

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101417\
 Data File : BF099474.D
 Acq On : 14 Oct 2017 13:59
 Operator : SJ/JU
 Sample : I5819-15
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

Quant Time: Oct 14 23:48:08 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 14 23:44:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	100802	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	412113	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	185960	20.00	ng	0.00
63) Phenanthrene-d10	11.38	188	317287	20.00	ng	0.00
75) Chrysene-d12	14.02	240	194114	20.00	ng	0.00
86) Perylene-d12	15.49	264	149551	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	541694	85.55	ng	0.01
7) Phenol-d6	6.49	99	426617	54.61	ng	0.00
23) Nitrobenzene-d5	7.42	82	672170	104.60	ng	0.00
41) 2,4,6-Tribromophenol	10.69	330	232854	153.03	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	1242924	111.58	ng	0.00
78) Terphenyl-d14	12.96	244	982283	115.08	ng	0.00

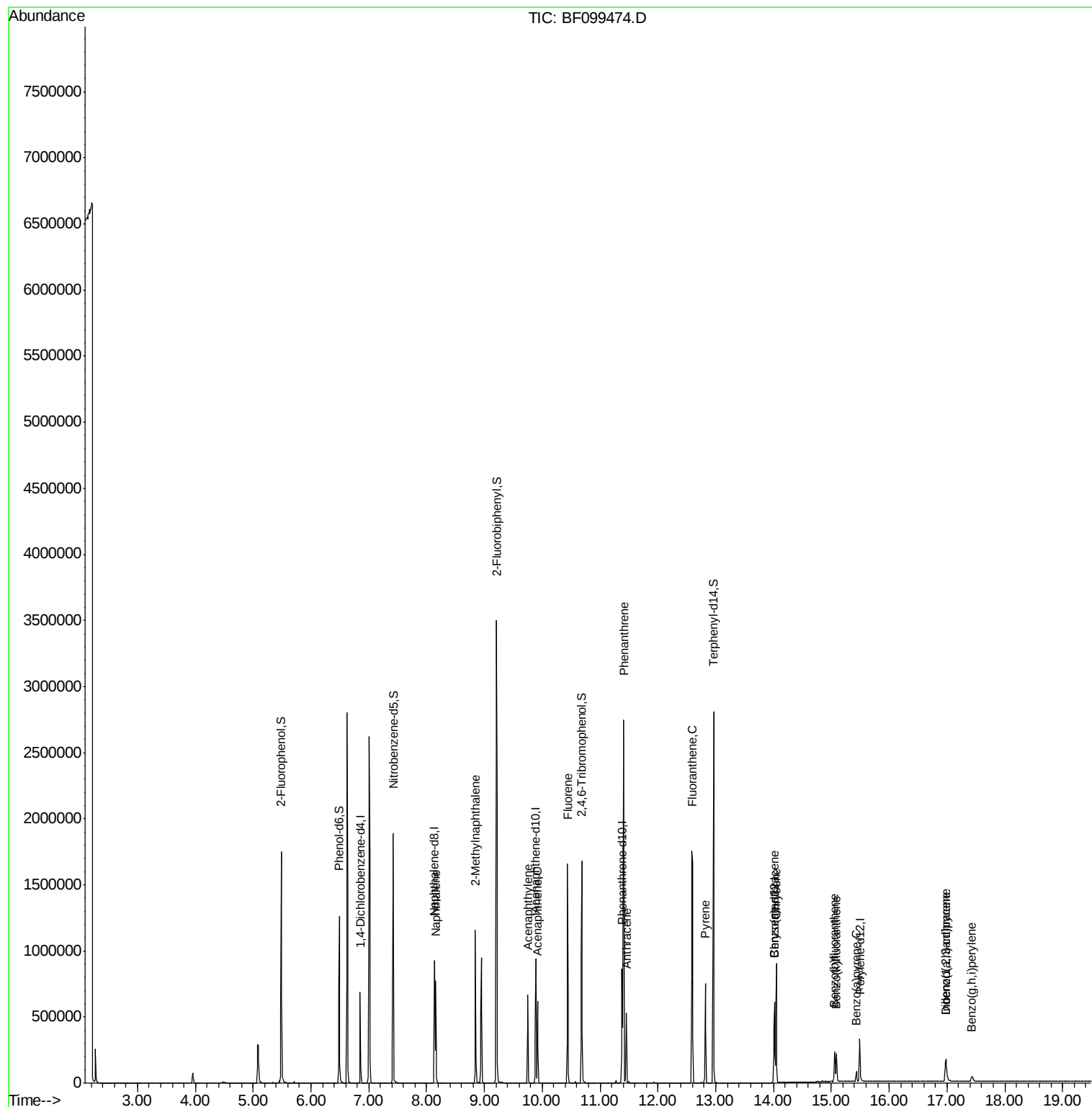
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.16	128	350417	18.10	ng	99
37) 2-Methylnaphthalene	8.85	142	327329	26.01	ng	99
48) Acenaphthylene	9.75	152	272005	14.81	ng	99
51) Acenaphthene	9.92	154	130574	11.22	ng	99
57) Fluorene	10.44	166	442230	35.51	ng	100
70) Phenanthrene	11.41	178	1139128	67.07	ng	99
71) Anthracene	11.46	178	218353	12.57	ng	98
74) Fluoranthene	12.59	202	742831	43.19	ng	99
77) Pyrene	12.82	202	284150	19.20	ng	99
80) Benzo(a)anthracene	14.01	228	90202	7.67	ng	97
82) Chrysene	14.04	228	296776	26.52	ng	99
85) Indeno(1,2,3-cd)pyrene	16.98	276	103930	11.61	ng	98
87) Benzo(b)fluoranthene	15.06	252	104133	11.32	ng	99
88) Benzo(k)fluoranthene	15.09	252	96779	10.66	ng	97
89) Benzo(a)pyrene	15.43	252	43702	5.18	ng	98
90) Dibenzo(a,h)anthracene	16.99	278	61646	9.13	ng	96
91) Benzo(g,h,i)perylene	17.43	276	36907	5.53	ng	97

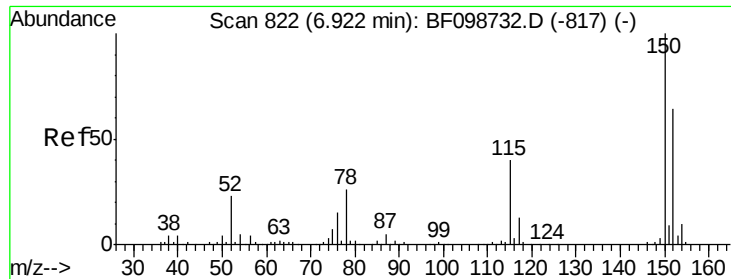
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101417\
Data File : BF099474.D
Acq On : 14 Oct 2017 13:59
Operator : SJ/JU
Sample : I5819-15
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
4098-QC-1

Quant Time: Oct 14 23:48:08 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 14 23:44:03 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 810

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Instrument :

BNA_F

ClientSampleId :

4098-QC-1

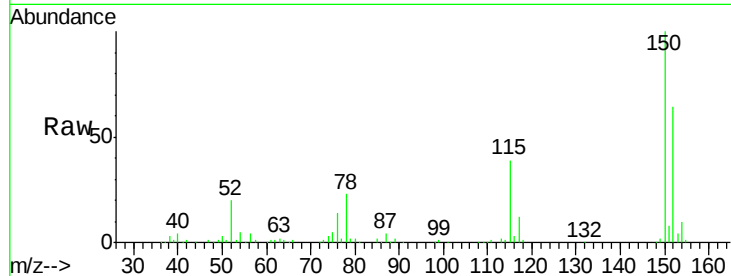
Tgt Ion:152 Resp: 100802

Ion Ratio Lower Upper

152 100

150 155.4 124.6 186.8

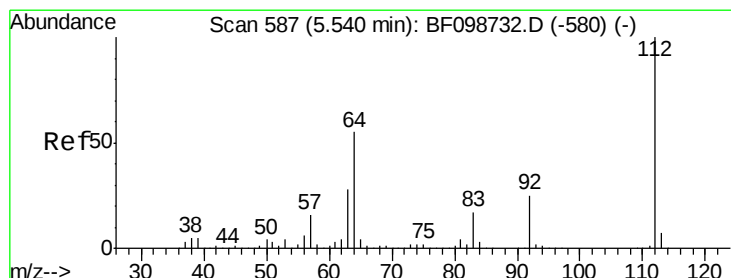
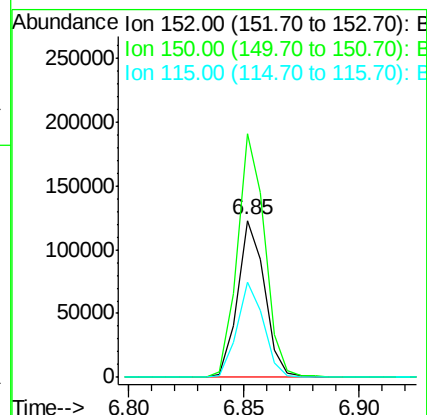
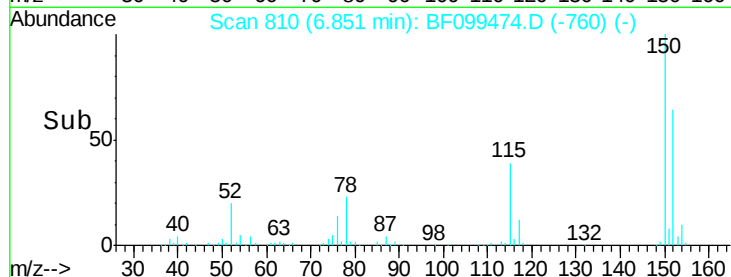
115 60.8 50.1 75.1



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: 85.55 ng

RT: 5.49 min Scan# 578

Delta R.T. 0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

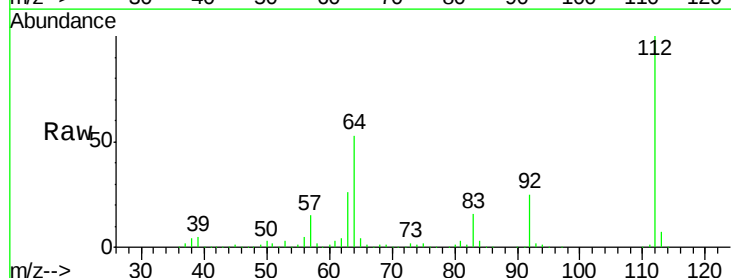
Tgt Ion:112 Resp: 541694

Ion Ratio Lower Upper

112 100

64 52.9 47.9 71.9

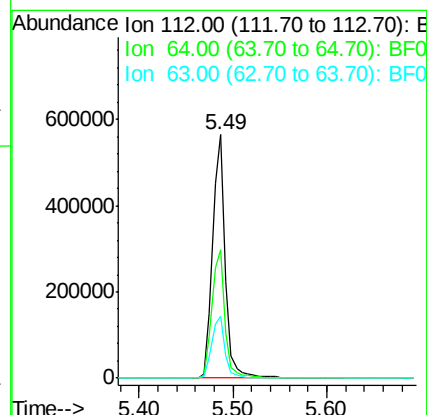
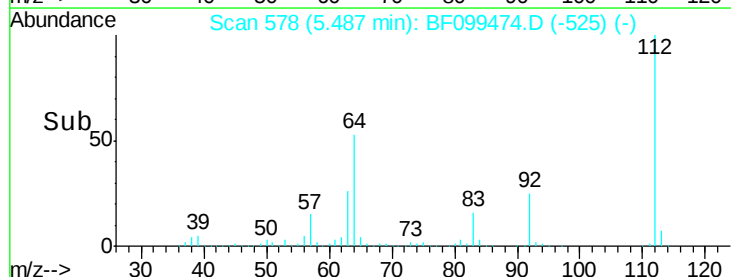
63 25.5 23.7 35.5



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: 54.61 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Instrument :

BNA_F

ClientSampleId :

4098-QC-1

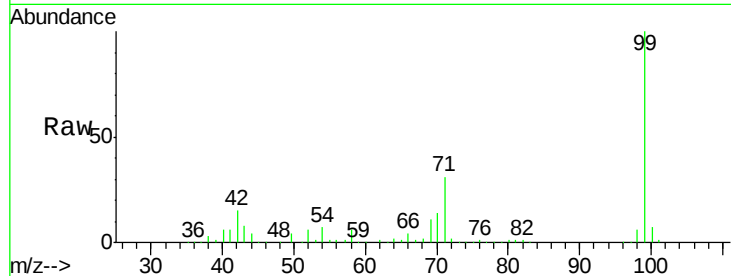
Tgt Ion: 99 Resp: 426617

Ion Ratio Lower Upper

99 100

42 15.4 14.5 21.7

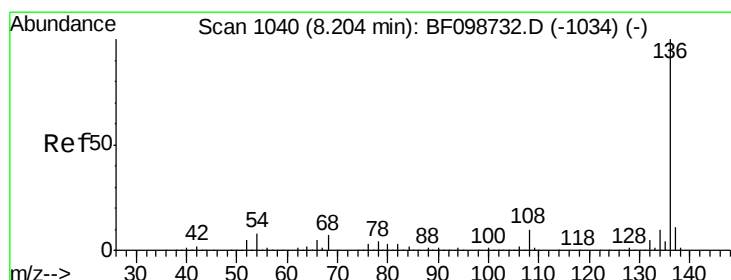
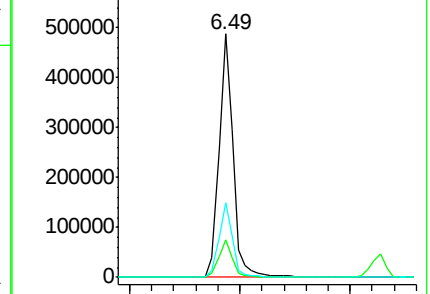
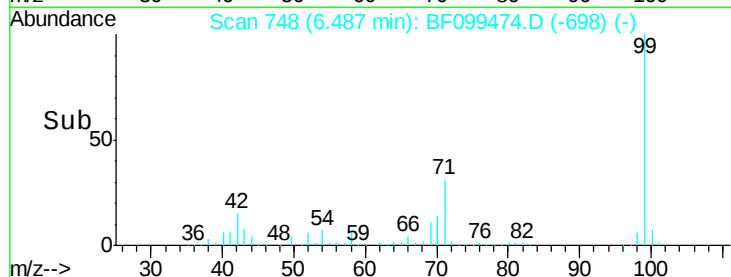
71 30.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Tgt Ion: 136 Resp: 412113

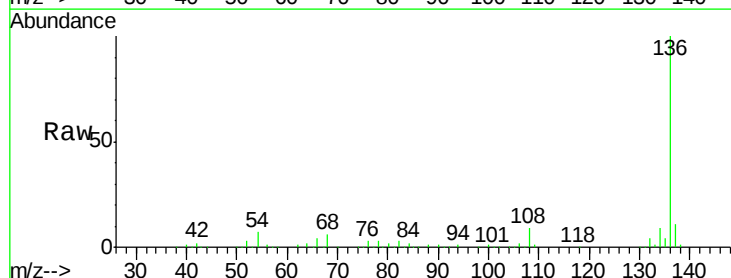
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.1 6.6 9.8

68 5.7 5.0 7.4

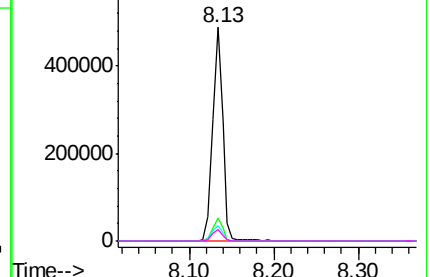
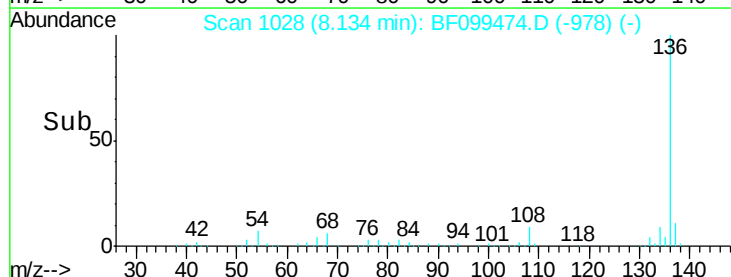


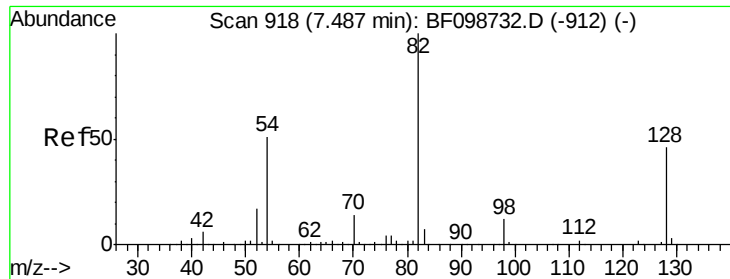
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

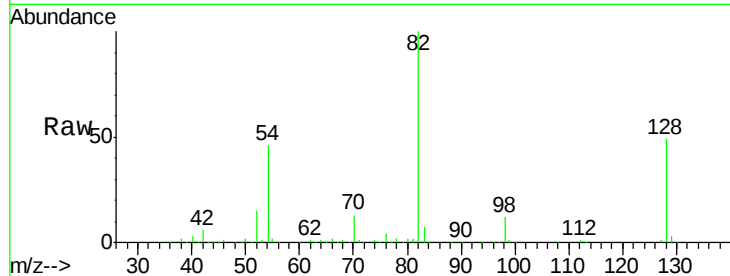




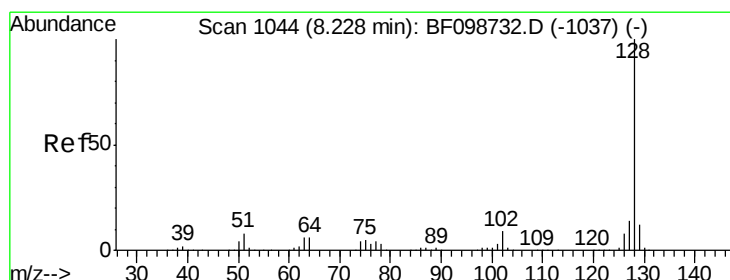
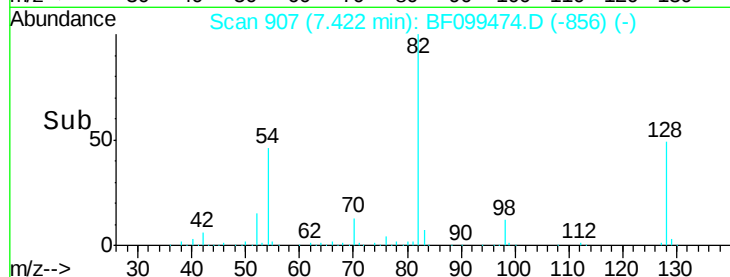
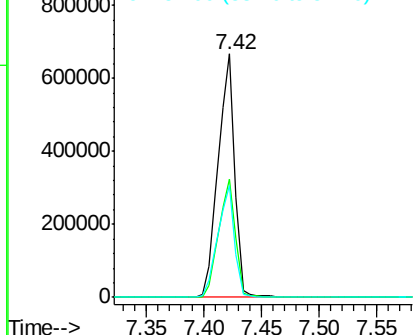
#23
 Nitrobenzene-d5
 Concen: 104.60 ng
 RT: 7.42 min Scan# 907
 Delta R.T. 0.00 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

Tgt Ion: 82 Resp: 672170
 Ion Ratio Lower Upper
 82 100
 128 48.6 36.1 54.1
 54 45.8 41.4 62.2

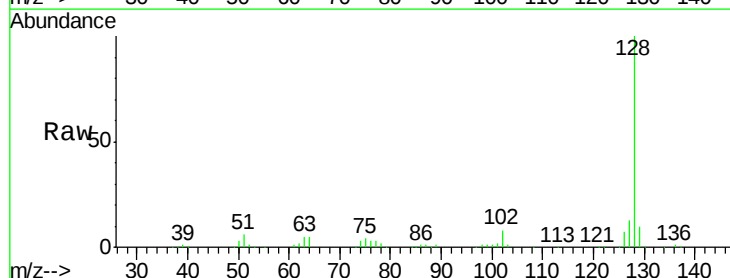


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

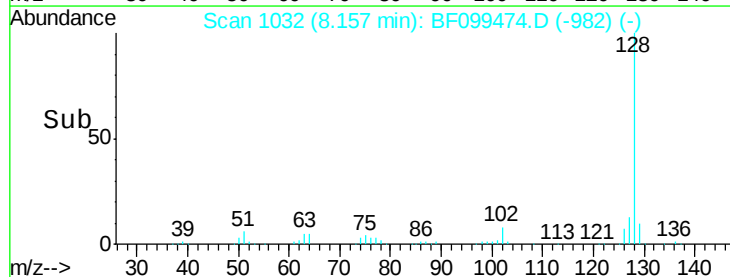
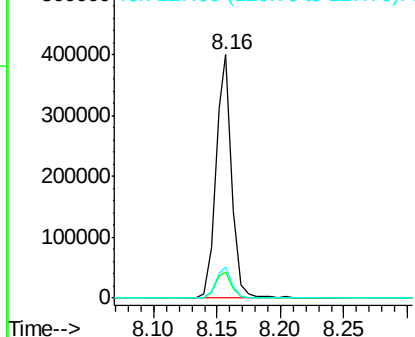


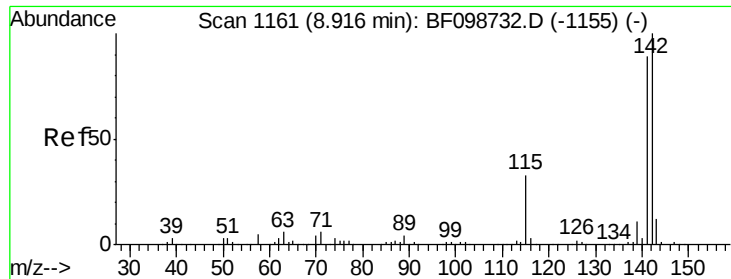
#31
 Naphthalene
 Concen: 18.10 ng
 RT: 8.16 min Scan# 1032
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion: 128 Resp: 350417
 Ion Ratio Lower Upper
 128 100
 129 10.4 8.8 13.2
 127 13.0 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

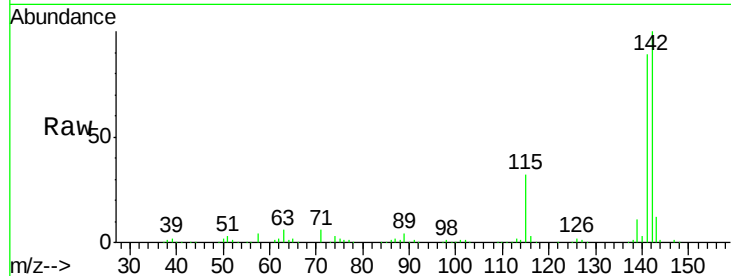




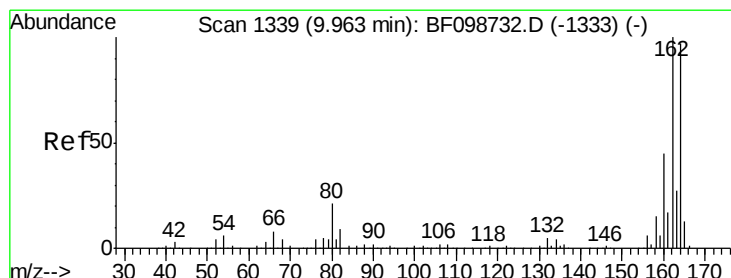
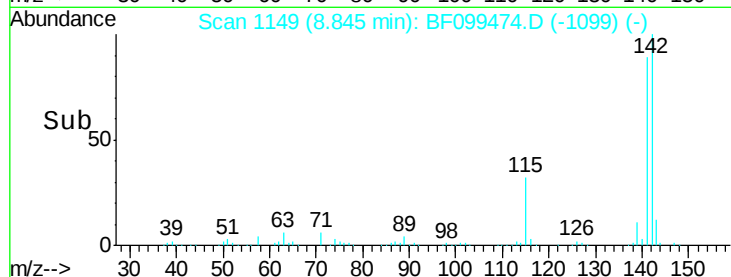
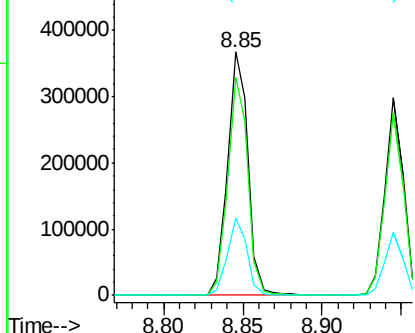
#37
 2-Methylnaphthalene
 Concen: 26.01 ng
 RT: 8.85 min Scan# 1149
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.8	106.2
115	31.9	26.1	39.1

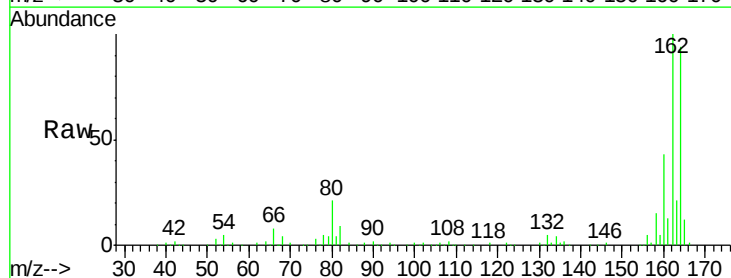


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

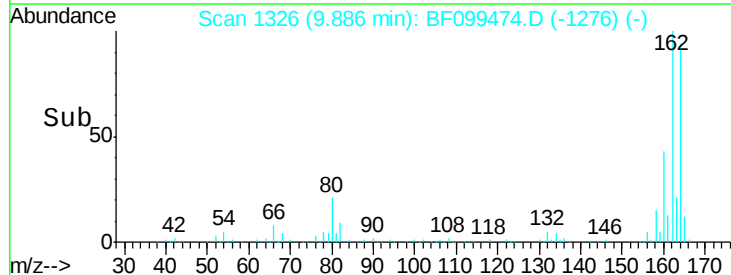
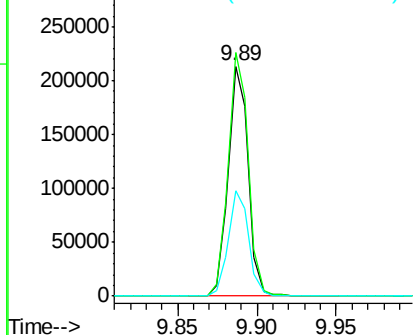


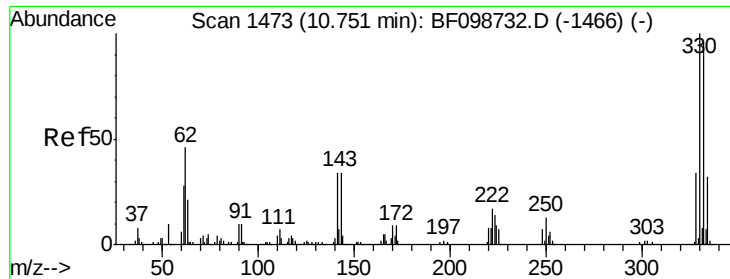
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.0	86.1	129.1
160	45.9	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

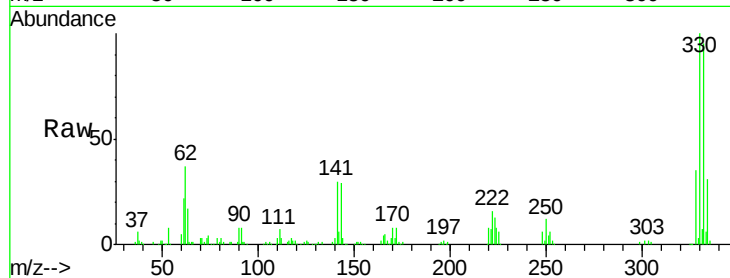




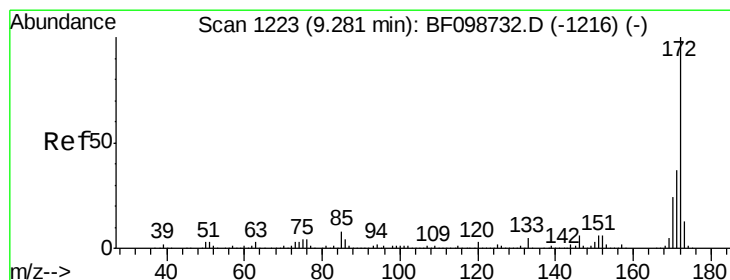
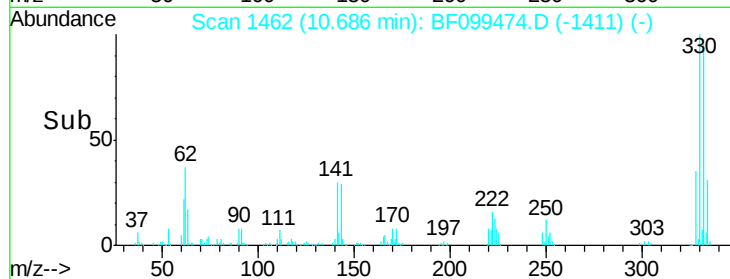
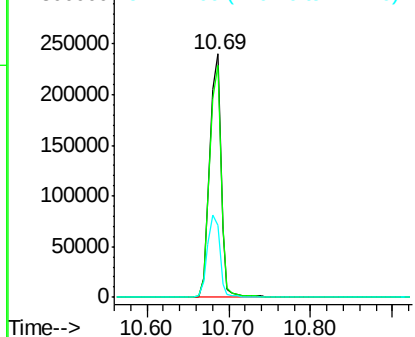
#41
 2,4,6-Tribromophenol
 Concen: 153.03 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. 0.00 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

Tgt Ion:330 Resp: 232854
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.0 115.6
 141 36.9 29.9 44.9

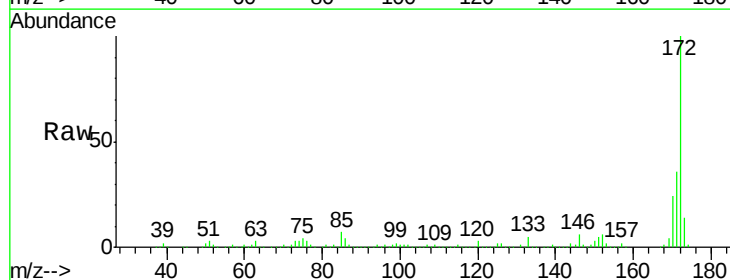


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

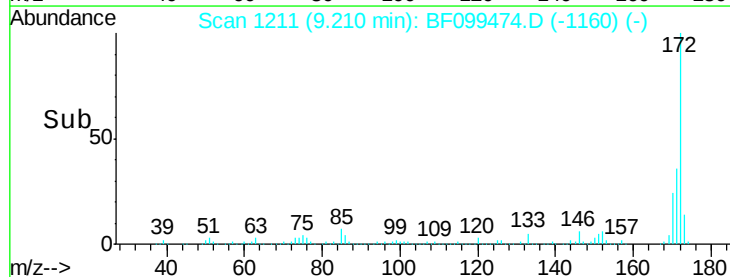
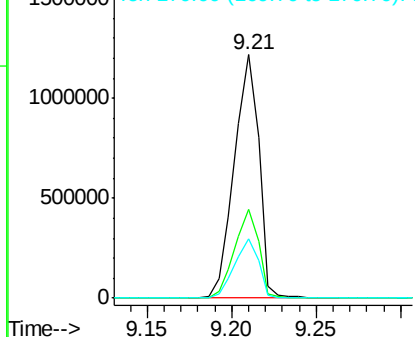


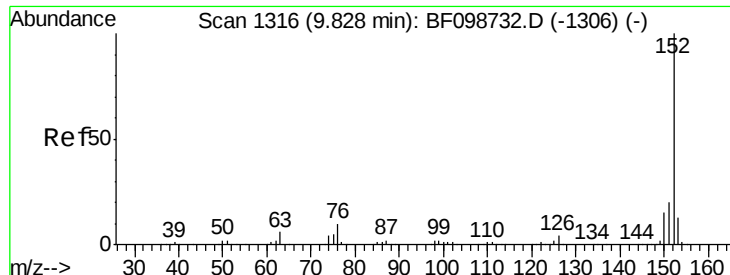
#44
 2-Fluorobiphenyl
 Concen: 111.58 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion:172 Resp: 1242924
 Ion Ratio Lower Upper
 172 100
 171 36.5 29.7 44.5
 170 24.2 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 14.81 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Instrument :

BNA_F

ClientSampleId :

4098-QC-1

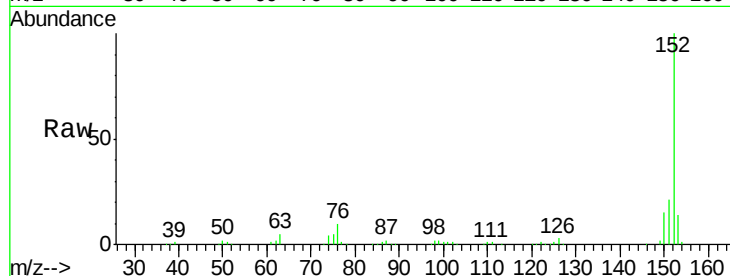
Tgt Ion:152 Resp: 272005

Ion Ratio Lower Upper

152 100

151 20.8 16.3 24.5

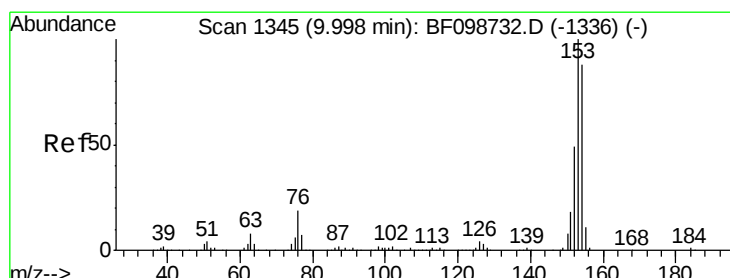
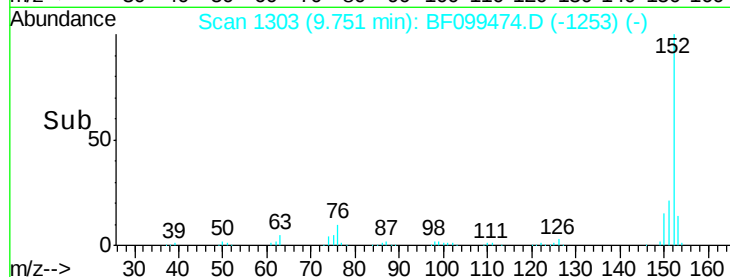
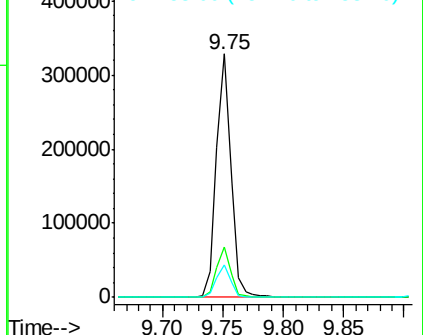
153 13.5 10.7 16.1



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



#51

Acenaphthene

Concen: 11.22 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

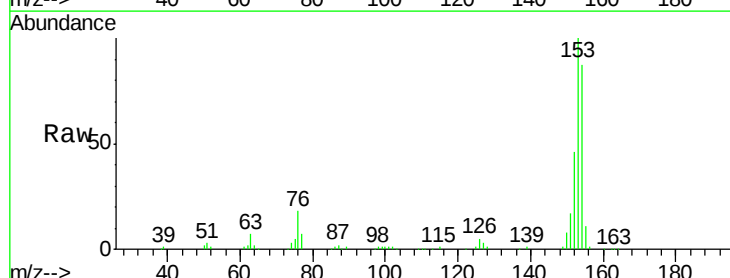
Tgt Ion:154 Resp: 130574

Ion Ratio Lower Upper

154 100

153 114.3 91.2 136.8

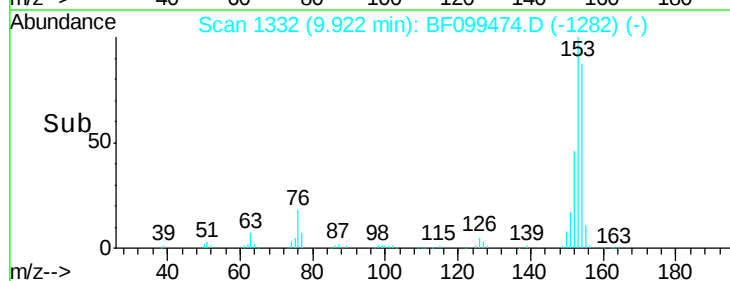
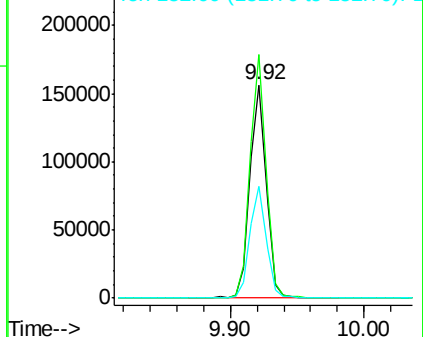
152 52.4 43.8 65.8

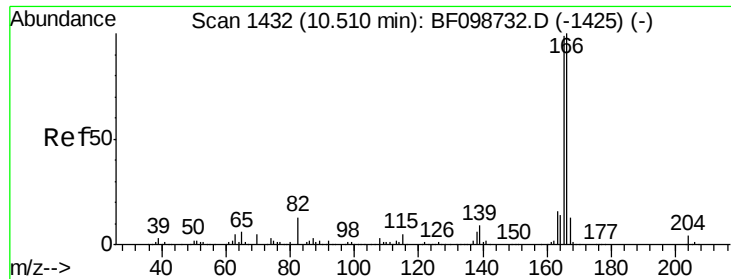


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

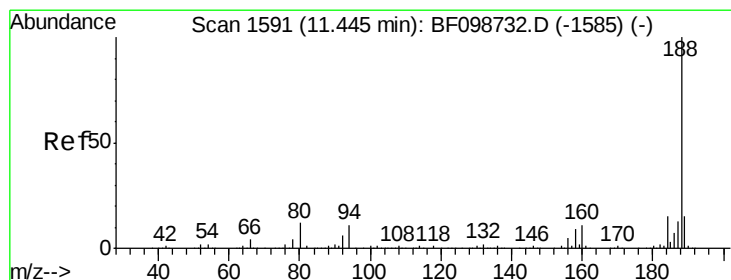
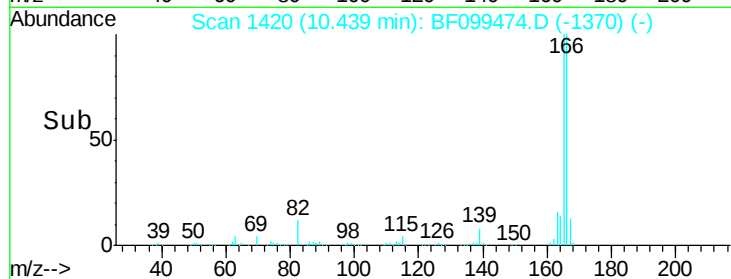
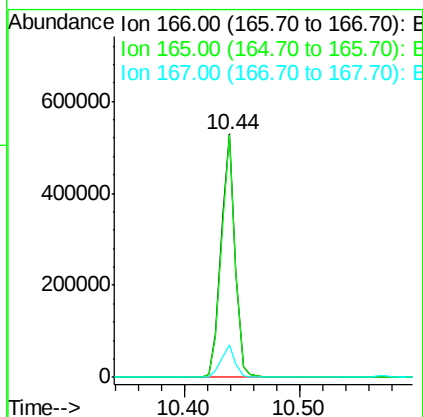
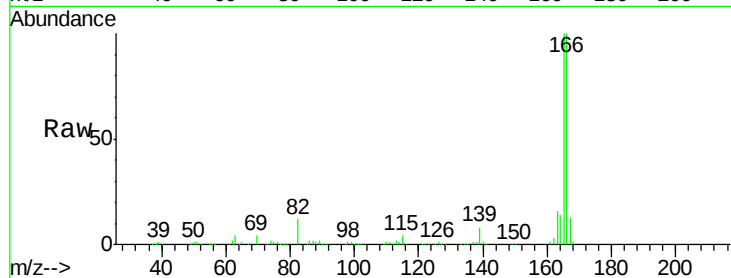




#57
Fluorene
 Concen: 35.51 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

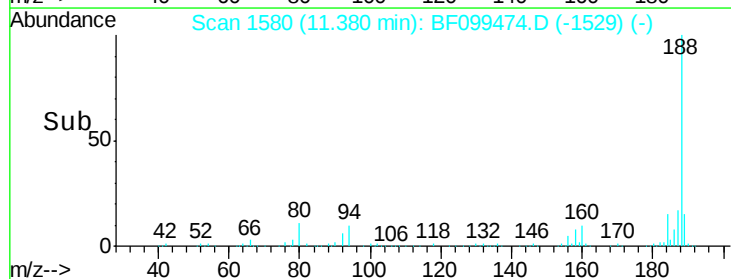
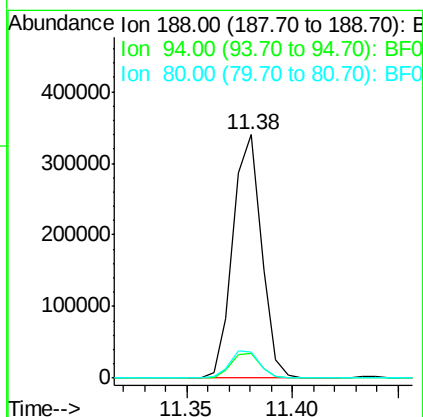
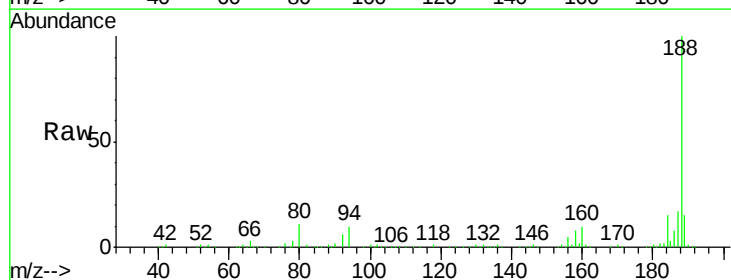
Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

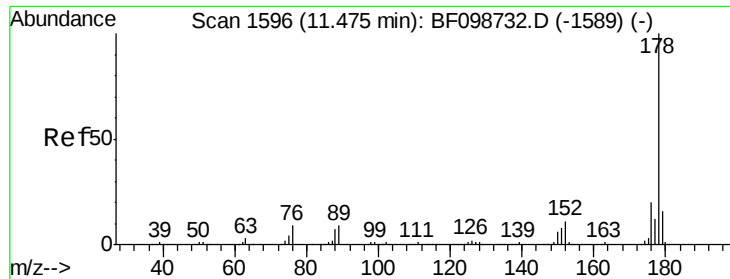
Tgt Ion:166 Resp: 442230
 Ion Ratio Lower Upper
 166 100
 165 99.7 79.8 119.8
 167 13.4 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion:188 Resp: 317287
 Ion Ratio Lower Upper
 188 100
 94 10.4 8.5 12.7
 80 10.8 9.2 13.8





#70

Phenanthrene

Concen: 67.07 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Instrument :

BNA_F

ClientSampleId :

4098-QC-1

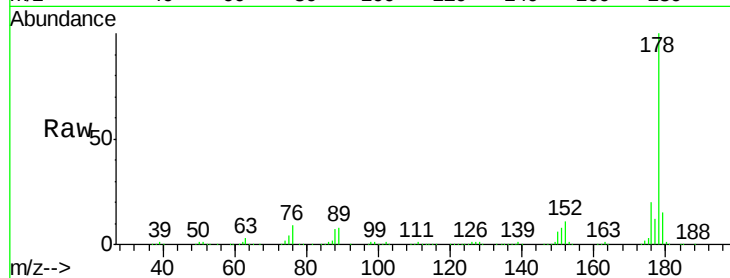
Tgt Ion:178 Resp: 1139128

Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

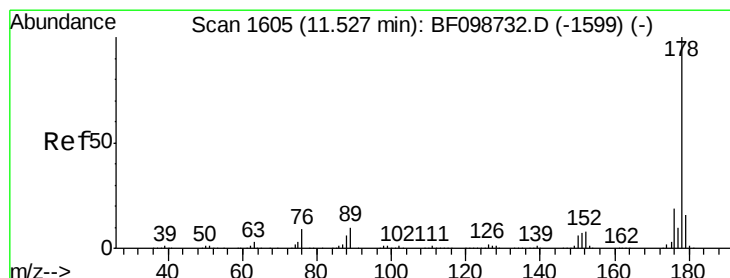
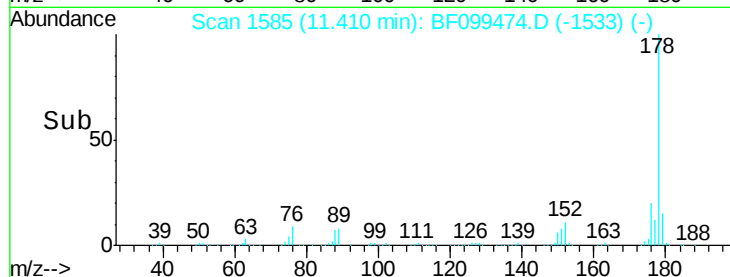
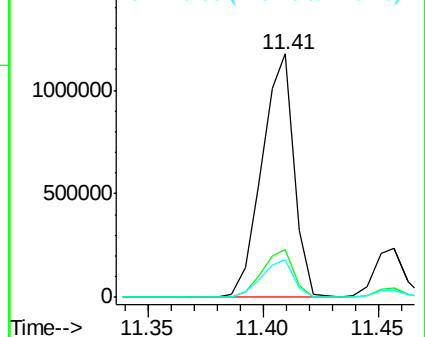
179 15.4 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 12.57 ng

RT: 11.46 min Scan# 1593

Delta R.T. 0.00 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

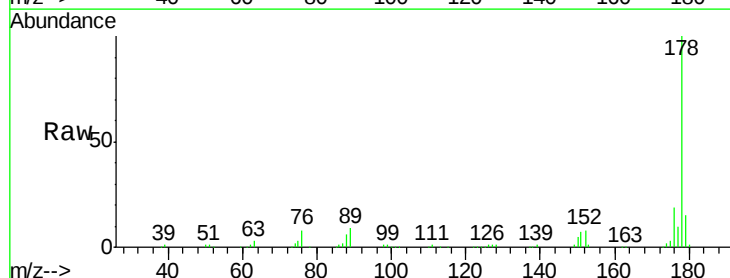
Tgt Ion:178 Resp: 218353

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

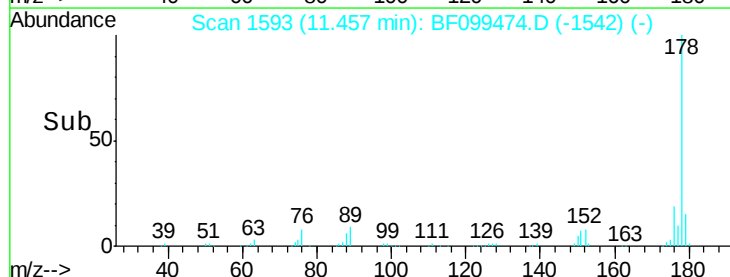
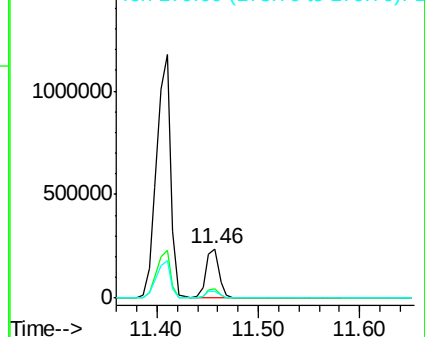
179 14.9 12.6 19.0

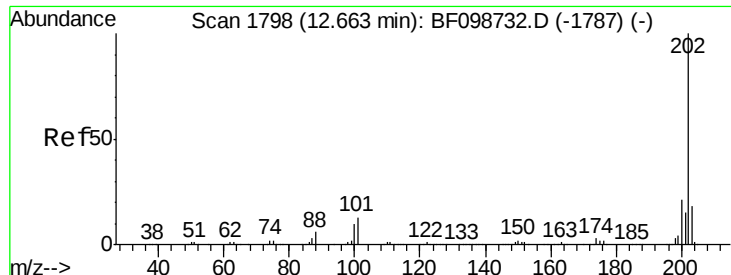


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

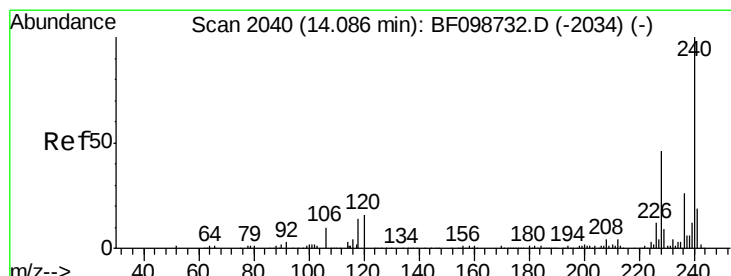
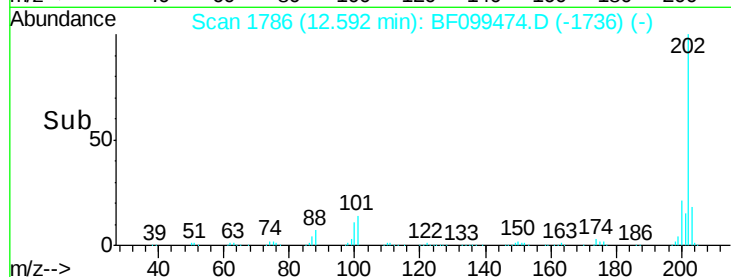
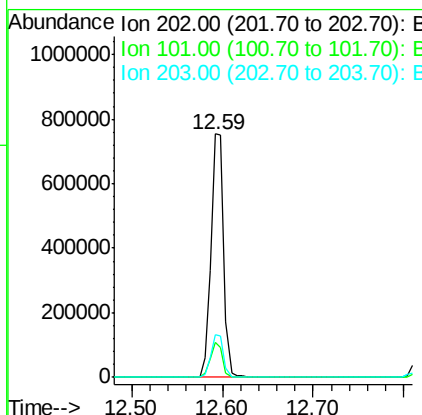
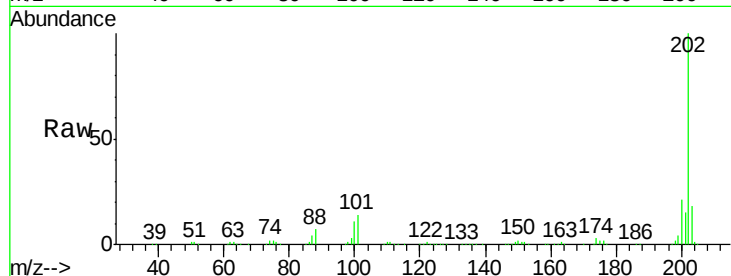




#74
 Fluoranthene
 Concen: 43.19 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

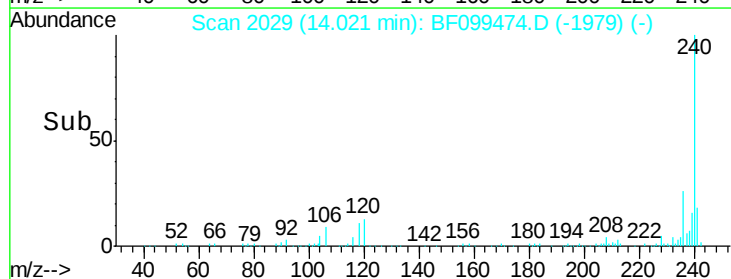
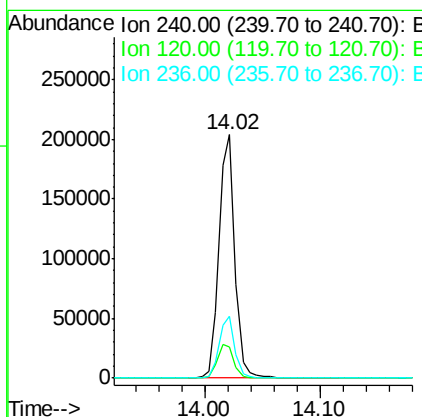
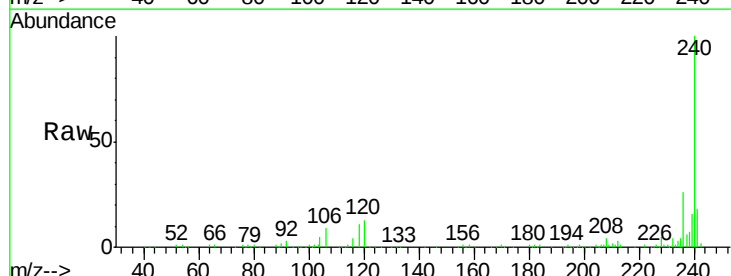
Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

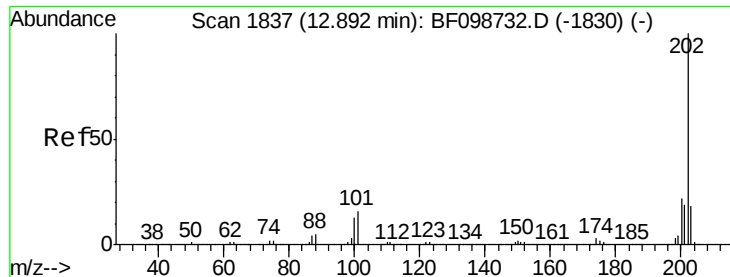
Tgt Ion: 202 Resp: 742831
 Ion Ratio Lower Upper
 202 100
 101 14.4 0.0 34.1
 203 17.7 0.0 38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion: 240 Resp: 194114
 Ion Ratio Lower Upper
 240 100
 120 12.9 9.5 14.3
 236 25.5 20.7 31.1

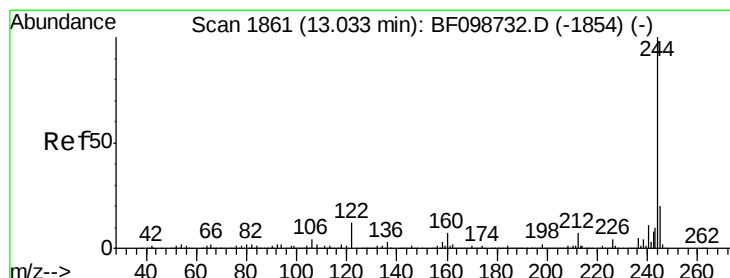
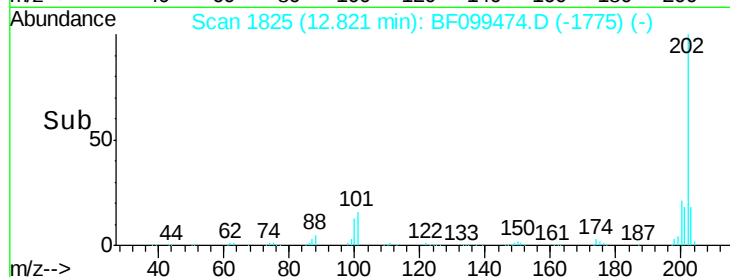
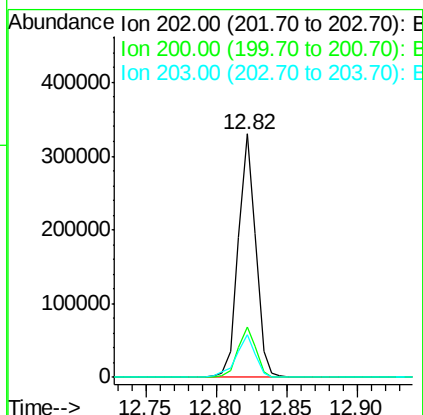
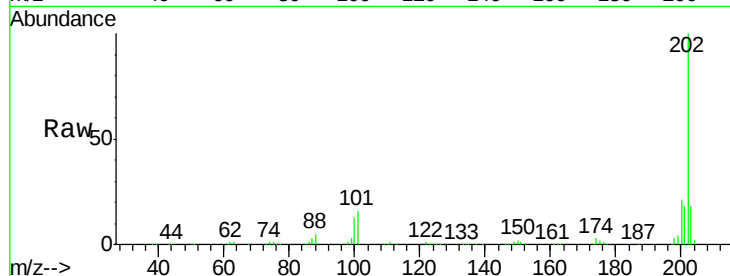




#77
 Pyrene
 Concen: 19.20 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

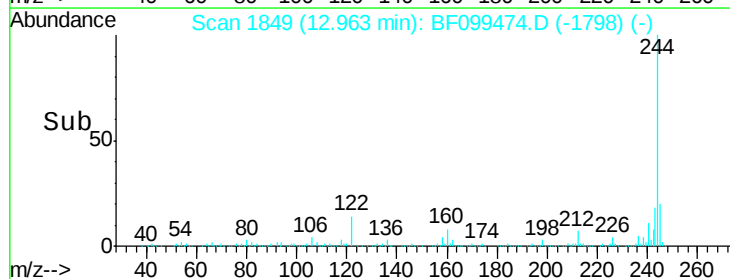
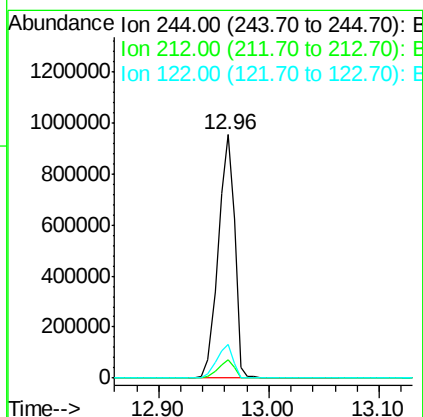
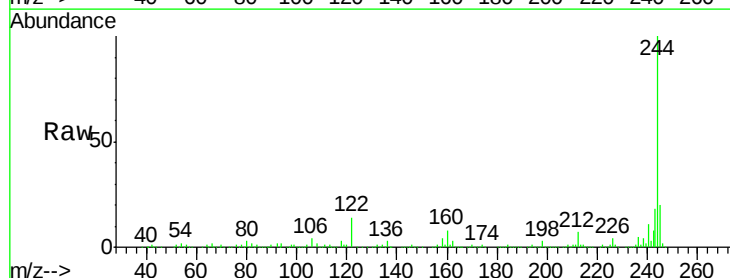
Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

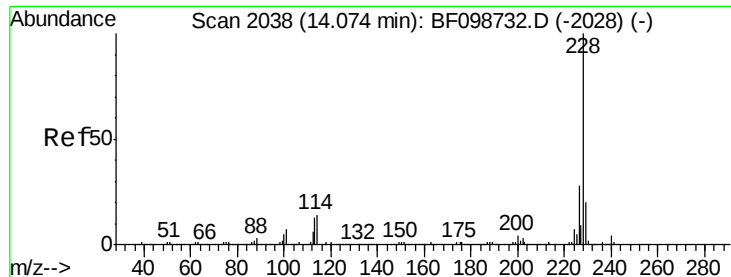
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.4	26.2
203	17.7	14.3	21.5



#78
 Terphenyl-d14
 Concen: 115.08 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. 0.00 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.4	8.0
122	13.6	11.0	16.4





#80

Benzo(a)anthracene

Concen: 7.67 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Instrument :

BNA_F

ClientSampleId :

4098-QC-1

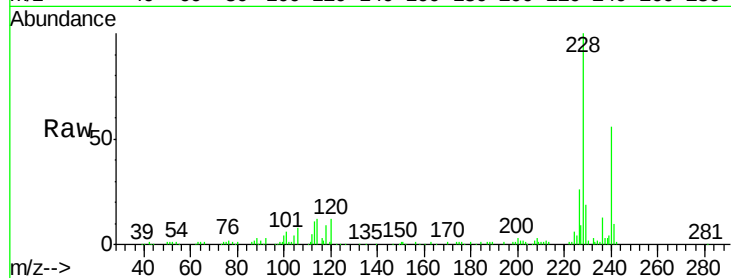
Tgt Ion:228 Resp: 90202

Ion Ratio Lower Upper

228 100

226 26.0 22.6 33.8

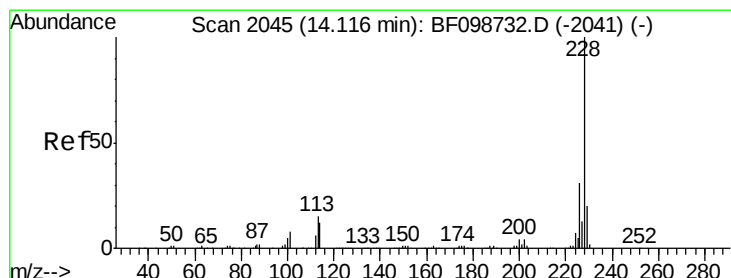
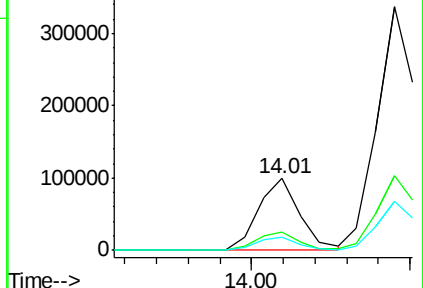
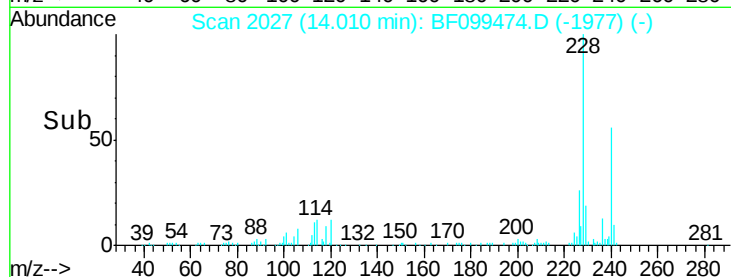
229 19.1 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 26.52 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

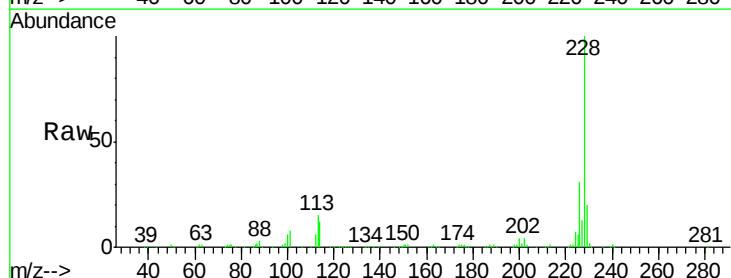
Tgt Ion:228 Resp: 296776

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

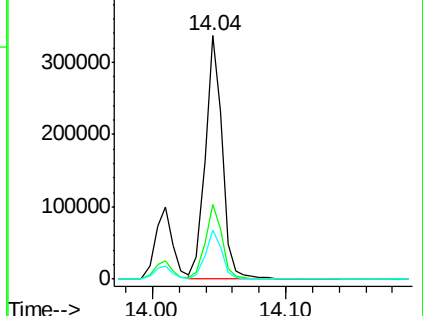
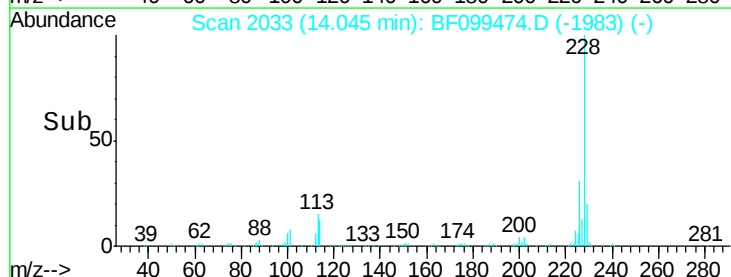
229 20.0 16.2 24.4

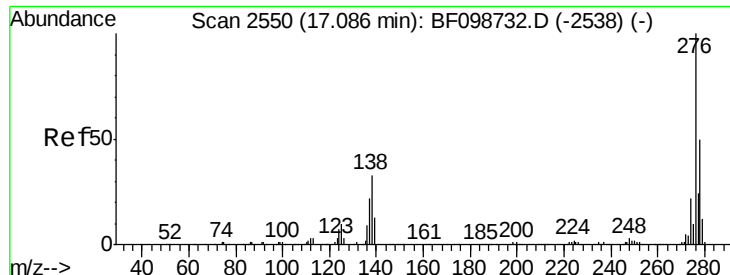


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

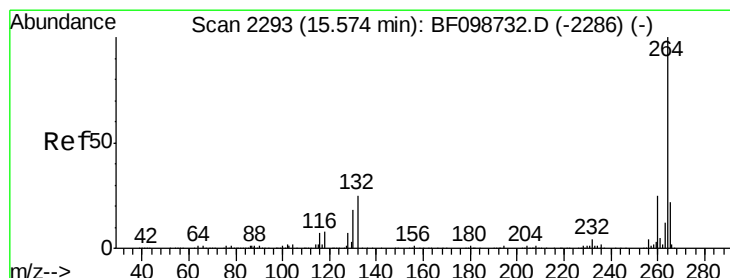
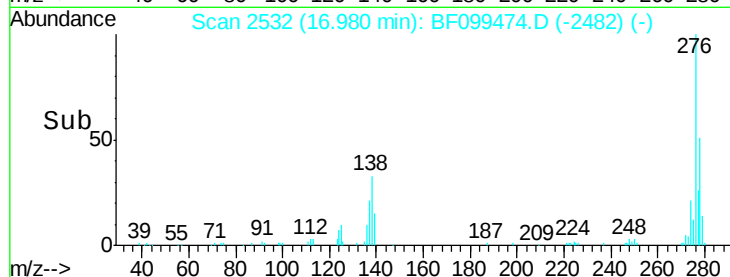
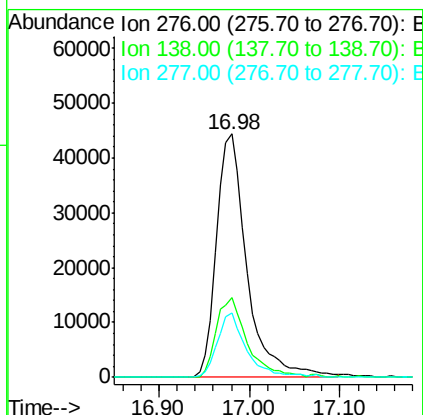
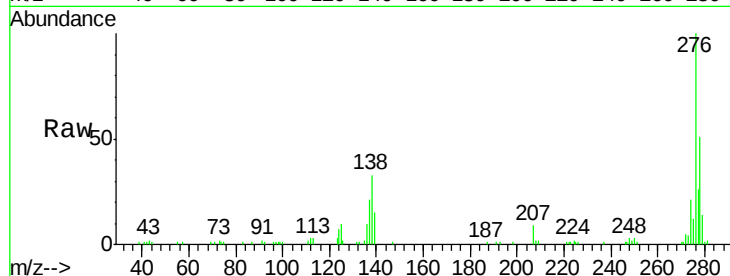




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.61 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.01 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

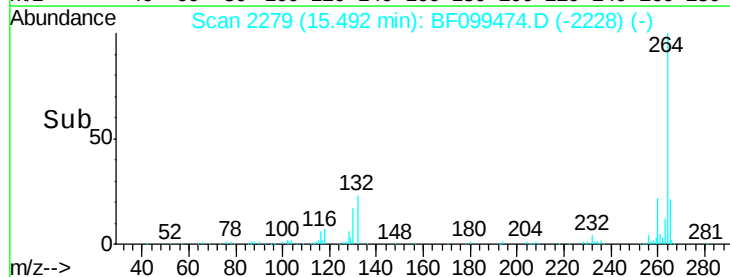
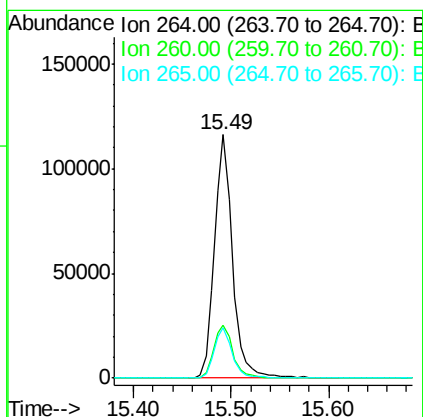
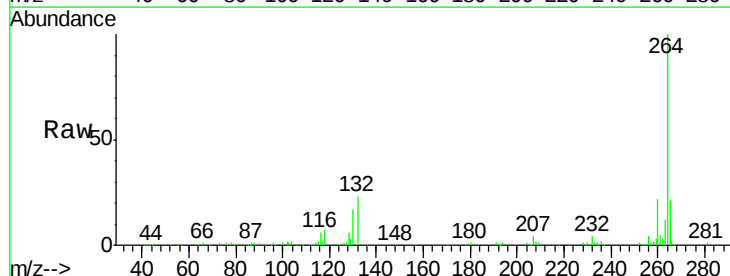
Instrument :
 BNA_F
 ClientSampleId :
 4098-QC-1

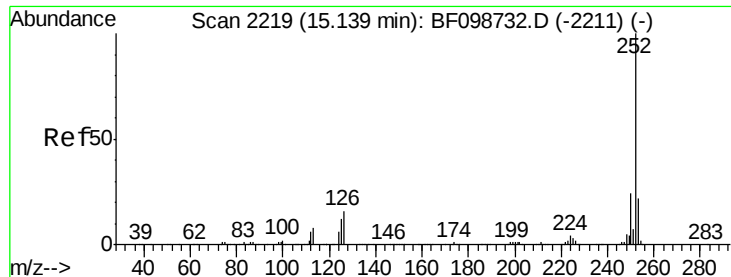
Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.9	25.0	37.6
277	24.2	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: BF099474.D
 Acq: 14 Oct 2017 13:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.0	19.2	28.8
265	20.7	17.5	26.3

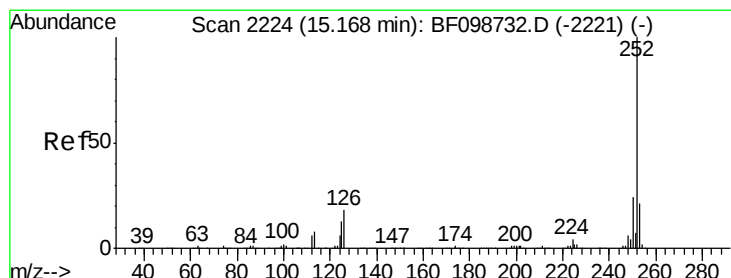
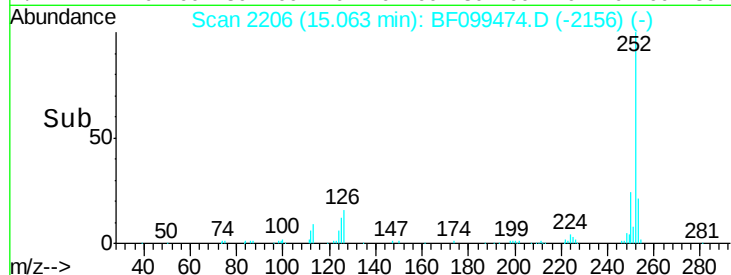
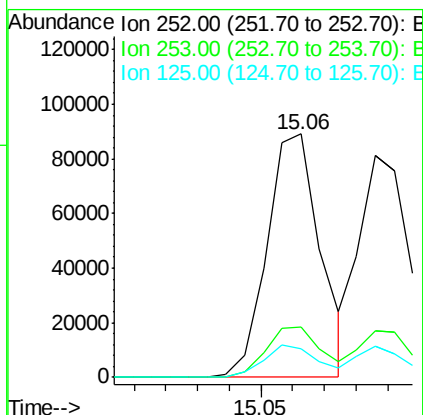
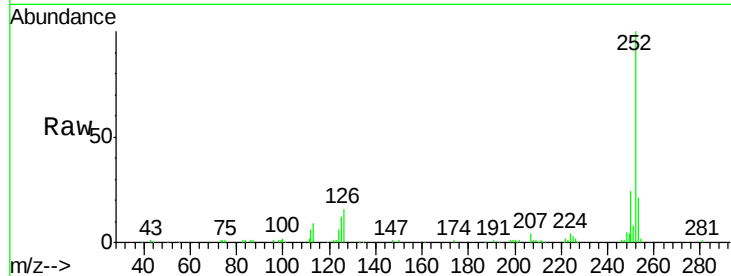




#87
Benzo(b)fluoranthene
Concen: 11.32 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF099474.D
Acq: 14 Oct 2017 13:59

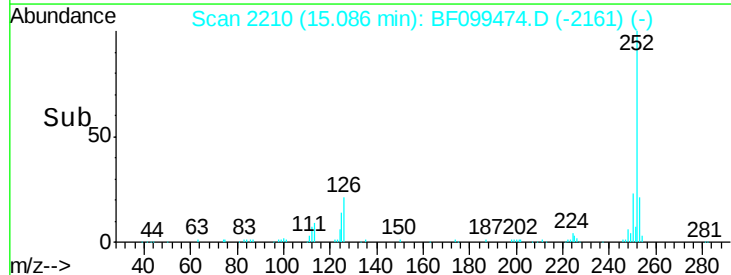
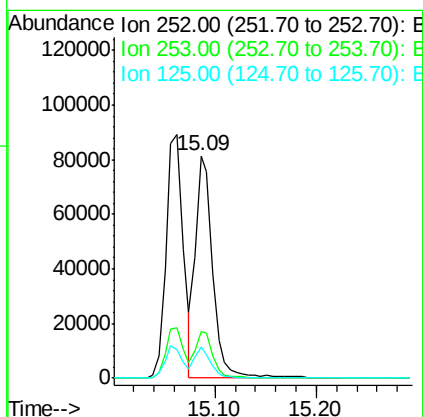
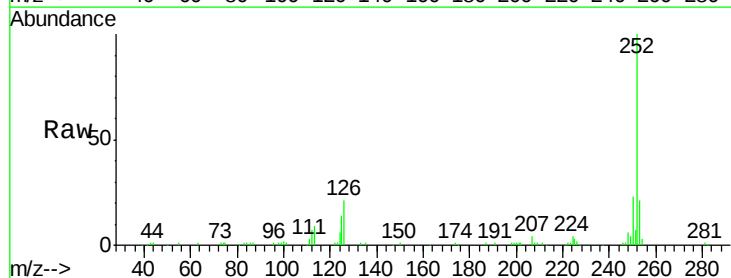
Instrument :
BNA_F
ClientSampleId :
4098-QC-1

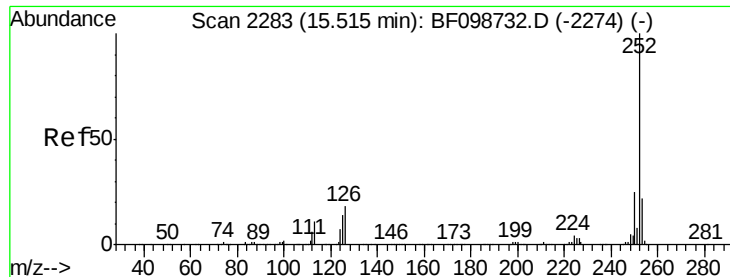
Tgt Ion:252 Resp: 104133
Ion Ratio Lower Upper
252 100
253 20.5 17.0 25.6
125 11.6 9.0 13.6



#88
Benzo(k)fluoranthene
Concen: 10.66 ng
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF099474.D
Acq: 14 Oct 2017 13:59

Tgt Ion:252 Resp: 96779
Ion Ratio Lower Upper
252 100
253 20.9 17.9 26.9
125 14.1 10.2 15.2





#89

Benzo(a)pyrene

Concen: 5.18 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

Instrument :

BNA_F

ClientSampleId :

4098-QC-1

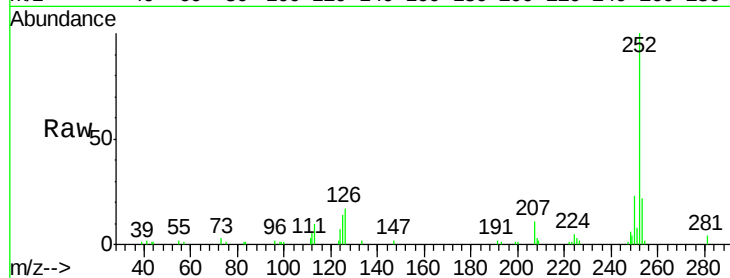
Tgt Ion:252 Resp: 43702

Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

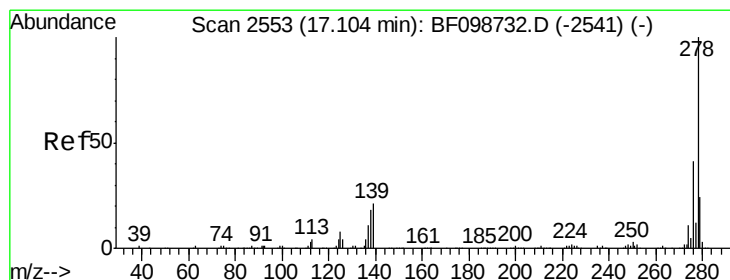
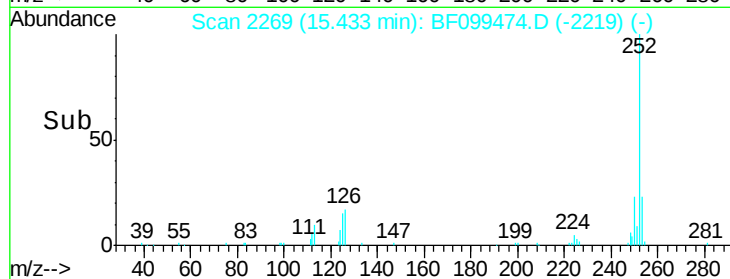
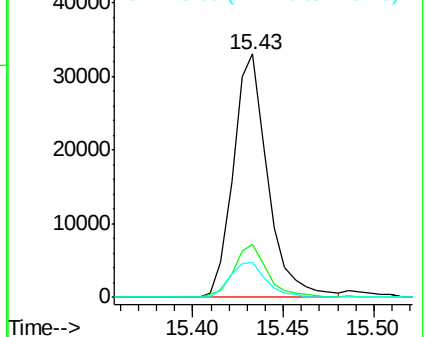
125 14.2 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 9.13 ng

RT: 16.99 min Scan# 2533

Delta R.T. -0.01 min

Lab File: BF099474.D

Acq: 14 Oct 2017 13:59

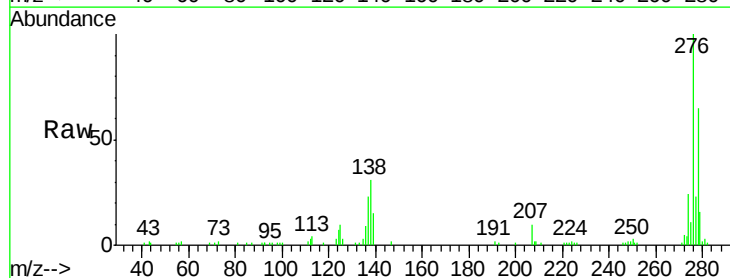
Tgt Ion:278 Resp: 61646

Ion Ratio Lower Upper

278 100

139 23.7 15.9 23.9

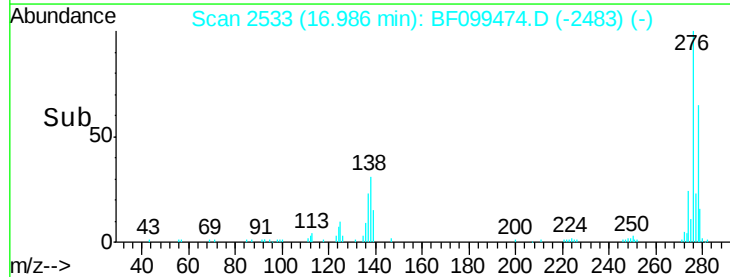
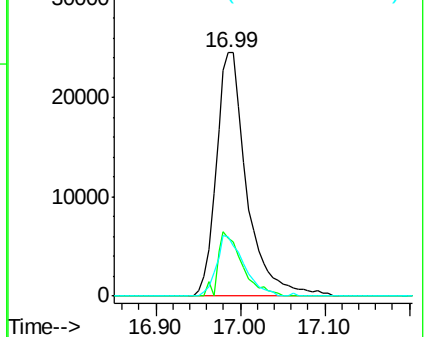
279 24.3 19.0 28.4

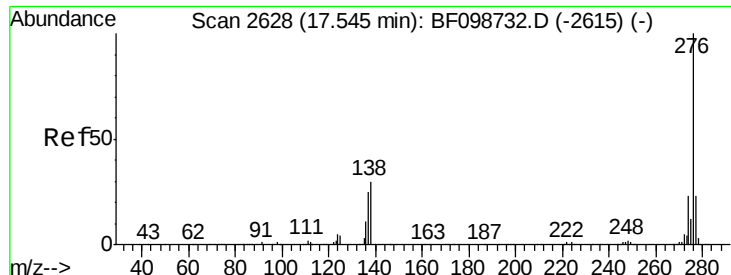


Abundance Ion 278.00 (277.70 to 278.70): E

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: 5.53 ng

RT: 17.43 min Scan# 2609

Delta R.T. -0.01 min

Lab File: BF099474.D

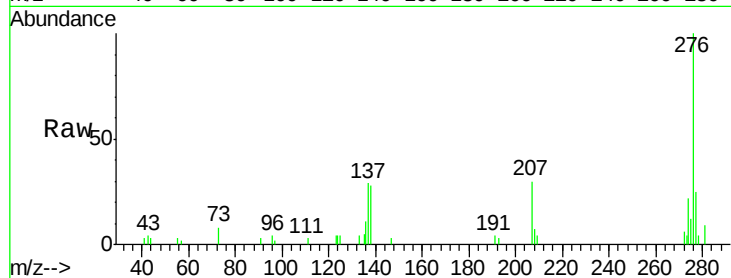
Acq: 14 Oct 2017 13:59

Instrument :

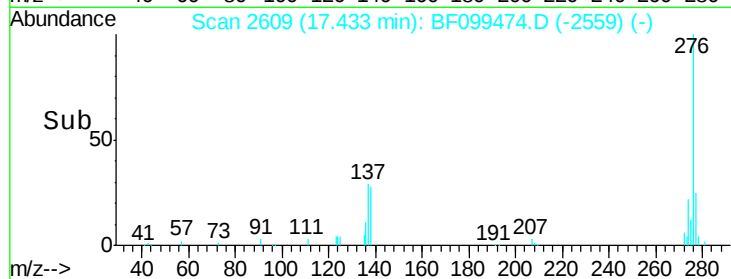
BNA_F

ClientSampleId :

4098-QC-1



Tgt Ion:	276	Resp:	36907
Ion Ratio		Lower	Upper
276	100		
277	25.1	17.9	26.9
138	28.1	21.8	32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

