

Data Path : Z:\HPCHEM1\BNA F\DATA\BF090815\
 Data File : BF081527.D
 Acq On : 8 Sep 2015 17:39
 Operator : UM/IZ
 Sample : G3472-01DL 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 08 18:11:10 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 08 16:11:55 2015
 Response via : Initial Calibration

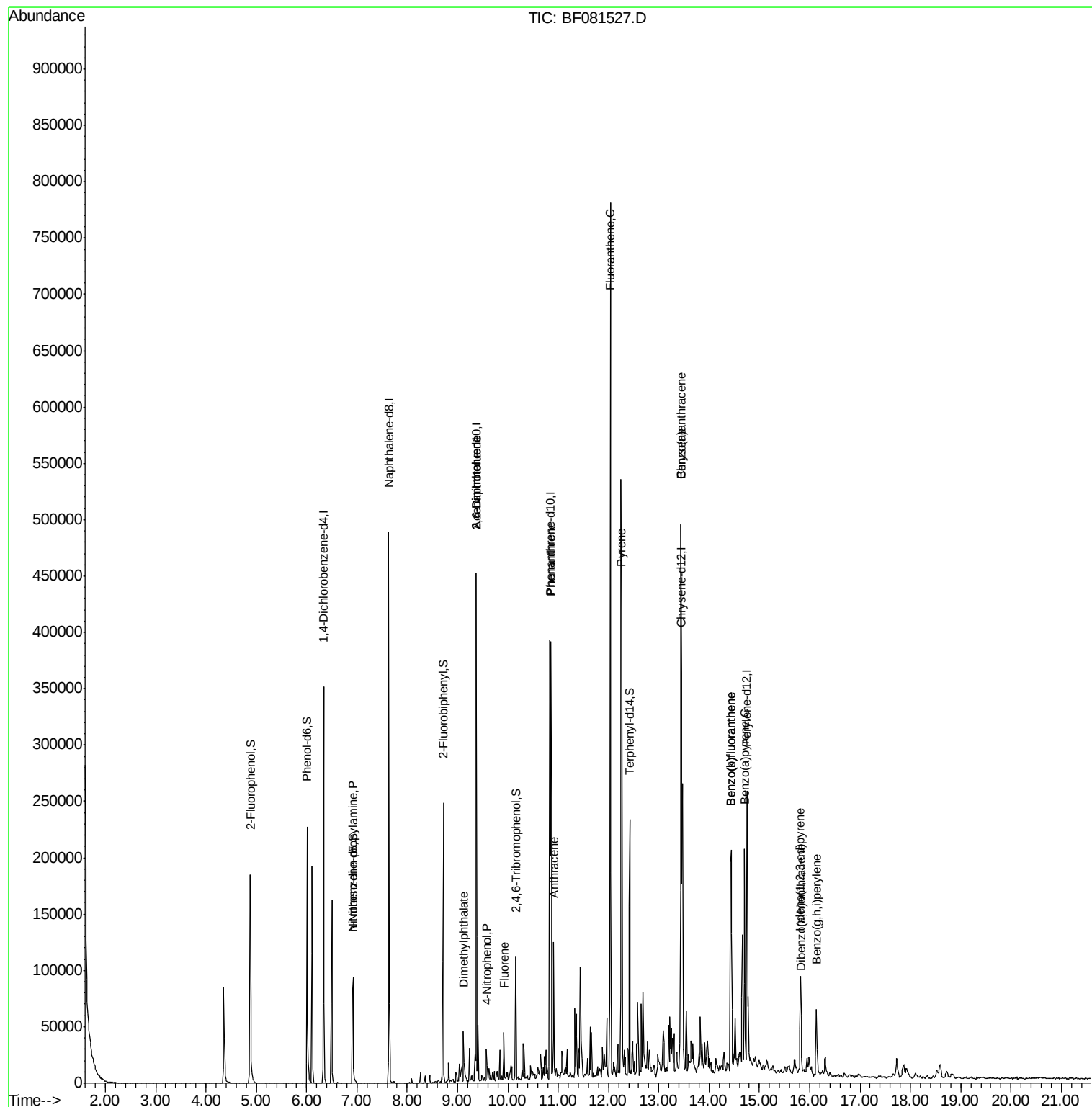
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	46515	20.00	ng	0.00
21) Naphthalene-d8	7.63	136	187361	20.00	ng	-0.01
38) Acenaphthene-d10	9.37	164	85522	20.00	ng	-0.01
63) Phenanthrene-d10	10.83	188	161001	20.00	ng	-0.01
75) Chrysene-d12	13.45	240	126361	20.00	ng	0.00
86) Perylene-d12	14.75	264	89822	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.88	112	56921	18.99	ng	0.00
7) Phenol-d6	6.01	99	80738	20.35	ng	-0.01
23) Nitrobenzene-d5	6.92	82	46188	11.89	ng	0.00
41) 2,4,6-Tribromophenol	10.16	330	13738	18.04	ng	0.00
44) 2-Fluorobiphenyl	8.72	172	87782	13.15	ng	0.00
78) Terphenyl-d14	12.42	244	73965	13.63	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	6.92	70	5801	2.15	ng	# 61
49) Dimethylphthalate	9.12	163	17258	2.60	ng	# 95
50) 2,6-Dinitrotoluene	9.37	165	11088	7.35	ng	# 39
55) 4-Nitrophenol	9.58	139	3708	3.44	ng	# 25
56) 2,4-Dinitrotoluene	9.37	165	11088	5.77	ng	# 33
57) Fluorene	9.92	166	13851	2.18	ng	97
70) Phenanthrene	10.86	178	184078	20.57	ng	98
71) Anthracene	10.91	178	47285	5.14	ng	99
74) Fluoranthene	12.03	202	308606	31.85	ng	91
77) Pyrene	12.26	202	281004	30.02	ng	99
80) Benzo(a)anthracene	13.44	228	164666	20.46	ng	96
82) Chrysene	13.44	228	164666	22.83	ng	98
85) Indeno(1,2,3-cd)pyrene	15.82	276	51320	9.70	ng	# 83
87) Benzo(b)fluoranthene	14.43	252	143995	22.45	ng	# 86
88) Benzo(k)fluoranthene	14.43	252	143995	27.06	ng	# 88
89) Benzo(a)pyrene	14.71	252	78656	14.47	ng	# 83
90) Dibenzo(a,h)anthracene	15.83	278	11857	2.82	ng	# 81
91) Benzo(g,h,i)perylene	16.14	276	47477	11.85	ng	# 72

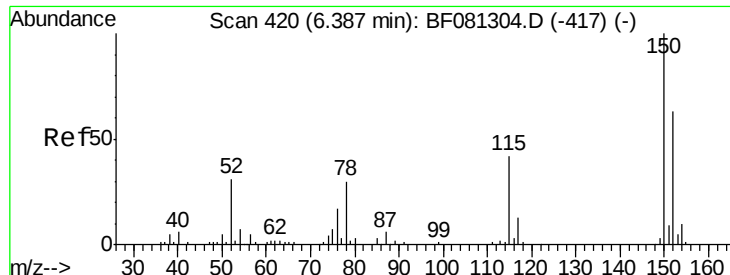
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.34 min Scan# 416

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampleId :

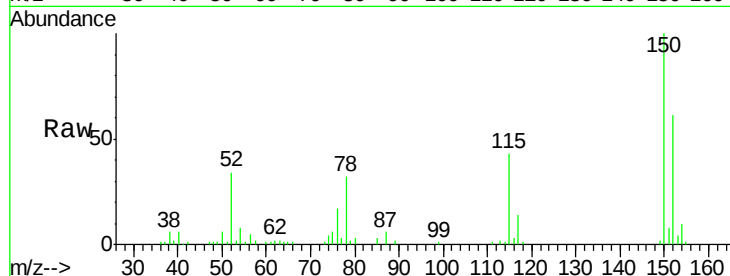
Tot Ion:152 Resp: 46515

Ion Ratio Lower Upper

152 100

150 163.0 124.7 187.1

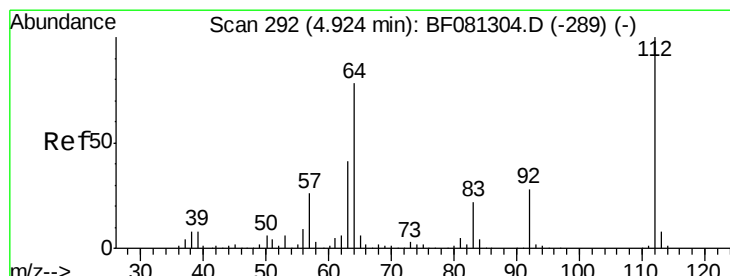
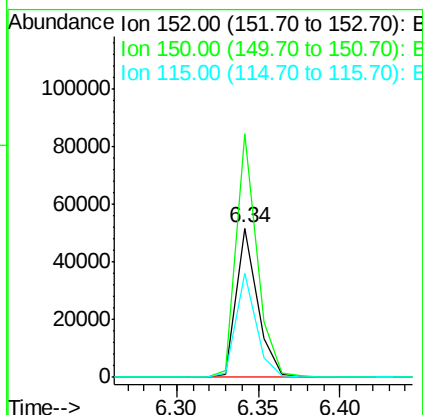
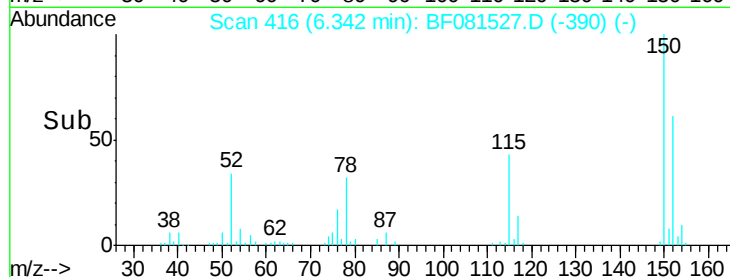
115 69.3 39.0 58.4#



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: 18.99 ng

RT: 4.88 min Scan# 288

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

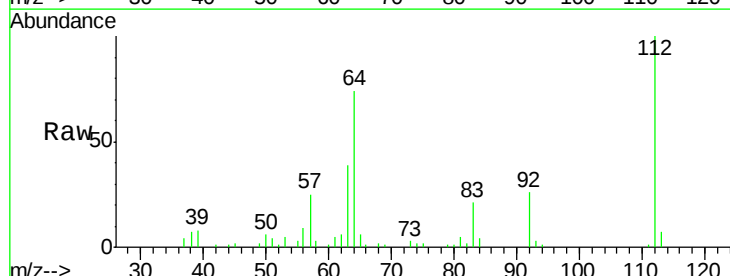
Tgt Ion:112 Resp: 56921

Ion Ratio Lower Upper

112 100

64 73.9 39.7 59.5#

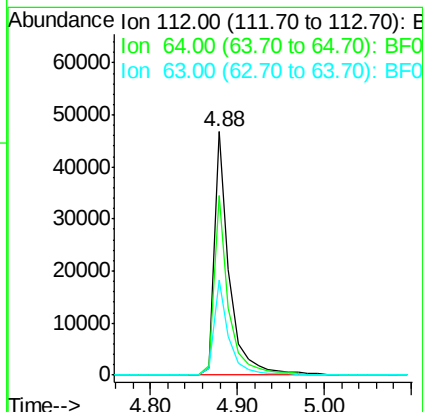
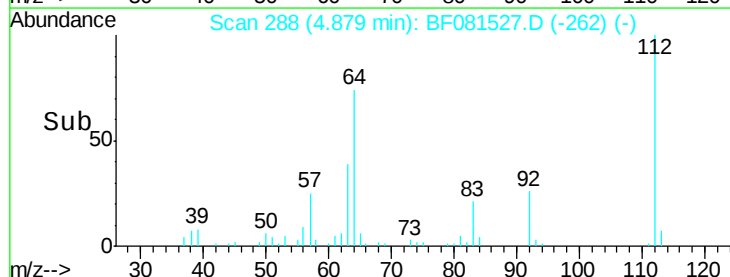
63 39.3 17.4 26.0#



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: 20.35 ng

RT: 6.01 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampled :

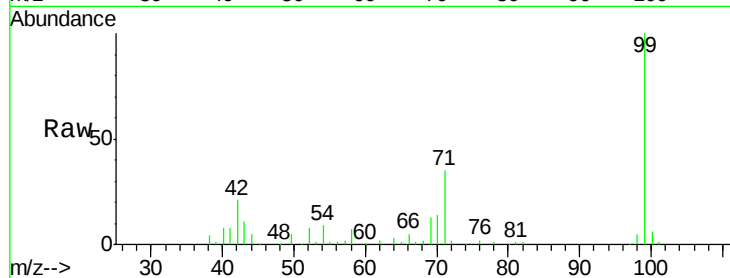
Tot Ion: 99 Resp: 80738

Ion Ratio Lower Upper

99 100

42 20.7 13.7 20.5#

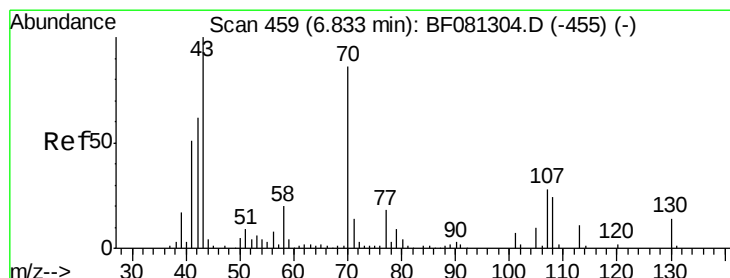
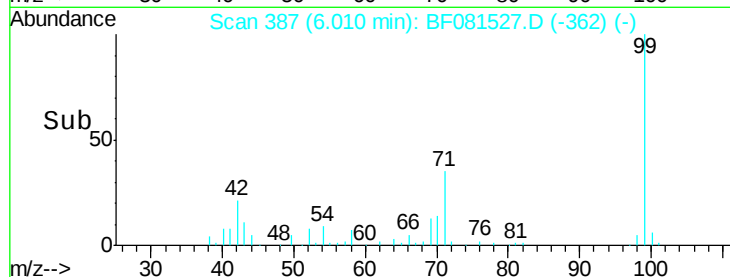
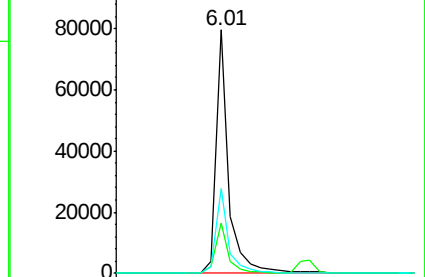
71 34.9 14.2 21.2#



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.15 ng

RT: 6.92 min Scan# 467

Delta R.T. 0.13 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Tgt Ion: 70 Resp: 5801

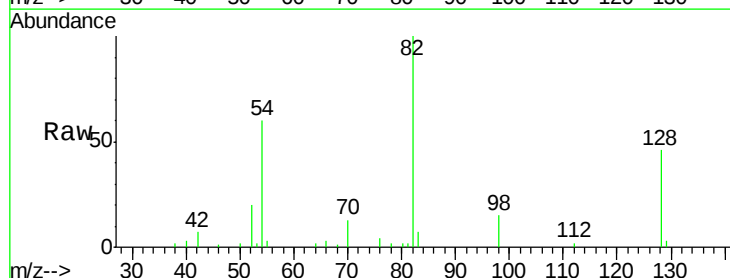
Ion Ratio Lower Upper

70 100

42 51.9 63.8 95.6#

101 0.0 9.2 13.8#

130 0.0 27.3 40.9#

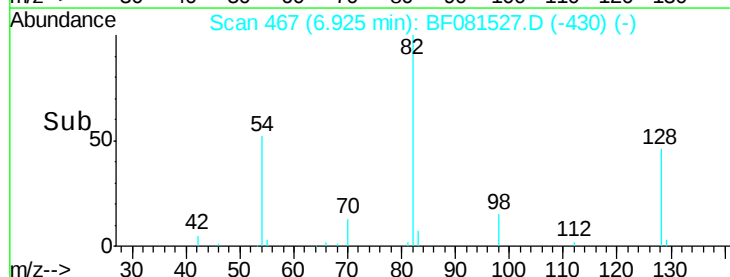
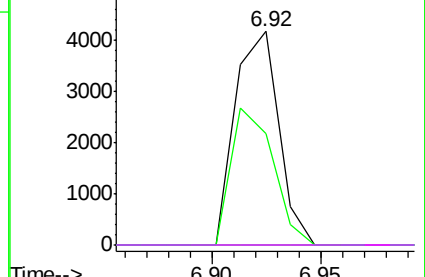


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.63 min Scan# 529

Delta R.T. -0.01 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 187361

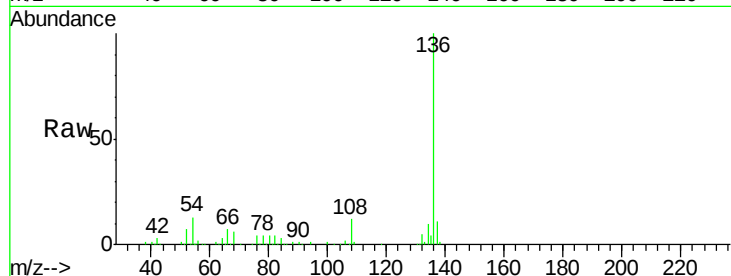
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.6

54 12.9 8.2 12.2#

68 5.6 5.8 8.6#

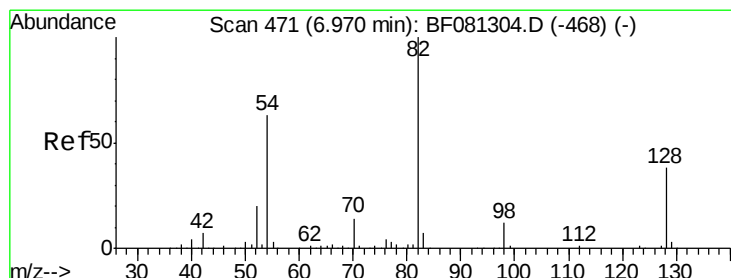
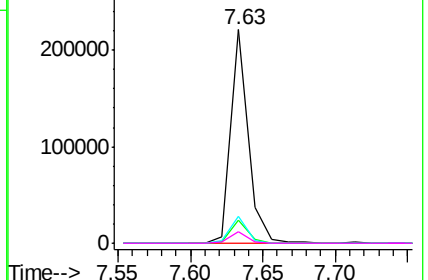
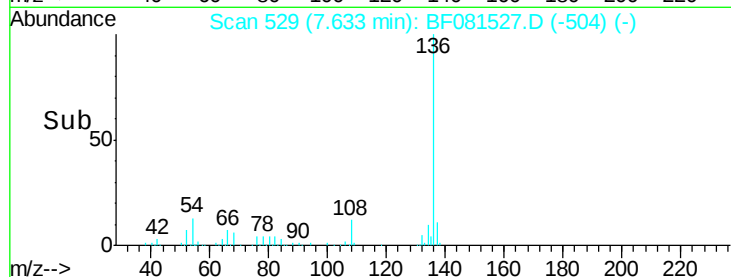


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.89 ng

RT: 6.92 min Scan# 467

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

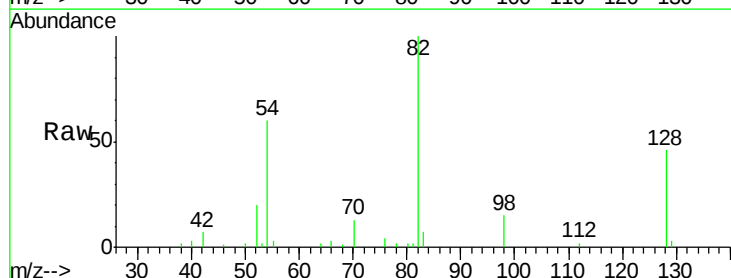
Tgt Ion: 82 Resp: 46188

Ion Ratio Lower Upper

82 100

128 45.7 51.0 76.6#

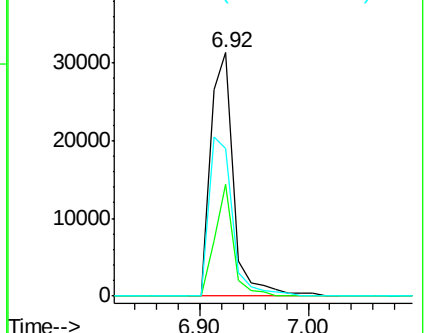
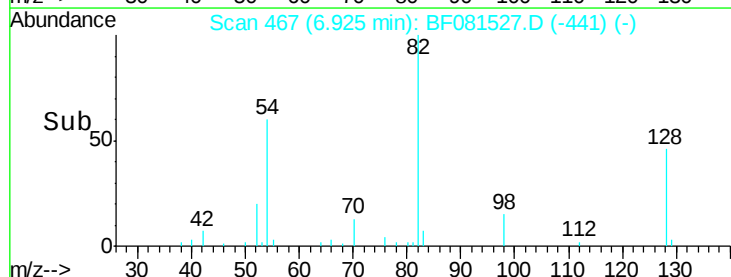
54 60.5 47.5 71.3

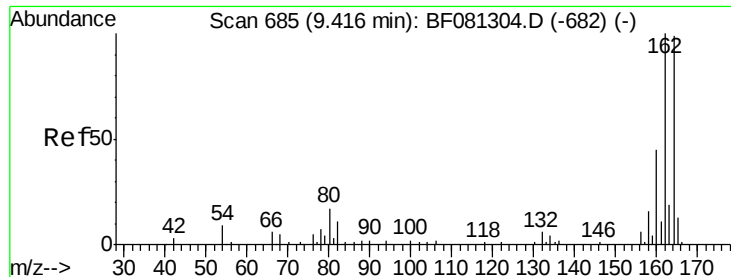


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.37 min Scan# 681

Delta R.T. -0.01 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampleId :

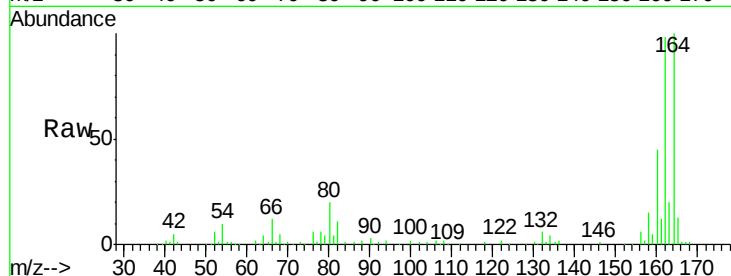
Tot Ion:164 Resp: 85522

Ion Ratio Lower Upper

164 100

162 98.1 75.2 112.8

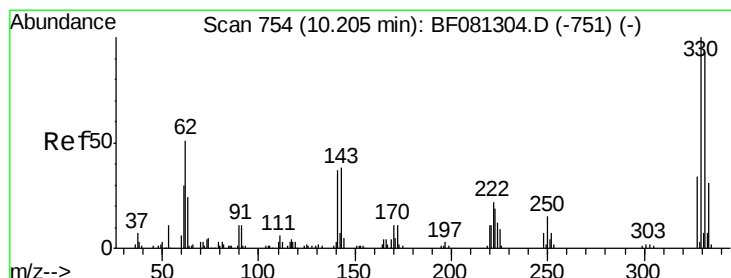
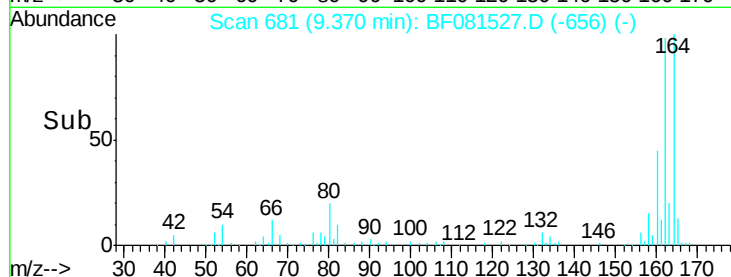
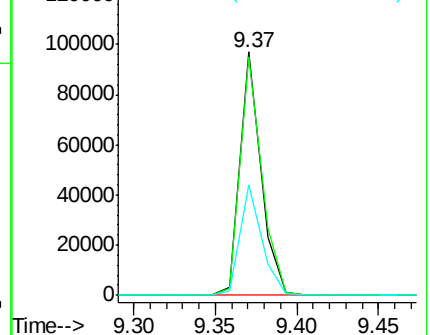
160 45.3 31.5 47.3



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: 18.04 ng

RT: 10.16 min Scan# 750

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

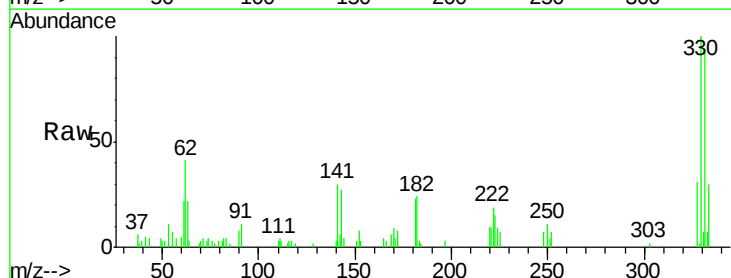
Tgt Ion:330 Resp: 13738

Ion Ratio Lower Upper

330 100

332 96.4 76.6 114.8

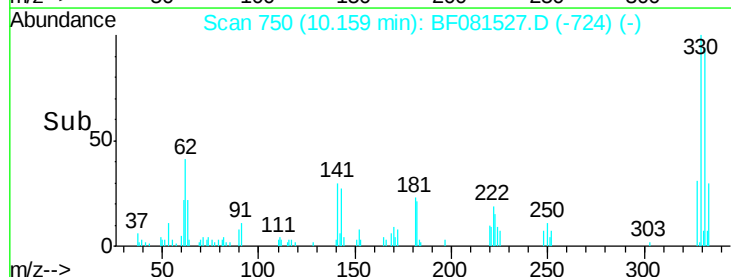
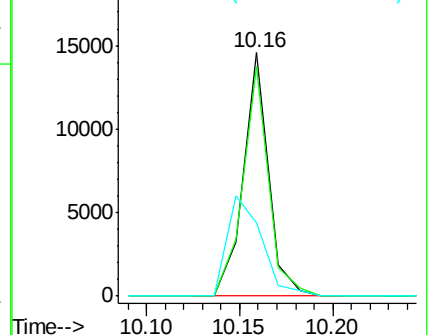
141 56.6 29.7 44.5#

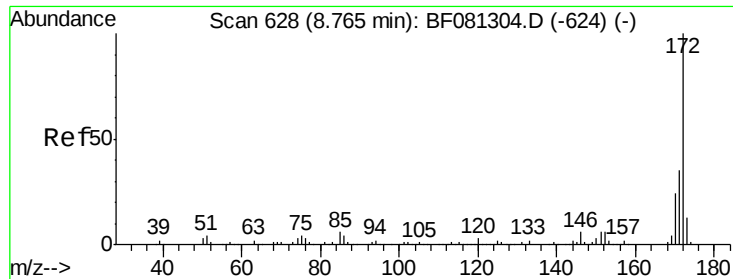


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

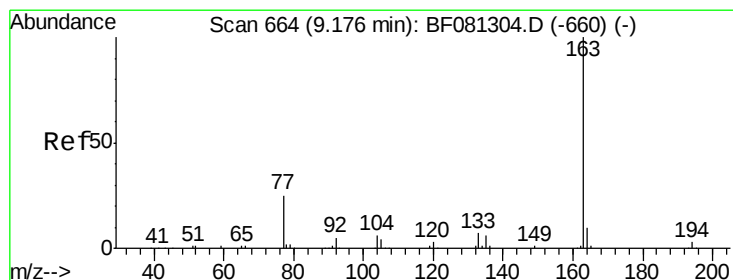
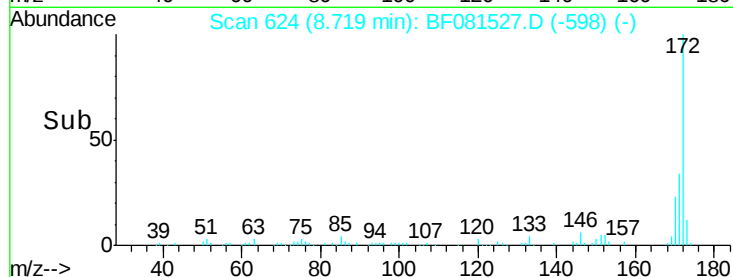
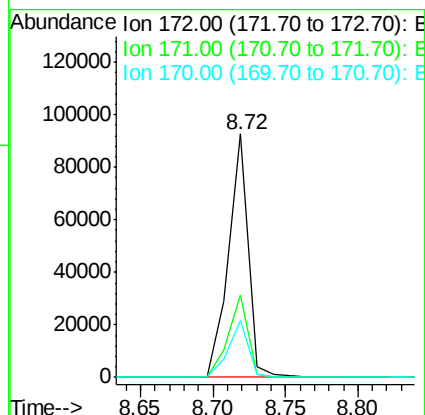
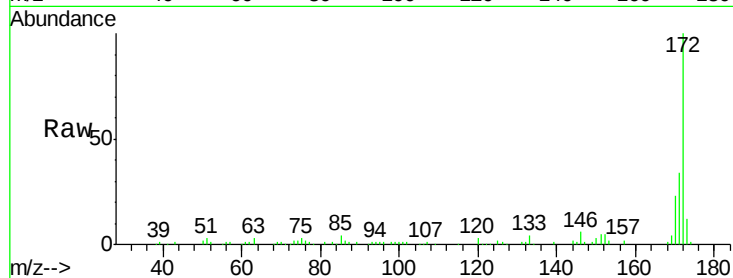




#44
2-Fluorobiphenyl
Concen: 13.15 ng
RT: 8.72 min Scan# 624
Delta R.T. 0.00 min
Lab File: BF081527.D
Acq: 8 Sep 2015 17:39

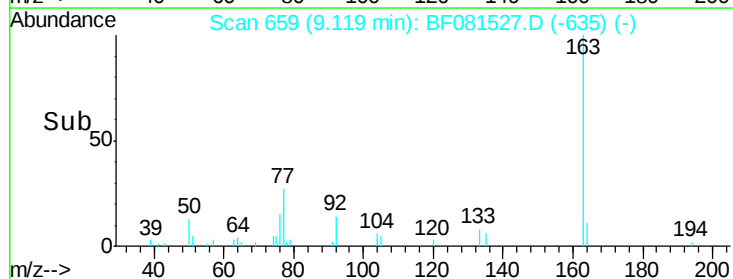
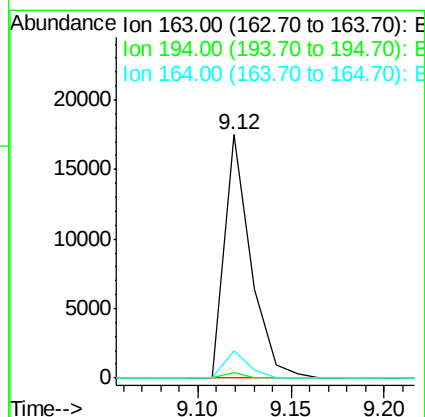
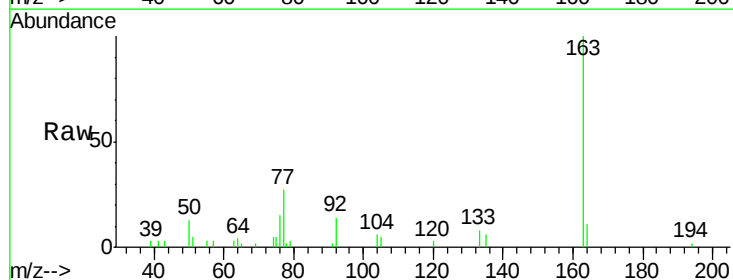
Instrument :
BNA_F
ClientSampleId :

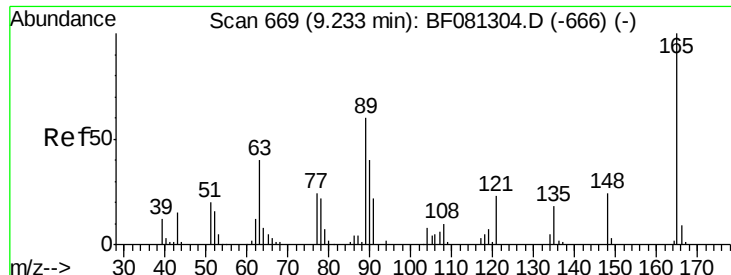
Tot Ion:172 Resp: 87782
Ion Ratio Lower Upper
172 100
171 33.7 26.1 39.1
170 23.2 17.4 26.2



#49
Dimethylphthalate
Concen: 2.60 ng
RT: 9.12 min Scan# 659
Delta R.T. -0.02 min
Lab File: BF081527.D
Acq: 8 Sep 2015 17:39

Tgt Ion:163 Resp: 17258
Ion Ratio Lower Upper
163 100
194 2.2 4.4 6.6#
164 11.2 8.3 12.5

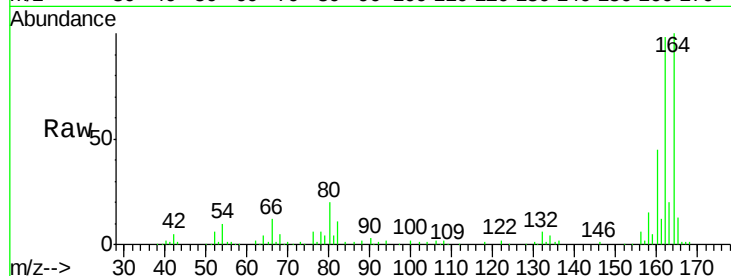




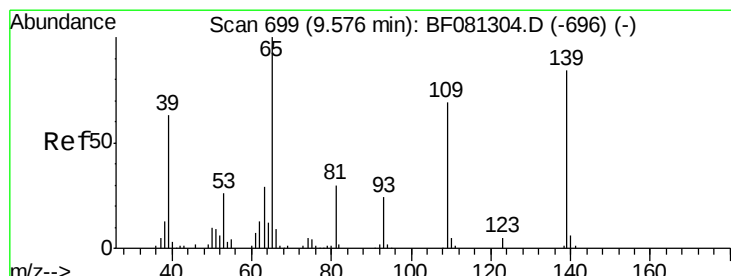
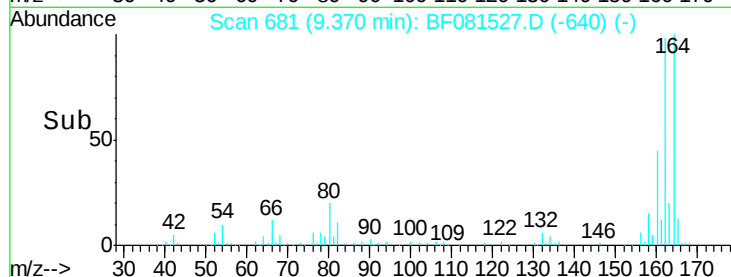
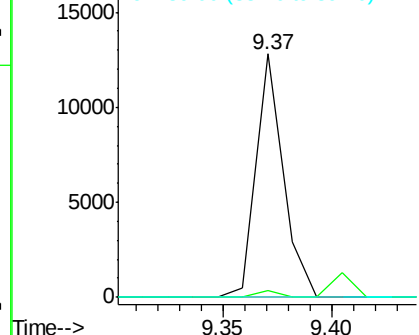
#50
 2,6-Dinitrotoluene
 Concen: 7.35 ng
 RT: 9.37 min Scan# 681
 Delta R.T. 0.17 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 11088
 Ion Ratio Lower Upper
 165 100
 63 3.0 32.3 48.5#
 89 0.0 28.6 43.0#

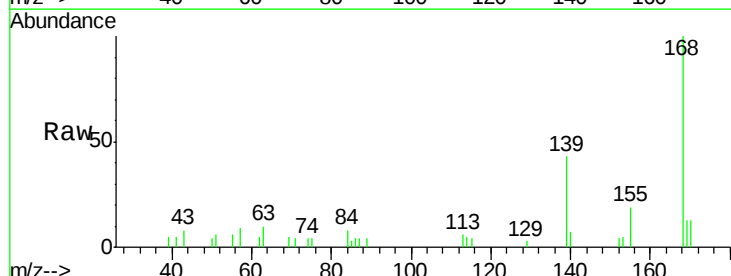


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

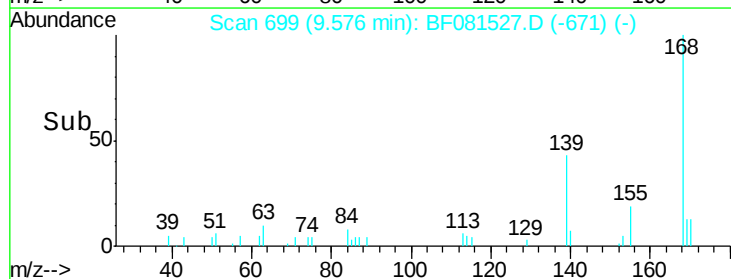
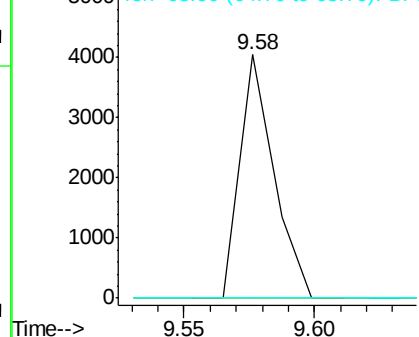


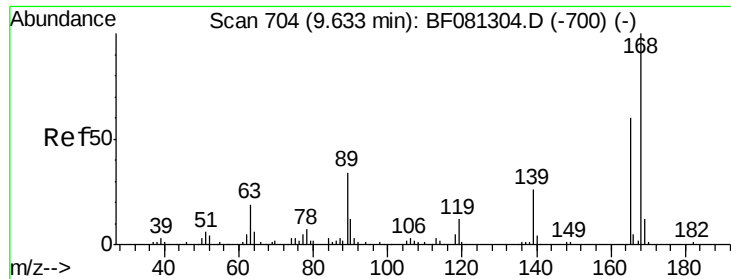
#55
 4-Nitrophenol
 Concen: 3.44 ng
 RT: 9.58 min Scan# 699
 Delta R.T. 0.02 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

Tgt Ion:139 Resp: 3708
 Ion Ratio Lower Upper
 139 100
 109 0.0 12.7 52.7#
 65 0.0 45.9 85.9#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF0

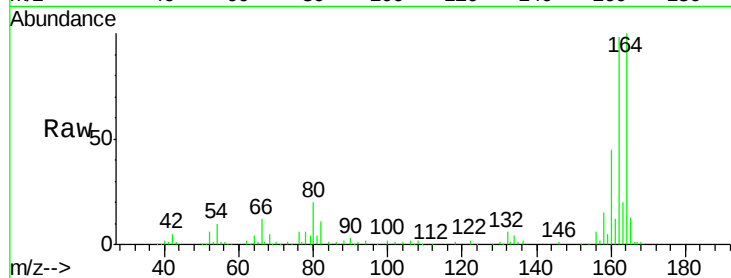




#56
 2,4-Dinitrotoluene
 Concen: 5.77 ng
 RT: 9.37 min Scan# 681
 Delta R.T. -0.22 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	165	Resp:	11088
Ion	Ratio	Lower	Upper
165	100		
63	3.0	29.8	44.6#
89	0.0	44.5	66.7#
182	0.0	3.0	4.4#

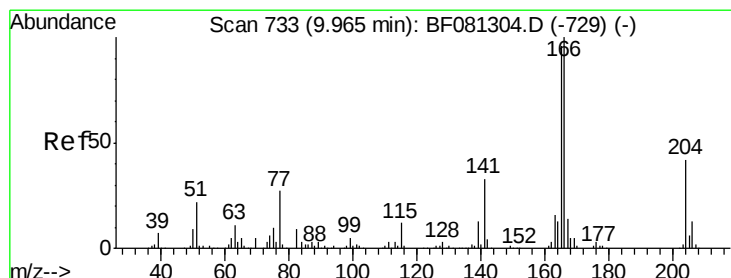
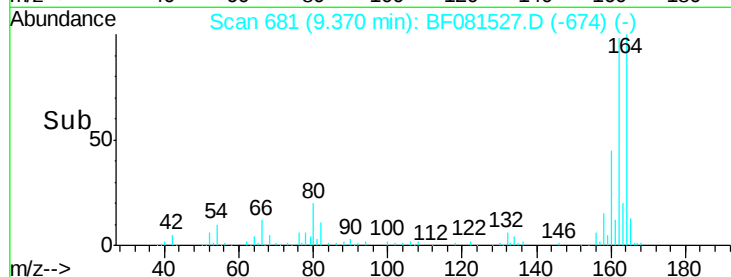
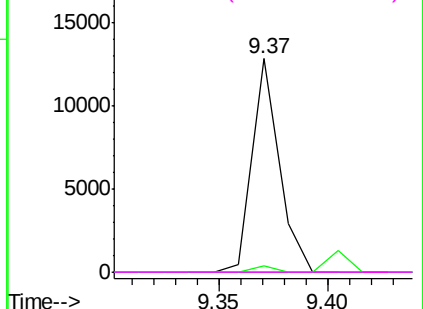


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

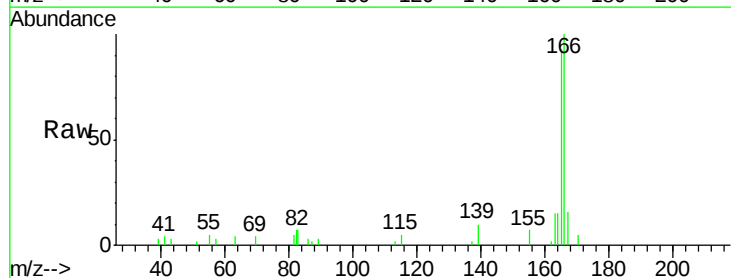
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
 Fluorene
 Concen: 2.18 ng
 RT: 9.92 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

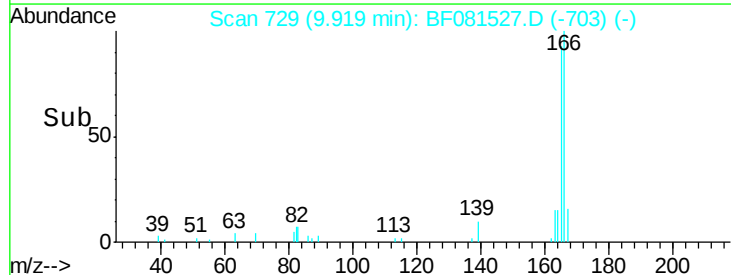
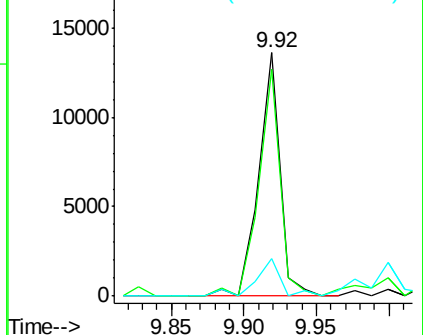
Tgt Ion:	166	Resp:	13851
Ion	Ratio	Lower	Upper
166	100		
165	93.4	72.6	109.0
167	15.5	10.6	16.0

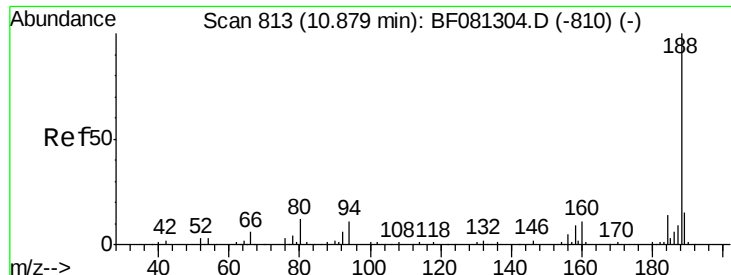


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

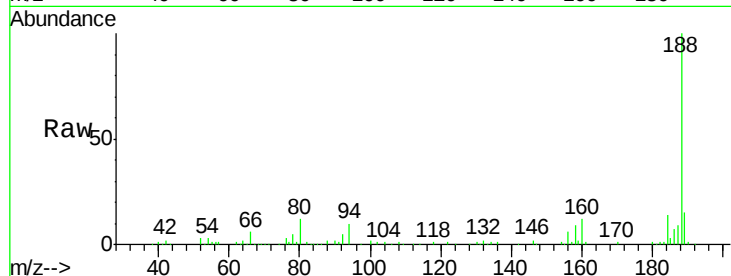




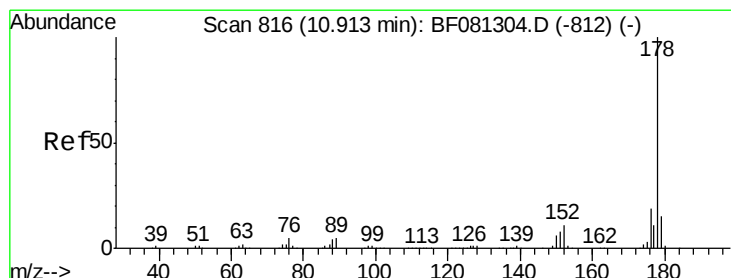
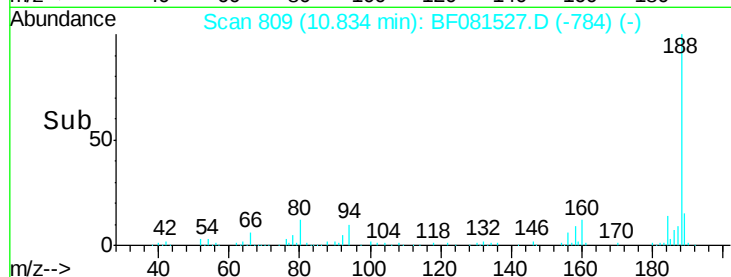
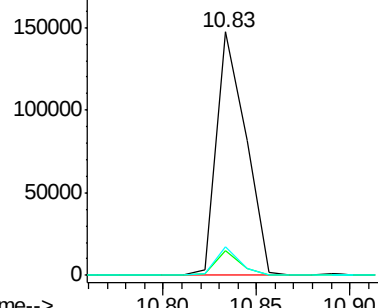
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 10.83 min Scan# 809
 Delta R.T. -0.01 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 161001
 Ion Ratio Lower Upper
 188 100
 94 10.0 11.1 16.7#
 80 11.6 11.0 16.4

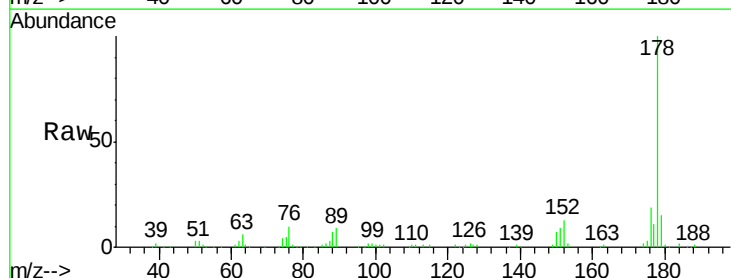


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

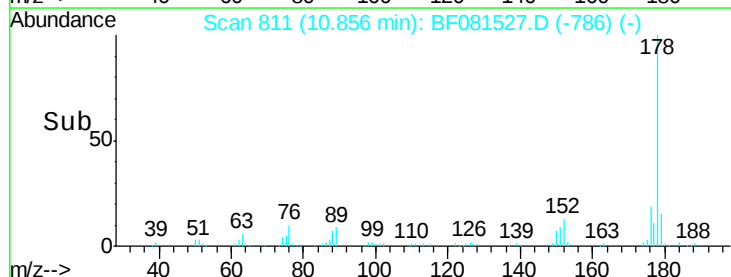
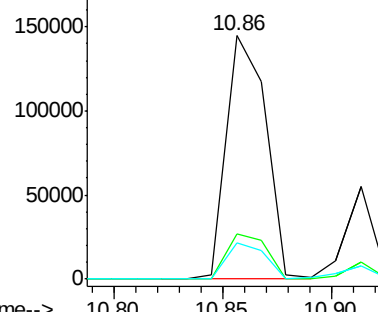


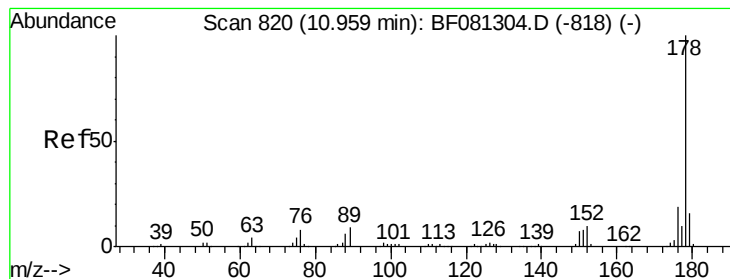
#70
 Phenanthrene
 Concen: 20.57 ng
 RT: 10.86 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

Tgt Ion:178 Resp: 184078
 Ion Ratio Lower Upper
 178 100
 176 18.8 13.8 20.8
 179 15.1 12.2 18.2



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: 5.14 ng

RT: 10.91 min Scan# 816

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampled :

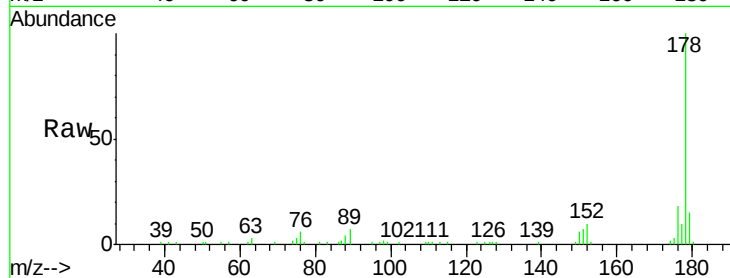
Tot Ion:178 Resp: 47285

Ion Ratio Lower Upper

178 100

176 18.0 14.1 21.1

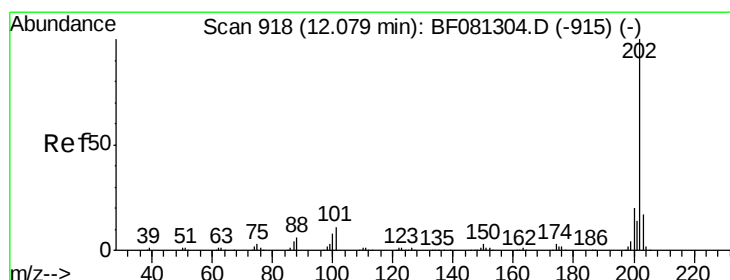
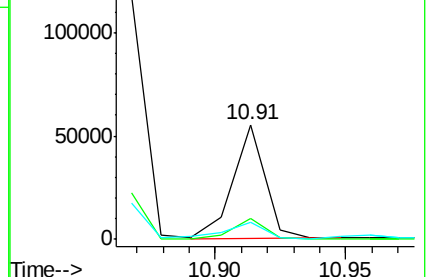
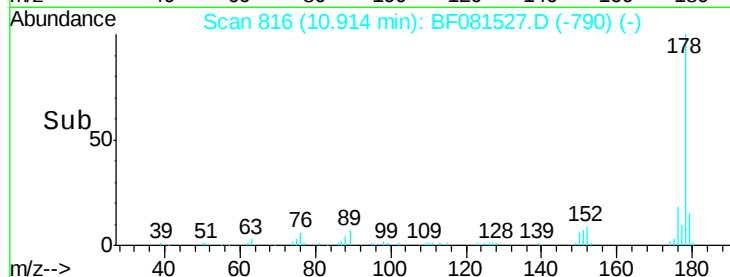
179 14.6 12.2 18.2



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: 31.85 ng

RT: 12.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

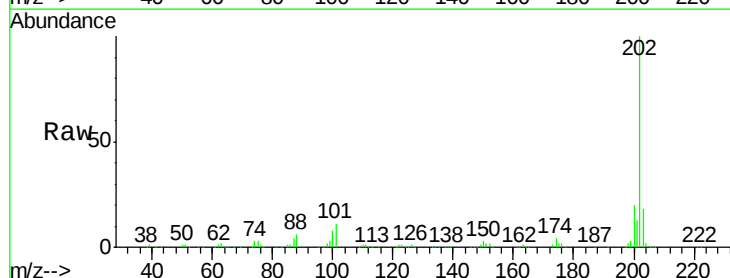
Tgt Ion:202 Resp: 308606

Ion Ratio Lower Upper

202 100

101 10.7 0.0 38.3

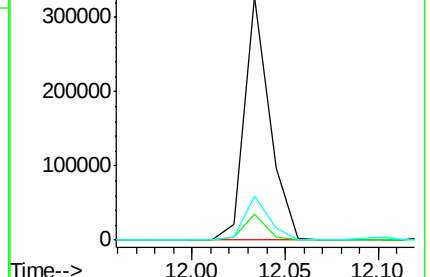
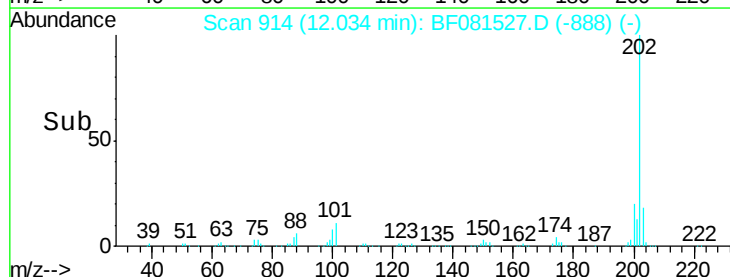
203 17.9 0.0 37.3

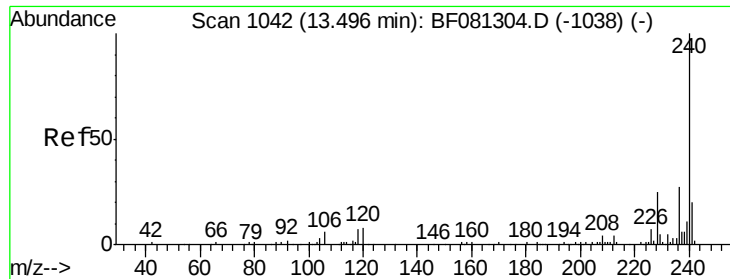


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.45 min Scan# 1038

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampled :

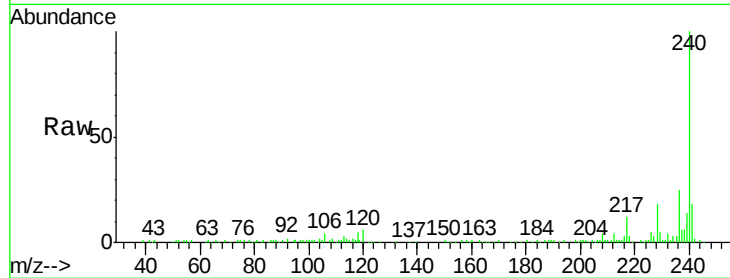
Tot Ion:240 Resp: 126361

Ion Ratio Lower Upper

240 100

120 5.6 16.2 24.2#

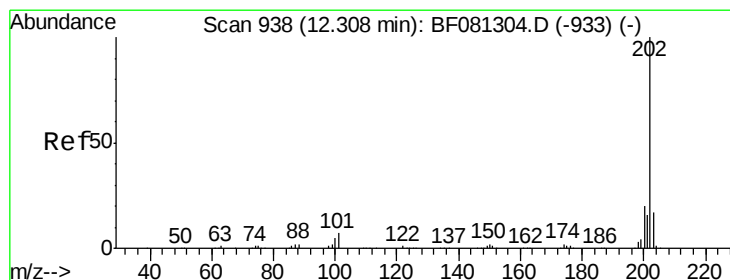
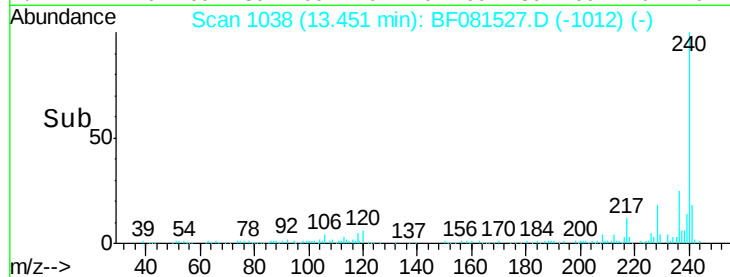
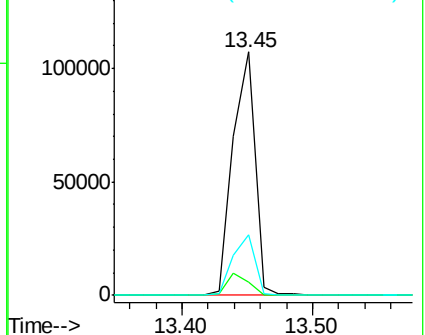
236 25.1 18.4 27.6



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: 30.02 ng

RT: 12.26 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

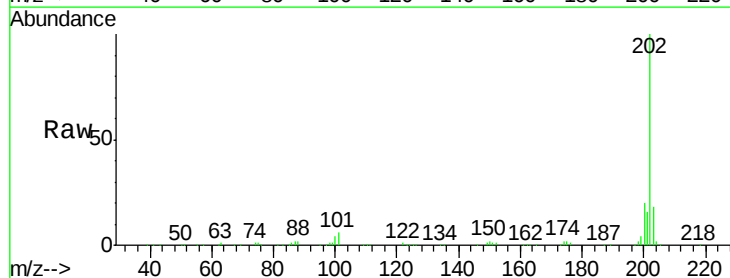
Tgt Ion:202 Resp: 281004

Ion Ratio Lower Upper

202 100

200 19.6 15.0 22.4

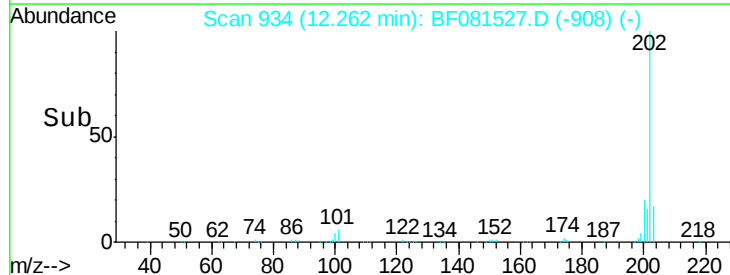
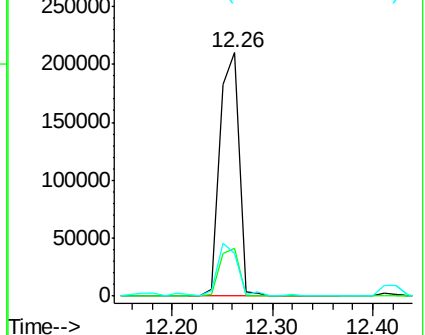
203 17.6 14.1 21.1

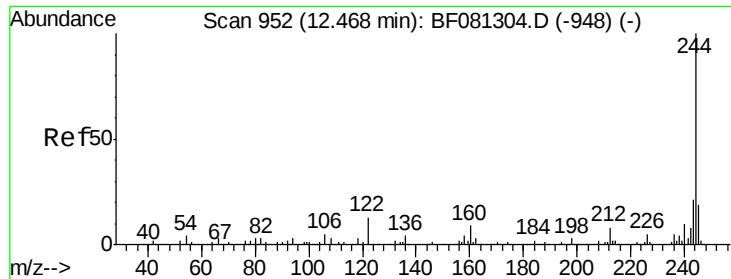


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 13.63 ng

RT: 12.42 min Scan# 948

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampled :

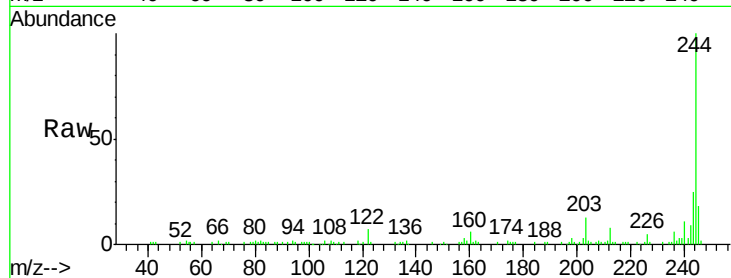
Tot Ion:244 Resp: 73965

Ion Ratio Lower Upper

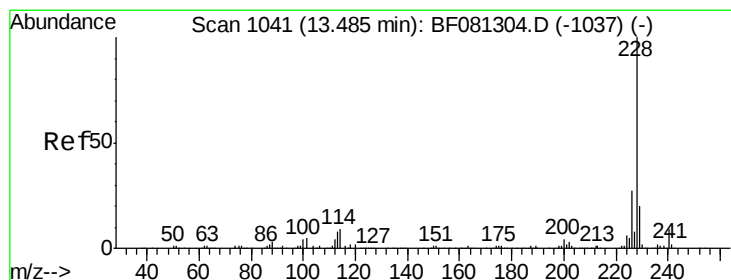
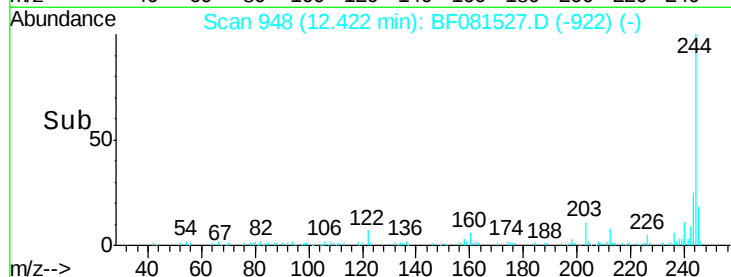
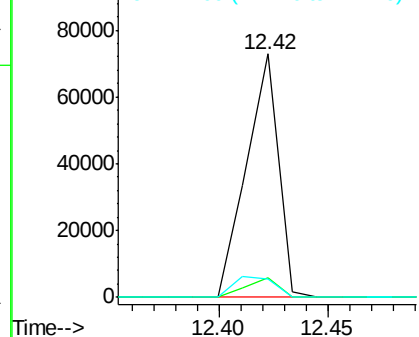
244 100

212 7.9 4.3 6.5#

122 7.3 17.4 26.2#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 20.46 ng

RT: 13.44 min Scan# 1037

Delta R.T. 0.00 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

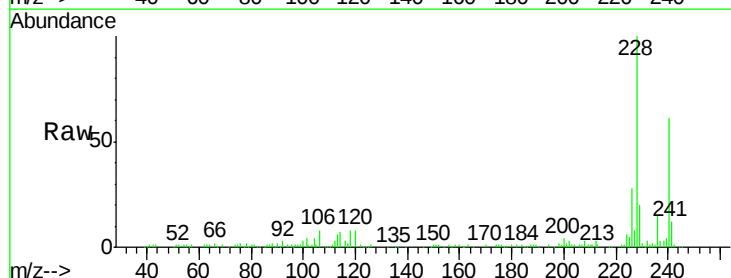
Tgt Ion:228 Resp: 164666

Ion Ratio Lower Upper

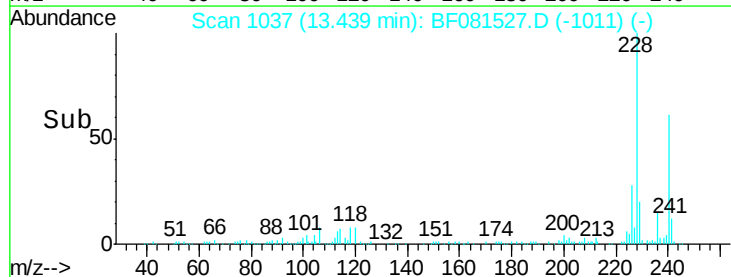
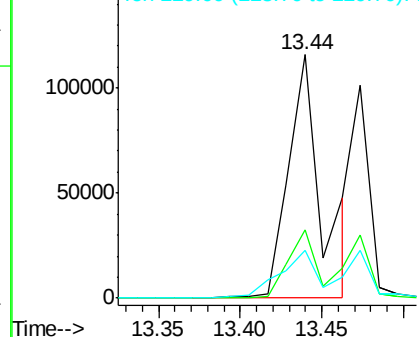
228 100

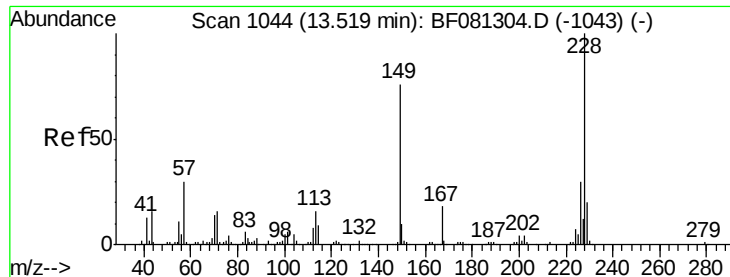
226 28.0 20.0 30.0

229 19.8 15.4 23.2



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: 22.83 ng

RT: 13.44 min Scan# 1037

Delta R.T. -0.03 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

Instrument :

BNA_F

ClientSampleId :

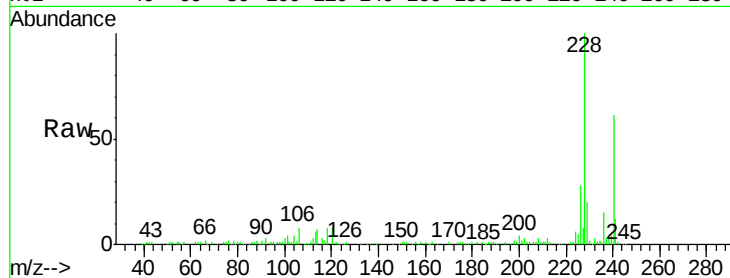
Tot Ion:228 Resp: 164666

Ion Ratio Lower Upper

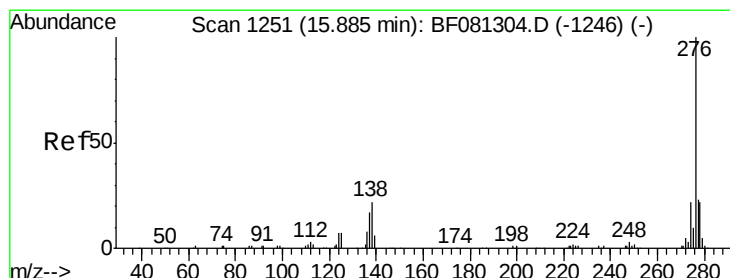
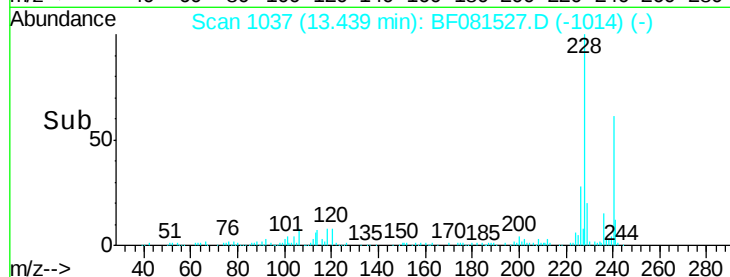
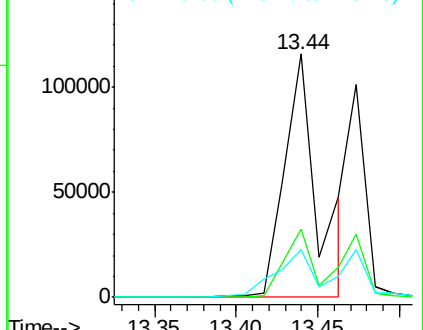
228 100

226 28.0 21.0 31.4

229 19.8 15.6 23.4



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: 9.70 ng

RT: 15.82 min Scan# 1245

Delta R.T. -0.01 min

Lab File: BF081527.D

Acq: 8 Sep 2015 17:39

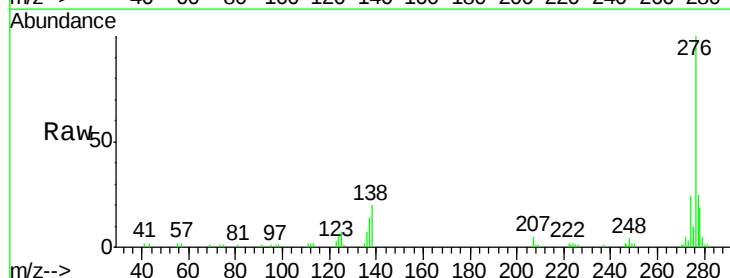
Tgt Ion:276 Resp: 51320

Ion Ratio Lower Upper

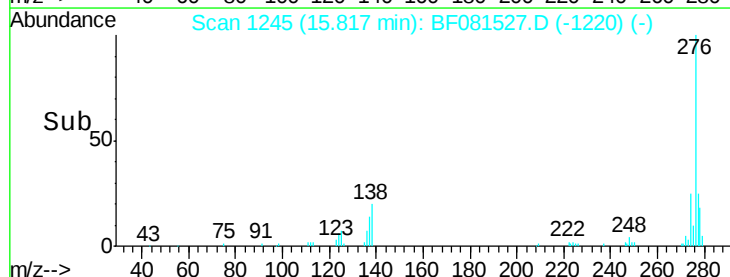
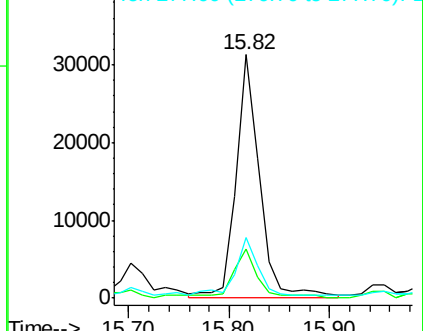
276 100

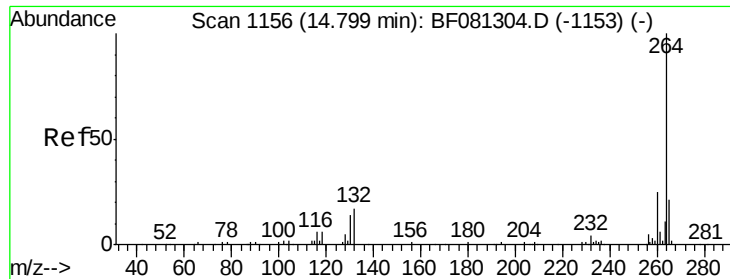
138 23.1 25.7 38.5#

277 28.2 15.6 23.4#



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

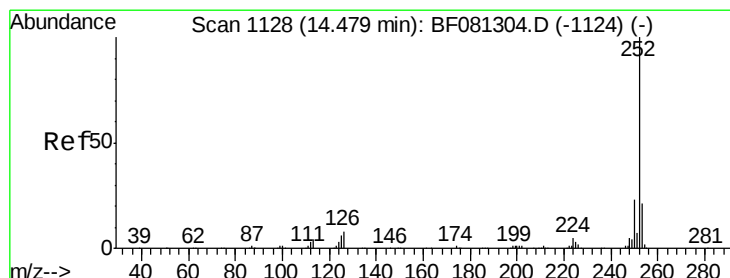
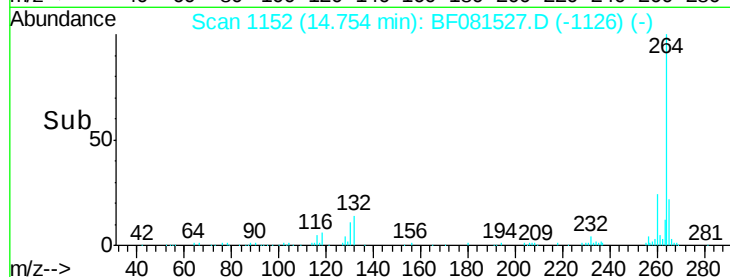
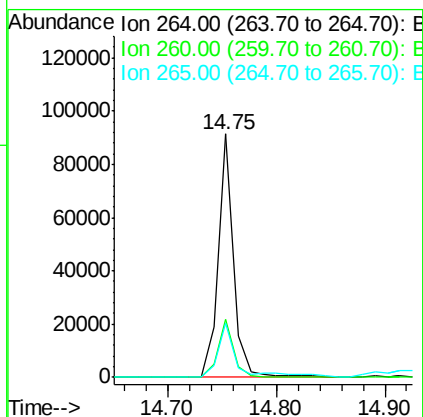
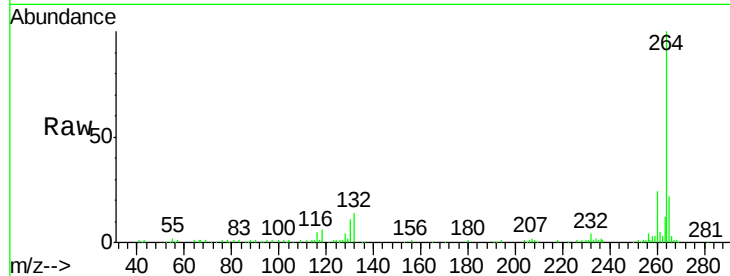




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 14.75 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

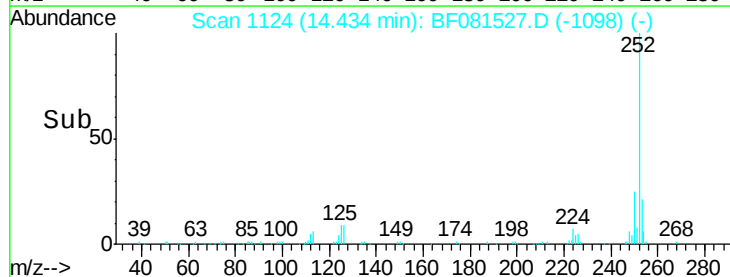
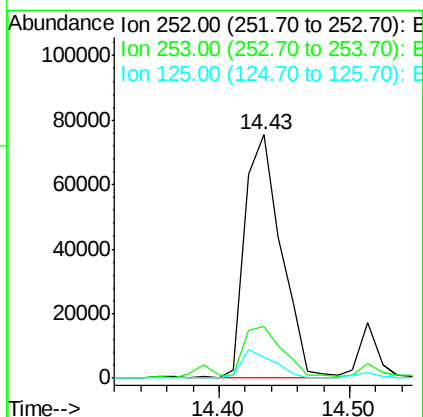
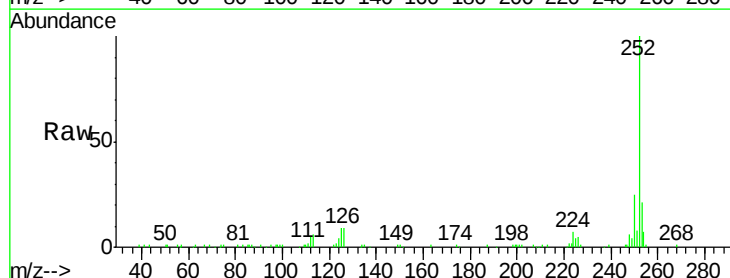
Instrument :
 BNA_F
 ClientSampleId :

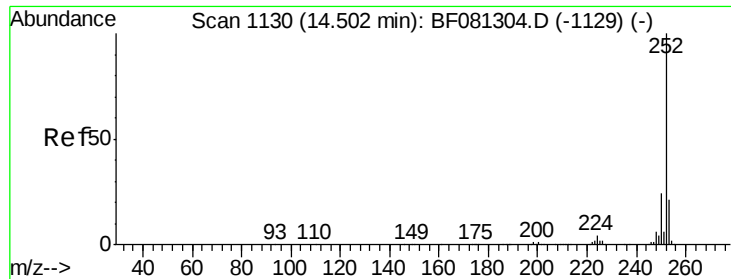
Tot Ion:264 Resp: 89822
 Ion Ratio Lower Upper
 264 100
 260 23.7 16.7 25.1
 265 22.5 17.2 25.8



#87
 Benzo(b)fluoranthene
 Concen: 22.45 ng
 RT: 14.43 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: BF081527.D
 Acq: 8 Sep 2015 17:39

Tgt Ion:252 Resp: 143995
 Ion Ratio Lower Upper
 252 100
 253 21.4 17.5 26.3
 125 8.6 17.1 25.7#

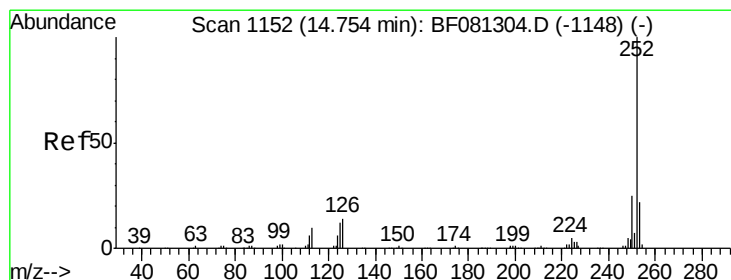
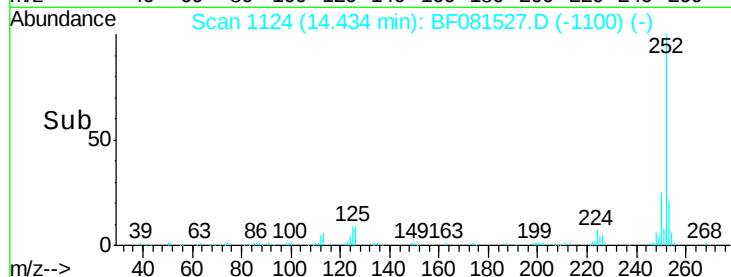
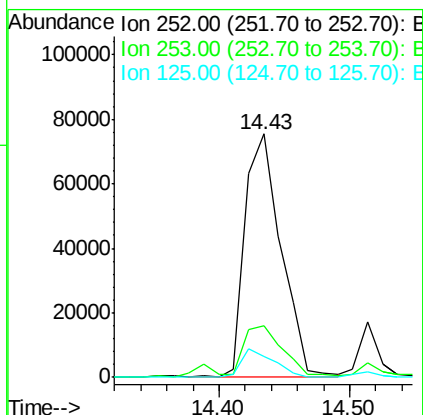
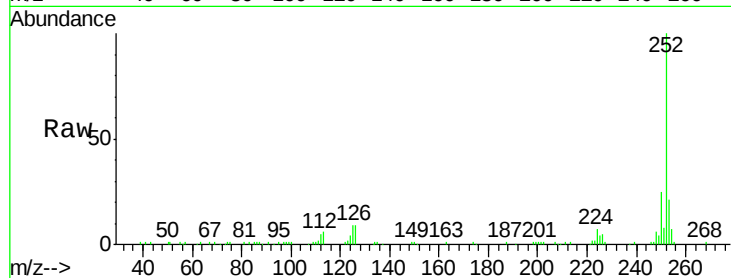




#88
Benzo(k)fluoranthene
Concen: 27.06 ng
RT: 14.43 min Scan# 1124
Delta R.T. -0.02 min
Lab File: BF081527.D
Acq: 8 Sep 2015 17:39

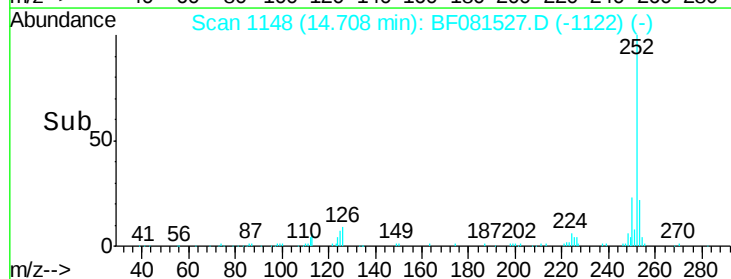
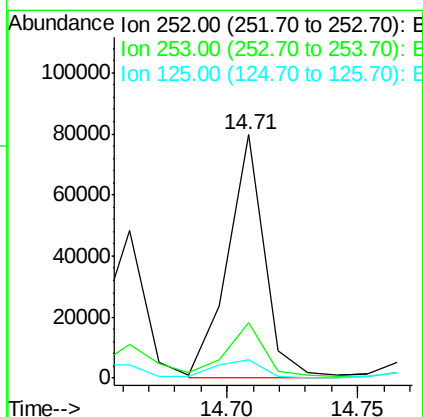
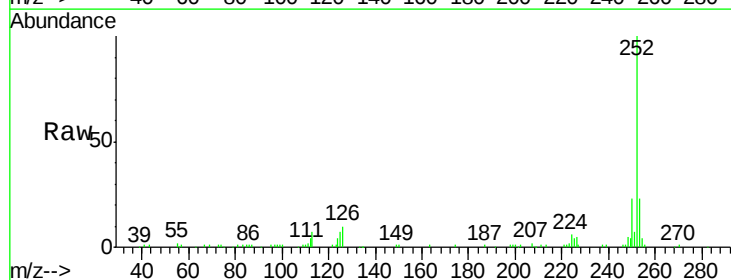
Instrument :
BNA_F
ClientSampleId :

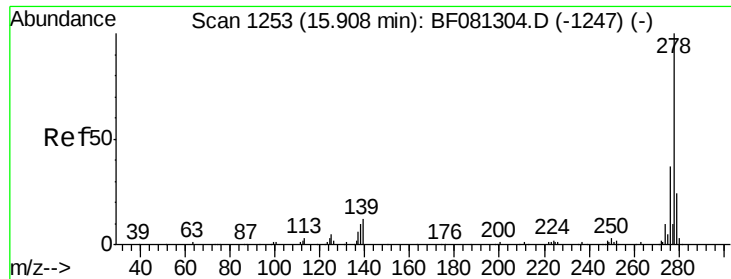
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.0	25.4
125	8.6	16.0	24.0



#89
Benzo(a)pyrene
Concen: 14.47 ng
RT: 14.71 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF081527.D
Acq: 8 Sep 2015 17:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.2	25.8
125	7.4	18.0	27.0



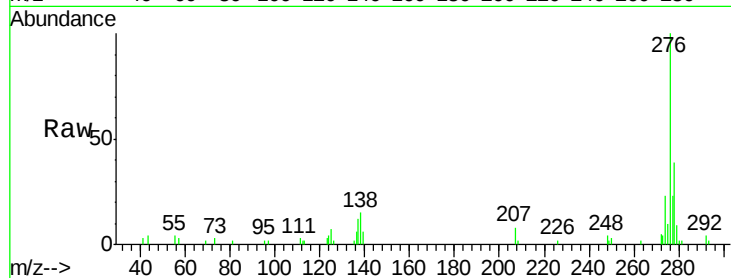


#90
Dibenzo(a,h)anthracene
Concen: 2.82 ng
RT: 15.83 min Scan# 1246
Delta R.T. -0.01 min
Lab File: BF081527.D
Acq: 8 Sep 2015 17:39

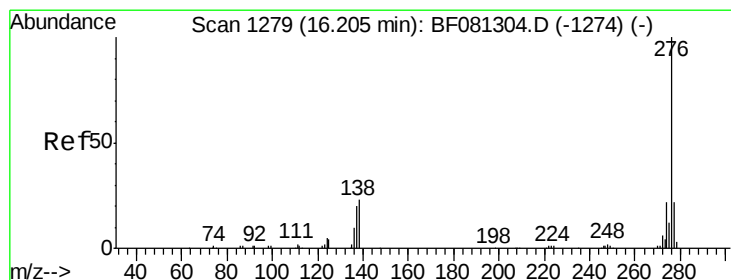
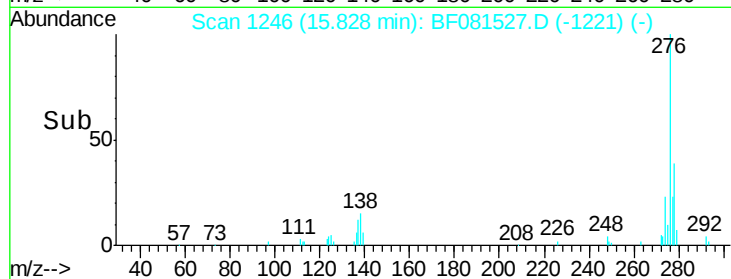
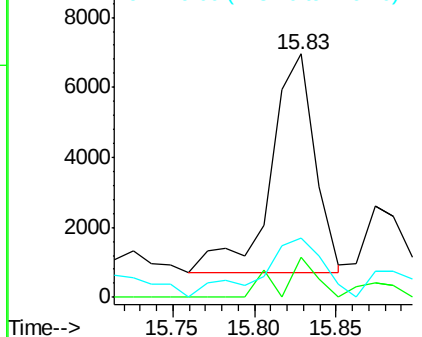
Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 11857

Ion	Ratio	Lower	Upper
278	100		
139	16.5	26.3	39.5#
279	24.5	18.2	27.4



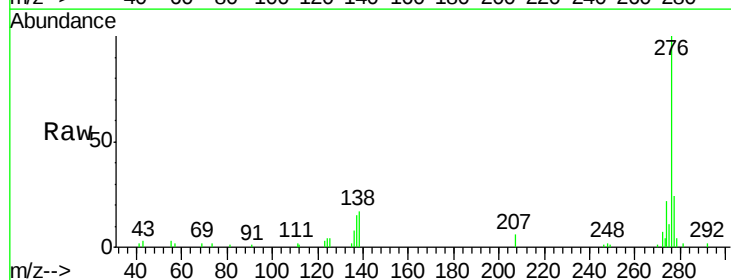
Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 11.85 ng
RT: 16.14 min Scan# 1273
Delta R.T. 0.00 min
Lab File: BF081527.D
Acq: 8 Sep 2015 17:39

Tgt Ion:276 Resp: 47477

Ion	Ratio	Lower	Upper
276	100		
277	24.1	17.8	26.6
138	17.4	34.6	51.8#



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

