

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
 Data File : BF077575.D
 Acq On : 4 Mar 2015 6:13
 Operator : TP/IZ
 Sample : G1332-05
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SA-2

Quant Time: Mar 04 07:09:37 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 04 04:46:40 2015
 Response via : Initial Calibration

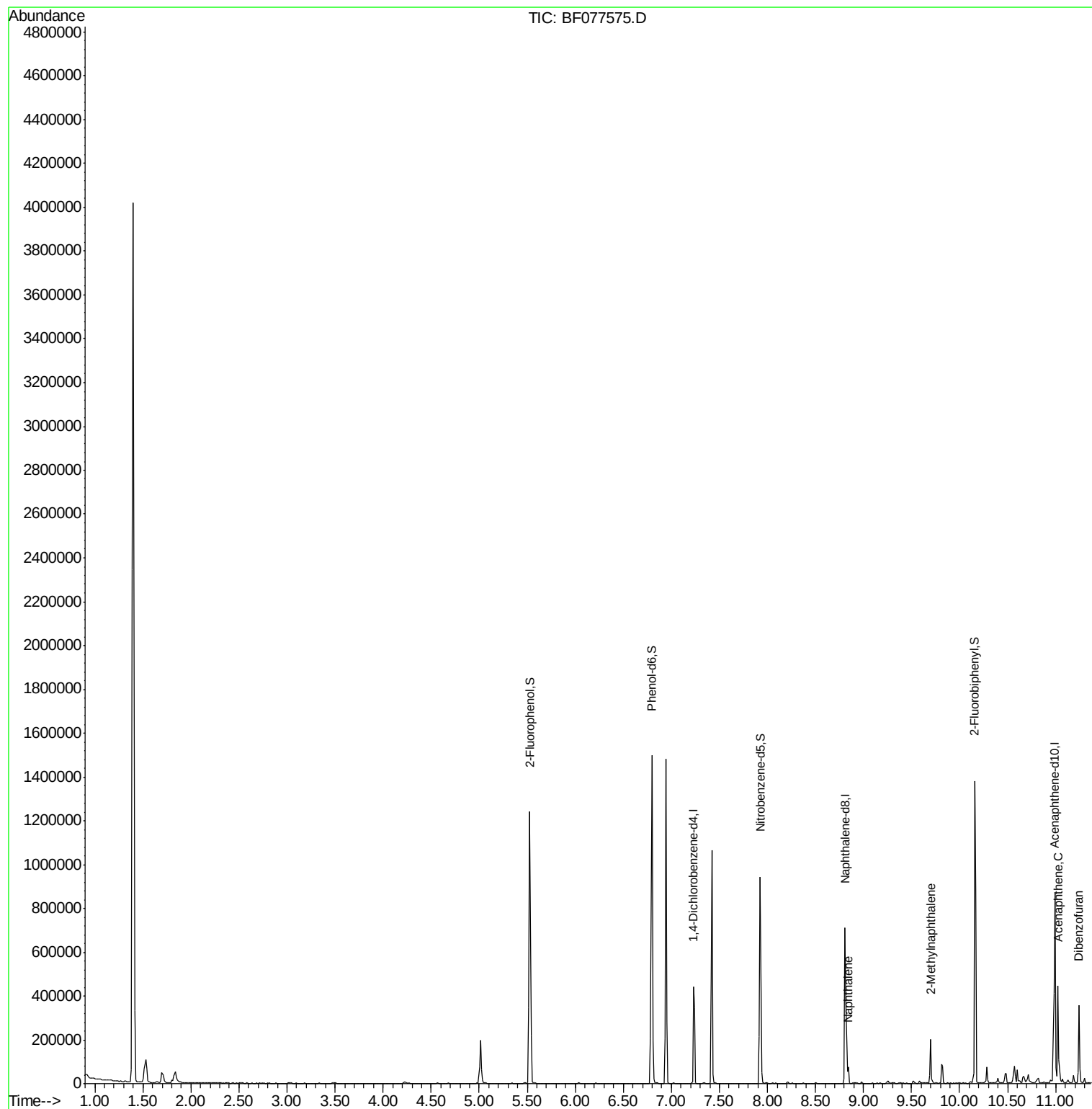
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.24	152	94577	20.00	ng	0.00
21) Naphthalene-d8	8.81	136	383224	20.00	ng	0.00
38) Acenaphthene-d10	10.99	164	195288	20.00	ng	0.00
63) Phenanthrene-d10	12.83	188	385553	20.00	ng	0.00
75) Chrysene-d12	16.12	240	416747	20.00	ng	0.00
86) Perylene-d12	17.87	264	412145	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	375226	66.23	ng	0.00
7) Phenol-d6	6.80	99	481943	66.16	ng	0.00
23) Nitrobenzene-d5	7.93	82	287119	46.59	ng	0.00
41) 2,4,6-Tribromophenol	11.97	330	114787	61.04	ng	0.00
44) 2-Fluorobiphenyl	10.16	172	561508	44.83	ng	0.00
78) Terphenyl-d14	14.83	244	685282	38.44	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.84	128	41673	2.17	ng	98
37) 2-Methylnaphthalene	9.70	142	55569	4.08	ng	100
51) Acenaphthene	11.03	154	98764	9.01	ng	98
54) Dibenzofuran	11.24	168	134502	7.95	ng	100
57) Fluorene	11.67	166	95931	7.09	ng	97
70) Phenanthrene	12.86	178	868050	38.85	ng	99
71) Anthracene	12.92	178	199290	8.99	ng	98
72) Carbazole	13.13	167	118750	5.63	ng	99
74) Fluoranthene	14.34	202	839083	34.37	ng	100
77) Pyrene	14.62	202	679113	26.64	ng	# 95
80) Benzo(a)anthracene	16.11	228	398055	16.30	ng	99
82) Chrysene	16.15	228	292901	12.77	ng	97
85) Indeno(1,2,3-cd)pyrene	19.30	276	151609	5.80	ng	95
87) Benzo(b)fluoranthene	17.43	252	531684	22.18	ng	# 96
88) Benzo(k)fluoranthene	17.43	252	533791	22.73	ng	99
89) Benzo(a)pyrene	17.80	252	287686	12.60	ng	98
91) Benzo(g,h,i)perylene	19.73	276	145639	6.63	ng	96

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

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Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SA-2

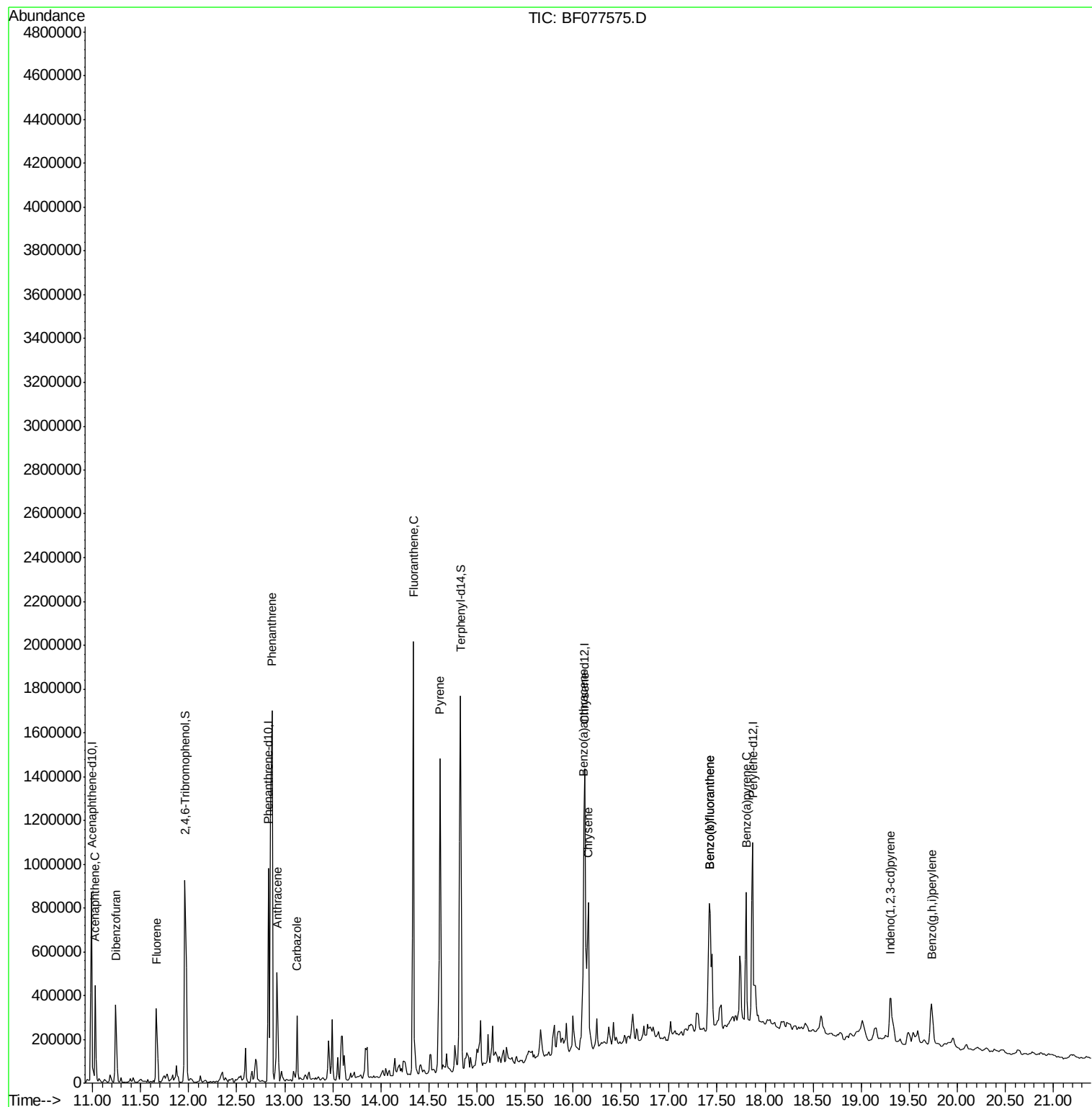
Quant Time: Mar 04 07:09:37 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 04 04:46:40 2015
Response via : Initial Calibration

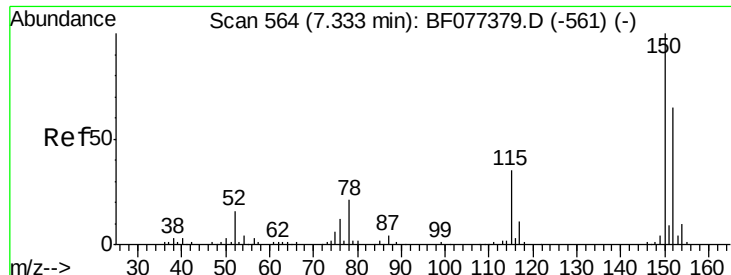


Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030315\
Data File : BF077575.D
Acq On : 4 Mar 2015 6:13
Operator : TP/IZ
Sample : G1332-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SA-2

Quant Time: Mar 04 07:09:37 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 04 04:46:40 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.24 min Scan# 556

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

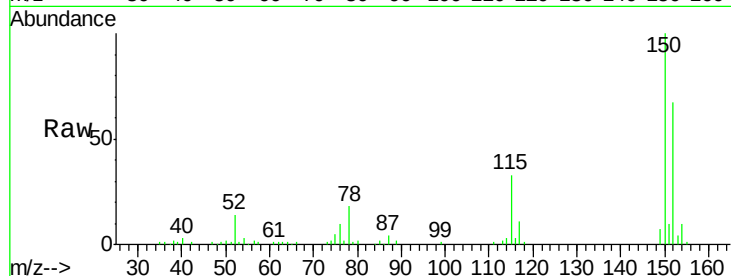
Tgt Ion:152 Resp: 94577

Ion Ratio Lower Upper

152 100

150 148.7 124.0 186.0

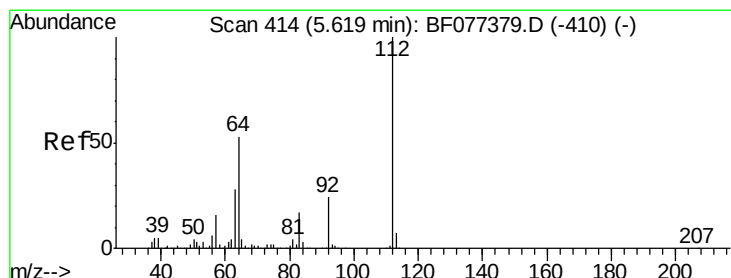
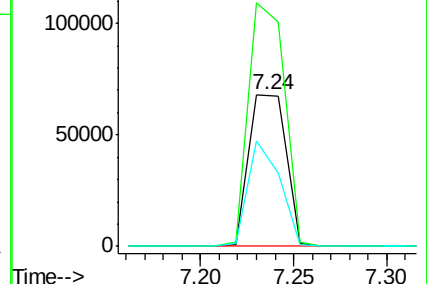
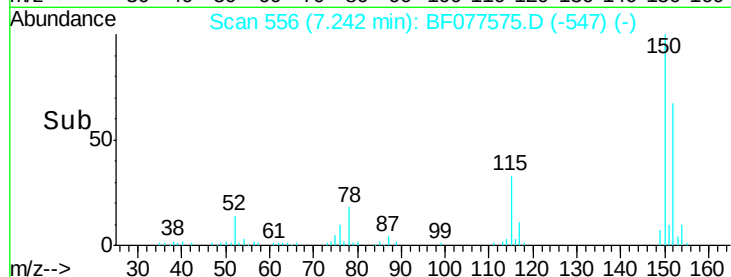
115 48.7 49.4 74.2#



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: 66.23 ng

RT: 5.53 min Scan# 406

Delta R.T. 0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

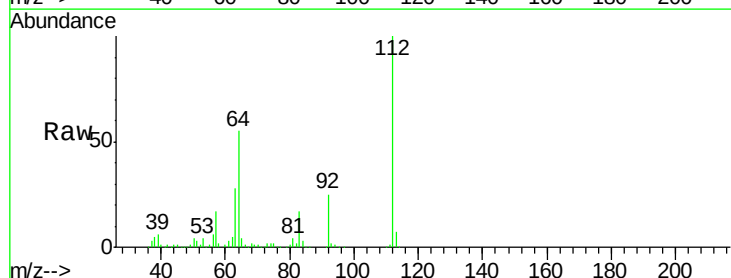
Tgt Ion:112 Resp: 375226

Ion Ratio Lower Upper

112 100

64 54.9 48.5 72.7

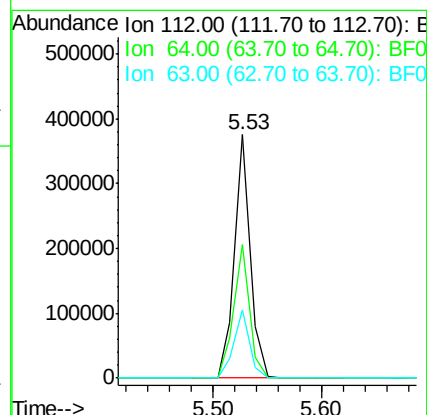
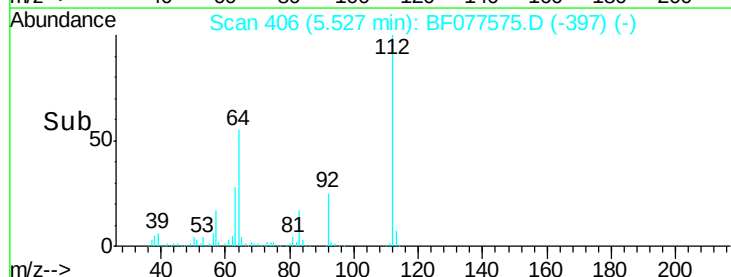
63 28.0 25.0 37.4

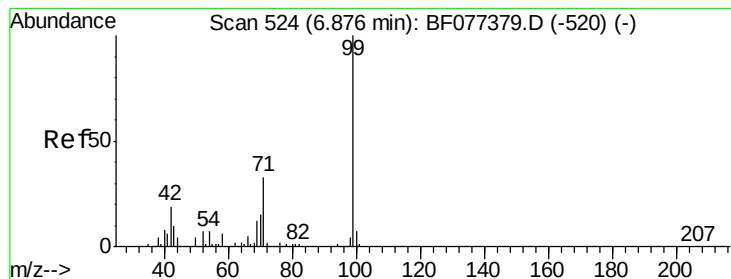


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 66.16 ng

RT: 6.80 min Scan# 517

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

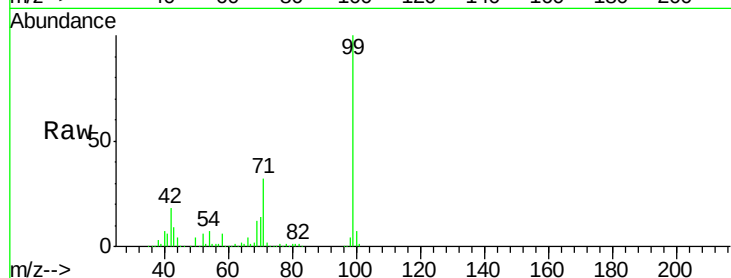
Tgt Ion: 99 Resp: 481943

Ion Ratio Lower Upper

99 100

42 18.1 16.2 24.4

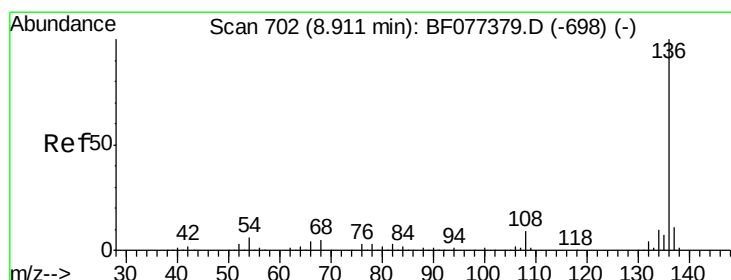
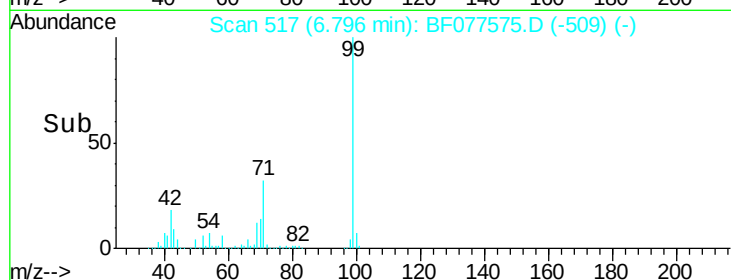
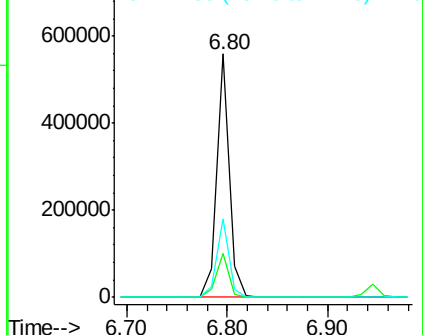
71 32.5 26.7 40.1



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: 8.81 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Tgt Ion: 136 Resp: 383224

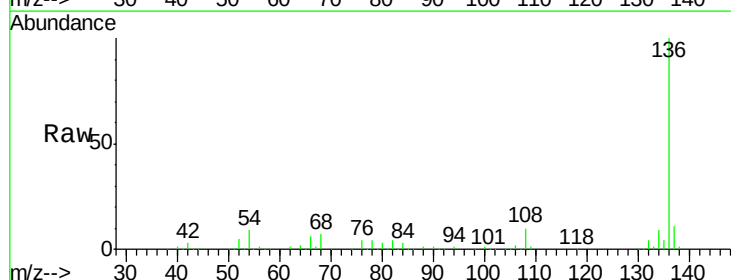
Ion Ratio Lower Upper

136 100

137 11.3 8.6 13.0

54 8.7 6.2 9.4

68 7.0 5.0 7.6

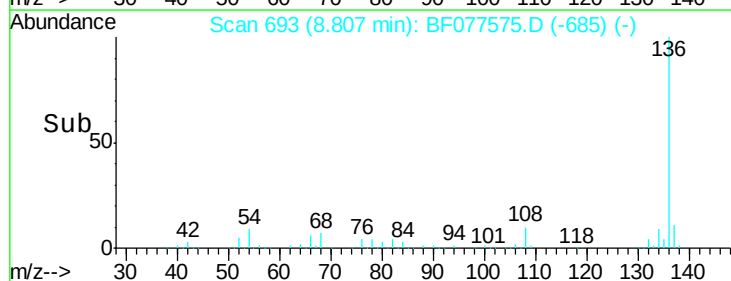
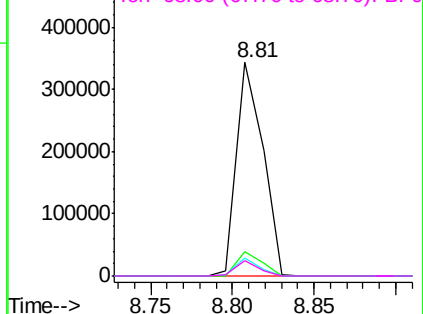


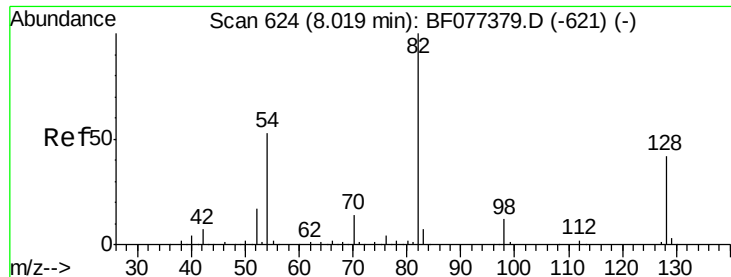
Abundance Ion 136.00 (135.70 to 136.70): E

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

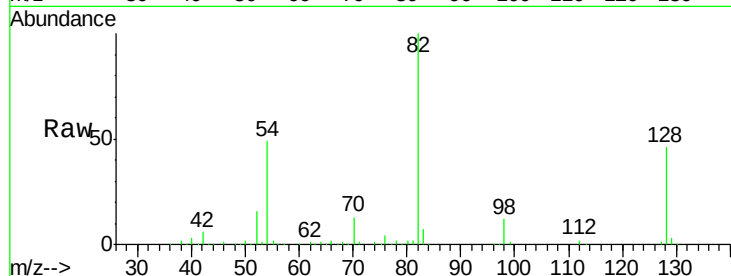




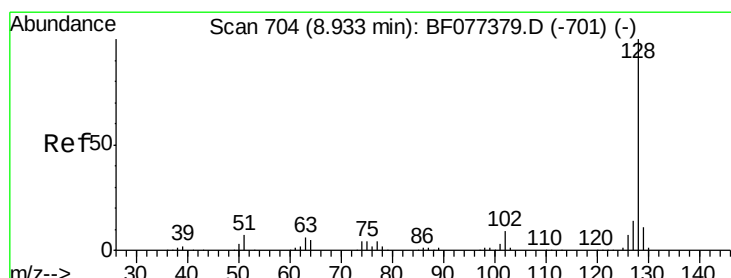
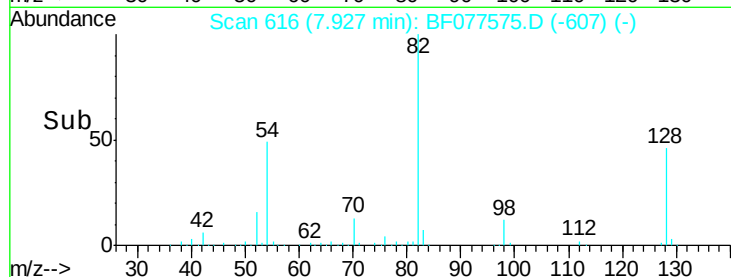
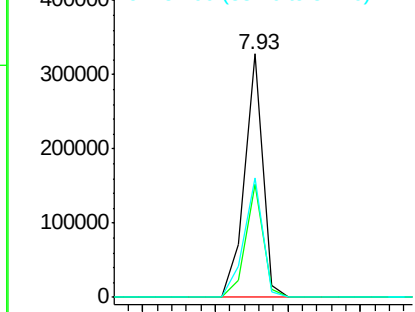
#23
Nitrobenzene-d5
Concen: 46.59 ng
RT: 7.93 min Scan# 616
Delta R.T. -0.00 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

Instrument :
BNA_F
ClientSampleId :
SA-2

Tgt Ion: 82 Resp: 287119
Ion Ratio Lower Upper
82 100
128 46.2 43.8 65.8
54 49.0 36.7 55.1

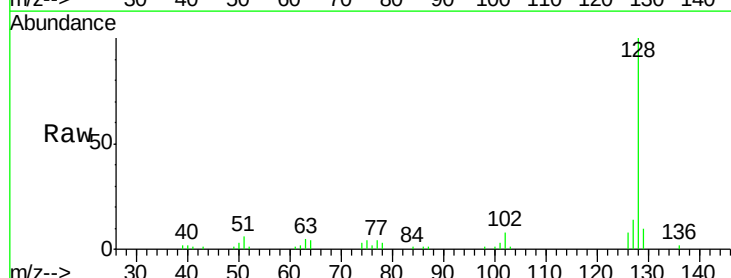


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

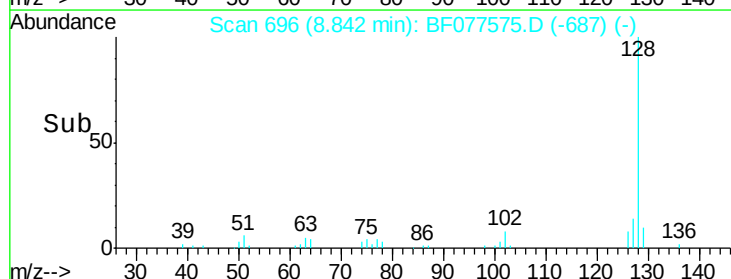
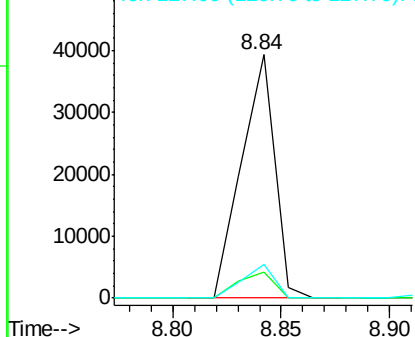


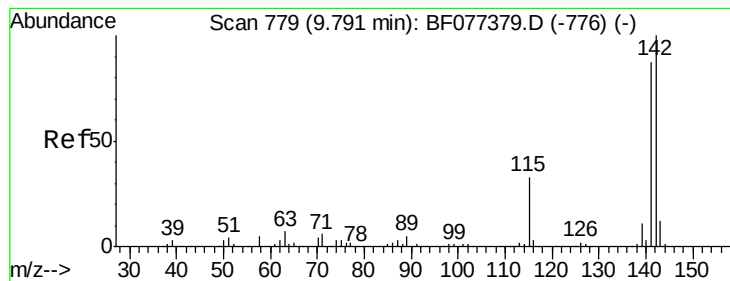
#31
Naphthalene
Concen: 2.17 ng
RT: 8.84 min Scan# 696
Delta R.T. -0.00 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

Tgt Ion: 128 Resp: 41673
Ion Ratio Lower Upper
128 100
129 10.5 9.4 14.0
127 13.6 10.6 15.8



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: 4.08 ng

RT: 9.70 min Scan# 771

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

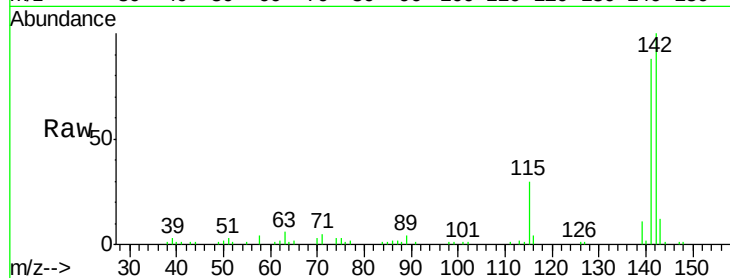
Tgt Ion:142 Resp: 55569

Ion Ratio Lower Upper

142 100

141 87.9 70.7 106.1

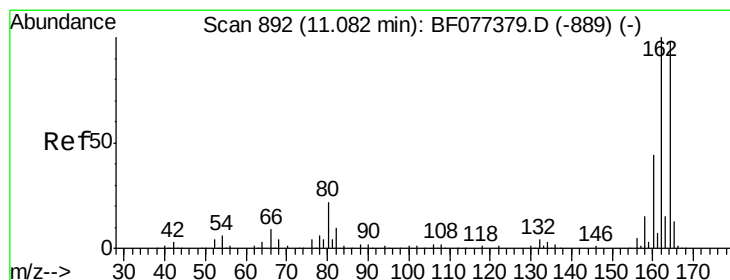
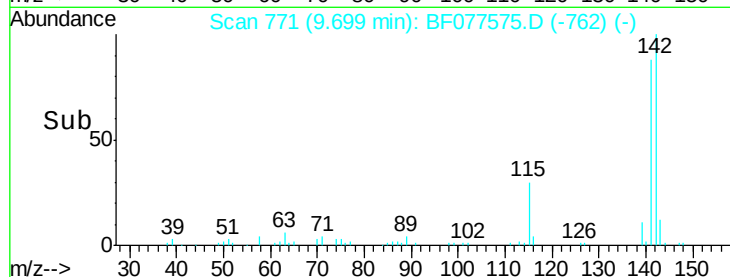
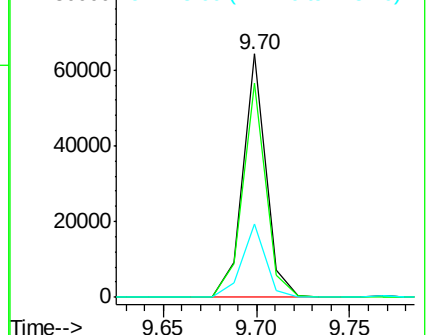
115 30.3 24.2 36.4



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: 10.99 min Scan# 884

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

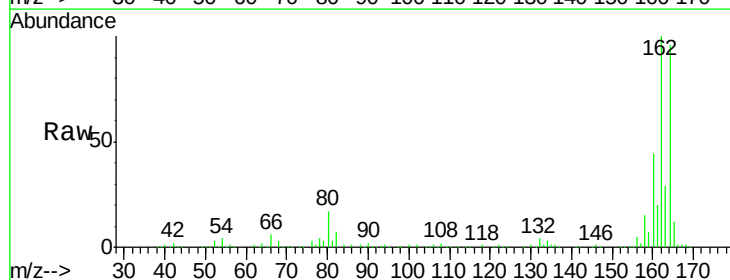
Tgt Ion:164 Resp: 195288

Ion Ratio Lower Upper

164 100

162 103.9 83.2 124.8

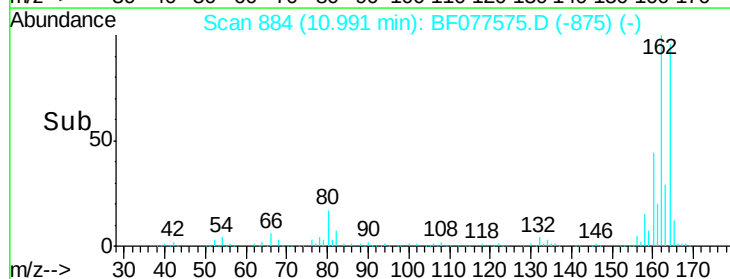
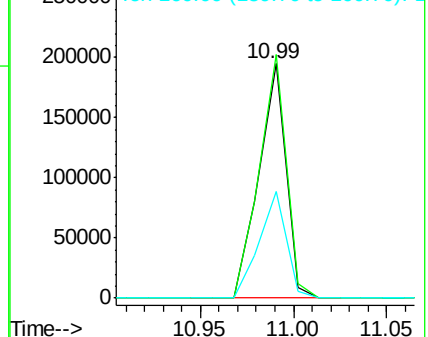
160 45.6 34.6 52.0

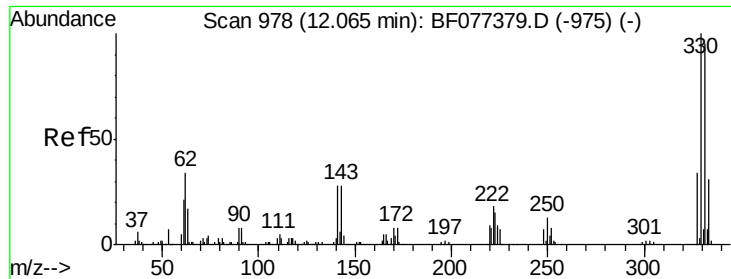


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

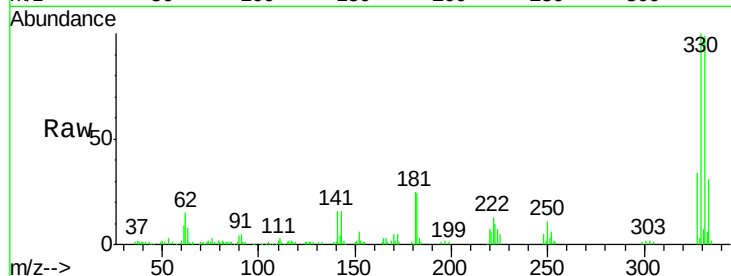




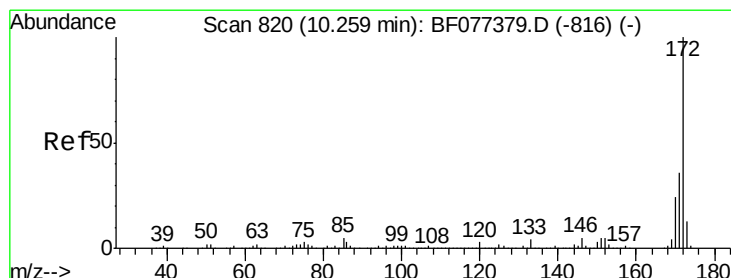
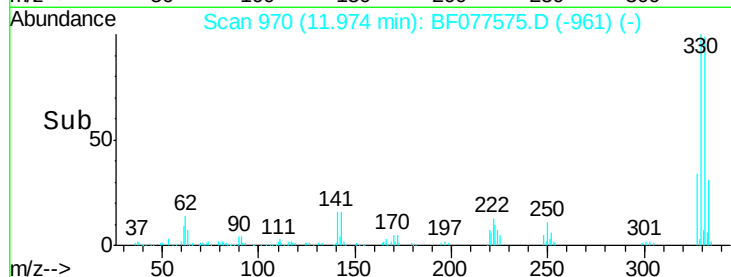
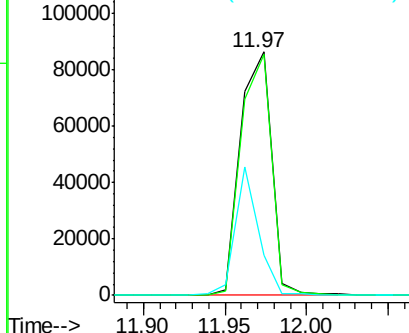
#41
 2,4,6-Tribromophenol
 Concen: 61.04 ng
 RT: 11.97 min Scan# 970
 Delta R.T. -0.00 min
 Lab File: BF077575.D
 Acq: 4 Mar 2015 6:13

Instrument :
 BNA_F
 ClientSampled :
 SA-2

Tgt Ion:330 Resp: 114787
 Ion Ratio Lower Upper
 330 100
 332 97.0 77.4 116.2
 141 39.1 28.8 43.2

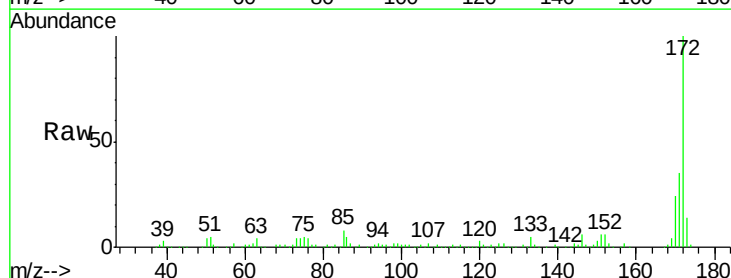


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

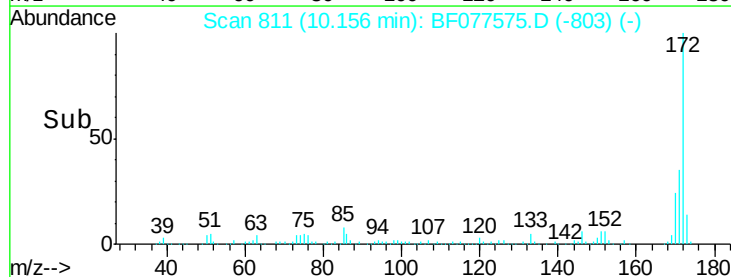
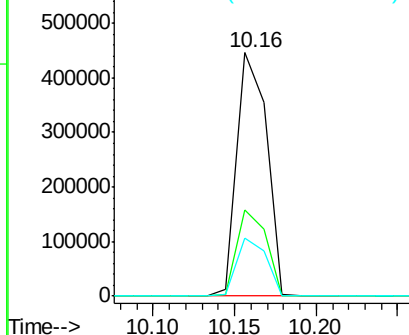


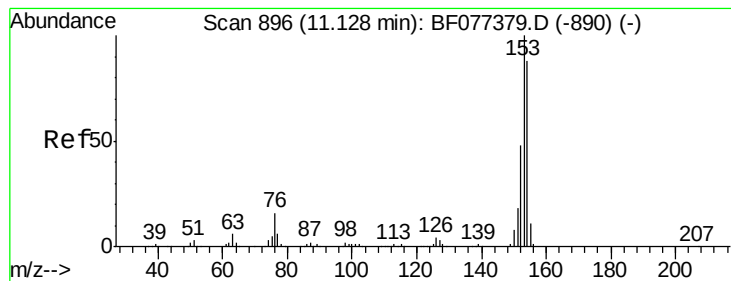
#44
 2-Fluorobiphenyl
 Concen: 44.83 ng
 RT: 10.16 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: BF077575.D
 Acq: 4 Mar 2015 6:13

Tgt Ion:172 Resp: 561508
 Ion Ratio Lower Upper
 172 100
 171 35.4 28.9 43.3
 170 23.6 19.4 29.2



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





#51

Acenaphthene

Concen: 9.01 ng

RT: 11.03 min Scan# 887

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

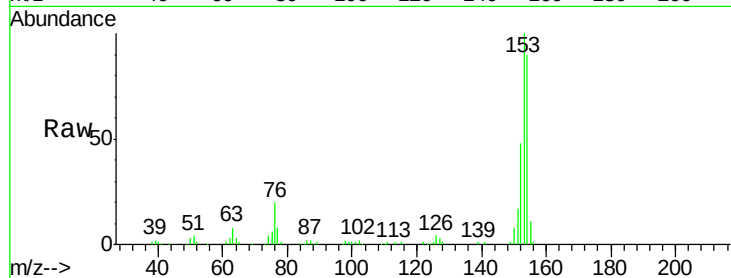
Tgt Ion:154 Resp: 98764

Ion Ratio Lower Upper

154 100

153 111.2 90.5 135.7

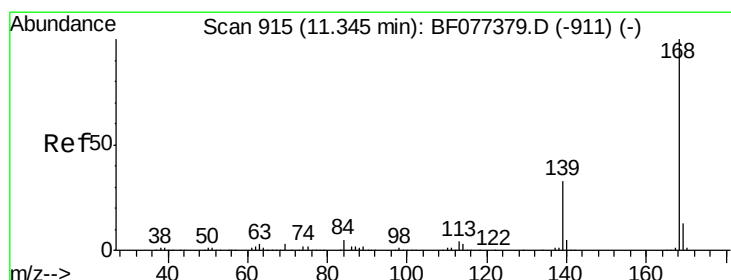
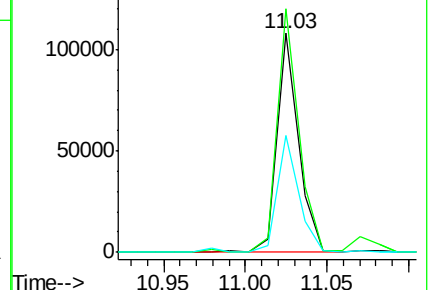
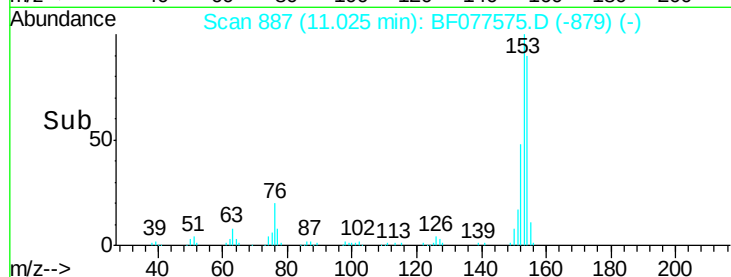
152 53.5 43.5 65.3



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

Dibenzofuran

Concen: 7.95 ng

RT: 11.24 min Scan# 906

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

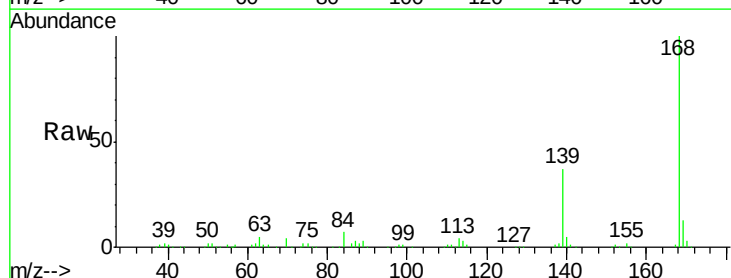
Tgt Ion:168 Resp: 134502

Ion Ratio Lower Upper

168 100

139 36.8 29.3 43.9

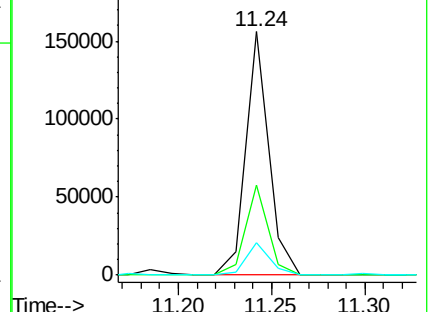
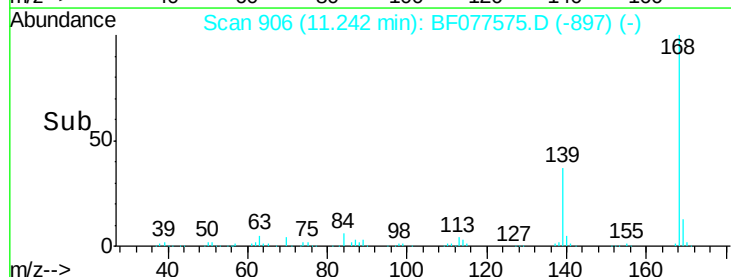
169 13.4 10.9 16.3

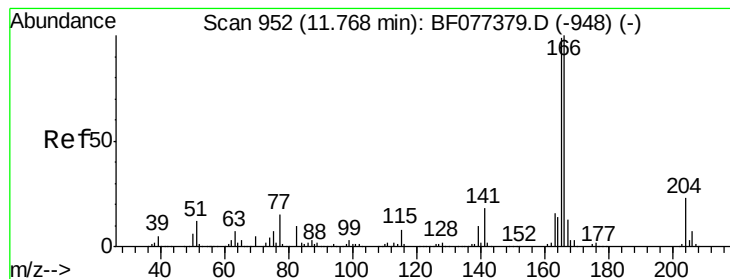


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 7.09 ng

RT: 11.67 min Scan# 943

Delta R.T. -0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

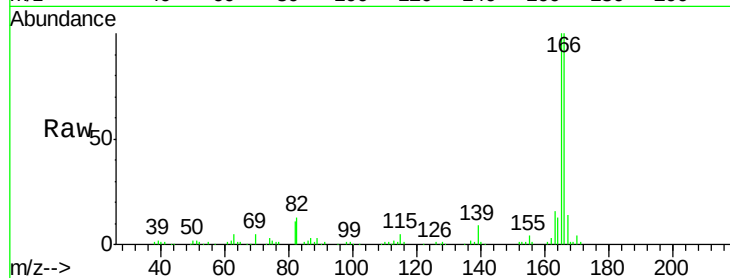
Tgt Ion:166 Resp: 95931

Ion Ratio Lower Upper

166 100

165 100.4 77.6 116.4

167 14.4 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

120000

100000

80000

60000

40000

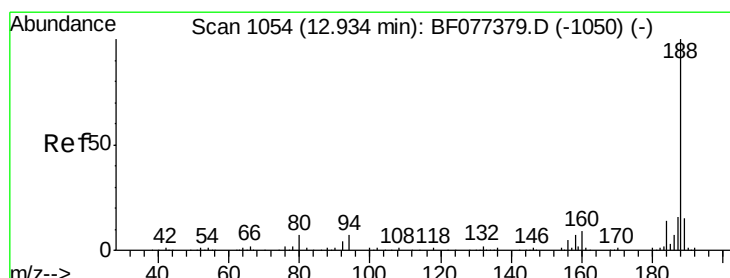
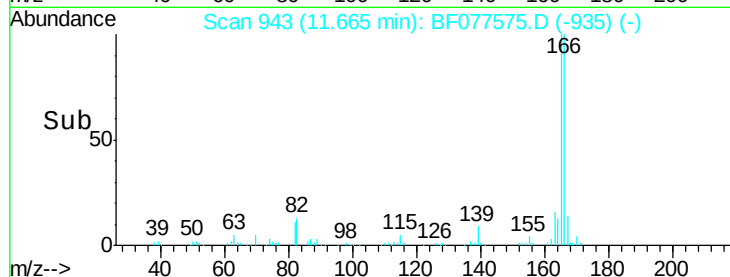
20000

0

11.60

11.70

Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.83 min Scan# 1045

Delta R.T. 0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

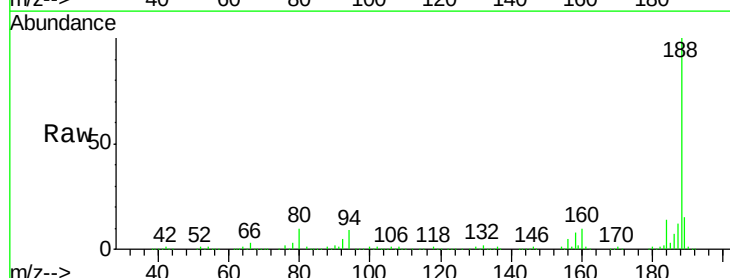
Tgt Ion:188 Resp: 385553

Ion Ratio Lower Upper

188 100

94 9.4 7.4 11.2

80 9.8 8.0 12.0



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

500000

400000

300000

200000

100000

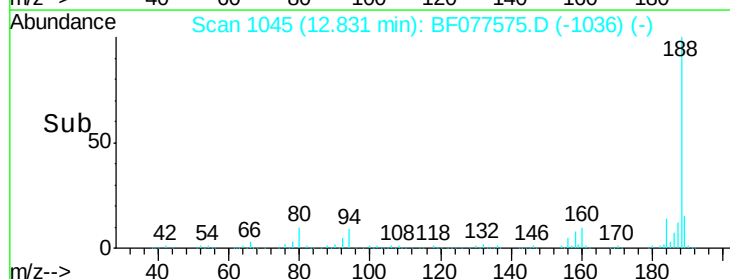
0

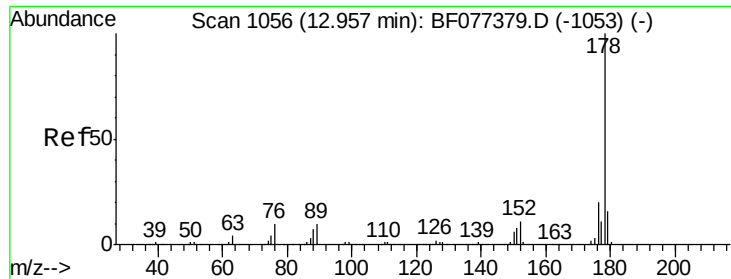
12.75

12.80

12.85

Time-->

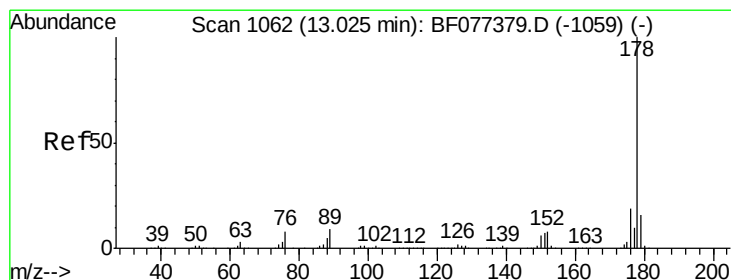
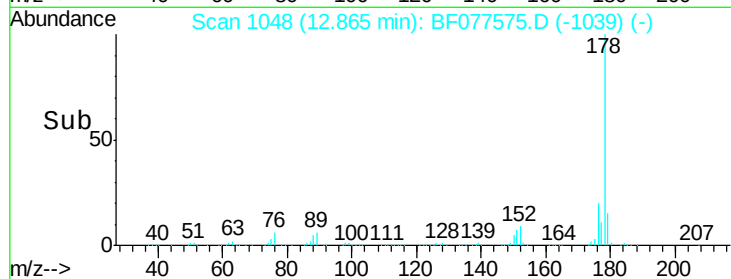
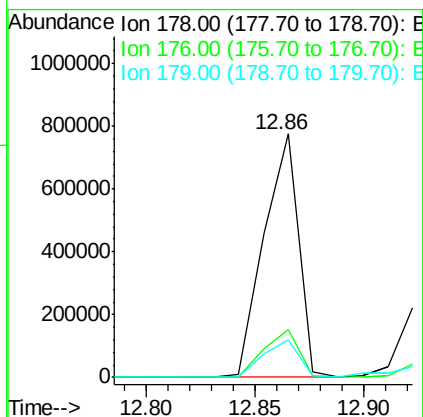
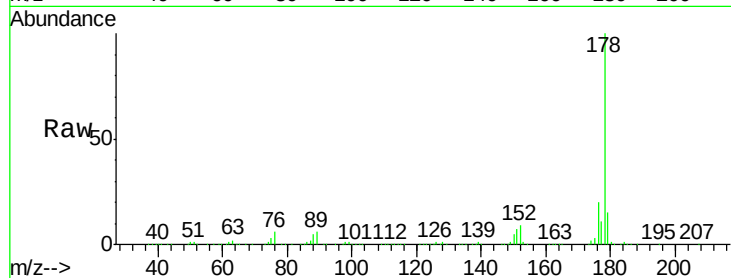




#70
Phenanthrene
Concen: 38.85 ng
RT: 12.86 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

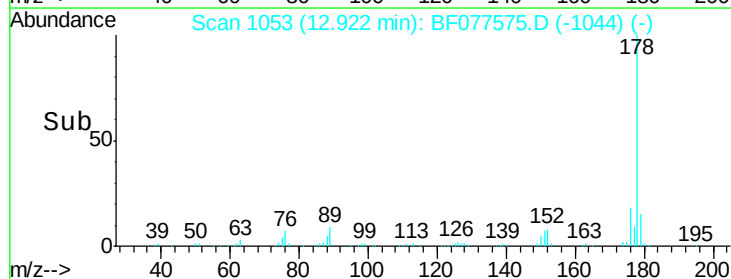
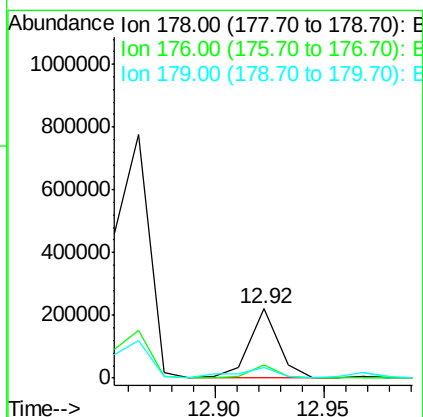
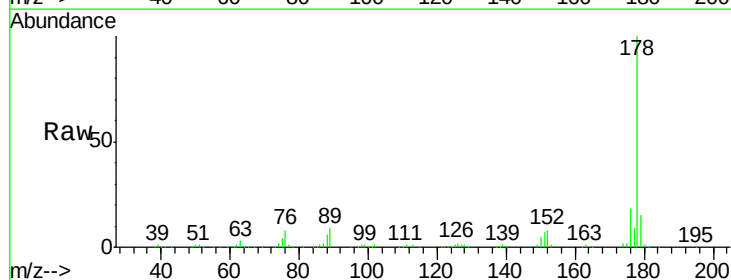
Instrument :
BNA_F
ClientSampleId :
SA-2

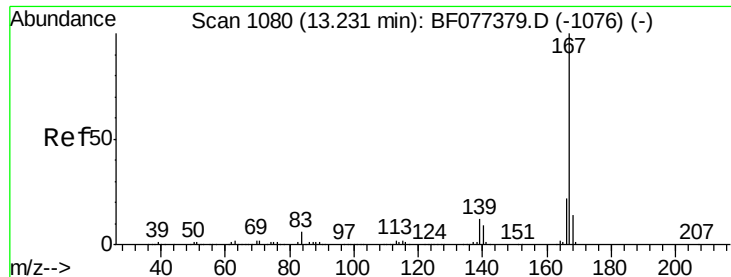
Tgt Ion:178 Resp: 868050
Ion Ratio Lower Upper
178 100
176 19.8 15.5 23.3
179 15.3 12.2 18.2



#71
Anthracene
Concen: 8.99 ng
RT: 12.92 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

Tgt Ion:178 Resp: 199290
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.0
179 15.1 12.9 19.3

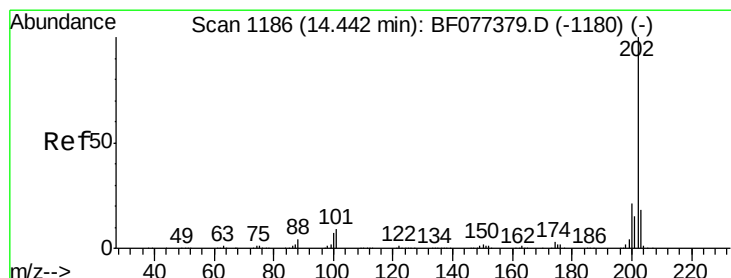
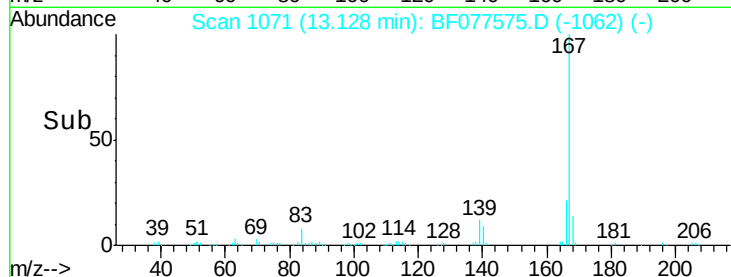
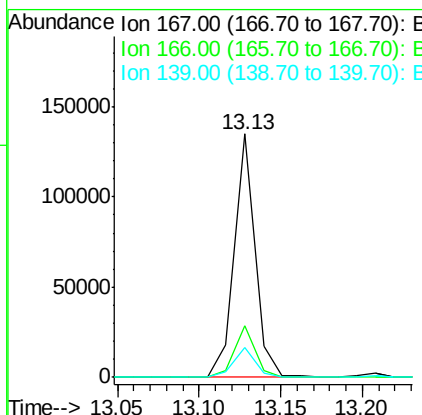
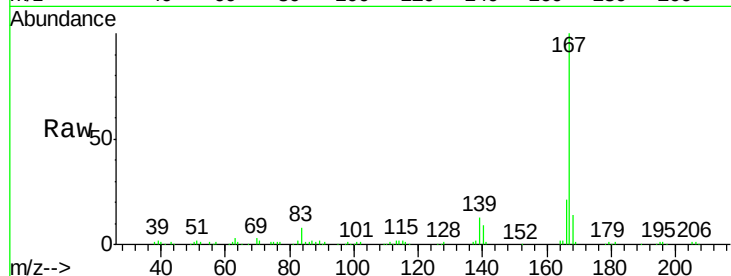




#72
 Carbazole
 Concen: 5.63 ng
 RT: 13.13 min Scan# 1071
 Delta R.T. -0.00 min
 Lab File: BF077575.D
 Acq: 4 Mar 2015 6:13

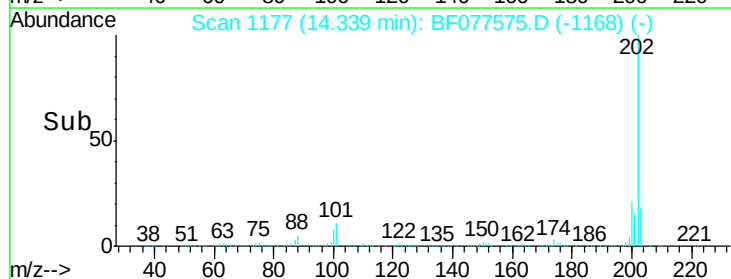
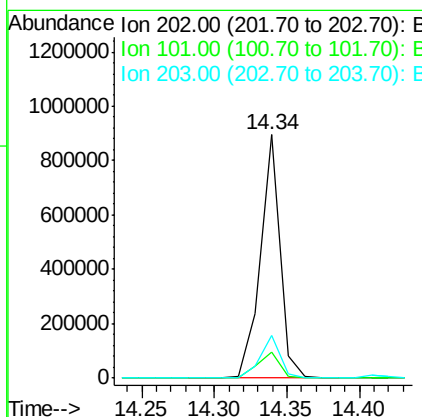
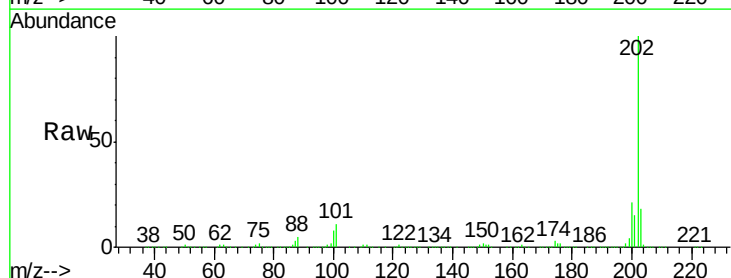
Instrument :
 BNA_F
 ClientSampleId :
 SA-2

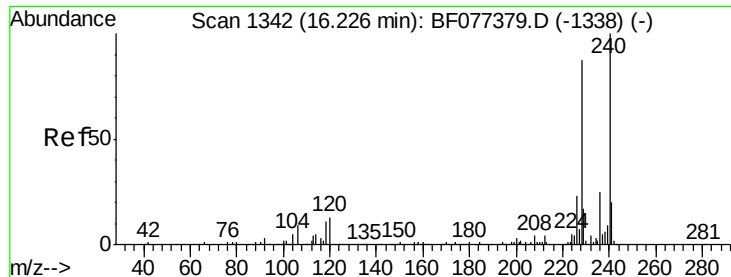
Tgt Ion:167 Resp: 118750
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.6 26.4
 139 12.5 9.9 14.9



#74
 Fluoranthene
 Concen: 34.37 ng
 RT: 14.34 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: BF077575.D
 Acq: 4 Mar 2015 6:13

Tgt Ion:202 Resp: 839083
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 30.8
 203 17.7 0.0 37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.12 min Scan# 1333

Delta R.T. 0.01 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

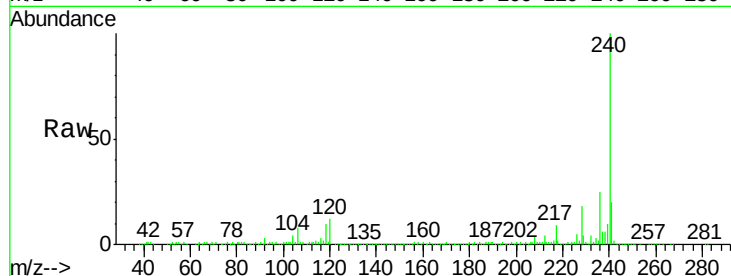
Tgt Ion:240 Resp: 416747

Ion Ratio Lower Upper

240 100

120 11.5 8.8 13.2

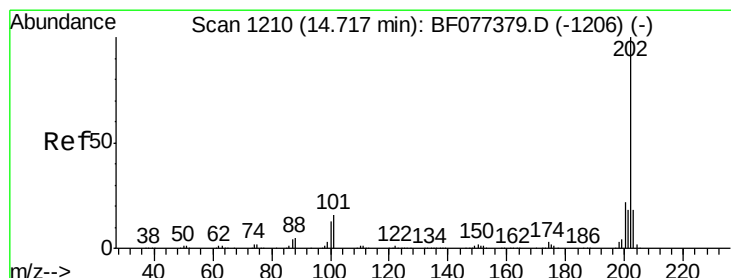
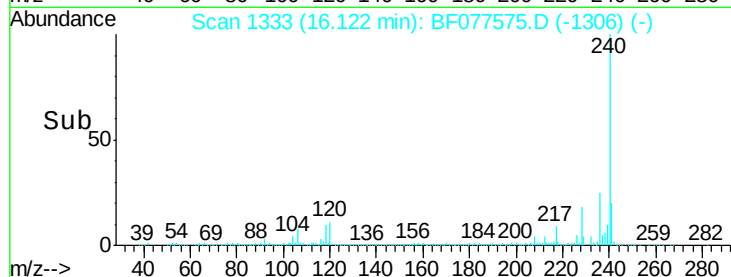
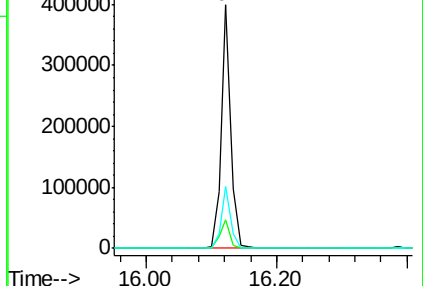
236 25.5 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 26.64 ng

RT: 14.62 min Scan# 1201

Delta R.T. 0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

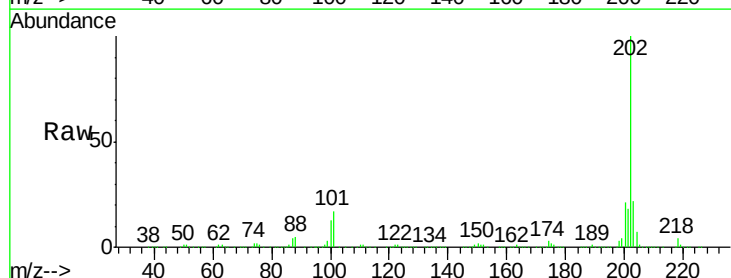
Tgt Ion:202 Resp: 679113

Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

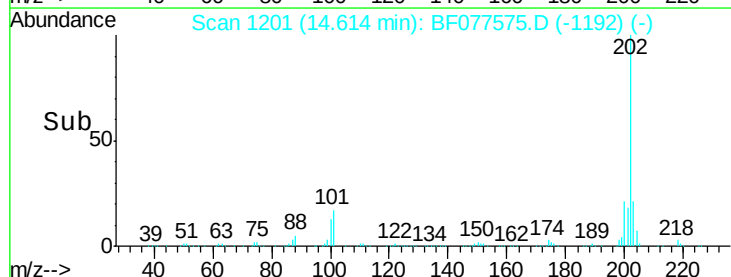
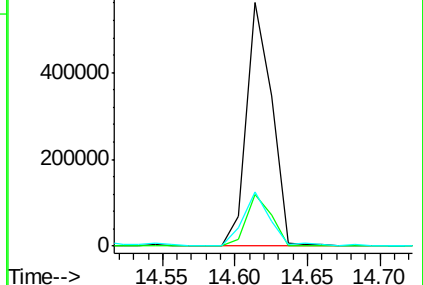
203 22.3 14.2 21.2#

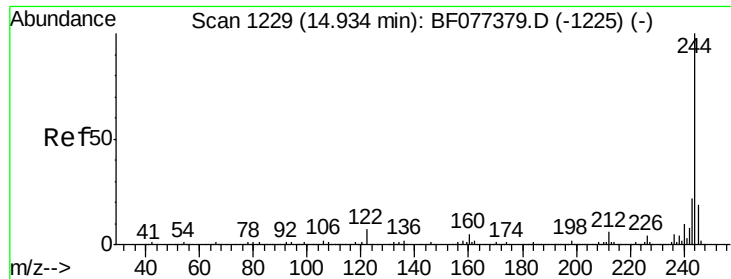


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

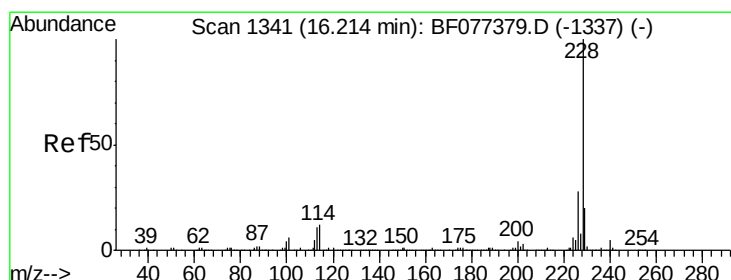
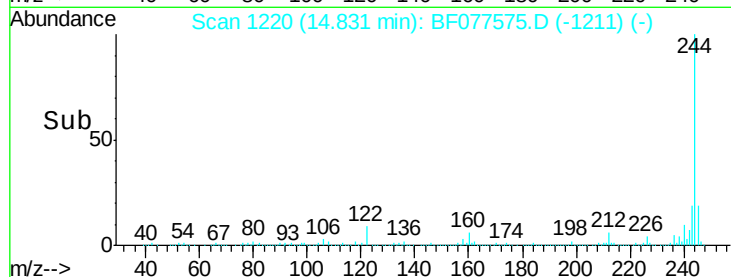
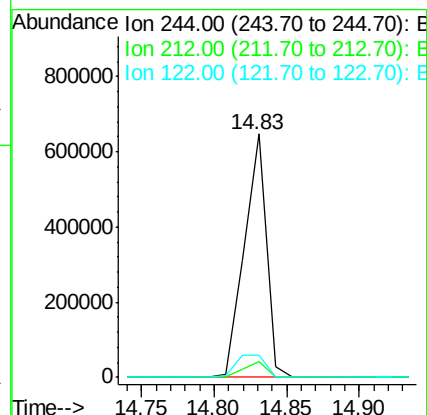
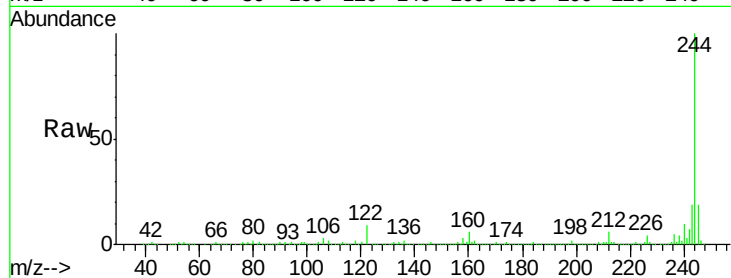




#78
 Terphenyl-d14
 Concen: 38.44 ng
 RT: 14.83 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: BF077575.D
 Acq: 4 Mar 2015 6:13

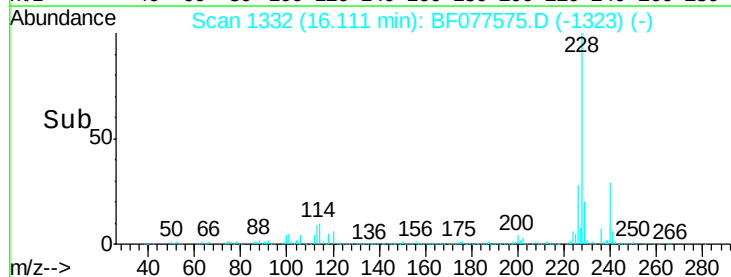
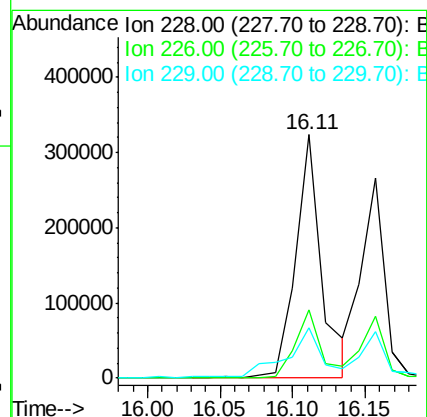
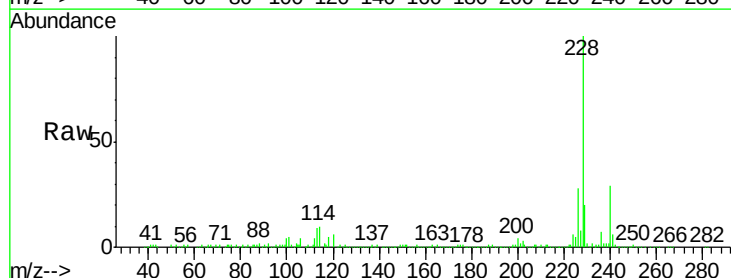
Instrument :
 BNA_F
 ClientSampleId :
 SA-2

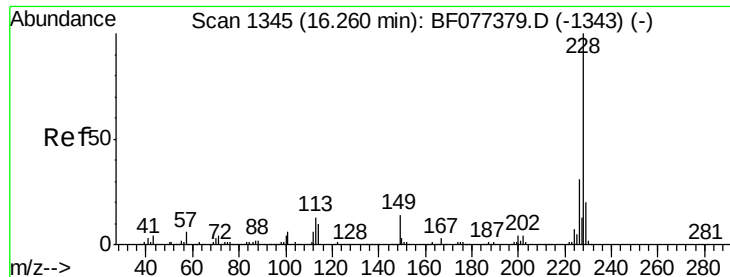
Tgt Ion:244 Resp: 685282
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.2 7.8
 122 9.0 7.8 11.8



#80
 Benzo(a)anthracene
 Concen: 16.30 ng
 RT: 16.11 min Scan# 1332
 Delta R.T. 0.01 min
 Lab File: BF077575.D
 Acq: 4 Mar 2015 6:13

Tgt Ion:228 Resp: 398055
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.0 33.0
 229 20.5 15.8 23.8





#82

Chrysene

Concen: 12.77 ng

RT: 16.15 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

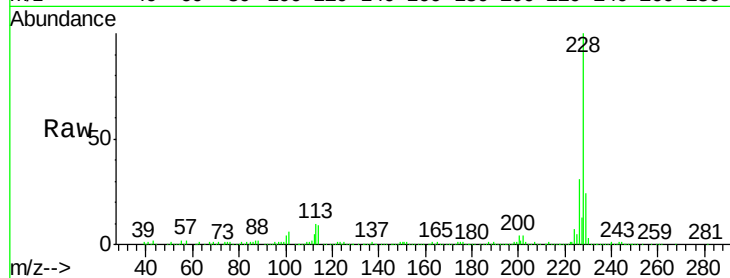
Tgt Ion:228 Resp: 292901

Ion Ratio Lower Upper

228 100

226 31.0 24.9 37.3

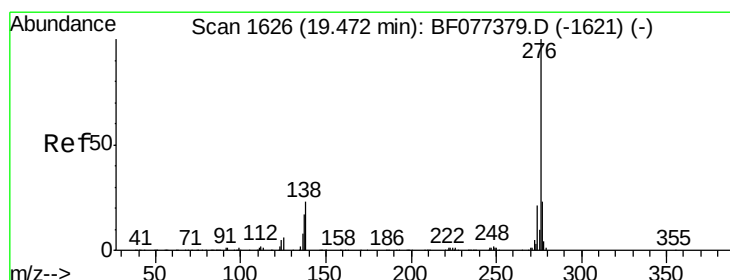
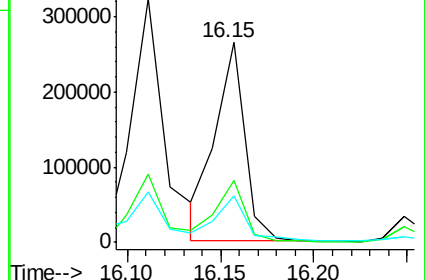
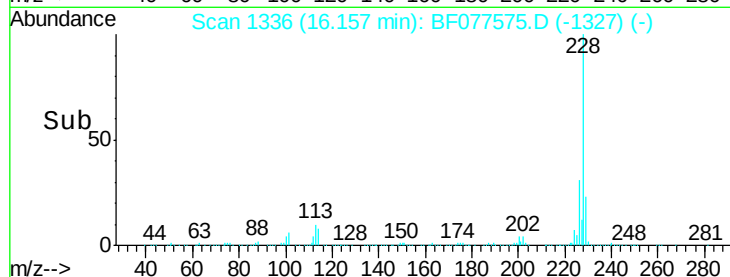
229 23.5 16.4 24.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.80 ng

RT: 19.30 min Scan# 1611

Delta R.T. 0.04 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

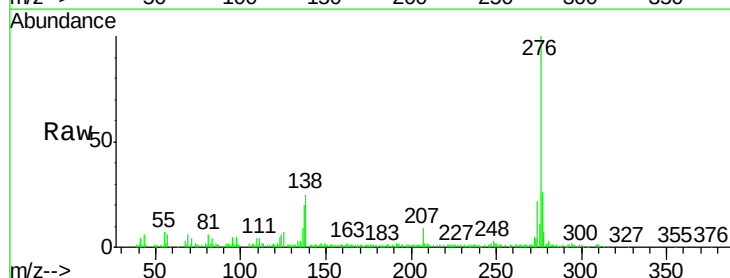
Tgt Ion:276 Resp: 151609

Ion Ratio Lower Upper

276 100

138 23.3 21.2 31.8

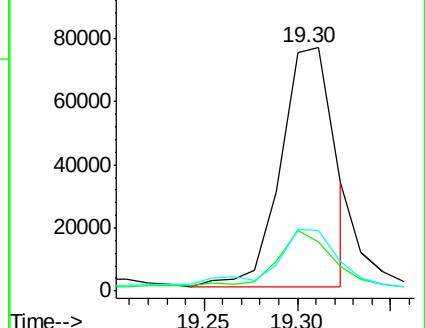
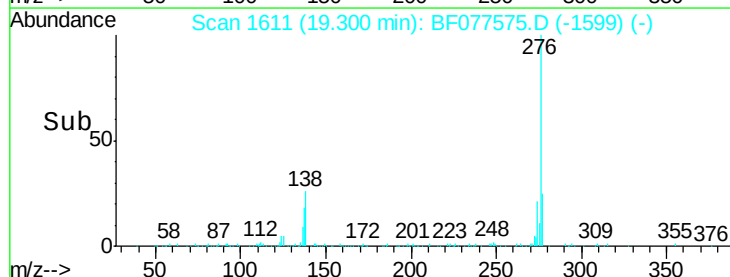
277 27.3 20.0 30.0

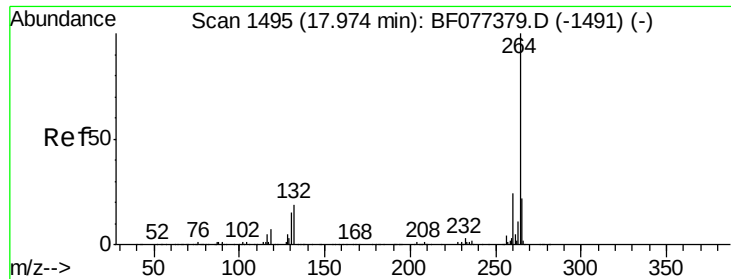


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

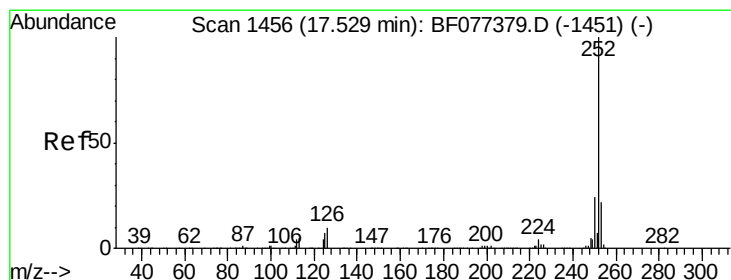
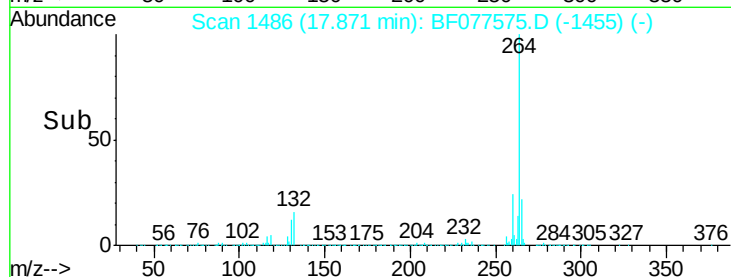
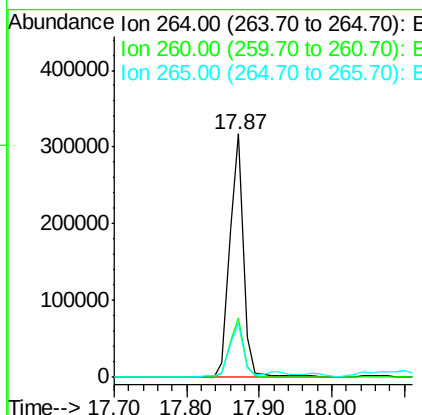
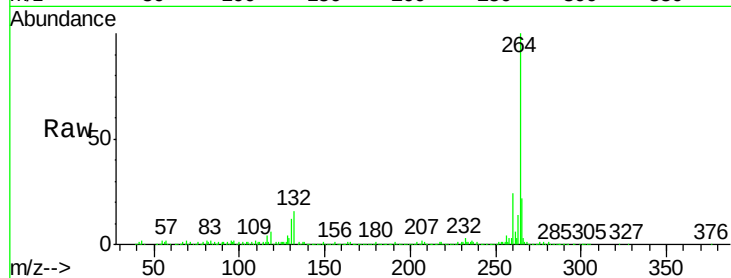




#86
Perylene-d12
Concen: 20.00 ng
RT: 17.87 min Scan# 1486
Delta R.T. 0.05 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

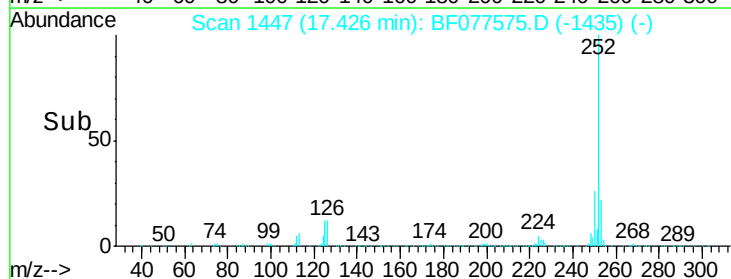
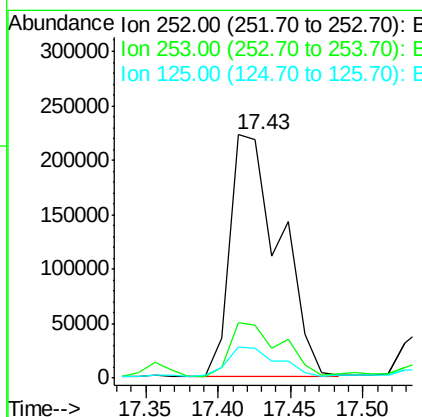
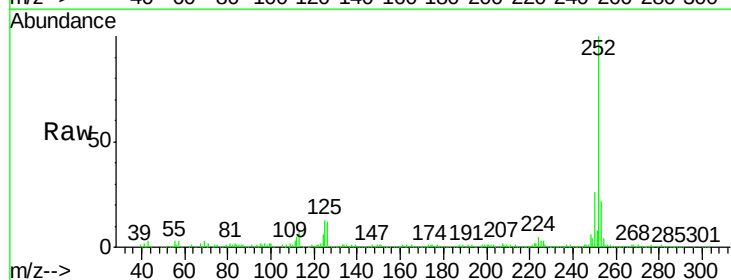
Instrument :
BNA_F
ClientSampleId :
SA-2

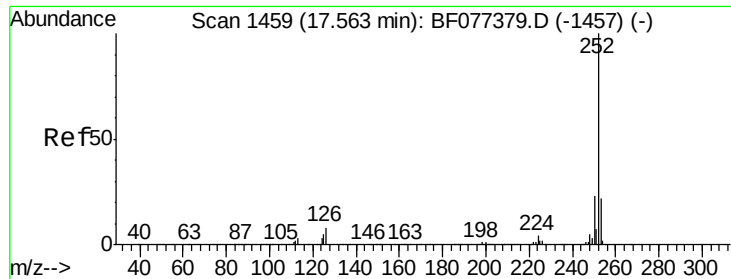
Tgt Ion:264 Resp: 412145
Ion Ratio Lower Upper
264 100
260 24.2 19.3 28.9
265 22.5 16.8 25.2



#87
Benzo(b)fluoranthene
Concen: 22.18 ng
RT: 17.43 min Scan# 1447
Delta R.T. 0.04 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

Tgt Ion:252 Resp: 531684
Ion Ratio Lower Upper
252 100
253 22.1 17.6 26.4
125 12.7 5.4 8.2#

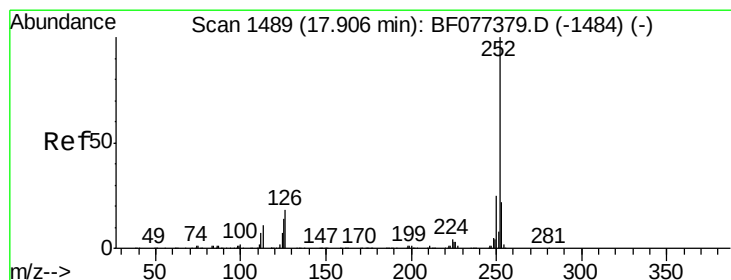
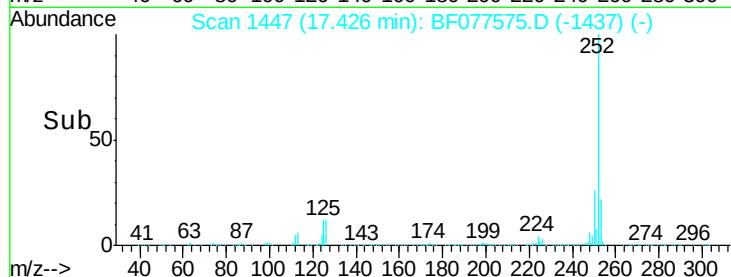
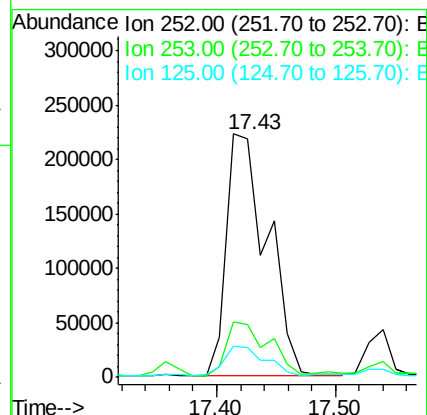
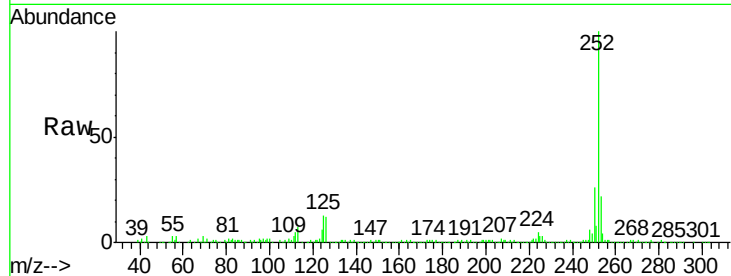




#88
Benzo(k)fluoranthene
Concen: 22.73 ng
RT: 17.43 min Scan# 1447
Delta R.T. 0.02 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

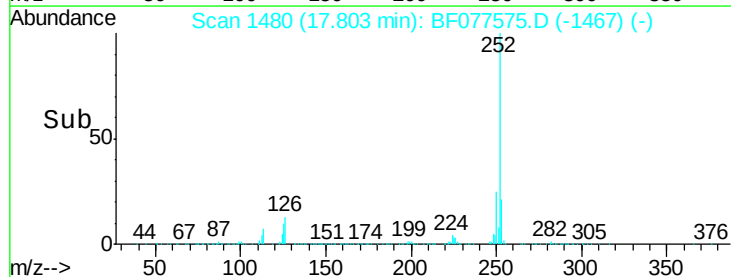
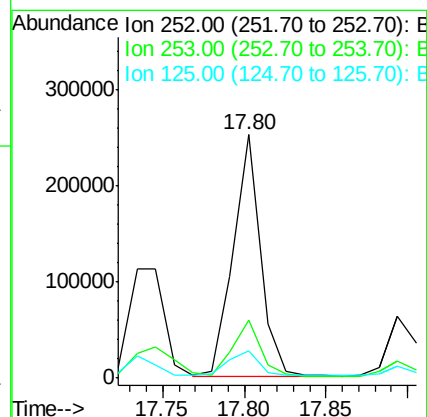
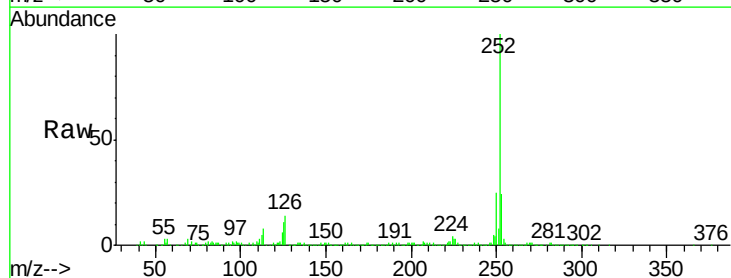
Instrument :
BNA_F
ClientSampleId :
SA-2

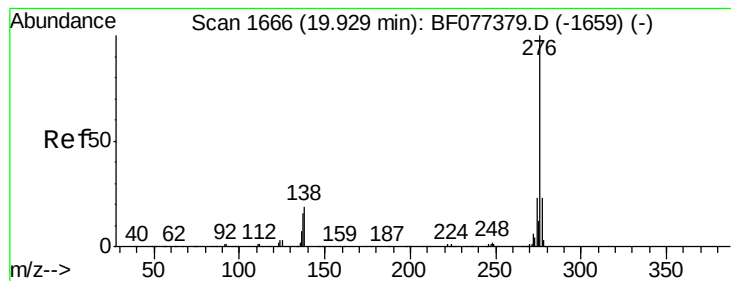
Tgt Ion:252 Resp: 533791
Ion Ratio Lower Upper
252 100
253 22.1 18.1 27.1
125 12.7 10.1 15.1



#89
Benzo(a)pyrene
Concen: 12.60 ng
RT: 17.80 min Scan# 1480
Delta R.T. 0.05 min
Lab File: BF077575.D
Acq: 4 Mar 2015 6:13

Tgt Ion:252 Resp: 287686
Ion Ratio Lower Upper
252 100
253 23.7 18.2 27.2
125 11.1 8.3 12.5





#91

Benzo(g,h,i)perylene

Concen: 6.63 ng

RT: 19.73 min Scan# 1649

Delta R.T. 0.05 min

Lab File: BF077575.D

Acq: 4 Mar 2015 6:13

Instrument :

BNA_F

ClientSampleId :

SA-2

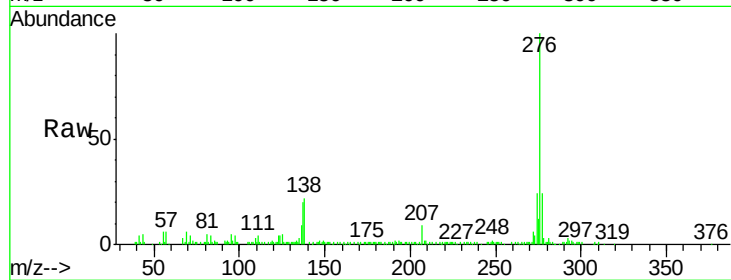
Tgt Ion:276 Resp: 145639

Ion Ratio Lower Upper

276 100

277 23.7 18.9 28.3

138 21.6 20.5 30.7



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

