

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101915\
 Data File : BF082382.D
 Acq On : 20 Oct 2015 5:02
 Operator : UM/IZ
 Sample : G4051-06RE
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015RE

Quant Time: Oct 20 07:46:10 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 01:46:21 2015
 Response via : Initial Calibration

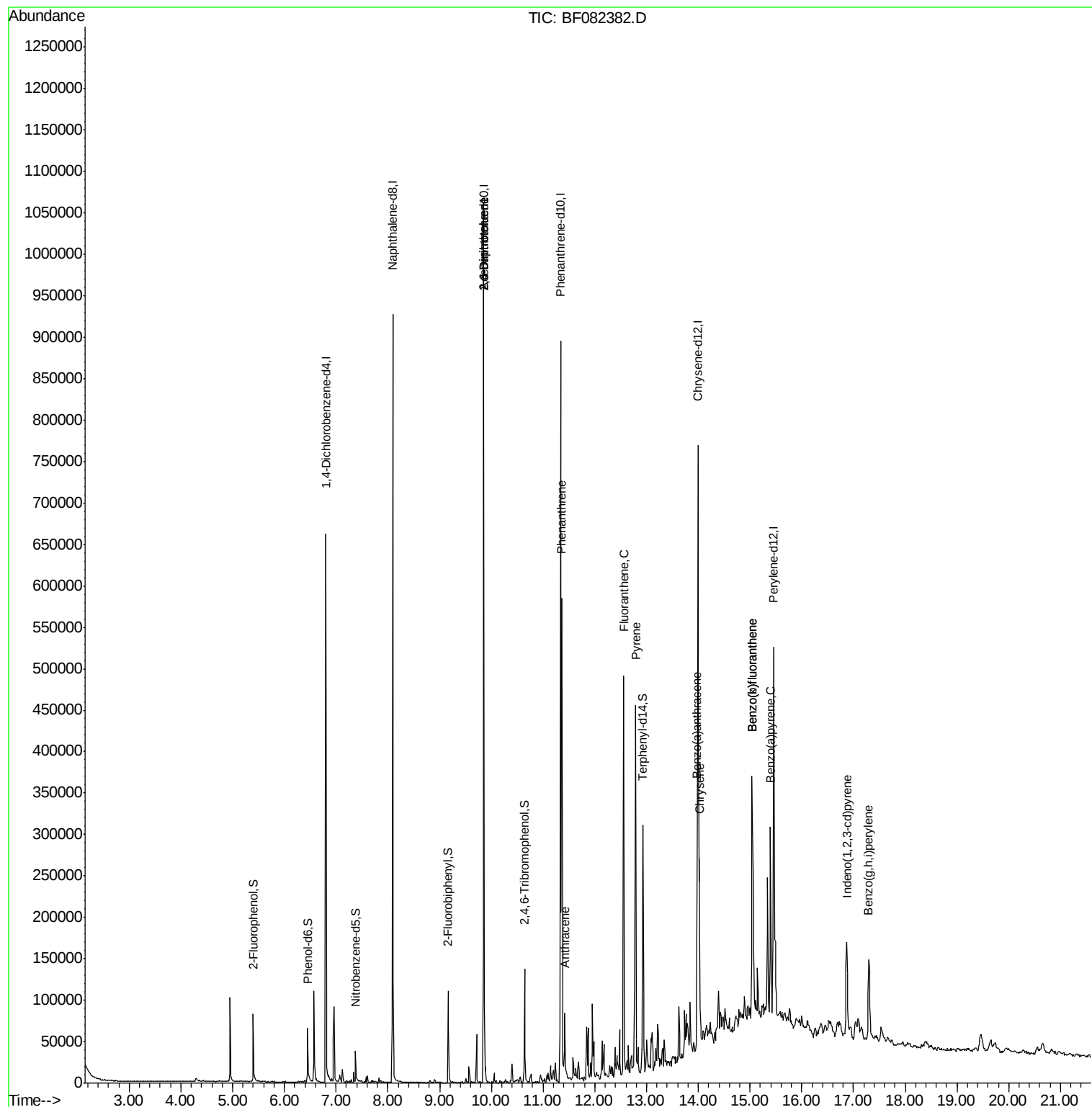
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	106796	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	411181	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	207329	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	347450	20.00	ng	-0.03
75) Chrysene-d12	13.99	240	249420	20.00	ng	-0.02
86) Perylene-d12	15.45	264	249597	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	31859	6.02	ng	-0.03
7) Phenol-d6	6.45	99	37272	5.41	ng	-0.03
23) Nitrobenzene-d5	7.37	82	21234	3.47	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	15528	7.99	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	52081	4.17	ng	-0.04
78) Terphenyl-d14	12.93	244	96126	10.21	ng	-0.03
Target Compounds						
50) 2,6-Dinitrotoluene	9.85	165	25872	8.40	ng	# 32
55) 4-Nitrophenol	10.06	139	2209	Below Cal		# 11
56) 2,4-Dinitrotoluene	9.85	165	25872	6.72	ng	# 23
70) Phenanthrene	11.36	178	226973	13.33	ng	98
71) Anthracene	11.42	178	46709	2.66	ng	98
74) Fluoranthene	12.56	202	311147	17.01	ng	96
77) Pyrene	12.79	202	259176	17.51	ng	98
80) Benzo(a)anthracene	13.98	228	127331	9.81	ng	95
82) Chrysene	14.02	228	113941	8.33	ng	97
85) Indeno(1,2,3-cd)pyrene	16.87	276	80590	7.41	ng	95
87) Benzo(b)fluoranthene	15.04	252	223745	14.73	ng	99
88) Benzo(k)fluoranthene	15.04	252	223745	17.53	ng	# 98
89) Benzo(a)pyrene	15.40	252	108371	8.30	ng	99
91) Benzo(g,h,i)perylene	17.29	276	79287	7.63	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 408

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

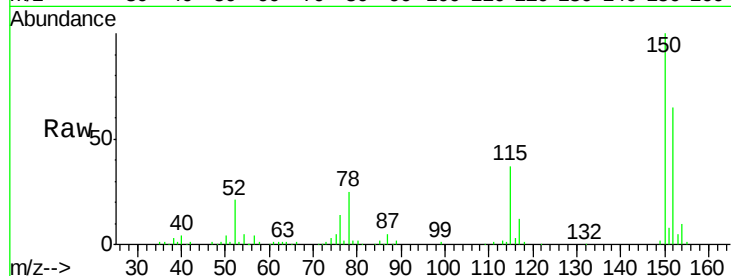
Tgt Ion:152 Resp: 106796

Ion Ratio Lower Upper

152 100

150 152.9 129.0 193.4

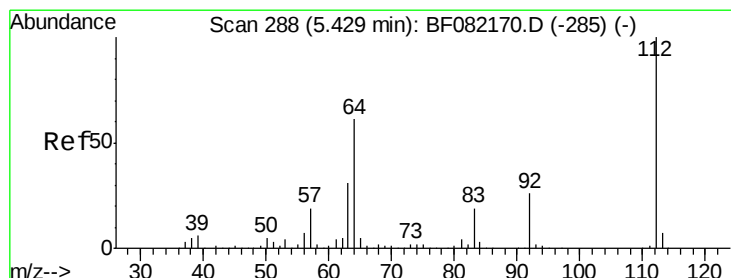
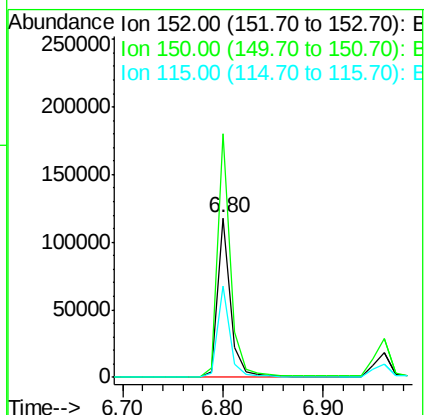
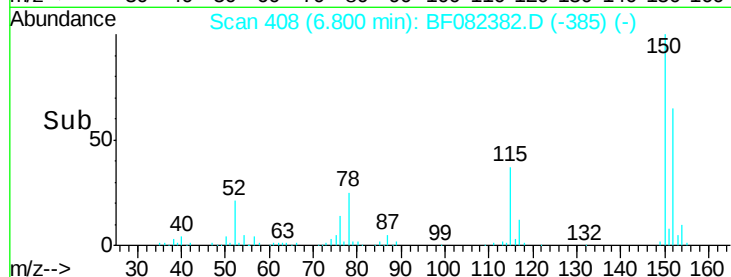
115 57.1 52.1 78.1



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: 6.02 ng

RT: 5.39 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

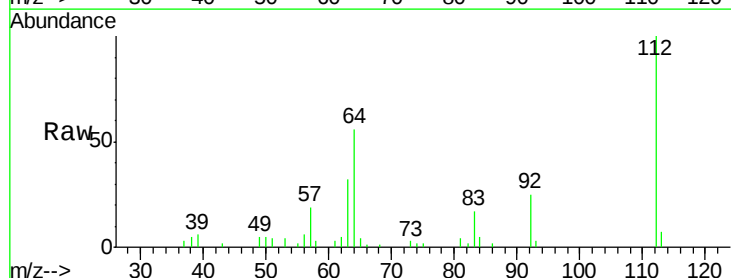
Tgt Ion:112 Resp: 31859

Ion Ratio Lower Upper

112 100

64 55.6 48.6 73.0

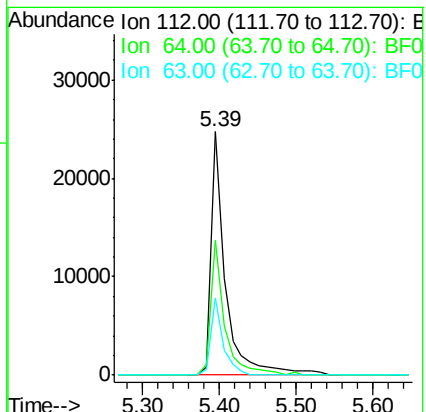
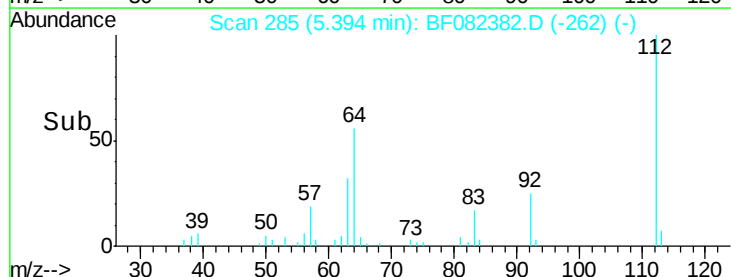
63 31.5 25.1 37.7



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: 5.41 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

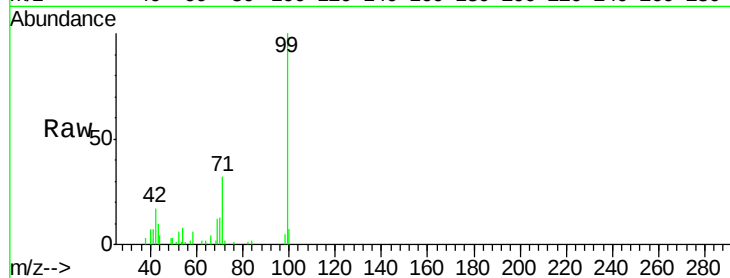
Tgt Ion: 99 Resp: 37272

Ion Ratio Lower Upper

99 100

42 17.1 13.2 19.8

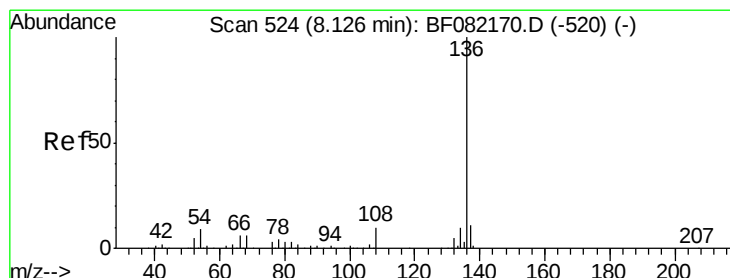
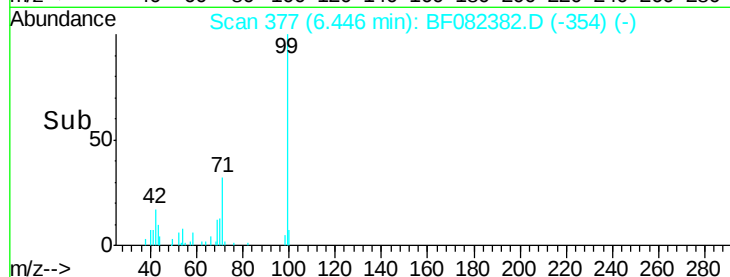
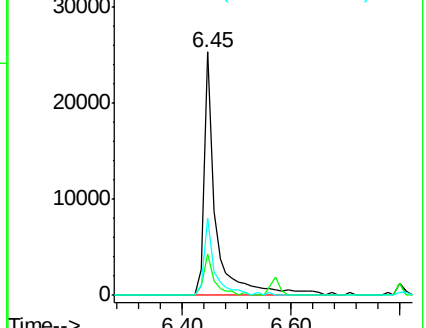
71 31.7 25.6 38.4



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: 8.09 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Tgt Ion: 136 Resp: 411181

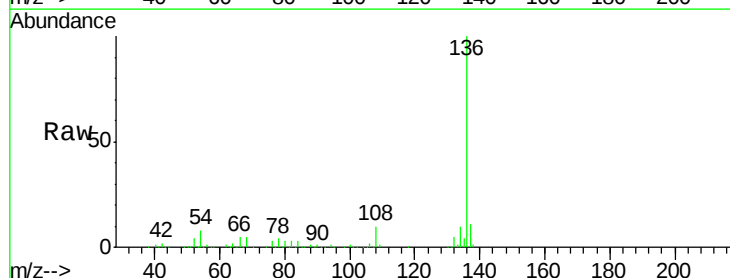
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 8.3 7.5 11.3

68 5.2 4.6 7.0

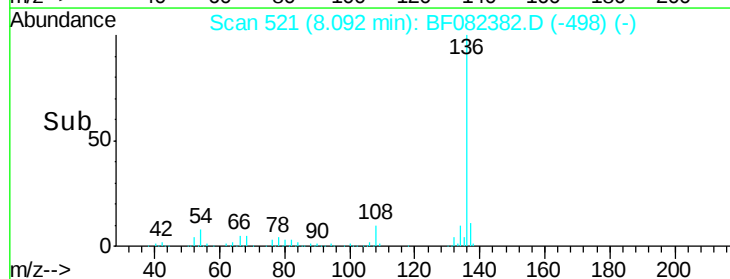
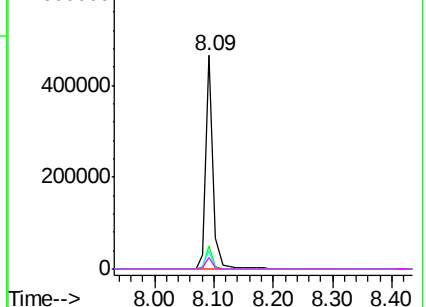


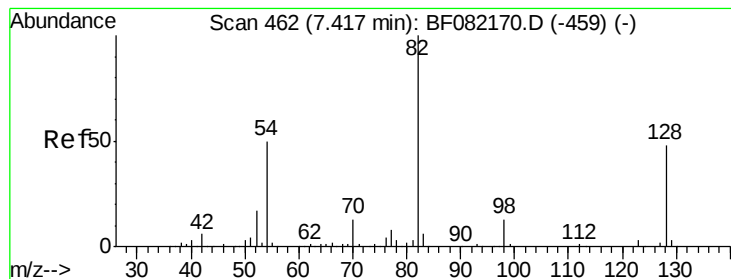
Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.47 ng

RT: 7.37 min Scan# 458

Delta R.T. -0.05 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

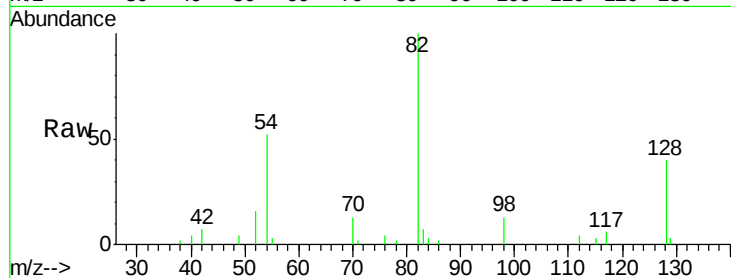
Tgt Ion: 82 Resp: 21234

Ion Ratio Lower Upper

82 100

128 39.8 38.7 58.1

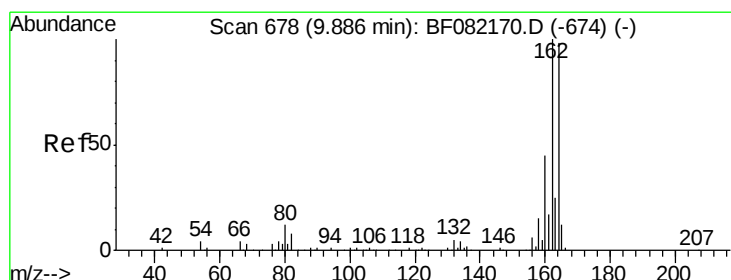
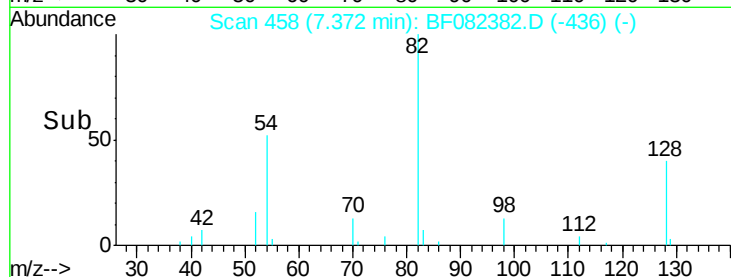
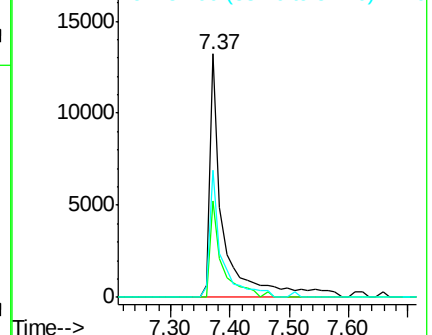
54 52.0 40.1 60.1



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

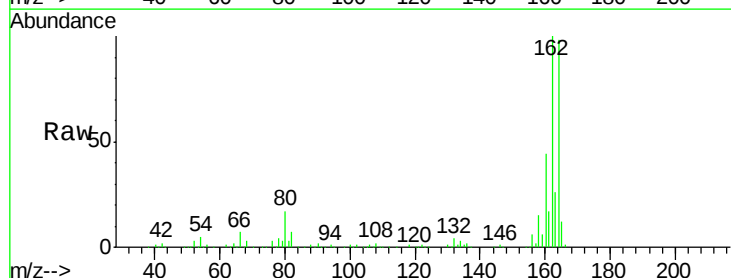
Tgt Ion: 164 Resp: 207329

Ion Ratio Lower Upper

164 100

162 102.0 81.6 122.4

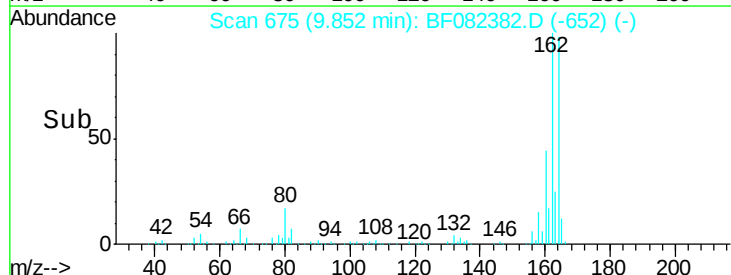
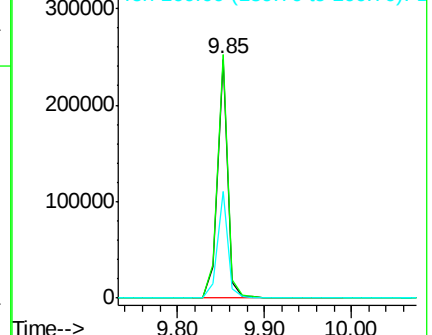
160 44.7 36.4 54.6

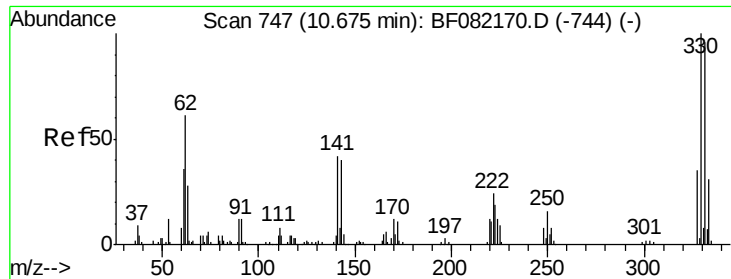


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

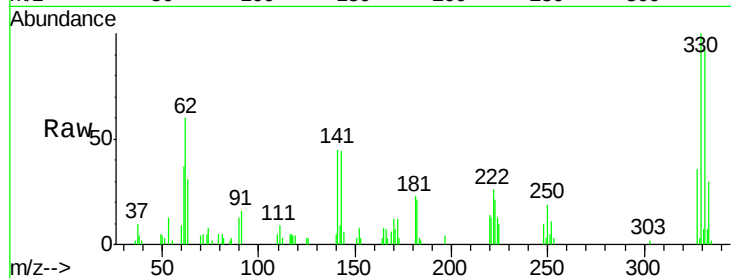




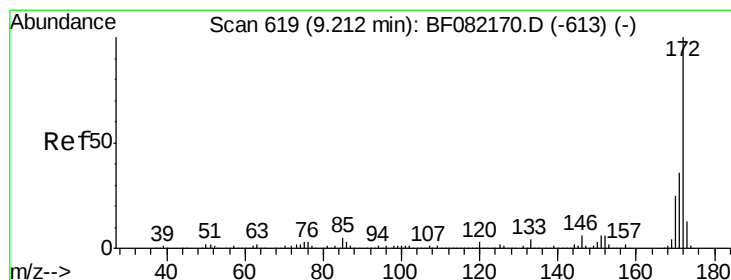
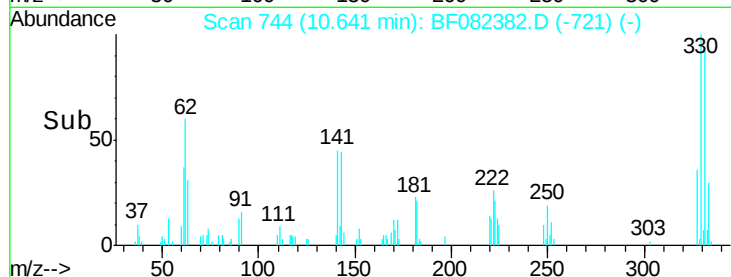
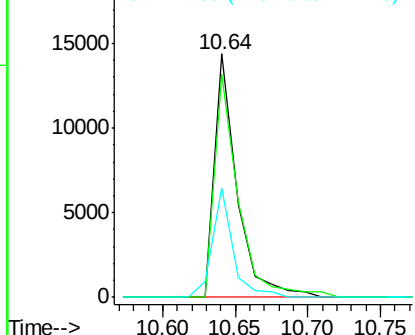
#41
 2,4,6-Tribromophenol
 Concen: 7.99 ng
 RT: 10.64 min Scan# 744
 Delta R.T. -0.03 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015RE

Tgt Ion:330 Resp: 15528
 Ion Ratio Lower Upper
 330 100
 332 96.5 77.1 115.7
 141 41.1 29.8 44.8

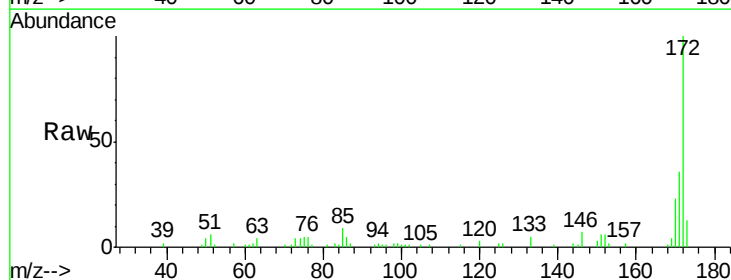


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

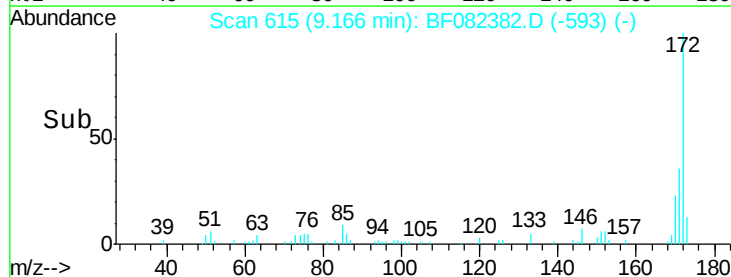
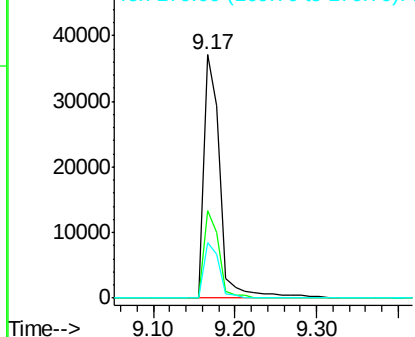


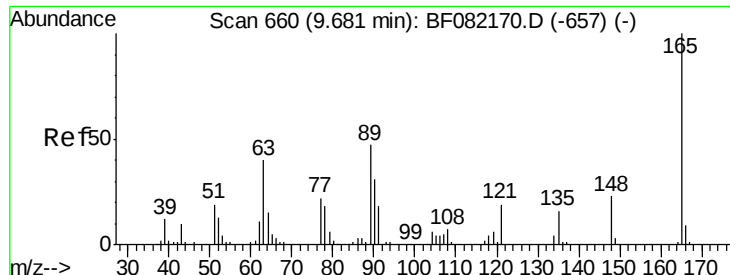
#44
 2-Fluorobiphenyl
 Concen: 4.17 ng
 RT: 9.17 min Scan# 615
 Delta R.T. -0.04 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

Tgt Ion:172 Resp: 52081
 Ion Ratio Lower Upper
 172 100
 171 35.7 28.6 42.8
 170 22.8 19.7 29.5



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

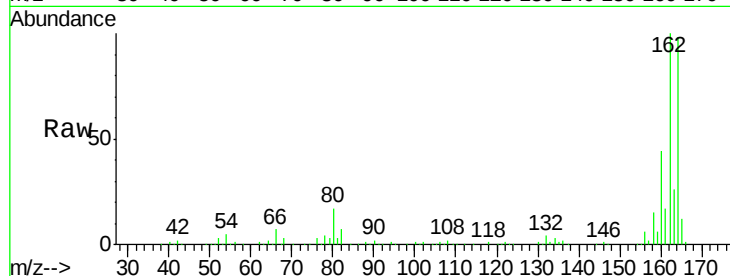




#50
 2,6-Dinitrotoluene
 Concen: 8.40 ng
 RT: 9.85 min Scan# 675
 Delta R.T. 0.17 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015RE

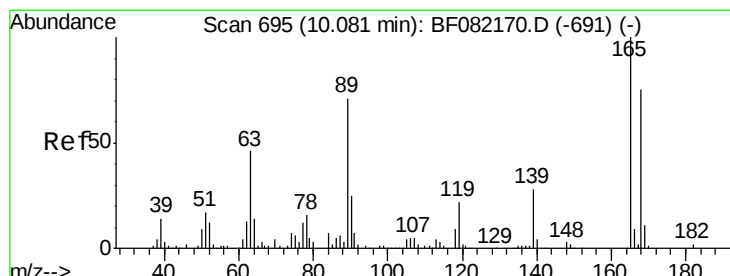
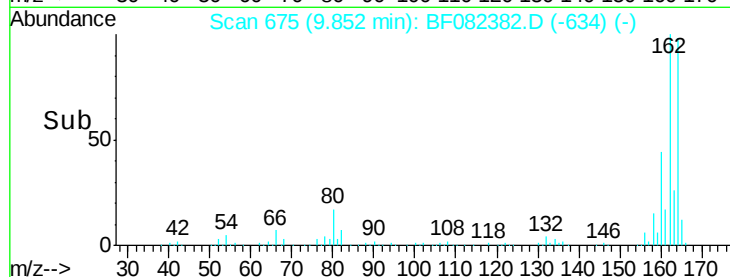
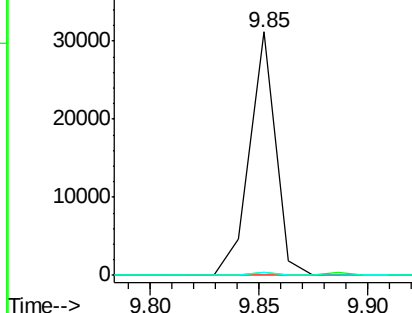
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	36.7	55.1#
89	1.4	37.8	56.6#



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



#56
 2,4-Dinitrotoluene
 Concen: 6.72 ng
 RT: 9.85 min Scan# 675
 Delta R.T. -0.23 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

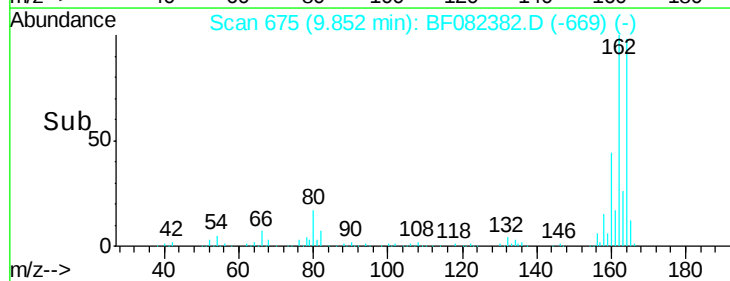
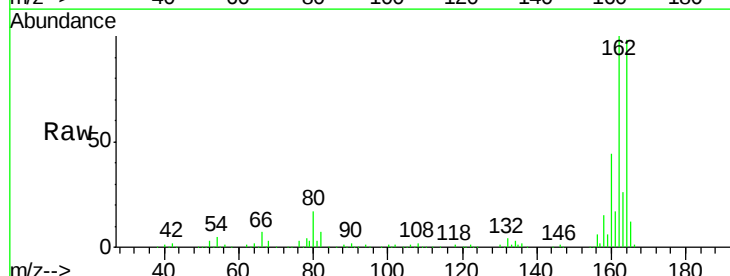
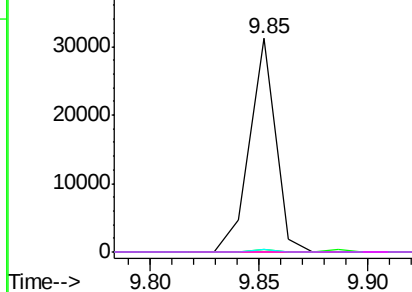
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	38.6	58.0#
89	1.4	57.0	85.6#
182	0.0	1.8	2.6#

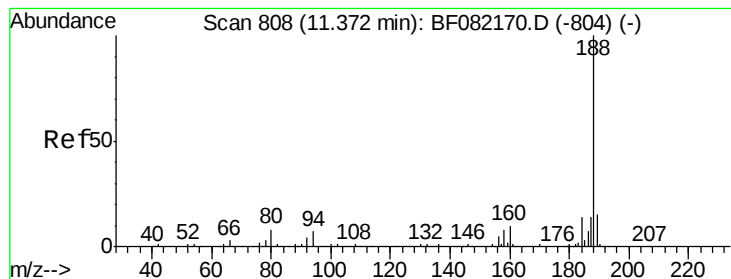
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.34 min Scan# 805

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

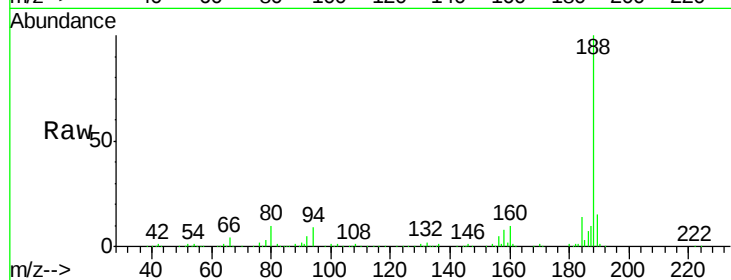
Tgt Ion:188 Resp: 347450

Ion Ratio Lower Upper

188 100

94 9.2 5.8 8.6#

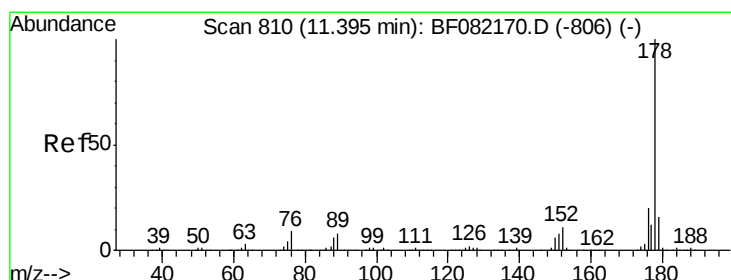
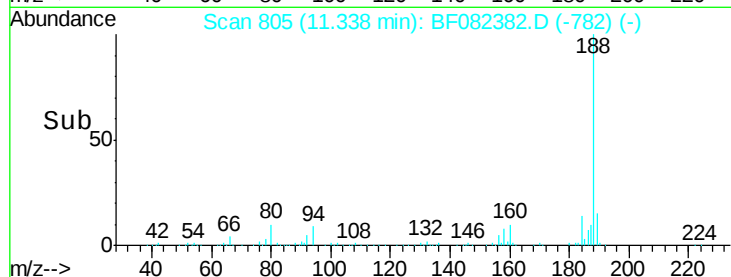
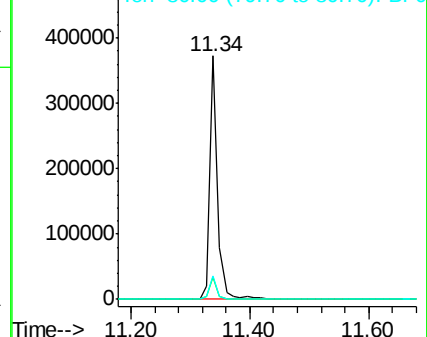
80 9.6 6.4 9.6#



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: 13.33 ng

RT: 11.36 min Scan# 807

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

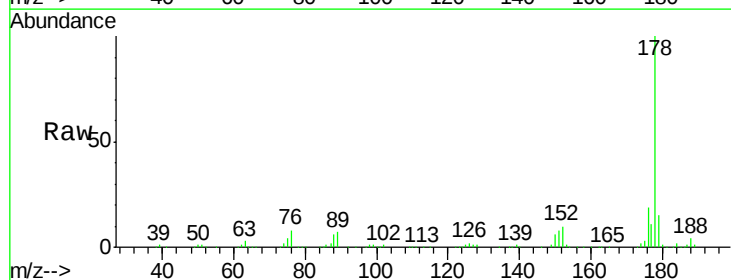
Tgt Ion:178 Resp: 226973

Ion Ratio Lower Upper

178 100

176 18.9 16.0 24.0

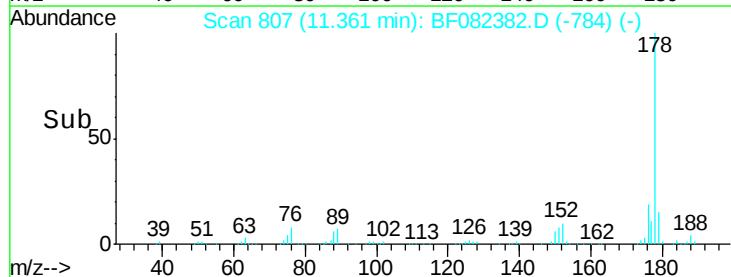
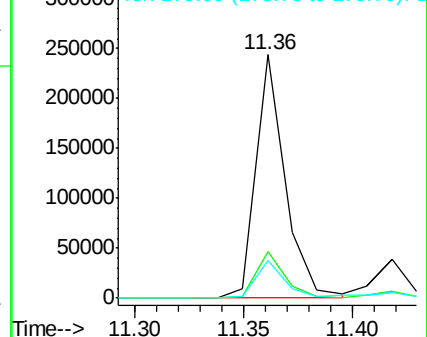
179 15.3 12.6 19.0

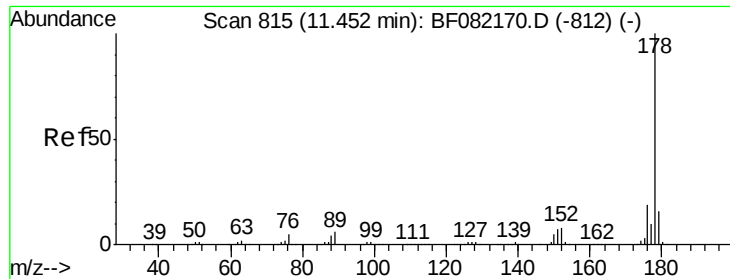


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

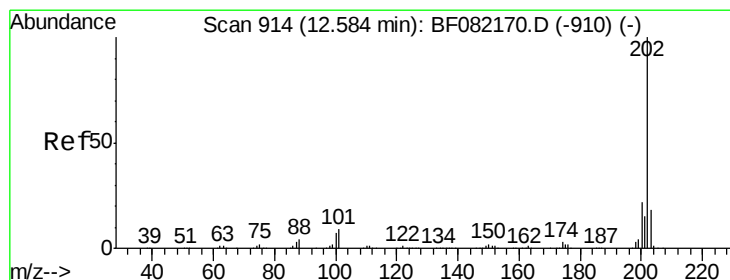
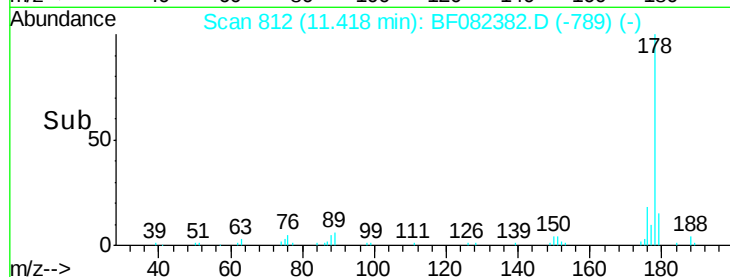
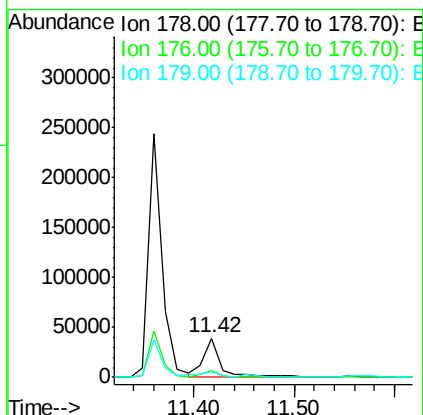
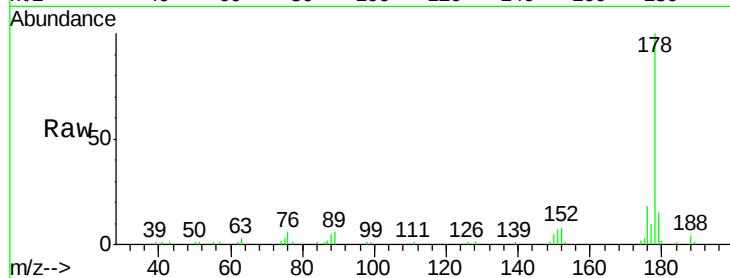




#71
 Anthracene
 Concen: 2.66 ng
 RT: 11.42 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

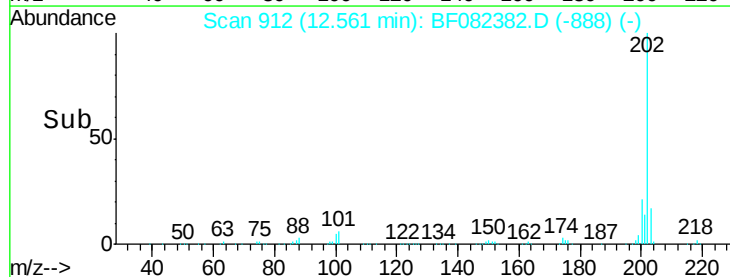
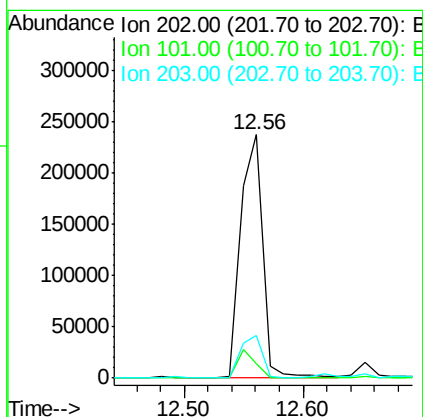
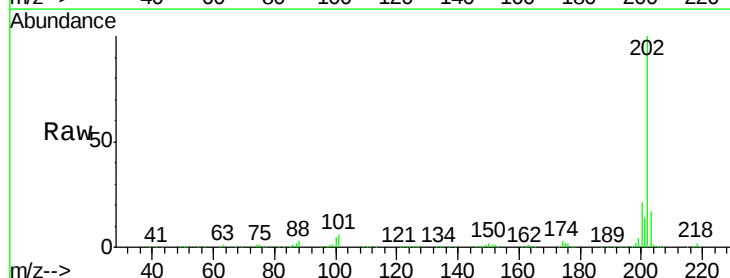
Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015RE

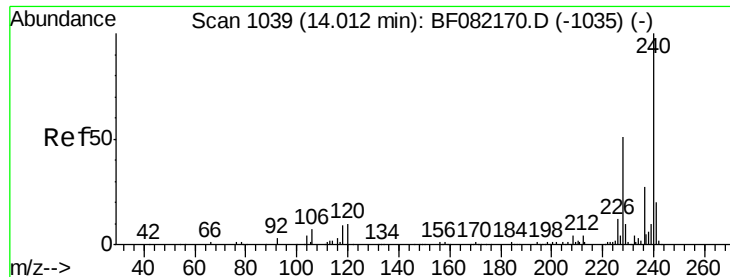
Tgt Ion:178 Resp: 46709
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.4 23.0
 179 14.9 12.5 18.7



#74
 Fluoranthene
 Concen: 17.01 ng
 RT: 12.56 min Scan# 912
 Delta R.T. -0.02 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

Tgt Ion:202 Resp: 311147
 Ion Ratio Lower Upper
 202 100
 101 6.2 0.0 29.3
 203 17.3 0.0 37.8

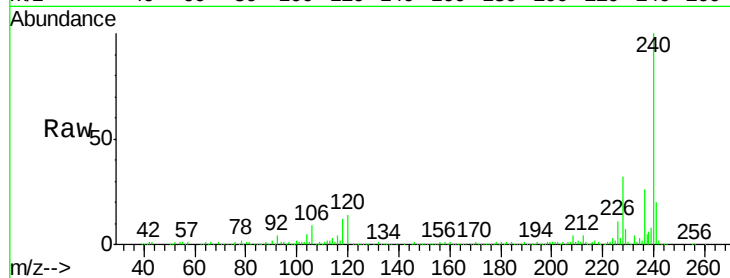




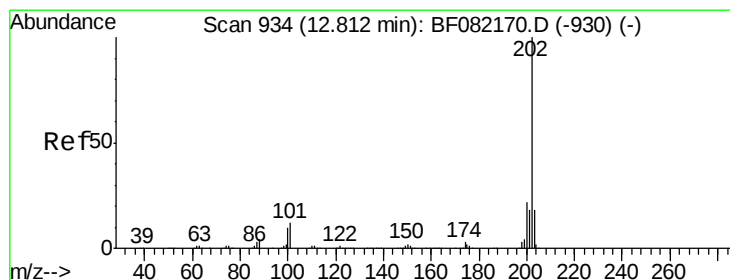
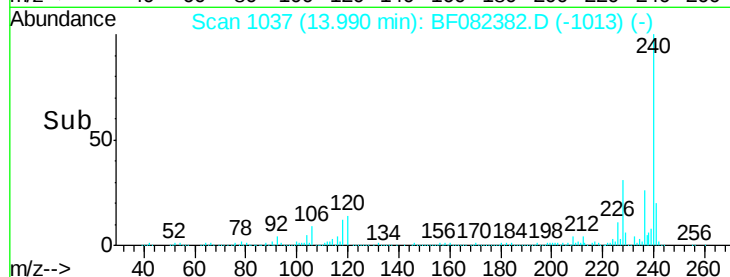
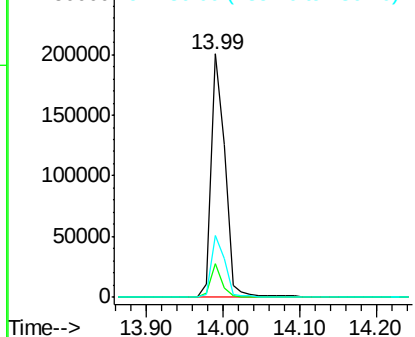
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.99 min Scan# 1037
Delta R.T. -0.02 min
Lab File: BF082382.D
Acq: 20 Oct 2015 5:02

Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015RE

Tgt Ion:240 Resp: 249420
Ion Ratio Lower Upper
240 100
120 13.6 8.1 12.1#
236 25.6 21.3 31.9

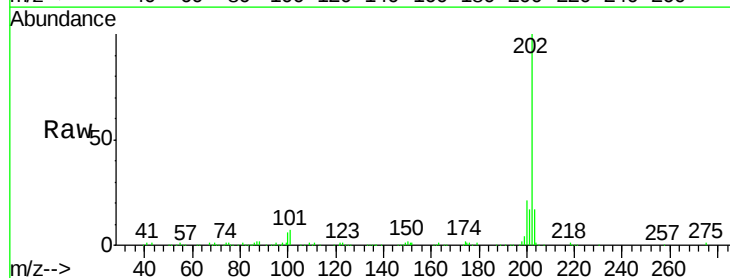


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

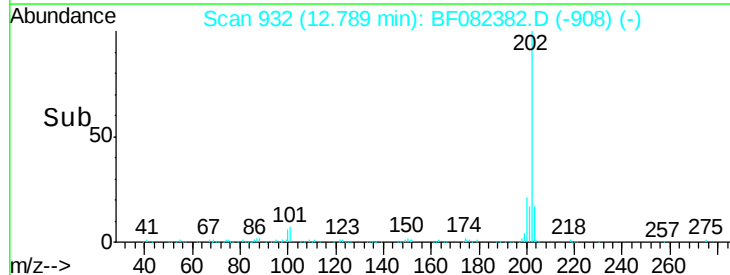
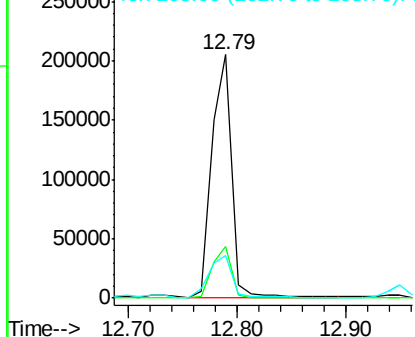


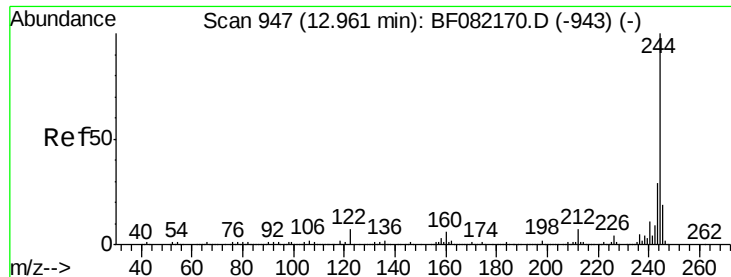
#77
Pyrene
Concen: 17.51 ng
RT: 12.79 min Scan# 932
Delta R.T. -0.02 min
Lab File: BF082382.D
Acq: 20 Oct 2015 5:02

Tgt Ion:202 Resp: 259176
Ion Ratio Lower Upper
202 100
200 21.0 17.9 26.9
203 17.3 14.5 21.7



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: 10.21 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

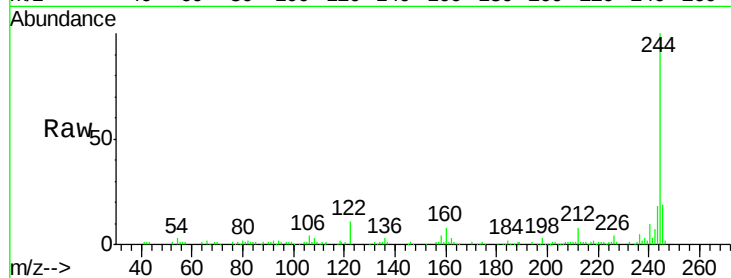
Tgt Ion:244 Resp: 96126

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.6

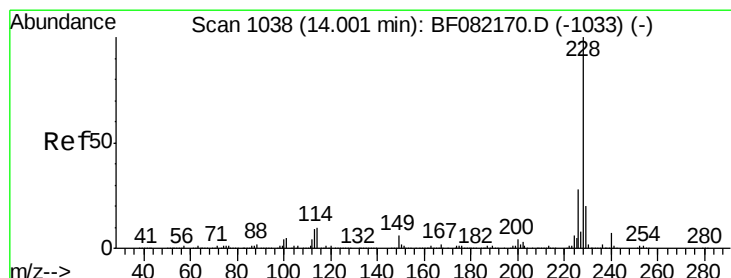
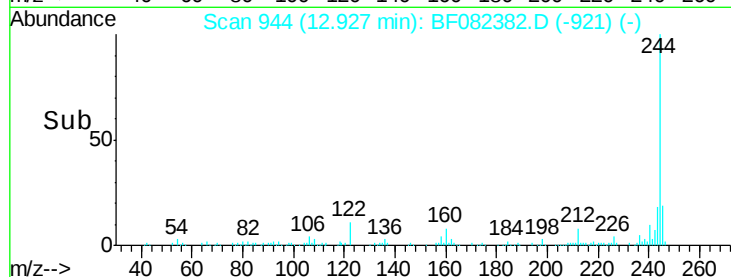
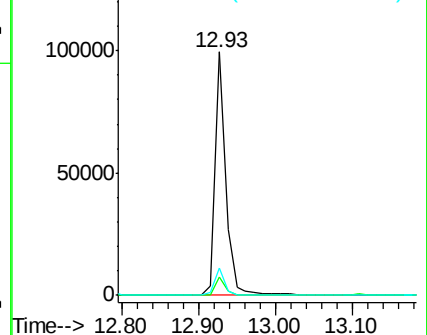
122 11.3 5.9 8.9#



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: 9.81 ng

RT: 13.98 min Scan# 1036

Delta R.T. -0.02 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

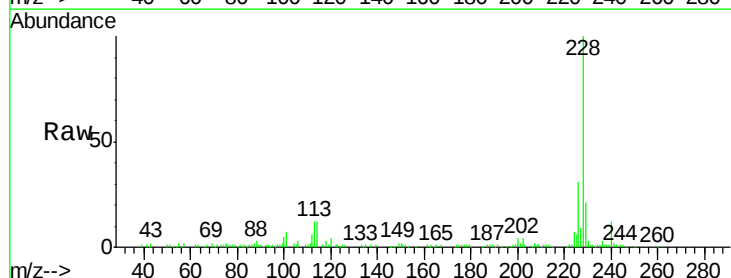
Tgt Ion:228 Resp: 127331

Ion Ratio Lower Upper

228 100

226 31.4 22.3 33.5

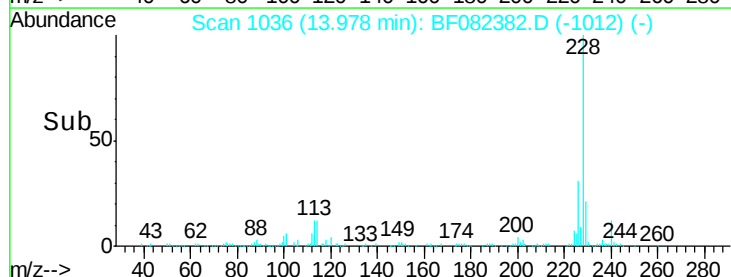
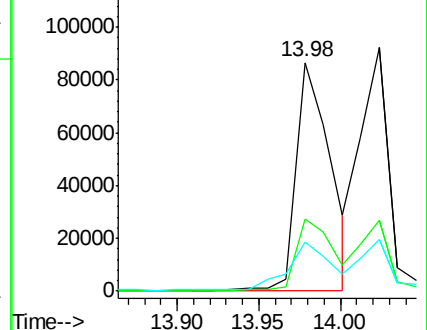
229 21.3 16.2 24.2

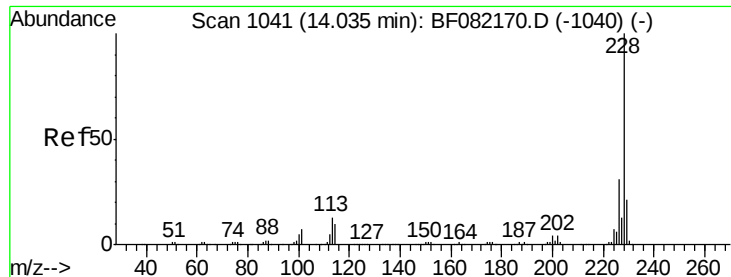


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 8.33 ng

RT: 14.02 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

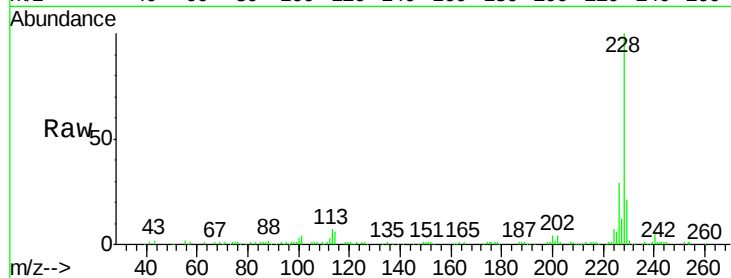
Tgt Ion:228 Resp: 113941

Ion Ratio Lower Upper

228 100

226 29.0 24.4 36.6

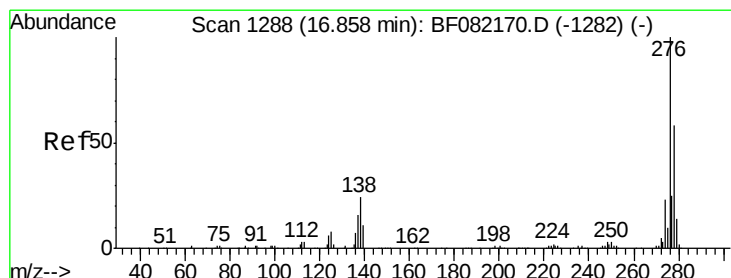
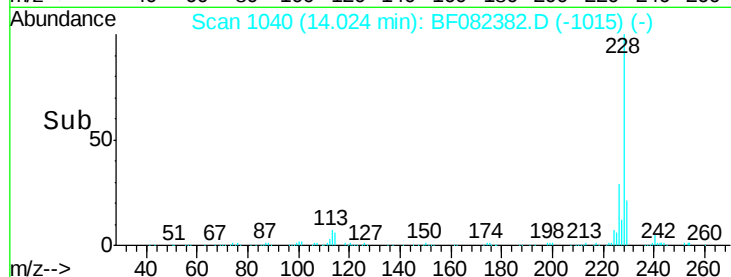
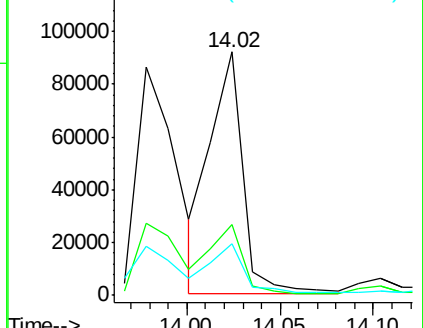
229 21.4 16.3 24.5



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: 7.41 ng

RT: 16.87 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

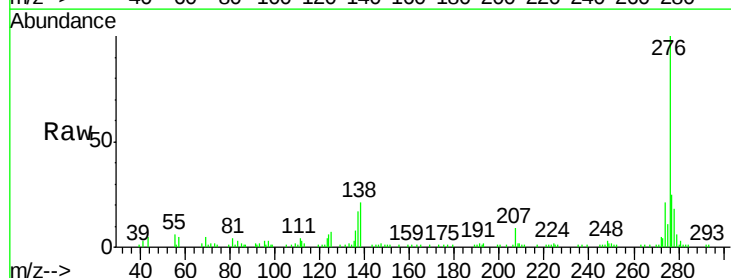
Tgt Ion:276 Resp: 80590

Ion Ratio Lower Upper

276 100

138 21.2 19.7 29.5

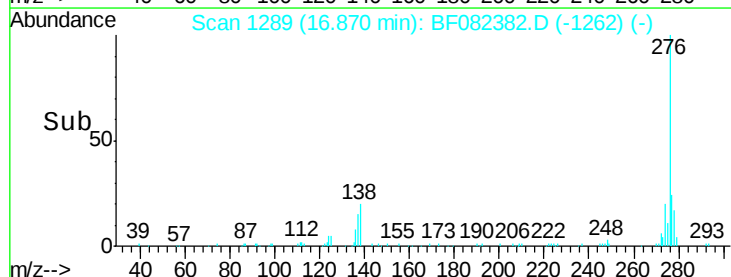
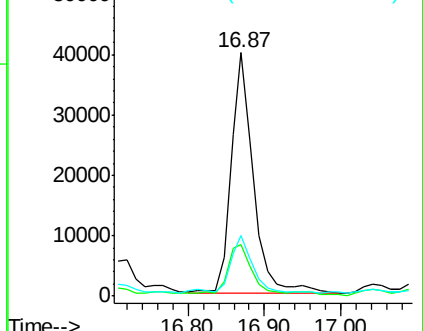
277 23.5 20.1 30.1

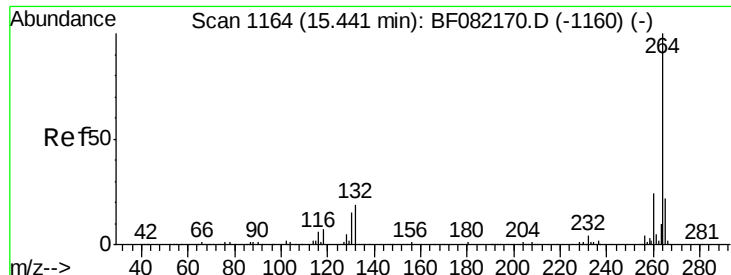


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.45 min Scan# 1165

Delta R.T. 0.01 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015RE

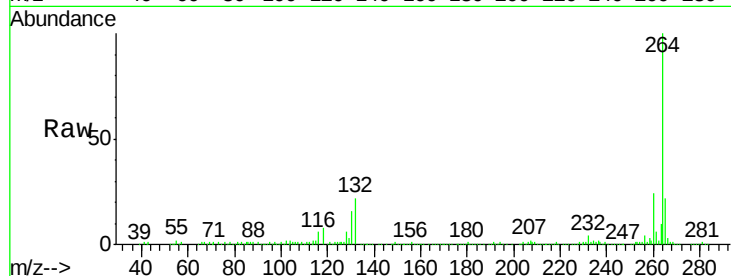
Tgt Ion:264 Resp: 249597

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.6

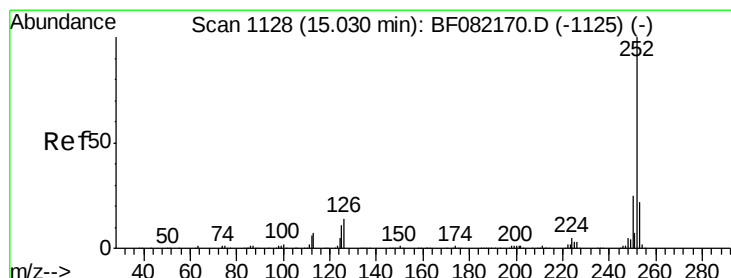
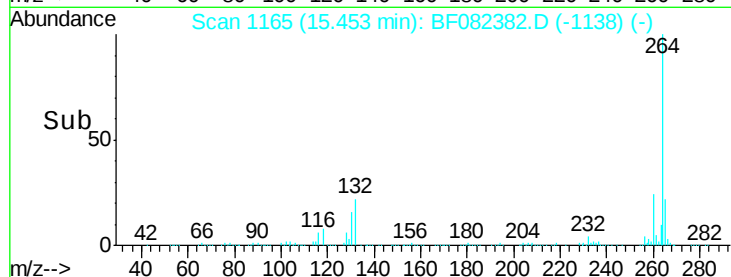
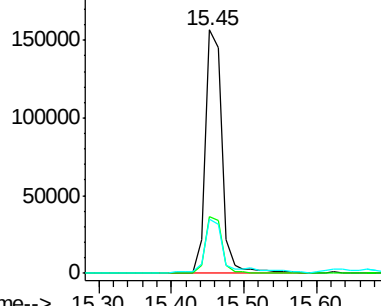
265 22.0 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 14.73 ng

RT: 15.04 min Scan# 1129

Delta R.T. 0.01 min

Lab File: BF082382.D

Acq: 20 Oct 2015 5:02

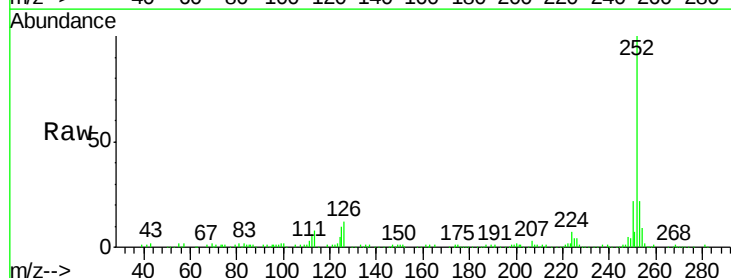
Tgt Ion:252 Resp: 223745

Ion Ratio Lower Upper

252 100

253 21.8 18.0 27.0

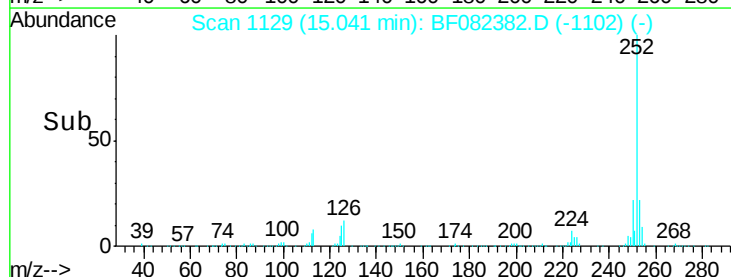
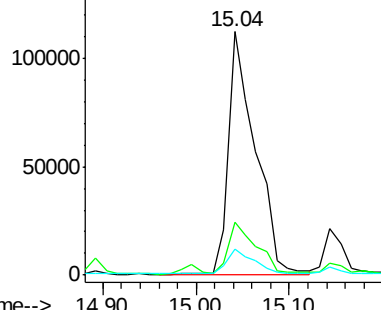
125 10.5 8.6 12.8

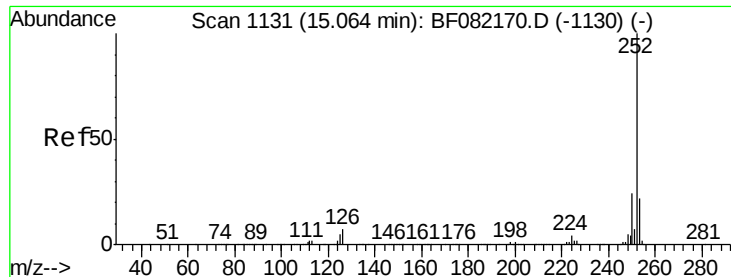


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

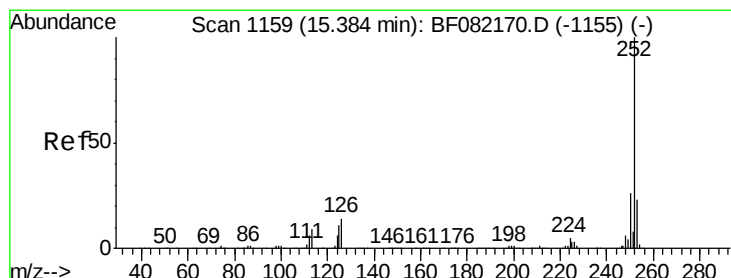
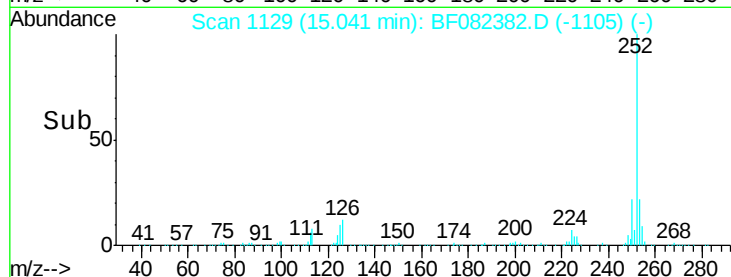
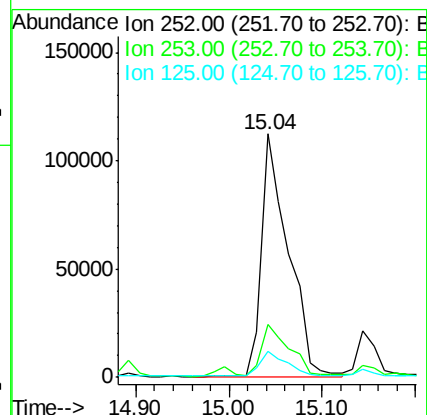
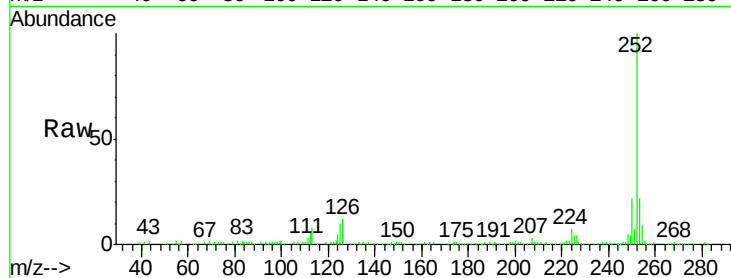




#88
Benzo(k)fluoranthene
Concen: 17.53 ng
RT: 15.04 min Scan# 1129
Delta R.T. -0.02 min
Lab File: BF082382.D
Acq: 20 Oct 2015 5:02

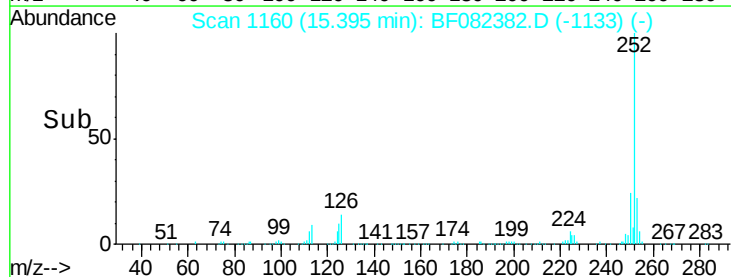
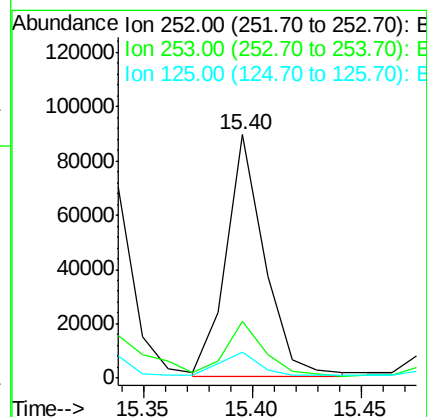
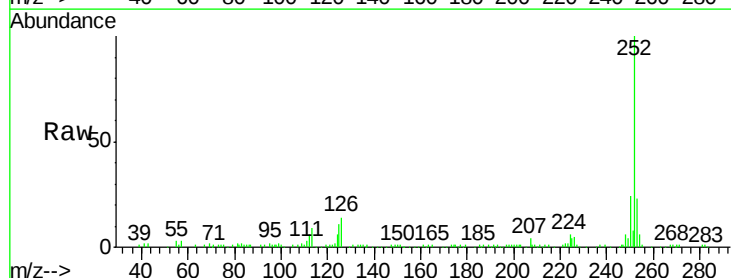
Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015RE

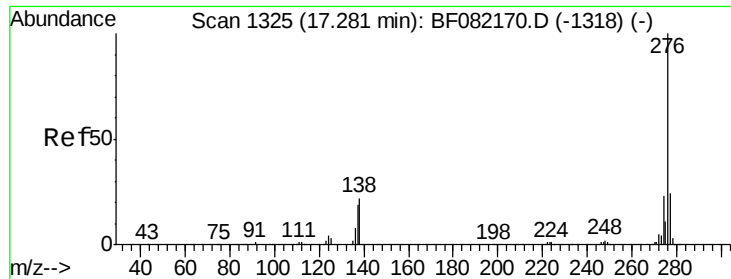
Tgt Ion:252 Resp: 223745
Ion Ratio Lower Upper
252 100
253 21.8 17.8 26.6
125 10.5 6.7 10.1#



#89
Benzo(a)pyrene
Concen: 8.30 ng
RT: 15.40 min Scan# 1160
Delta R.T. 0.01 min
Lab File: BF082382.D
Acq: 20 Oct 2015 5:02

Tgt Ion:252 Resp: 108371
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 10.7 8.9 13.3

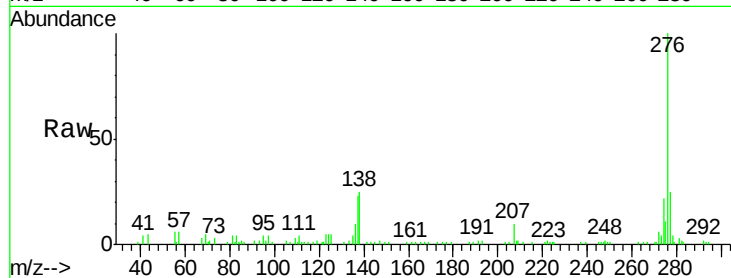




#91
 Benzo(g,h,i)perylene
 Concen: 7.63 ng
 RT: 17.29 min Scan# 1326
 Delta R.T. 0.01 min
 Lab File: BF082382.D
 Acq: 20 Oct 2015 5:02

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015RE

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	18.8	28.2
138	24.6	17.4	26.2



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

