

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062816\
 Data File : BF088489.D
 Acq On : 28 Jun 2016 20:07
 Operator : UM/SJ
 Sample : H3602-07DL2 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

Quant Time: Jun 29 01:28:45 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	6.51	152	97401	20.00	ng	-0.03
21) Naphthalene-d8	7.80	136	426886	20.00	ng	-0.03
38) Acenaphthene-d10	9.55	164	198235	20.00	ng	-0.03
63) Phenanthrene-d10	11.03	188	341202	20.00	ng	-0.03
75) Chrysene-d12	13.66	240	261187	20.00	ng	-0.03
86) Perylene-d12	15.01	264	185162	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.16	112	11150	1.96	ng	0.03
7) Phenol-d6	6.23	99	21764	3.15	ng	0.00
23) Nitrobenzene-d5	7.13	82	12079	1.65	ng	0.00
41) 2,4,6-Tribromophenol	10.35	330	4063	1.94	ng	-0.02
44) 2-Fluorobiphenyl	8.89	172	23090	-3.97	ng	-0.03
78) Terphenyl-d14	12.62	244	19798	1.72	ng	-0.02

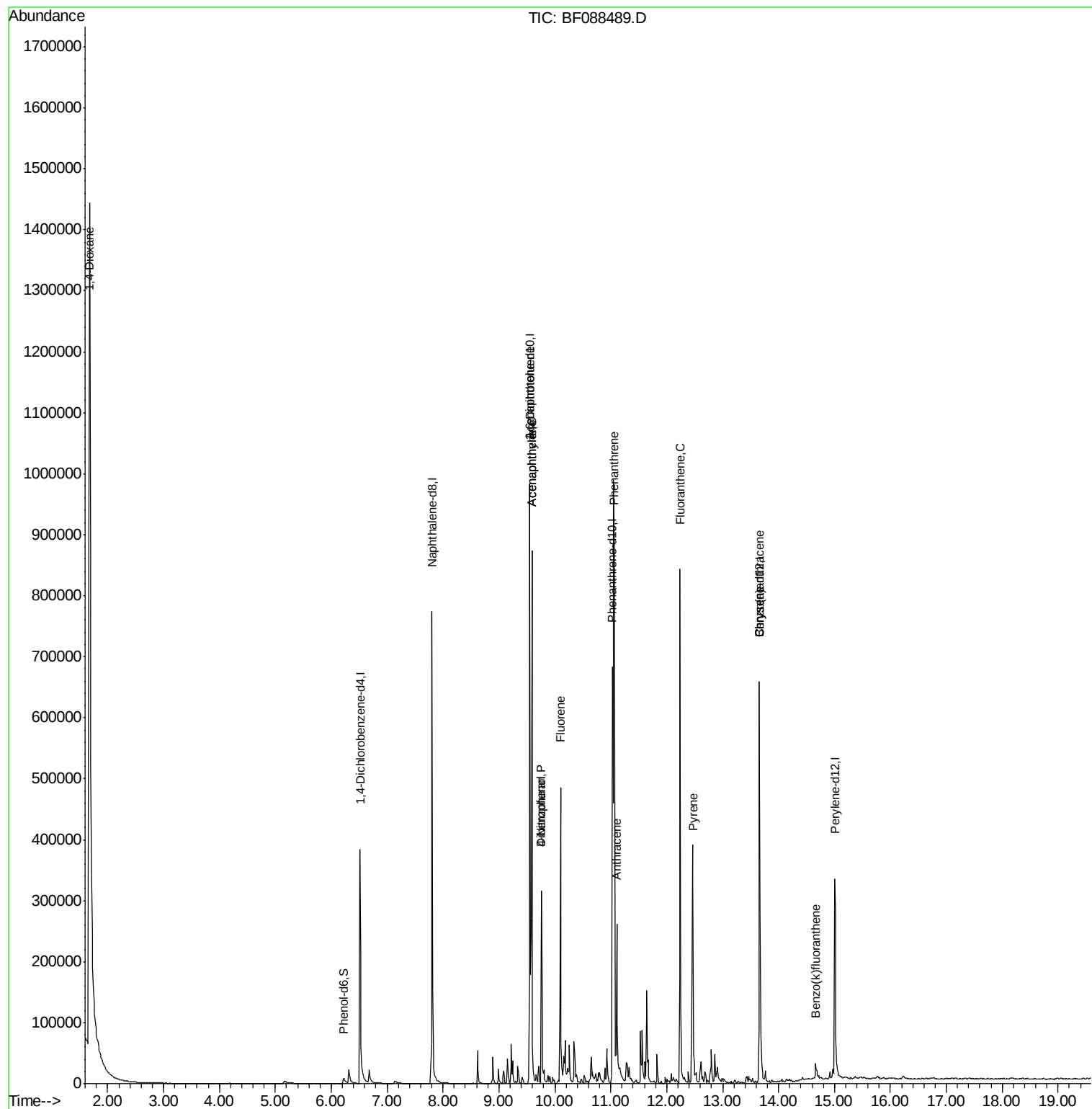
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.68	88	112092	40.49	ng	# 96
45) 1,1'-Biphenyl	8.99	154	15005	Below	Cal	93
48) Acenaphthylene	9.59	152	117239	5.75	ng	# 1
50) 2,6-Dinitrotoluene	9.55	165	26562	8.08	ng	# 40
51) Acenaphthene	9.59	154	218532	17.17	ng	99
54) Dibenzofuran	9.76	168	164231	9.37	ng	94
55) 4-Nitrophenol	9.76	139	57728	19.60	ng	# 6
57) Fluorene	10.10	166	170141	10.68	ng	98
70) Phenanthrene	11.06	178	593549	33.15	ng	97
71) Anthracene	11.11	178	148444	8.22	ng	97
74) Fluoranthene	12.24	202	371851	19.68	ng	97
77) Pyrene	12.47	202	230502	11.89	ng	99
80) Benzo(a)anthracene	13.66	228	46394	3.12	ng	95
82) Chrysene	13.66	228	46394	3.31	ng	# 91
88) Benzo(k)fluoranthene	14.66	252	20542	2.11	ng	99

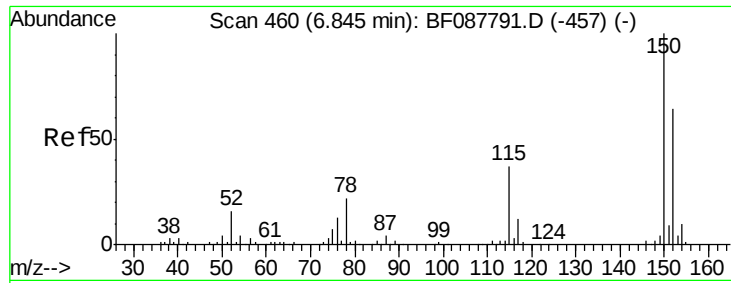
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.51 min Scan# 431

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

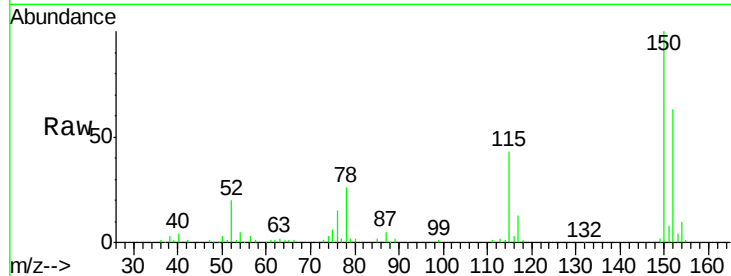
Tgt Ion:152 Resp: 97401

Ion Ratio Lower Upper

152 100

150 158.0 123.8 185.6

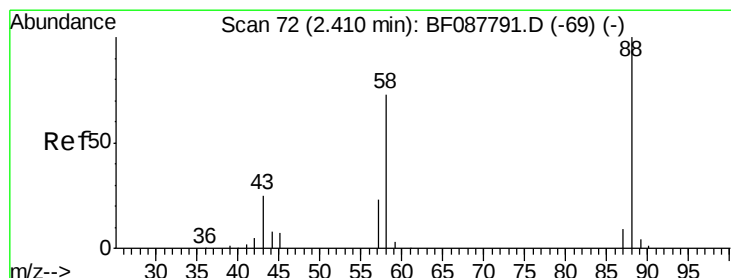
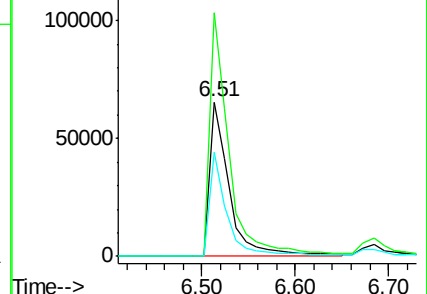
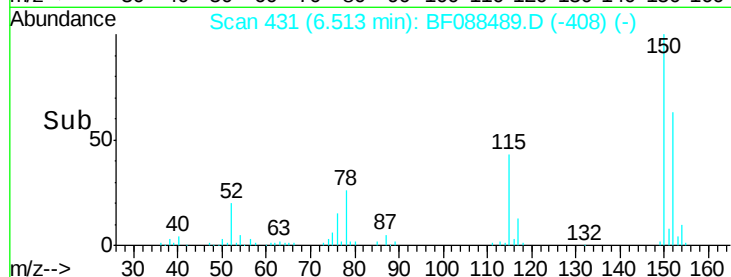
115 67.2 39.6 59.4#



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: 40.49 ng

RT: 1.68 min Scan# 8

Delta R.T. -0.26 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

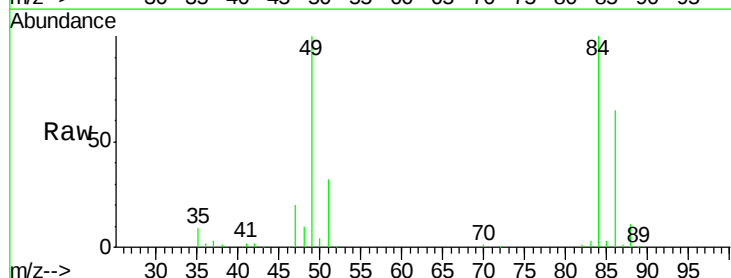
Tgt Ion: 88 Resp: 112092

Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

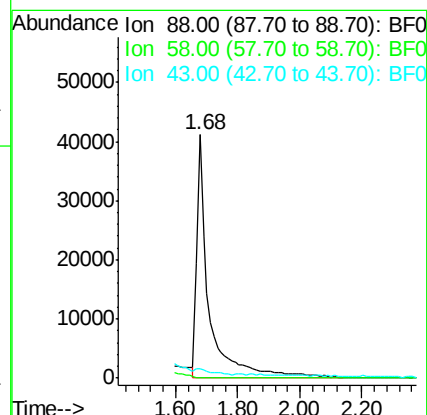
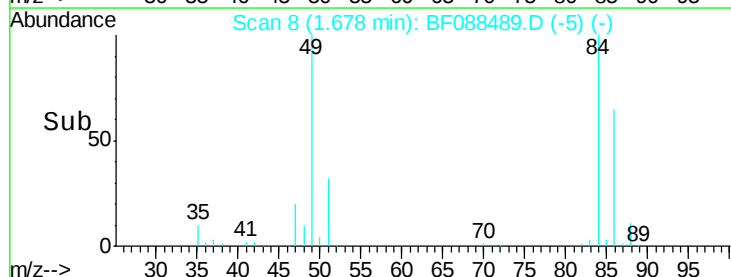
43 3.0 3.4 5.2#

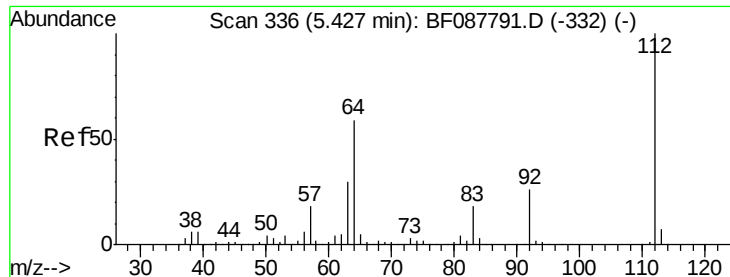


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 1.96 ng

RT: 5.16 min Scan# 313

Delta R.T. 0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

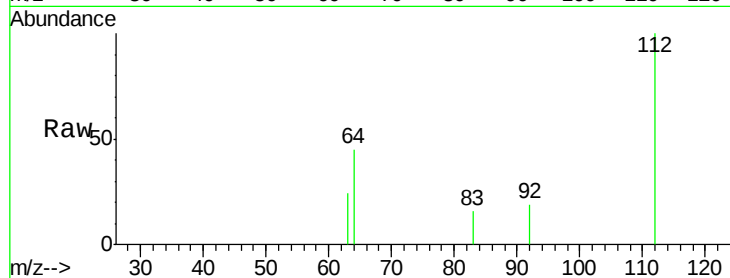
Tgt Ion: 112 Resp: 11150

Ion Ratio Lower Upper

112 100

64 44.9 42.2 63.2

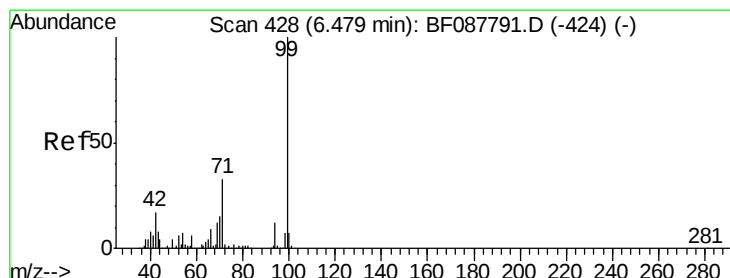
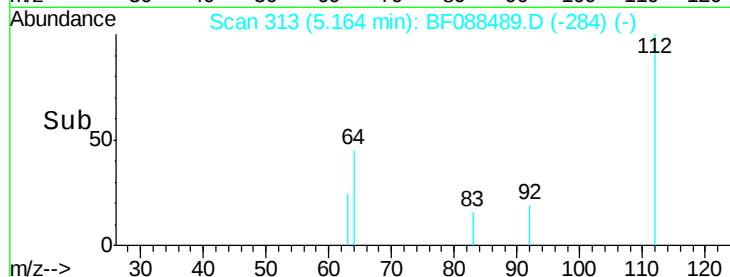
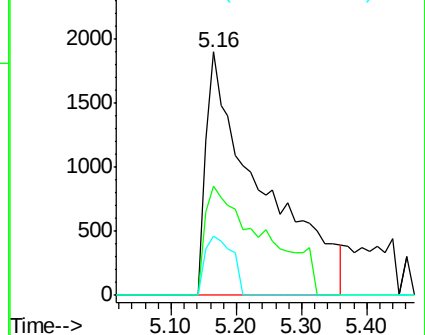
63 24.3 21.8 32.8



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: 3.15 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.00 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

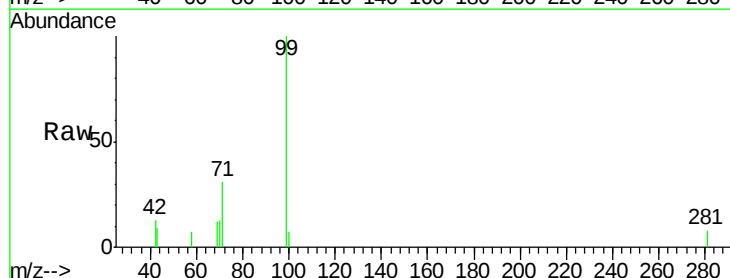
Tgt Ion: 99 Resp: 21764

Ion Ratio Lower Upper

99 100

42 13.1 12.2 18.2

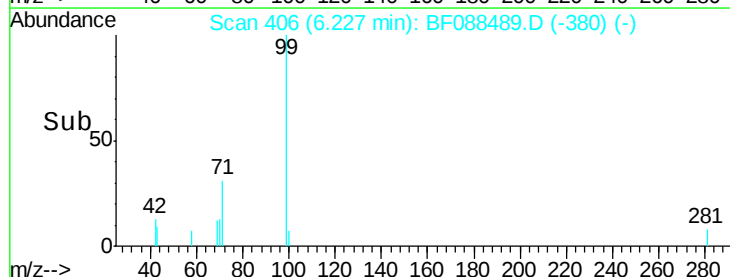
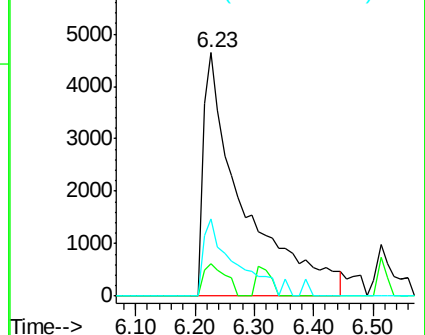
71 31.5 23.4 35.0



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: 7.80 min Scan# 544

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

Tgt Ion:136 Resp: 426886

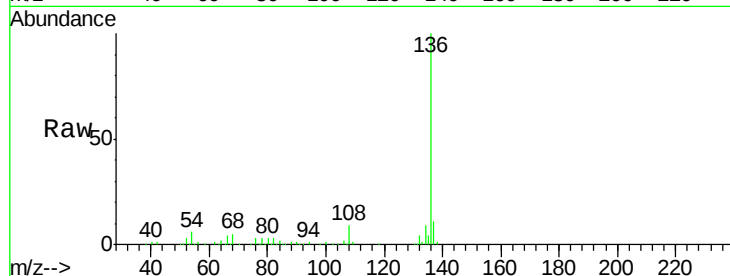
Ion Ratio Lower Upper

136 100

137 11.0 9.1 13.7

54 5.9 6.6 10.0#

68 5.2 5.1 7.7

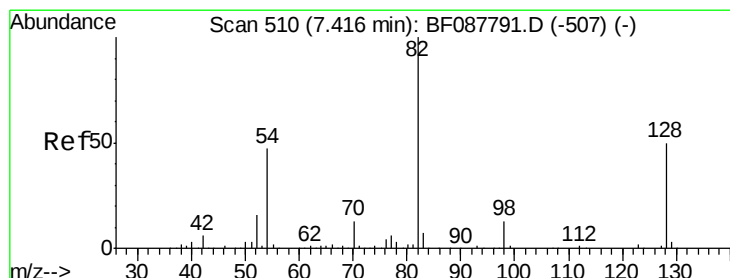
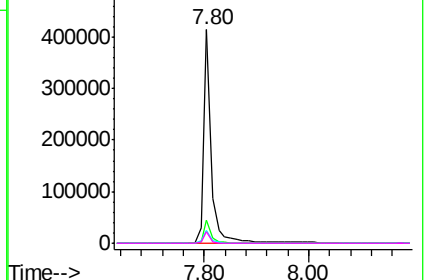
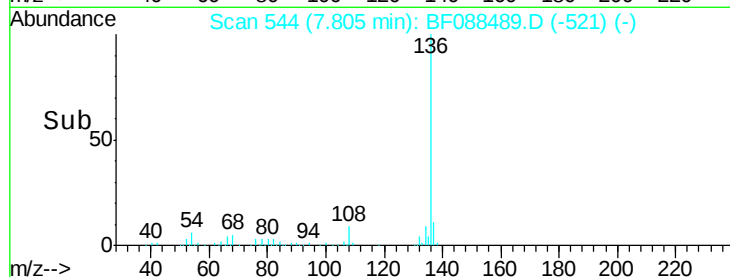


Abundance Ion 136.00 (135.70 to 136.70): E

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: 1.65 ng

RT: 7.13 min Scan# 485

Delta R.T. -0.00 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

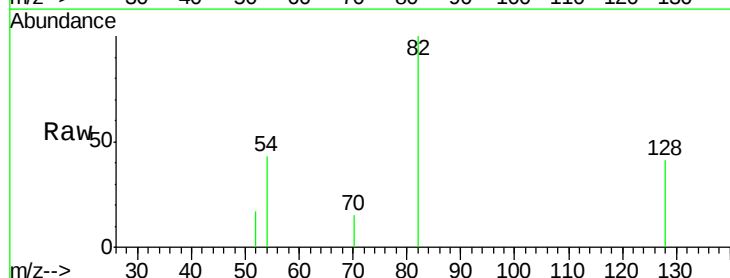
Tgt Ion: 82 Resp: 12079

Ion Ratio Lower Upper

82 100

128 41.4 35.9 53.9

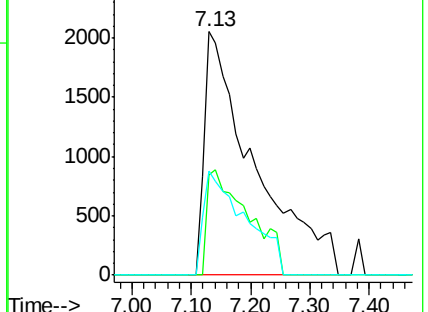
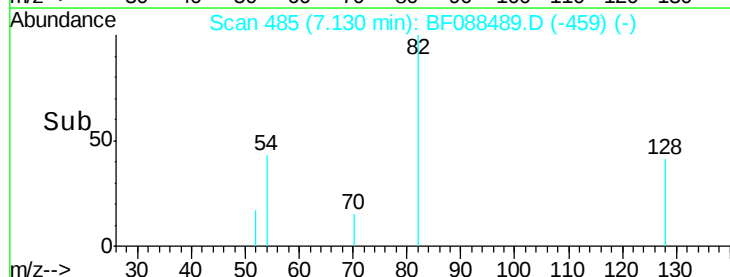
54 42.9 40.9 61.3

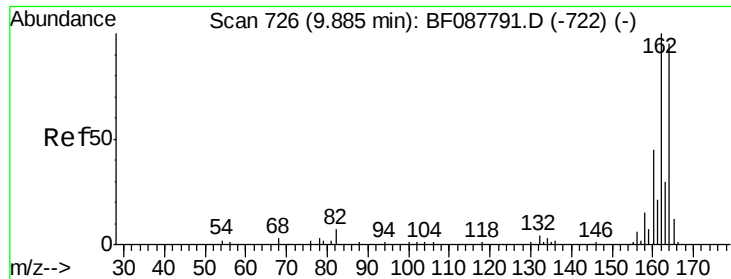


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

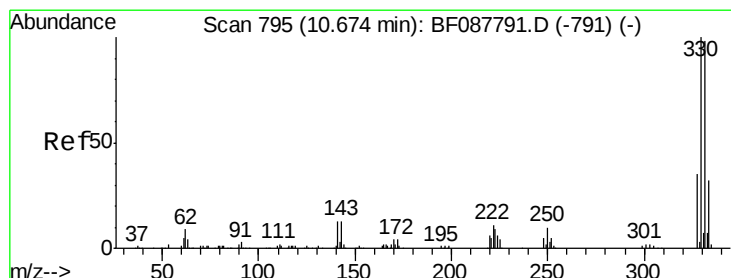
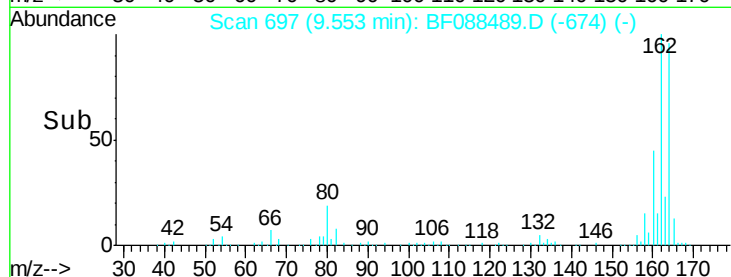
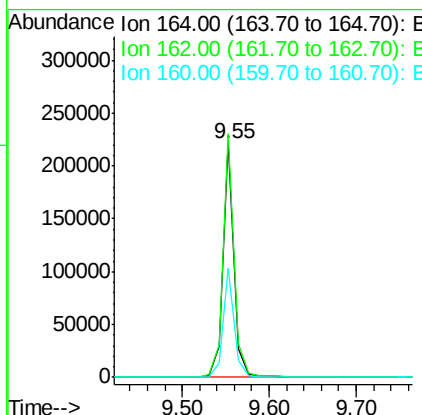
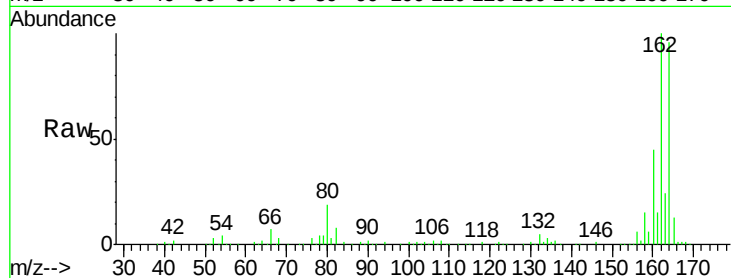




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.03 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

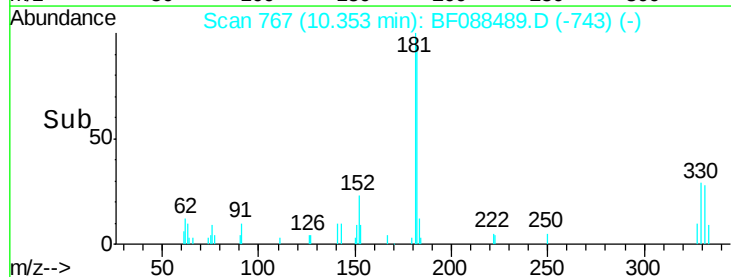
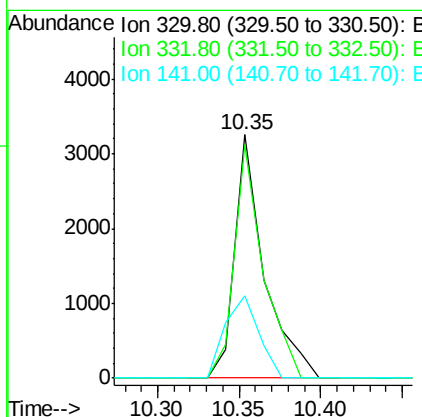
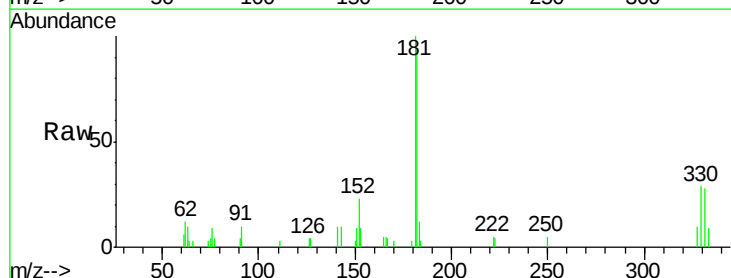
Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

Tgt Ion:164 Resp: 198235
 Ion Ratio Lower Upper
 164 100
 162 103.8 85.4 128.2
 160 46.6 39.5 59.3



#41
 2,4,6-Tribromophenol
 Concen: 1.94 ng
 RT: 10.35 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion:330 Resp: 4063
 Ion Ratio Lower Upper
 330 100
 332 93.1 0.0 0.0#
 141 38.7 0.0 0.0#

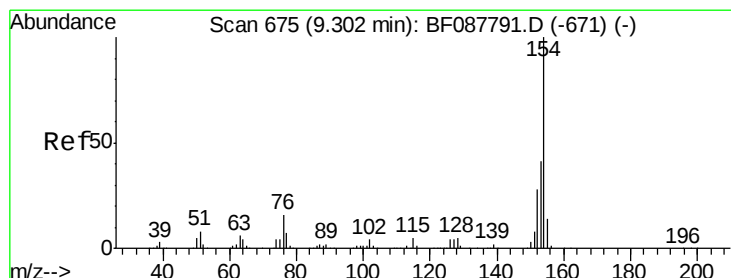
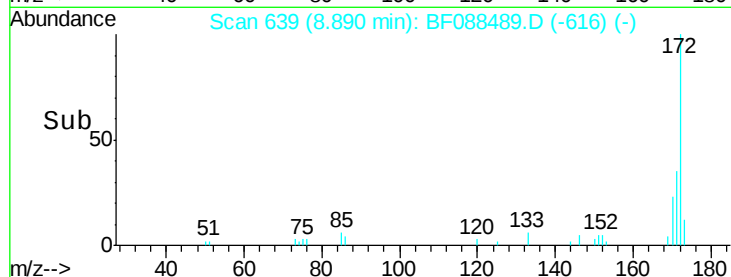
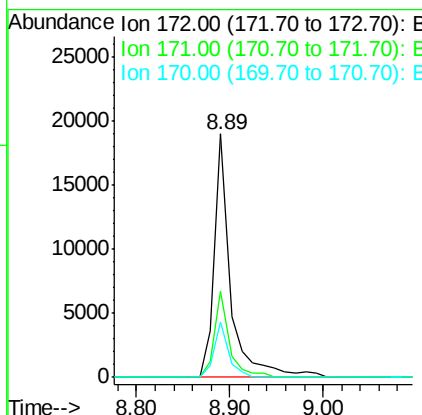
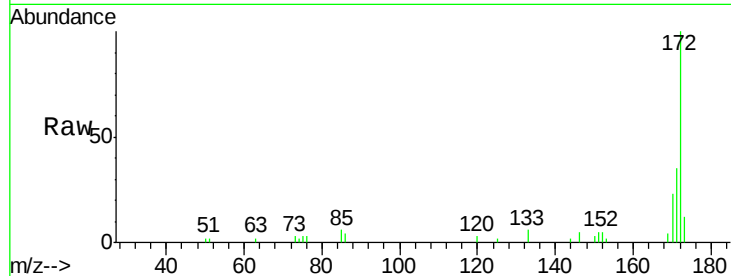




#44
 2-Fluorobiphenyl
 Concen: -3.97 ng
 RT: 8.89 min Scan# 639
 Delta R.T. -0.03 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

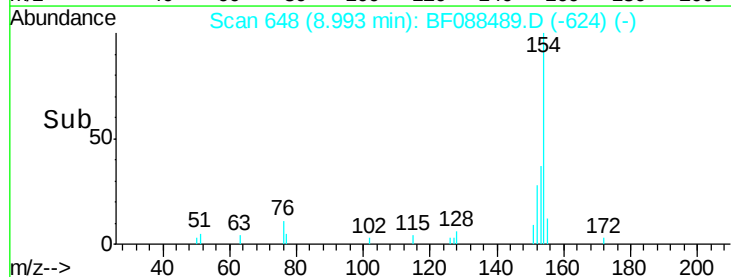
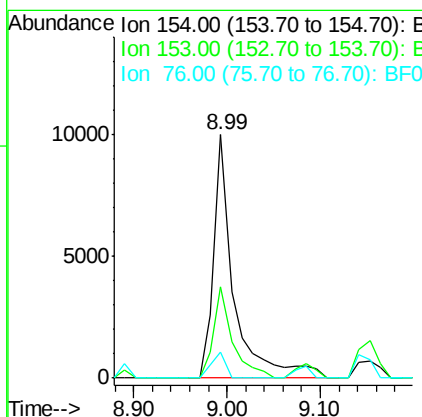
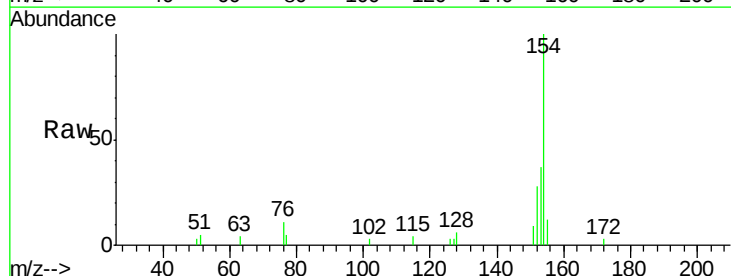
Instrument :
 BNA_F
 ClientSampleId :
 Q8-B4(0-2)CDL2

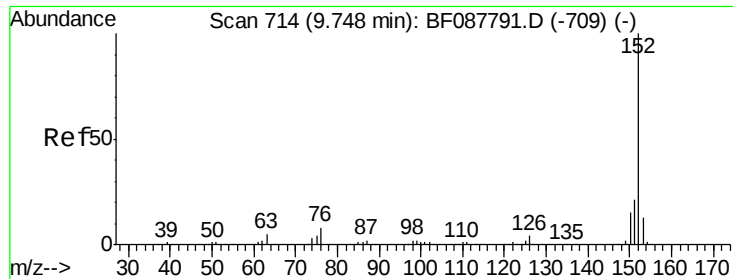
Tgt Ion:172 Resp: 23090
 Ion Ratio Lower Upper
 172 100
 171 35.2 28.6 43.0
 170 22.6 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 8.99 min Scan# 648
 Delta R.T. -0.02 min
 Lab File: BF088489.D
 Acq: 28 Jun 2016 20:07

Tgt Ion:154 Resp: 15005
 Ion Ratio Lower Upper
 154 100
 153 37.5 20.6 60.6
 76 10.7 0.0 35.1





#48

Acenaphthylene

Concen: 5.75 ng

RT: 9.59 min Scan# 700

Delta R.T. 0.14 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

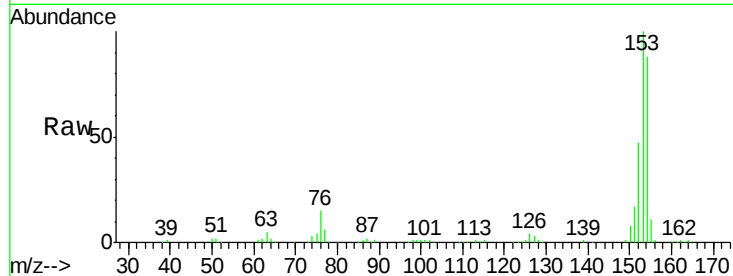
Tgt Ion:152 Resp: 117239

Ion Ratio Lower Upper

152 100

151 36.8 16.2 24.4#

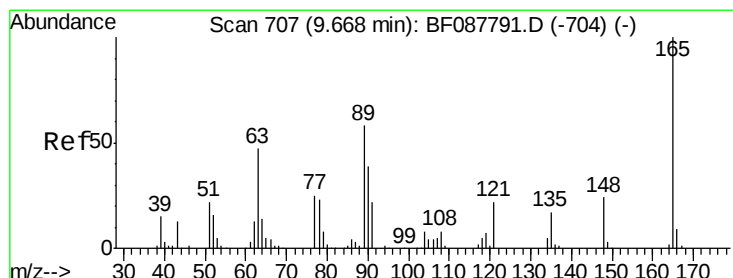
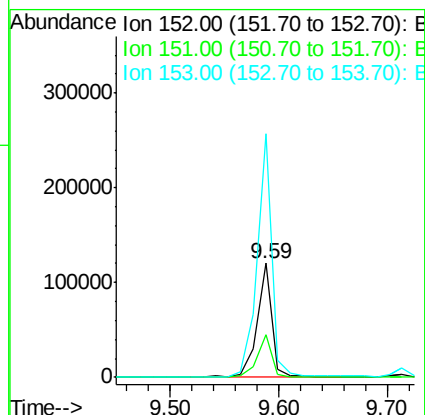
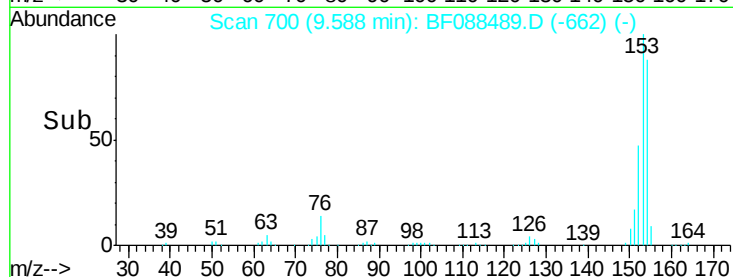
153 213.4 11.0 16.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.08 ng

RT: 9.55 min Scan# 697

Delta R.T. 0.16 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

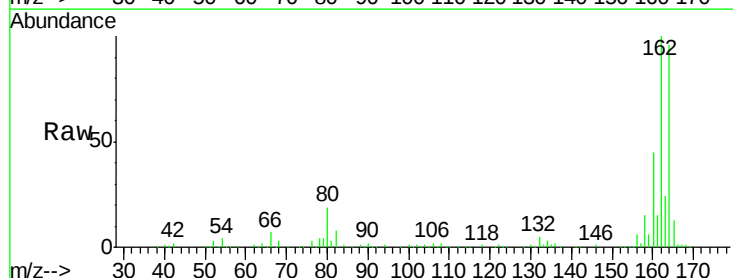
Tgt Ion:165 Resp: 26562

Ion Ratio Lower Upper

165 100

63 1.9 28.1 42.1#

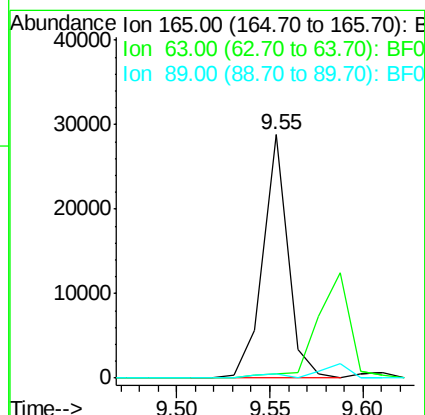
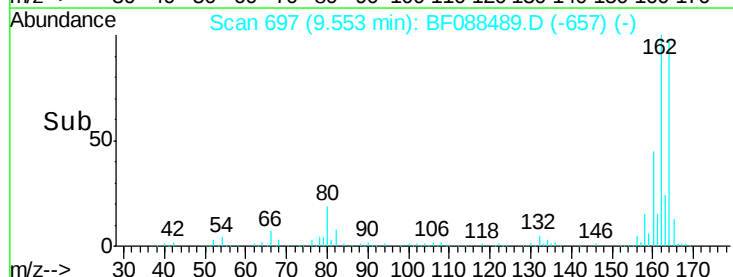
89 1.9 32.2 48.2#

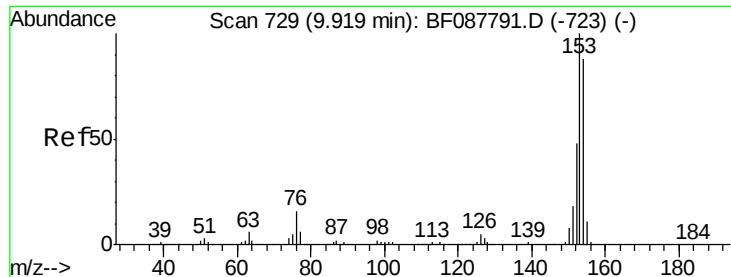


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 17.17 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

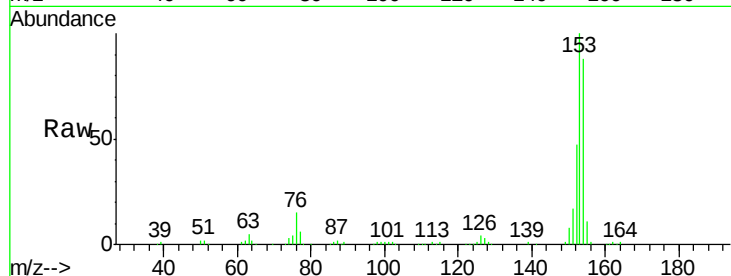
Tgt Ion:154 Resp: 218532

Ion Ratio Lower Upper

154 100

153 113.4 89.5 134.3

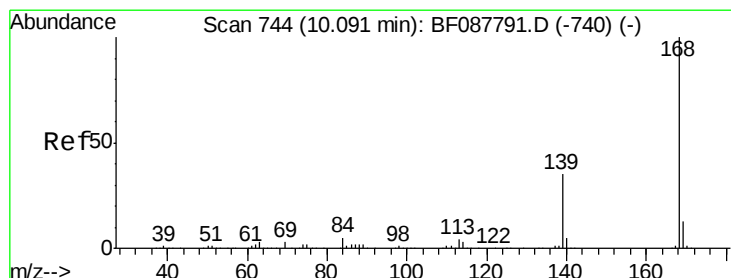
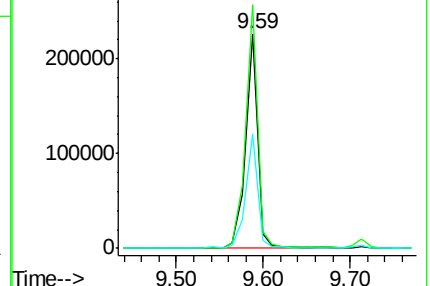
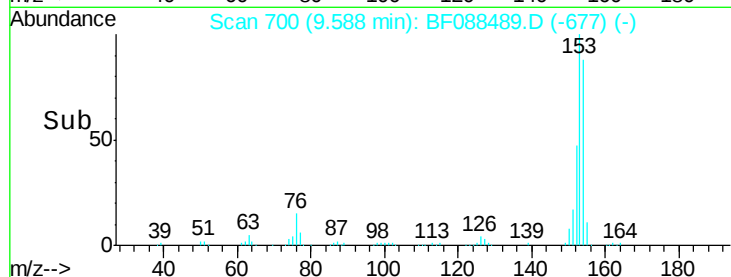
152 53.1 42.7 64.1



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

Dibenzofuran

Concen: 9.37 ng

RT: 9.76 min Scan# 715

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

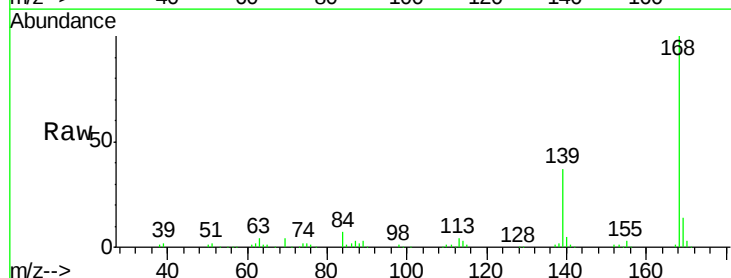
Tgt Ion:168 Resp: 164231

Ion Ratio Lower Upper

168 100

139 37.5 26.4 39.6

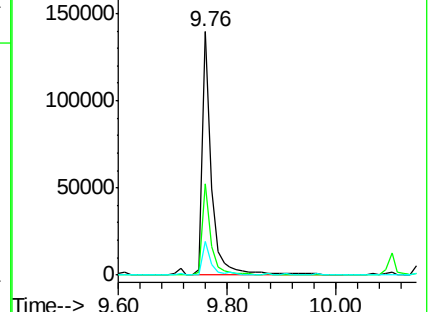
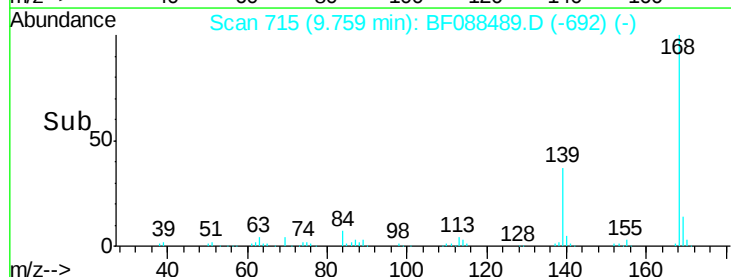
169 13.6 10.4 15.6

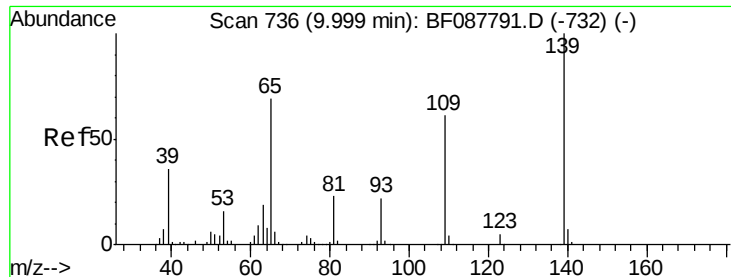


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 19.60 ng

RT: 9.76 min Scan# 715

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

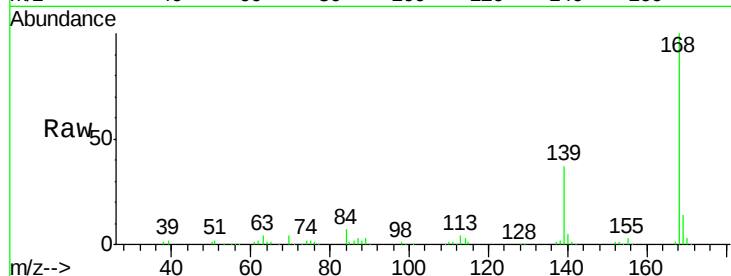
Tgt Ion:139 Resp: 57728

Ion Ratio Lower Upper

139 100

109 0.9 48.9 88.9#

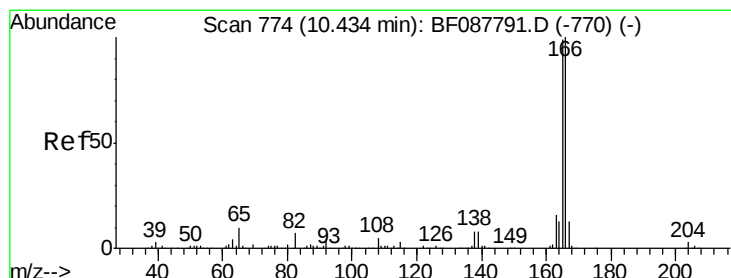
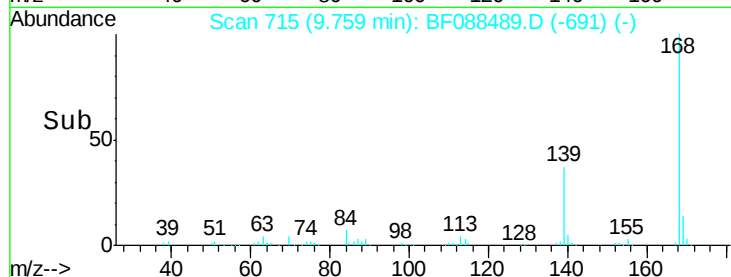
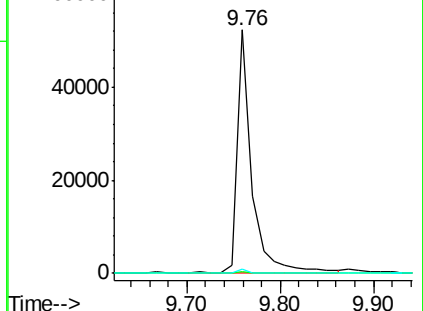
65 1.6 84.9 124.9#



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): E



#57

Fluorene

Concen: 10.68 ng

RT: 10.10 min Scan# 745

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

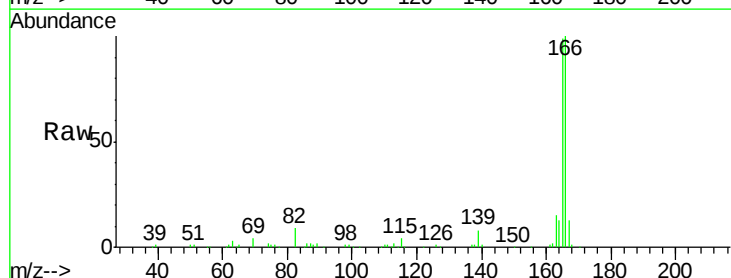
Tgt Ion:166 Resp: 170141

Ion Ratio Lower Upper

166 100

165 99.1 77.8 116.8

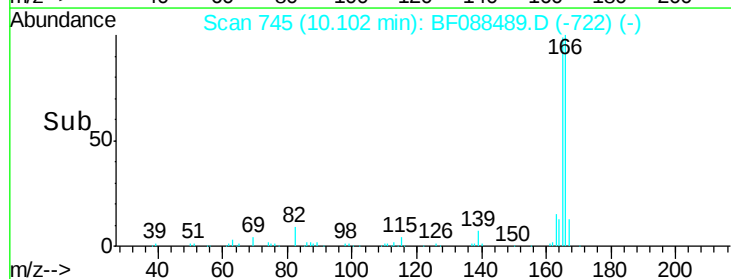
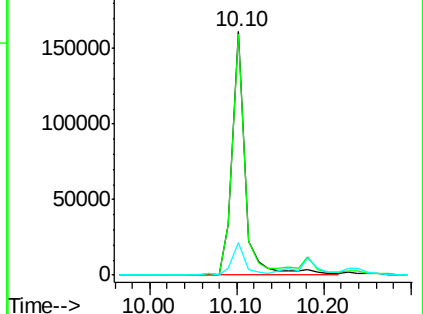
167 13.2 11.2 16.8

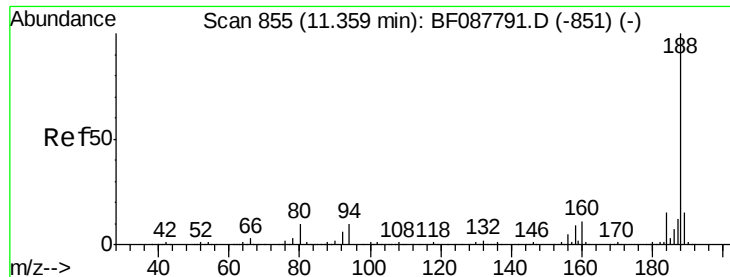


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

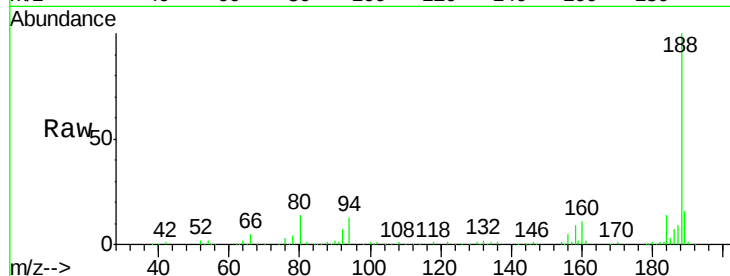




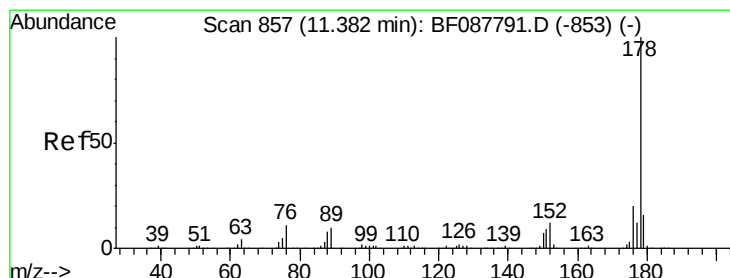
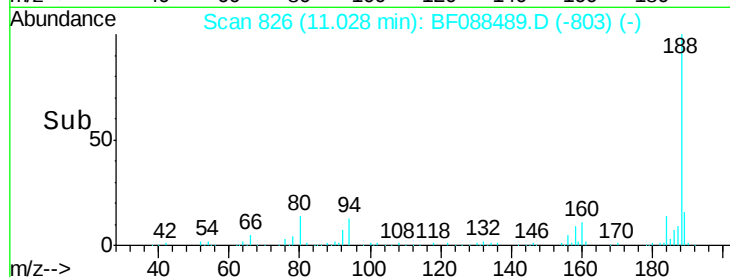
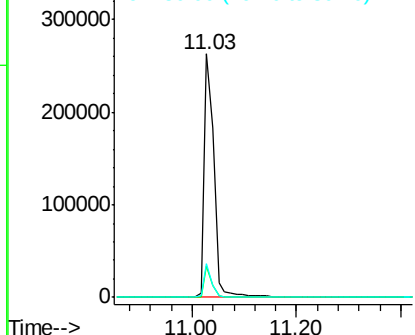
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.03 min Scan# 826
Delta R.T. -0.03 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Instrument :
BNA_F
ClientSampleId :
Q8-B4(0-2)CDL2

Tgt Ion:188 Resp: 341202
Ion Ratio Lower Upper
188 100
94 12.7 9.0 13.6
80 13.6 10.0 15.0

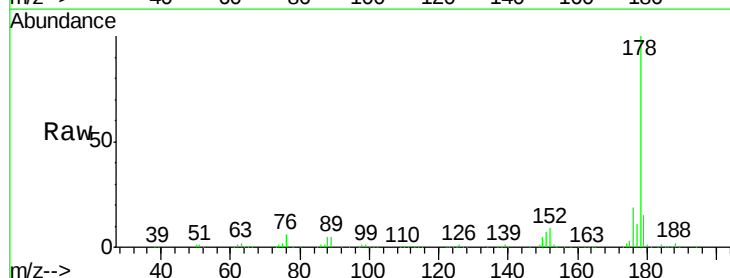


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

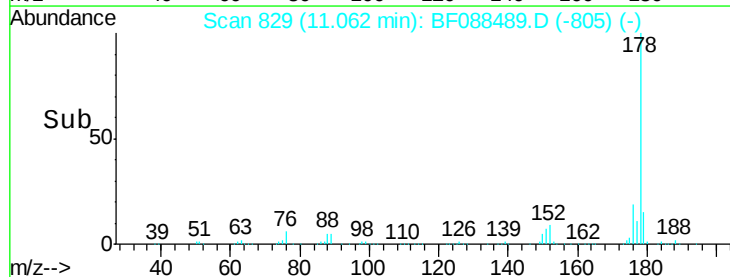
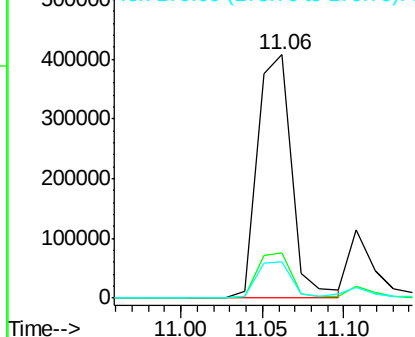


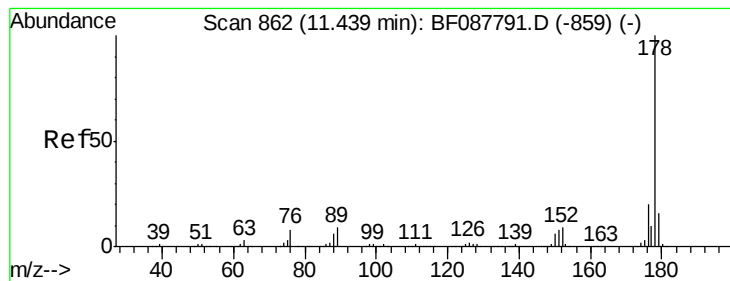
#70
Phenanthrene
Concen: 33.15 ng
RT: 11.06 min Scan# 829
Delta R.T. -0.02 min
Lab File: BF088489.D
Acq: 28 Jun 2016 20:07

Tgt Ion:178 Resp: 593549
Ion Ratio Lower Upper
178 100
176 18.6 15.8 23.6
179 14.8 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: 8.22 ng

RT: 11.11 min Scan# 833

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

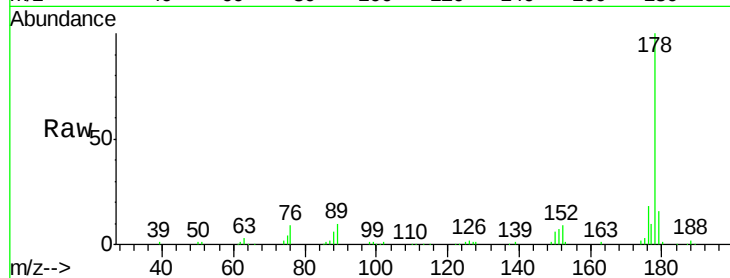
Tgt Ion:178 Resp: 148444

Ion Ratio Lower Upper

178 100

176 17.8 15.6 23.4

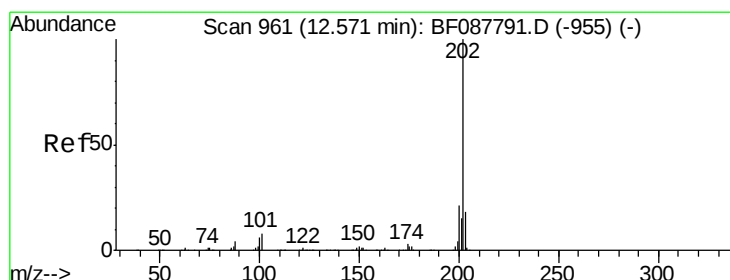
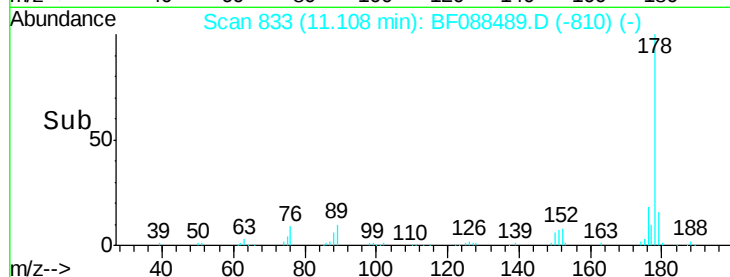
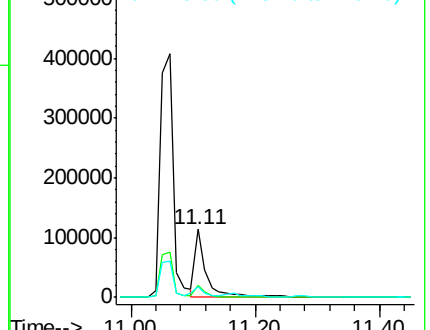
179 16.5 12.8 19.2



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



#74

Fluoranthene

Concen: 19.68 ng

RT: 12.24 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

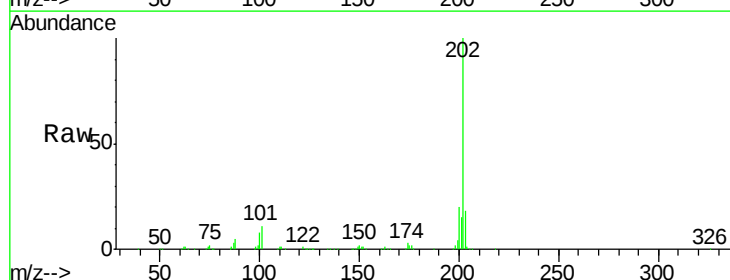
Tgt Ion:202 Resp: 371851

Ion Ratio Lower Upper

202 100

101 10.8 0.0 33.1

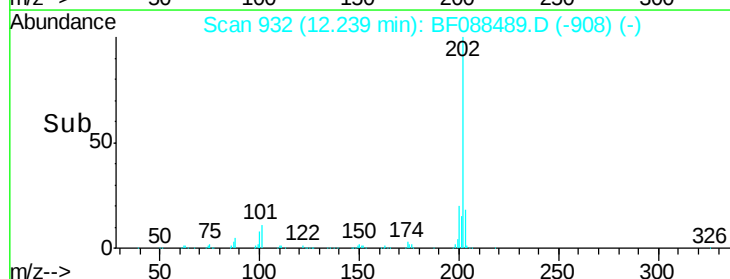
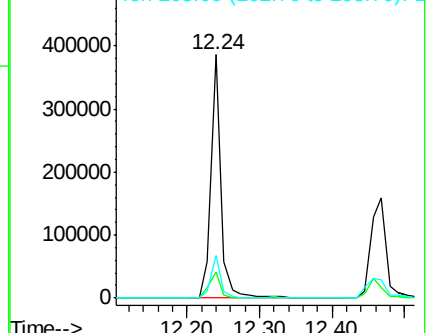
203 17.6 0.0 38.1

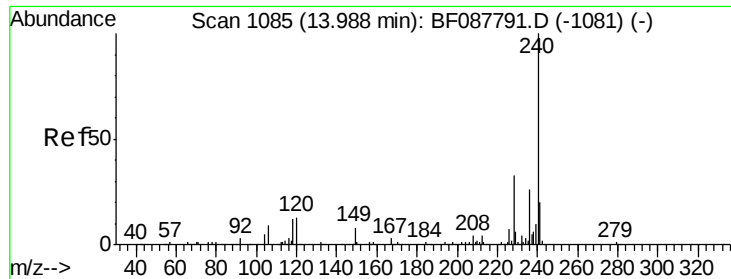


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.66 min Scan# 1056

Delta R.T. -0.03 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

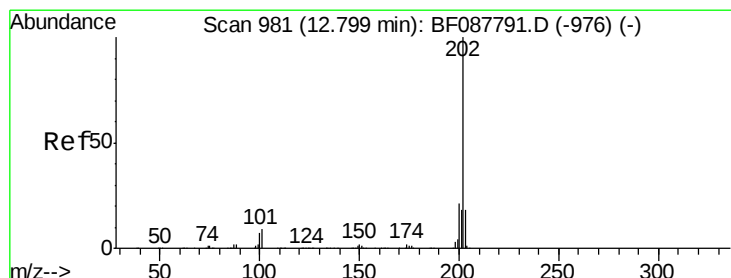
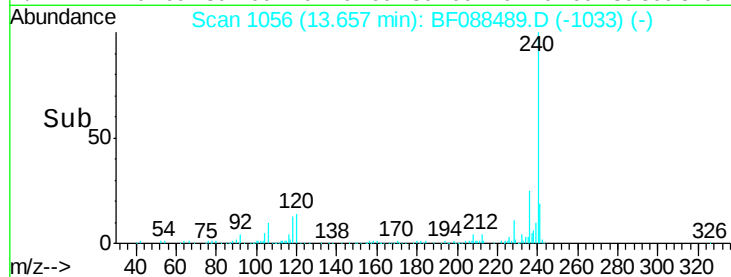
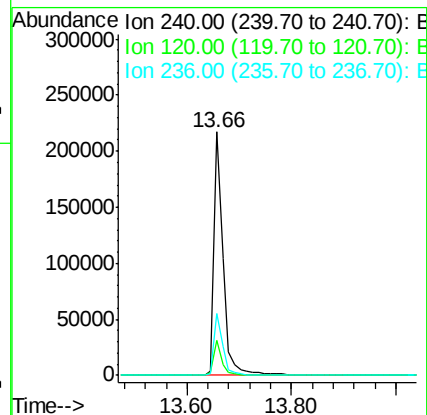
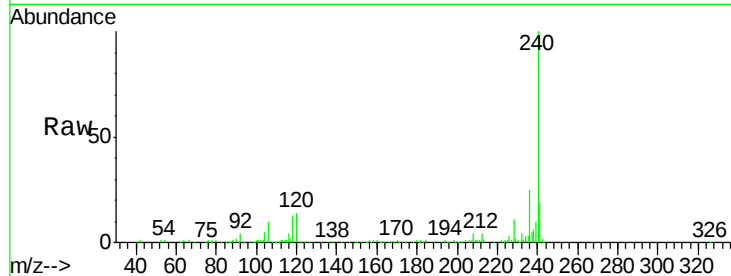
Tgt Ion:240 Resp: 261187

Ion Ratio Lower Upper

240 100

120 14.4 6.8 10.2#

236 25.3 20.2 30.2



#77

Pyrene

Concen: 11.89 ng

RT: 12.47 min Scan# 952

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

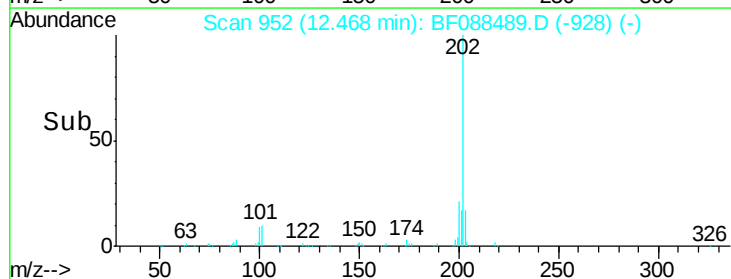
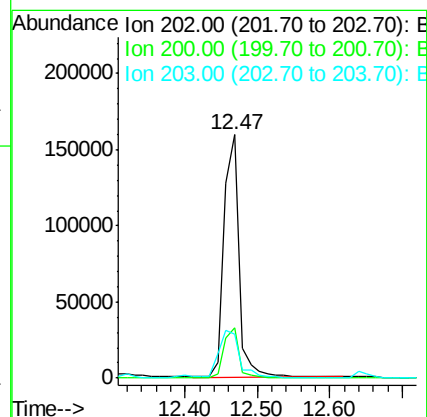
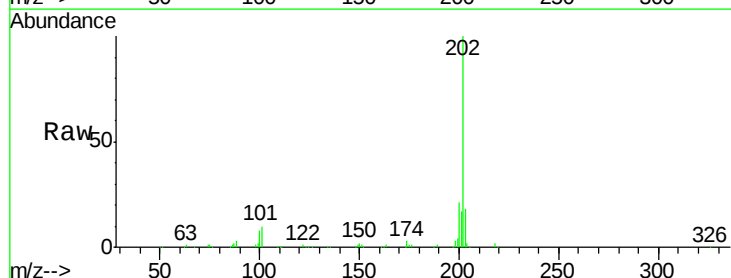
Tgt Ion:202 Resp: 230502

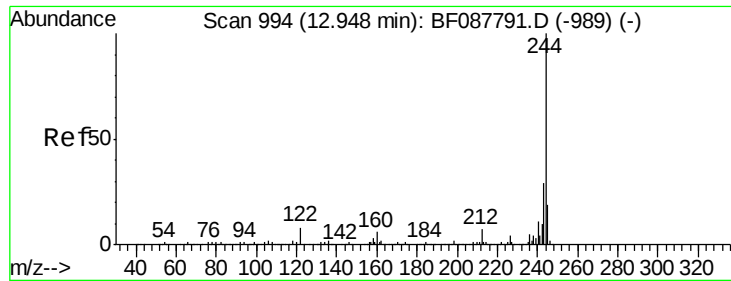
Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

203 17.9 14.5 21.7





#78

Terphenyl-d14

Concen: 1.72 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

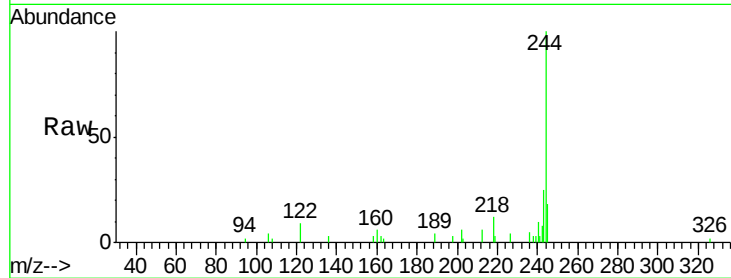
Tgt Ion:244 Resp: 19798

Ion Ratio Lower Upper

244 100

212 5.9 6.0 9.0#

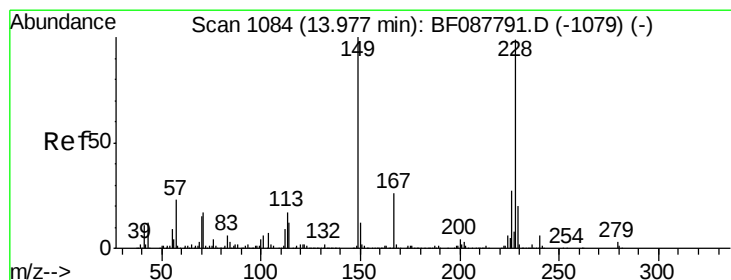
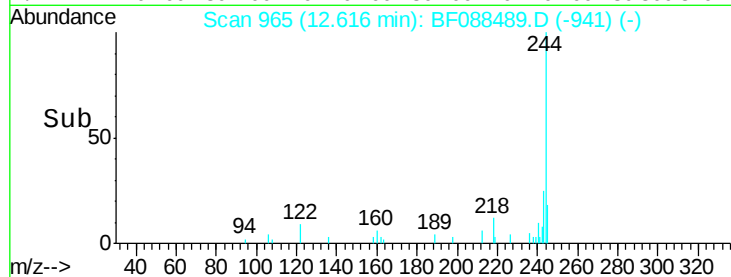
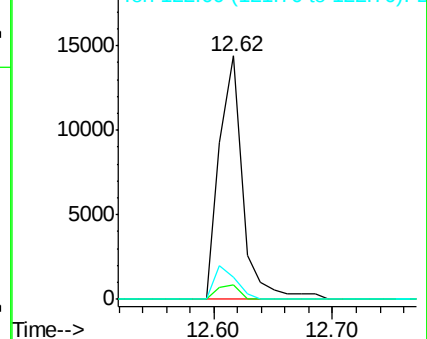
122 8.9 11.2 16.8#



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: 3.12 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.01 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

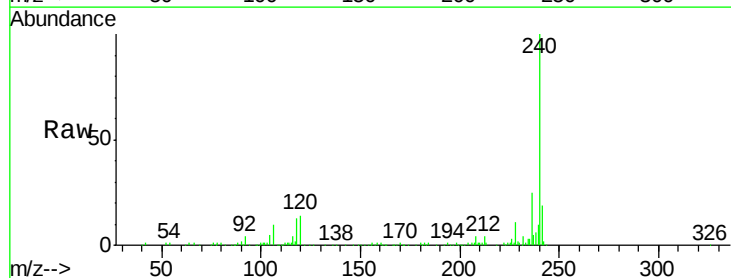
Tgt Ion:228 Resp: 46394

Ion Ratio Lower Upper

228 100

226 25.1 22.3 33.5

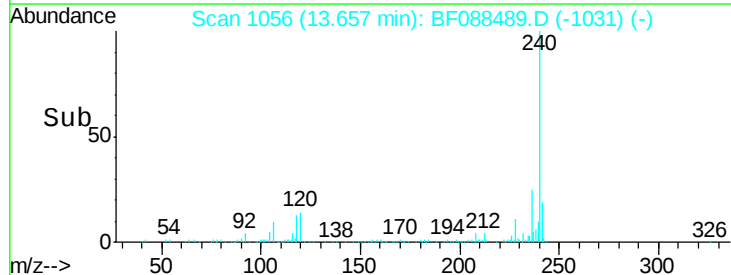
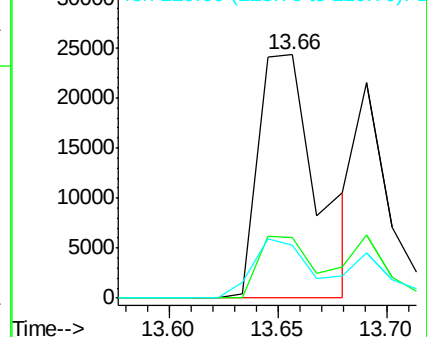
229 21.9 16.0 24.0

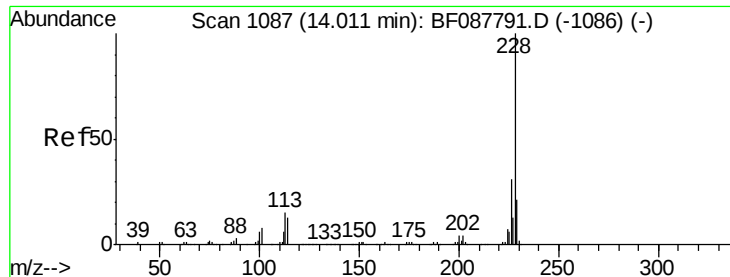


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.31 ng

RT: 13.66 min Scan# 1056

Delta R.T. -0.06 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2

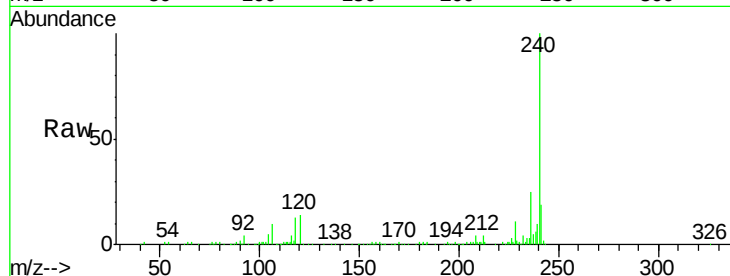
Tgt Ion:228 Resp: 46394

Ion Ratio Lower Upper

228 100

226 25.1 25.4 38.2#

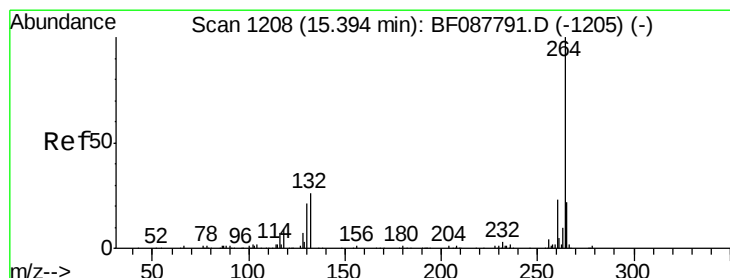
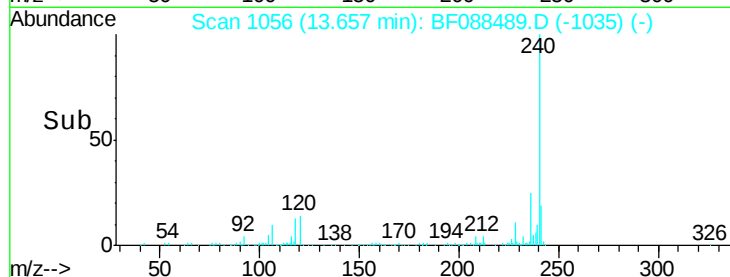
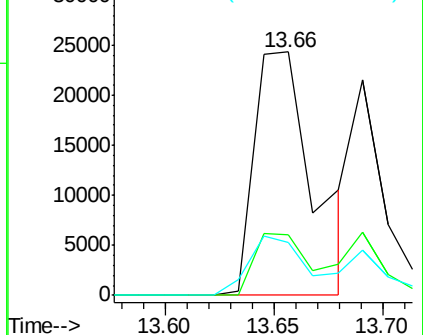
229 21.9 16.3 24.5



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.01 min Scan# 1174

Delta R.T. -0.02 min

Lab File: BF088489.D

Acq: 28 Jun 2016 20:07

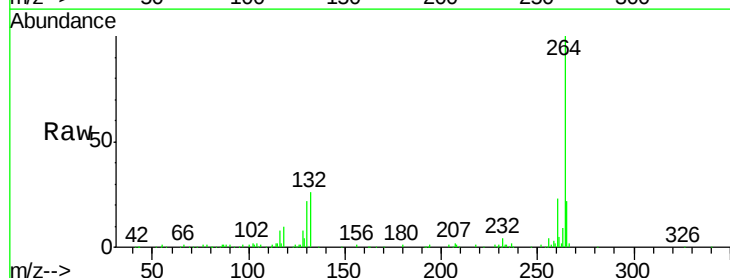
Tgt Ion:264 Resp: 185162

Ion Ratio Lower Upper

264 100

260 22.8 19.2 28.8

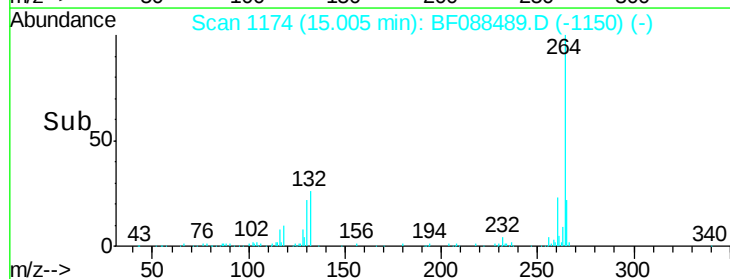
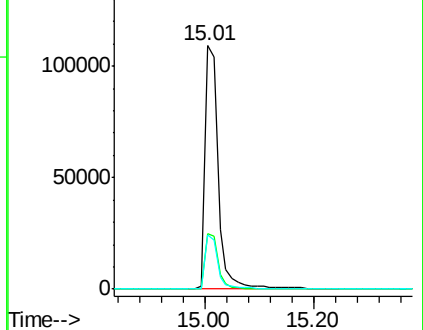
265 22.2 16.9 25.3

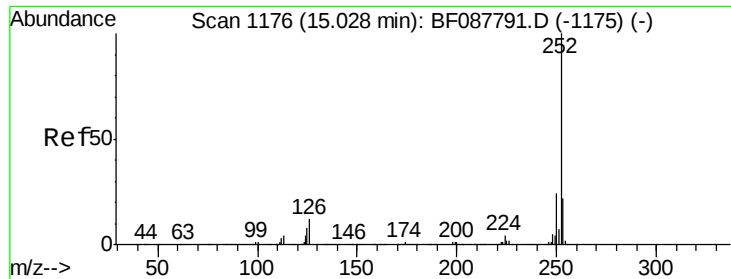


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(k)fluoranthene

Concen: 2.11 ng

RT: 14.66 min Scan# 1144

Delta R.T. -0.03 min

Lab File: BF088489.D

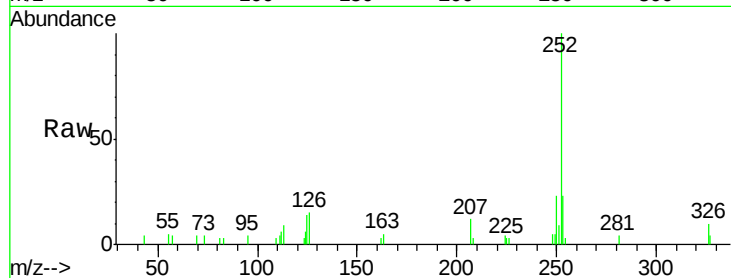
Acq: 28 Jun 2016 20:07

Instrument :

BNA_F

ClientSampleId :

Q8-B4(0-2)CDL2



Tgt Ion: 252 Resp: 20542

Ion Ratio Lower Upper

252 100

253 22.9 18.0 27.0

125 13.8 11.2 16.8

