

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082915\
 Data File : BF081295.D
 Acq On : 30 Aug 2015 3:34
 Operator : UM/IZ
 Sample : G3430-03DL 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 31 01:12:51 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 24 13:58:19 2015
 Response via : Initial Calibration

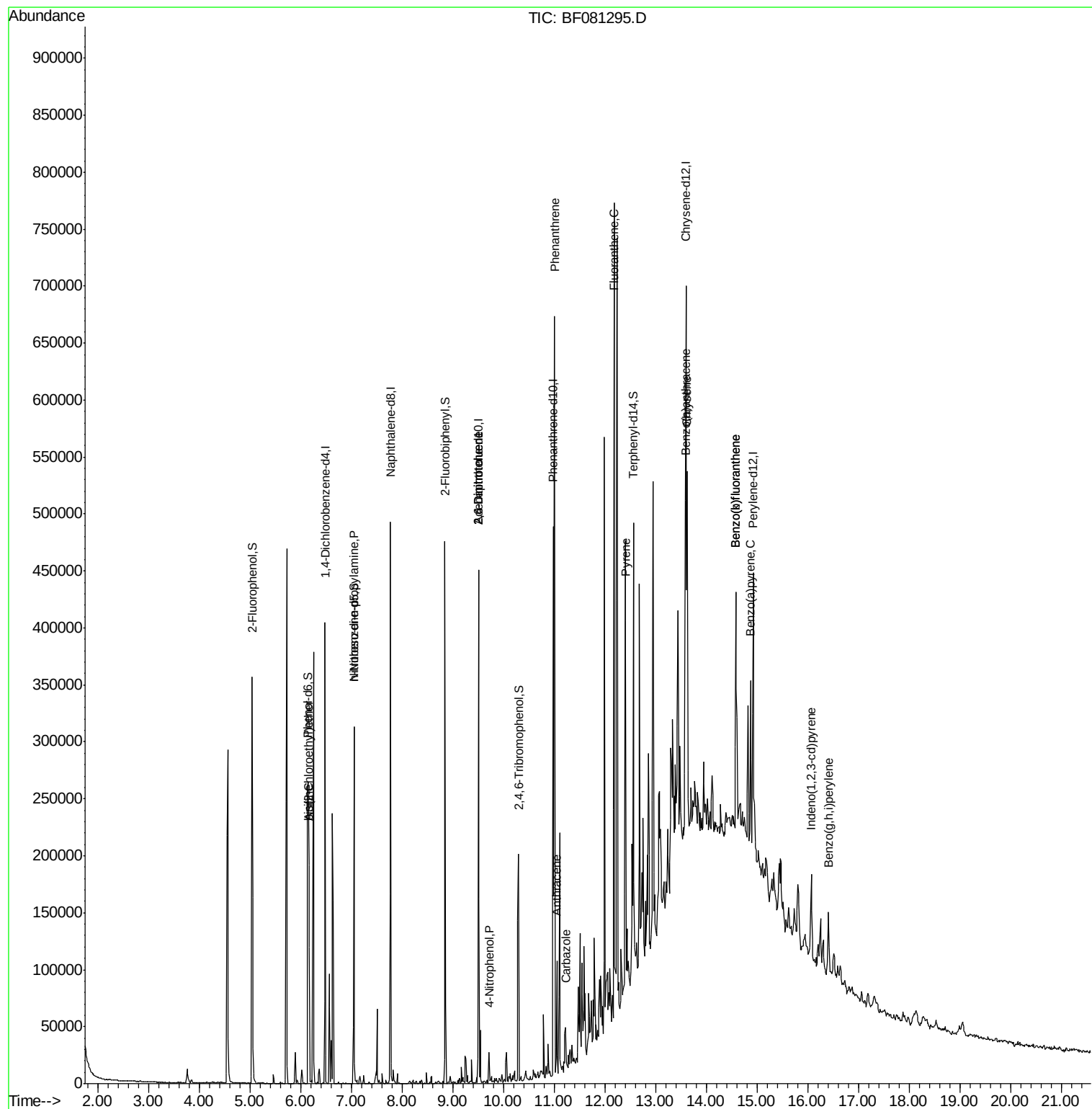
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	54109	20.00	ng	-0.06
21) Naphthalene-d8	7.77	136	216078	20.00	ng	-0.06
38) Acenaphthene-d10	9.51	164	89054	20.00	ng	-0.07
63) Phenanthrene-d10	10.98	188	180324	20.00	ng	-0.06
75) Chrysene-d12	13.60	240	118209	20.00	ng	-0.06
86) Perylene-d12	14.93	264	100197	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.04	112	101992	28.35	ng	-0.06
7) Phenol-d6	6.15	99	134064	28.56	ng	-0.05
23) Nitrobenzene-d5	7.05	82	88967	18.81	ng	-0.07
41) 2,4,6-Tribromophenol	10.30	330	22560	29.22	ng	-0.06
44) 2-Fluorobiphenyl	8.85	172	129603	19.07	ng	-0.06
78) Terphenyl-d14	12.56	244	95746	17.36	ng	-0.07
Target Compounds						
6) Aniline	6.16	93	42471	6.22	ng	# 49
11) bis(2-Chloroethyl)ether	6.16	93	42471	9.98	ng	# 18
19) n-Nitroso-di-n-propylamine	7.05	70	11837	3.64	ng	# 68
50) 2,6-Dinitrotoluene	9.51	165	11573	7.35	ng	# 20
55) 4-Nitrophenol	9.71	139	3553	2.57	ng	# 1
56) 2,4-Dinitrotoluene	9.51	165	11573	5.55	ng	# 16
70) Phenanthrene	11.01	178	228208	21.35	ng	99
71) Anthracene	11.05	178	34144	3.28	ng	99
72) Carbazole	11.22	167	20757	2.07	ng	96
74) Fluoranthene	12.18	202	278083	24.11	ng	95
77) Pyrene	12.41	202	221084	23.01	ng	99
80) Benzo(a)anthracene	13.59	228	69065	8.71	ng	97
82) Chrysene	13.62	228	85433	11.96	ng	96
85) Indeno(1,2,3-cd)pyrene	16.07	276	40501	8.07	ng	# 93
87) Benzo(b)fluoranthene	14.58	252	120534	17.01	ng	# 94
88) Benzo(k)fluoranthene	14.58	252	120534	18.25	ng	97
89) Benzo(a)pyrene	14.87	252	53760	8.71	ng	# 90
91) Benzo(g,h,i)perylene	16.41	276	36381	7.45	ng	# 92

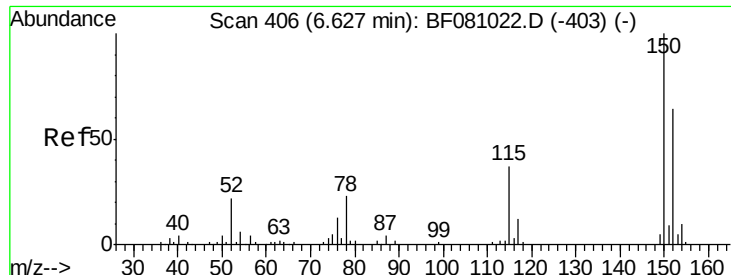
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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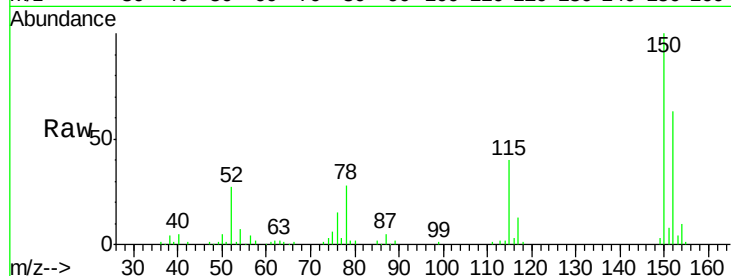


#1

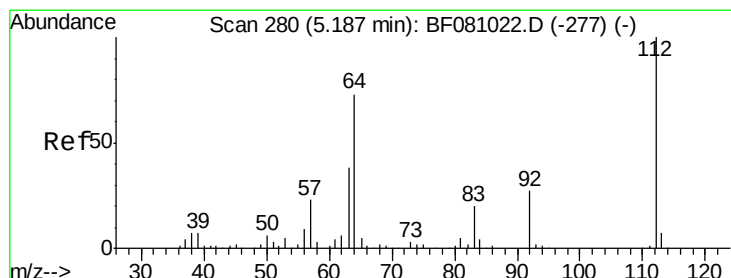
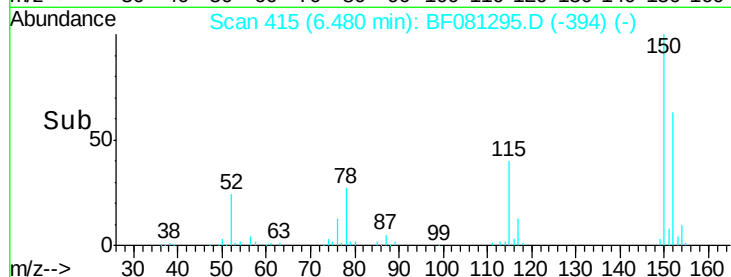
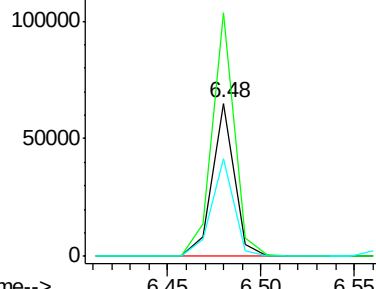
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.48 min Scan# 415
 Delta R.T. -0.06 min
 Lab File: BF081295.D
 Acq: 30 Aug 2015 3:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 54109
 Ion Ratio Lower Upper
 152 100
 150 159.0 123.8 185.6
 115 64.1 52.1 78.1



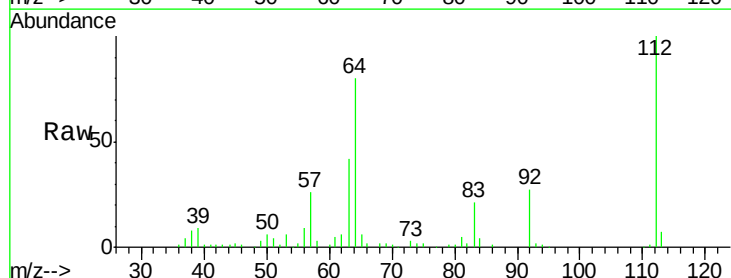
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



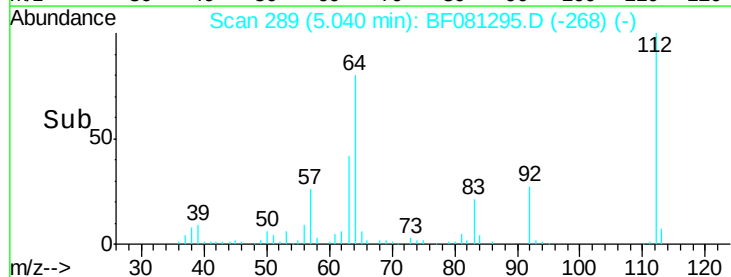
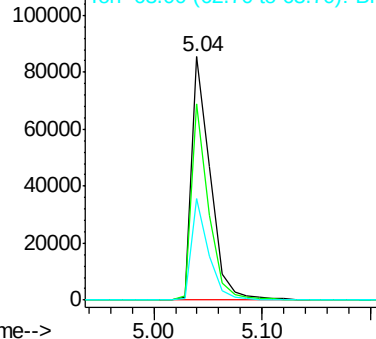
#5

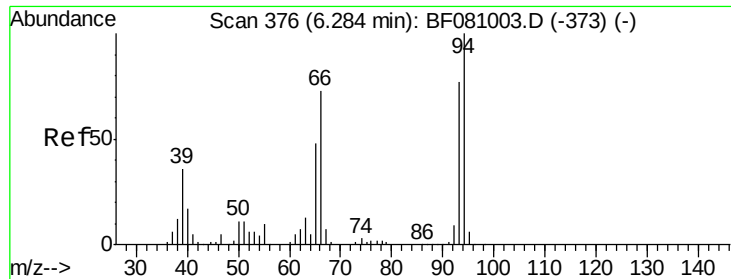
2-Fluorophenol
 Concen: 28.35 ng
 RT: 5.04 min Scan# 289
 Delta R.T. -0.06 min
 Lab File: BF081295.D
 Acq: 30 Aug 2015 3:34

Tgt Ion:112 Resp: 101992
 Ion Ratio Lower Upper
 112 100
 64 80.5 66.9 100.3
 63 41.9 38.1 57.1



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





#6

Aniline

Concen: 6.22 ng

RT: 6.16 min Scan# 387

Delta R.T. -0.05 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

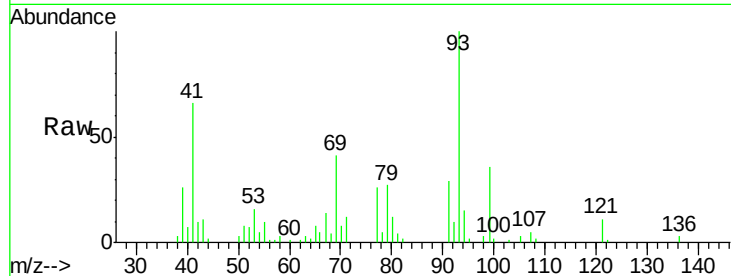
Tot Ion: 93 Resp: 42471

Ion Ratio Lower Upper

93 100

66 4.5 35.6 53.4#

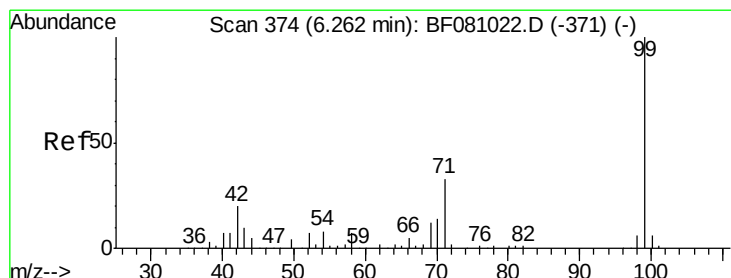
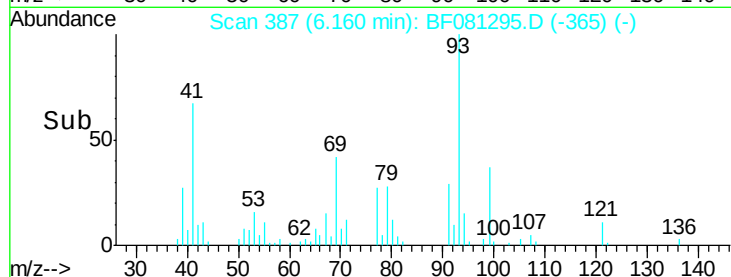
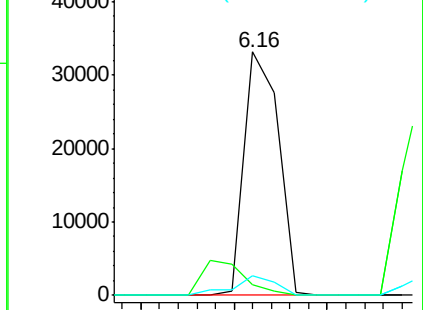
65 8.0 18.7 28.1#



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 28.56 ng

RT: 6.15 min Scan# 386

Delta R.T. -0.05 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

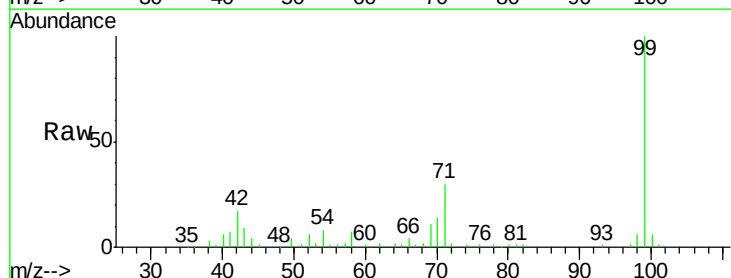
Tgt Ion: 99 Resp: 134064

Ion Ratio Lower Upper

99 100

42 17.3 19.6 29.4#

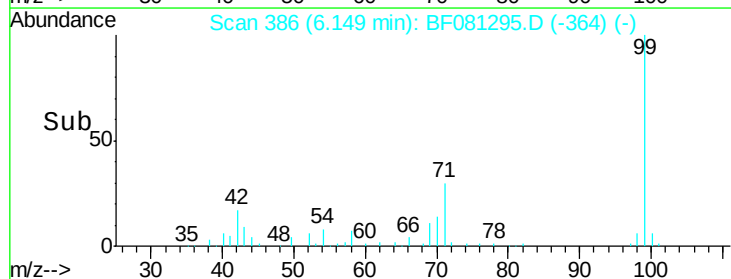
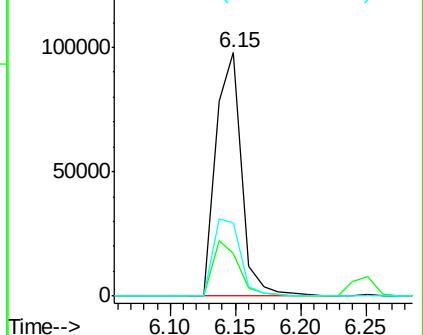
71 30.2 31.2 46.8#

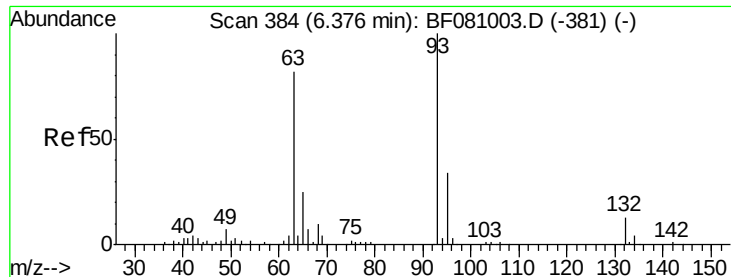


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

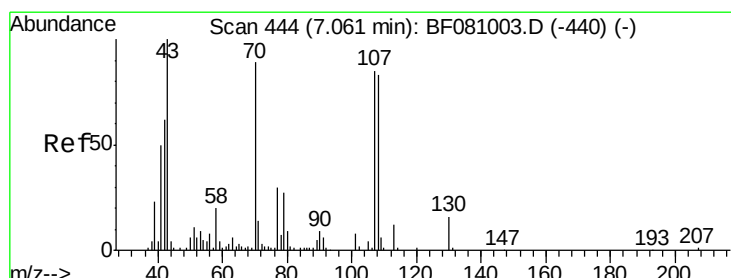
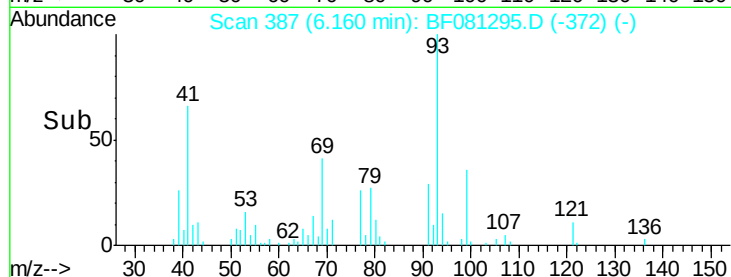
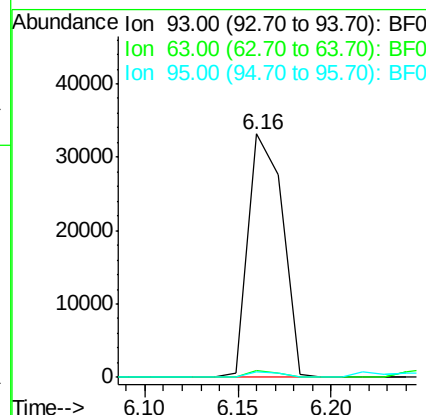
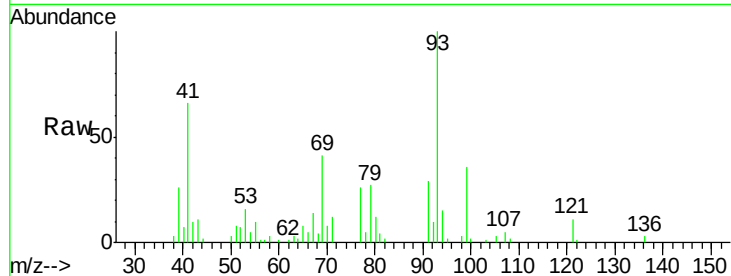




#11
bis(2-Chloroethyl)ether
Concen: 9.98 ng
RT: 6.16 min Scan# 387
Delta R.T. -0.13 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

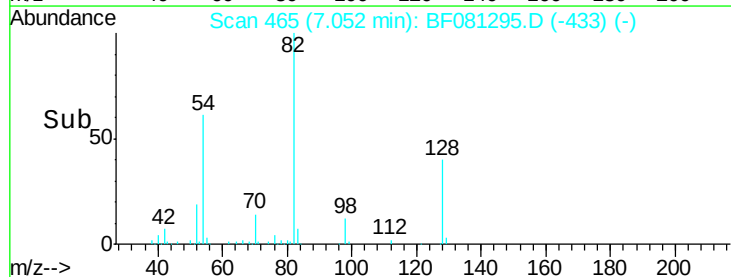
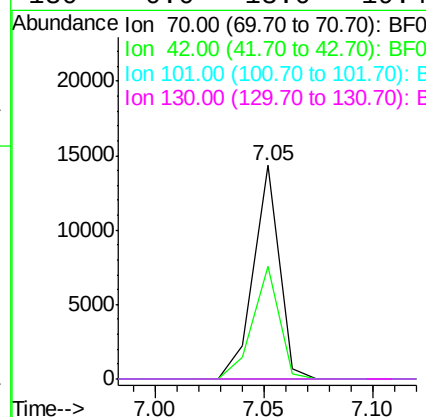
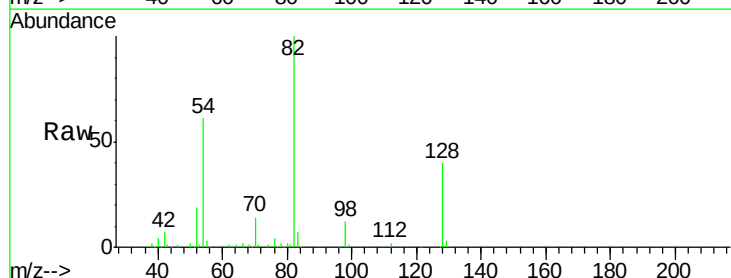
Instrument :
BNA_F
ClientSampleId :

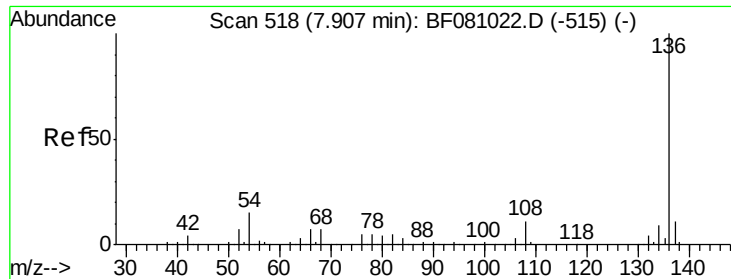
Tot Ion: 93 Resp: 42471
Ion Ratio Lower Upper
93 100
63 2.8 69.6 109.6#
95 2.3 12.3 52.3#



#19
n-Nitroso-di-n-propylamine
Concen: 3.64 ng
RT: 7.05 min Scan# 465
Delta R.T. 0.07 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Tgt Ion: 70 Resp: 11837
Ion Ratio Lower Upper
70 100
42 52.9 65.0 97.4#
101 0.0 7.4 11.2#
130 0.0 13.0 19.4#

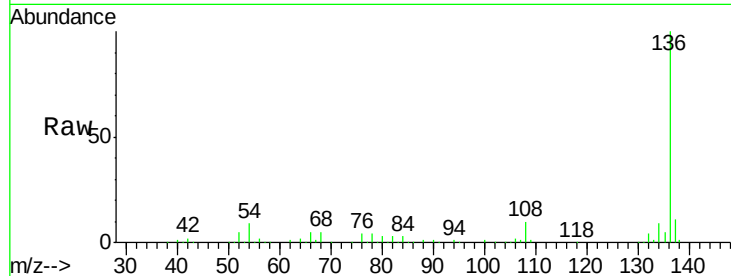




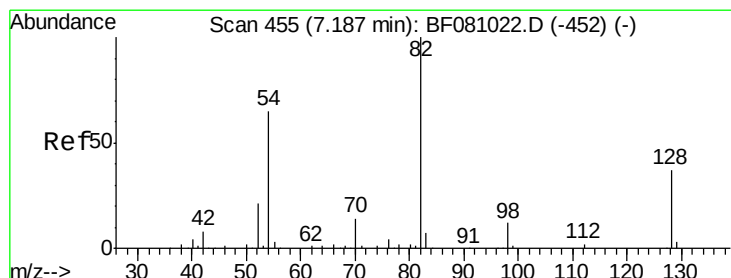
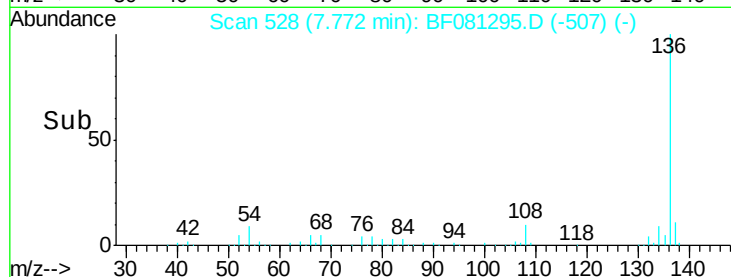
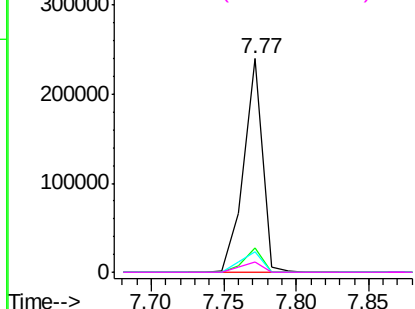
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.77 min Scan# 528
Delta R.T. -0.06 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	216078
Ion Ratio	Lower	Upper
136	100	
137	11.2	8.2 12.2
54	9.4	7.7 11.5
68	5.1	3.4 5.2

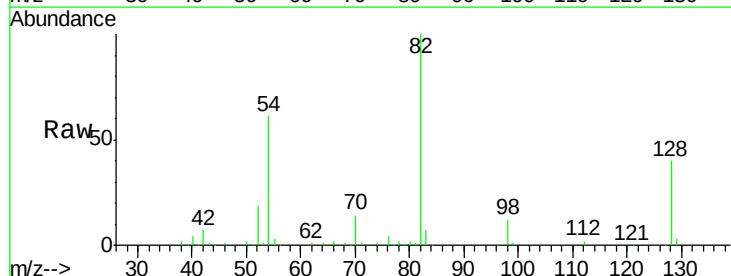


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

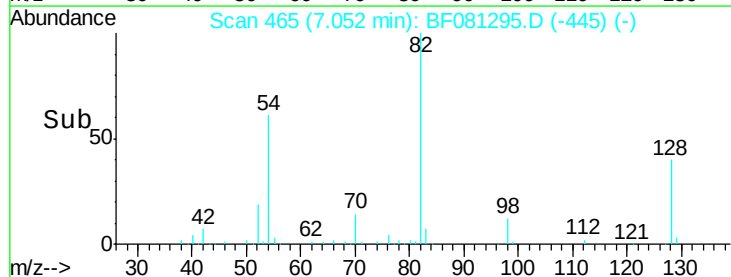
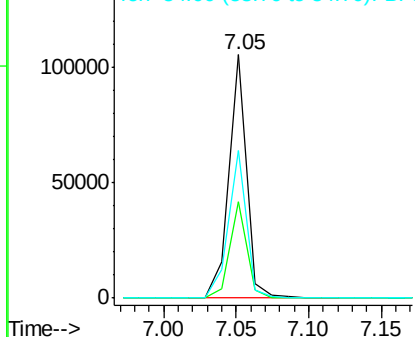


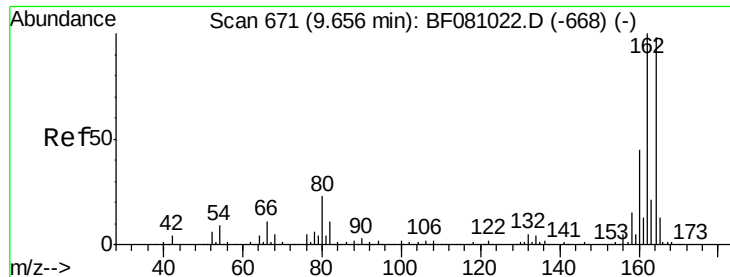
#23
Nitrobenzene-d5
Concen: 18.81 ng
RT: 7.05 min Scan# 465
Delta R.T. -0.07 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Tgt Ion: 82	Resp:	88967
Ion Ratio	Lower	Upper
82	100	
128	39.6	28.6 42.8
54	60.7	55.1 82.7



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

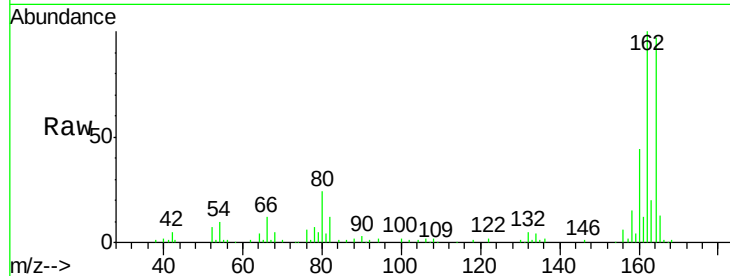




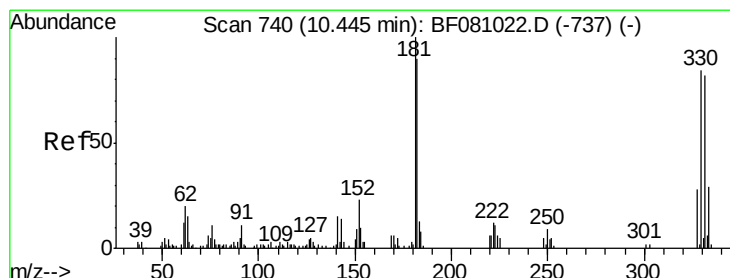
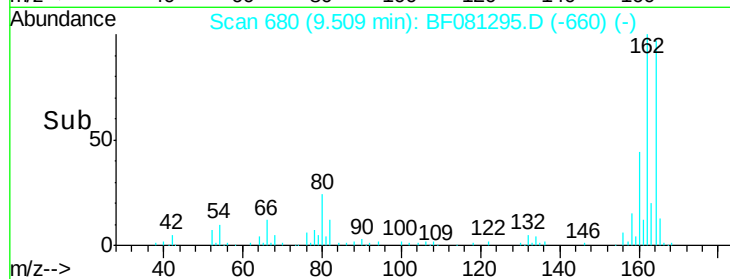
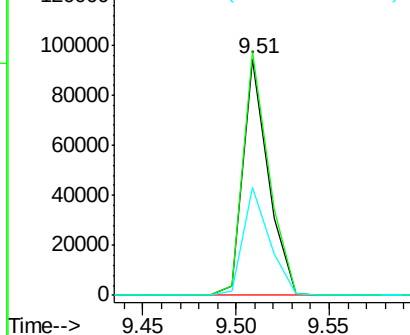
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.51 min Scan# 680
 Delta R.T. -0.07 min
 Lab File: BF081295.D
 Acq: 30 Aug 2015 3:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 89054
 Ion Ratio Lower Upper
 164 100
 162 102.9 83.8 125.8
 160 45.6 39.8 59.8

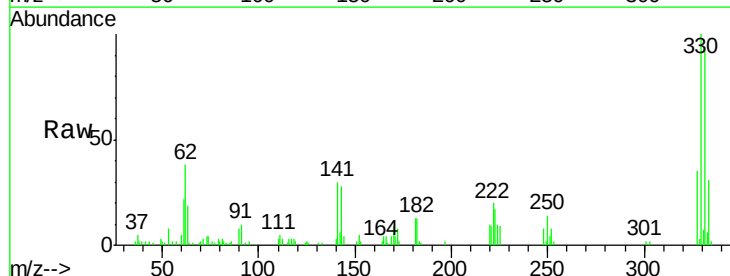


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

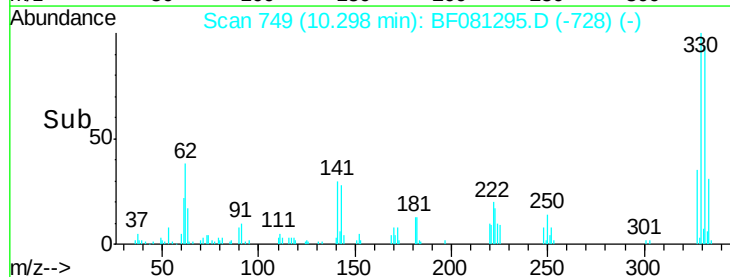
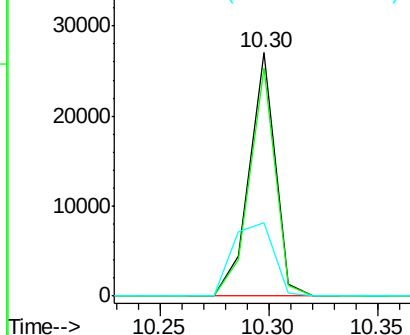


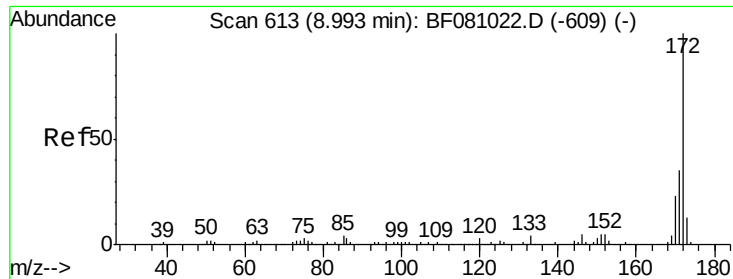
#41
 2,4,6-Tribromophenol
 Concen: 29.22 ng
 RT: 10.30 min Scan# 749
 Delta R.T. -0.06 min
 Lab File: BF081295.D
 Acq: 30 Aug 2015 3:34

Tgt Ion:330 Resp: 22560
 Ion Ratio Lower Upper
 330 100
 332 92.7 77.3 115.9
 141 47.6 44.9 67.3



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

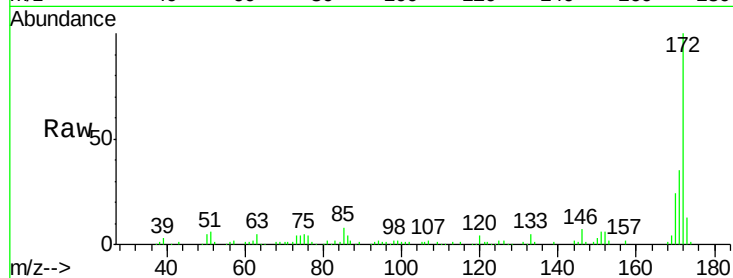




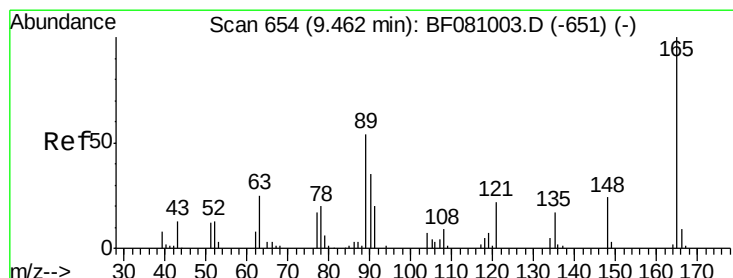
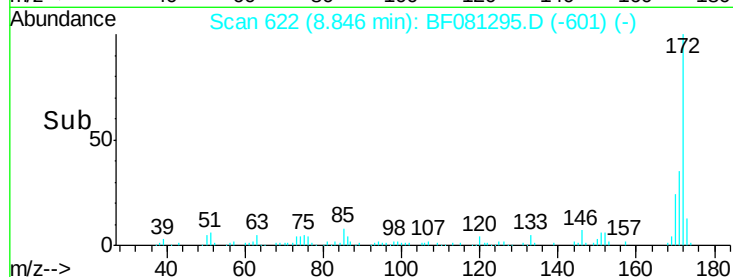
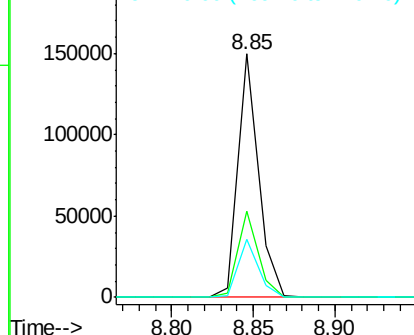
#44
2-Fluorobiphenyl
Concen: 19.07 ng
RT: 8.85 min Scan# 622
Delta R.T. -0.06 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 129603
Ion Ratio Lower Upper
172 100
171 35.5 28.9 43.3
170 23.6 19.4 29.2

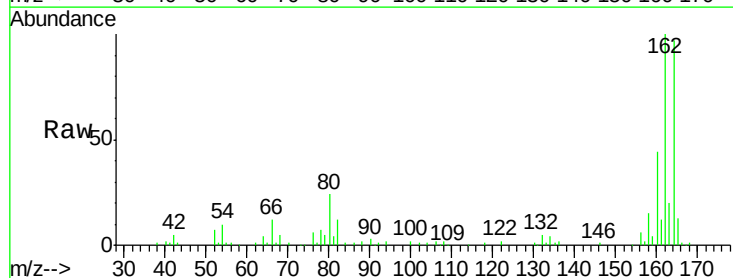


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

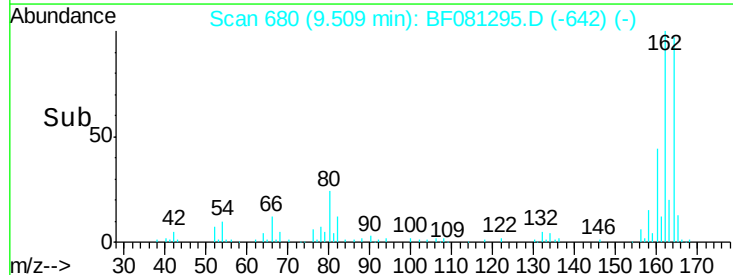
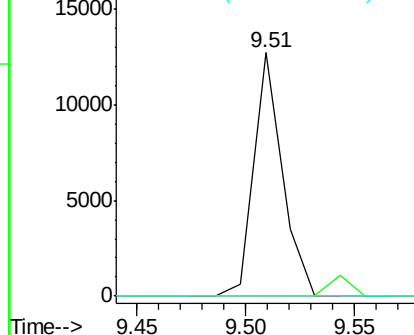


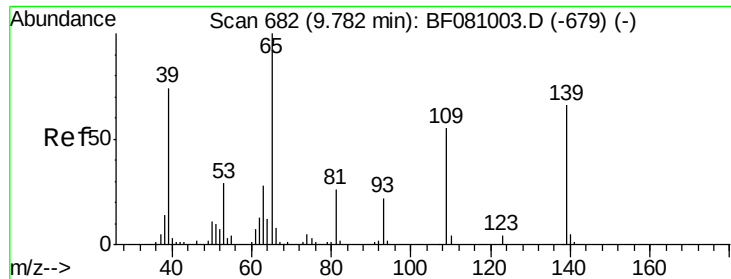
#50
2,6-Dinitrotoluene
Concen: 7.35 ng
RT: 9.51 min Scan# 680
Delta R.T. 0.14 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Tgt Ion:165 Resp: 11573
Ion Ratio Lower Upper
165 100
63 0.0 49.5 74.3#
89 0.0 47.6 71.4#



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

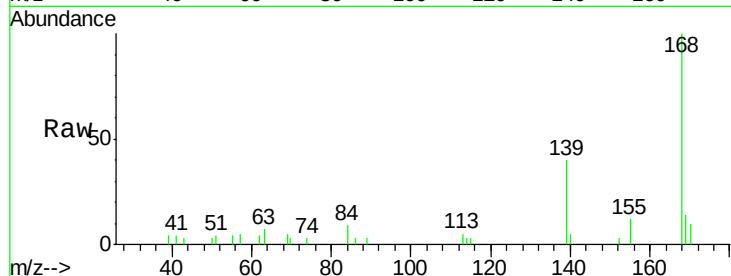




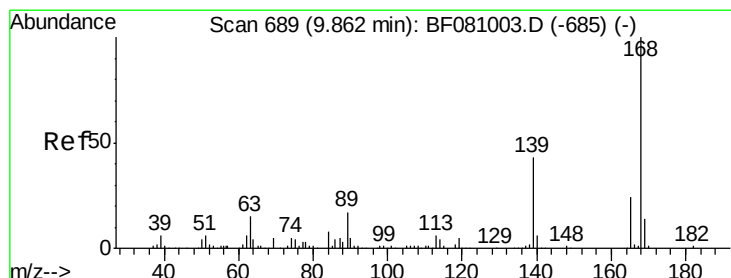
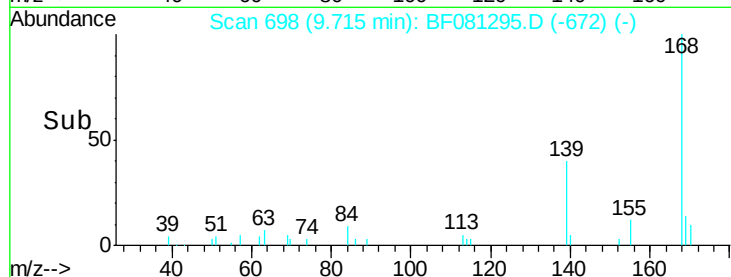
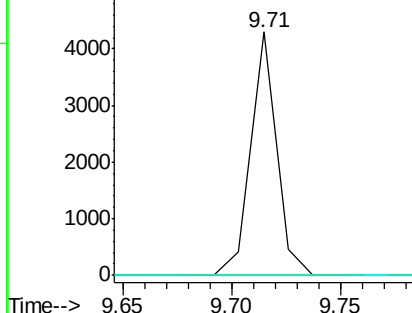
#55
4-Nitrophenol
Concen: 2.57 ng
RT: 9.71 min Scan# 698
Delta R.T. -0.00 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	80.0	120.0#
65	0.0	138.3	178.3#



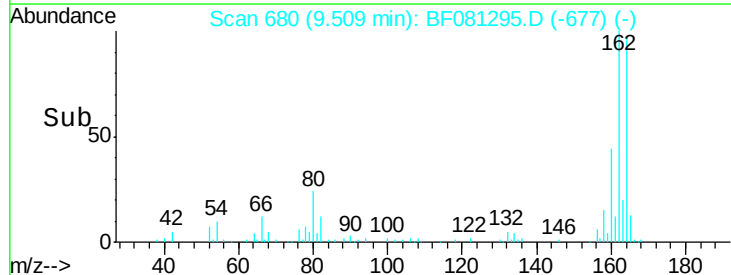
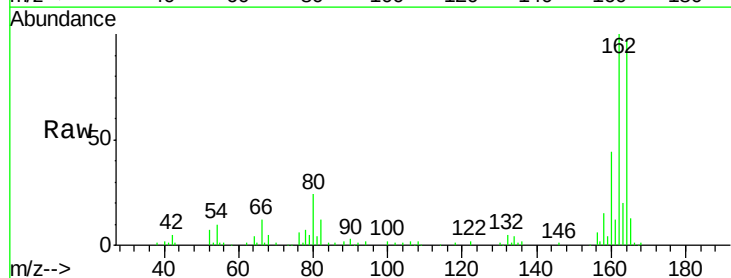
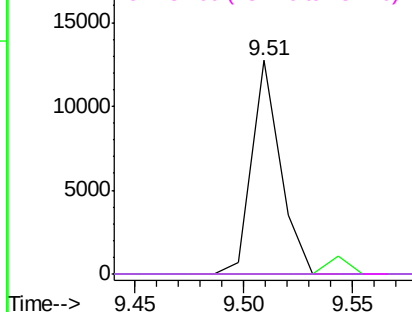
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

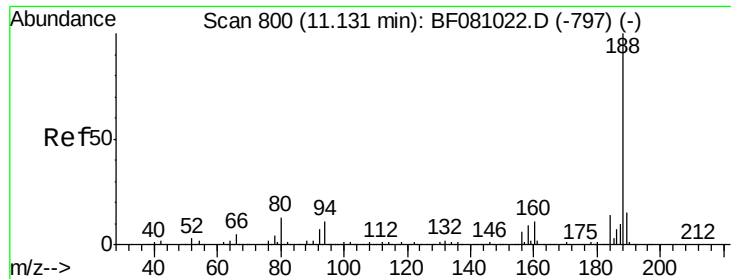


#56
2,4-Dinitrotoluene
Concen: 5.55 ng
RT: 9.51 min Scan# 680
Delta R.T. -0.26 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	52.2	78.4#
89	0.0	60.1	90.1#
182	0.0	1.8	2.6#

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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.98 min Scan# 809

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampled :

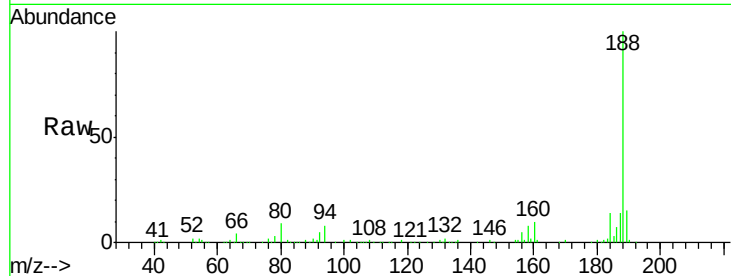
Tot Ion:188 Resp: 180324

Ion Ratio Lower Upper

188 100

94 8.1 8.2 12.2#

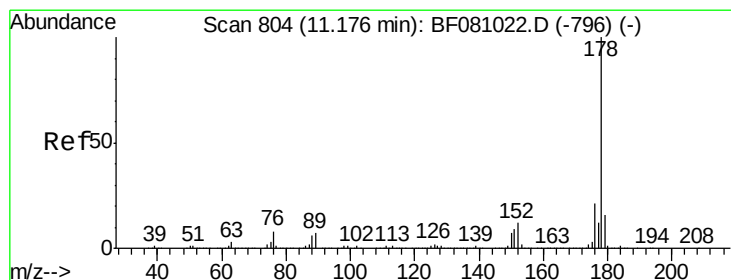
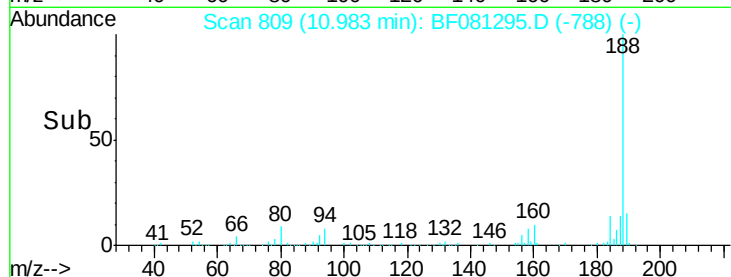
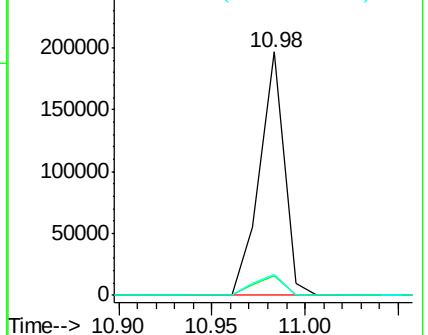
80 8.5 9.5 14.3#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 21.35 ng

RT: 11.01 min Scan# 811

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

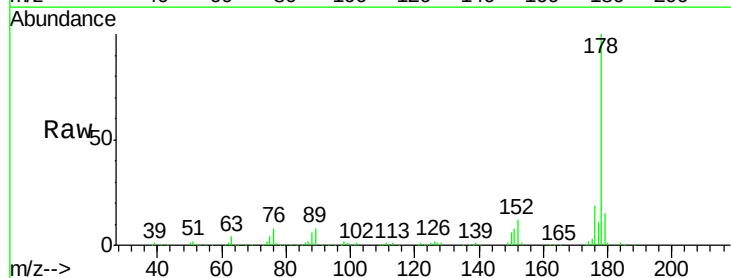
Tgt Ion:178 Resp: 228208

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

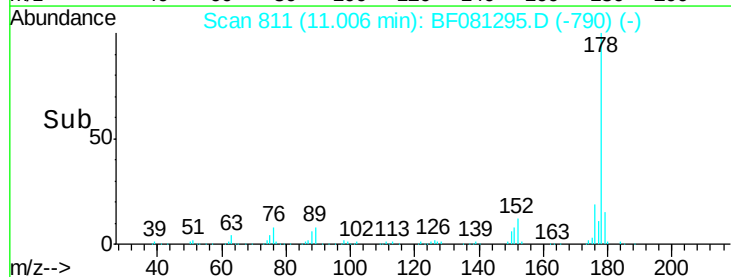
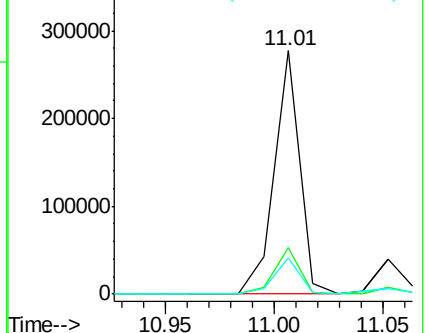
179 15.0 12.2 18.2

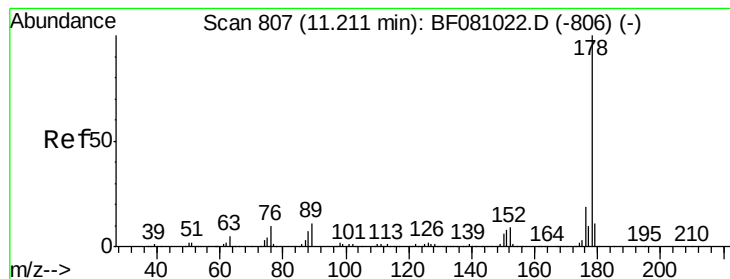


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.28 ng

RT: 11.05 min Scan# 815

Delta R.T. -0.07 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

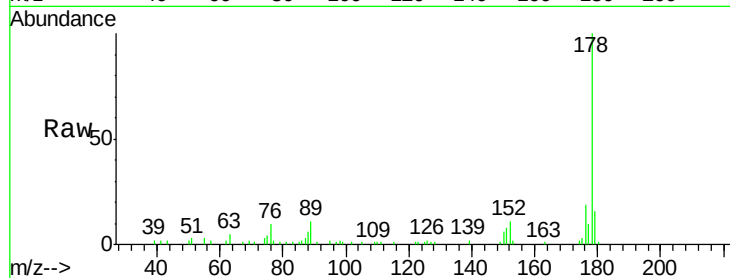
Tot Ion:178 Resp: 34144

Ion Ratio Lower Upper

178 100

176 18.6 15.7 23.5

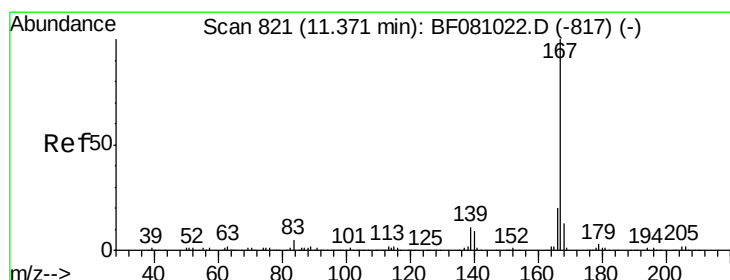
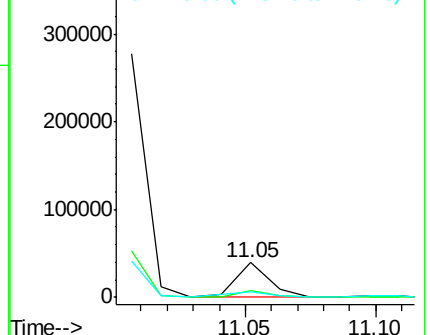
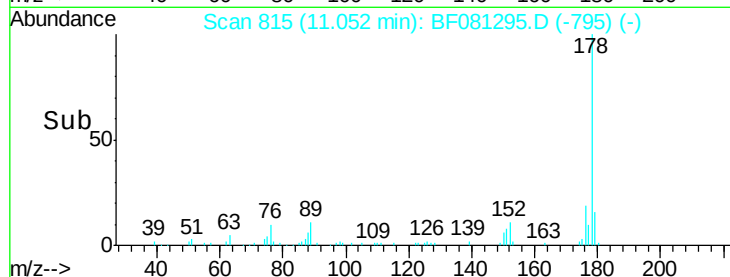
179 16.0 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 2.07 ng

RT: 11.22 min Scan# 830

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

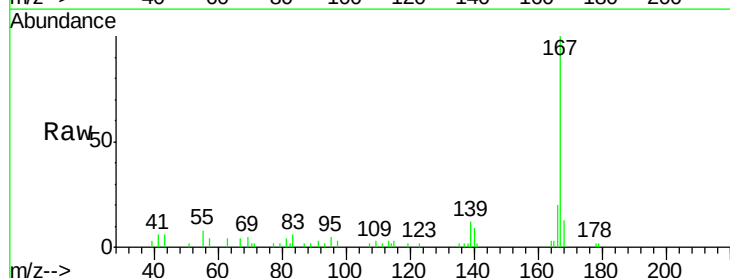
Tgt Ion:167 Resp: 20757

Ion Ratio Lower Upper

167 100

166 20.1 17.4 26.0

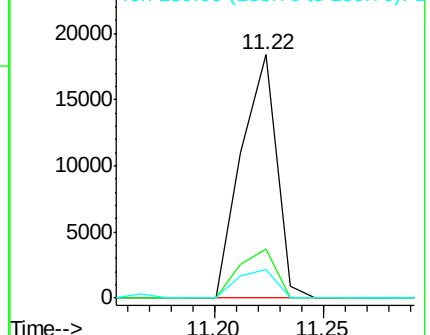
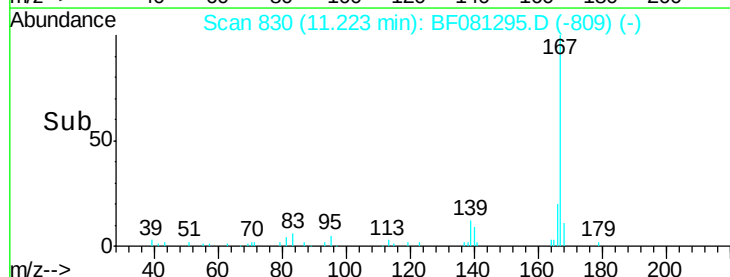
139 11.6 10.6 16.0

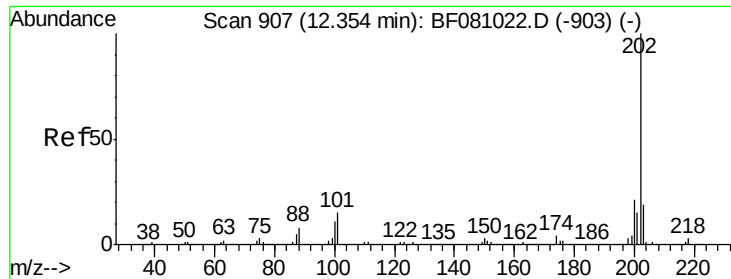


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 24.11 ng

RT: 12.18 min Scan# 914

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

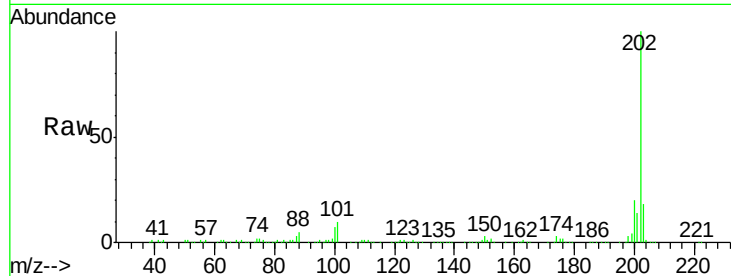
Tot Ion:202 Resp: 278083

Ion Ratio Lower Upper

202 100

101 9.9 0.0 24.8

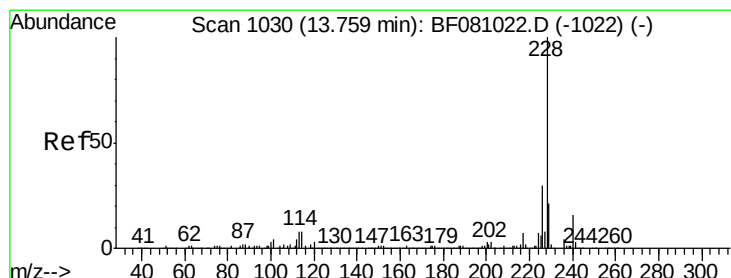
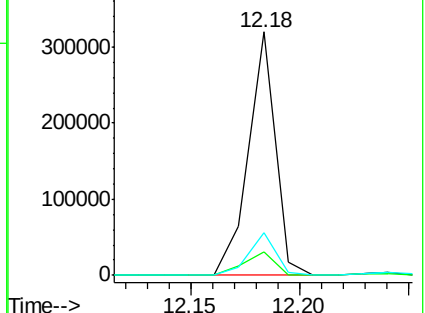
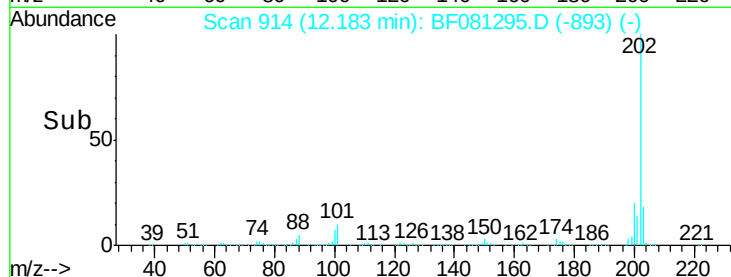
203 17.7 0.0 36.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.60 min Scan# 1038

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

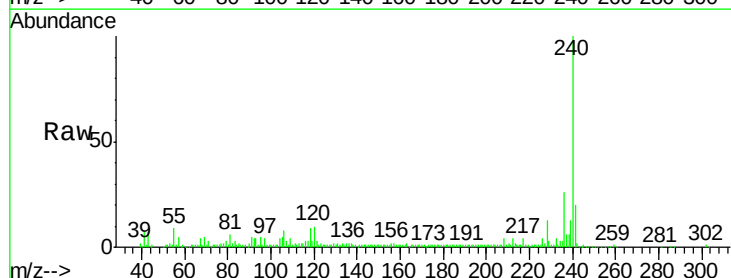
Tgt Ion:240 Resp: 118209

Ion Ratio Lower Upper

240 100

120 10.5 5.6 8.4#

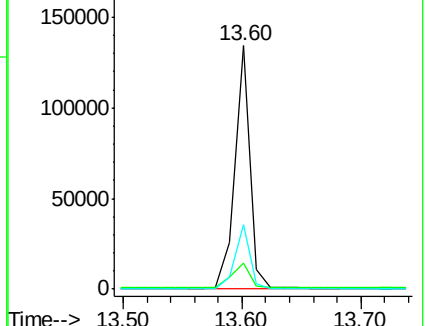
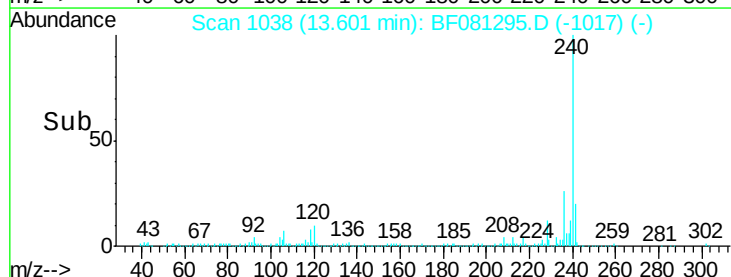
236 26.4 20.6 30.8

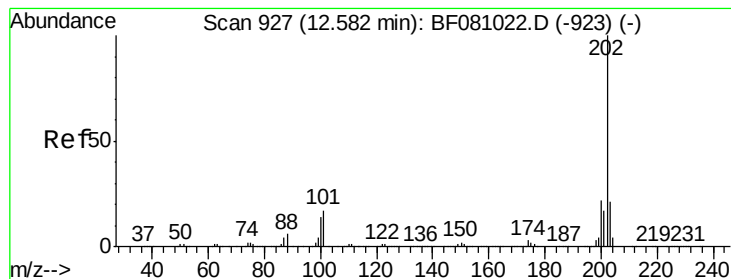


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 23.01 ng

RT: 12.41 min Scan# 934

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

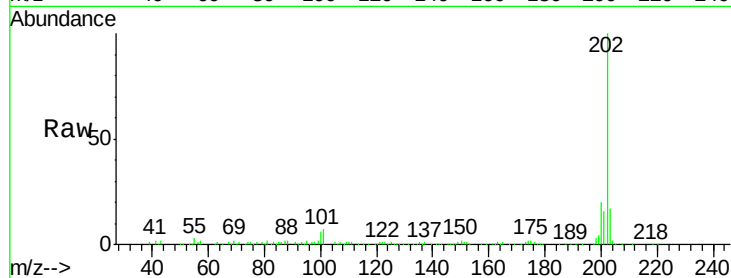
Tot Ion:202 Resp: 221084

Ion Ratio Lower Upper

202 100

200 20.3 16.6 24.8

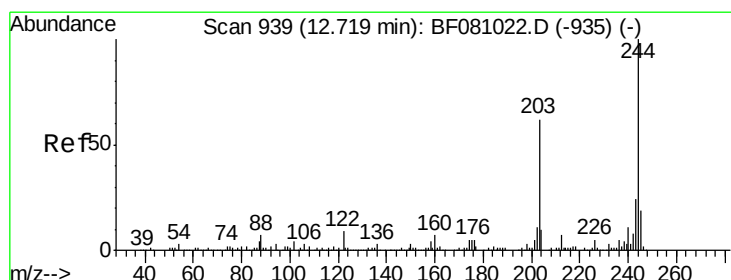
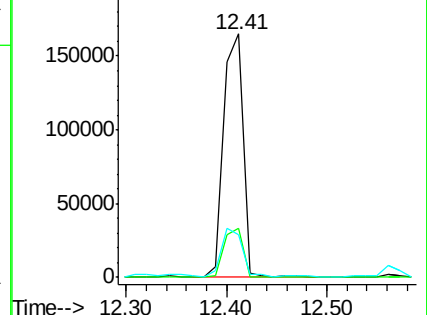
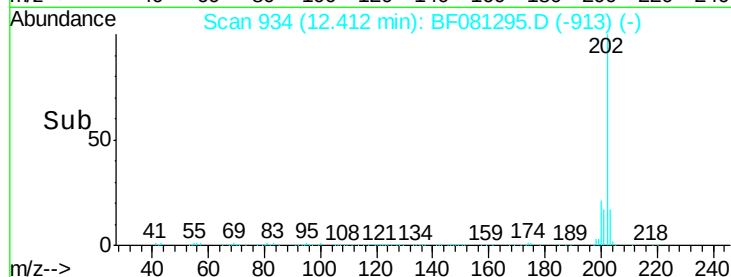
203 17.4 14.1 21.1



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: 17.36 ng

RT: 12.56 min Scan# 947

Delta R.T. -0.07 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

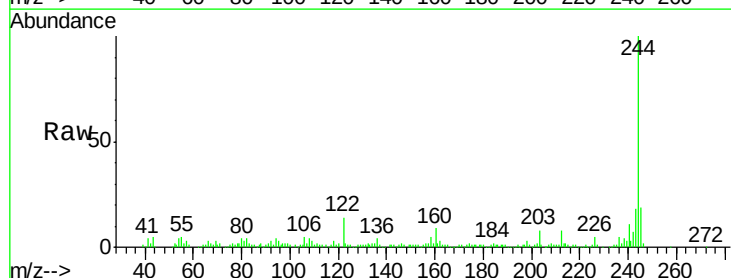
Tgt Ion:244 Resp: 95746

Ion Ratio Lower Upper

244 100

212 8.0 5.8 8.8

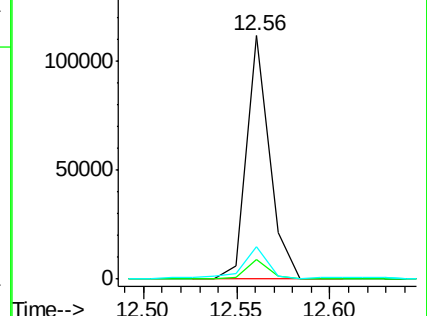
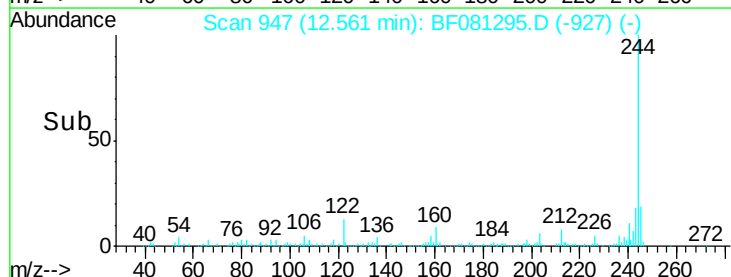
122 13.5 8.2 12.4#

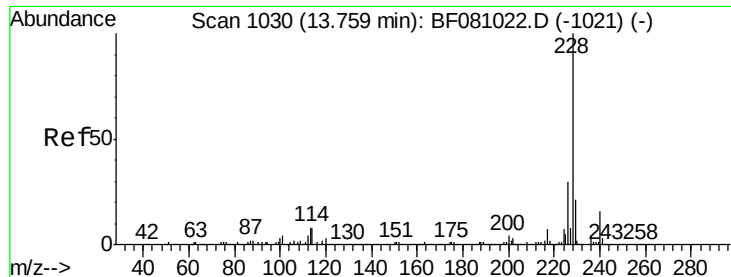


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.71 ng

RT: 13.59 min Scan# 1037

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

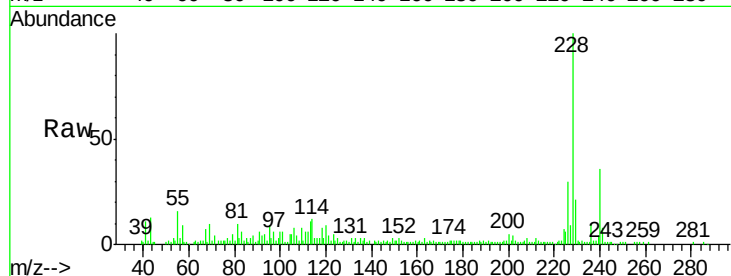
Tot Ion:228 Resp: 69065

Ion Ratio Lower Upper

228 100

226 29.7 22.3 33.5

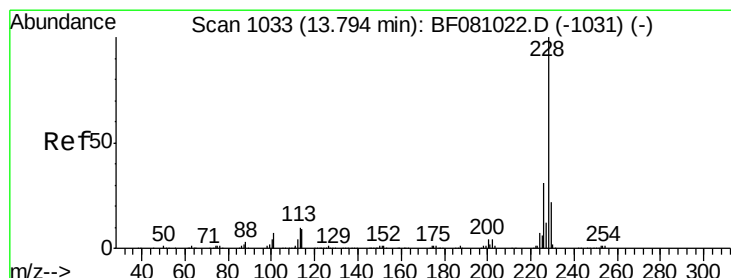
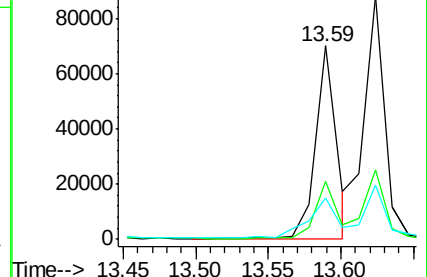
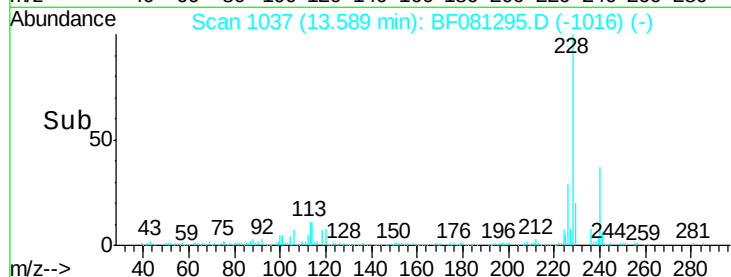
229 21.2 15.9 23.9



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: 11.96 ng

RT: 13.62 min Scan# 1040

Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

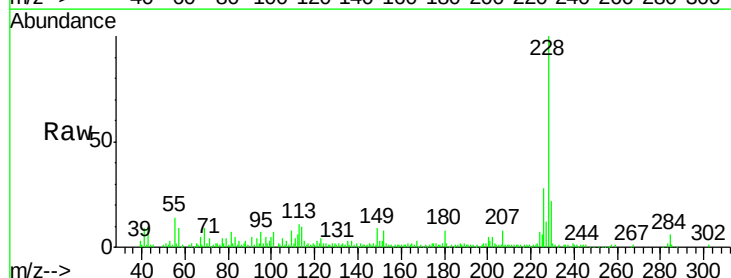
Tgt Ion:228 Resp: 85433

Ion Ratio Lower Upper

228 100

226 28.3 24.4 36.6

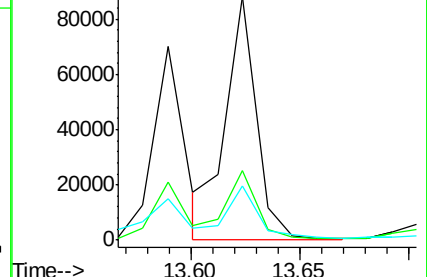
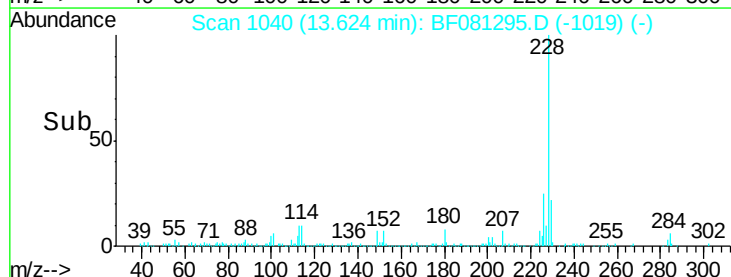
229 22.1 16.0 24.0

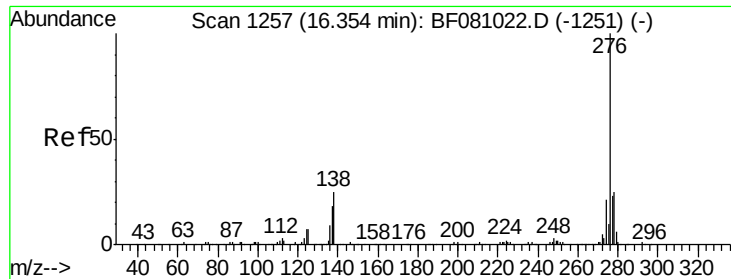


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 8.07 ng

RT: 16.07 min Scan# 1254

Delta R.T. -0.09 min

Lab File: BF081295.D

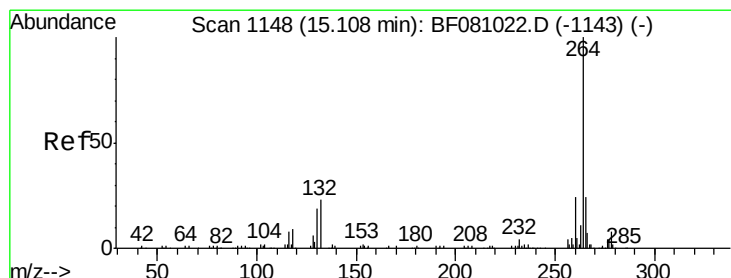
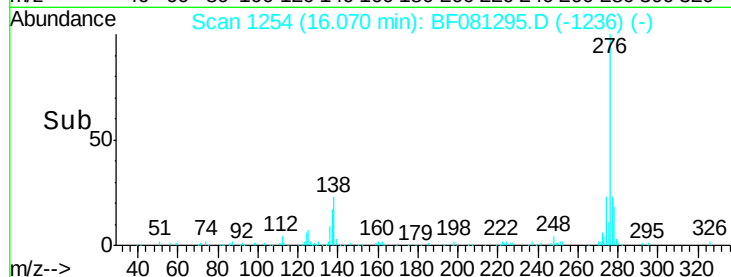
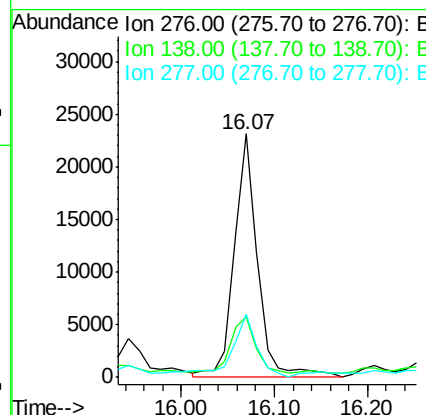
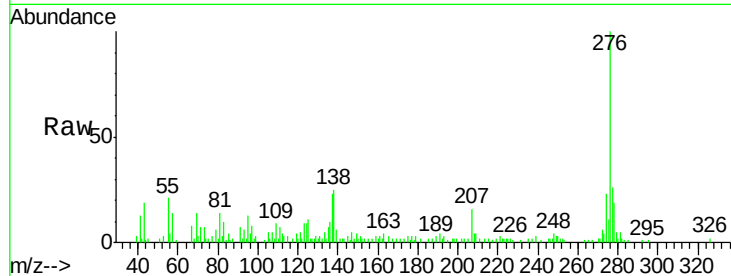
Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	276	Resp:	40501
Ion	Ratio	Lower	Upper
276	100		
138	24.6	18.6	28.0
277	30.1	19.8	29.8#



#86

Perylene-d12

Concen: 20.00 ng

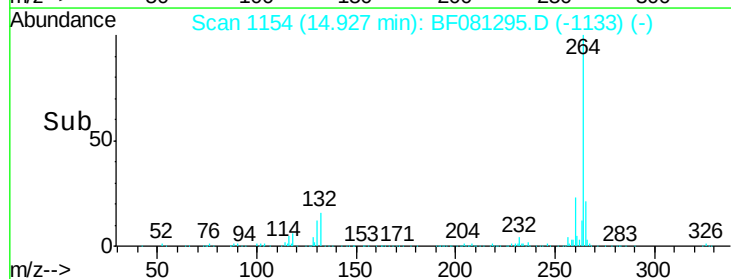
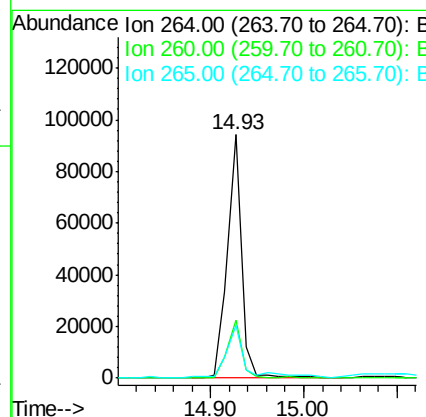
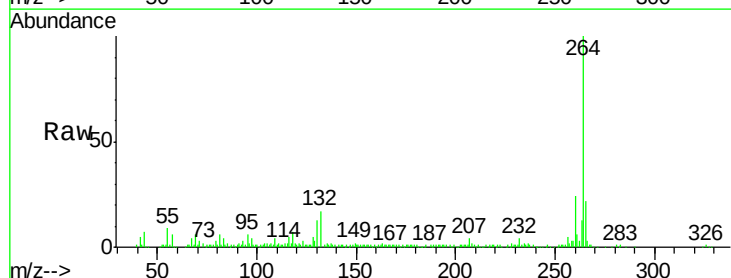
RT: 14.93 min Scan# 1154

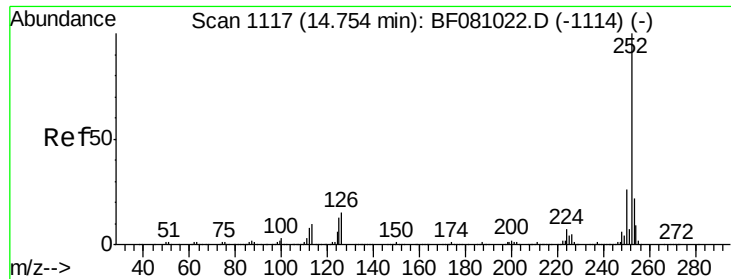
Delta R.T. -0.06 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Tgt Ion:	264	Resp:	100197
Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.6	29.4
265	21.7	17.5	26.3

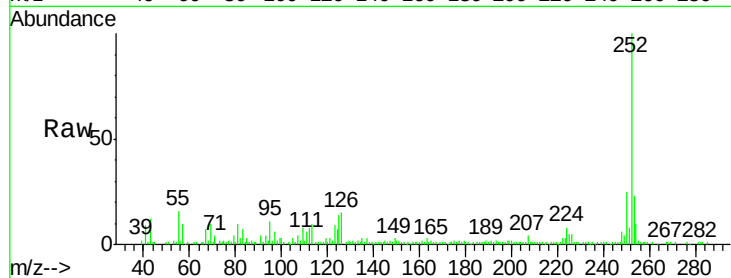




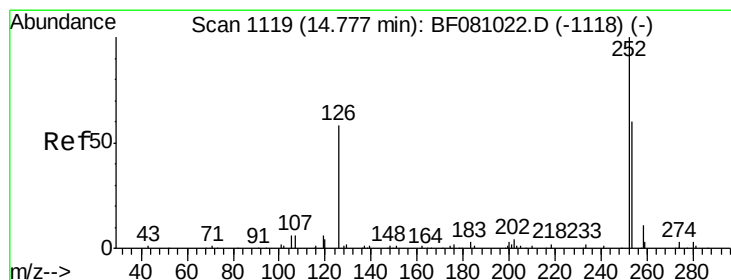
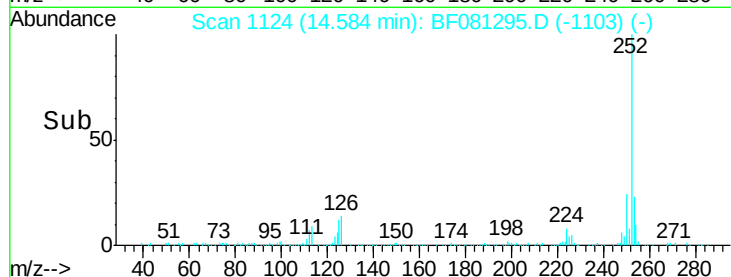
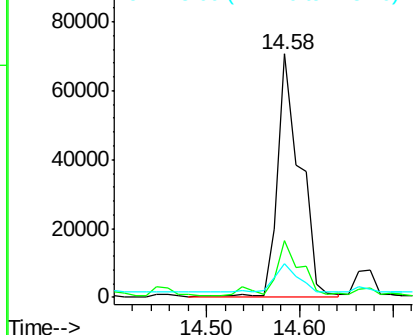
#87
Benzo(b)fluoranthene
Concen: 17.01 ng
RT: 14.58 min Scan# 1124
Delta R.T. -0.06 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	14.0	8.0	12.0

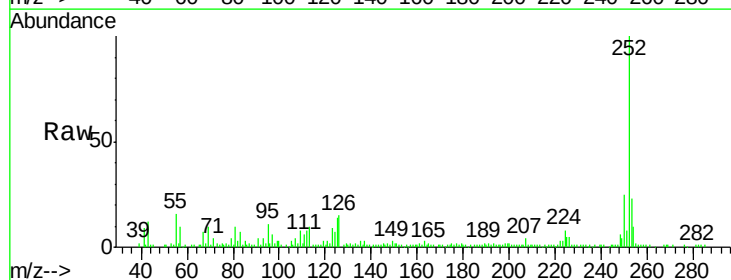


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

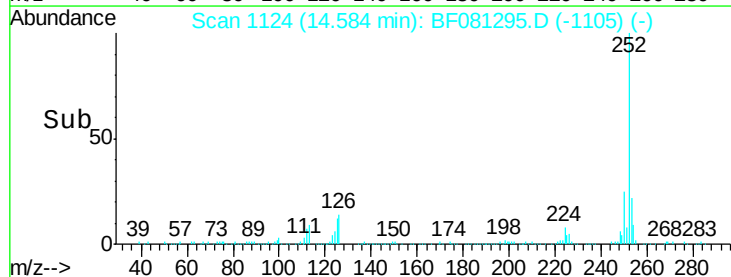
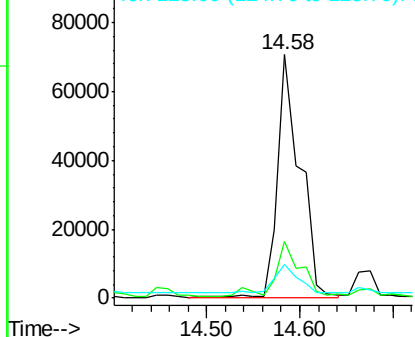


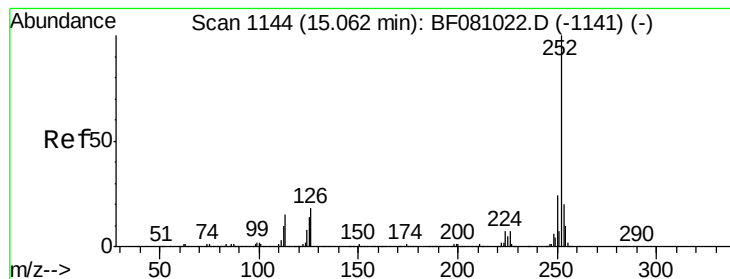
#88
Benzo(k)fluoranthene
Concen: 18.25 ng
RT: 14.58 min Scan# 1124
Delta R.T. -0.08 min
Lab File: BF081295.D
Acq: 30 Aug 2015 3:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.6	26.4
125	14.0	10.3	15.5



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





#89

Benzo(a)pyrene

Concen: 8.71 ng

RT: 14.87 min Scan# 1149

Delta R.T. -0.07 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

Instrument :

BNA_F

ClientSampleId :

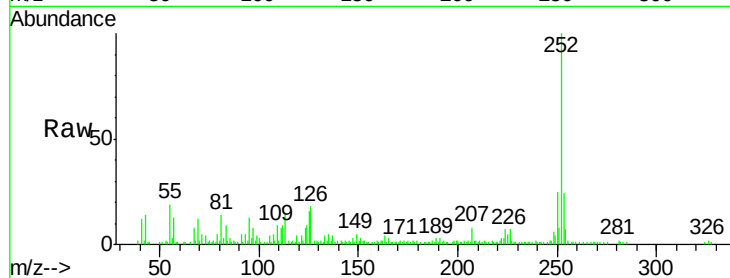
Tot Ion:252 Resp: 53760

Ion Ratio Lower Upper

252 100

253 24.3 16.6 25.0

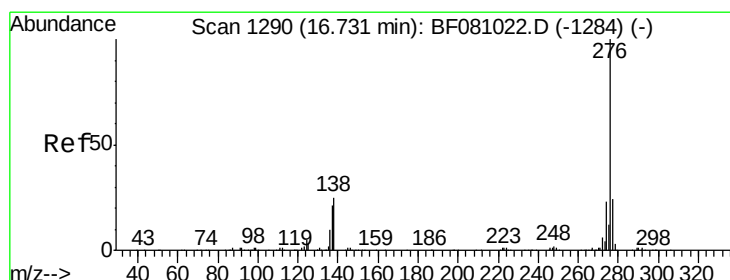
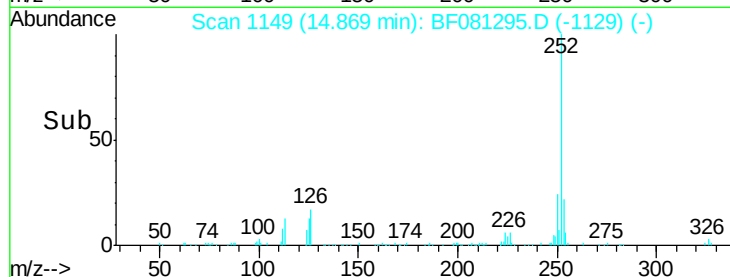
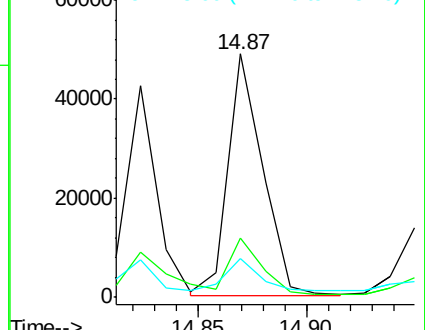
125 16.0 7.8 11.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.45 ng

RT: 16.41 min Scan# 1284

Delta R.T. -0.10 min

Lab File: BF081295.D

Acq: 30 Aug 2015 3:34

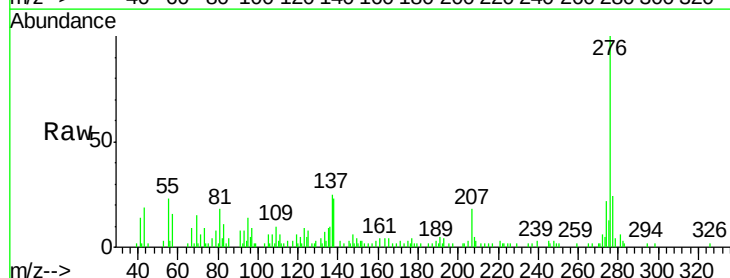
Tgt Ion:276 Resp: 36381

Ion Ratio Lower Upper

276 100

277 24.1 18.2 27.2

138 23.4 13.7 20.5#



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

