

Data Path : Z:\HPCHEM1\BNA F\DATA\BF093017\
 Data File : BF098977.D
 Acq On : 30 Sep 2017 21:58
 Operator : SJ/JU
 Sample : I5547-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 30 23:30:11 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	128570	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	473158	20.00	ng	0.00
38) Acenaphthene-d10	9.96	164	177479	20.00	ng	0.00
63) Phenanthrene-d10	11.44	188	275521	20.00	ng	0.00
75) Chrysene-d12	14.09	240	242202	20.00	ng	0.00
86) Perylene-d12	15.58	264	168045	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	144862	17.94	ng	-0.01
7) Phenol-d6	6.53	99	171406	17.20	ng	-0.01
23) Nitrobenzene-d5	7.47	82	90670	12.29	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	17790	12.25	ng	-0.01
44) 2-Fluorobiphenyl	9.27	172	181774	17.10	ng	-0.01
78) Terphenyl-d14	13.02	244	134469	12.63	ng	-0.01

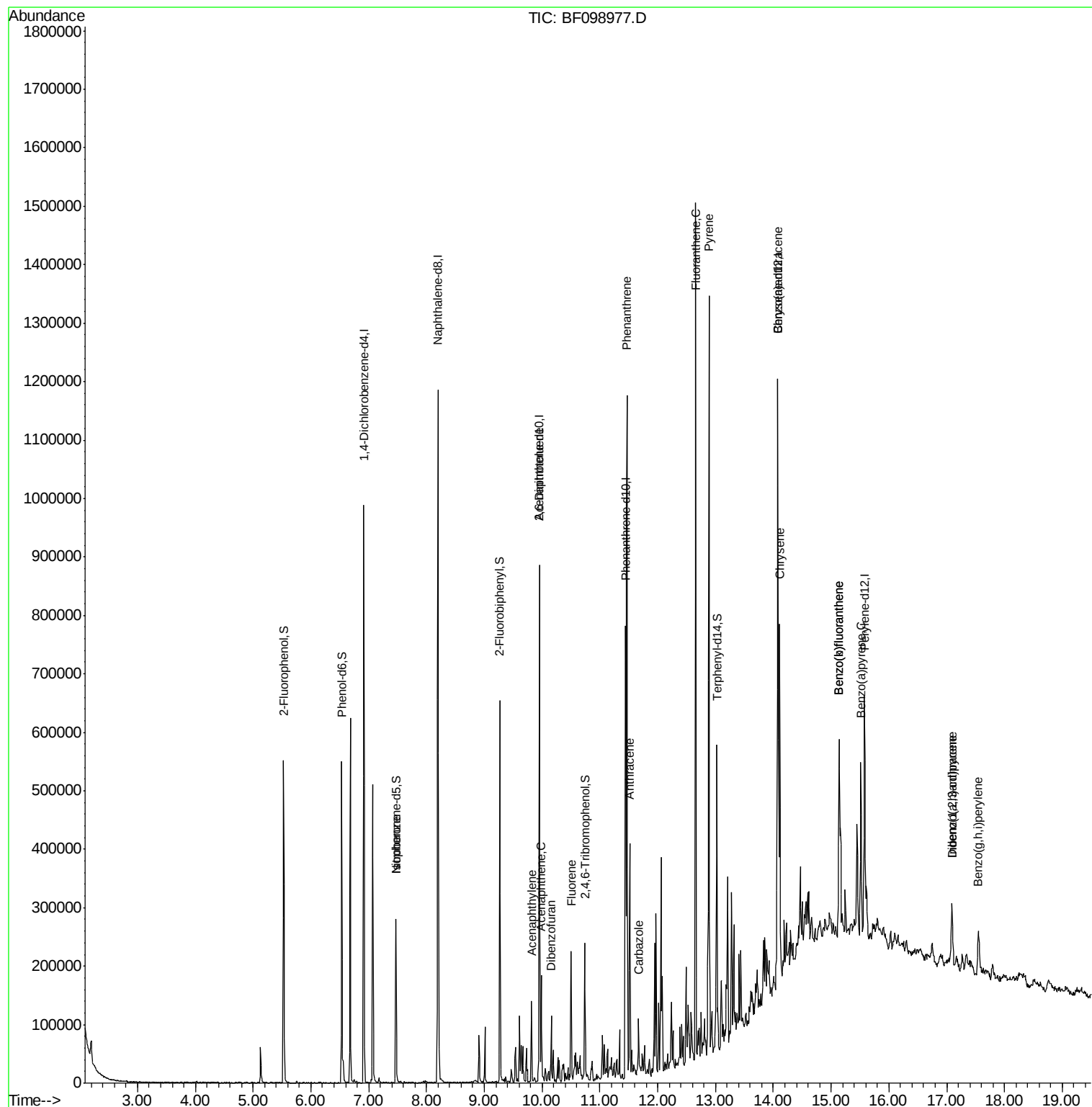
Target Compounds				Qvalue		
25) Isophorone	7.47	82	90669	5.944	ng	# 64
48) Acenaphthylene	9.82	152	47560	2.713	ng	98
50) 2,6-Dinitrotoluene	9.96	165	23101	7.922	ng	# 26
51) Acenaphthene	9.99	154	35209	3.170	ng	98
54) Dibenzofuran	10.16	168	30100	2.036	ng	# 92
57) Fluorene	10.50	166	68474	5.761	ng	100
70) Phenanthrene	11.47	178	408939	27.729	ng	98
71) Anthracene	11.52	178	132486	8.780	ng	98
72) Carbazole	11.67	167	32029	2.167	ng	100
74) Fluoranthene	12.66	202	532724	35.672	ng	99
77) Pyrene	12.89	202	509604	27.593	ng	100
80) Benzo(a)anthracene	14.07	228	250014	17.047	ng	95
82) Chrysene	14.11	228	199795	14.309	ng	98
85) Indeno(1,2,3-cd)pyrene	17.09	276	65000	5.820	ng	98
87) Benzo(b)fluoranthene	15.14	252	252206	24.410	ng	# 93
88) Benzo(k)fluoranthene	15.14	252	252206	24.714	ng	# 96
89) Benzo(a)pyrene	15.52	252	132503	13.971	ng	# 96
90) Dibenzo(a,h)anthracene	17.10	278	16961	2.235	ng	# 73
91) Benzo(a,h,i)perylene	17.55	276	61330	8.174	ng	# 93

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

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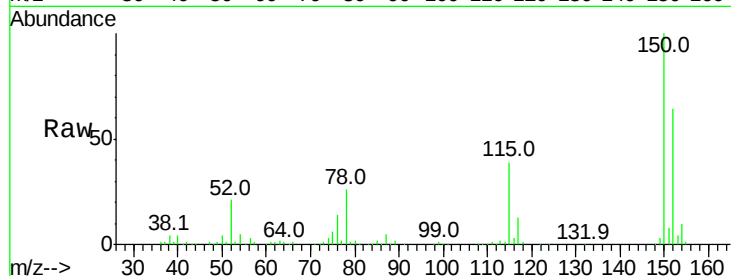


#1

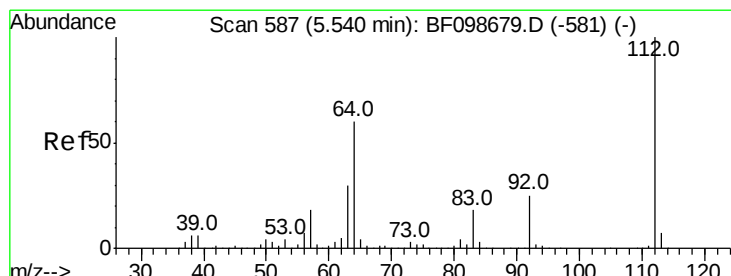
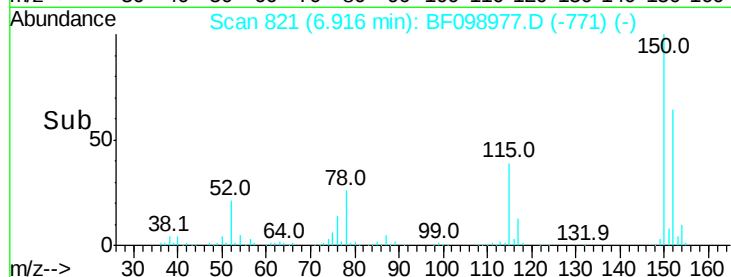
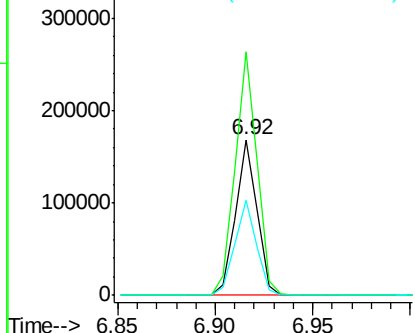
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 128570
Ion Ratio Lower Upper
152 100
150 156.4 124.6 186.8
115 61.3 50.1 75.1



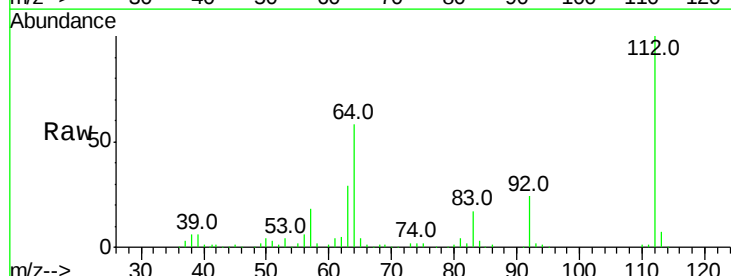
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



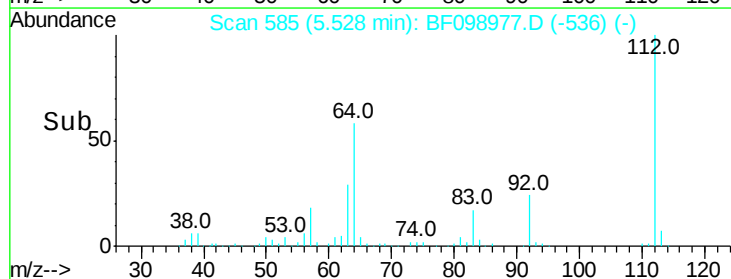
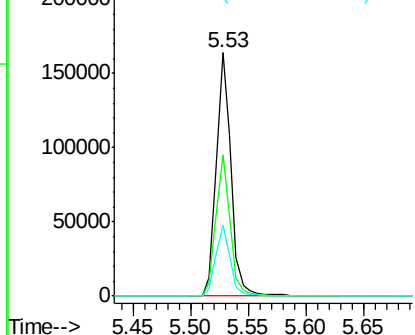
#5

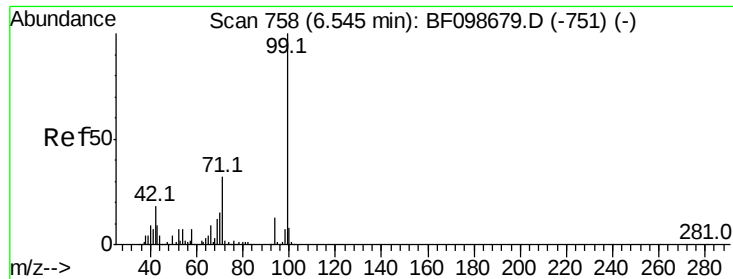
2-Fluorophenol
Concen: 17.936 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Tgt Ion:112 Resp: 144862
Ion Ratio Lower Upper
112 100
64 57.8 47.9 71.9
63 29.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 17.204 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampled :

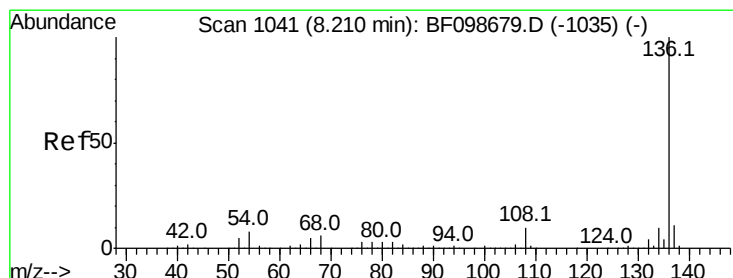
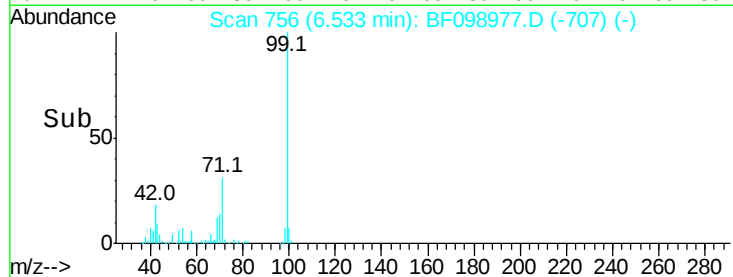
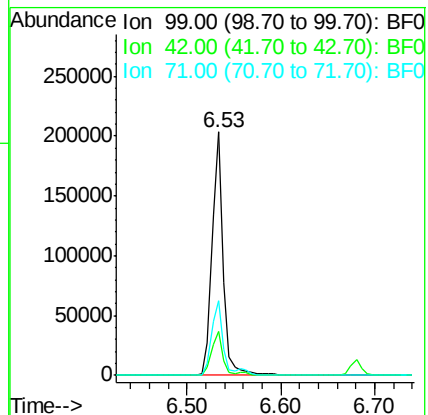
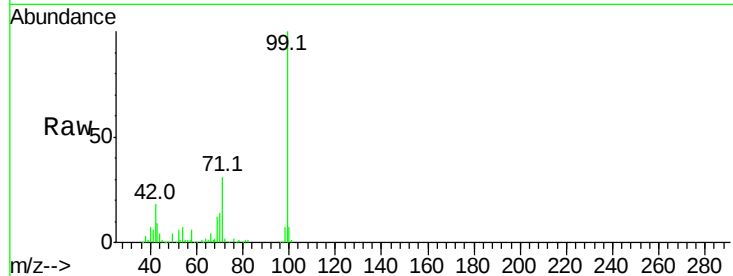
Tot Ion: 99 Resp: 171406

Ion Ratio Lower Upper

99 100

42 18.0 14.5 21.7

71 30.6 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Tgt Ion: 136 Resp: 473158

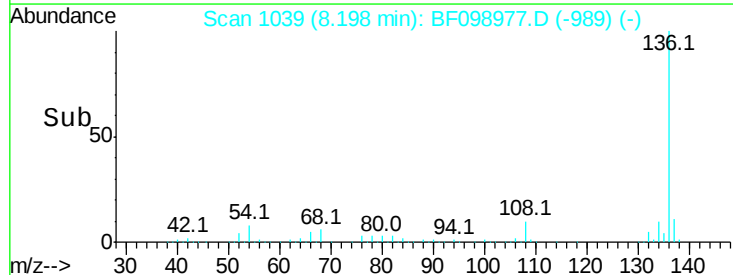
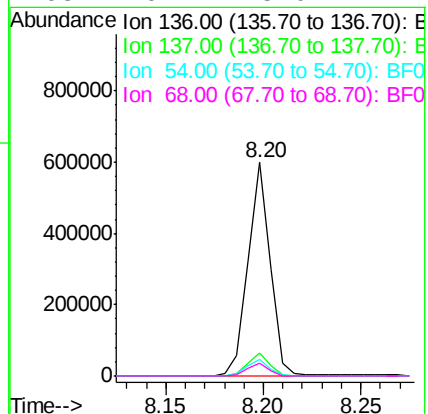
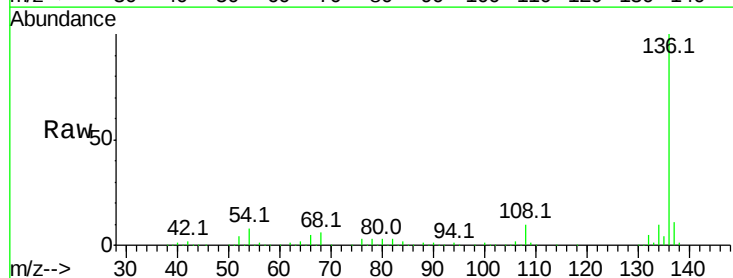
Ion Ratio Lower Upper

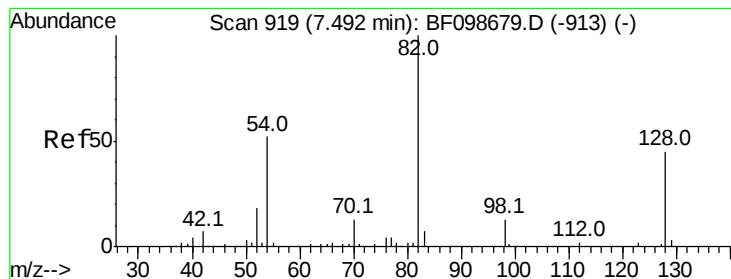
136 100

137 11.1 8.9 13.3

54 7.8 6.6 9.8

68 6.1 5.0 7.4





#23

Nitrobenzene-d5

Concen: 12.289 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampled :

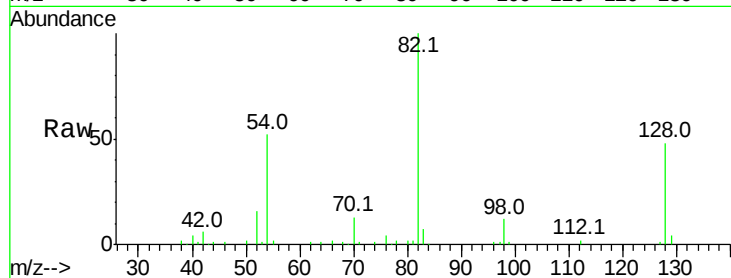
Tot Ion: 82 Resp: 90670

Ion Ratio Lower Upper

82 100

128 48.0 36.1 54.1

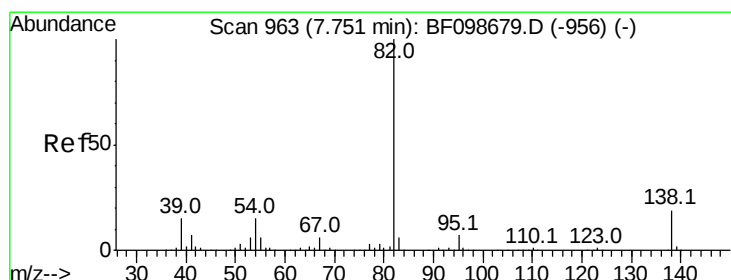
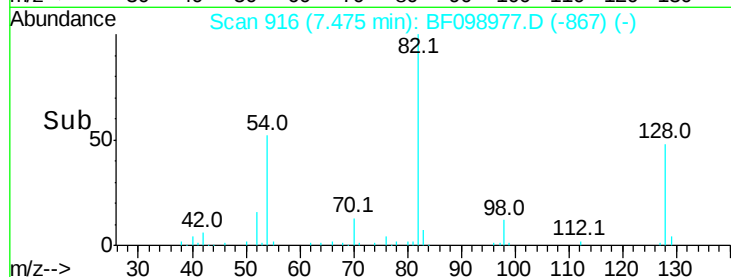
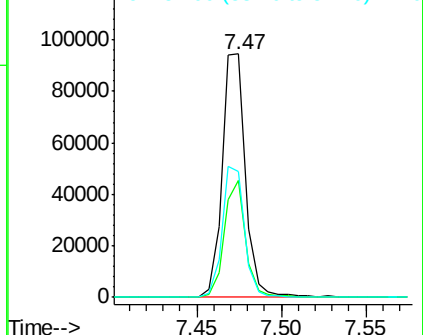
54 51.7 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 5.944 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.27 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

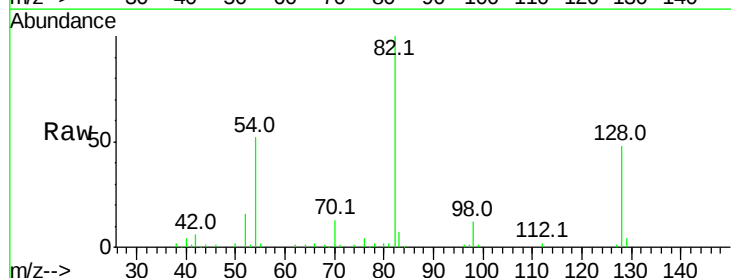
Tgt Ion: 82 Resp: 90669

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

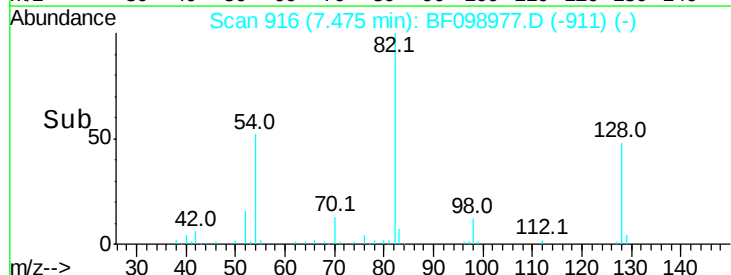
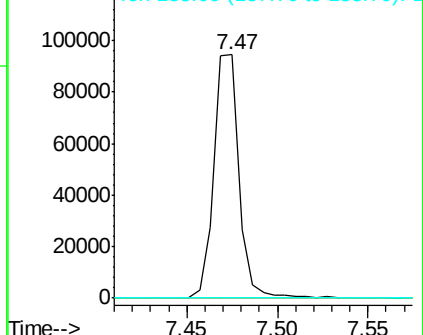
138 0.0 14.9 22.3#

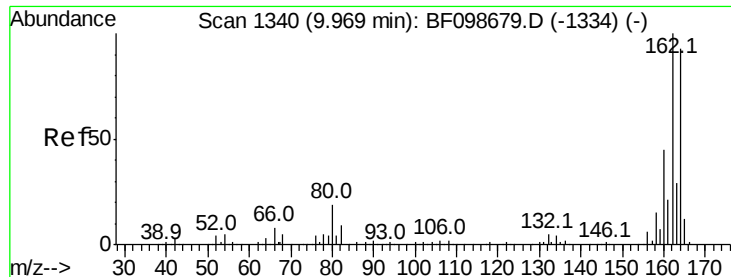


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0

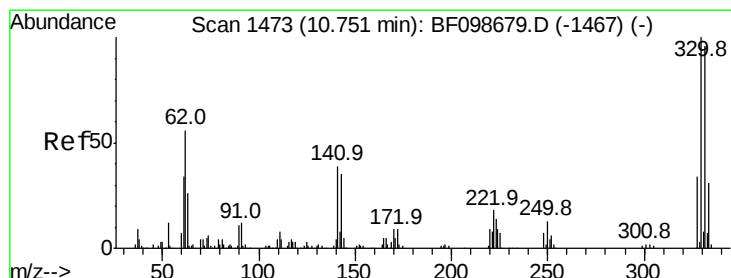
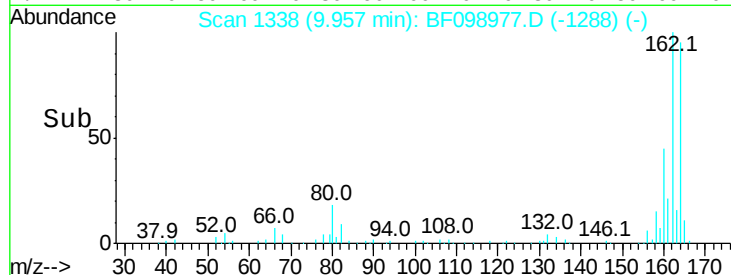
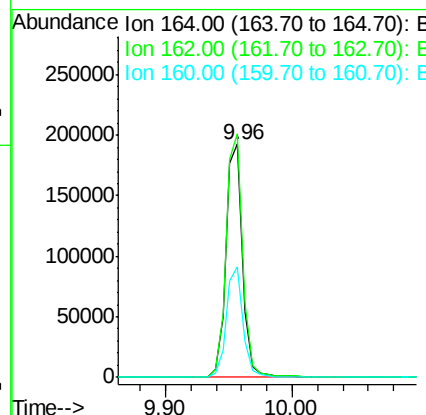
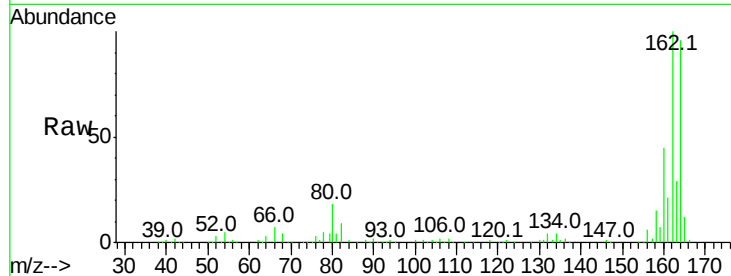




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.96 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

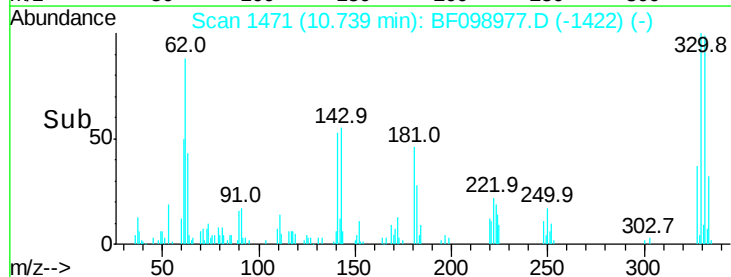
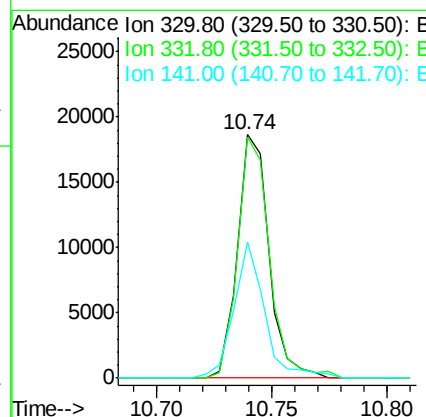
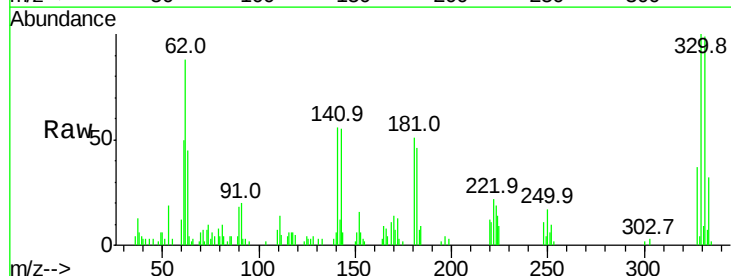
Instrument :
 BNA_F
 ClientSampleId :

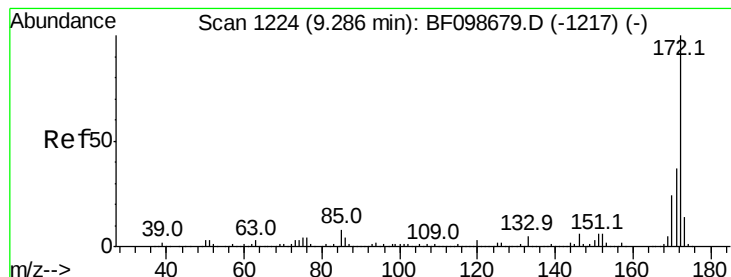
Tot Ion:164 Resp: 177479
 Ion Ratio Lower Upper
 164 100
 162 104.4 86.1 129.1
 160 47.3 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 12.250 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion:330 Resp: 17790
 Ion Ratio Lower Upper
 330 100
 332 100.0 77.0 115.6
 141 54.4 29.9 44.9#





#44

2-Fluorobiphenyl

Concen: 17.098 ng

RT: 9.27 min Scan# 1221

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampleId :

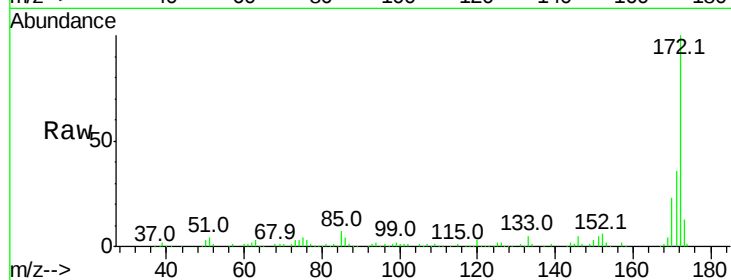
Tot Ion:172 Resp: 181774

Ion Ratio Lower Upper

172 100

171 35.9 29.7 44.5

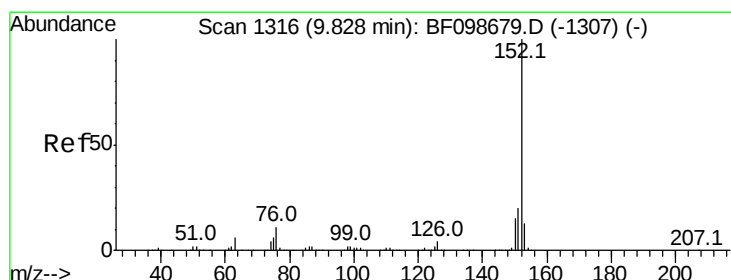
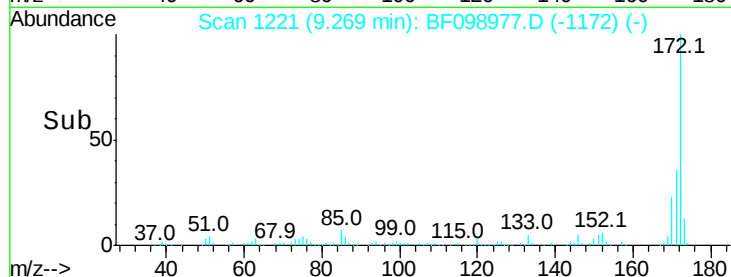
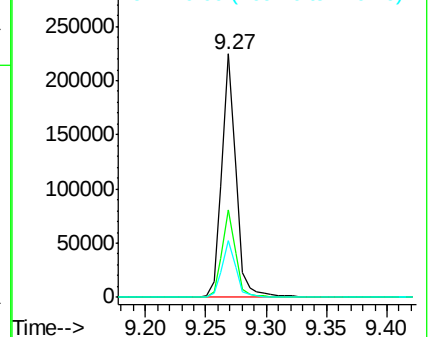
170 23.3 19.6 29.4



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: 2.713 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

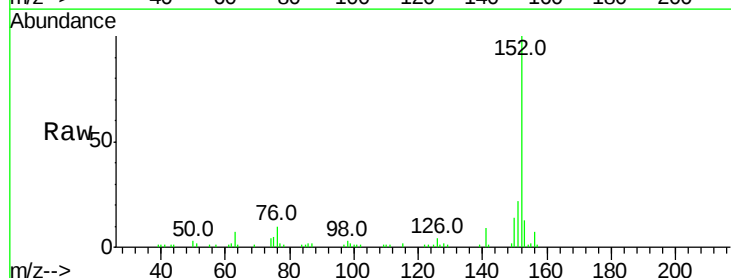
Tgt Ion:152 Resp: 47560

Ion Ratio Lower Upper

152 100

151 21.8 16.3 24.5

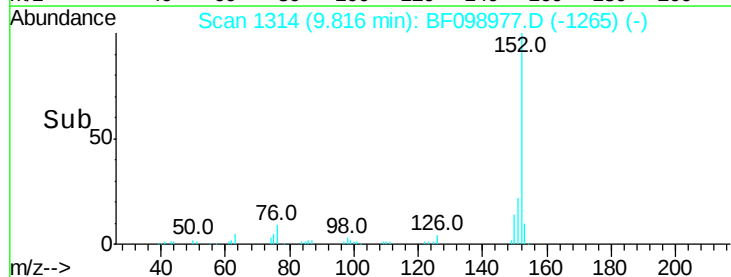
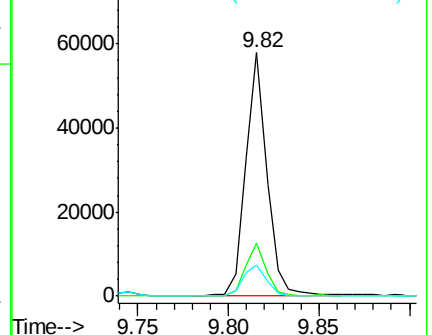
153 12.7 10.7 16.1

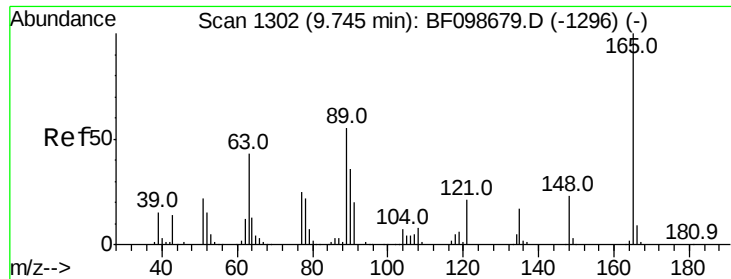


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

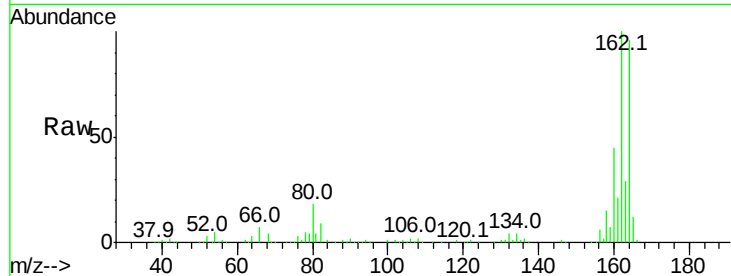




#50
 2,6-Dinitrotoluene
 Concen: 7.922 ng
 RT: 9.96 min Scan# 1338
 Delta R.T. 0.22 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :

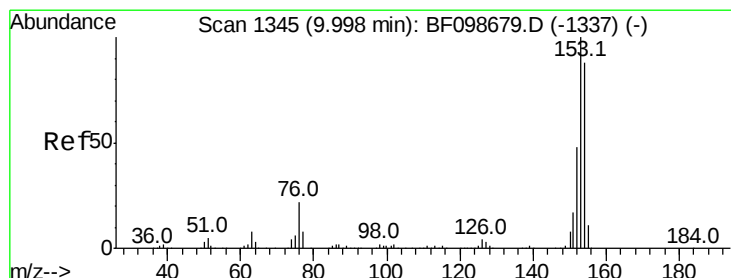
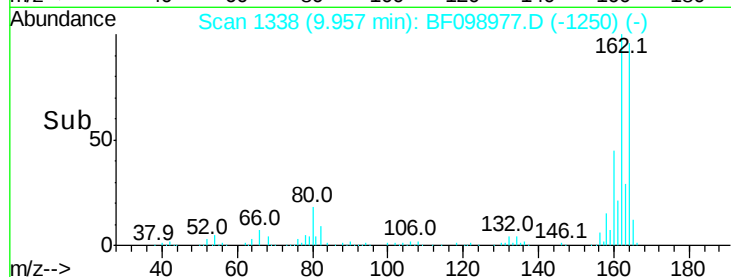
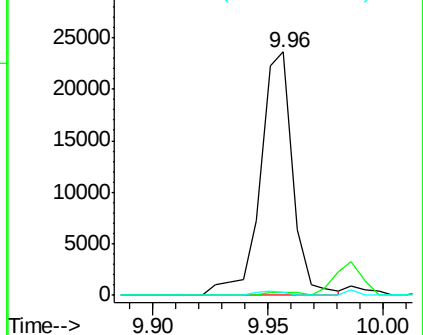
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	44.7	67.1#
89	1.4	44.0	66.0#



Abundance Ion 165.00 (164.70 to 165.70): E

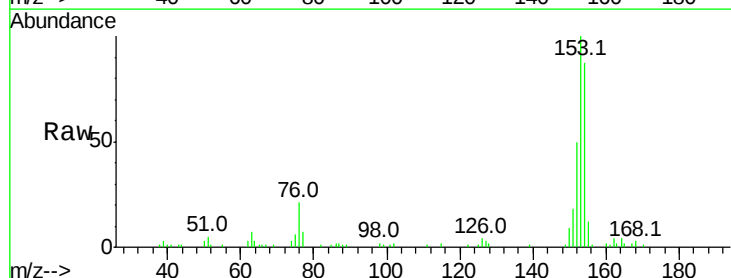
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
 Acenaphthene
 Concen: 3.170 ng
 RT: 9.99 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

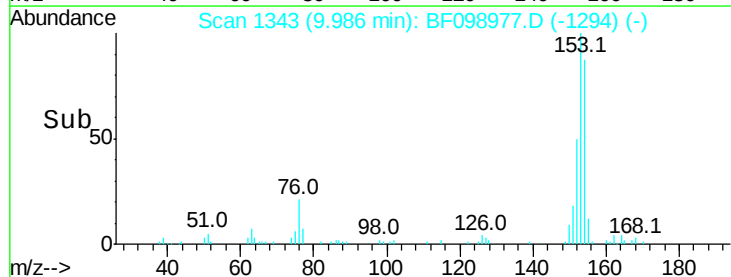
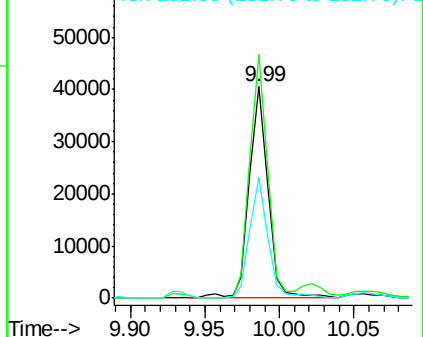
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.3	91.2	136.8
152	57.2	43.8	65.8

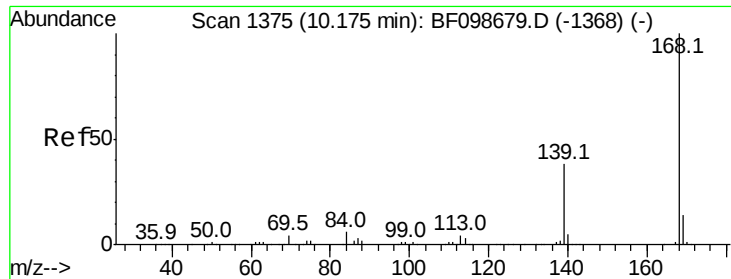


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 2.036 ng

RT: 10.16 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampleId :

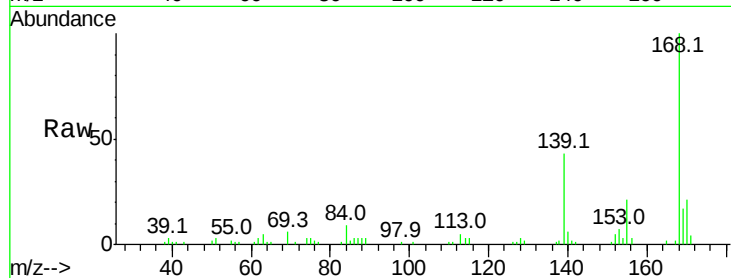
Tot Ion:168 Resp: 30100

Ion Ratio Lower Upper

168 100

139 42.5 30.1 45.1

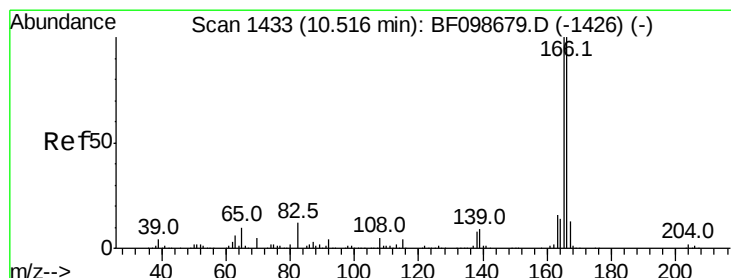
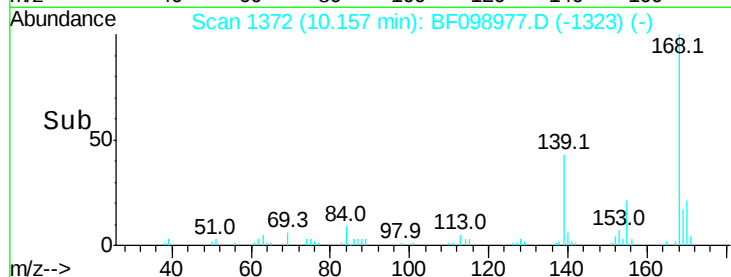
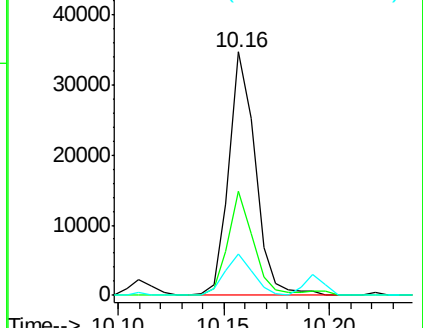
169 16.8 10.9 16.3#



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



#57

Fluorene

Concen: 5.761 ng

RT: 10.50 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

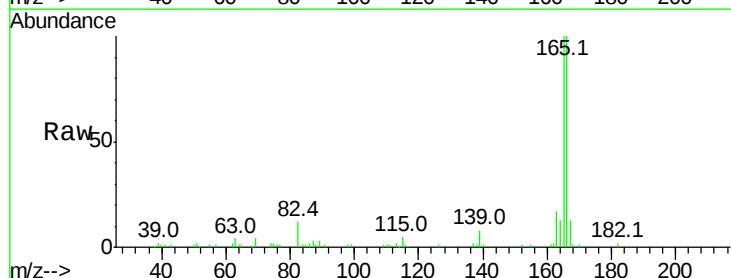
Tgt Ion:166 Resp: 68474

Ion Ratio Lower Upper

166 100

165 99.7 79.8 119.8

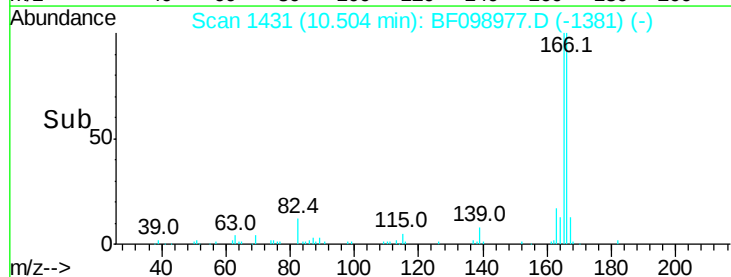
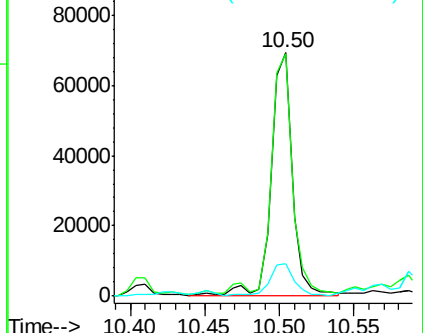
167 13.4 10.6 16.0

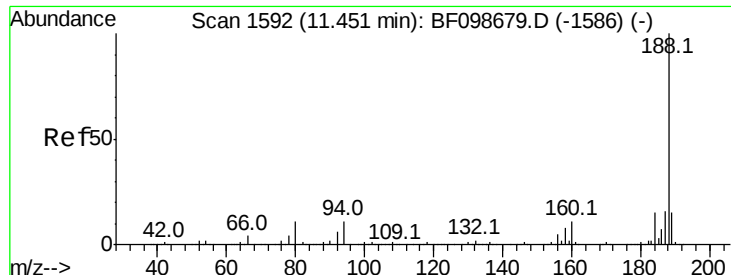


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

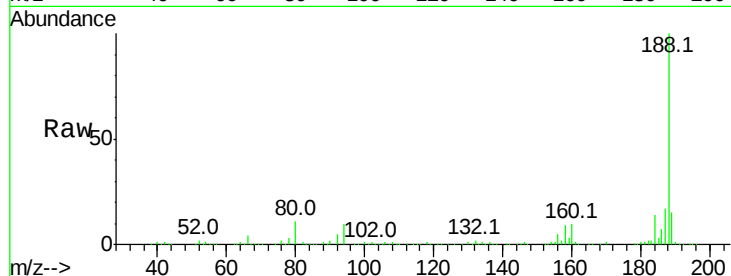




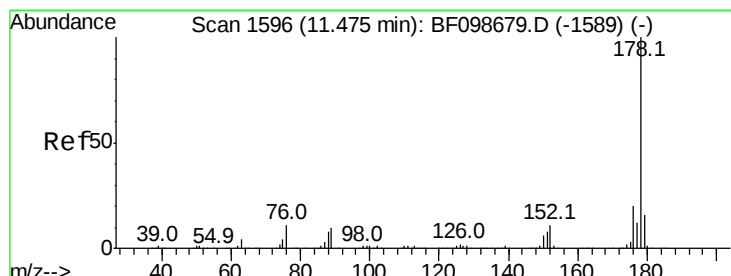
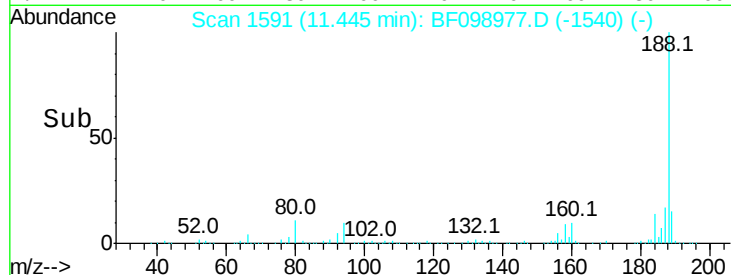
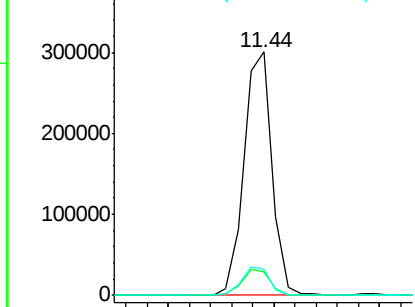
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1591
 Delta R.T. -0.00 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:188 Resp: 275521
 Ion Ratio Lower Upper
 188 100
 94 9.8 8.5 12.7
 80 10.8 9.2 13.8

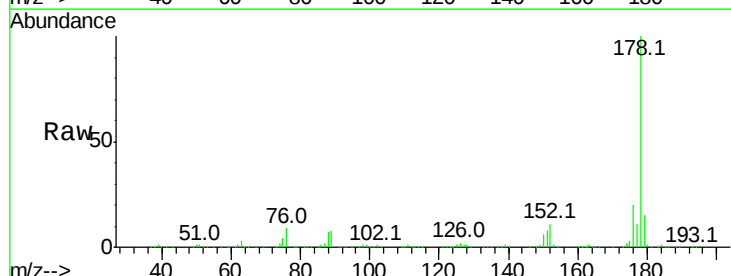


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

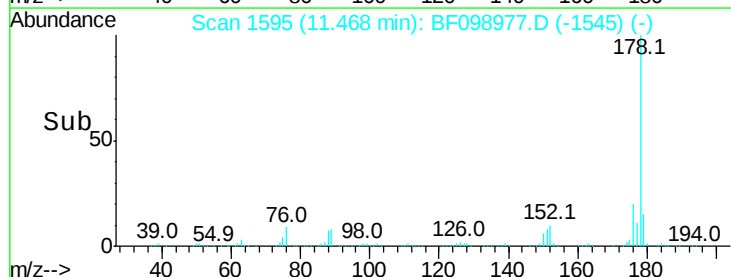
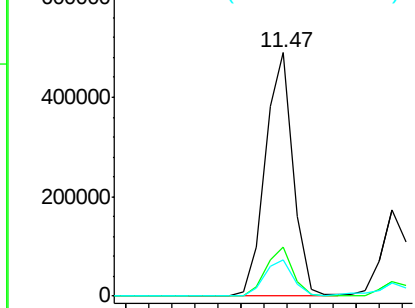


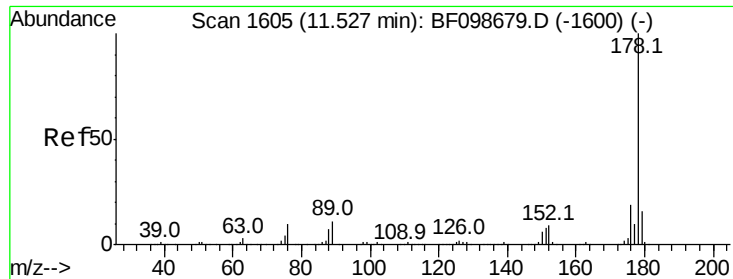
#70
 Phenanthrene
 Concen: 27.729 ng
 RT: 11.47 min Scan# 1595
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion:178 Resp: 408939
 Ion Ratio Lower Upper
 178 100
 176 19.9 15.8 23.8
 179 15.0 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

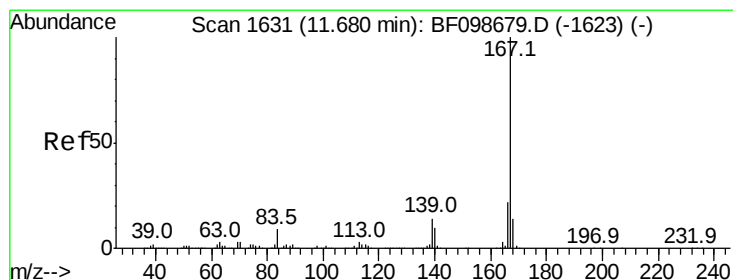
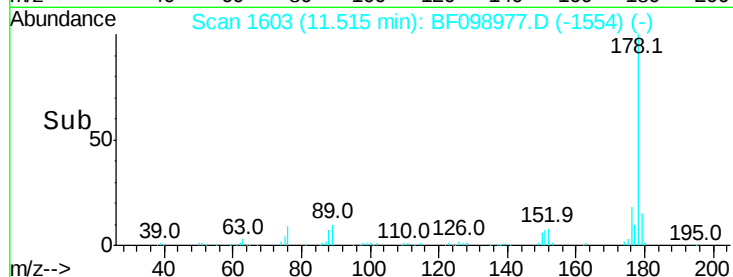
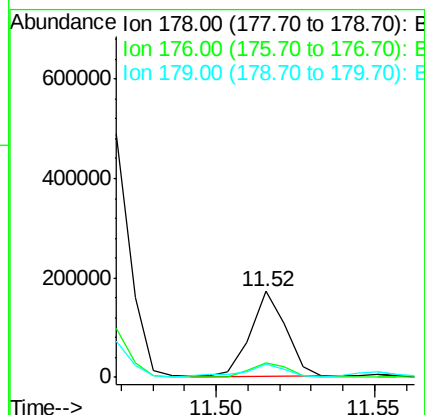
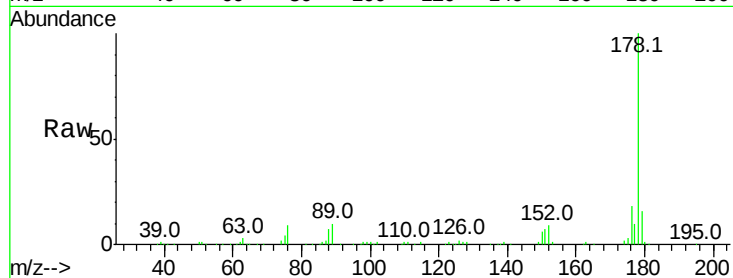




#71
 Anthracene
 Concen: 8.780 ng
 RT: 11.52 min Scan# 1603
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

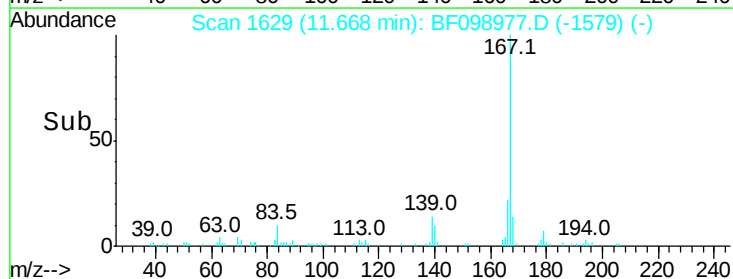
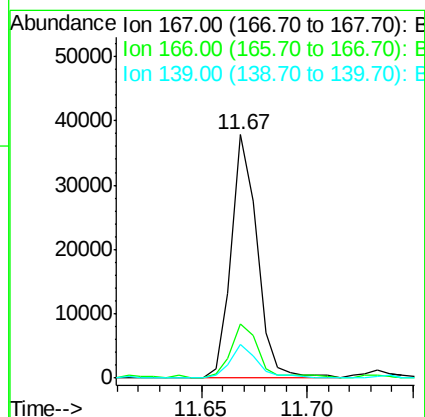
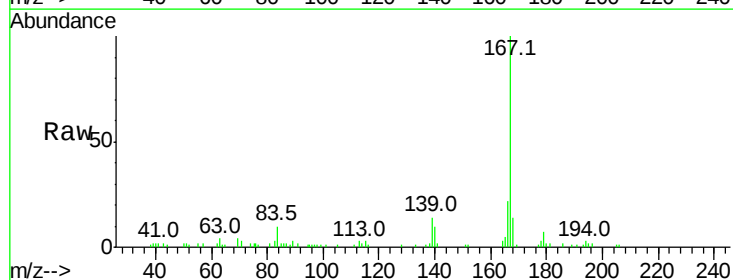
Instrument :
 BNA_F
 ClientSampleId :

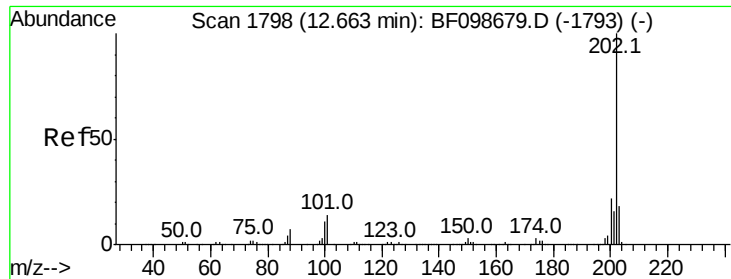
Tot Ion:178 Resp: 132486
 Ion Ratio Lower Upper
 178 100
 176 17.6 15.4 23.2
 179 15.5 12.6 19.0



#72
 Carbazole
 Concen: 2.167 ng
 RT: 11.67 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion:167 Resp: 32029
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.6 26.4
 139 13.8 10.9 16.3





#74

Fluoranthene

Concen: 35.672 ng

RT: 12.66 min Scan# 1797

Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampleId :

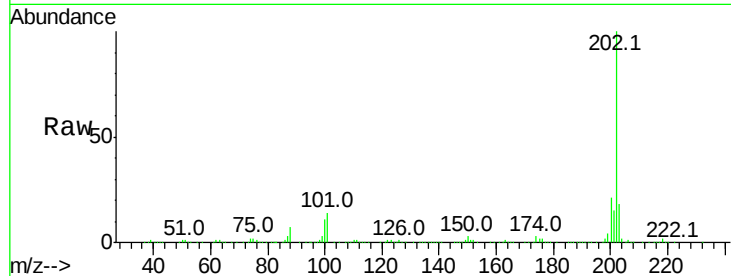
Tot Ion:202 Resp: 532724

Ion Ratio Lower Upper

202 100

101 14.0 0.0 34.1

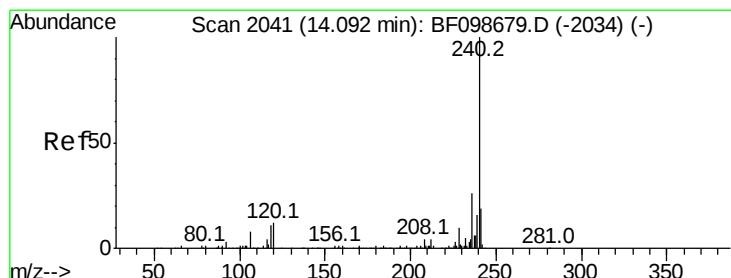
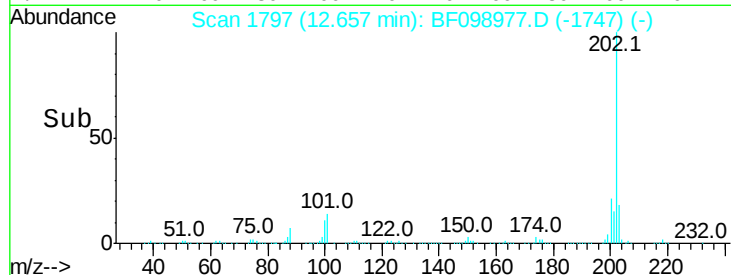
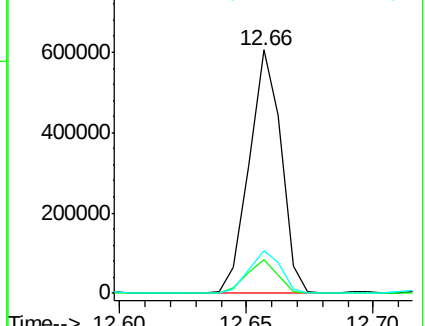
203 17.8 0.0 38.1



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: 14.09 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

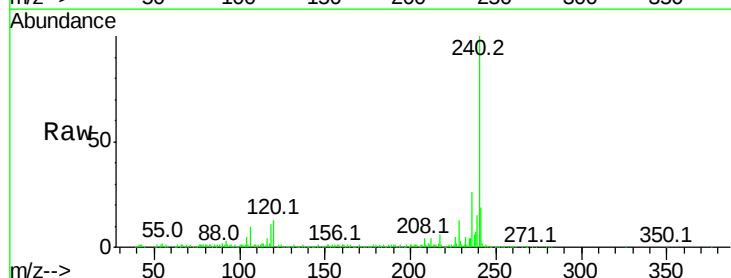
Tgt Ion:240 Resp: 242202

Ion Ratio Lower Upper

240 100

120 13.2 9.5 14.3

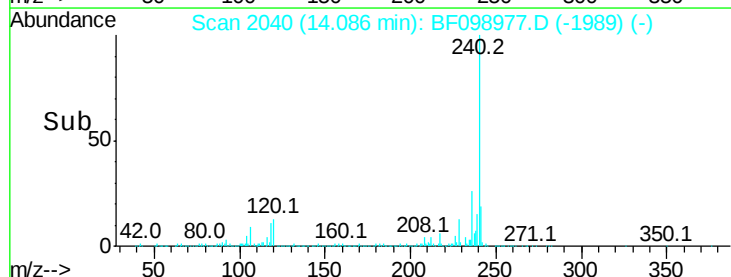
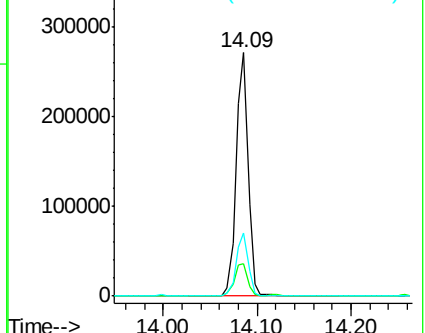
236 26.0 20.7 31.1

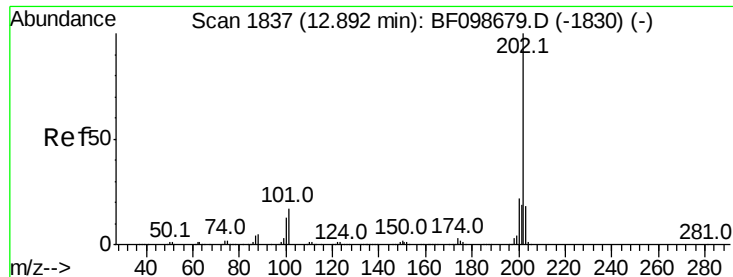


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.593 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF098977.D

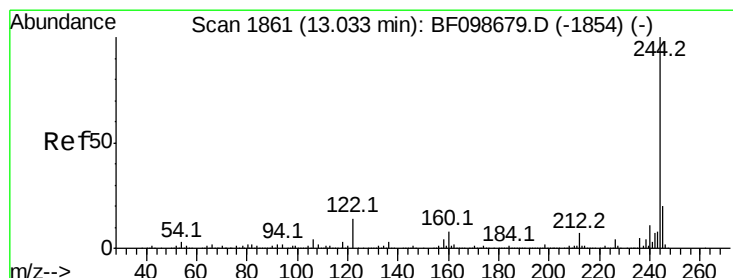
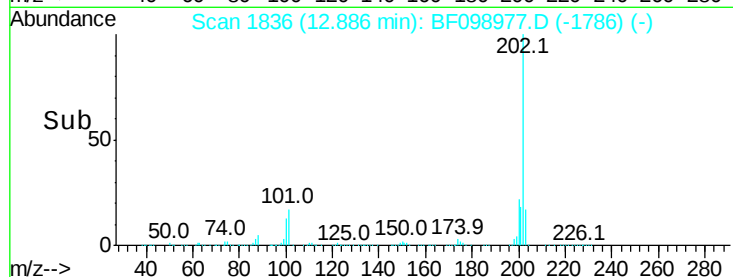
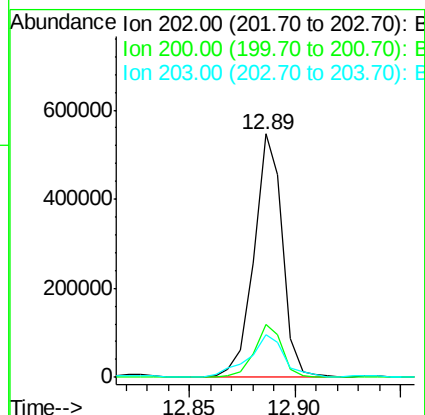
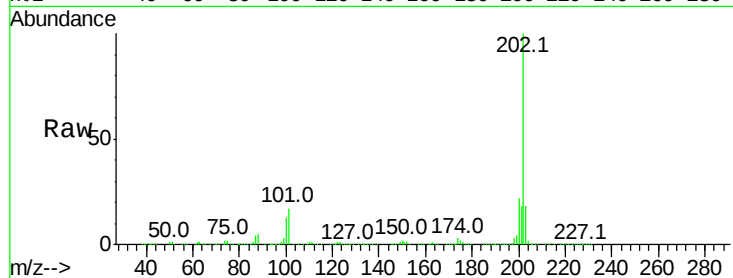
Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	509604
Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	17.5	14.3	21.5



#78

Terphenyl-d14

Concen: 12.626 ng

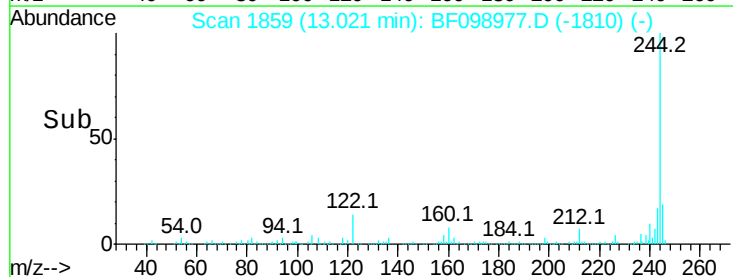
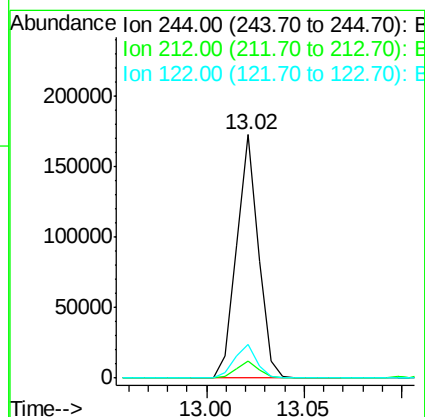
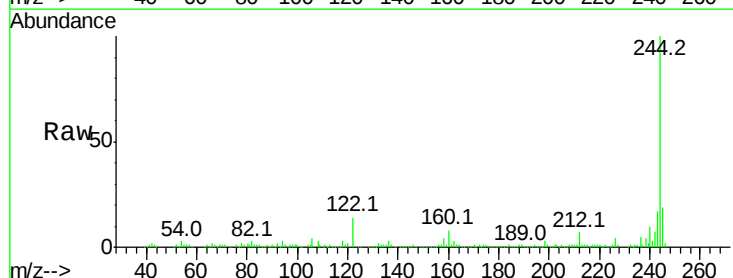
RT: 13.02 min Scan# 1859

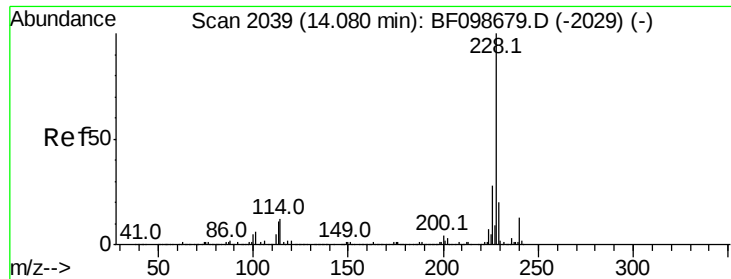
Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Tgt Ion:	244	Resp:	134469
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	13.6	11.0	16.4

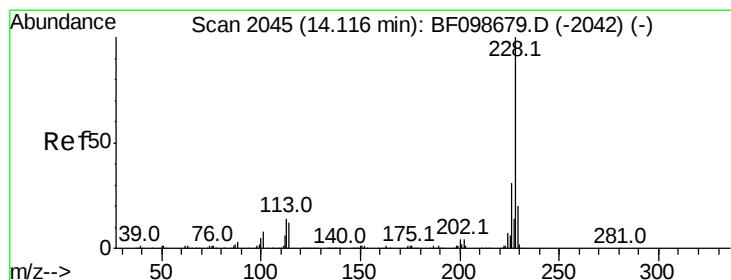
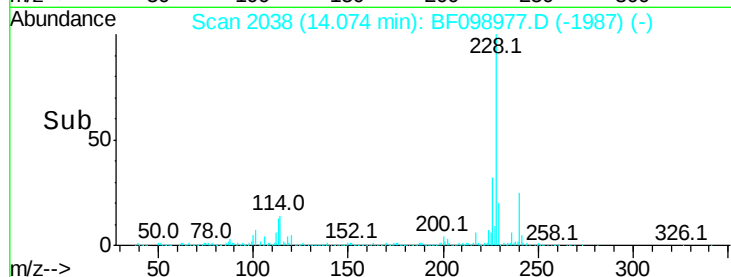
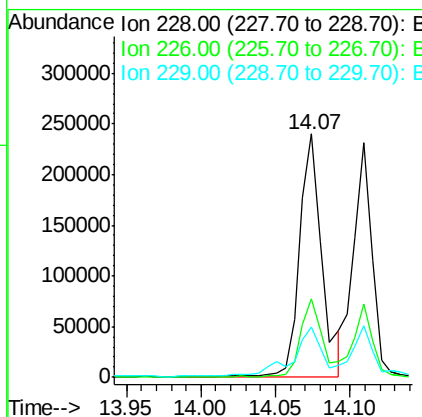
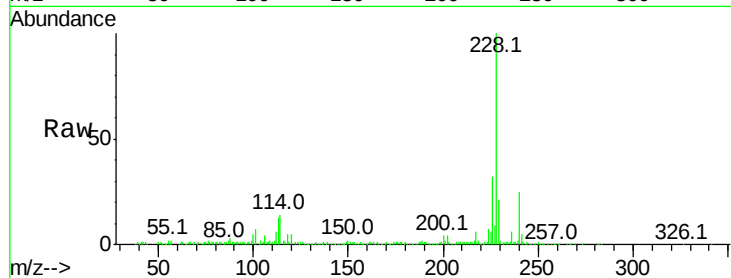




#80
Benzo(a)anthracene
Concen: 17.047 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

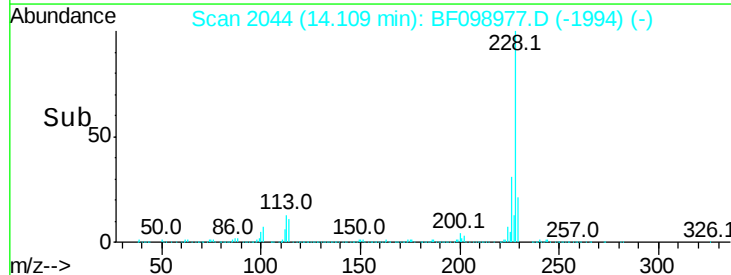
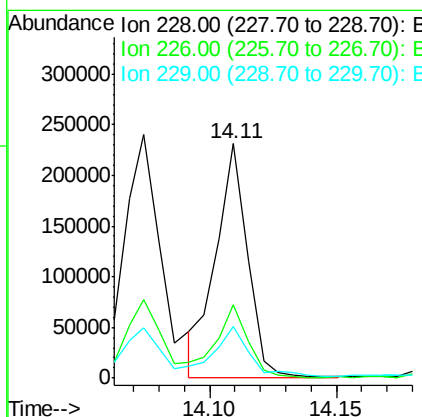
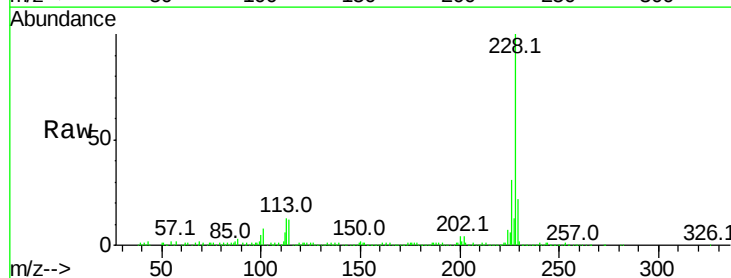
Instrument :
BNA_F
ClientSampleId :

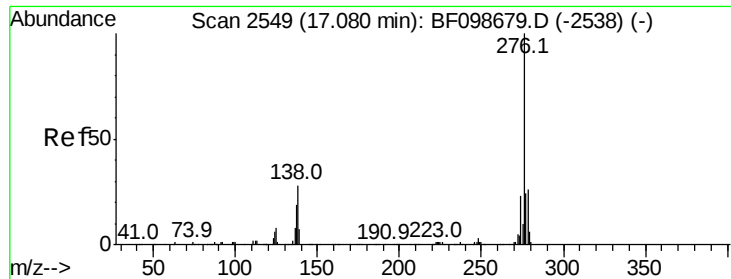
Tot Ion:228 Resp: 250014
Ion Ratio Lower Upper
228 100
226 32.2 22.6 33.8
229 20.8 15.8 23.6



#82
Chrysene
Concen: 14.309 ng
RT: 14.11 min Scan# 2044
Delta R.T. -0.01 min
Lab File: BF098977.D
Acq: 30 Sep 2017 21:58

Tgt Ion:228 Resp: 199795
Ion Ratio Lower Upper
228 100
226 31.3 25.0 37.6
229 22.1 16.2 24.4

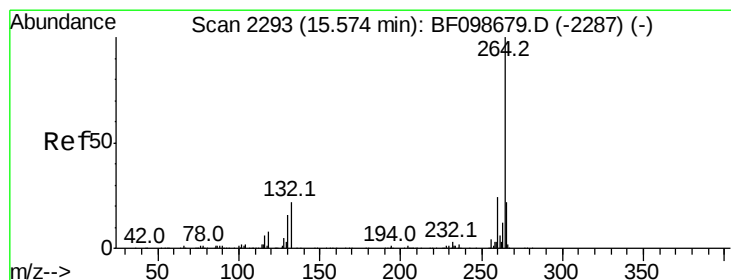
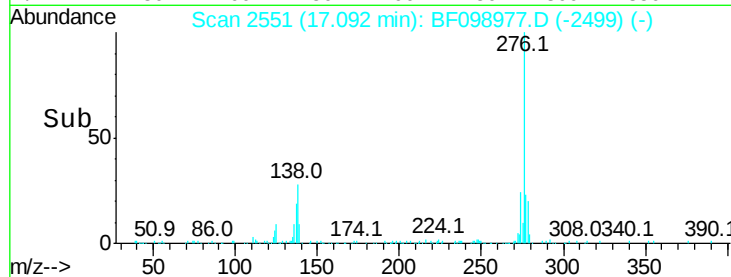
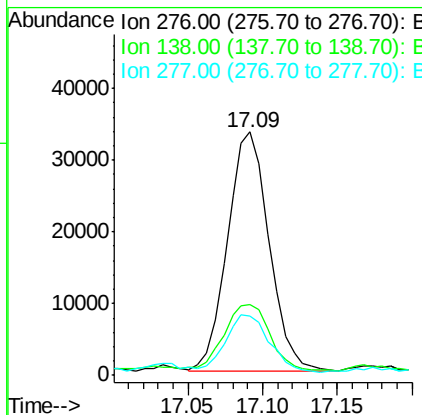
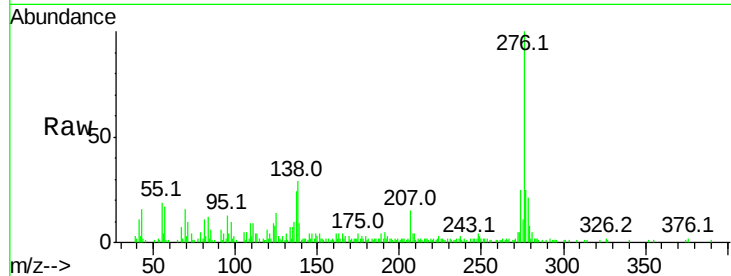




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.820 ng
 RT: 17.09 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

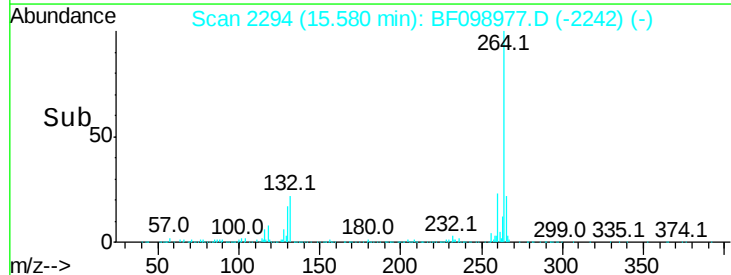
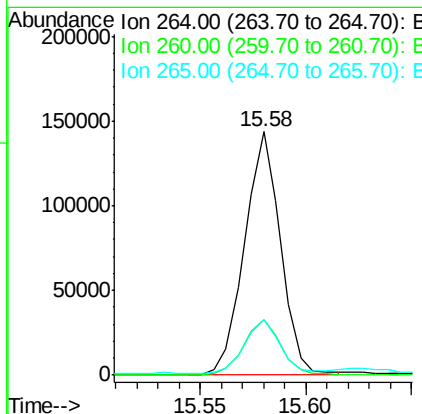
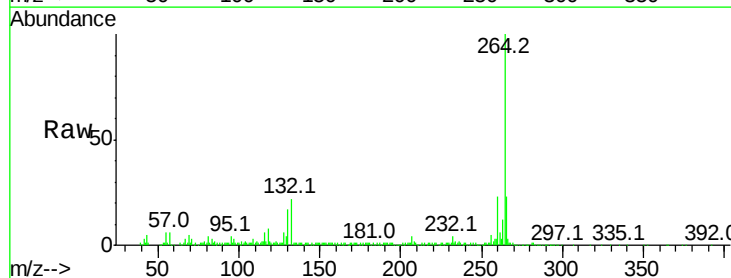
Instrument :
 BNA_F
 ClientSampleId :

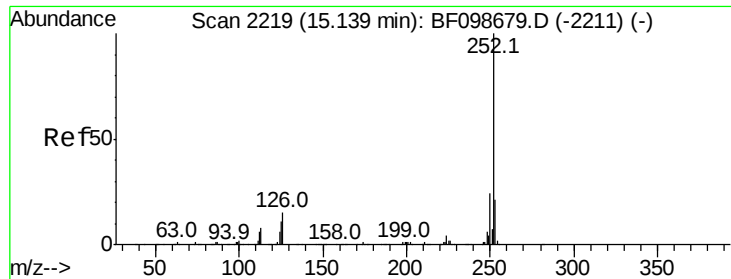
Tot Ion:276 Resp: 65000
 Ion Ratio Lower Upper
 276 100
 138 29.4 25.0 37.6
 277 24.7 20.1 30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.58 min Scan# 2294
 Delta R.T. 0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Tgt Ion:264 Resp: 168045
 Ion Ratio Lower Upper
 264 100
 260 22.7 19.2 28.8
 265 22.5 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 24.410 ng

RT: 15.14 min Scan# 2219

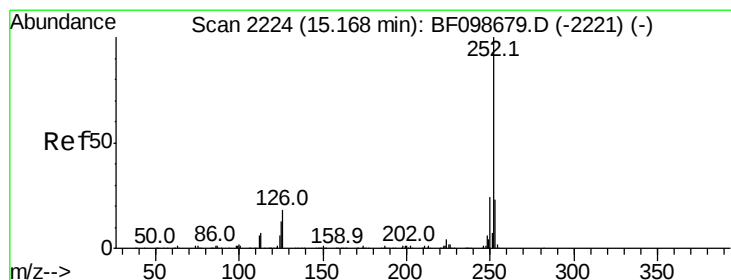
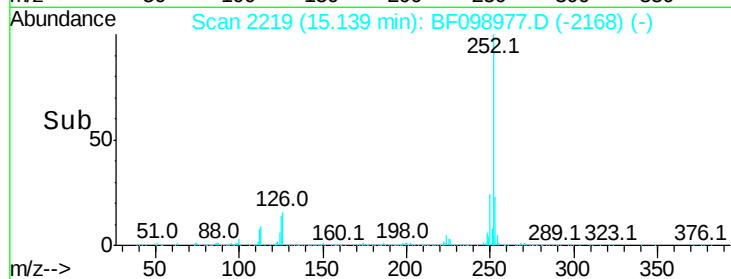
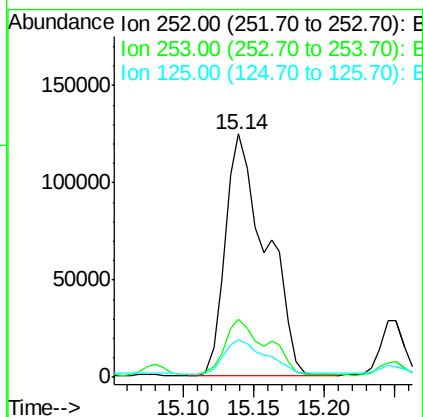
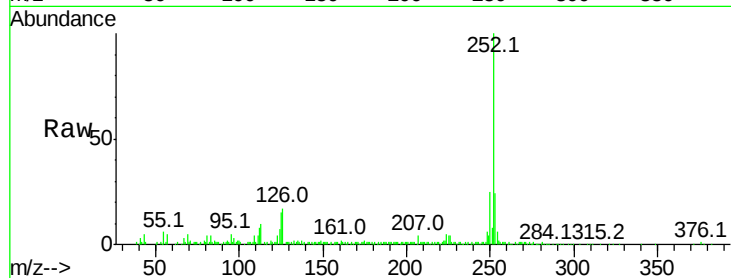
Delta R.T. -0.00 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.6
125	15.3	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 24.714 ng

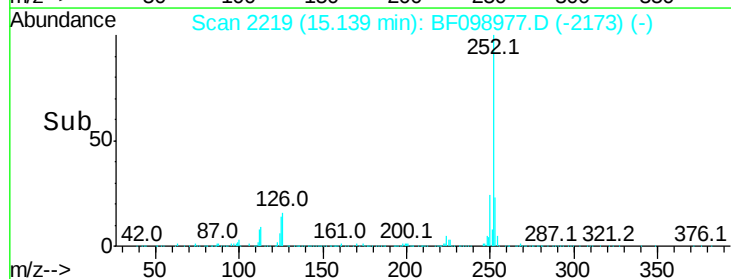
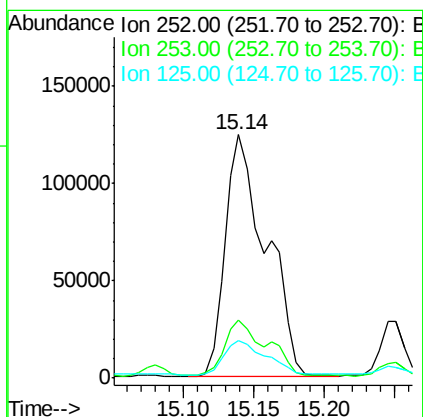
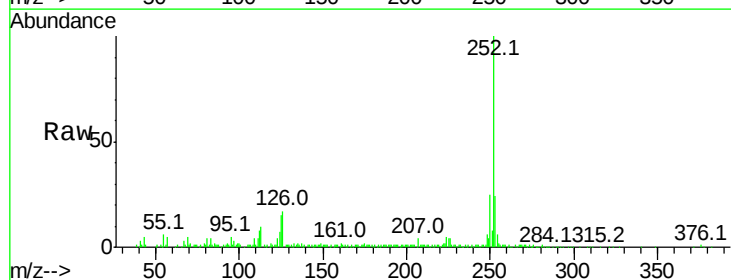
RT: 15.14 min Scan# 2219

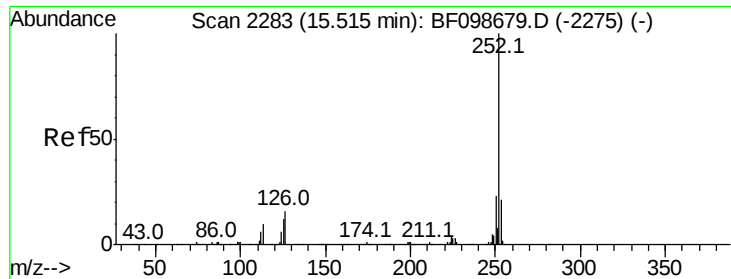
Delta R.T. -0.03 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	15.3	10.2	15.2





#89

Benzo(a)pyrene

Concen: 13.971 ng

RT: 15.52 min Scan# 2283

Delta R.T. -0.00 min

Lab File: BF098977.D

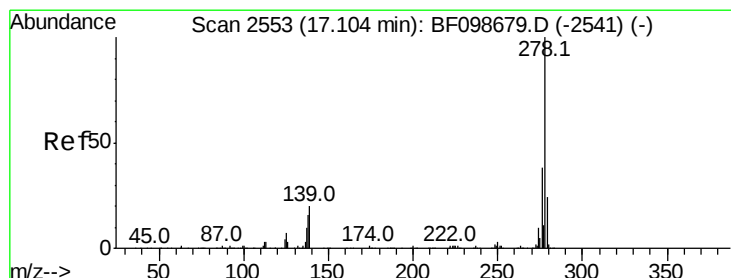
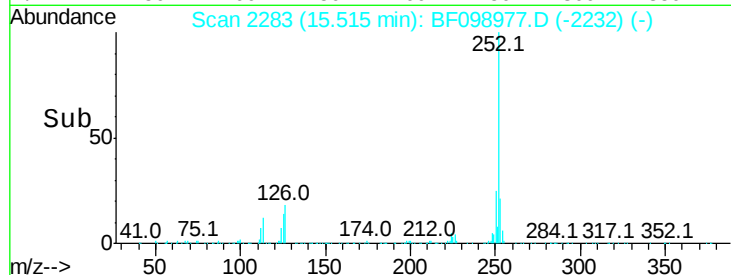
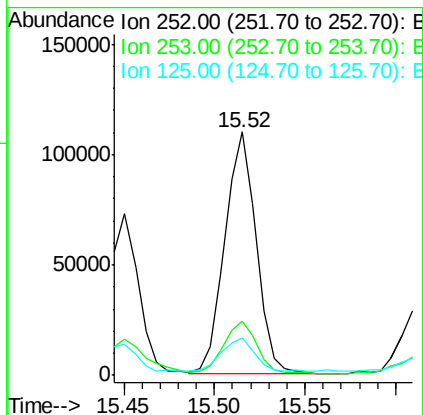
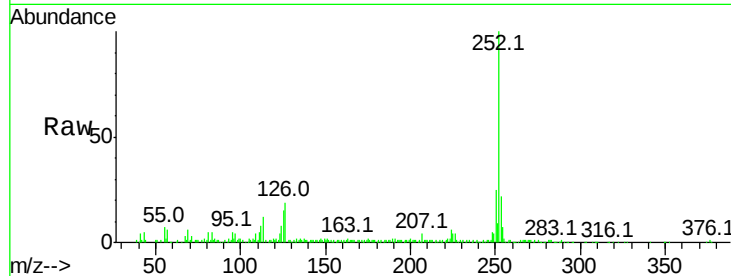
Acq: 30 Sep 2017 21:58

Instrument :

BNA_F

ClientSampled :

Tot Ion:	252	Resp:	132503
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	15.4	9.8	14.6#



#90

Dibenzo(a,h)anthracene

Concen: 2.235 ng

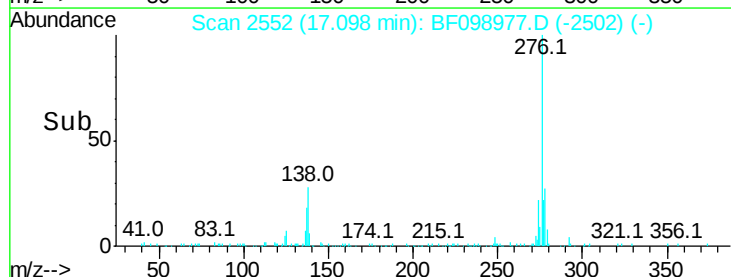
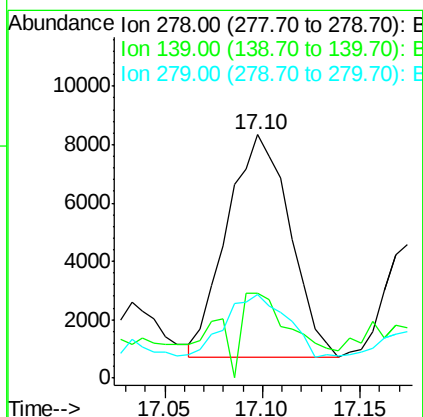
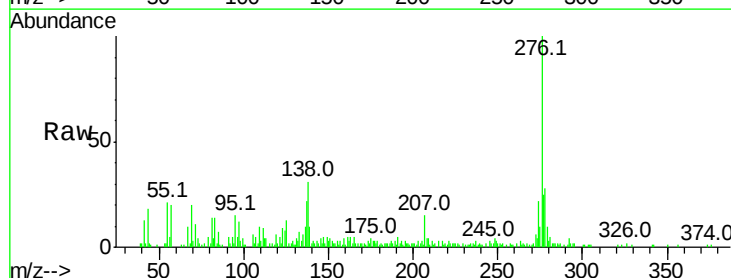
RT: 17.10 min Scan# 2552

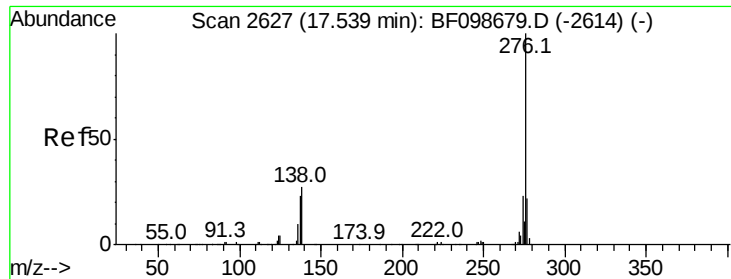
Delta R.T. -0.01 min

Lab File: BF098977.D

Acq: 30 Sep 2017 21:58

Tgt Ion:	278	Resp:	16961
Ion	Ratio	Lower	Upper
278	100		
139	35.1	15.9	23.9#
279	34.4	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 8.174 ng
 RT: 17.55 min Scan# 2629
 Delta R.T. 0.01 min
 Lab File: BF098977.D
 Acq: 30 Sep 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	32.8	21.8	32.8

