

Data Path : Z:\HPCHEM1\BNA F\Data\BF012015\
 Data File : BF076985.D
 Acq On : 21 Jan 2015 5:22
 Operator : IZ / TP
 Sample : G1076-01DL 5X
 Misc : W
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 21 06:24:19 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 21 04:28:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	24868	20.00	ng	0.00
21) Naphthalene-d8	10.81	136	111622	20.00	ng	-0.01
38) Acenaphthene-d10	14.95	164	57218	20.00	ng	0.00
63) Phenanthrene-d10	17.73	188	98509	20.00	ng	-0.01
75) Chrysene-d12	21.24	240	92287	20.00	ng	0.00
86) Perylene-d12	22.88	264	89821	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	4.97	112	33766	22.32	ng	0.01
7) Phenol-d6	7.32	99	47746	25.02	ng	0.00
23) Nitrobenzene-d5	9.20	82	29024	14.41	ng	-0.01
41) 2,4,6-Tribromophenol	16.63	330	6376	13.73	ng	-0.01
44) 2-Fluorobiphenyl	13.47	172	57527	15.30	ng	-0.01
78) Terphenyl-d14	19.96	244	58110	14.50	ng	-0.01

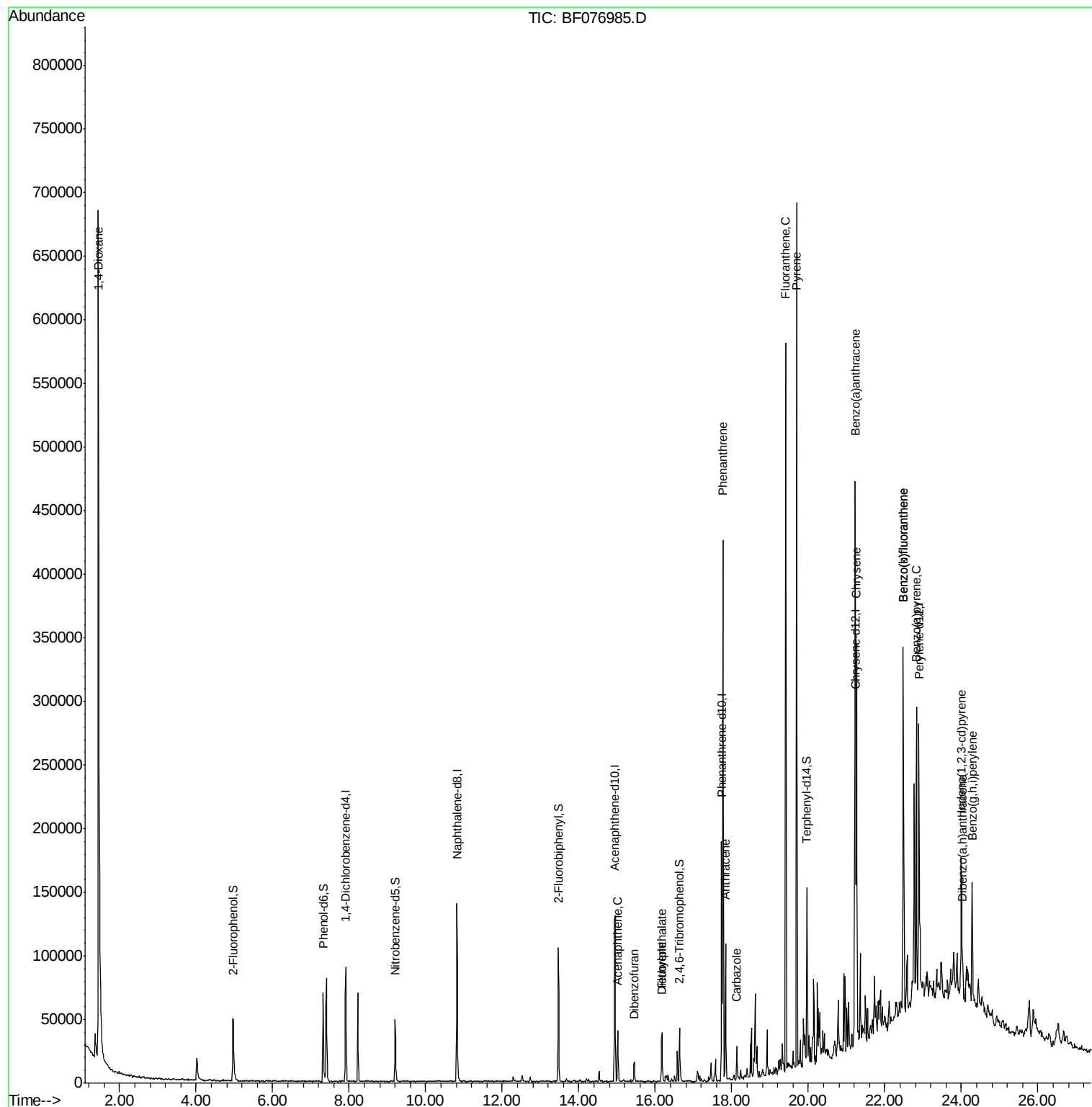
Target Compounds						Qvalue
2) 1,4-Dioxane	1.44	88	26394	40.75	ng	# 12
51) Acenaphthene	15.02	154	15551	4.66	ng	97
54) Dibenzofuran	15.44	168	12963	2.66	ng	95
57) Fluorene	16.17	166	15370	3.73	ng	# 83
59) Diethylphthalate	16.16	149	9143	2.23	ng	# 93
70) Phenanthrene	17.76	178	222227	36.17	ng	99
71) Anthracene	17.84	178	51752	8.64	ng	98
72) Carbazole	18.13	167	15307	2.63	ng	97
74) Fluoranthene	19.41	202	329398	52.33	ng	98
77) Pyrene	19.69	202	284223	44.94	ng	# 95
80) Benzo(a)anthracene	21.23	228	143807	24.84	ng	98
82) Chrysene	21.26	228	106038	20.08	ng	99
85) Indeno(1,2,3-cd)pyrene	23.99	276	67987	12.15	ng	# 86
87) Benzo(b)fluoranthene	22.47	252	215635	35.64	ng	99
88) Benzo(k)fluoranthene	22.47	252	213087	40.32	ng	# 97
89) Benzo(a)pyrene	22.83	252	107670	20.18	ng	98
90) Dibenzo(a,h)anthracene	24.01	278	18779	3.84	ng	# 89
91) Benzo(g,h,i)perylene	24.29	276	65802	13.52	ng	95

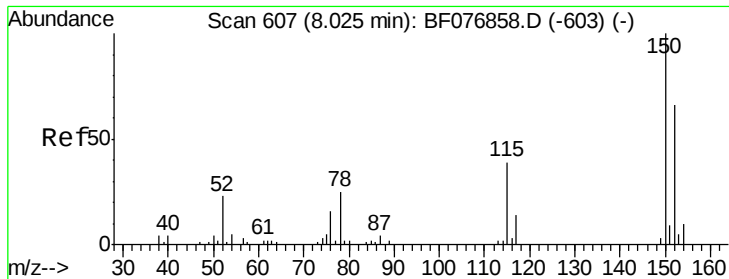
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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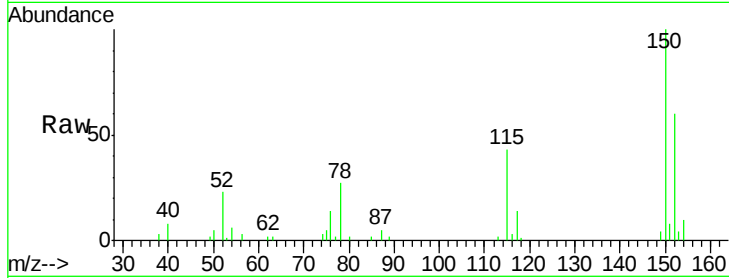


#1

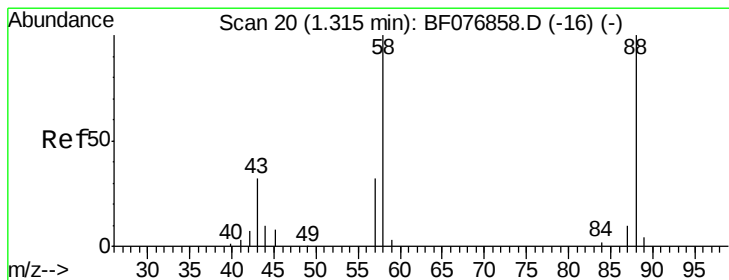
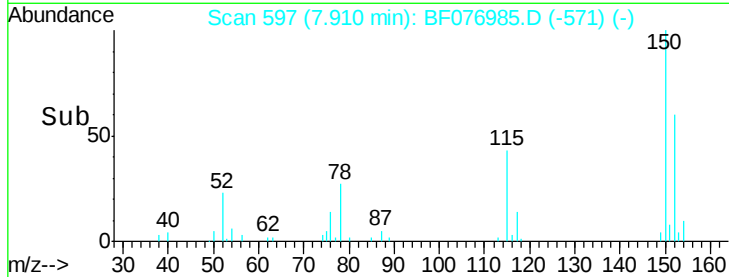
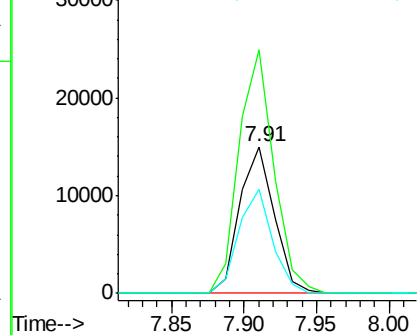
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.91 min Scan# 597
Delta R.T. 0.00 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 24868
Ion Ratio Lower Upper
152 100
150 166.3 121.7 182.5
115 70.9 47.0 70.6#



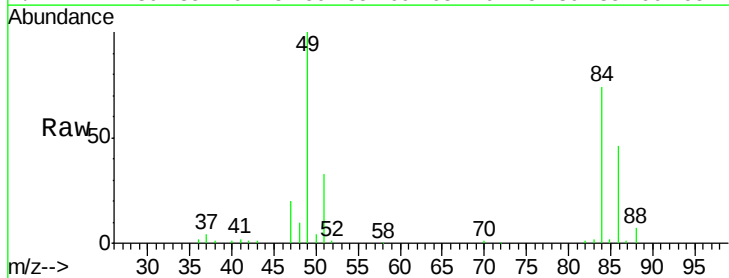
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



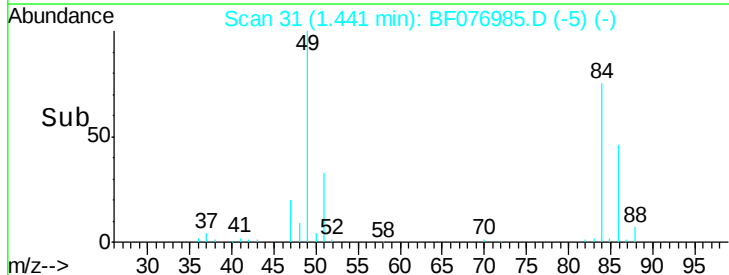
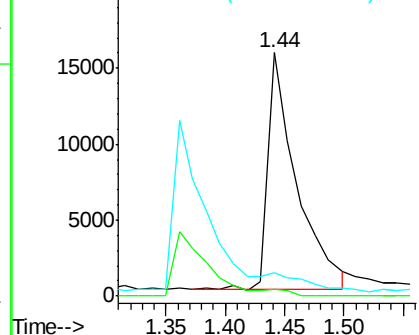
#2

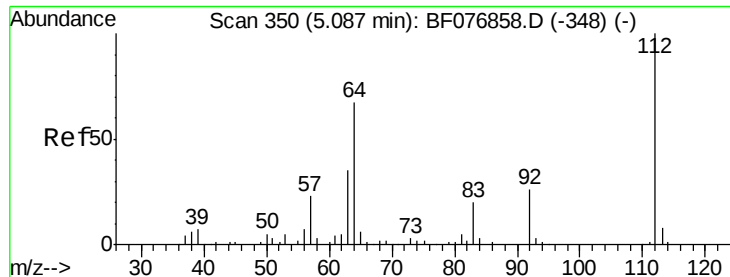
1,4-Dioxane
Concen: 40.75 ng
RT: 1.44 min Scan# 31
Delta R.T. 0.19 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Tgt Ion: 88 Resp: 26394
Ion Ratio Lower Upper
88 100
58 0.0 77.0 115.4#
43 0.0 25.6 38.4#



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 22.32 ng

RT: 4.97 min Scan# 340

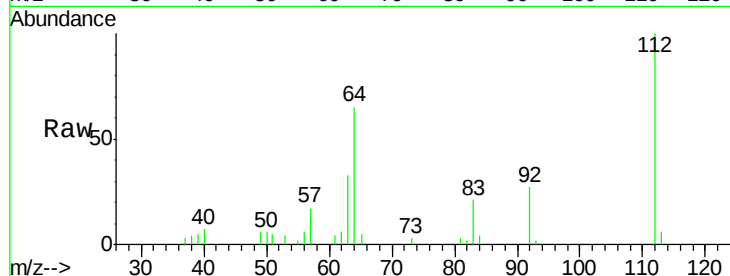
Delta R.T. 0.01 min

Lab File: BF076985.D

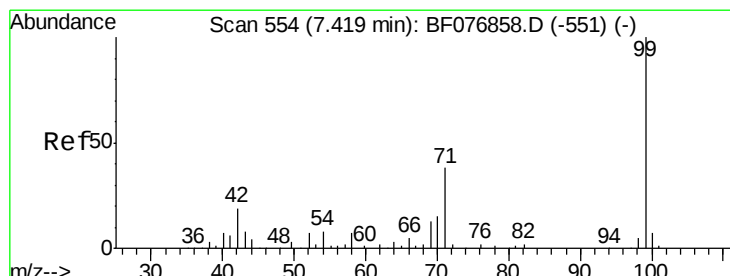
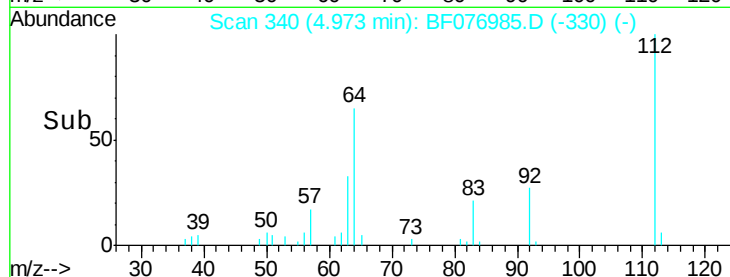
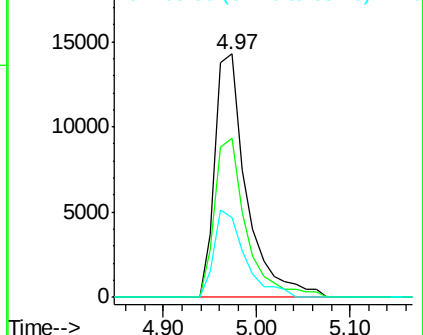
Acq: 21 Jan 2015 5:22

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	112	Resp:	33766
Ion	Ratio	Lower	Upper
112	100		
64	65.1	54.2	81.4
63	32.9	28.4	42.6



Abundance Ion 112.00 (111.70 to 112.70): E



#7

Phenol-d6

Concen: 25.02 ng

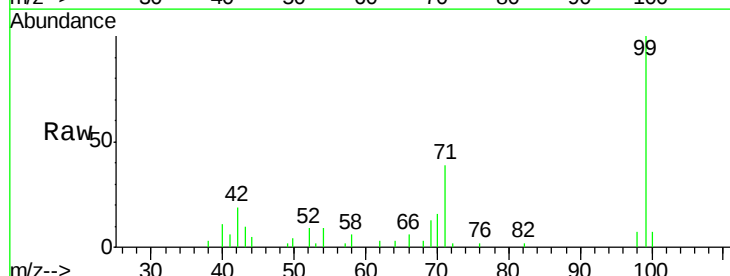
RT: 7.32 min Scan# 545

Delta R.T. 0.00 min

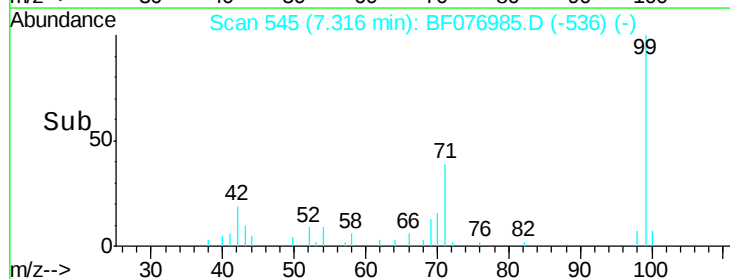
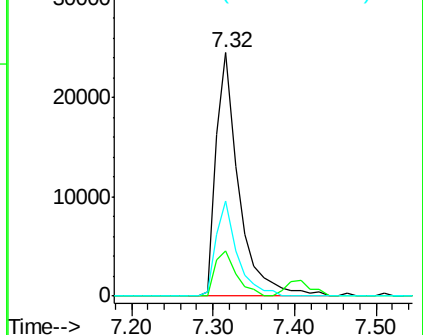
Lab File: BF076985.D

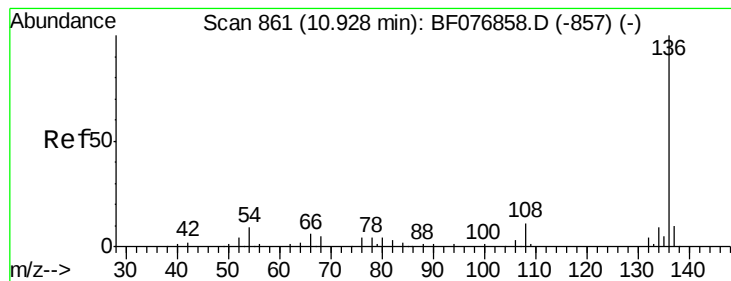
Acq: 21 Jan 2015 5:22

Tgt Ion:	99	Resp:	47746
Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.0	22.4
71	39.2	30.5	45.7



Abundance Ion 99.00 (98.70 to 99.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.81 min Scan# 851

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 111622

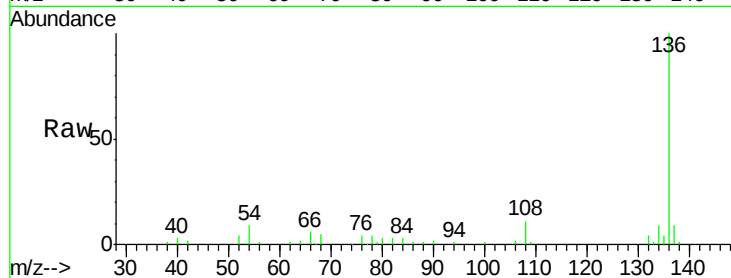
Ion Ratio Lower Upper

136 100

137 9.3 8.1 12.1

54 9.0 7.0 10.4

68 4.7 3.7 5.5

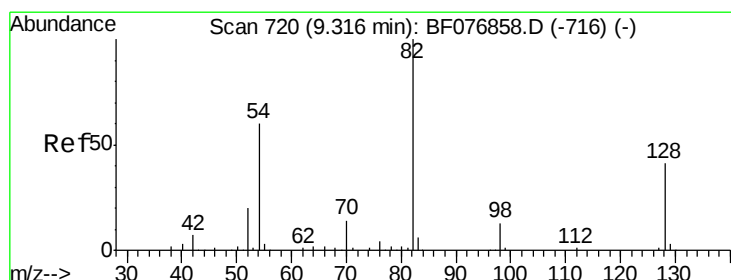
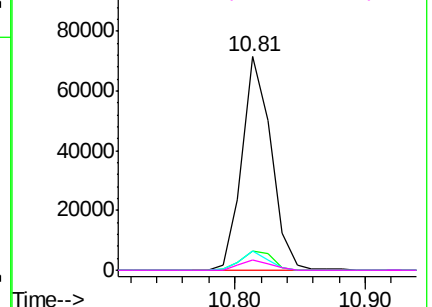
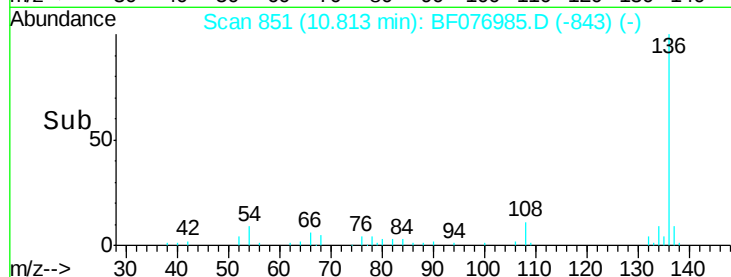


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 14.41 ng

RT: 9.20 min Scan# 710

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

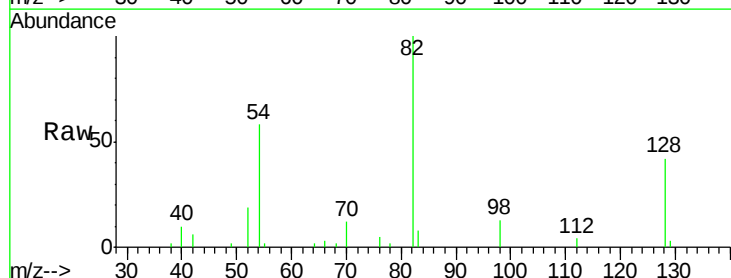
Tgt Ion: 82 Resp: 29024

Ion Ratio Lower Upper

82 100

128 42.4 33.1 49.7

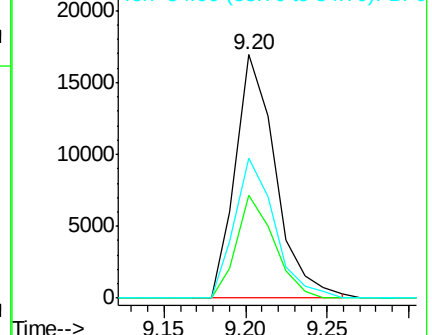
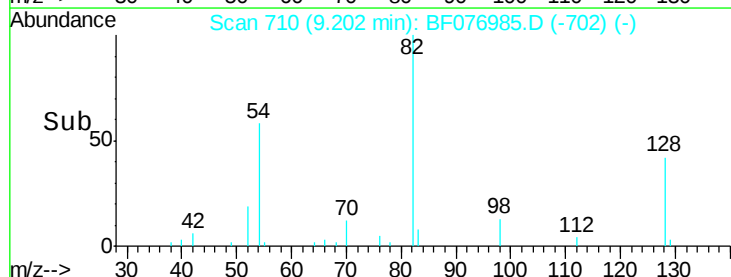
54 57.7 48.3 72.5



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

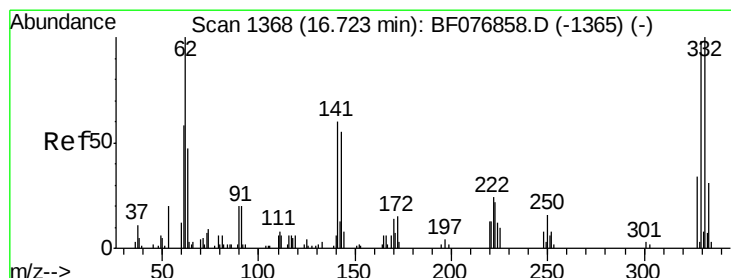
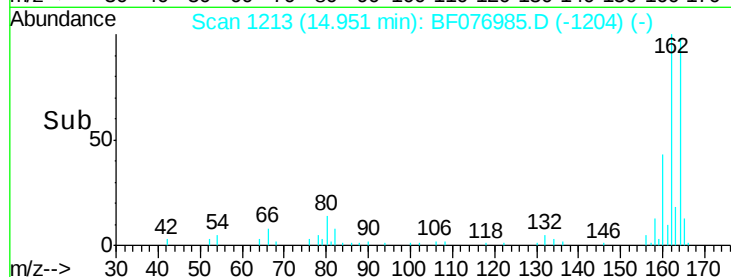
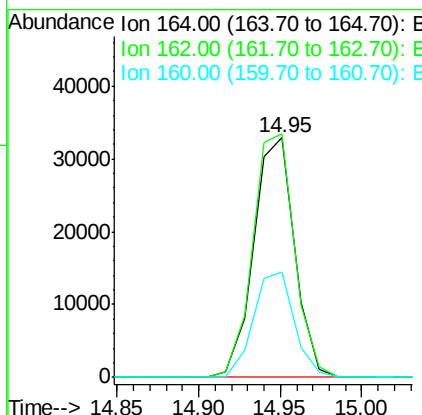
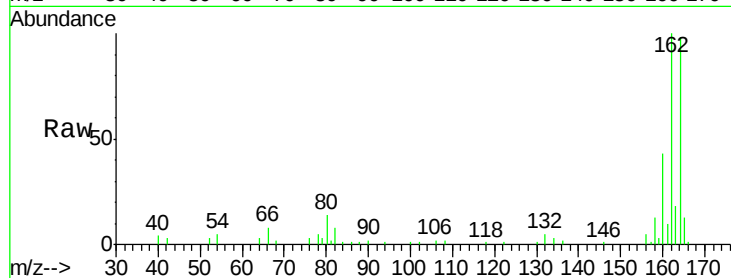




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.95 min Scan# 1213
Delta R.T. 0.00 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

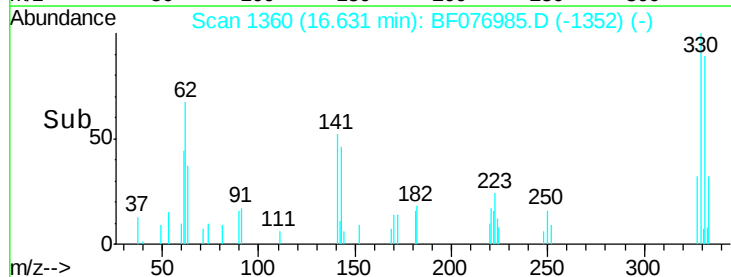
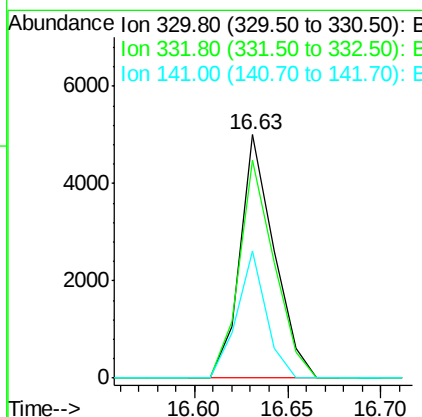
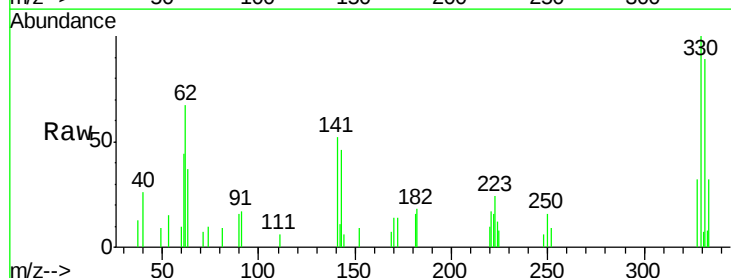
Instrument :
BNA_F
ClientSampled :

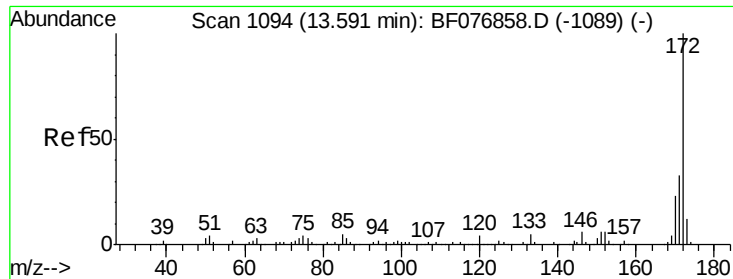
Tot Ion:164 Resp: 57218
Ion Ratio Lower Upper
164 100
162 101.6 82.4 123.6
160 43.8 34.8 52.2



#41
2,4,6-Tribromophenol
Concen: 13.73 ng
RT: 16.63 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Tgt Ion:330 Resp: 6376
Ion Ratio Lower Upper
330 100
332 92.0 77.8 116.6
141 44.5 38.5 57.7

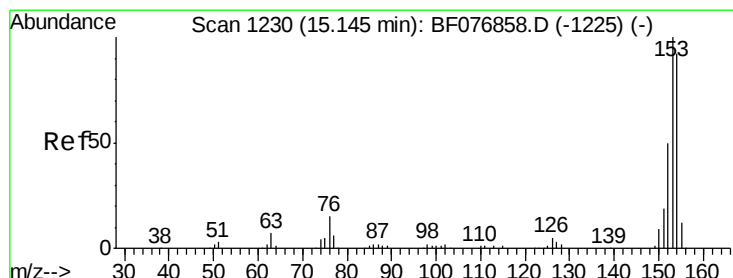
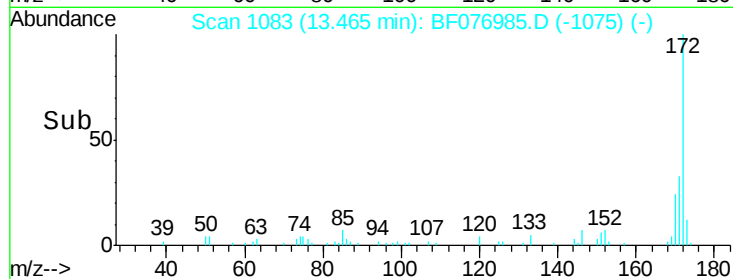
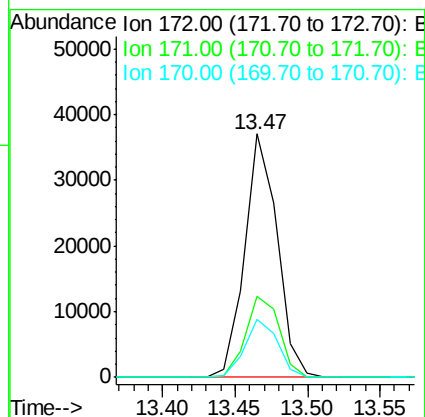
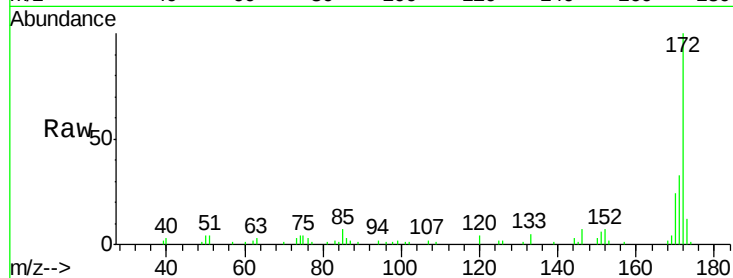




#44
 2-Fluorobiphenyl
 Concen: 15.30 ng
 RT: 13.47 min Scan# 1083
 Delta R.T. -0.01 min
 Lab File: BF076985.D
 Acq: 21 Jan 2015 5:22

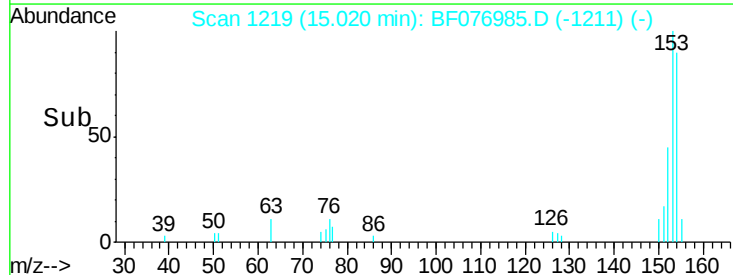
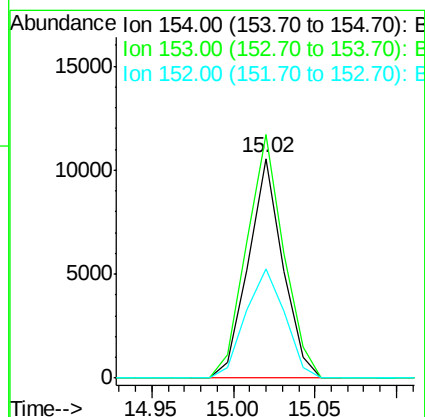
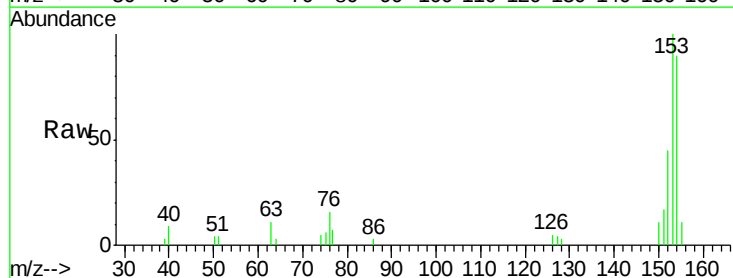
Instrument :
 BNA_F
 ClientSampleId :

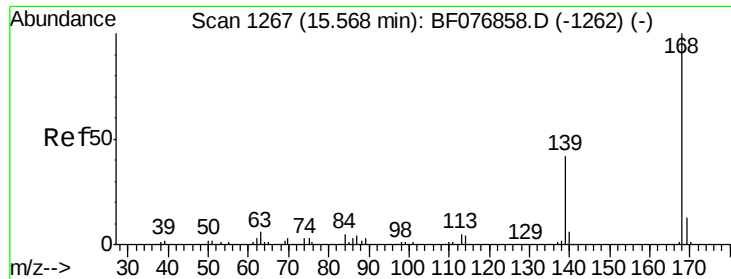
Tot Ion:172 Resp: 57527
 Ion Ratio Lower Upper
 172 100
 171 33.2 26.6 40.0
 170 23.6 18.0 27.0



#51
 Acenaphthene
 Concen: 4.66 ng
 RT: 15.02 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: BF076985.D
 Acq: 21 Jan 2015 5:22

Tgt Ion:154 Resp: 15551
 Ion Ratio Lower Upper
 154 100
 153 110.7 87.0 130.6
 152 49.6 43.5 65.3





#54

Dibenzenofuran

Concen: 2.66 ng

RT: 15.44 min Scan# 1256

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Instrument :

BNA_F

ClientSampled :

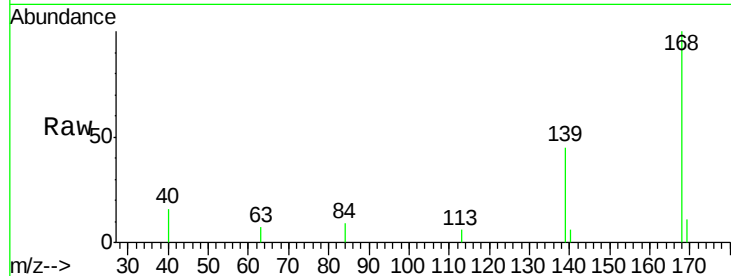
Tot Ion:168 Resp: 12963

Ion Ratio Lower Upper

168 100

139 44.6 33.4 50.2

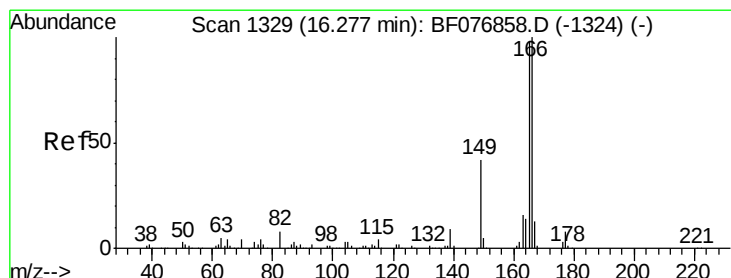
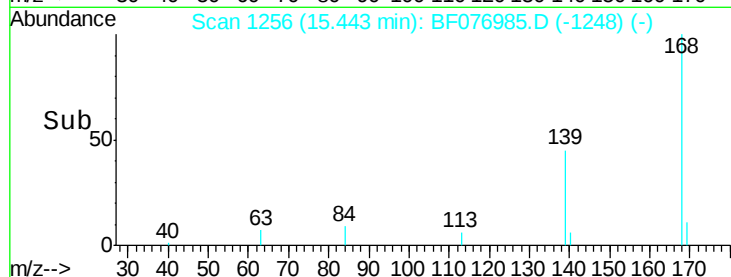
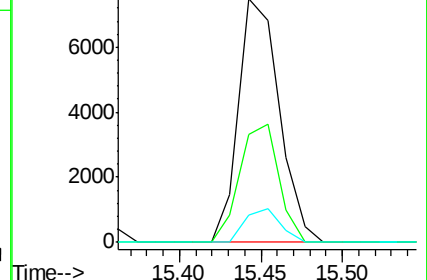
169 11.0 10.6 15.8



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: 3.73 ng

RT: 16.17 min Scan# 1320

Delta R.T. 0.00 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

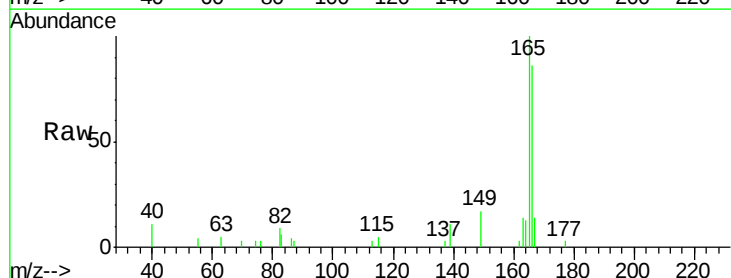
Tgt Ion:166 Resp: 15370

Ion Ratio Lower Upper

166 100

165 115.9 78.5 117.7

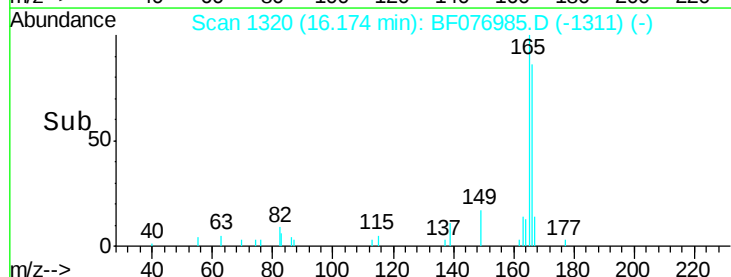
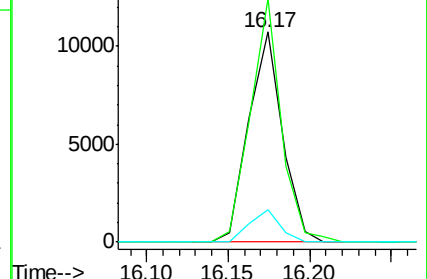
167 15.7 10.4 15.6#

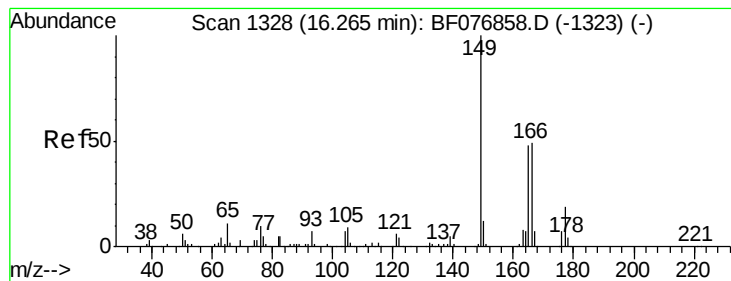


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#59

Diethylphthalate

Concen: 2.23 ng

RT: 16.16 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Instrument :

BNA_F

ClientSampleId :

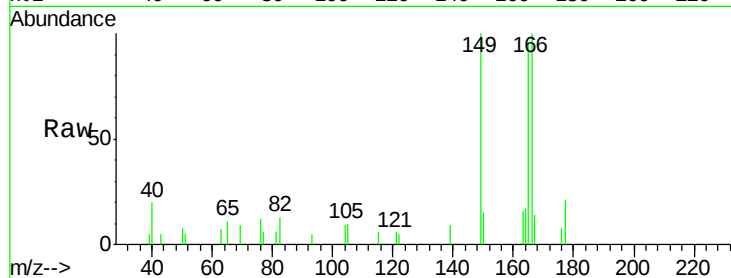
Tot Ion:149 Resp: 9143

Ion Ratio Lower Upper

149 100

177 21.4 15.0 22.6

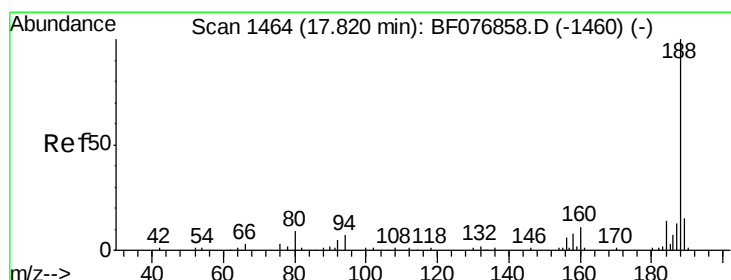
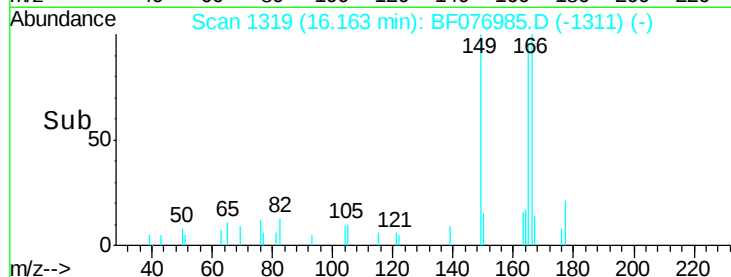
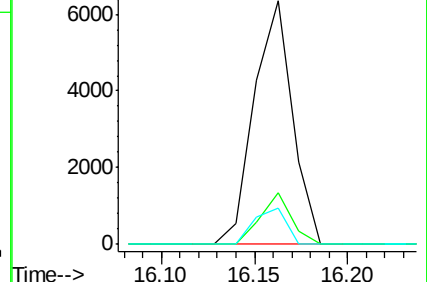
150 14.8 9.4 14.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.73 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

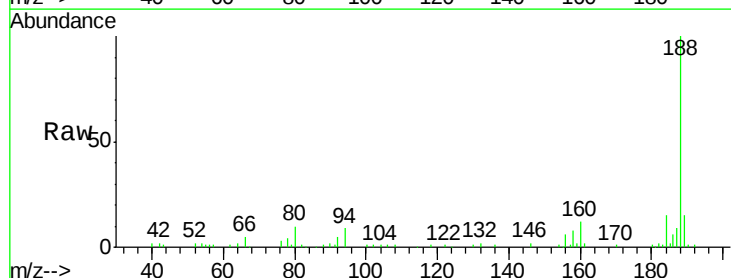
Tgt Ion:188 Resp: 98509

Ion Ratio Lower Upper

188 100

94 8.9 6.0 9.0

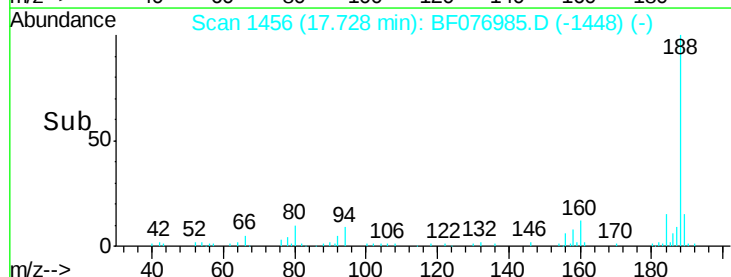
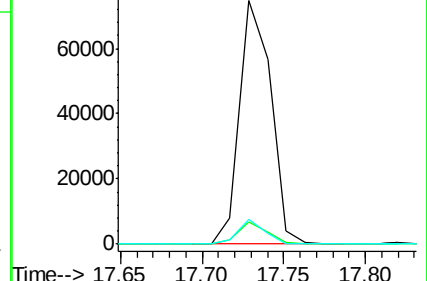
80 10.1 6.9 10.3

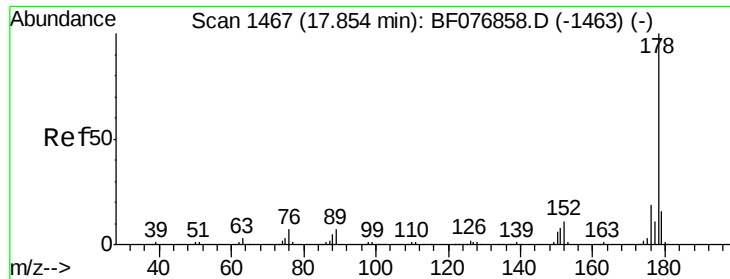


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 36.17 ng

RT: 17.76 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

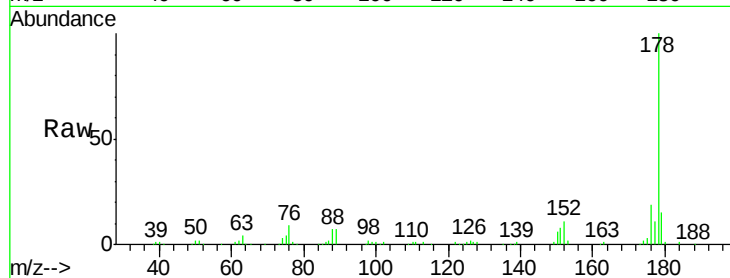
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 222227

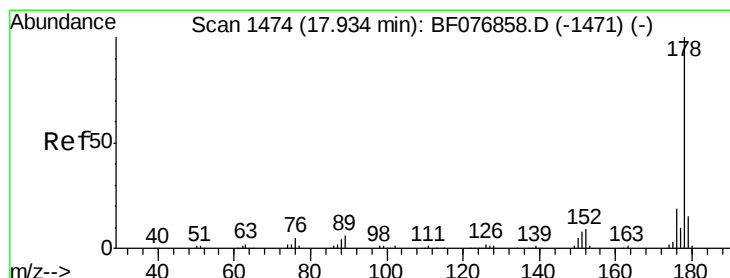
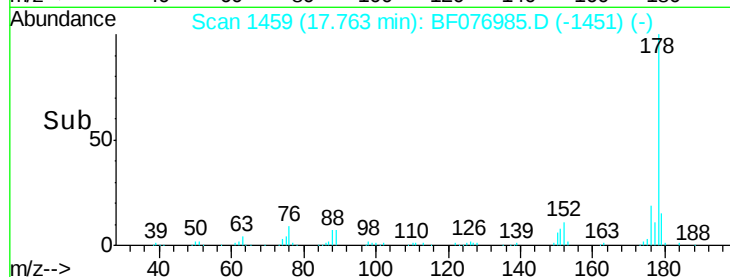
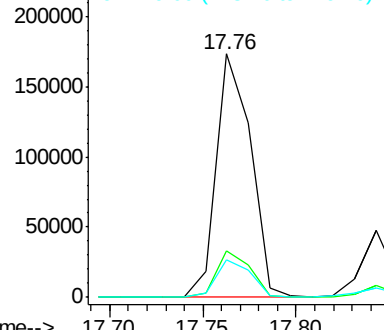
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.1	22.7
179	15.3	12.7	19.1



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: 8.64 ng

RT: 17.84 min Scan# 1466

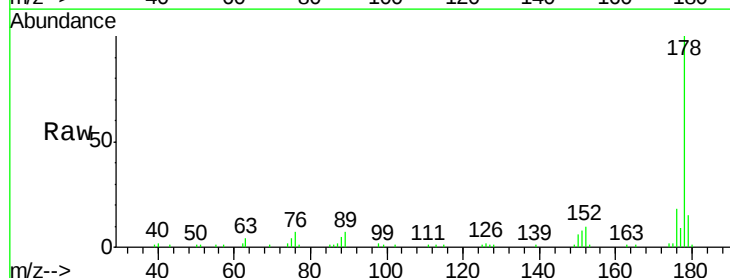
Delta R.T. 0.00 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Tgt Ion:178 Resp: 51752

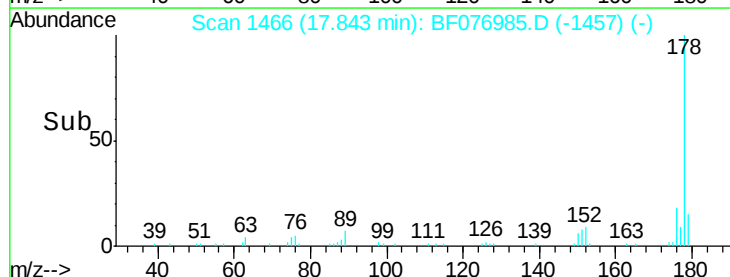
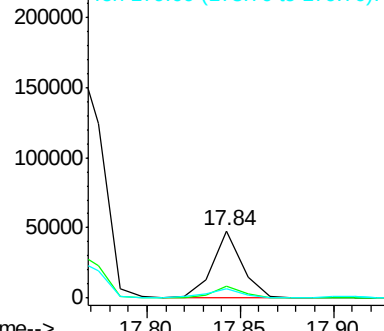
Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.4	23.0
179	14.6	11.9	17.9

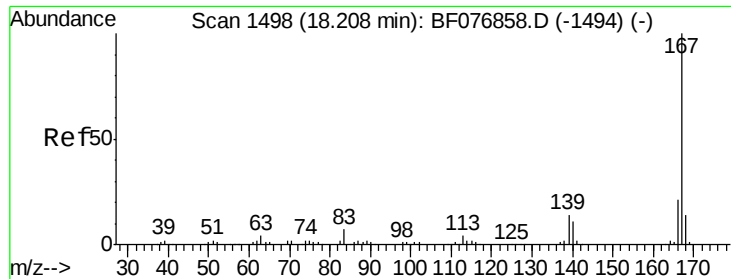


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.63 ng

RT: 18.13 min Scan# 1491

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Instrument :

BNA_F

ClientSampleId :

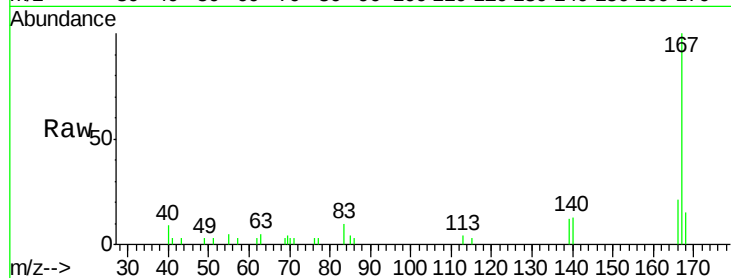
Tot Ion:167 Resp: 15307

Ion Ratio Lower Upper

167 100

166 20.8 17.0 25.6

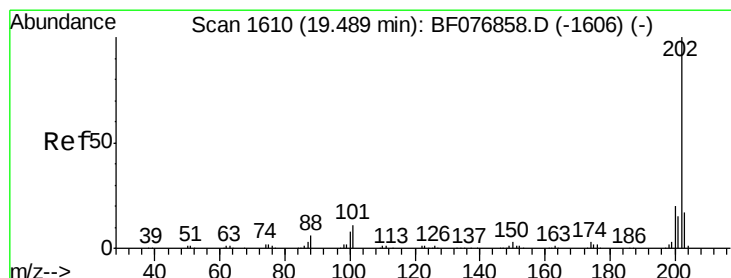
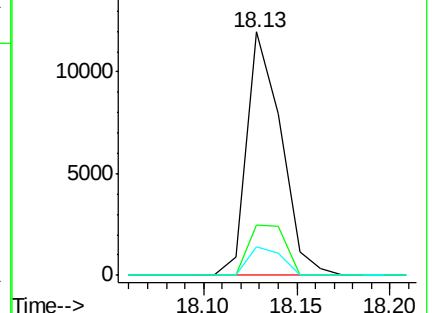
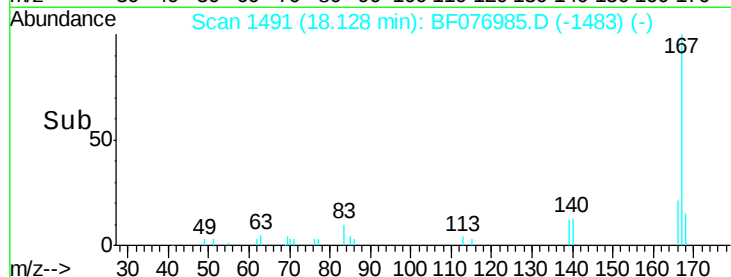
139 12.0 11.3 16.9



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: 52.33 ng

RT: 19.41 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

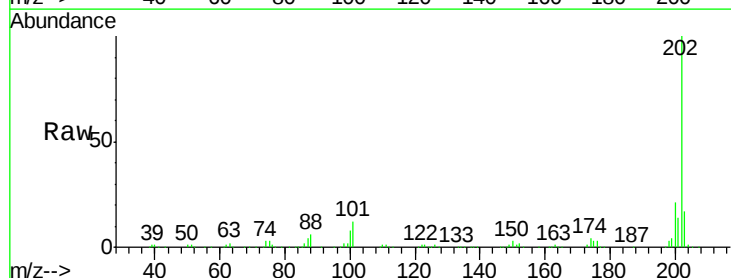
Tgt Ion:202 Resp: 329398

Ion Ratio Lower Upper

202 100

101 12.0 0.0 30.7

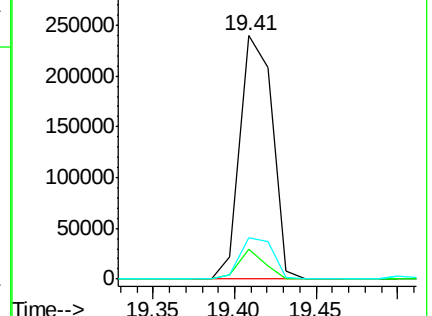
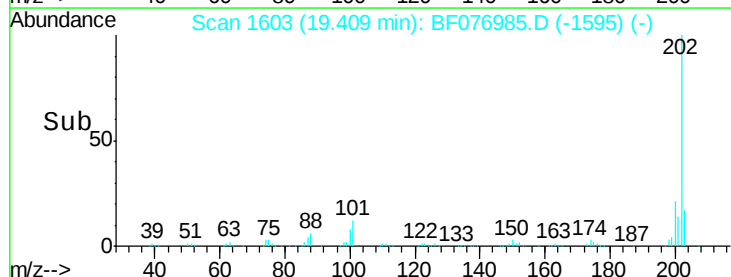
203 17.1 0.0 36.9

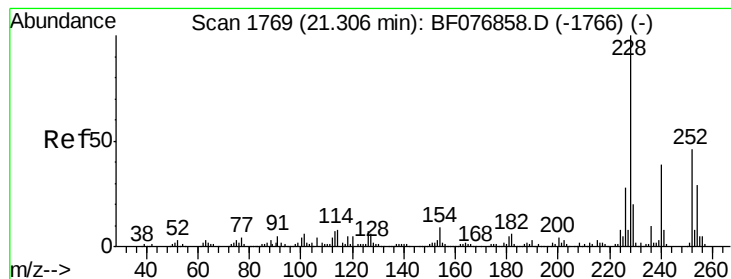


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.24 min Scan# 1763

Delta R.T. 0.00 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Instrument :

BNA_F

ClientSampleId :

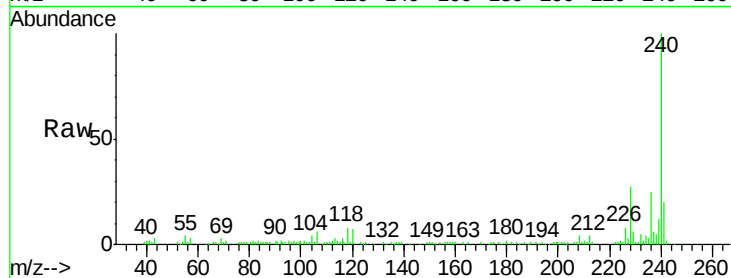
Tot Ion:240 Resp: 92287

Ion Ratio Lower Upper

240 100

120 7.4 10.4 15.6#

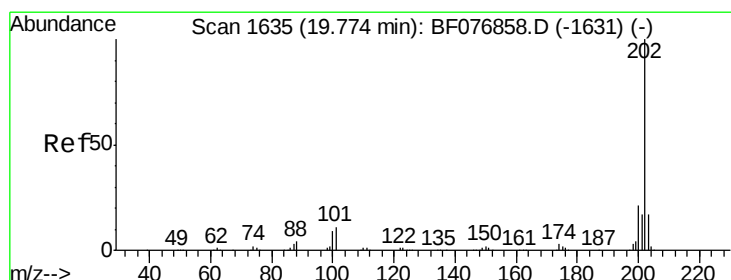
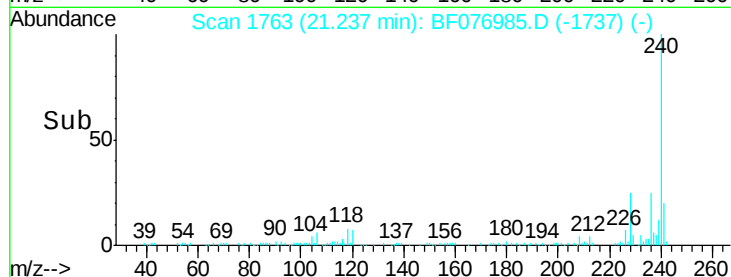
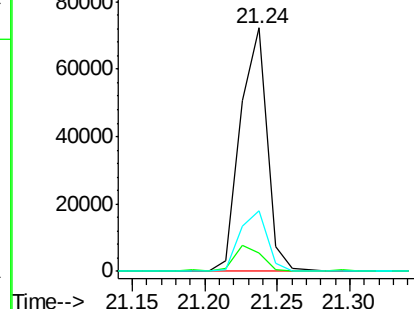
236 24.9 20.2 30.2



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: 44.94 ng

RT: 19.69 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

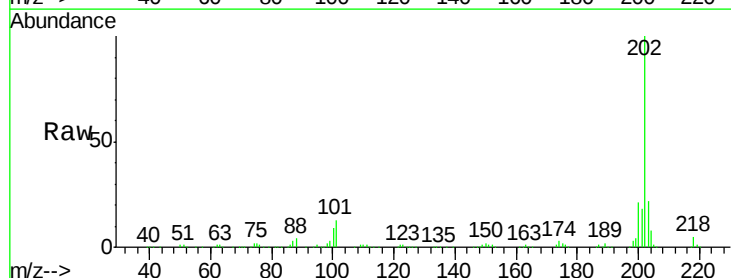
Tgt Ion:202 Resp: 284223

Ion Ratio Lower Upper

202 100

200 21.4 16.7 25.1

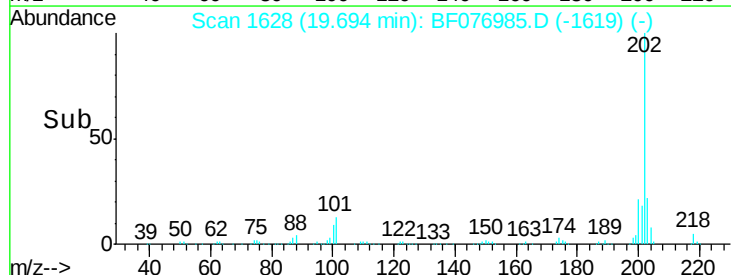
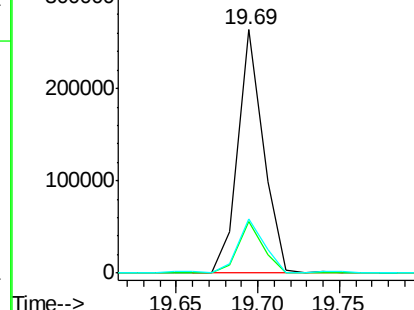
203 22.1 14.0 21.0#

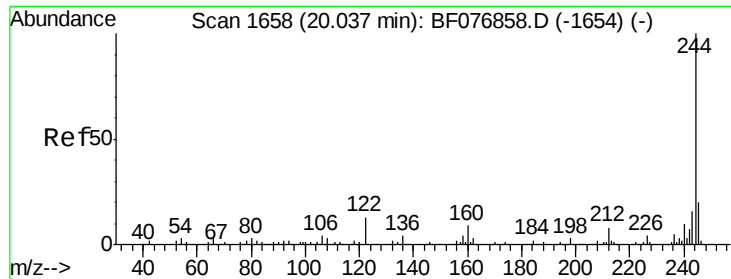


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

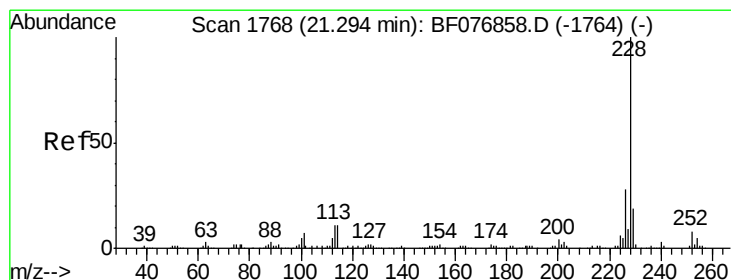
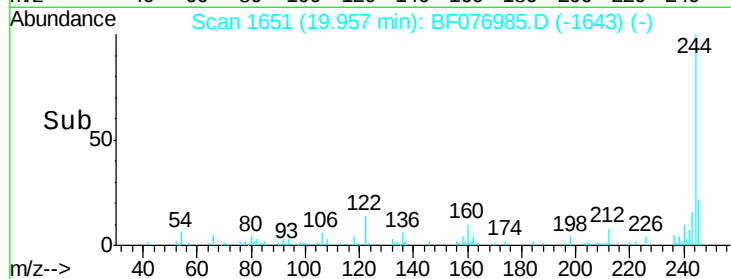
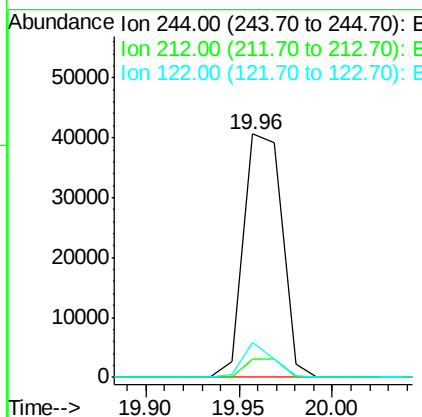
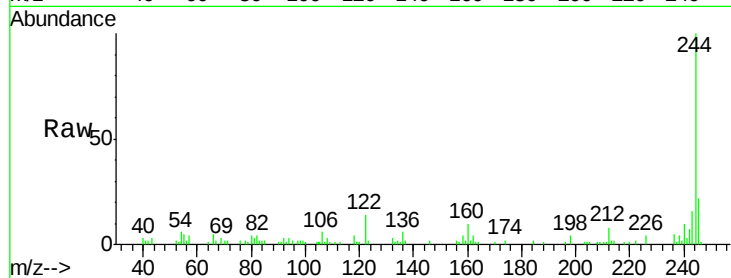




#78
 Terphenyl-d14
 Concen: 14.50 ng
 RT: 19.96 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: BF076985.D
 Acq: 21 Jan 2015 5:22

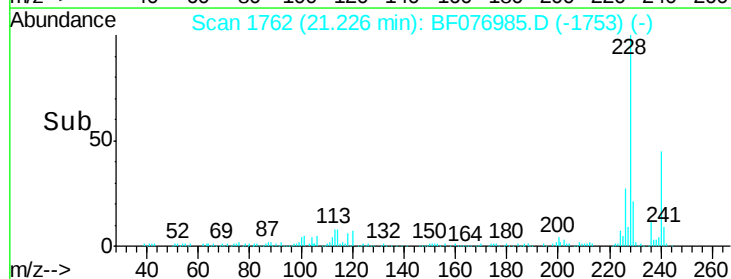
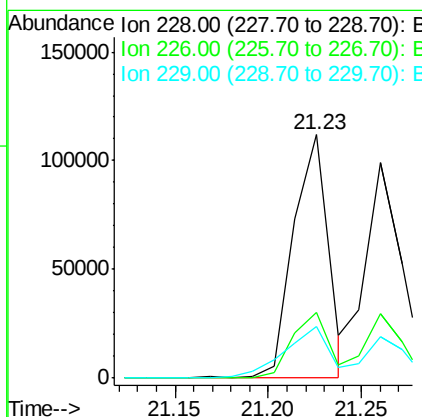
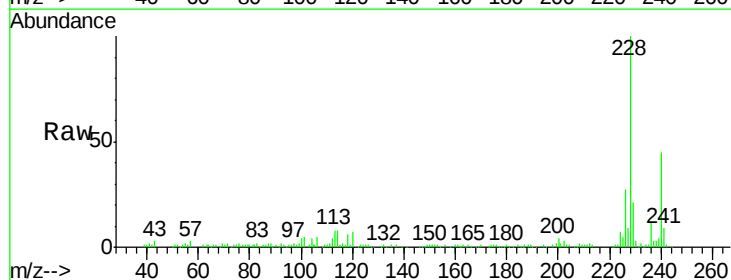
Instrument :
 BNA_F
 ClientSampled :

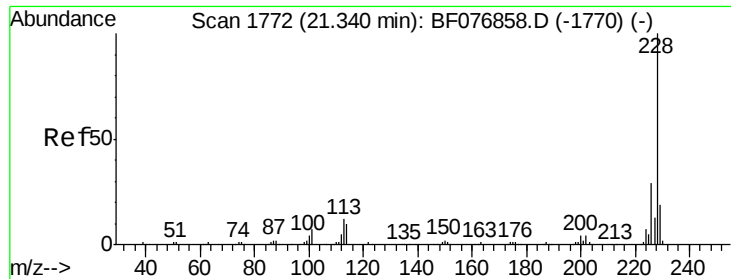
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.3	9.5
122	14.3	10.1	15.1



#80
 Benzo(a)anthracene
 Concen: 24.84 ng
 RT: 21.23 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: BF076985.D
 Acq: 21 Jan 2015 5:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.1	33.1
229	21.1	15.5	23.3

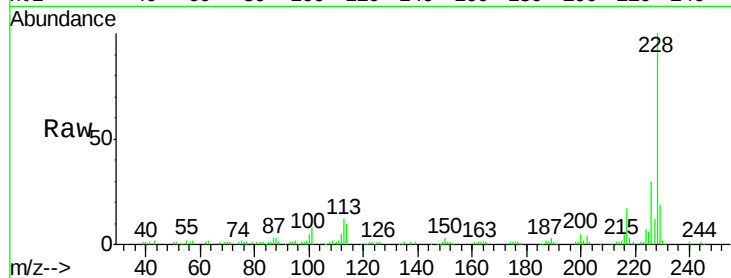




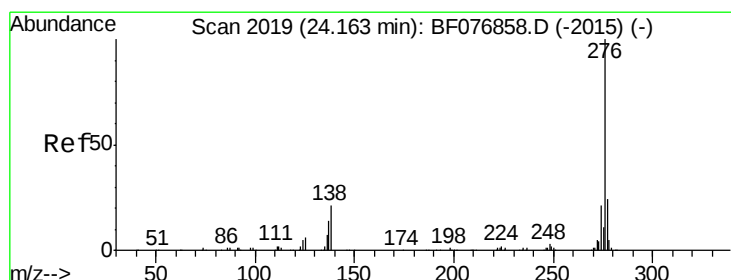
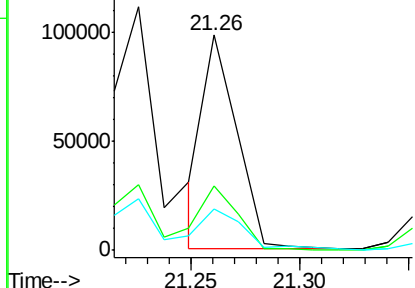
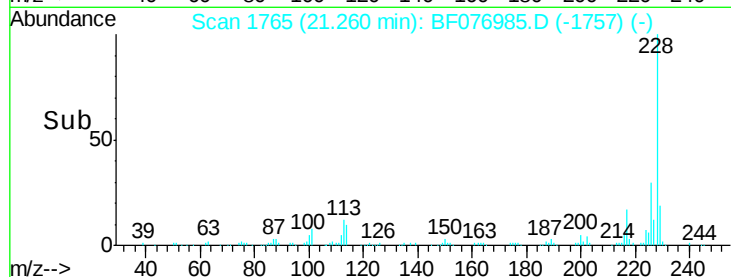
#82
Chrysene
Concen: 20.08 ng
RT: 21.26 min Scan# 1765
Delta R.T. -0.01 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Instrument :
BNA_F
ClientSampled :

Tot Ion:228 Resp: 106038
Ion Ratio Lower Upper
228 100
226 29.9 23.4 35.0
229 19.4 15.4 23.0

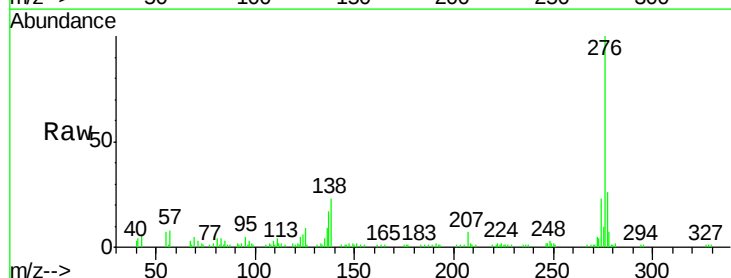


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

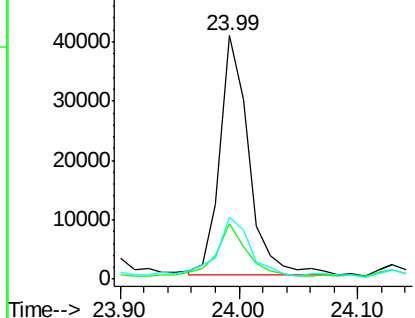
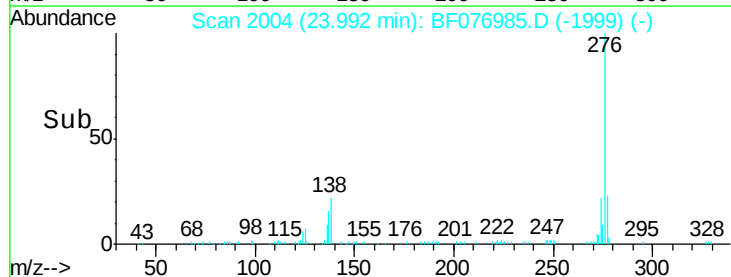


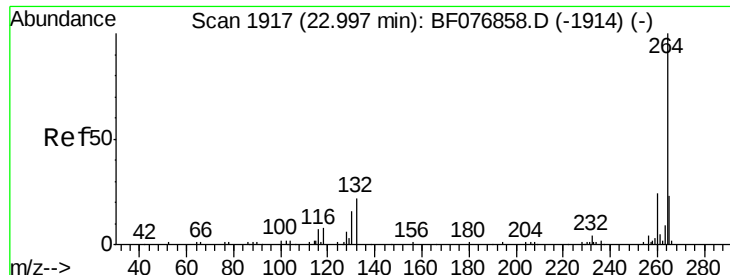
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.15 ng
RT: 23.99 min Scan# 2004
Delta R.T. -0.05 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Tgt Ion:276 Resp: 67987
Ion Ratio Lower Upper
276 100
138 22.3 14.6 22.0#
277 26.7 14.8 22.2#



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

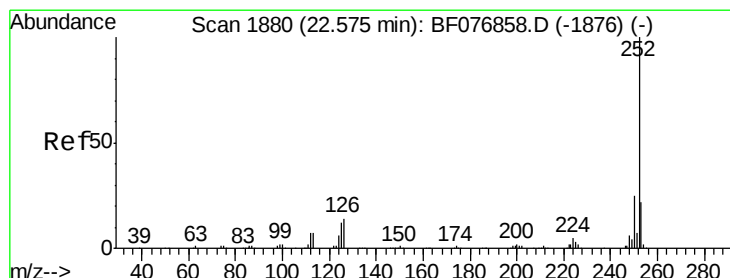
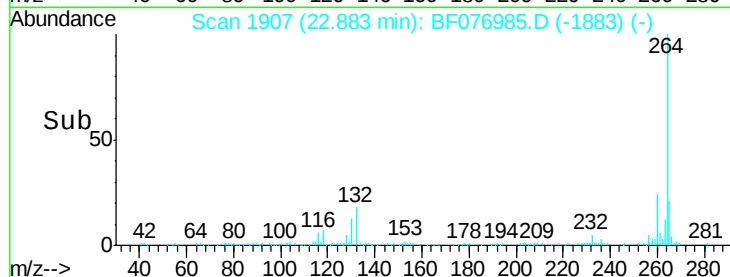
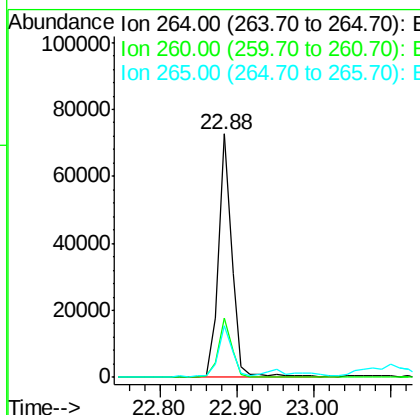
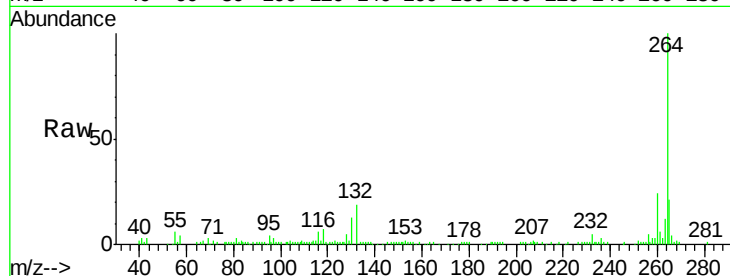




#86
Pervlene-d12
Concen: 20.00 ng
RT: 22.88 min Scan# 1907
Delta R.T. -0.02 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

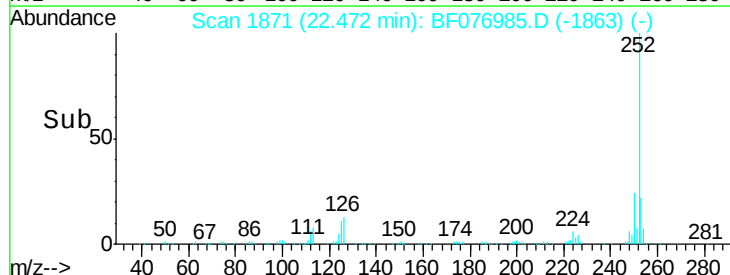
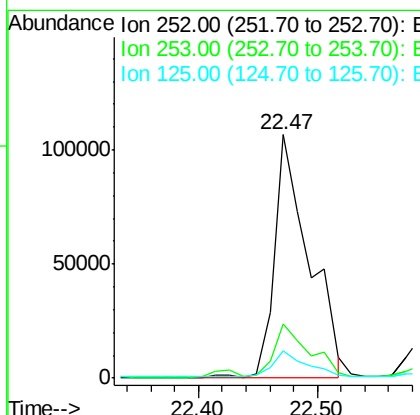
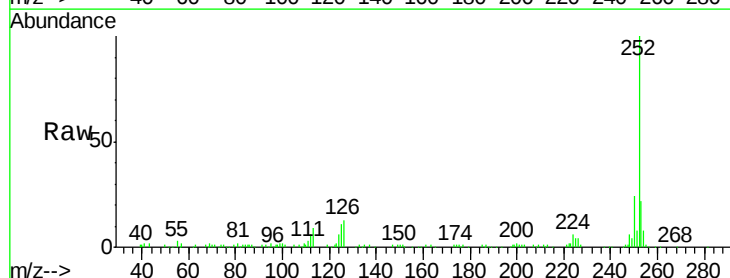
Instrument :
BNA_F
ClientSampled :

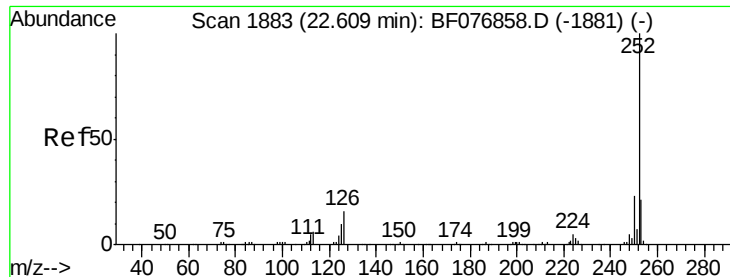
Tot Ion:264 Resp: 89821
Ion Ratio Lower Upper
264 100
260 24.3 19.0 28.4
265 21.4 18.1 27.1



#87
Benzo(b)fluoranthene
Concen: 35.64 ng
RT: 22.47 min Scan# 1871
Delta R.T. -0.01 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Tgt Ion:252 Resp: 215635
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 11.4 9.4 14.0

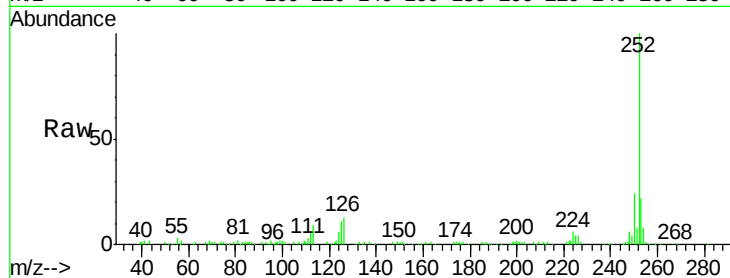




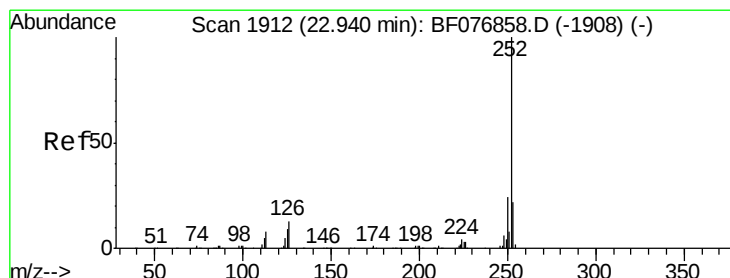
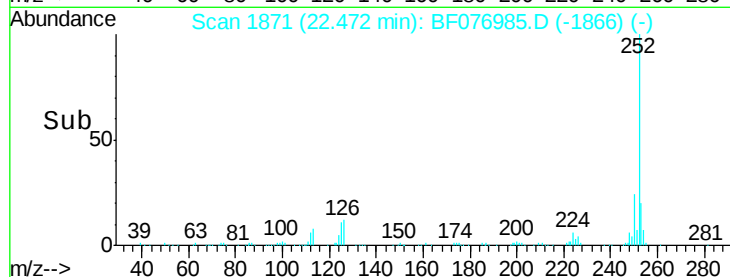
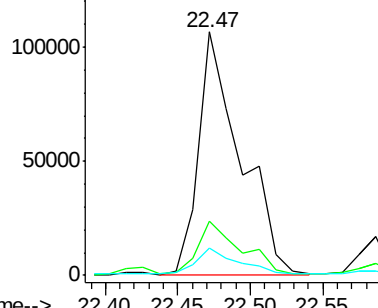
#88
Benzo(k)fluoranthene
Concen: 40.32 ng
RT: 22.47 min Scan# 1871
Delta R.T. -0.05 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 213087
Ion Ratio Lower Upper
252 100
253 22.4 17.2 25.8
125 11.4 7.1 10.7#

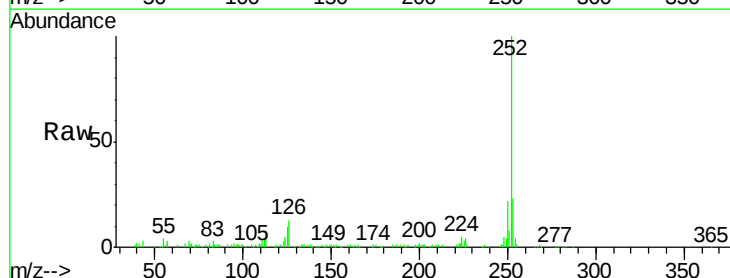


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

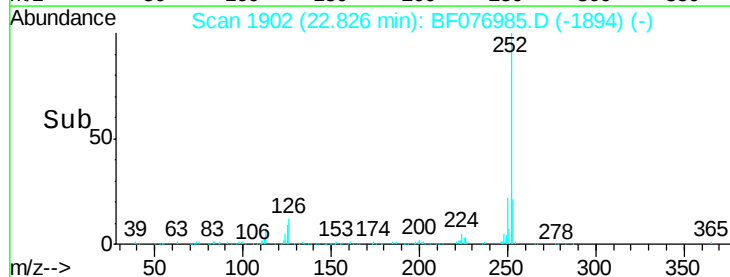
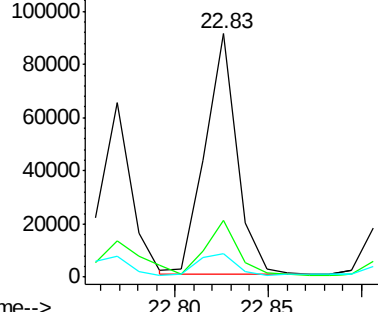


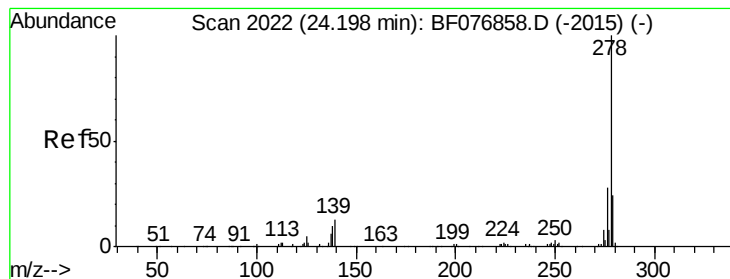
#89
Benzo(a)pyrene
Concen: 20.18 ng
RT: 22.83 min Scan# 1902
Delta R.T. -0.01 min
Lab File: BF076985.D
Acq: 21 Jan 2015 5:22

Tgt Ion:252 Resp: 107670
Ion Ratio Lower Upper
252 100
253 23.2 17.9 26.9
125 9.8 7.2 10.8



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





#90

Dibenzo(a,h)anthracene

Concen: 3.84 ng

RT: 24.01 min Scan# 2006

Delta R.T. -0.05 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

Instrument :

BNA_F

ClientSampleId :

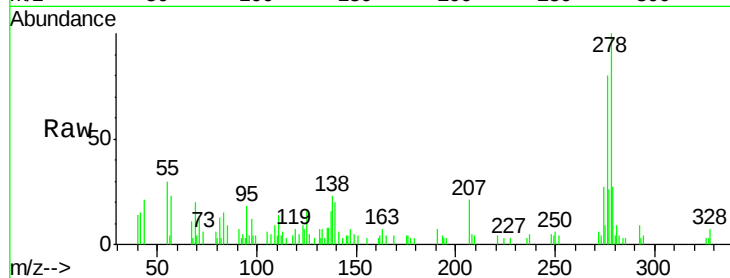
Tot Ion:278 Resp: 18779

Ion Ratio Lower Upper

278 100

139 20.4 10.5 15.7#

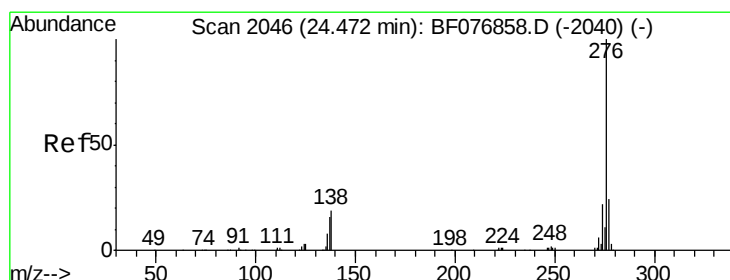
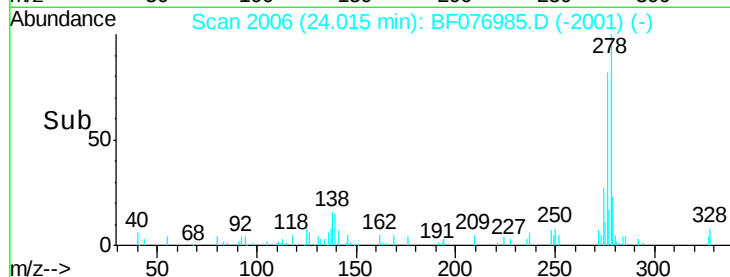
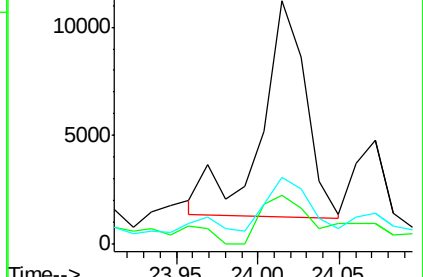
279 27.4 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 13.52 ng

RT: 24.29 min Scan# 2030

Delta R.T. -0.03 min

Lab File: BF076985.D

Acq: 21 Jan 2015 5:22

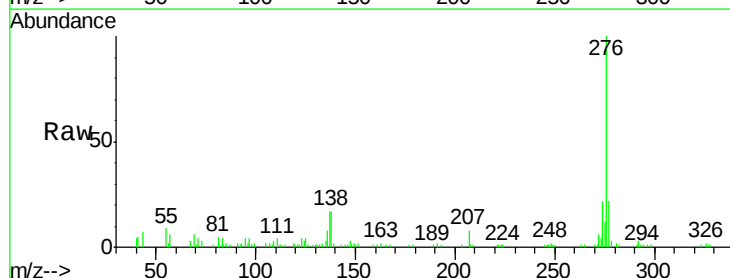
Tgt Ion:276 Resp: 65802

Ion Ratio Lower Upper

276 100

277 22.0 19.5 29.3

138 16.6 15.0 22.6



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

