

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101915\
 Data File : BF082386.D
 Acq On : 20 Oct 2015 6:56
 Operator : UM/IZ
 Sample : G4046-01DL 50X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK902DL

Quant Time: Oct 20 07:47:55 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	93624	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	383235	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	190593	20.00	ng	-0.03
63) Phenanthrene-d10	11.35	188	328926	20.00	ng	-0.02
75) Chrysene-d12	14.01	240	250015	20.00	ng	0.00
86) Perylene-d12	15.52	264	231804	20.00	ng	0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	6108	1.32	ng	-0.02
7) Phenol-d6	6.45	99	9502	1.57	ng	-0.03
23) Nitrobenzene-d5	7.37	82	4488	0.79	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	2553	1.43	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	18878	1.64	ng	-0.05
78) Terphenyl-d14	12.93	244	18814	1.99	ng	-0.03

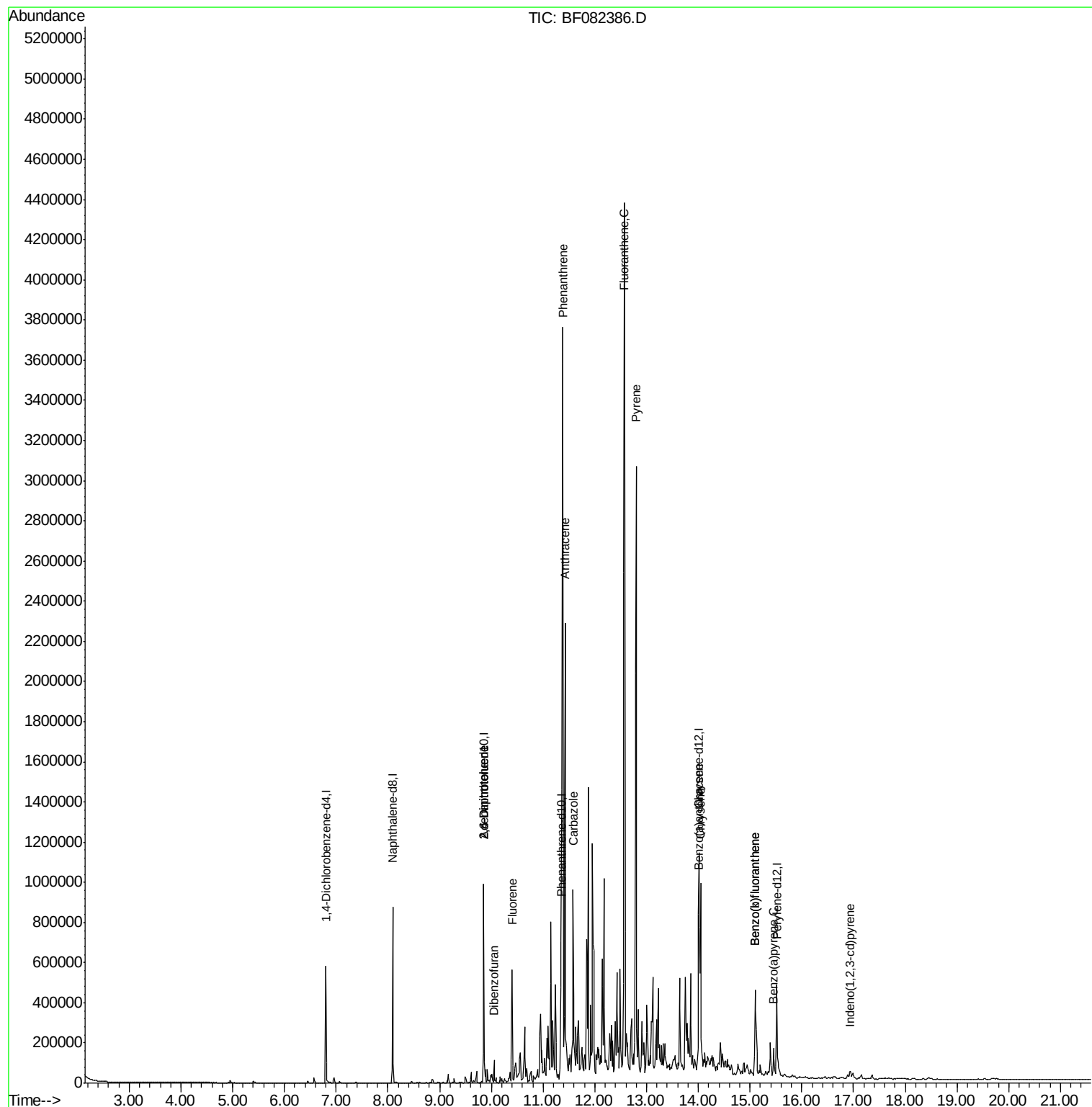
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	9.85	165	23984	8.47	ng	# 33
54) Dibenzofuran	10.06	168	47793	3.25	ng	93
55) 4-Nitrophenol	9.99	139	989	Below Cal		# 36
56) 2,4-Dinitrotoluene	9.85	165	23984	6.78	ng	# 24
57) Fluorene	10.40	166	162545	13.47	ng	99
70) Phenanthrene	11.38	178	2555297	158.49	ng	98
71) Anthracene	11.43	178	1175473	70.75	ng	99
72) Carbazole	11.58	167	413985	27.32	ng	99
74) Fluoranthene	12.57	202	2293938	132.47	ng	95
77) Pyrene	12.80	202	1563483	105.38	ng	99
80) Benzo(a)anthracene	14.00	228	436901	33.59	ng	98
82) Chrysene	14.05	228	395560	28.86	ng	99
85) Indeno(1,2,3-cd)pyrene	16.94	276	28570	2.62	ng	96
87) Benzo(b)fluoranthene	15.10	252	309200	21.92	ng	99
88) Benzo(k)fluoranthene	15.10	252	309200	26.08	ng	# 98
89) Benzo(a)pyrene	15.45	252	74012	6.11	ng	98

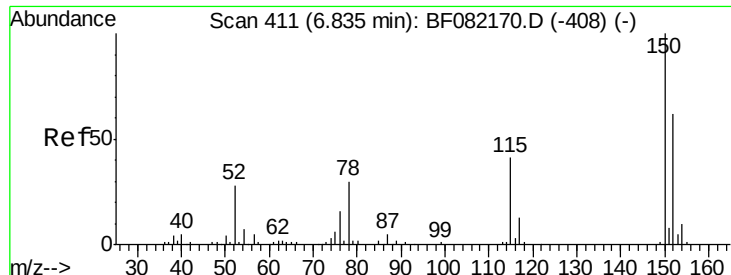
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

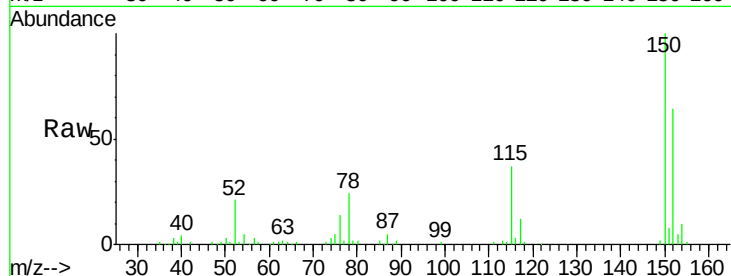
Tgt Ion:152 Resp: 93624

Ion Ratio Lower Upper

152 100

150 157.3 129.0 193.4

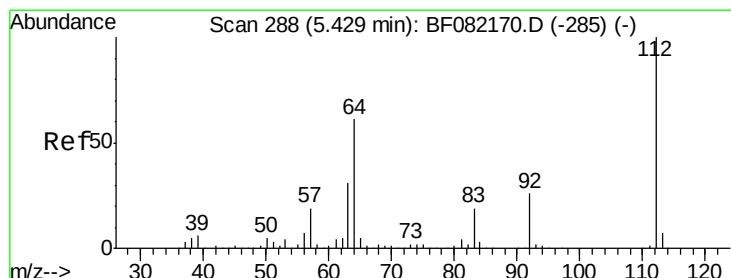
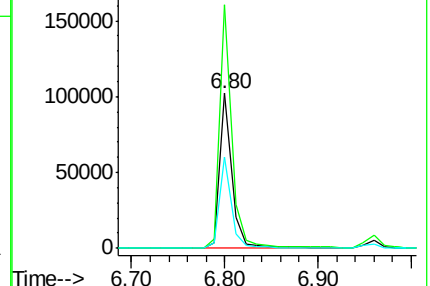
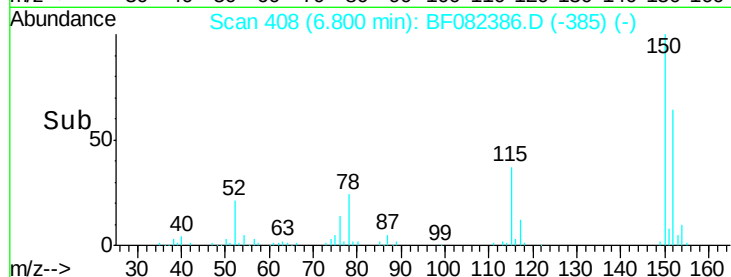
115 58.7 52.1 78.1



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: 1.32 ng

RT: 5.41 min Scan# 286

Delta R.T. -0.02 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

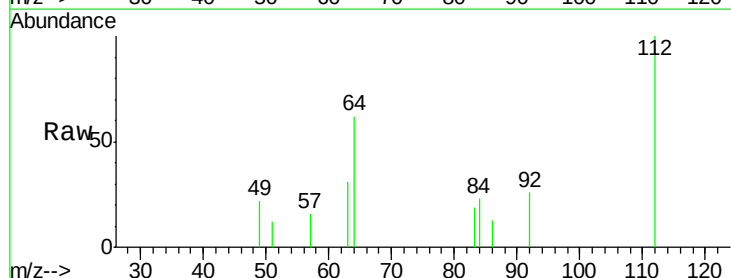
Tgt Ion:112 Resp: 6108

Ion Ratio Lower Upper

112 100

64 62.5 48.6 73.0

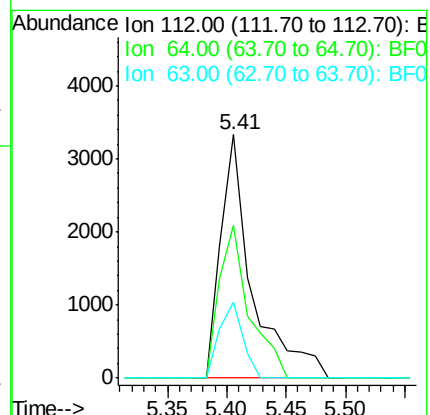
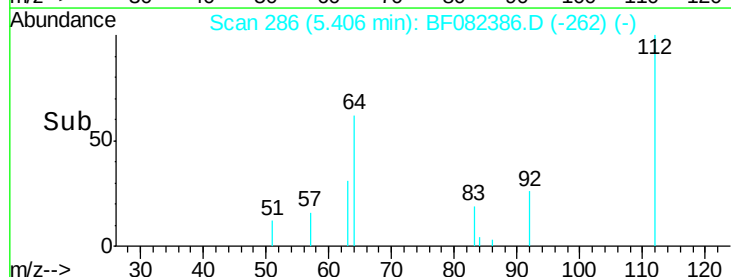
63 31.1 25.1 37.7

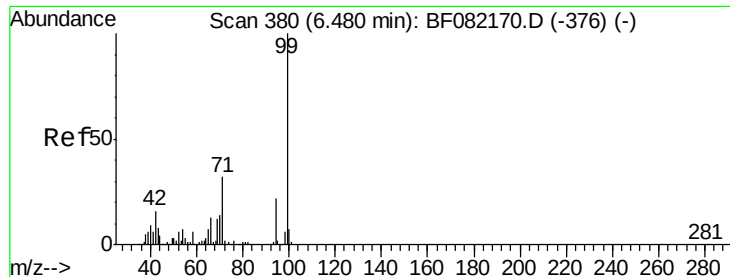


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.57 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

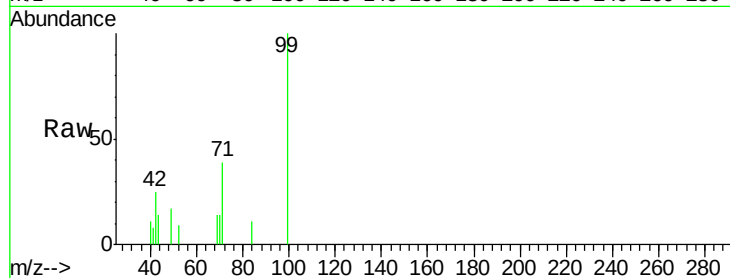
Tgt Ion: 99 Resp: 9502

Ion Ratio Lower Upper

99 100

42 24.8 13.2 19.8#

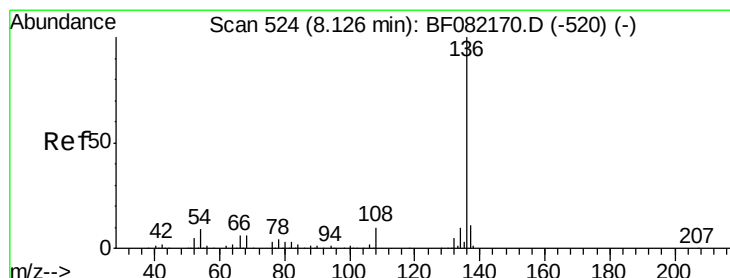
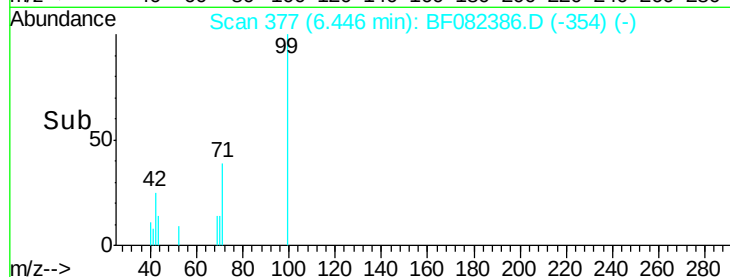
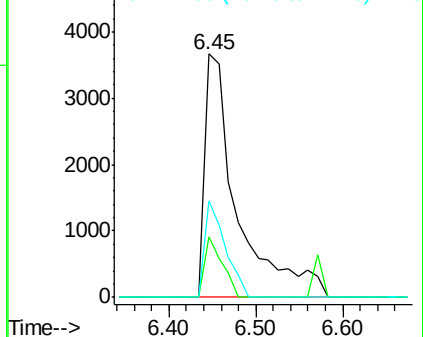
71 39.4 25.6 38.4#



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: BF082386.D

Acq: 20 Oct 2015 6:56

Tgt Ion: 136 Resp: 383235

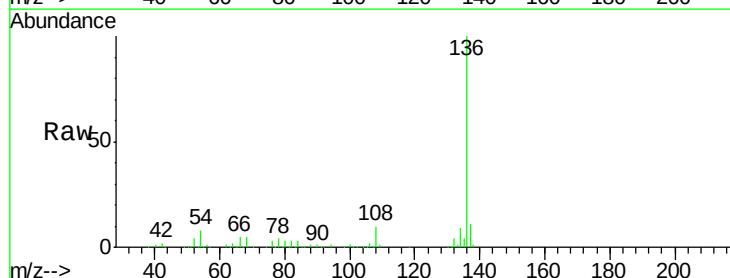
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 8.0 7.5 11.3

68 5.4 4.6 7.0

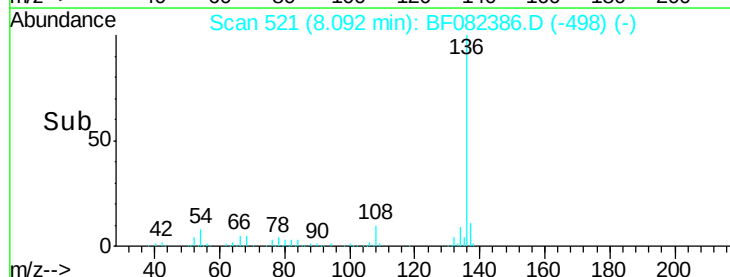
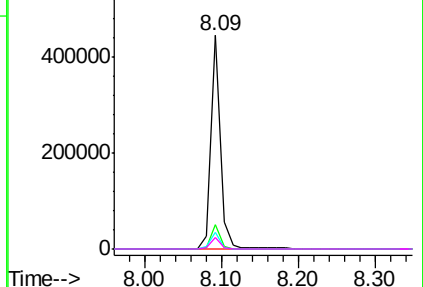


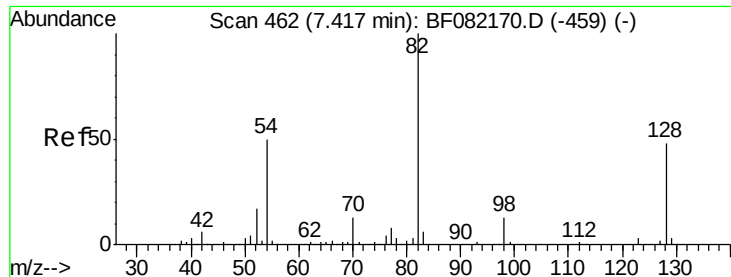
Abundance Ion 136.00 (135.70 to 136.70): E

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

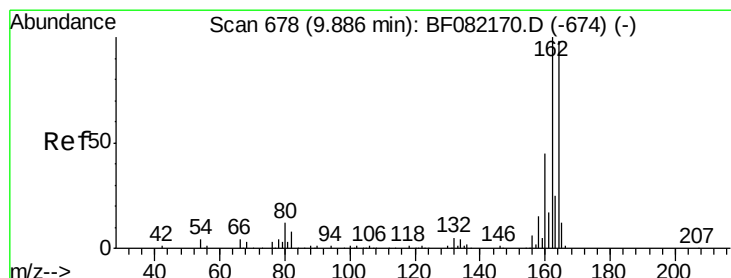
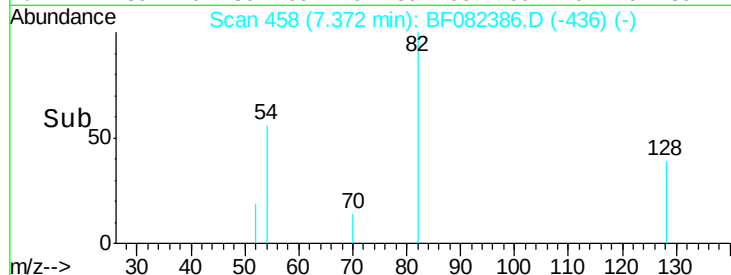
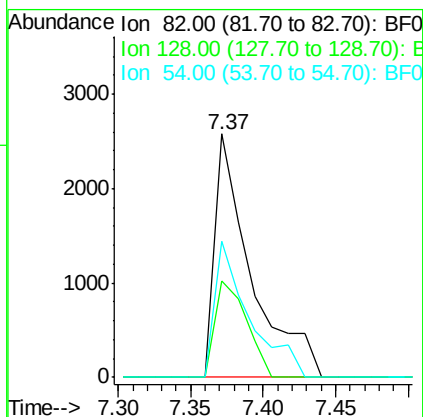
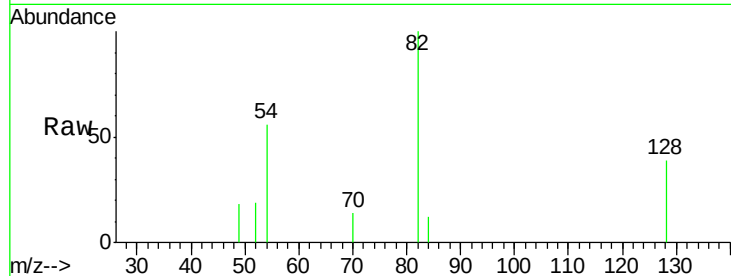




#23
 Nitrobenzene-d5
 Concen: 0.79 ng
 RT: 7.37 min Scan# 458
 Delta R.T. -0.05 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

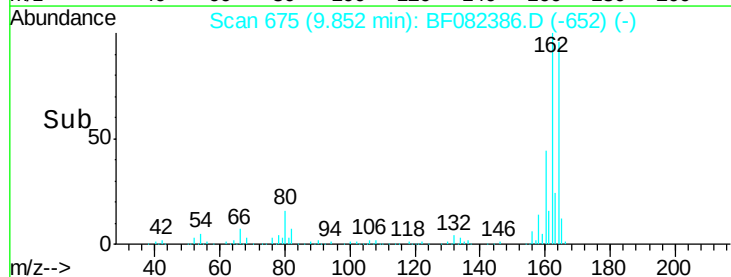
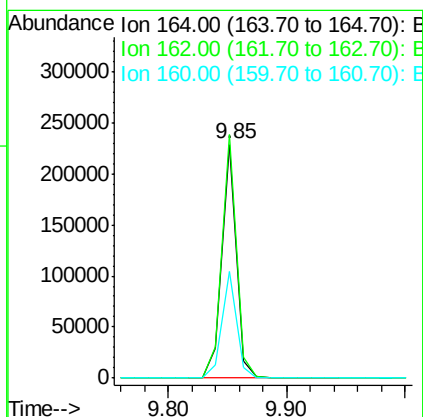
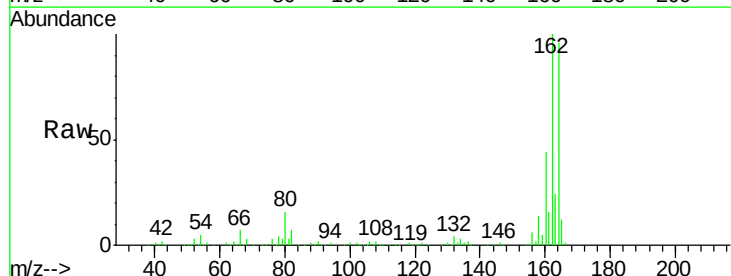
Instrument :
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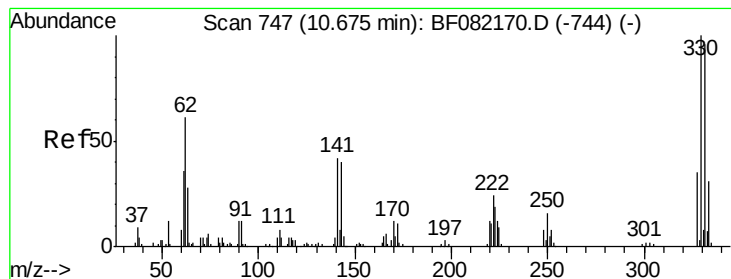
Tgt Ion: 82 Resp: 4488
 Ion Ratio Lower Upper
 82 100
 128 39.5 38.7 58.1
 54 56.0 40.1 60.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 675
 Delta R.T. -0.03 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Tgt Ion: 164 Resp: 190593
 Ion Ratio Lower Upper
 164 100
 162 104.3 81.6 122.4
 160 45.6 36.4 54.6

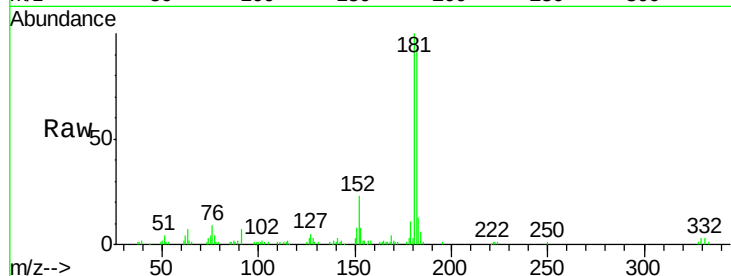




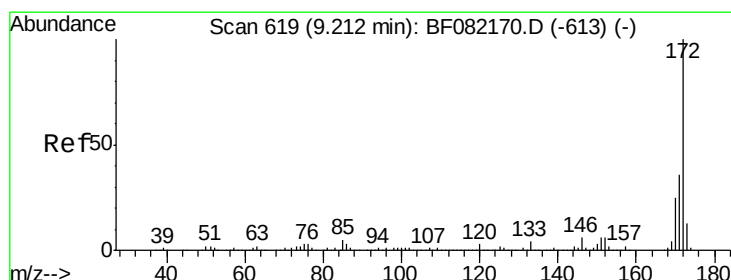
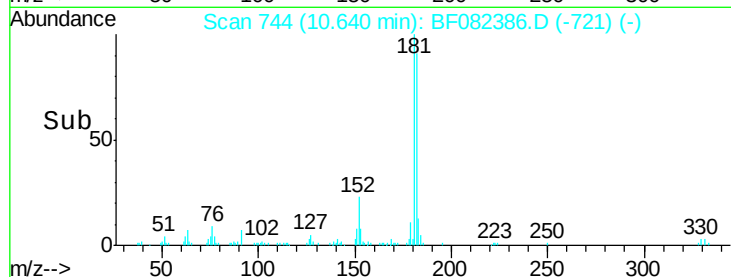
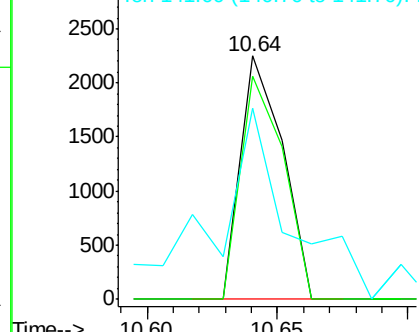
#41
 2,4,6-Tribromophenol
 Concen: 1.43 ng
 RT: 10.64 min Scan# 744
 Delta R.T. -0.03 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK902DL

Tgt Ion: 330 Resp: 2553
 Ion Ratio Lower Upper
 330 100
 332 93.2 77.1 115.7
 141 150.8 29.8 44.8#

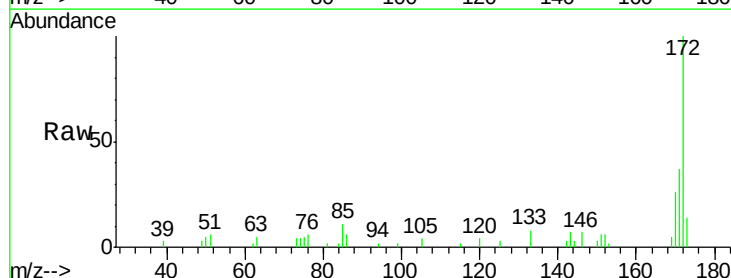


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

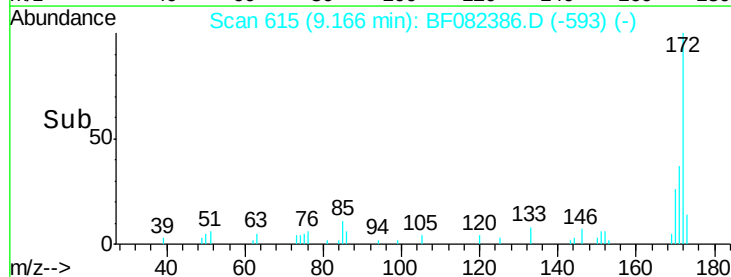
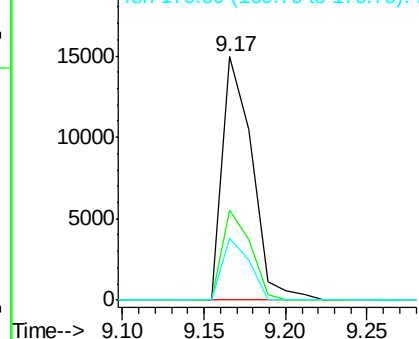


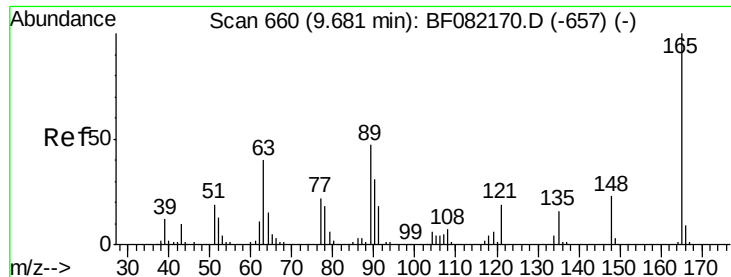
#44
 2-Fluorobiphenyl
 Concen: 1.64 ng
 RT: 9.17 min Scan# 615
 Delta R.T. -0.05 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Tgt Ion: 172 Resp: 18878
 Ion Ratio Lower Upper
 172 100
 171 36.7 28.6 42.8
 170 25.6 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

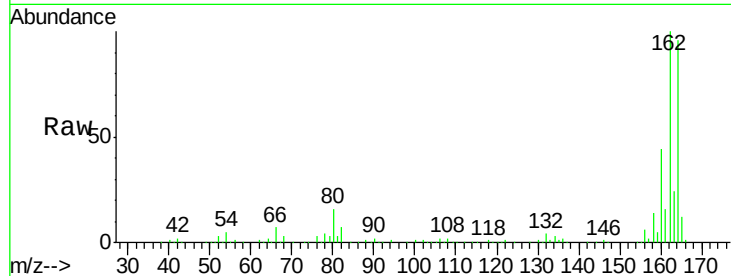




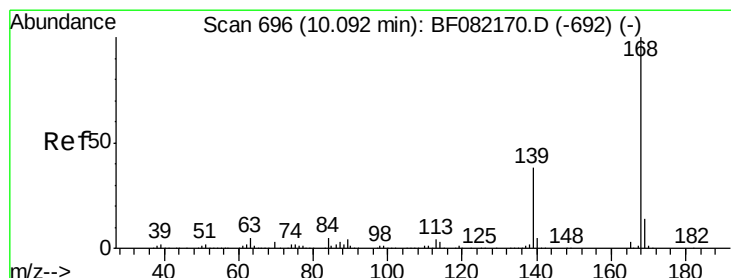
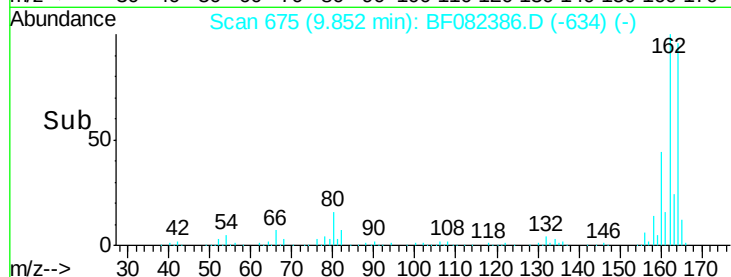
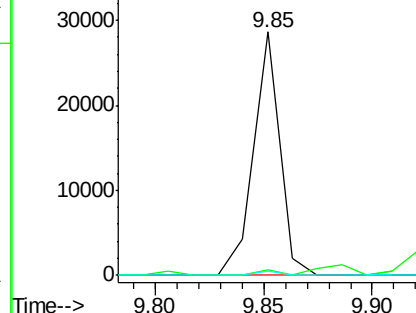
#50
 2,6-Dinitrotoluene
 Concen: 8.47 ng
 RT: 9.85 min Scan# 675
 Delta R.T. 0.17 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK902DL

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	23984		
63	2.1	36.7	55.1#	
89	1.5	37.8	56.6#	

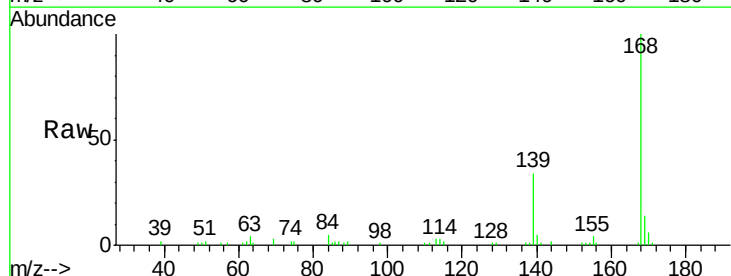


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

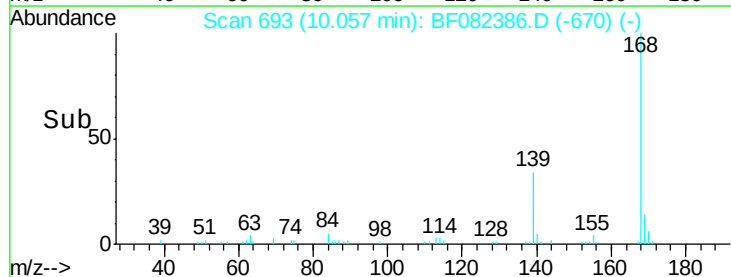
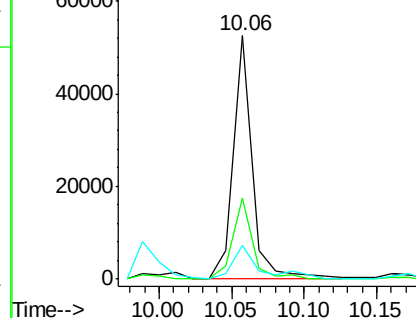


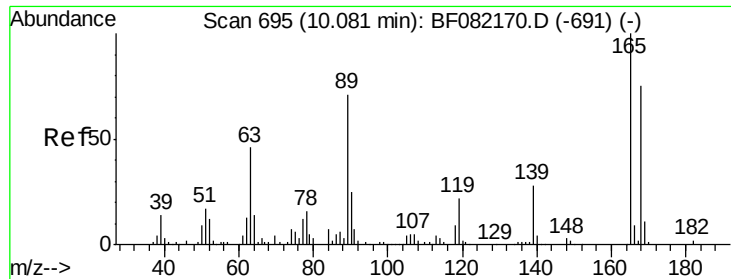
#54
 Dibenzofuran
 Concen: 3.25 ng
 RT: 10.06 min Scan# 693
 Delta R.T. -0.03 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	47793		
139	33.5	31.0	46.6	
169	14.0	10.9	16.3	



Abundance Ion 168.00 (167.70 to 168.70): E
 Ion 139.00 (138.70 to 139.70): E
 Ion 169.00 (168.70 to 169.70): E

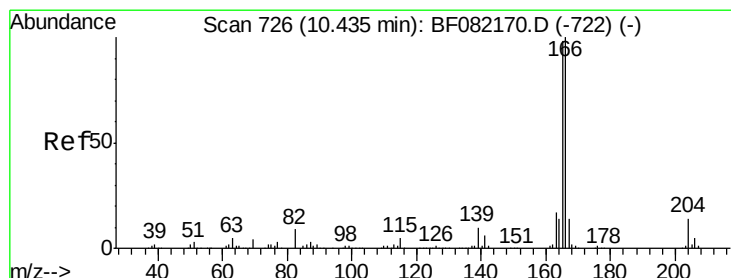
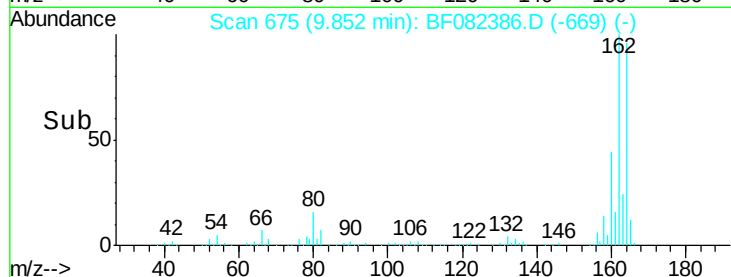
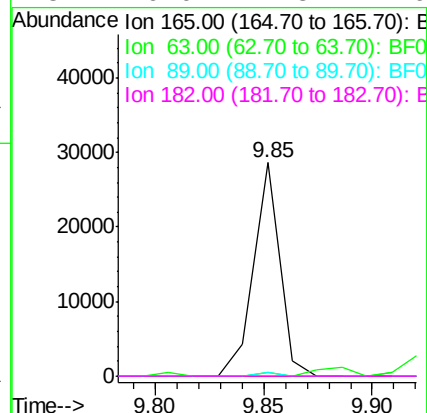
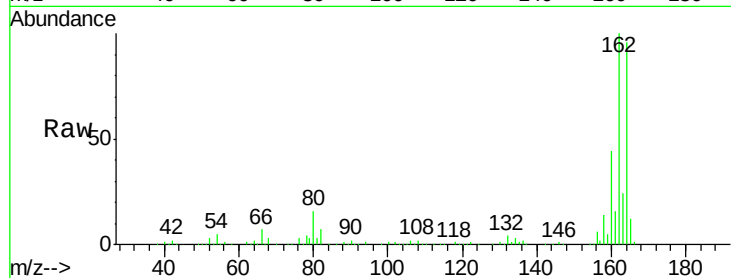




#56
2,4-Dinitrotoluene
Concen: 6.78 ng
RT: 9.85 min Scan# 675
Delta R.T. -0.23 min
Lab File: BF082386.D
Acq: 20 Oct 2015 6:56

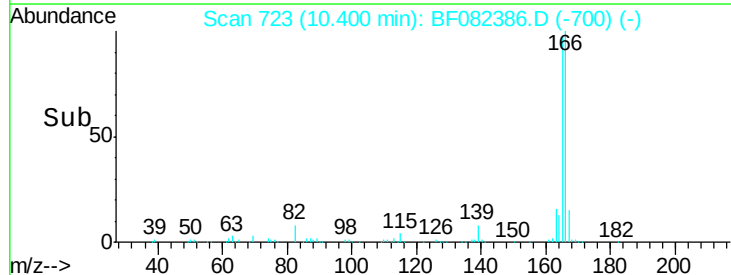
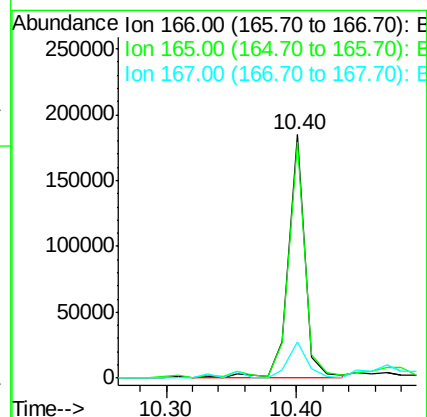
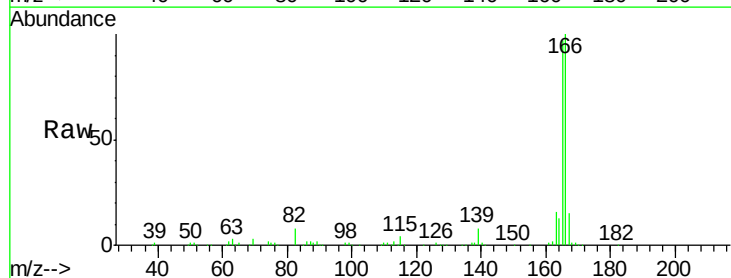
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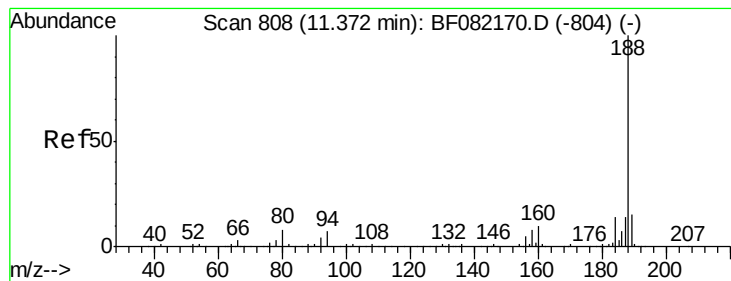
Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.1	38.6	58.0#
89	1.5	57.0	85.6#
182	0.0	1.8	2.6#



#57
Fluorene
Concen: 13.47 ng
RT: 10.40 min Scan# 723
Delta R.T. -0.03 min
Lab File: BF082386.D
Acq: 20 Oct 2015 6:56

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.3	117.5
167	14.7	10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.35 min Scan# 806

Delta R.T. -0.02 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

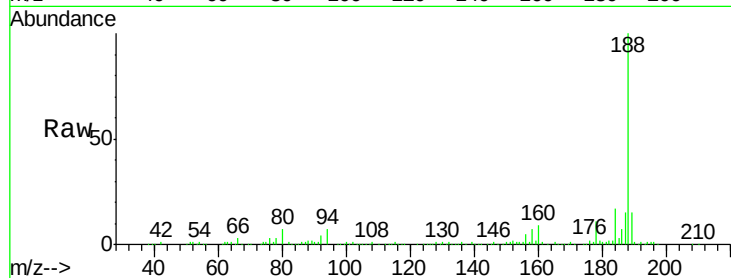
Tgt Ion:188 Resp: 328926

Ion Ratio Lower Upper

188 100

94 7.0 5.8 8.6

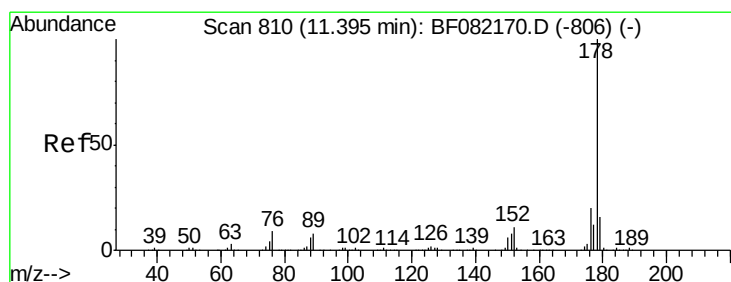
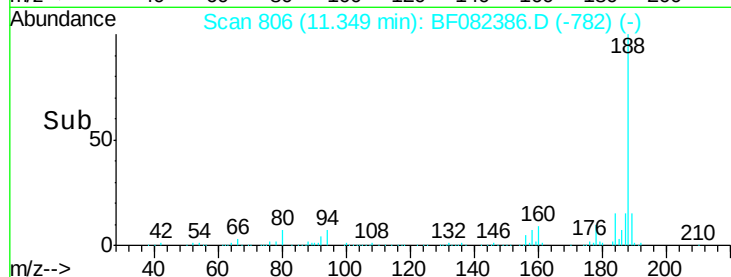
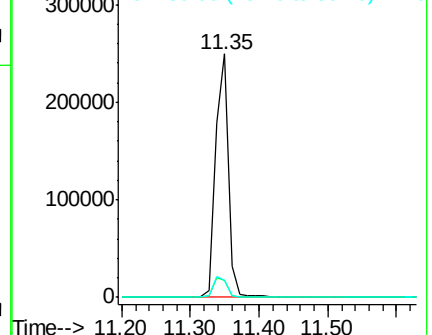
80 7.2 6.4 9.6



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: 158.49 ng

RT: 11.38 min Scan# 809

Delta R.T. -0.01 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

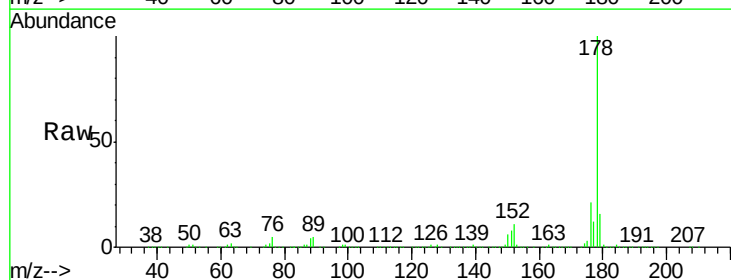
Tgt Ion:178 Resp: 2555297

Ion Ratio Lower Upper

178 100

176 21.4 16.0 24.0

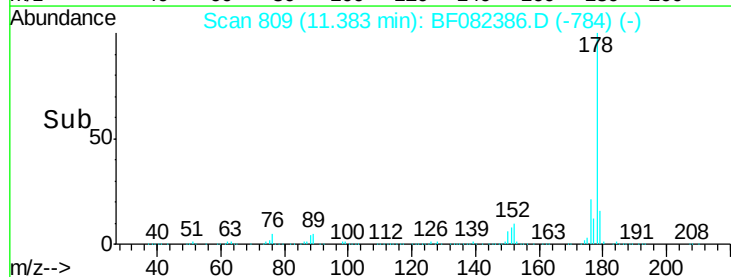
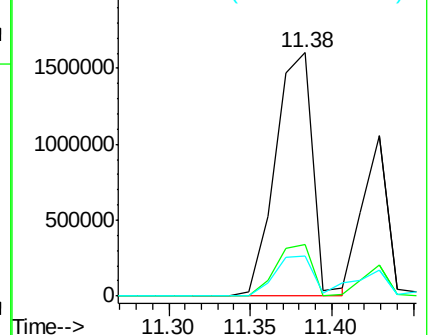
179 16.4 12.6 19.0

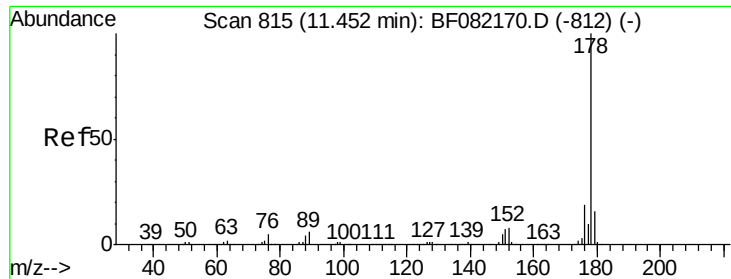


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

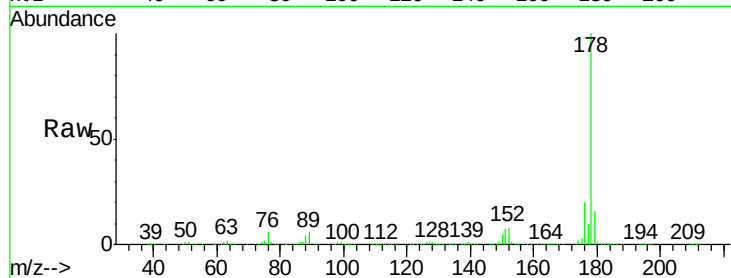




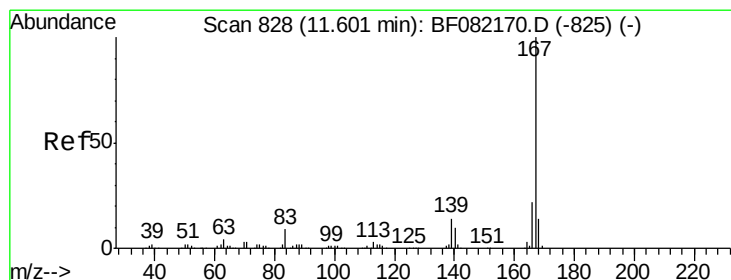
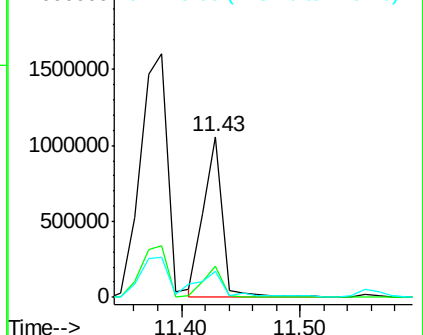
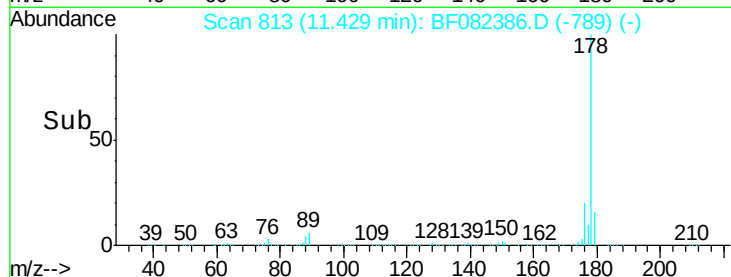
#71
 Anthracene
 Concen: 70.75 ng
 RT: 11.43 min Scan# 813
 Delta R.T. -0.02 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Instrument :
 BNA_F
 ClientSampleId :
 GOODLUCK902DL

Tgt Ion:178 Resp: 1175473
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.4 23.0
 179 16.0 12.5 18.7

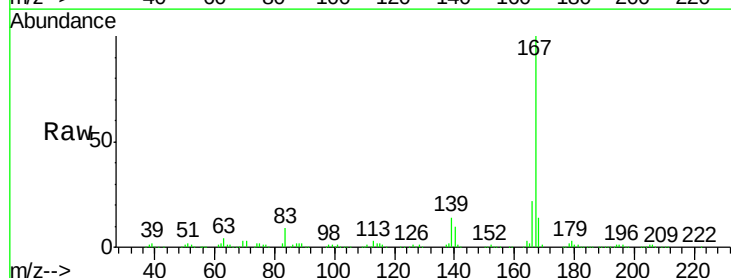


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

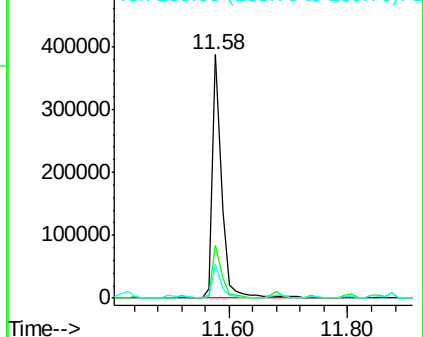
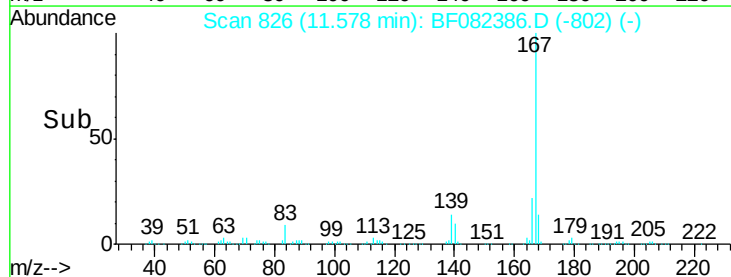


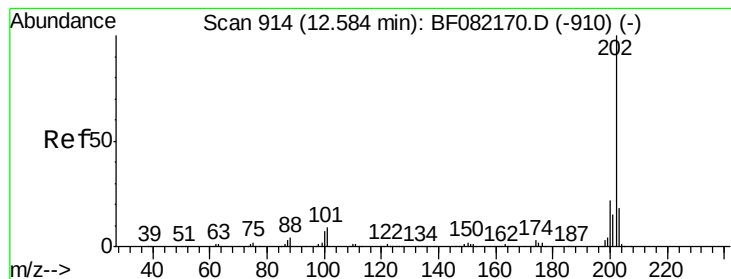
#72
 Carbazole
 Concen: 27.32 ng
 RT: 11.58 min Scan# 826
 Delta R.T. -0.02 min
 Lab File: BF082386.D
 Acq: 20 Oct 2015 6:56

Tgt Ion:167 Resp: 413985
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.3 25.9
 139 13.7 11.2 16.8



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: 132.47 ng

RT: 12.57 min Scan# 913

Delta R.T. -0.01 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

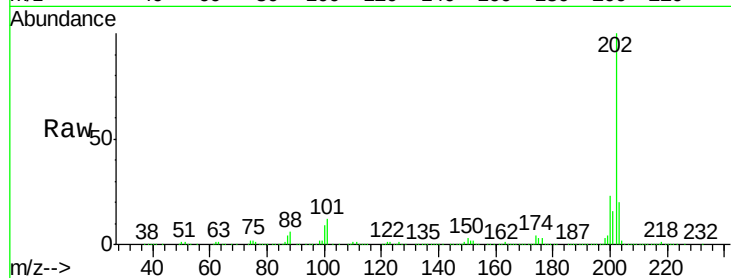
Tgt Ion:202 Resp: 2293938

Ion Ratio Lower Upper

202 100

101 12.1 0.0 29.3

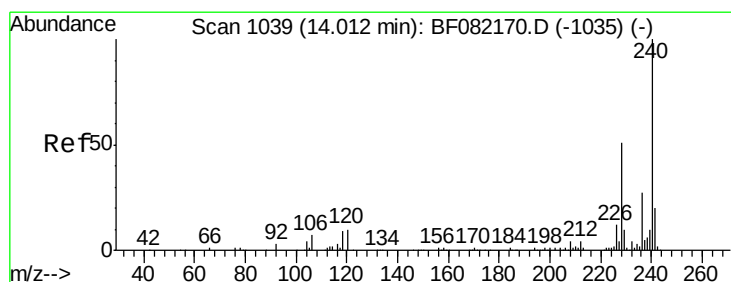
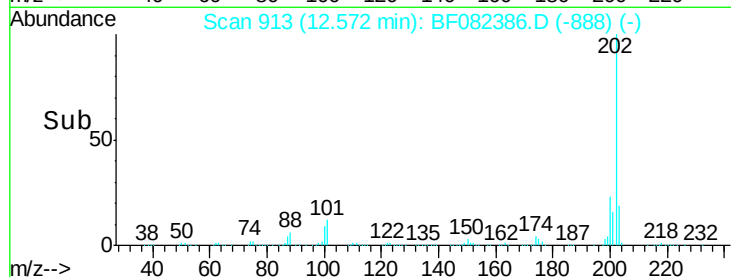
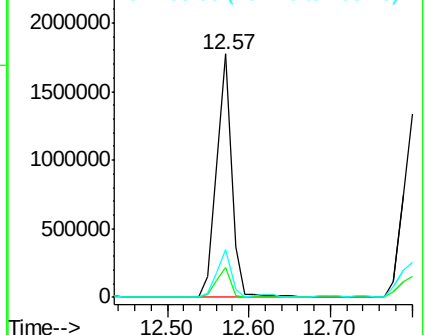
203 19.5 0.0 37.8



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: 14.01 min Scan# 1039

Delta R.T. -0.00 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

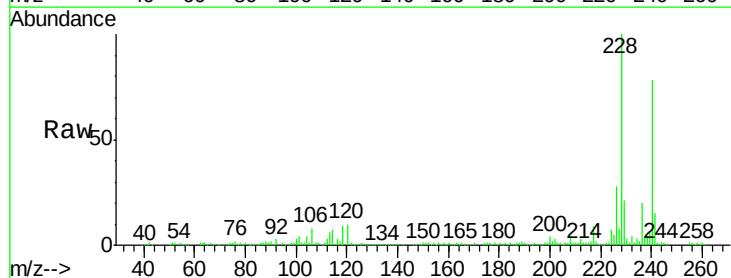
Tgt Ion:240 Resp: 250015

Ion Ratio Lower Upper

240 100

120 13.1 8.1 12.1#

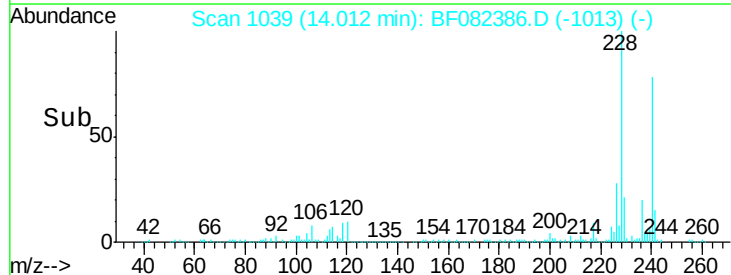
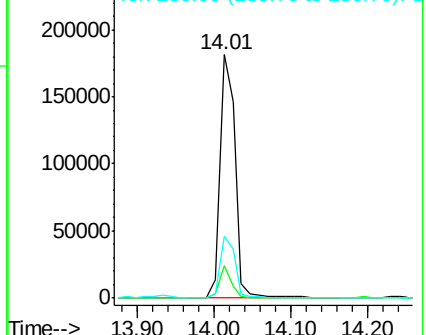
236 25.5 21.3 31.9

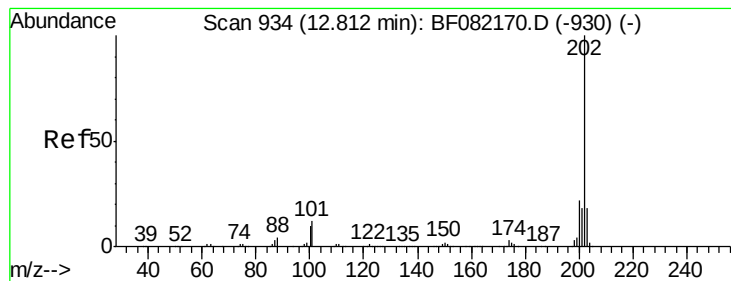


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 105.38 ng

RT: 12.80 min Scan# 933

Delta R.T. -0.01 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

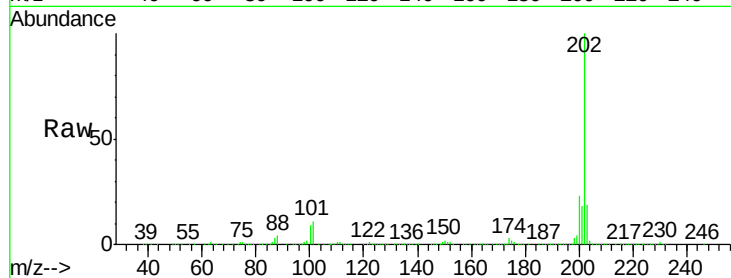
Tgt Ion:202 Resp: 1563483

Ion Ratio Lower Upper

202 100

200 22.5 17.9 26.9

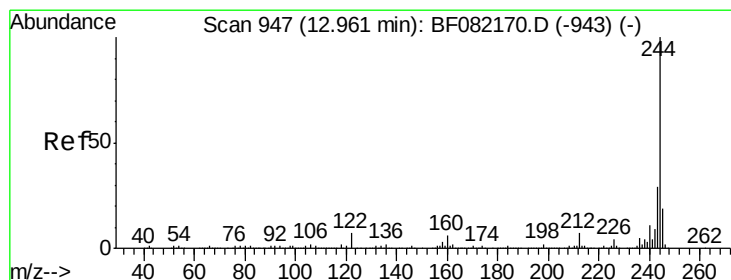
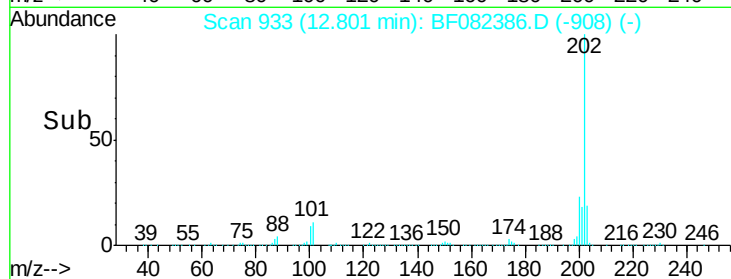
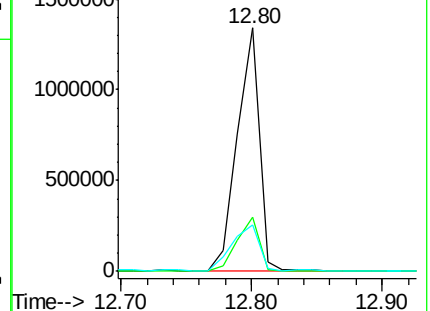
203 19.0 14.5 21.7



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: 1.99 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

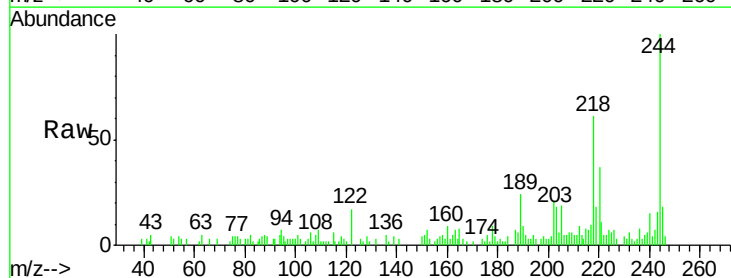
Tgt Ion:244 Resp: 18814

Ion Ratio Lower Upper

244 100

212 9.1 5.8 8.6#

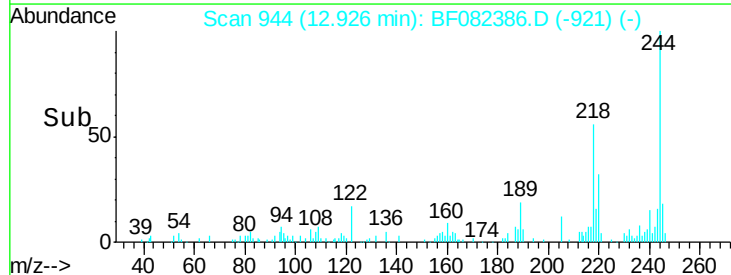
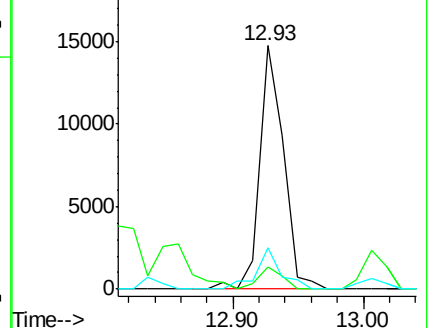
122 17.0 5.9 8.9#

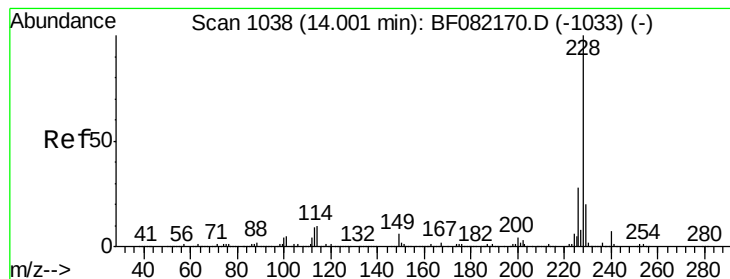


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

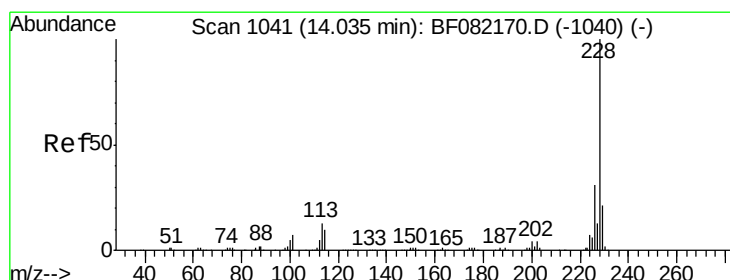
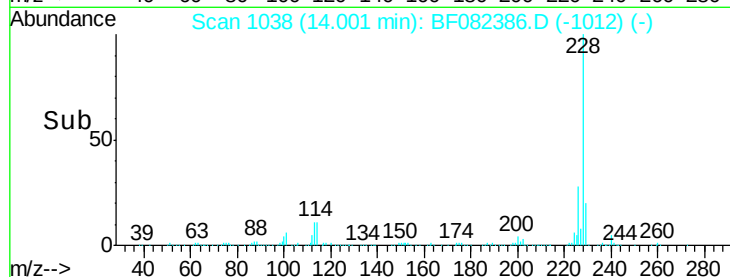
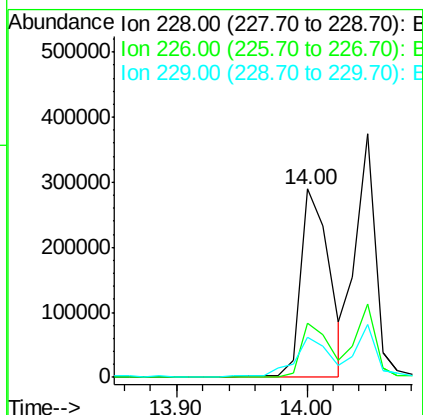
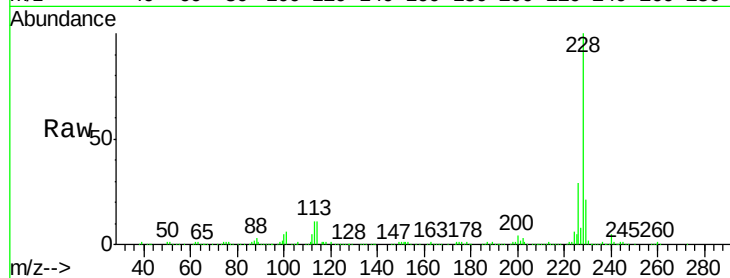




#80
Benzo(a)anthracene
Concen: 33.59 ng
RT: 14.00 min Scan# 1038
Delta R.T. -0.00 min
Lab File: BF082386.D
Acq: 20 Oct 2015 6:56

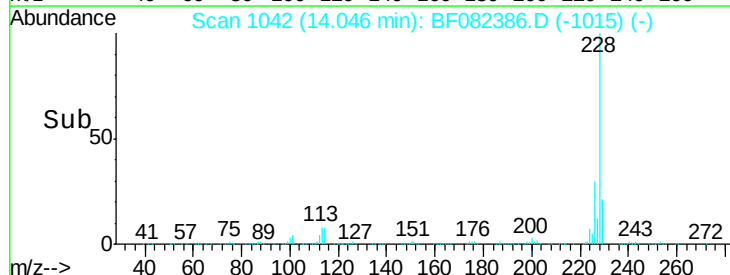
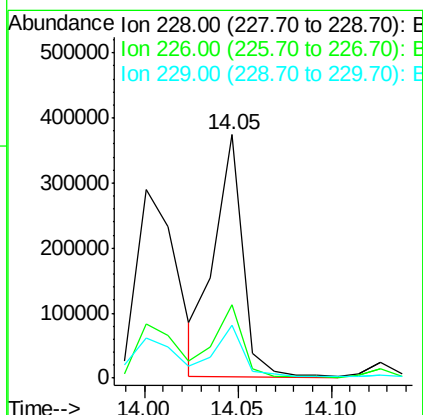
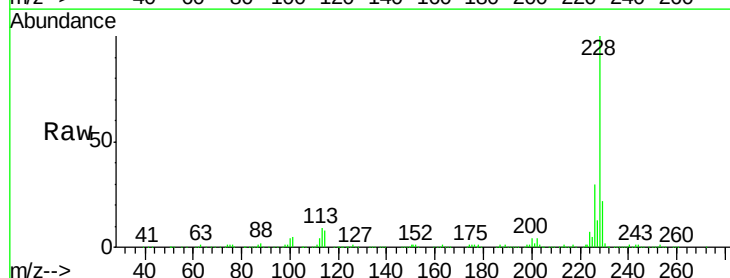
Instrument :
BNA_F
ClientSampleId :
GOODLUCK902DL

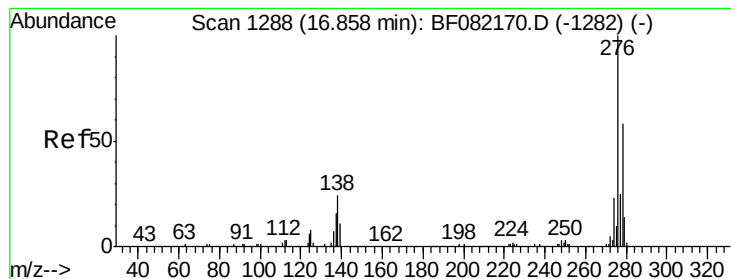
Tgt Ion: 228 Resp: 436901
Ion Ratio Lower Upper
228 100
226 28.7 22.3 33.5
229 21.1 16.2 24.2



#82
Chrysene
Concen: 28.86 ng
RT: 14.05 min Scan# 1042
Delta R.T. 0.01 min
Lab File: BF082386.D
Acq: 20 Oct 2015 6:56

Tgt Ion: 228 Resp: 395560
Ion Ratio Lower Upper
228 100
226 30.4 24.4 36.6
229 21.7 16.3 24.5





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.62 ng

RT: 16.94 min Scan# 1295

Delta R.T. 0.08 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

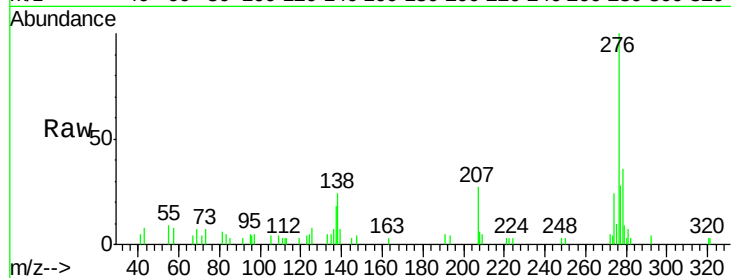
Tgt Ion: 276 Resp: 28570

Ion Ratio Lower Upper

276 100

138 28.7 19.7 29.5

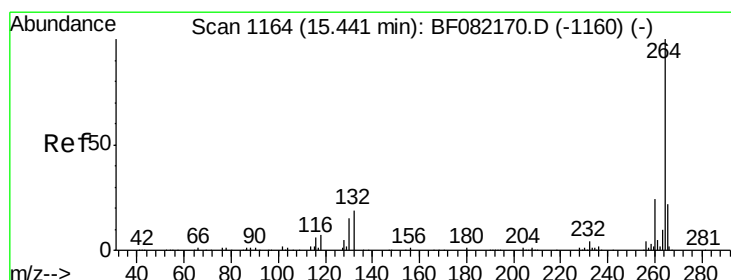
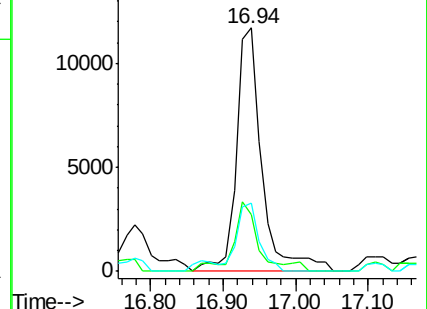
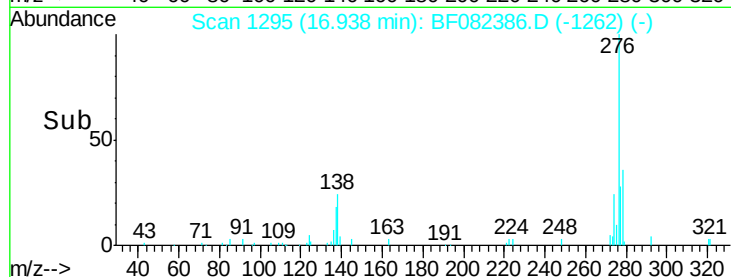
277 24.9 20.1 30.1



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: 15.52 min Scan# 1171

Delta R.T. 0.08 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

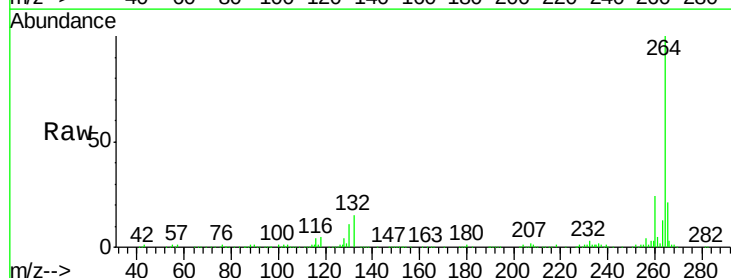
Tgt Ion: 264 Resp: 231804

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.6

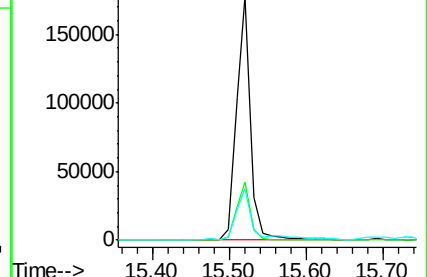
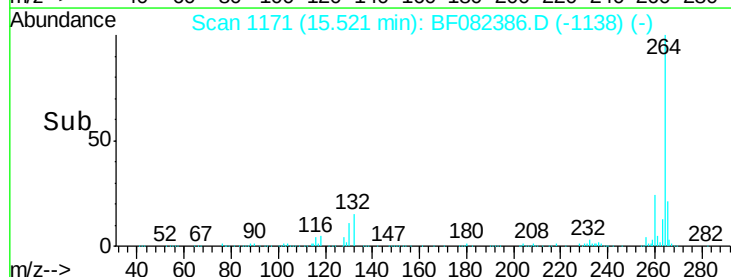
265 21.1 17.3 25.9

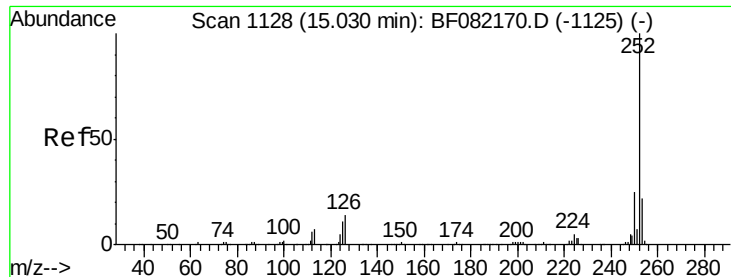


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 21.92 ng

RT: 15.10 min Scan# 1134

Delta R.T. 0.07 min

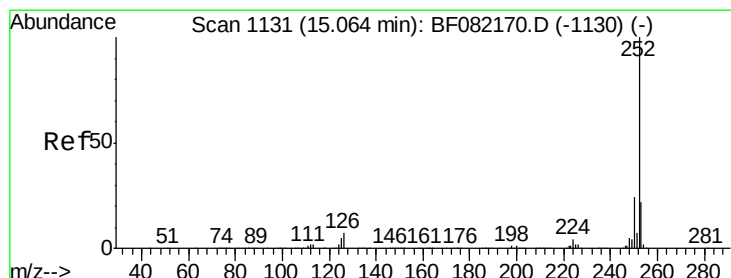
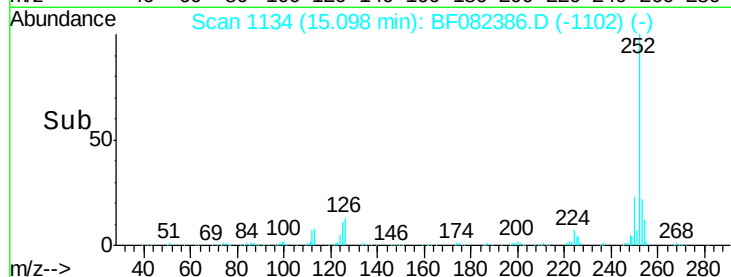
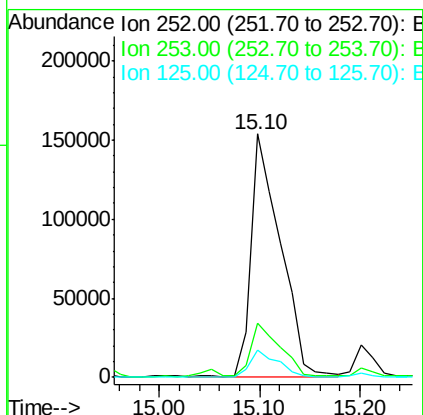
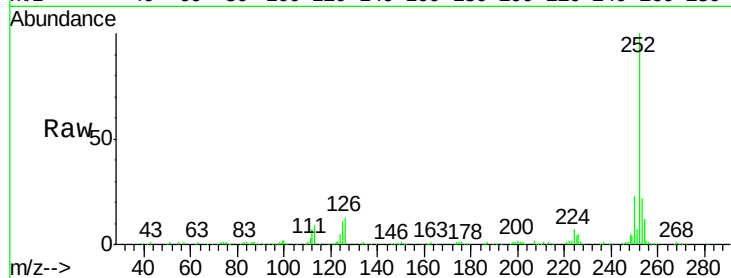
Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :
BNA_F
ClientSampleId :
GOODLUCK902DL

Tgt Ion: 252 Resp: 309200

Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.0	27.0
125	11.0	8.6	12.8



#88

Benzo(k)fluoranthene

Concen: 26.08 ng

RT: 15.10 min Scan# 1134

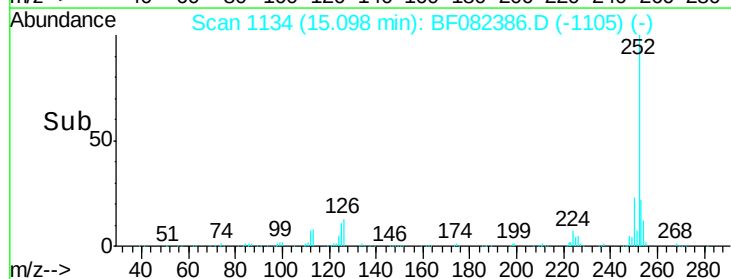
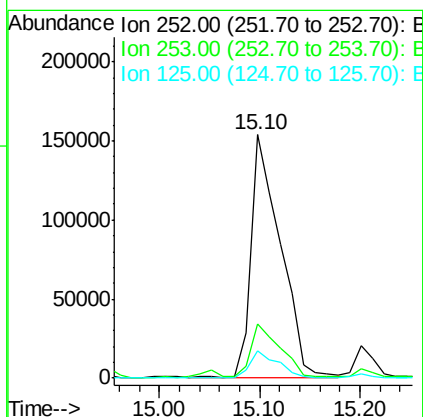
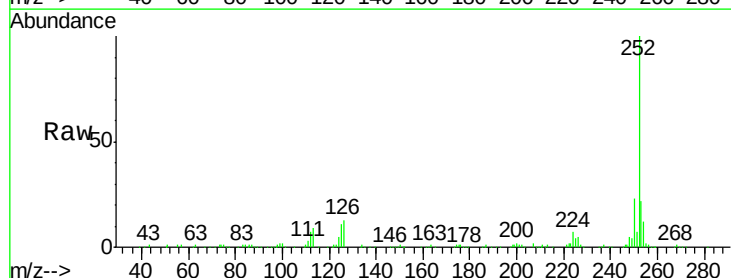
Delta R.T. 0.03 min

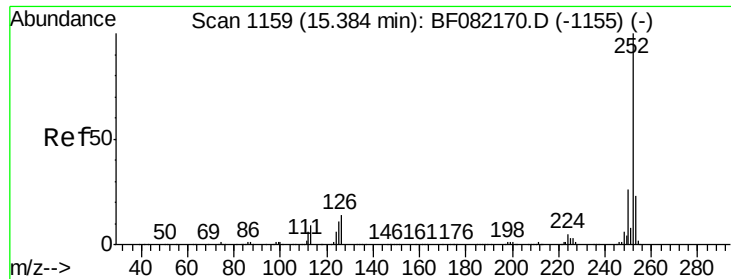
Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Tgt Ion: 252 Resp: 309200

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	11.0	6.7	10.1#





#89

Benzo(a)pyrene

Concen: 6.11 ng

RT: 15.45 min Scan# 1165

Delta R.T. 0.07 min

Lab File: BF082386.D

Acq: 20 Oct 2015 6:56

Instrument :

BNA_F

ClientSampleId :

GOODLUCK902DL

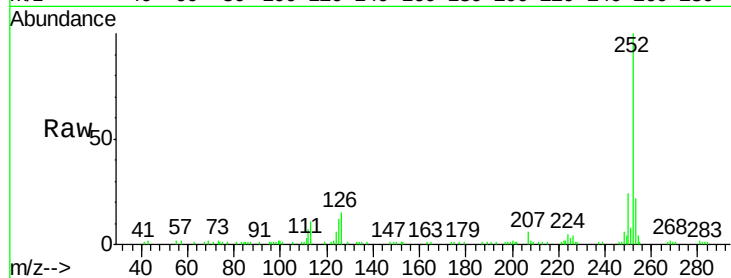
Tgt Ion: 252 Resp: 74012

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

125 12.4 8.9 13.3



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

