

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062716\
 Data File : BF088482.D
 Acq On : 28 Jun 2016 7:31
 Operator : UM/SJ
 Sample : H3602-07DL 10X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL

Quant Time: Jun 28 15:02:01 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 28 05:25:55 2016
 Response via : Initial Calibration

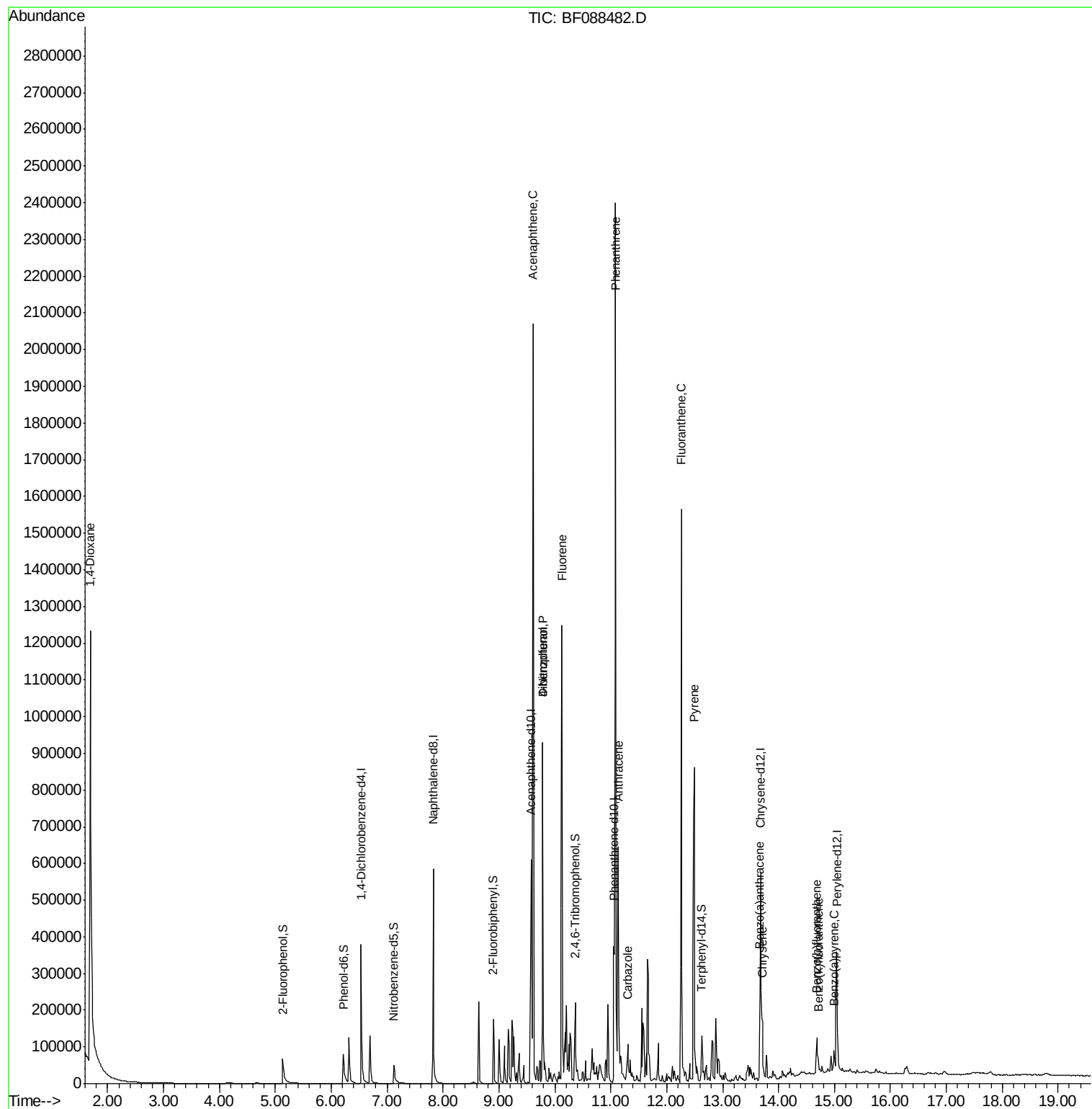
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	77000	20.00	ng	-0.01
21) Naphthalene-d8	7.83	136	311285	20.00	ng	-0.01
38) Acenaphthene-d10	9.58	164	128821	20.00	ng	-0.01
63) Phenanthrene-d10	11.05	188	192510	20.00	ng	-0.01
75) Chrysene-d12	13.68	240	168638	20.00	ng	-0.01
86) Perylene-d12	15.04	264	161772	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	55910	12.41	ng	0.00
7) Phenol-d6	6.22	99	75745	13.88	ng	-0.01
23) Nitrobenzene-d5	7.12	82	45376	8.51	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	9962	7.32	ng	-0.01
44) 2-Fluorobiphenyl	8.90	172	72646	3.55	ng	-0.02
78) Terphenyl-d14	12.63	244	45523	6.14	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	1.69	88	74043	33.83	ng	# 87
51) Acenaphthene	9.61	154	490907	59.35	ng	98
54) Dibenzofuran	9.78	168	414497	36.39	ng	92
55) 4-Nitrophenol	9.78	139	151702	79.26	ng	# 6
57) Fluorene	10.12	166	410464	54.32	ng	97
70) Phenanthrene	11.09	178	1077673	106.68	ng	99
71) Anthracene	11.13	178	313179	30.73	ng	99
72) Carbazole	11.30	167	66414	6.96	ng	98
74) Fluoranthene	12.26	202	673410	63.17	ng	99
77) Pyrene	12.49	202	495799	39.62	ng	99
80) Benzo(a)anthracene	13.67	228	114053m	11.87	ng	
82) Chrysene	13.71	228	79791m	8.83	ng	
87) Benzo(b)fluoranthene	14.69	252	53193m	4.72	ng	
88) Benzo(k)fluoranthene	14.71	252	19828m	2.33	ng	
89) Benzo(a)pyrene	14.99	252	28597	3.13	ng	97

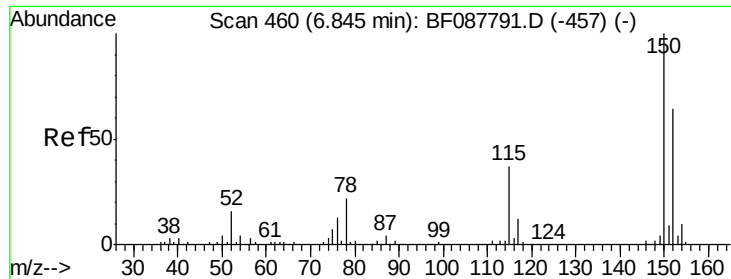
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.54 min Scan# 433

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

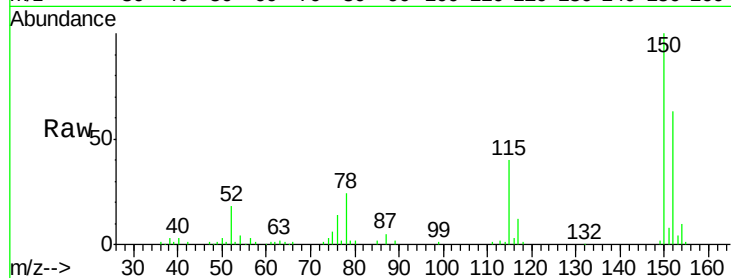
Tot Ion:152 Resp: 77000

Ion Ratio Lower Upper

152 100

150 159.4 123.8 185.6

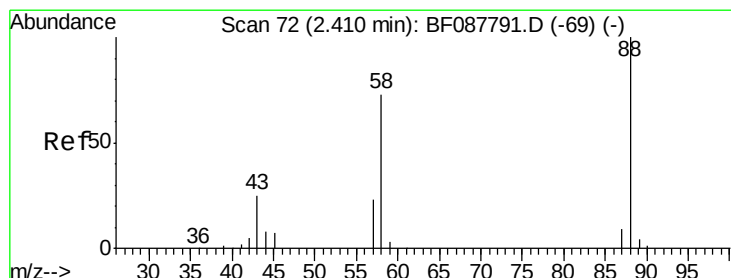
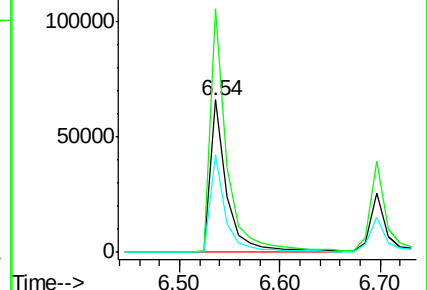
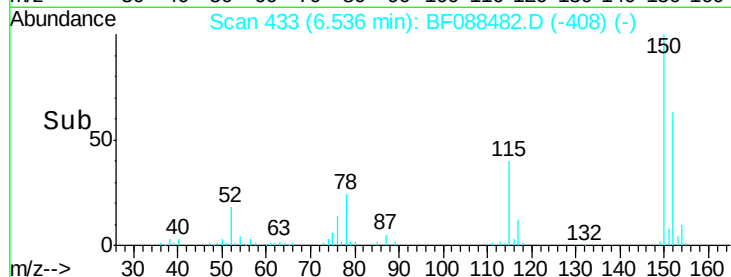
115 63.6 39.6 59.4#



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



#2

1,4-Dioxane

Concen: 33.83 ng

RT: 1.69 min Scan# 9

Delta R.T. -0.25 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

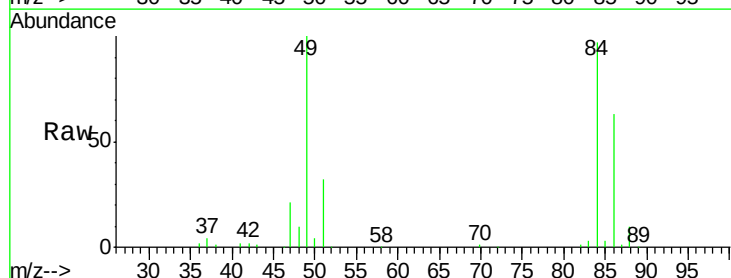
Tgt Ion: 88 Resp: 74043

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

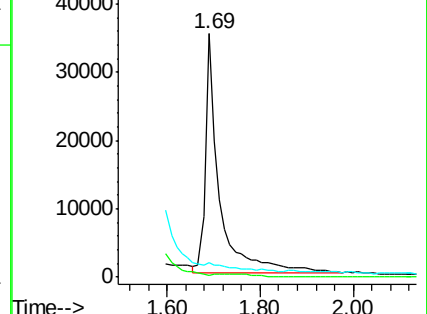
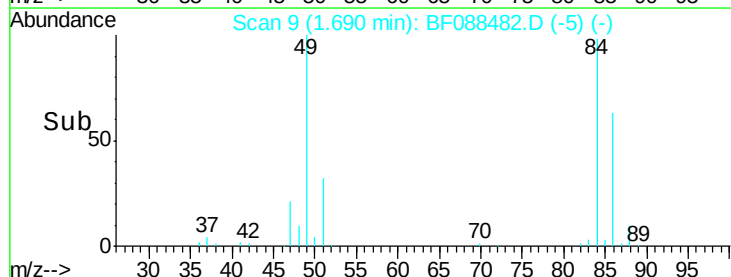
43 0.0 3.4 5.2#

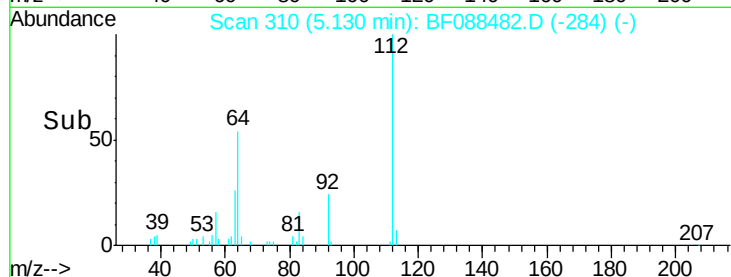
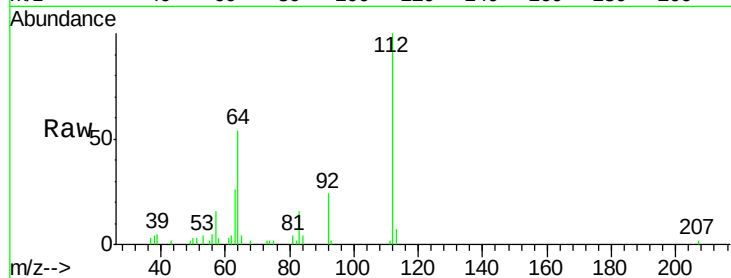
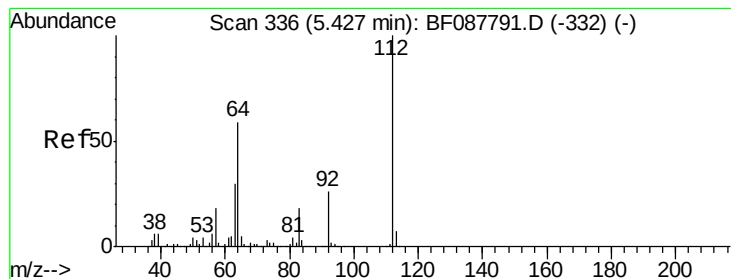


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 12.41 ng

RT: 5.13 min Scan# 310

Delta R.T. 0.00 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

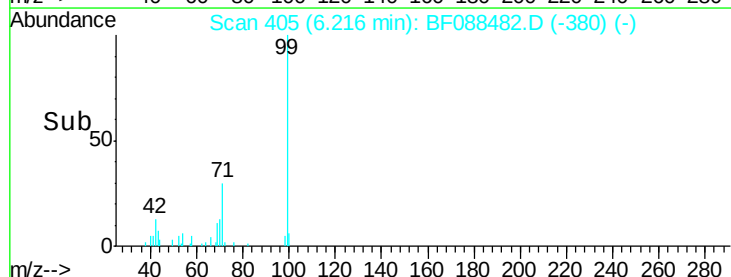
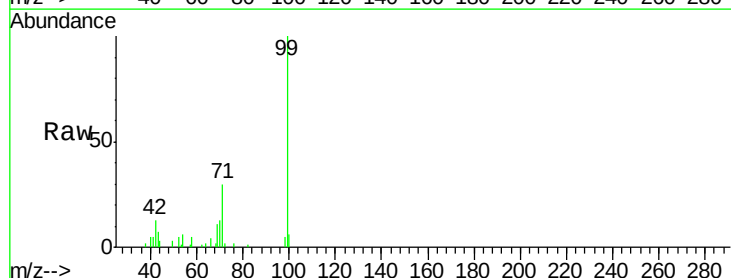
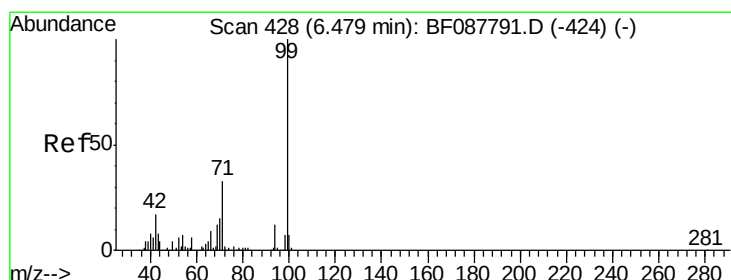
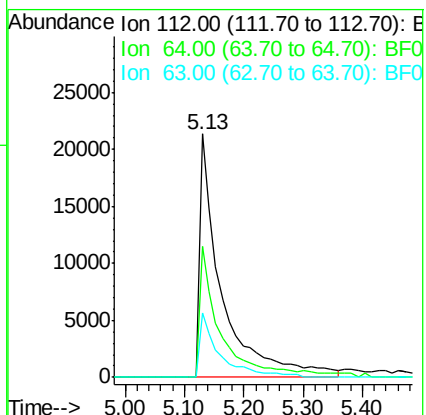
Tot Ion:112 Resp: 55910

Ion Ratio Lower Upper

112 100

64 53.8 42.2 63.2

63 26.5 21.8 32.8



#7

Phenol-d6

Concen: 13.88 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

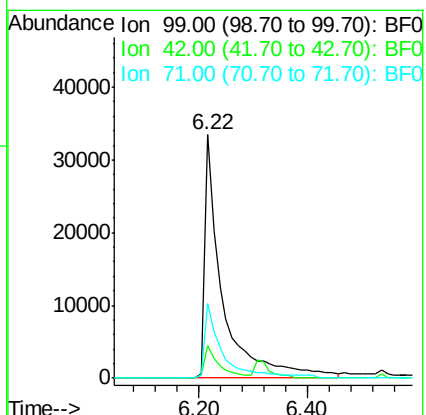
Tgt Ion: 99 Resp: 75745

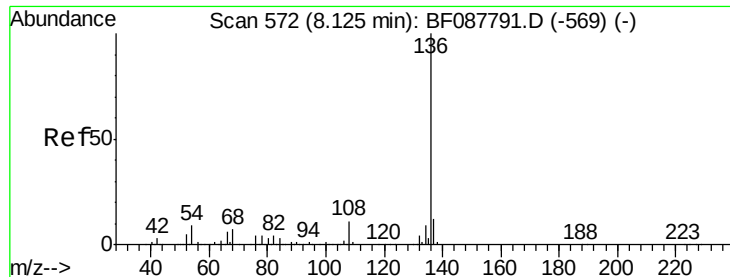
Ion Ratio Lower Upper

99 100

42 13.5 12.2 18.2

71 30.5 23.4 35.0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.83 min Scan# 546

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

Tot Ion:136 Resp: 311285

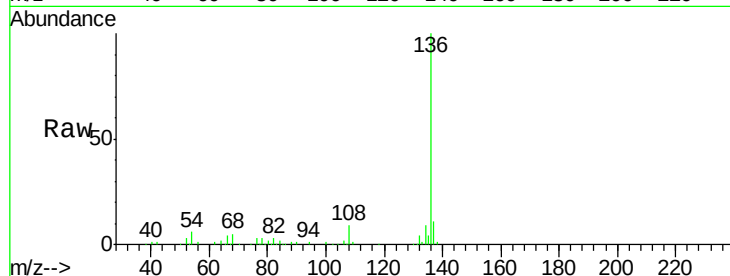
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.6 6.6 10.0#

68 4.8 5.1 7.7#

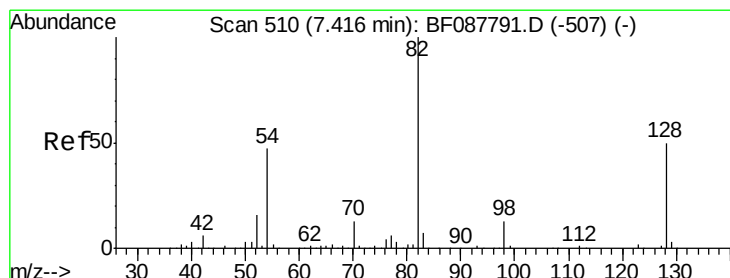
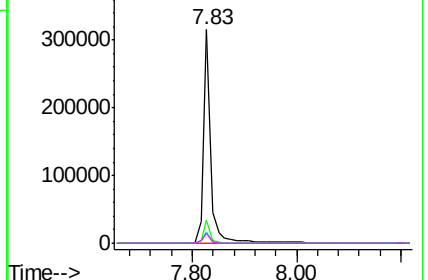
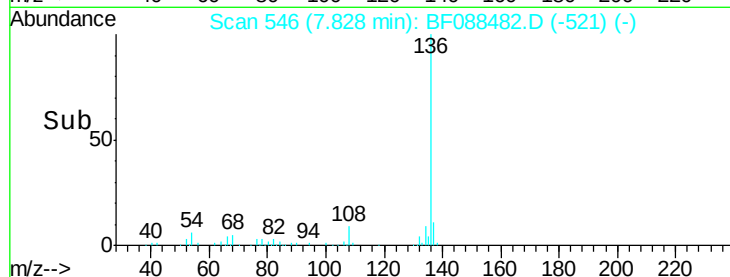


Abundance Ion 136.00 (135.70 to 136.70): E

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: 8.51 ng

RT: 7.12 min Scan# 484

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

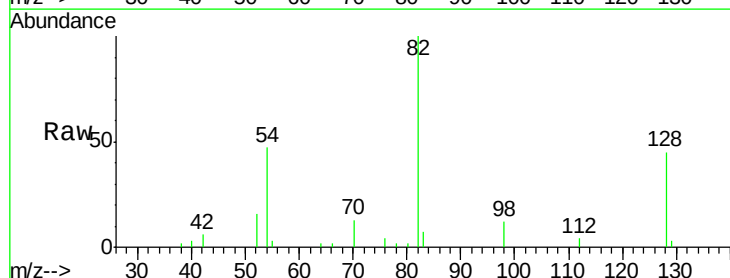
Tgt Ion: 82 Resp: 45376

Ion Ratio Lower Upper

82 100

128 44.9 35.9 53.9

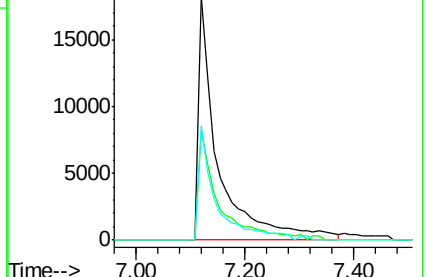
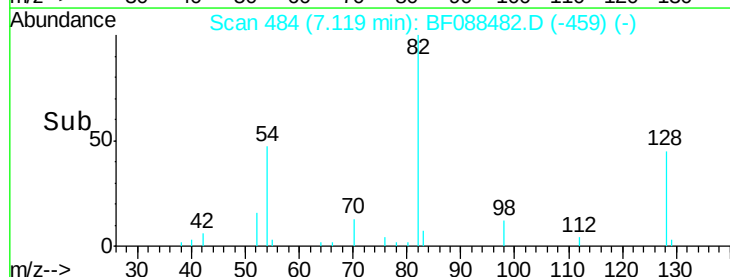
54 47.1 40.9 61.3

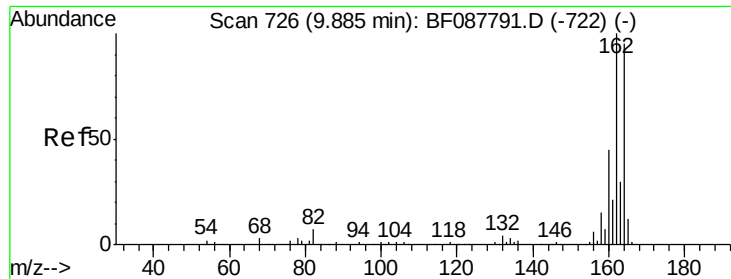


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

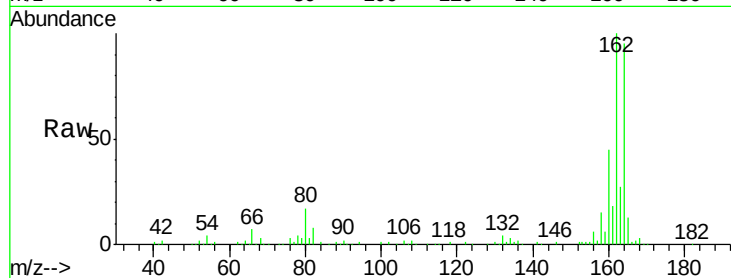




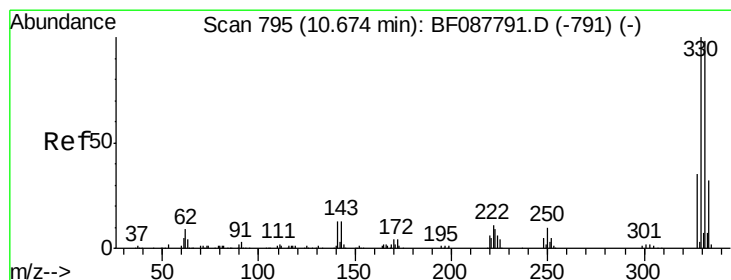
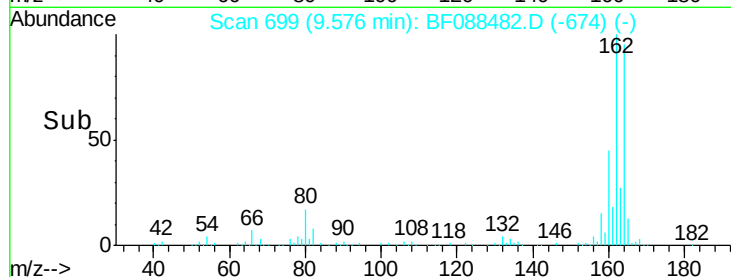
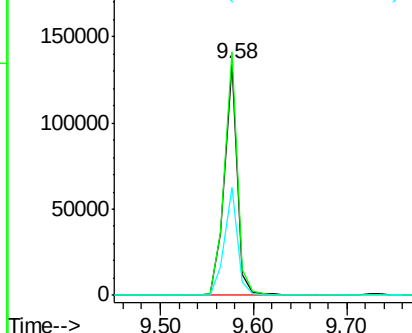
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF088482.D
Acq: 28 Jun 2016 7:31

Instrument :
BNA_F
ClientSampleId :
Q8-B4(0-2)CDL

Tot Ion:164 Resp: 128821
Ion Ratio Lower Upper
164 100
162 105.3 85.4 128.2
160 46.9 39.5 59.3

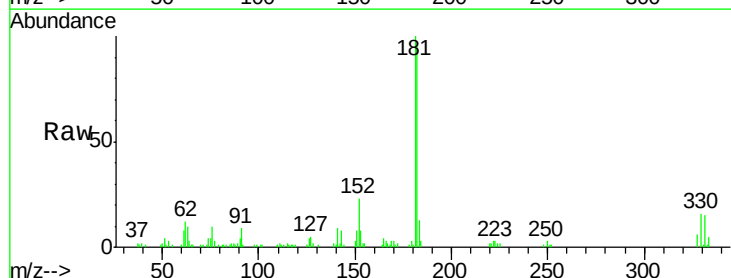


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

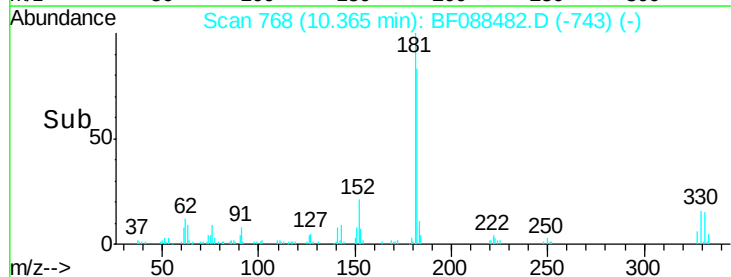
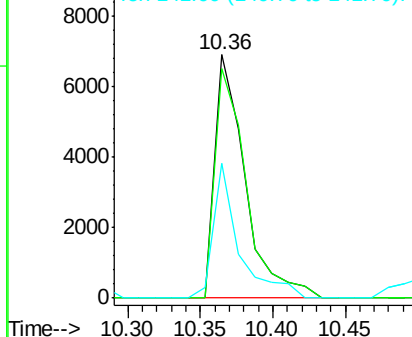


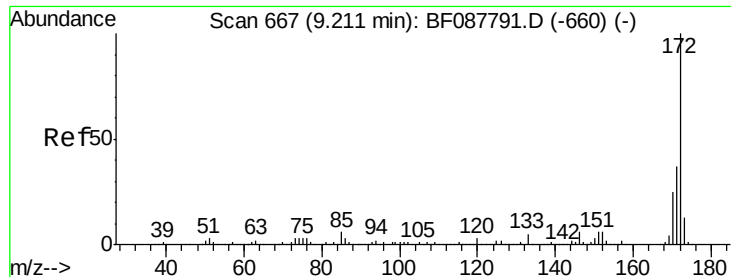
#41
2,4,6-Tribromophenol
Concen: 7.32 ng
RT: 10.36 min Scan# 768
Delta R.T. -0.01 min
Lab File: BF088482.D
Acq: 28 Jun 2016 7:31

Tgt Ion:330 Resp: 9962
Ion Ratio Lower Upper
330 100
332 98.3 0.0 0.0#
141 47.1 0.0 0.0#



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

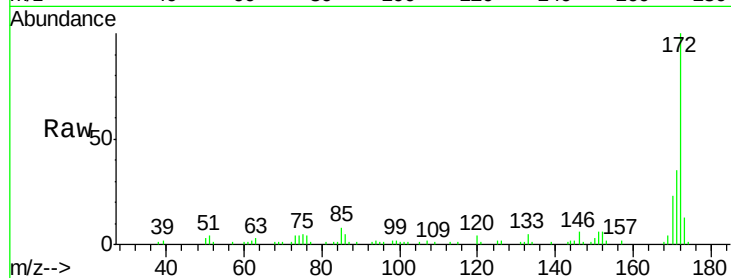




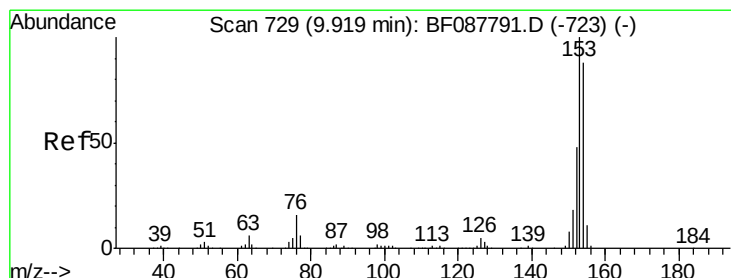
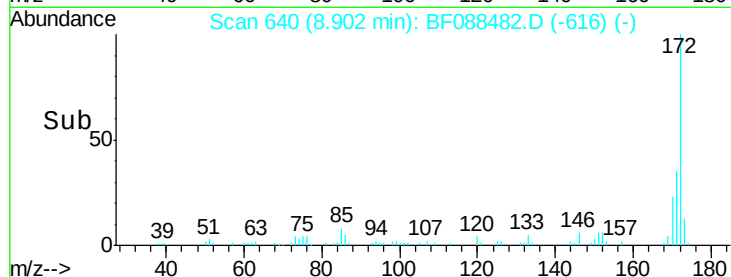
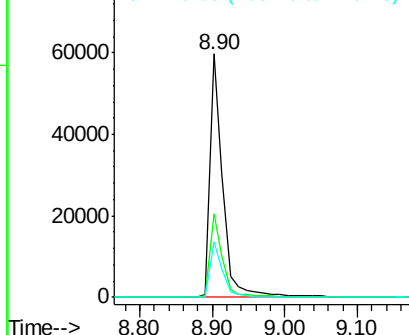
#44
 2-Fluorobiphenyl
 Concen: 3.55 ng
 RT: 8.90 min Scan# 640
 Delta R.T. -0.02 min
 Lab File: BF088482.D
 Acq: 28 Jun 2016 7:31

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL

Tot Ion:172 Resp: 72646
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.6 43.0
 170 22.7 19.2 28.8

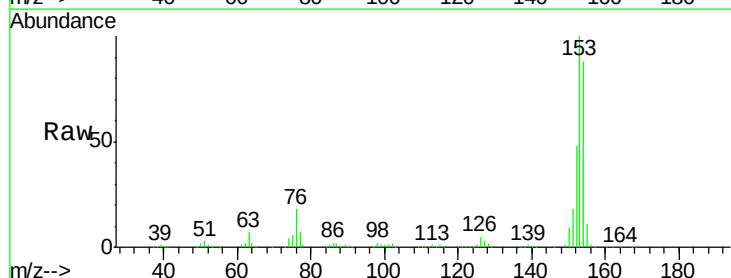


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

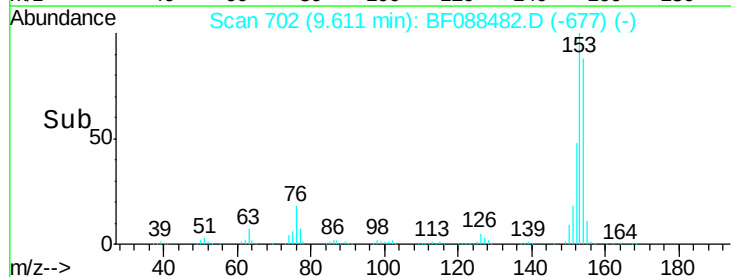
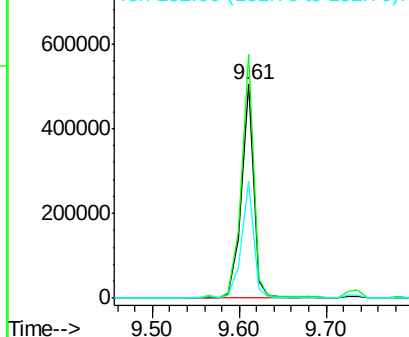


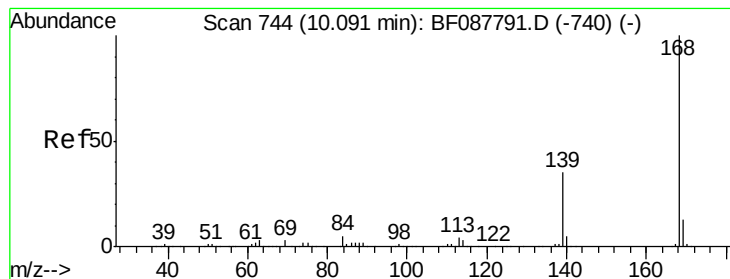
#51
 Acenaphthene
 Concen: 59.35 ng
 RT: 9.61 min Scan# 702
 Delta R.T. -0.01 min
 Lab File: BF088482.D
 Acq: 28 Jun 2016 7:31

Tgt Ion:154 Resp: 490907
 Ion Ratio Lower Upper
 154 100
 153 114.0 89.5 134.3
 152 54.9 42.7 64.1



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 36.39 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

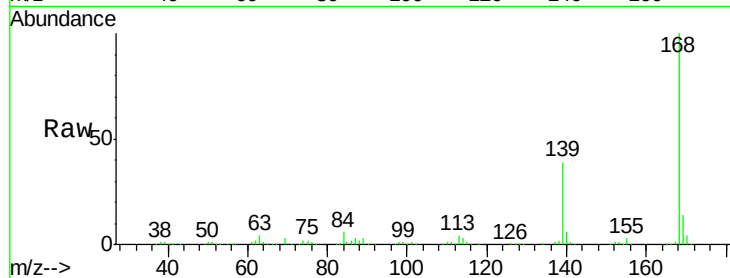
Tot Ion:168 Resp: 414497

Ion Ratio Lower Upper

168 100

139 38.6 26.4 39.6

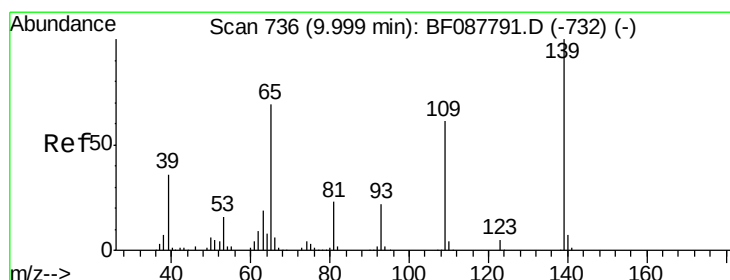
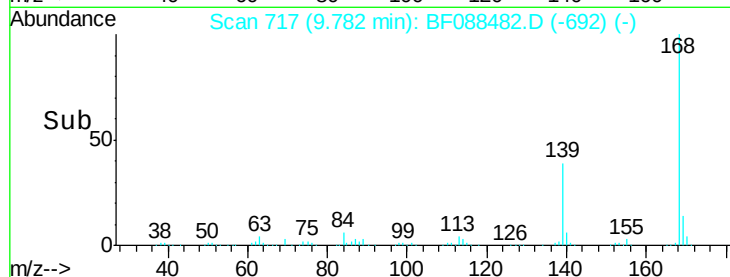
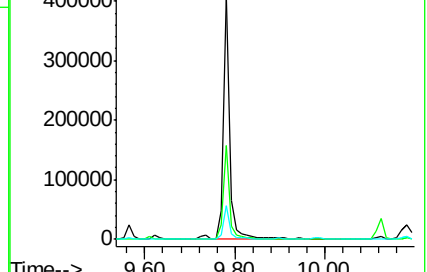
169 13.8 10.4 15.6



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



#55

4-Nitrophenol

Concen: 79.26 ng

RT: 9.78 min Scan# 717

Delta R.T. 0.00 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

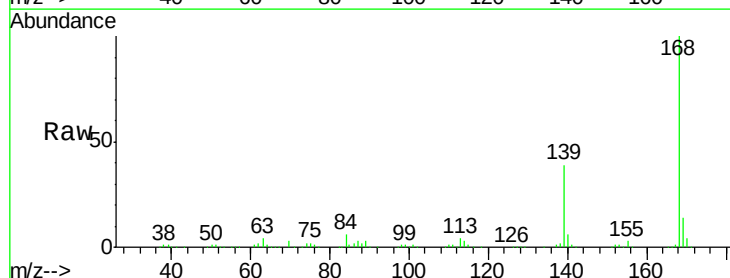
Tgt Ion:139 Resp: 151702

Ion Ratio Lower Upper

139 100

109 0.9 48.9 88.9#

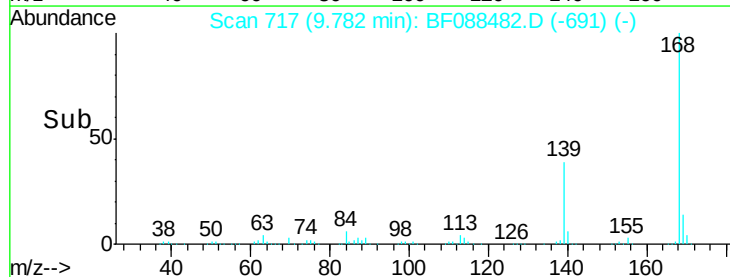
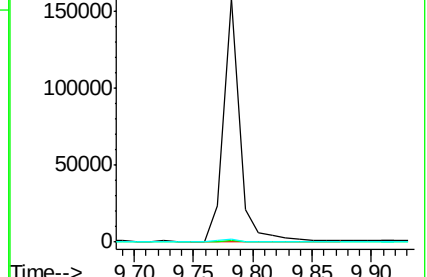
65 1.2 84.9 124.9#

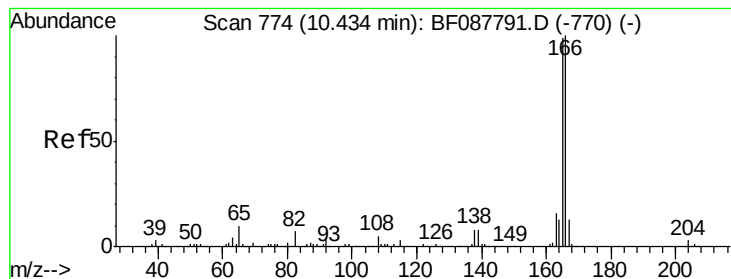


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 54.32 ng

RT: 10.12 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

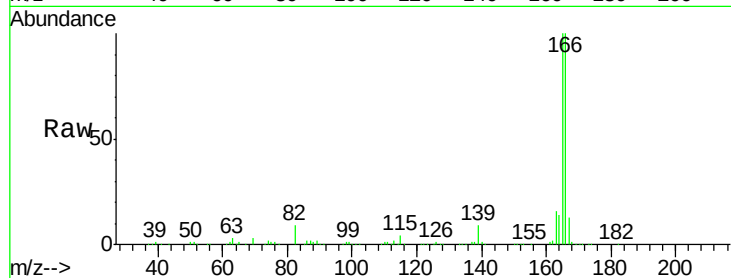
Tot Ion:166 Resp: 410464

Ion Ratio Lower Upper

166 100

165 100.0 77.8 116.8

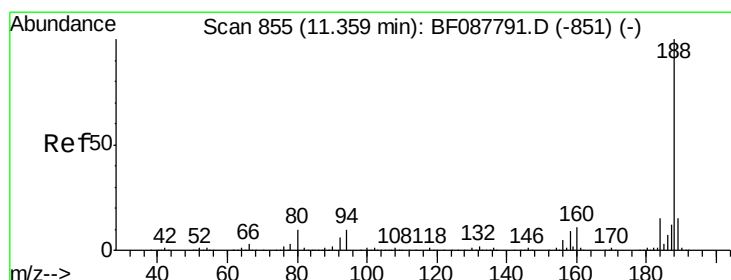
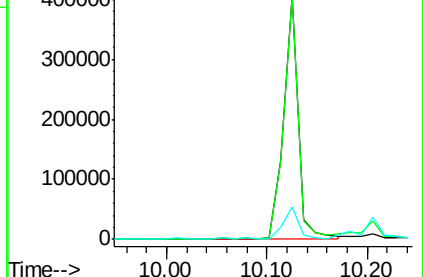
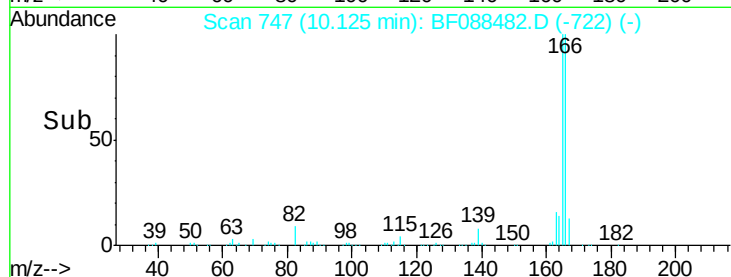
167 13.4 11.2 16.8



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: 11.05 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

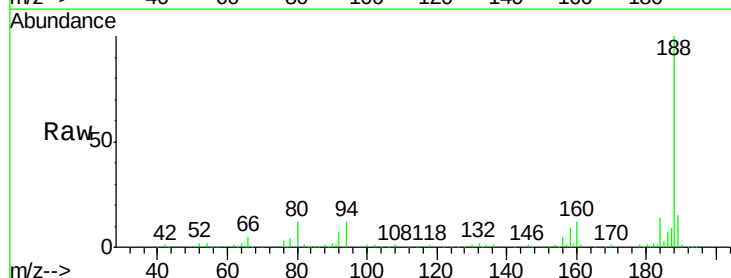
Tgt Ion:188 Resp: 192510

Ion Ratio Lower Upper

188 100

94 12.0 9.0 13.6

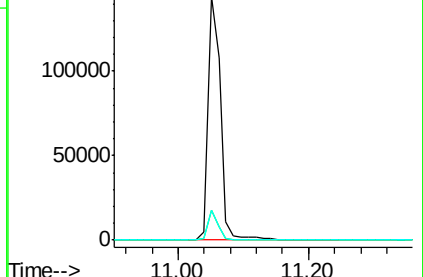
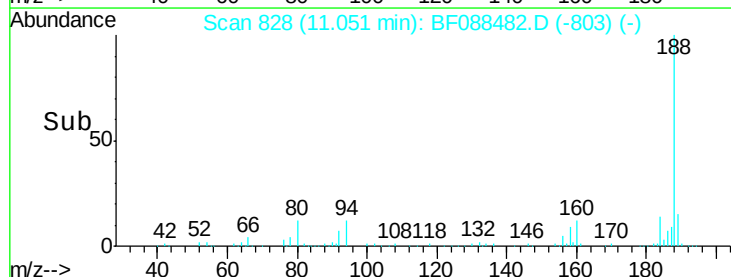
80 12.5 10.0 15.0

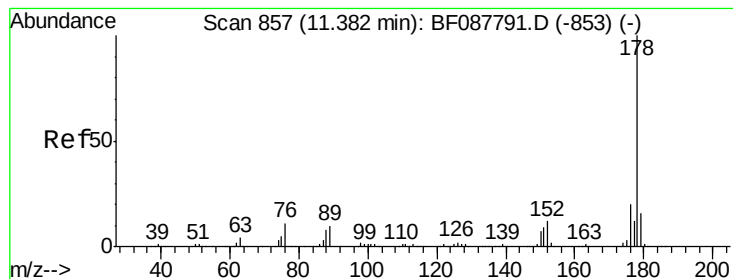


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 106.68 ng

RT: 11.09 min Scan# 831

Delta R.T. 0.00 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

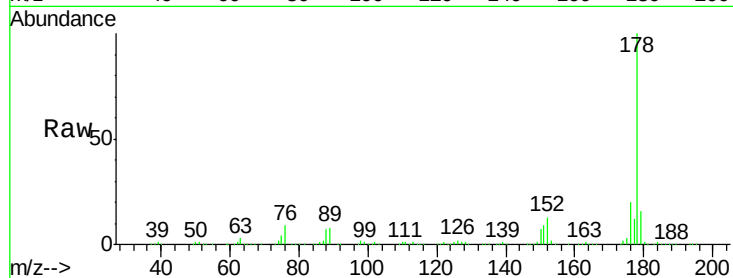
Tot Ion:178 Resp: 1077673

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.6

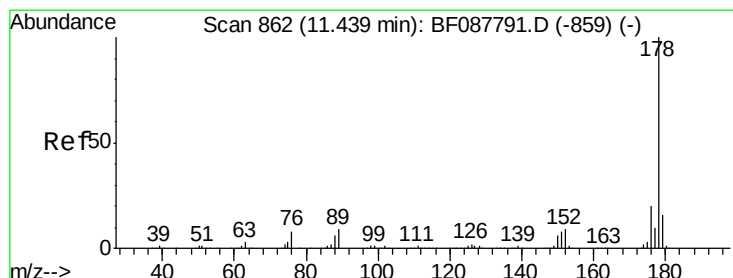
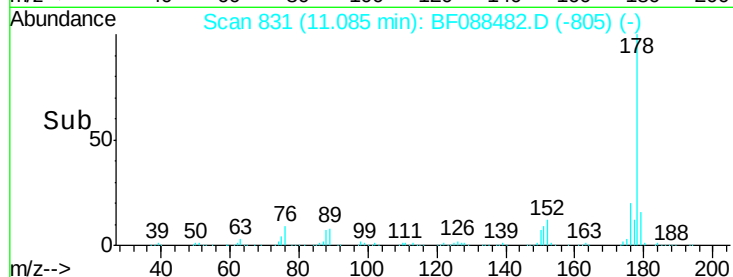
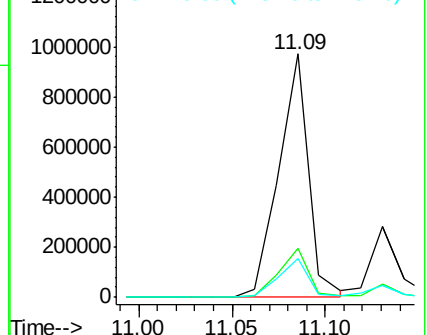
179 15.9 13.0 19.4



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: 30.73 ng

RT: 11.13 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

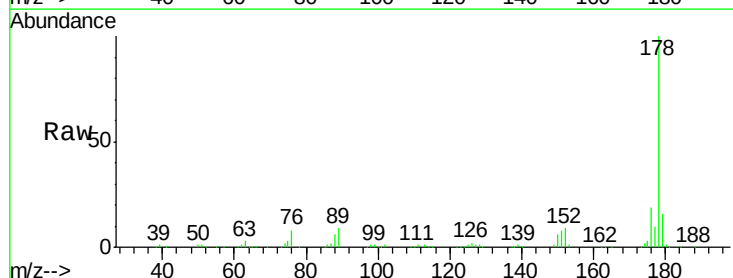
Tgt Ion:178 Resp: 313179

Ion Ratio Lower Upper

178 100

176 18.7 15.6 23.4

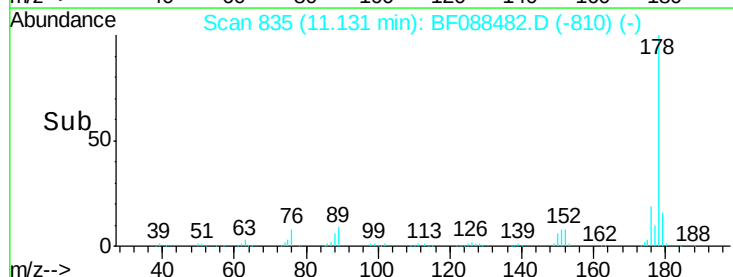
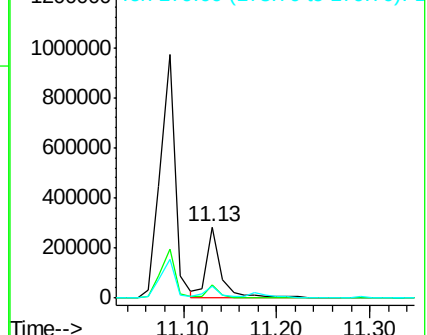
179 16.1 12.8 19.2

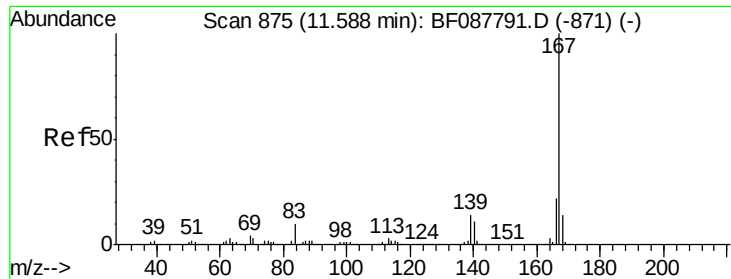


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.96 ng

RT: 11.30 min Scan# 850

Delta R.T. 0.00 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

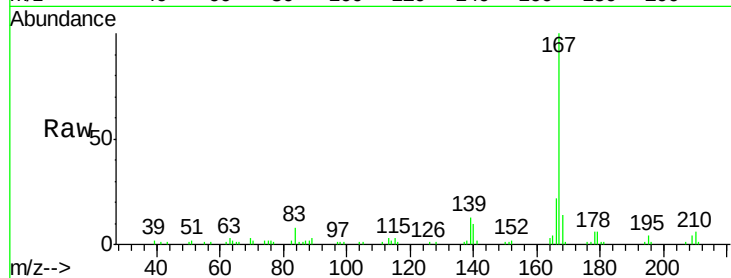
Tot Ion:167 Resp: 66414

Ion Ratio Lower Upper

167 100

166 22.4 17.8 26.6

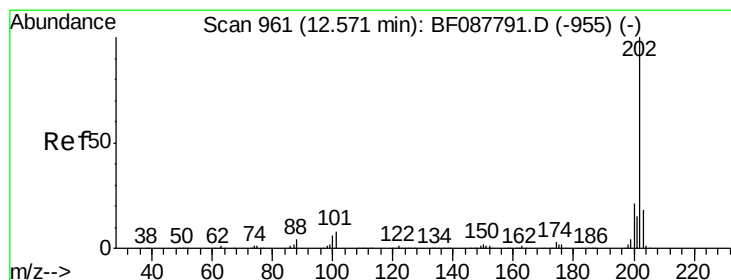
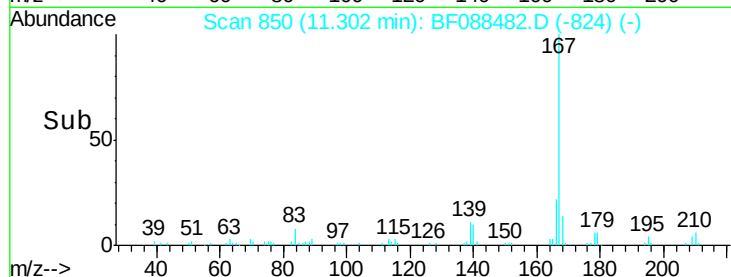
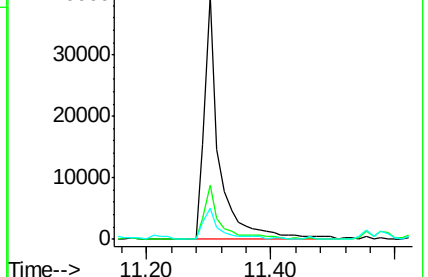
139 12.6 11.2 16.8



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: 63.17 ng

RT: 12.26 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

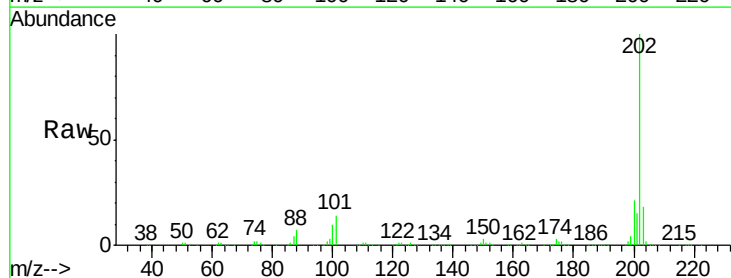
Tgt Ion:202 Resp: 673410

Ion Ratio Lower Upper

202 100

101 13.6 0.0 33.1

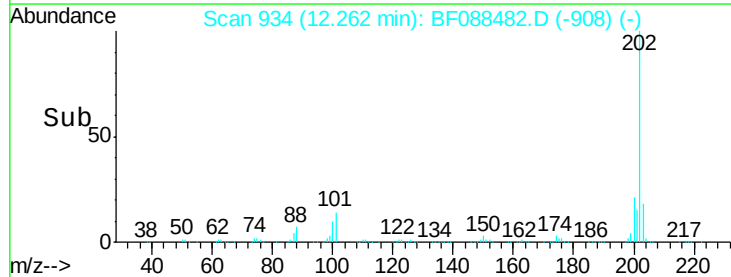
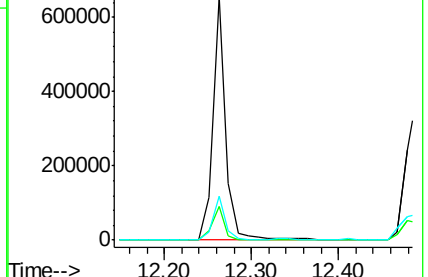
203 17.8 0.0 38.1

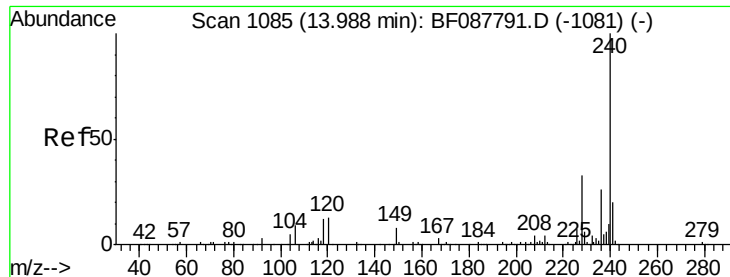


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.68 min Scan# 1058

Delta R.T. -0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

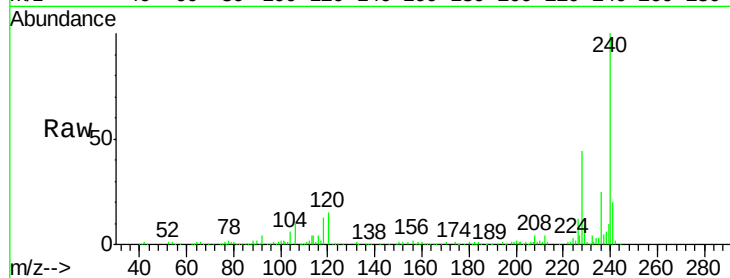
Tot Ion:240 Resp: 168638

Ion Ratio Lower Upper

240 100

120 15.4 6.8 10.2#

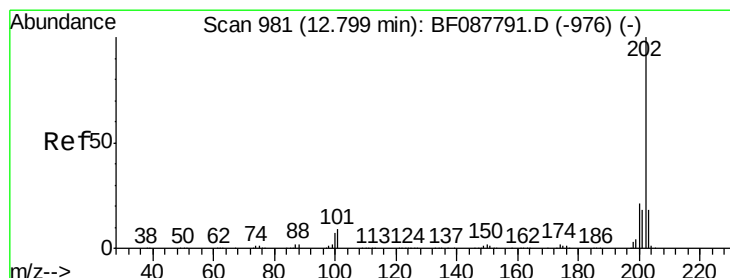
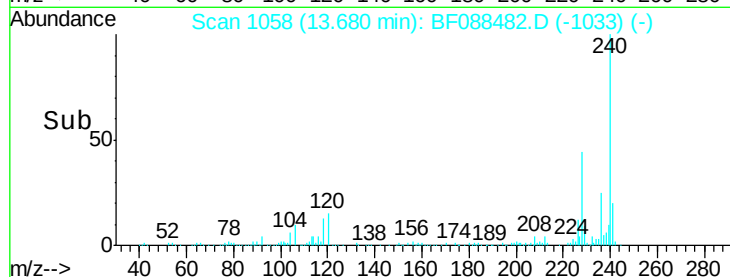
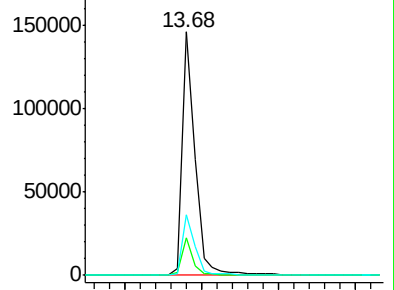
236 25.0 20.2 30.2



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: 39.62 ng

RT: 12.49 min Scan# 954

Delta R.T. 0.00 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

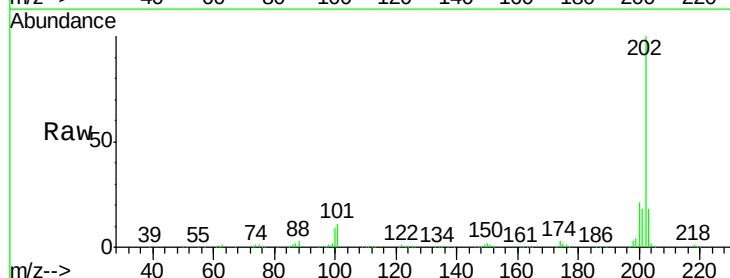
Tgt Ion:202 Resp: 495799

Ion Ratio Lower Upper

202 100

200 21.5 17.4 26.2

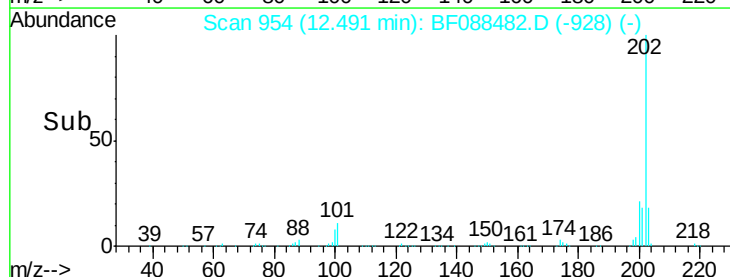
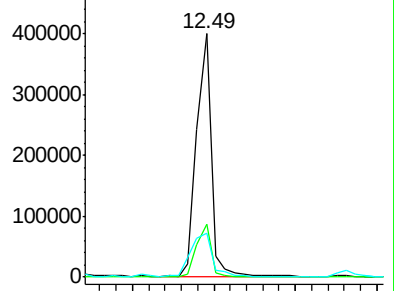
203 18.0 14.5 21.7

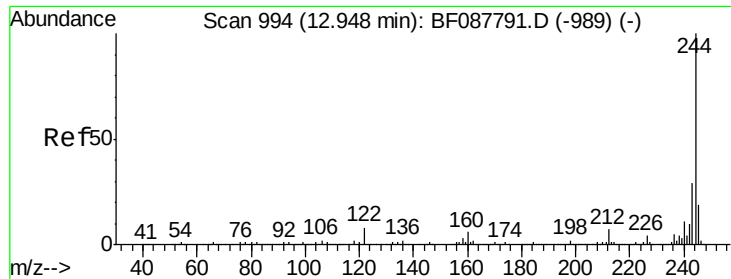


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

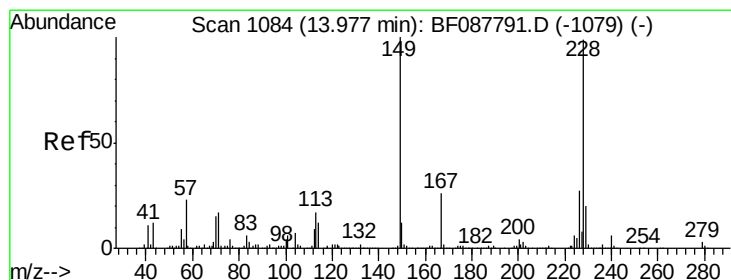
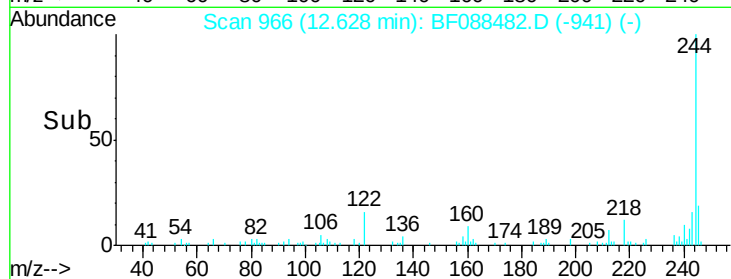
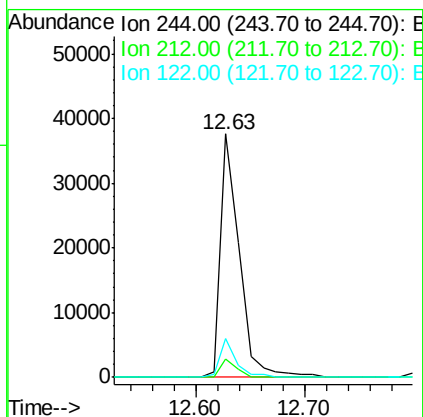
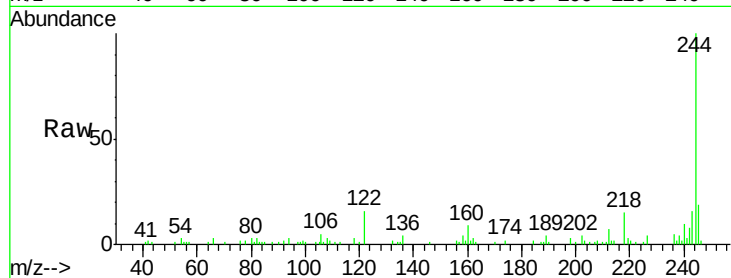




#78
 Terphenyl-d14
 Concen: 6.14 ng
 RT: 12.63 min Scan# 966
 Delta R.T. -0.01 min
 Lab File: BF088482.D
 Acq: 28 Jun 2016 7:31

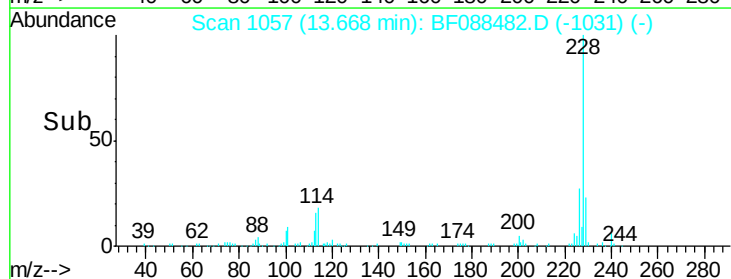
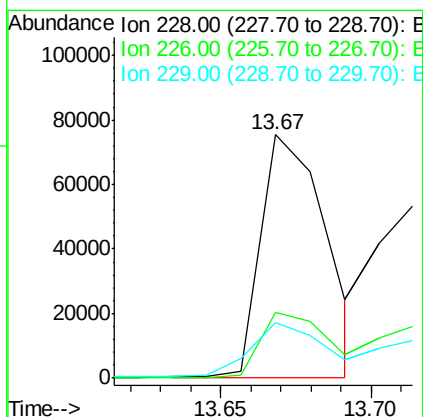
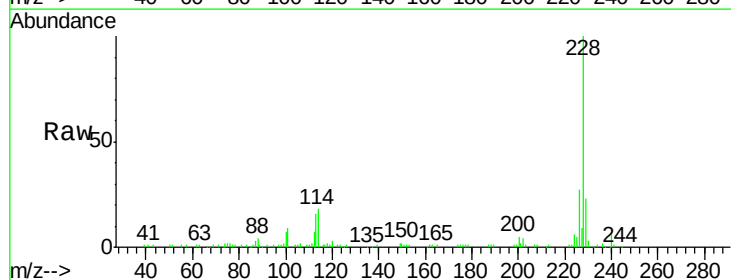
Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL

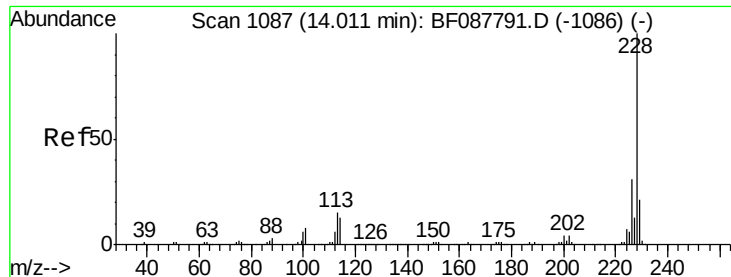
Tot Ion:244 Resp: 45523
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.0 9.0
 122 15.9 11.2 16.8



#80
 Benzo(a)anthracene
 Concen: 11.87 ng m
 RT: 13.67 min Scan# 1057
 Delta R.T. 0.00 min
 Lab File: BF088482.D
 Acq: 28 Jun 2016 7:31

Tgt Ion:228 Resp: 114053
 Ion Ratio Lower Upper
 228 100
 226 26.9 22.3 33.5
 229 23.0 16.0 24.0

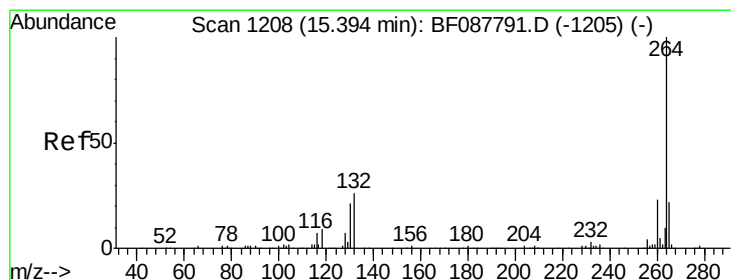
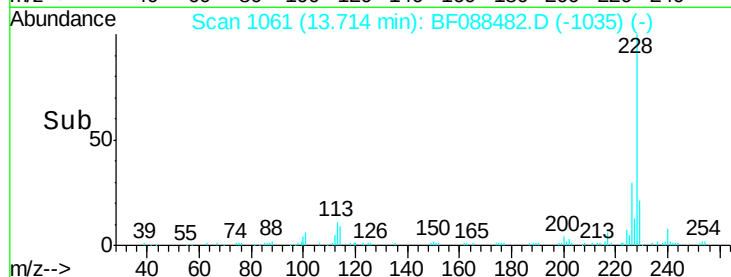
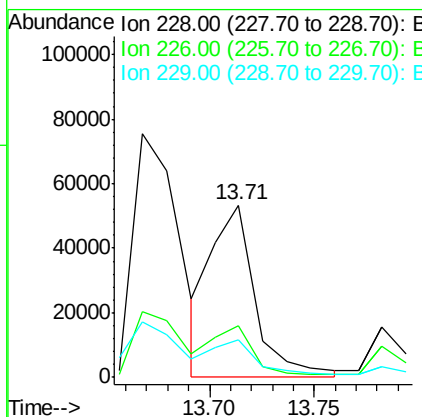
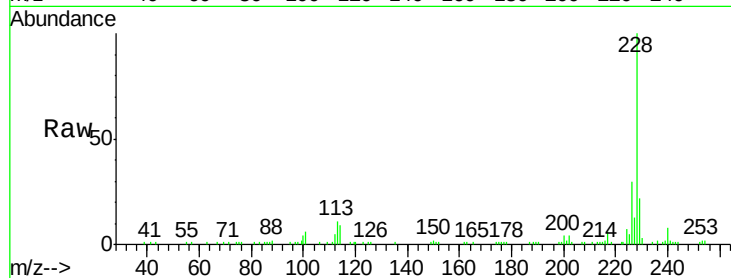




#82
Chrysene
Concen: 8.83 ng/ml
RT: 13.71 min Scan# 1061
Delta R.T. 0.00 min
Lab File: BF088482.D
Acq: 28 Jun 2016 7:31

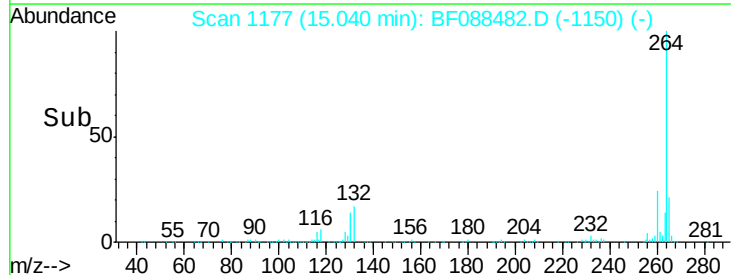
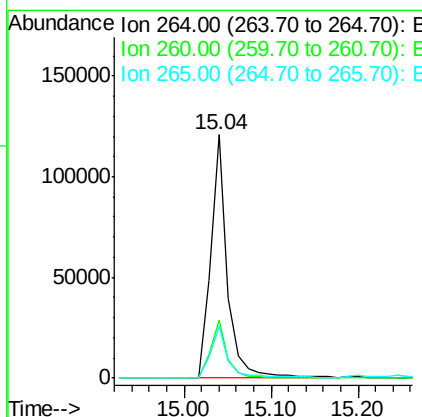
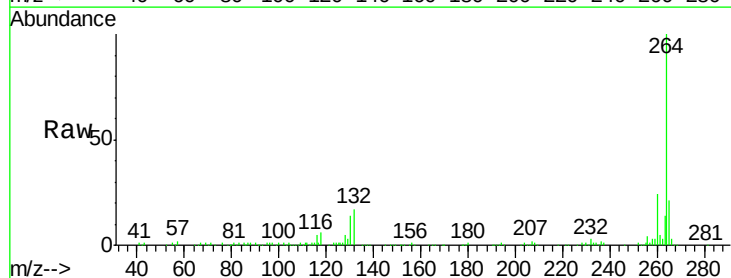
Instrument :
BNA_F
ClientSampleID :
Q8-B4(0-2)CDL

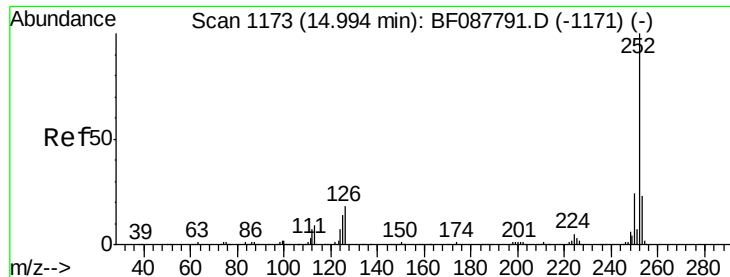
Tot Ion:228 Resp: 79791
Ion Ratio Lower Upper
228 100
226 29.8 25.4 38.2
229 22.1 16.3 24.5



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.04 min Scan# 1177
Delta R.T. 0.01 min
Lab File: BF088482.D
Acq: 28 Jun 2016 7:31

Tgt Ion:264 Resp: 161772
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 21.4 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 4.72 ng m

RT: 14.69 min Scan# 1146

Delta R.T. 0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

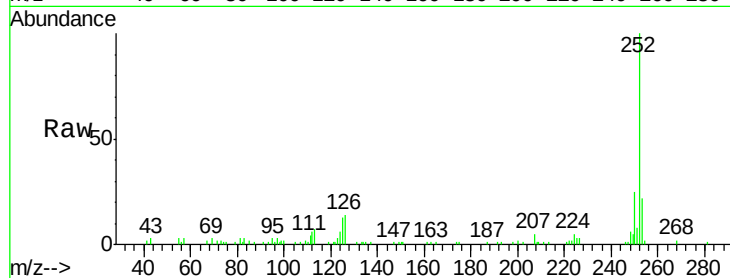
Tot Ion:252 Resp: 53193

Ion Ratio Lower Upper

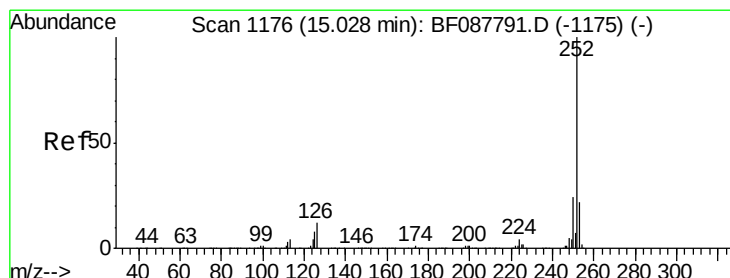
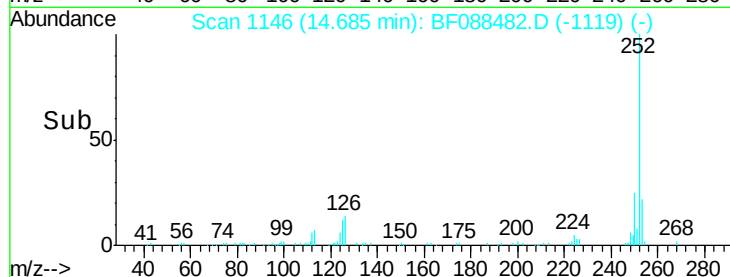
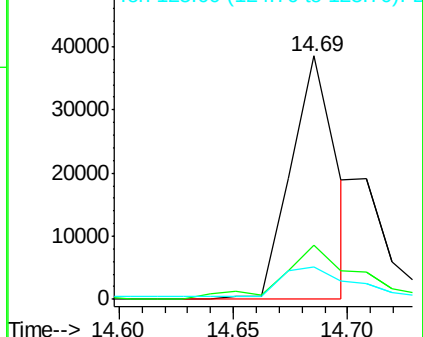
252 100

253 22.4 17.4 26.2

125 13.1 7.1 10.7#



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: 2.33 ng m

RT: 14.71 min Scan# 1148

Delta R.T. 0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

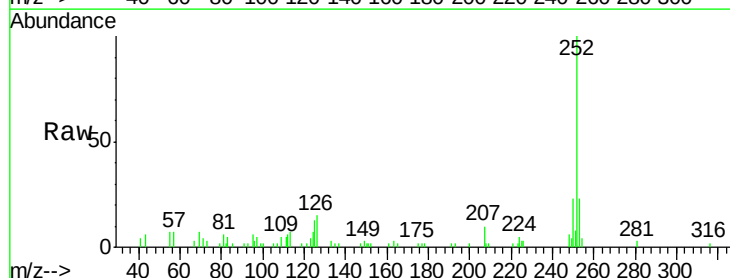
Tgt Ion:252 Resp: 19828

Ion Ratio Lower Upper

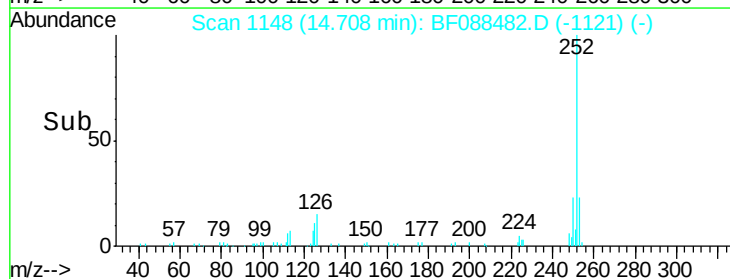
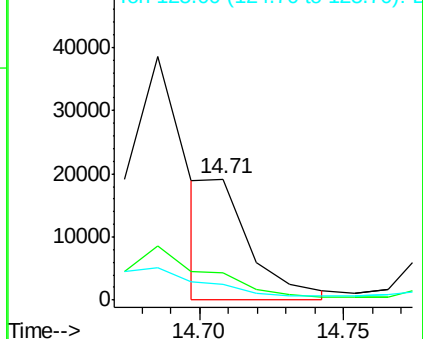
252 100

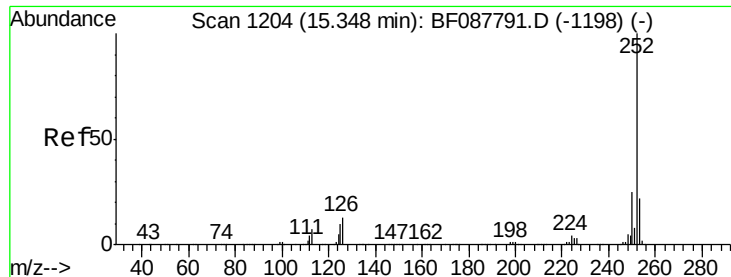
253 22.6 18.0 27.0

125 12.8 11.2 16.8



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





#89

Benzo(a)pyrene

Concen: 3.13 ng

RT: 14.99 min Scan# 1173

Delta R.T. 0.01 min

Lab File: BF088482.D

Acq: 28 Jun 2016 7:31

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL

Tot Ion: 252 Resp: 28597

Ion Ratio Lower Upper

252 100

253 23.7 17.9 26.9

125 13.8 12.5 18.7

