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

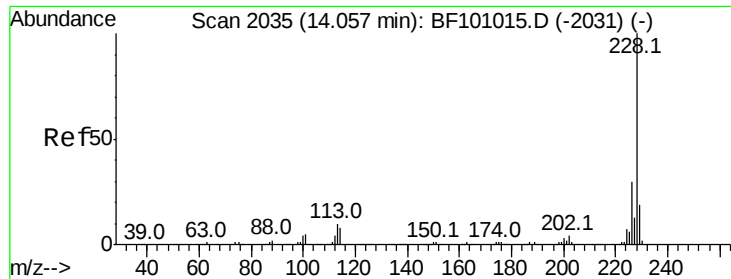
Tot Ion:244 Resp: 11589
 Ion Ratio Lower Upper
 244 100
 212 7.6 5.4 8.0
 122 9.7 11.0 16.4#



#80
 Benzo(a)anthracene
 Concen: 23.872 ng
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Tgt Ion:228 Resp: 138993
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 19.1 15.8 23.6





#82

Chrysene

Concen: 20.265 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

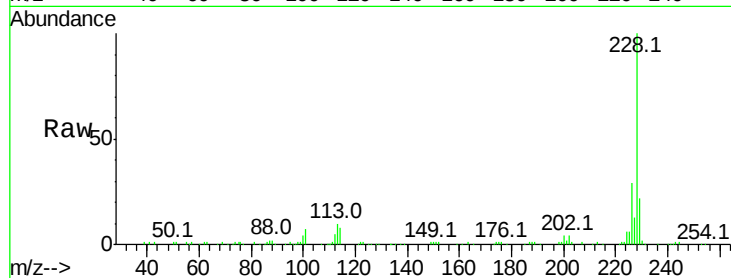
Tot Ion:228 Resp: 109581

Ion Ratio Lower Upper

228 100

226 29.3 25.0 37.6

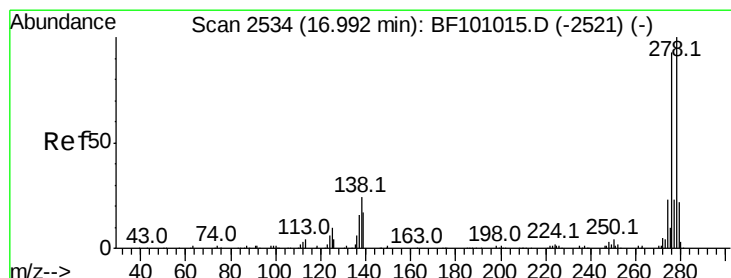
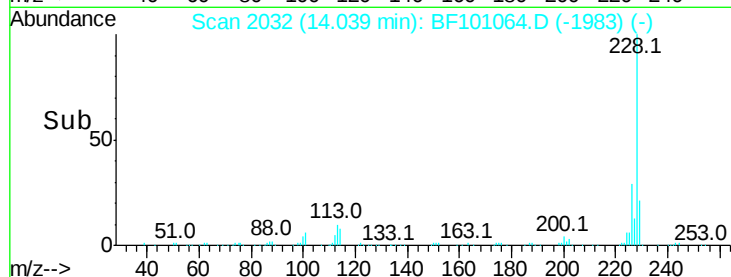
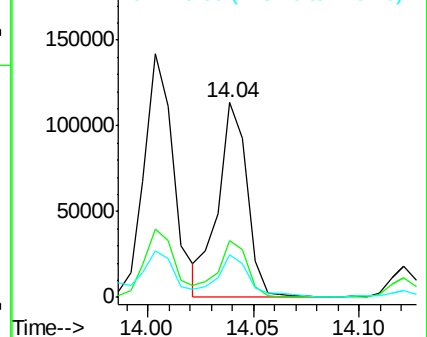
229 21.9 16.2 24.4



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: 10.876 ng

RT: 16.96 min Scan# 2529

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

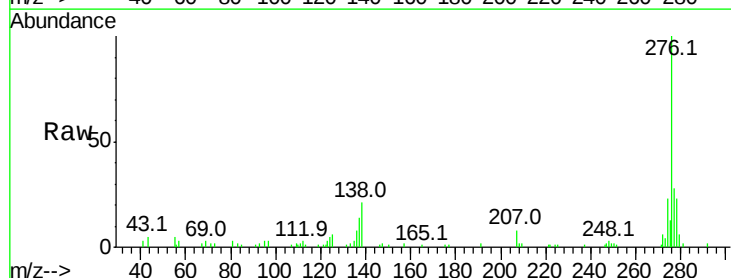
Tgt Ion:276 Resp: 52287

Ion Ratio Lower Upper

276 100

138 23.3 25.0 37.6#

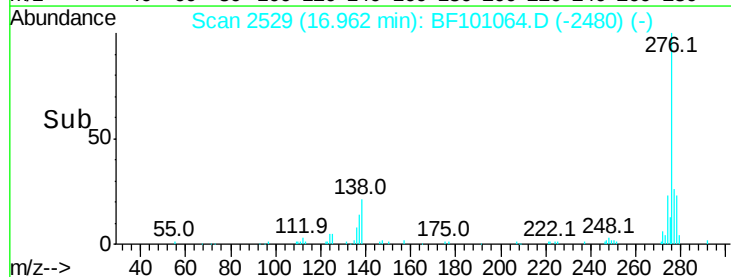
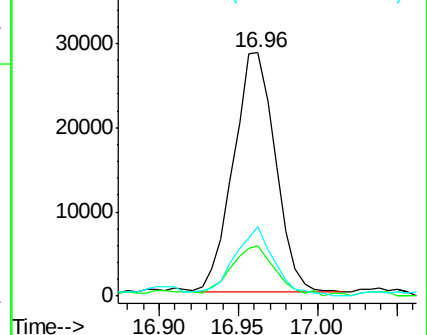
277 27.8 20.1 30.1

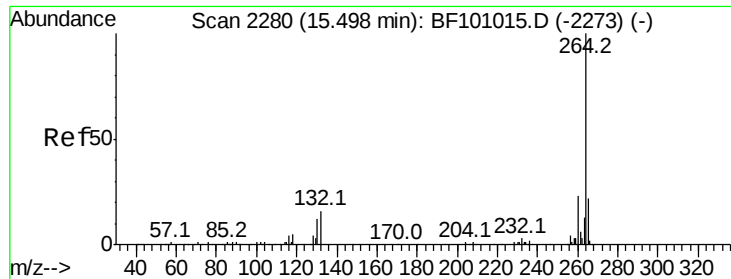


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

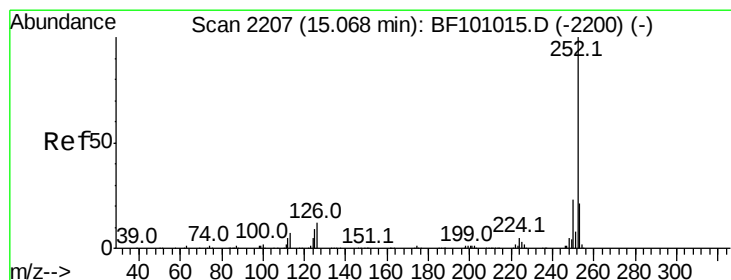
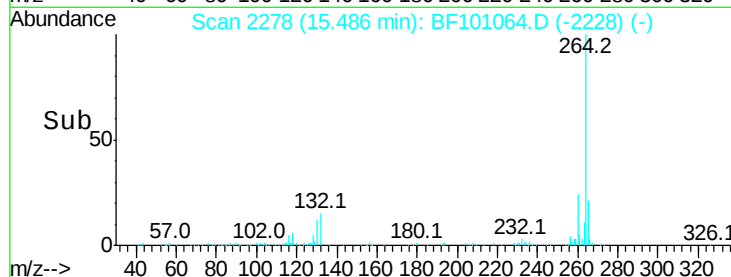
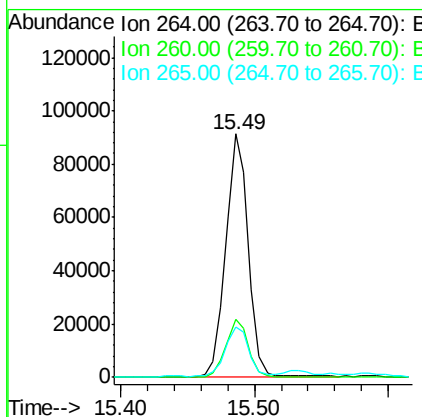
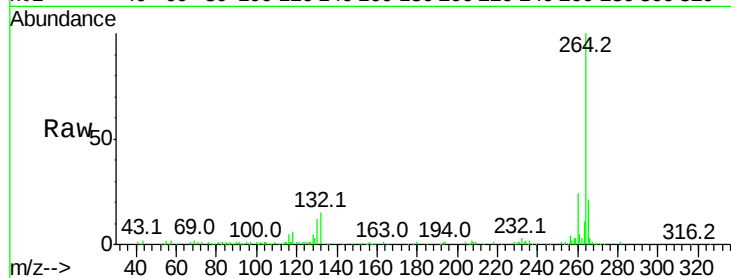




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

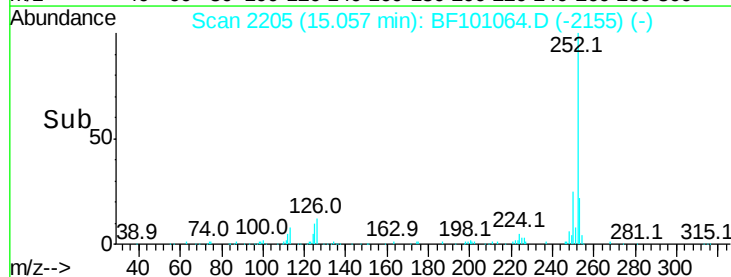
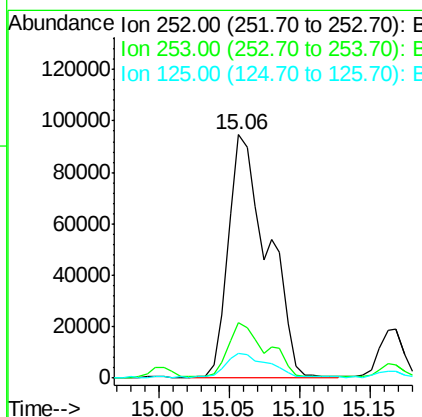
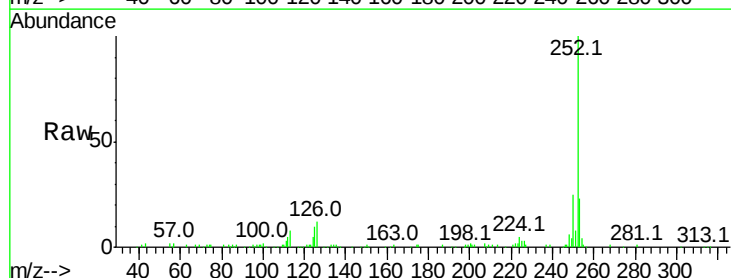
Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

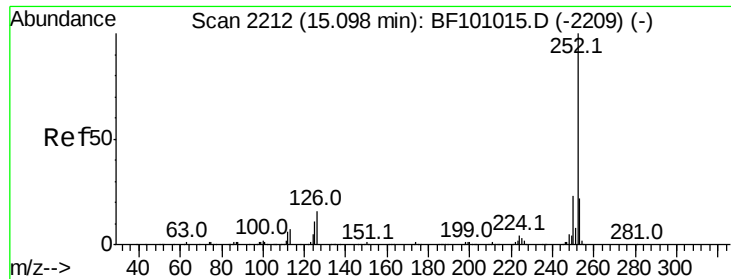
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	20.7	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 28.427 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	10.2	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 28.853 ng

RT: 15.06 min Scan# 2205

Delta R.T. -0.04 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

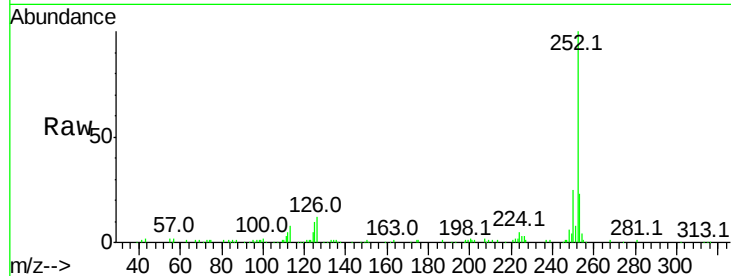
Tot Ion:252 Resp: 185724

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

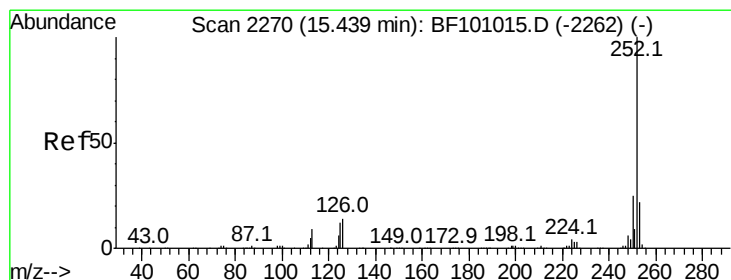
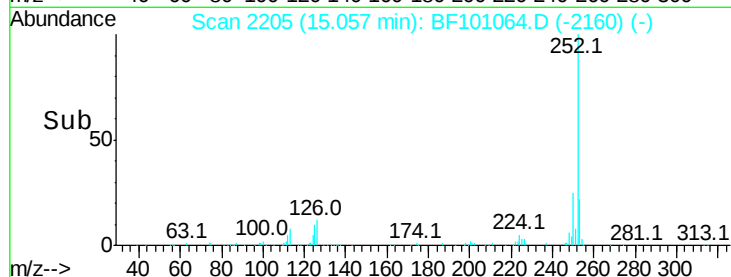
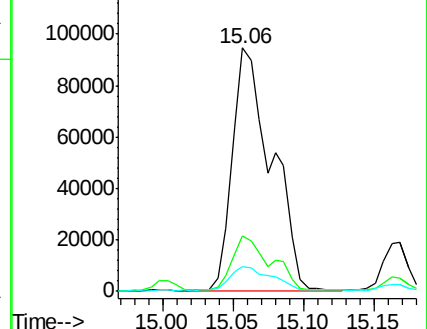
125 10.2 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 11.139 ng

RT: 15.36 min Scan# 2257

Delta R.T. -0.07 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

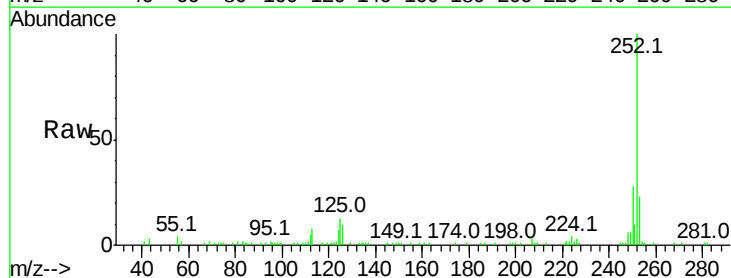
Tgt Ion:252 Resp: 66163

Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

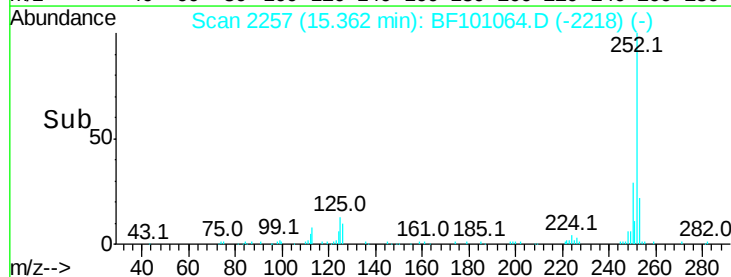
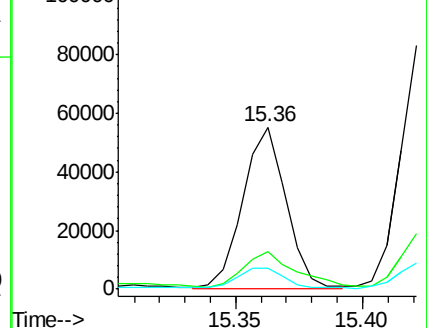
125 13.1 9.8 14.6

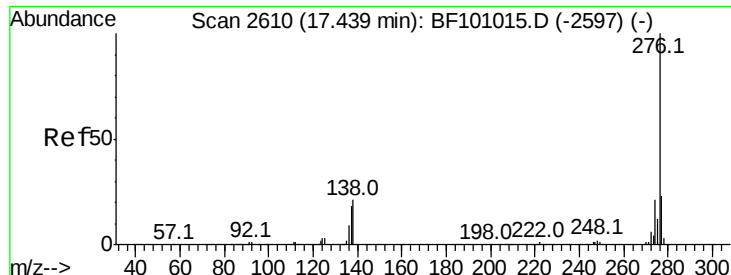


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 9.911 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. -0.02 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	20.0	21.8	32.8

