

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
 Data File : BF088209.D
 Acq On : 21 Jun 2016 9:57
 Operator : UM/SJ
 Sample : H3474-03
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 21 11:51:22 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 20 17:39:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	102943	20.00	ng	-0.01
21) Naphthalene-d8	7.95	136	397889	20.00	ng	0.00
38) Acenaphthene-d10	9.70	164	170089	20.00	ng	0.00
63) Phenanthrene-d10	11.18	188	262119	20.00	ng	0.00
75) Chrysene-d12	13.81	240	201712	20.00	ng	0.00
86) Perylene-d12	15.19	264	229160	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.27	112	693990	115.25	ng	0.01
7) Phenol-d6	6.33	99	859581	117.79	ng	0.00
23) Nitrobenzene-d5	7.23	82	478568	70.23	ng	-0.01
41) 2,4,6-Tribromophenol	10.49	330	151246	84.21	ng	0.00
44) 2-Fluorobiphenyl	9.03	172	705024	63.73	ng	-0.01
78) Terphenyl-d14	12.75	244	474142	53.49	ng	-0.01

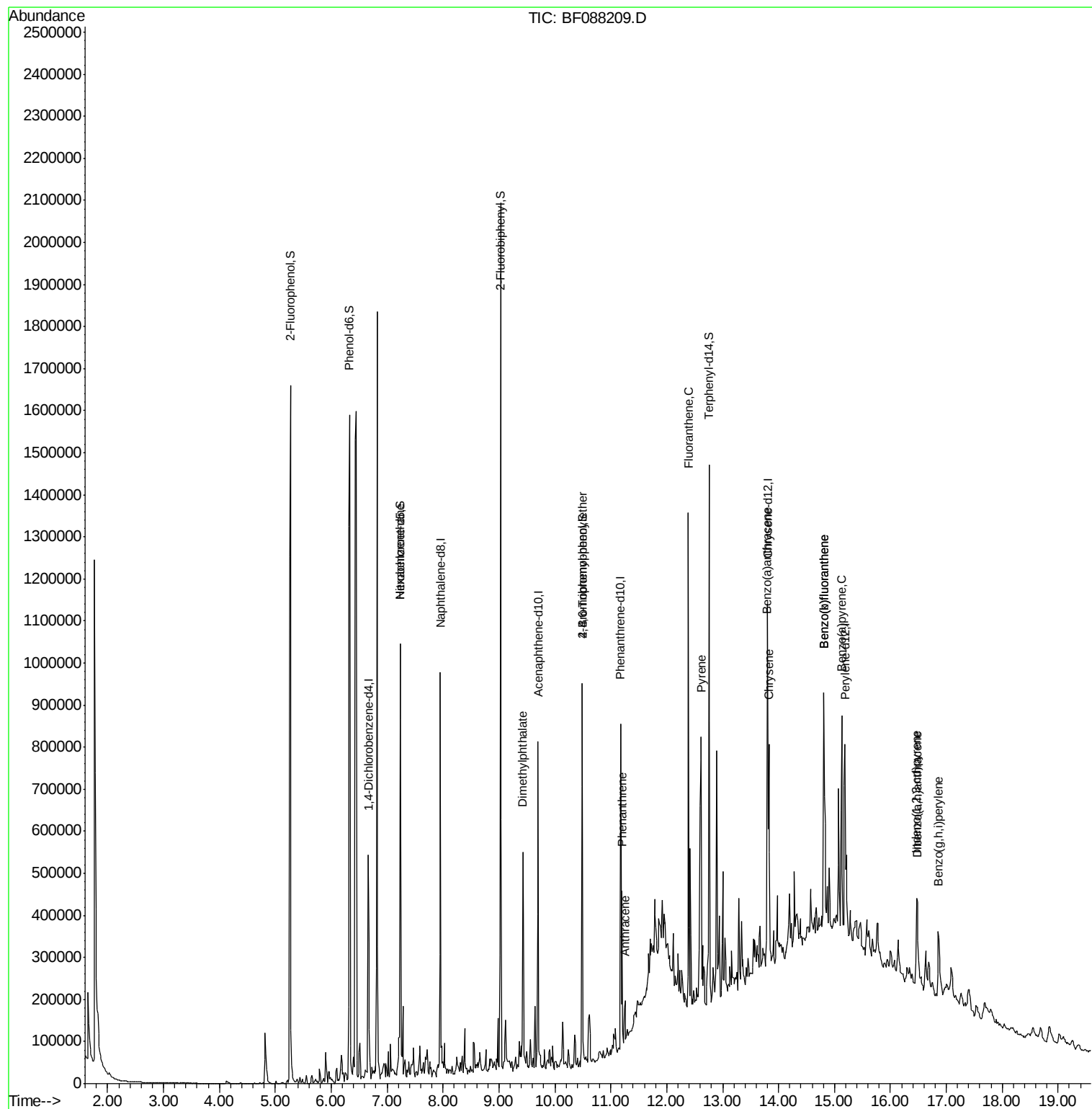
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.34	94	6700	Below Cal		83
18) Hexachloroethane	7.23	117	8294	3.03 ng	#	1
45) 1,1'-Biphenyl	9.13	154	2400	Below Cal		100
49) Dimethylphthalate	9.43	163	171977	13.96 ng		99
57) Fluorene	10.24	166	12779	Below Cal	#	90
66) 4-Bromophenyl-phenylether	10.49	248	9799	3.48 ng	#	1
70) Phenanthrene	11.20	178	129177	9.39 ng		98
71) Anthracene	11.26	178	59207	4.27 ng		99
74) Fluoranthene	12.39	202	432328	29.78 ng		98
77) Pyrene	12.62	202	380764	25.44 ng		98
80) Benzo(a)anthracene	13.79	228	306182	26.64 ng		99
82) Chrysene	13.83	228	212892	19.69 ng		98
85) Indeno(1,2,3-cd)pyrene	16.47	276	140927	14.03 ng	#	100
87) Benzo(b)fluoranthene	14.81	252	455692	28.53 ng	#	94
88) Benzo(k)fluoranthene	14.81	252	455692	37.82 ng		99
89) Benzo(a)pyrene	15.13	252	252600	19.55 ng		97
90) Dibenzo(a,h)anthracene	16.48	278	47877	3.99 ng	#	86
91) Benzo(g,h,i)perylene	16.86	276	121381	9.83 ng		97

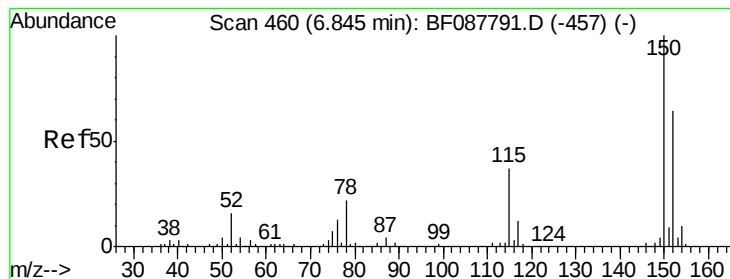
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

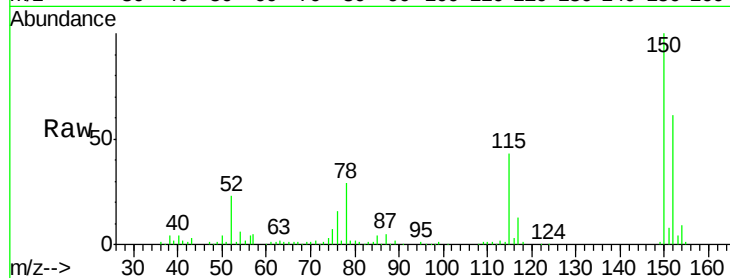
Tot Ion:152 Resp: 102943

Ion Ratio Lower Upper

152 100

150 162.8 123.8 185.6

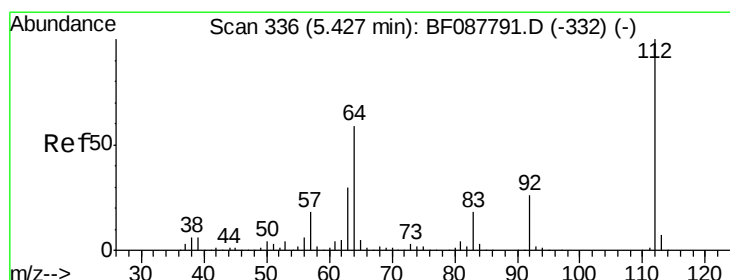
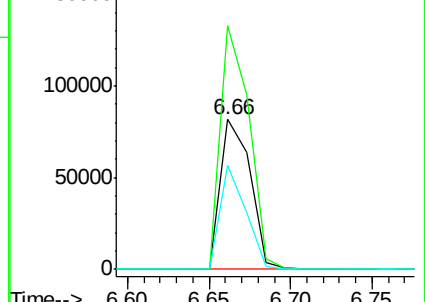
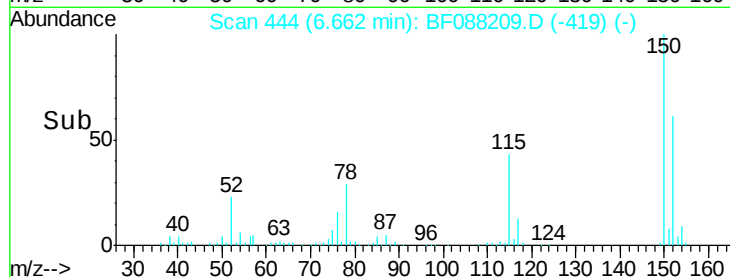
115 69.4 39.6 59.4#



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



#5

2-Fluorophenol

Concen: 115.25 ng

RT: 5.27 min Scan# 322

Delta R.T. 0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

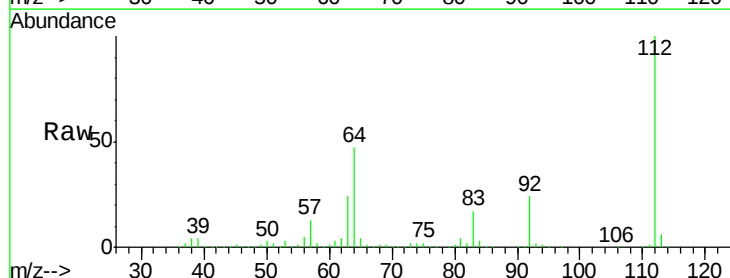
Tgt Ion:112 Resp: 693990

Ion Ratio Lower Upper

112 100

64 47.5 42.2 63.2

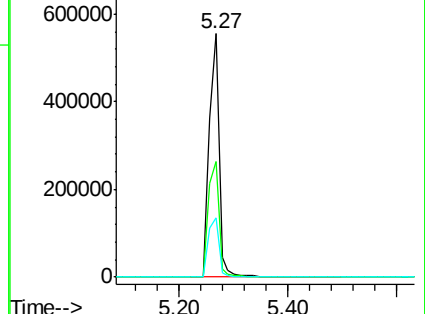
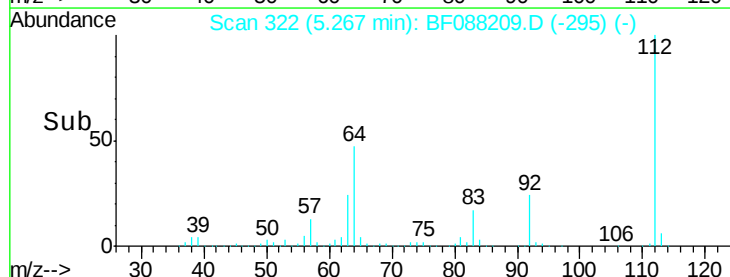
63 24.3 21.8 32.8



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: 117.79 ng

RT: 6.33 min Scan# 415

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

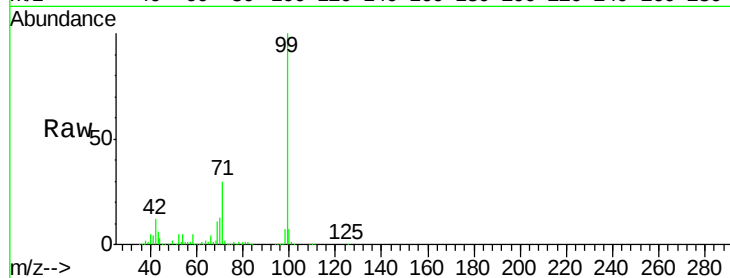
Tot Ion: 99 Resp: 859581

Ion Ratio Lower Upper

99 100

42 12.2 12.2 18.2

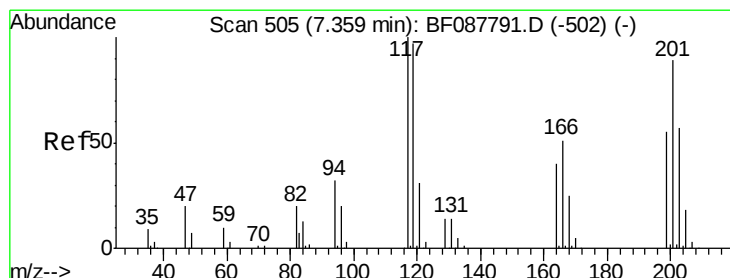
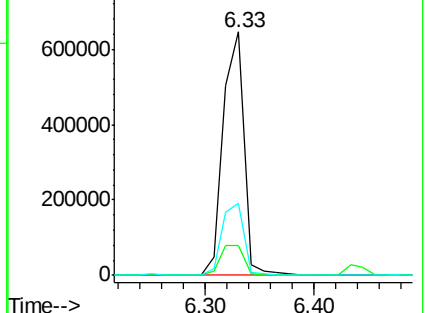
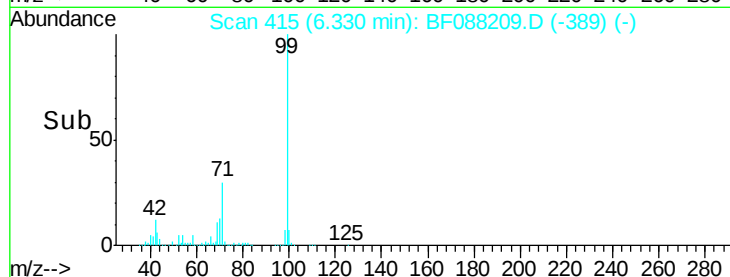
71 29.7 23.4 35.0



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



#18

Hexachloroethane

Concen: 3.03 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.06 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

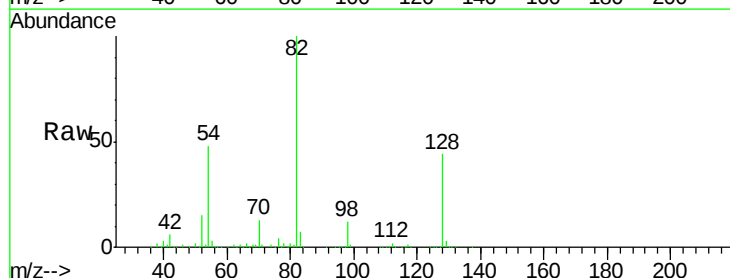
Tgt Ion: 117 Resp: 8294

Ion Ratio Lower Upper

117 100

119 0.0 77.4 116.2#

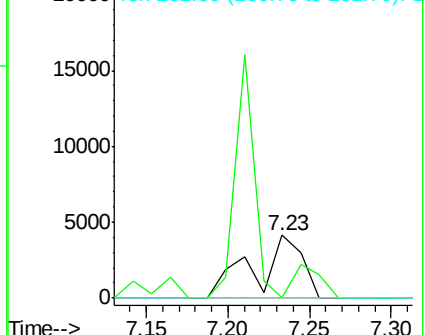
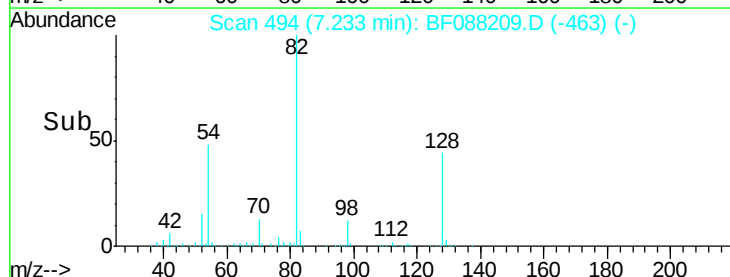
201 0.0 80.4 120.6#

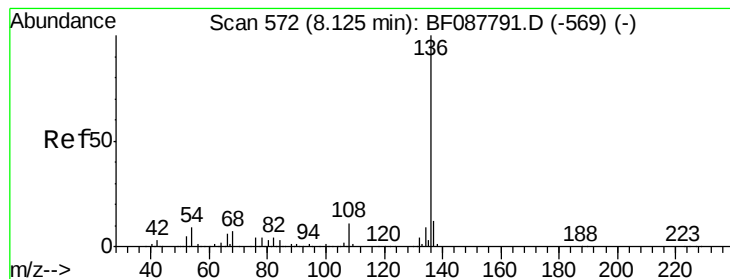


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 557

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 397889

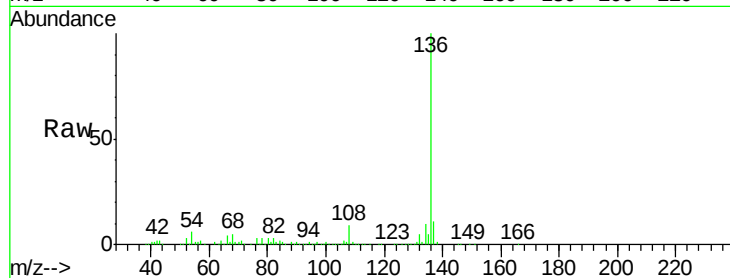
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 5.8 6.6 10.0#

68 5.3 5.1 7.7

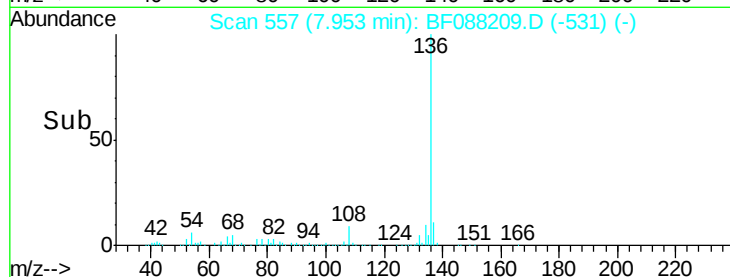


Abundance Ion 136.00 (135.70 to 136.70): E

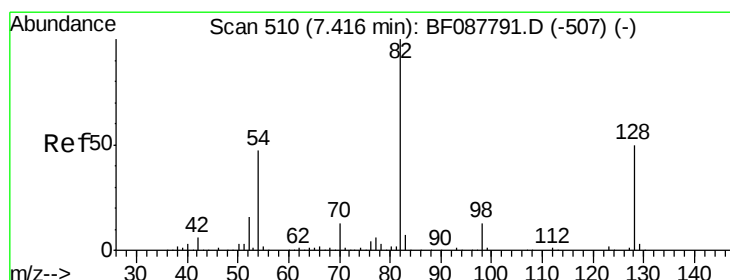
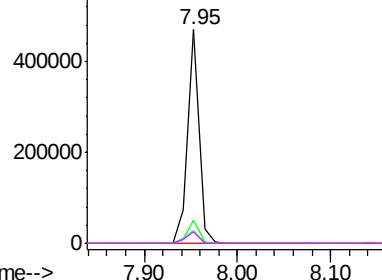
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 70.23 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

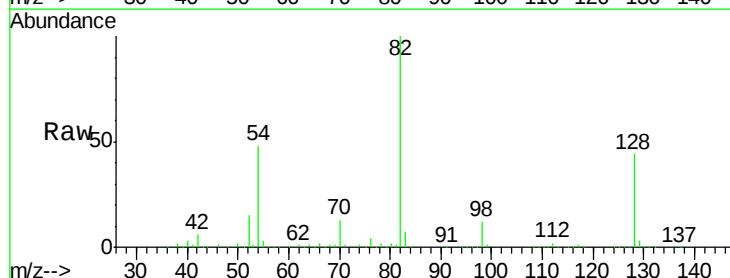
Tgt Ion: 82 Resp: 478568

Ion Ratio Lower Upper

82 100

128 44.3 35.9 53.9

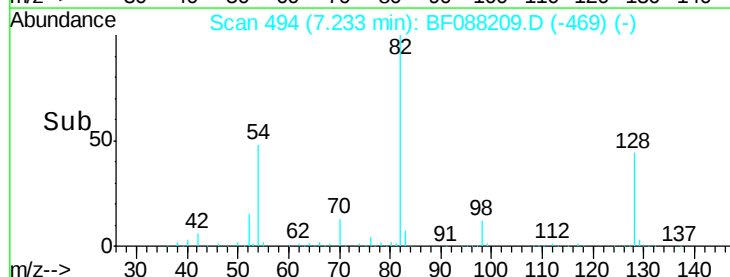
54 47.6 40.9 61.3



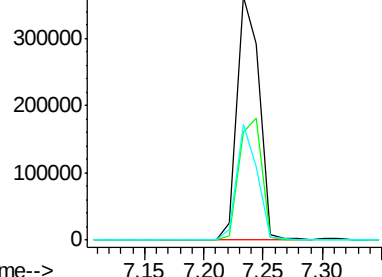
Abundance Ion 82.00 (81.70 to 82.70): BF0

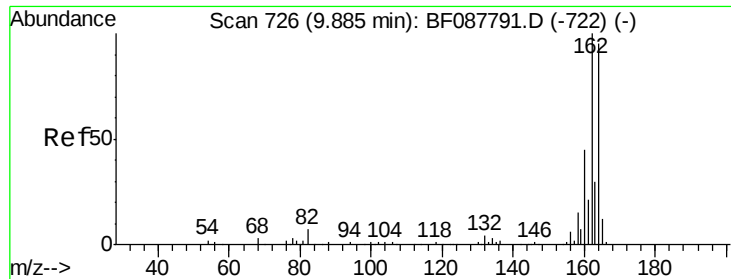
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampled :

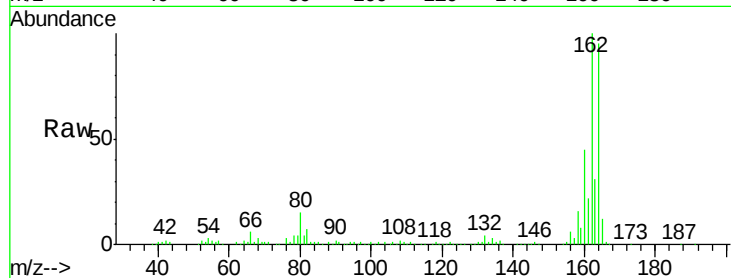
Tot Ion:164 Resp: 170089

Ion Ratio Lower Upper

164 100

162 105.1 85.4 128.2

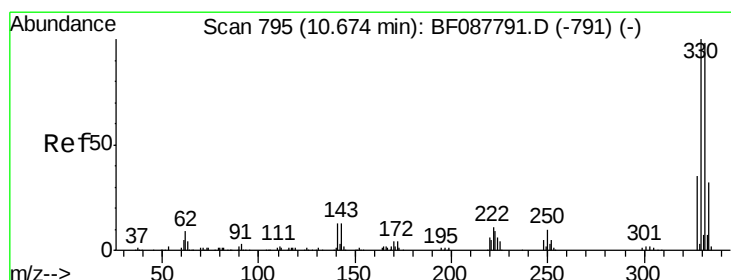
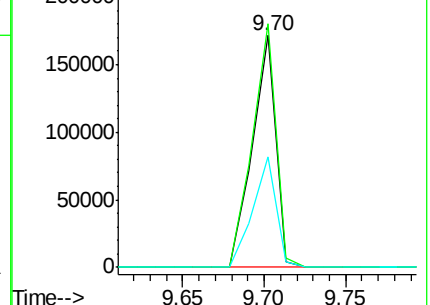
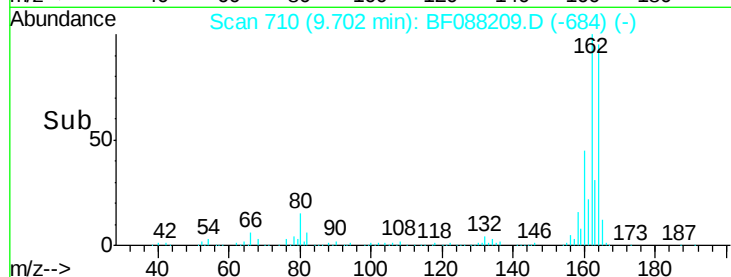
160 47.7 39.5 59.3



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: 84.21 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

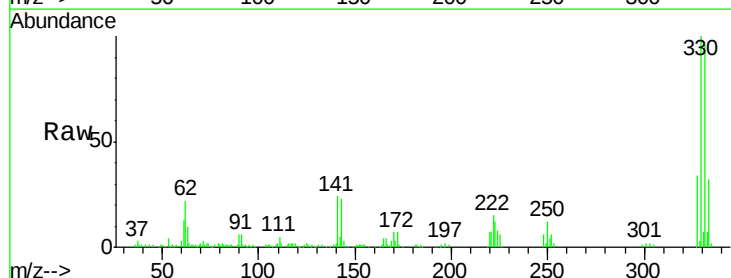
Tgt Ion:330 Resp: 151246

Ion Ratio Lower Upper

330 100

332 94.6 0.0 0.0#

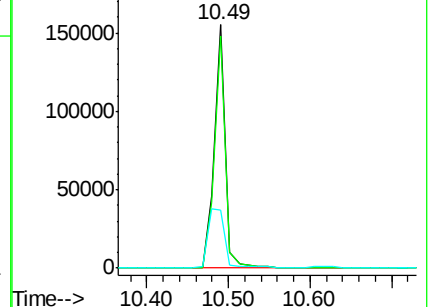
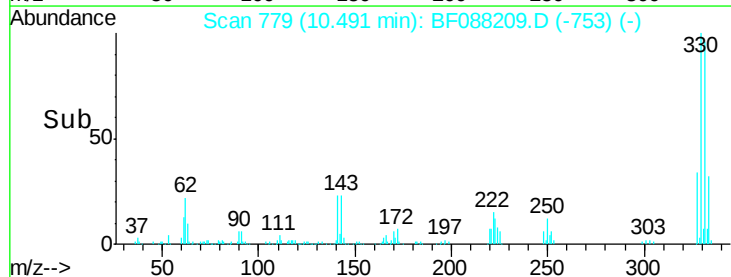
141 36.9 0.0 0.0#

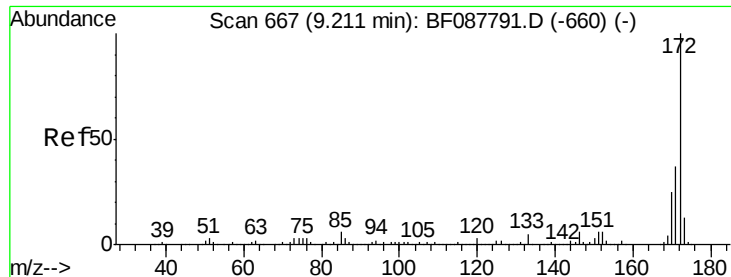


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

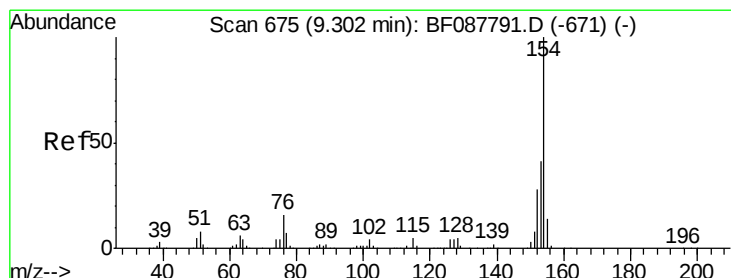
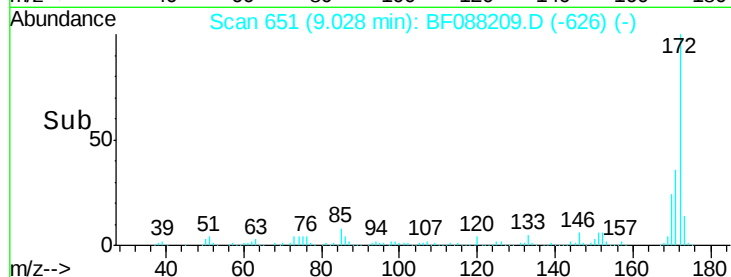
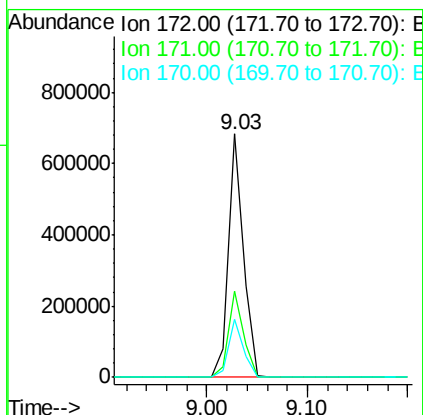
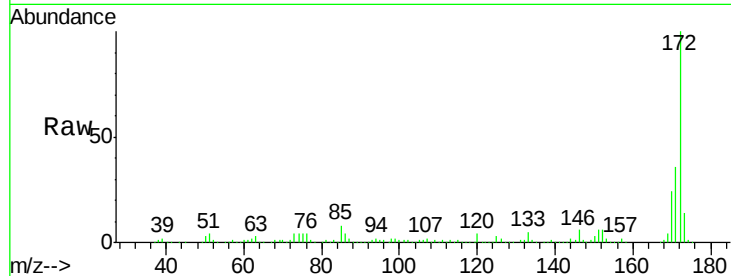




#44
 2-Fluorobiphenyl
 Concen: 63.73 ng
 RT: 9.03 min Scan# 651
 Delta R.T. -0.01 min
 Lab File: BF088209.D
 Acq: 21 Jun 2016 9:57

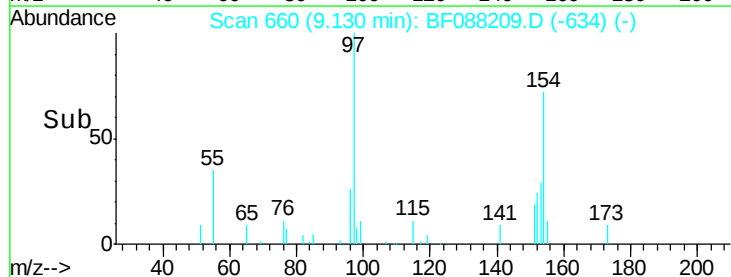
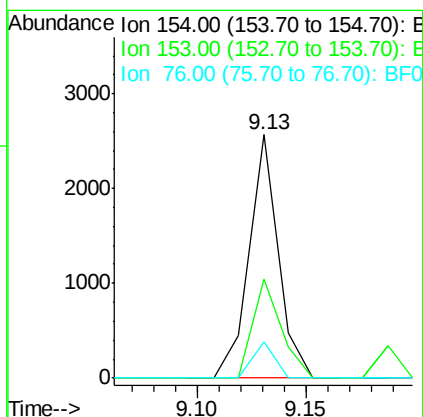
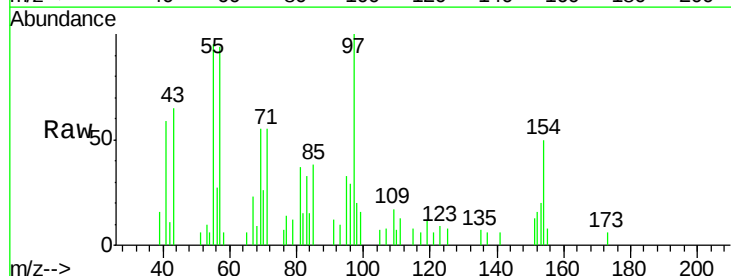
Instrument :
 BNA_F
 ClientSampleId :

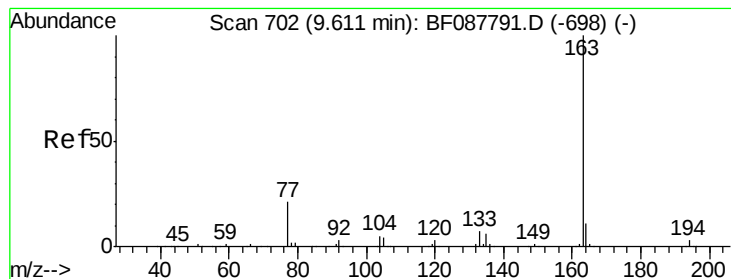
Tot Ion:172 Resp: 705024
 Ion Ratio Lower Upper
 172 100
 171 35.6 28.6 43.0
 170 24.0 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.13 min Scan# 660
 Delta R.T. -0.00 min
 Lab File: BF088209.D
 Acq: 21 Jun 2016 9:57

Tgt Ion:154 Resp: 2400
 Ion Ratio Lower Upper
 154 100
 153 40.6 20.6 60.6
 76 14.7 0.0 35.1





#49

Dimethylphthalate

Concen: 13.96 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampled :

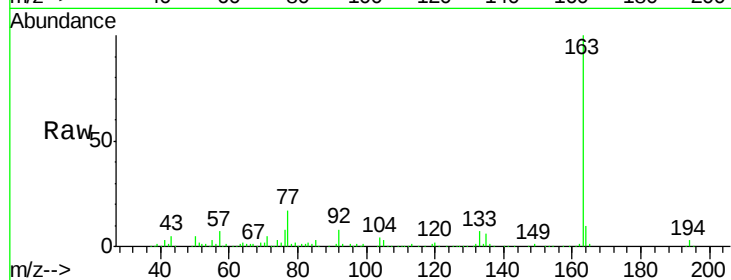
Tot Ion:163 Resp: 171977

Ion Ratio Lower Upper

163 100

194 3.1 2.8 4.2

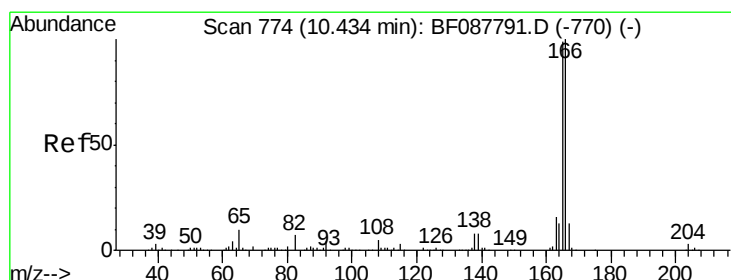
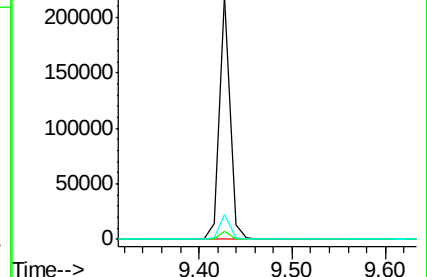
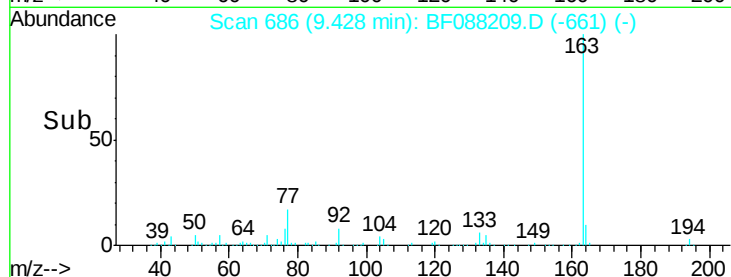
164 10.0 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

Fluorene

Concen: Below Cal

RT: 10.24 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

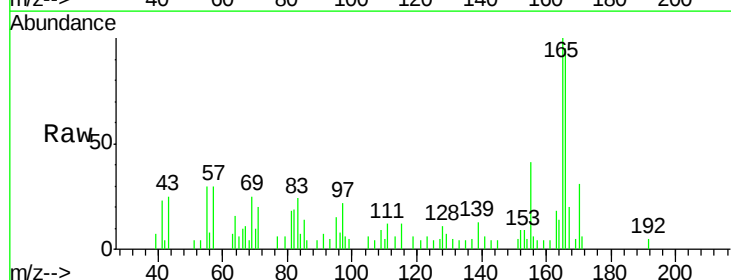
Tgt Ion:166 Resp: 12779

Ion Ratio Lower Upper

166 100

165 105.8 77.8 116.8

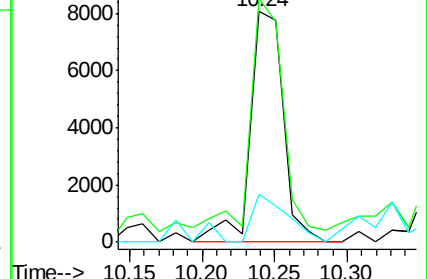
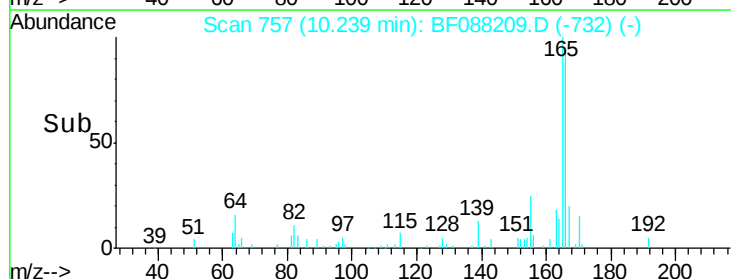
167 20.7 11.2 16.8#

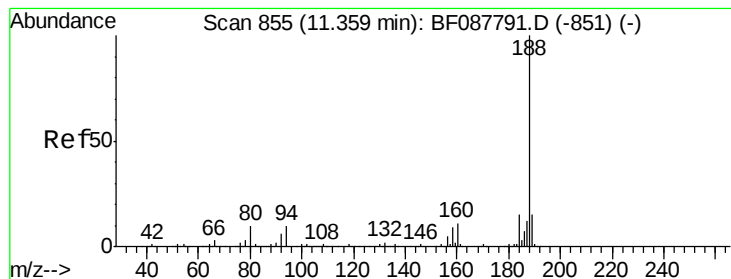


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.18 min Scan# 839

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

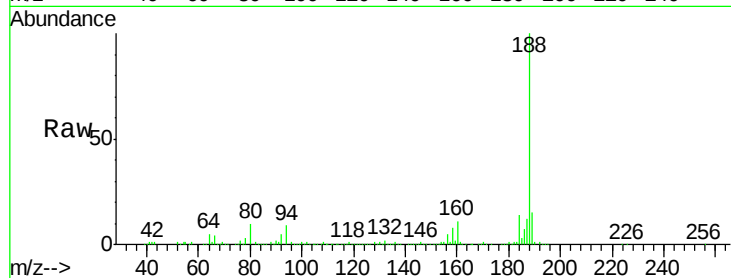
Tot Ion:188 Resp: 262119

Ion Ratio Lower Upper

188 100

94 9.4 9.0 13.6

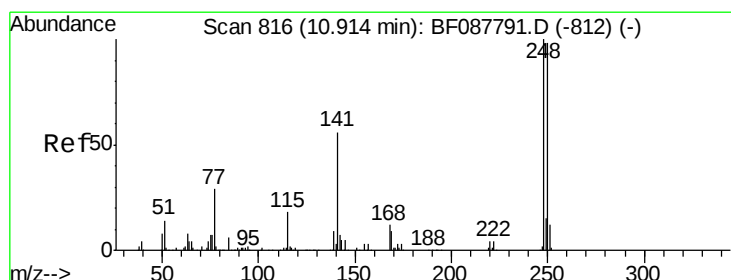
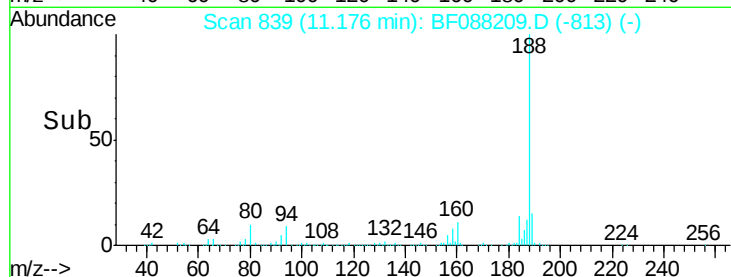
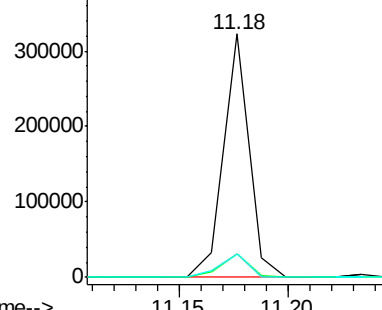
80 9.5 10.0 15.0#



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



#66

4-Bromophenyl-phenylether

Concen: 3.48 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.24 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

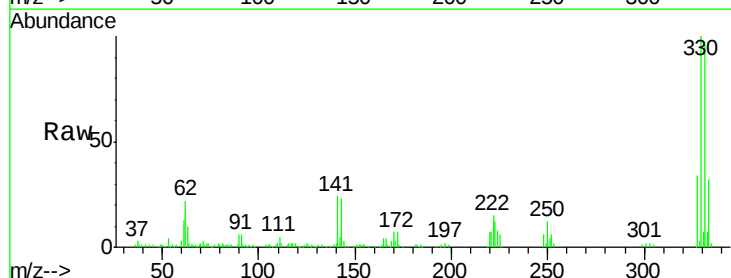
Tgt Ion:248 Resp: 9799

Ion Ratio Lower Upper

248 100

250 199.6 77.1 115.7#

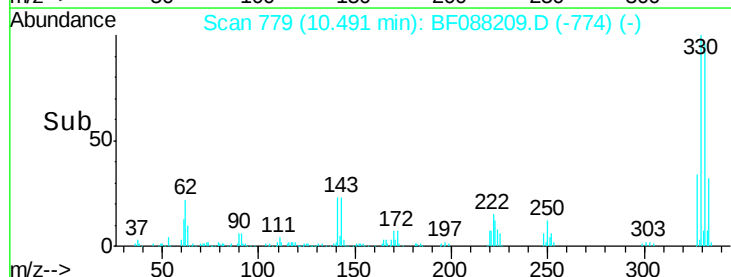
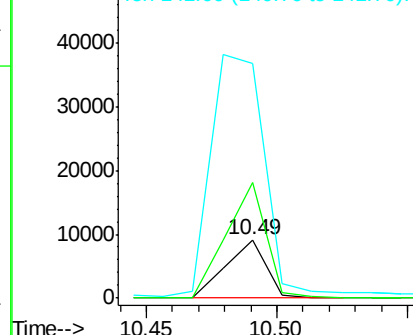
141 403.0 50.6 76.0#

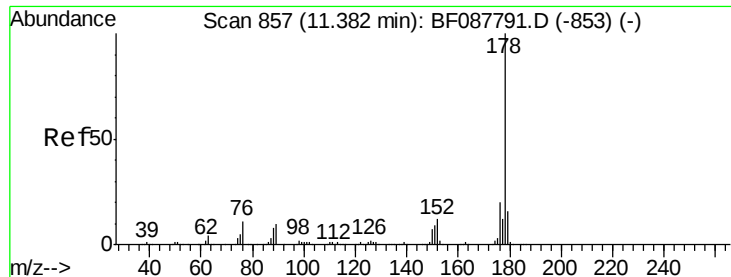


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 9.39 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

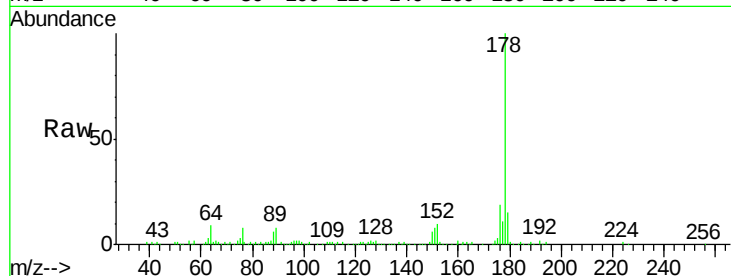
Tot Ion:178 Resp: 129177

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.6

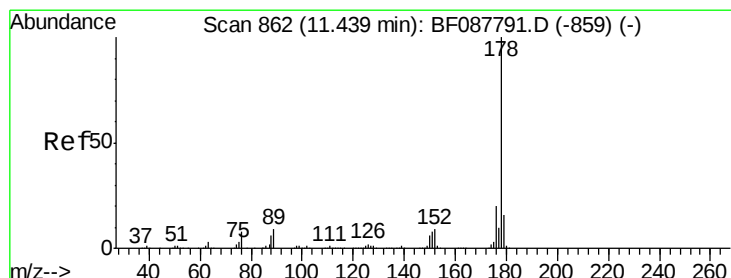
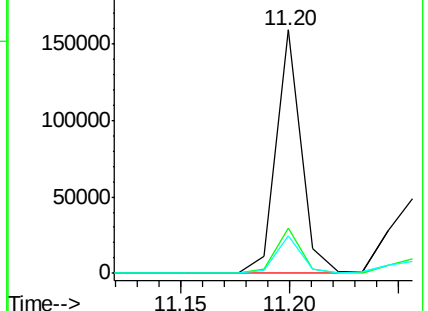
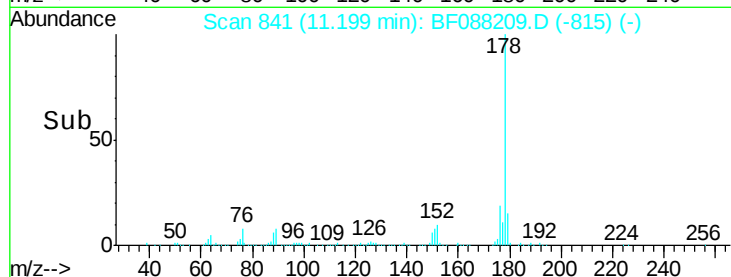
179 15.2 13.0 19.4



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: 4.27 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

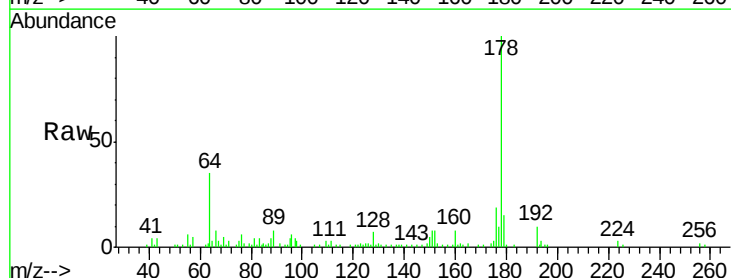
Tgt Ion:178 Resp: 59207

Ion Ratio Lower Upper

178 100

176 18.7 15.6 23.4

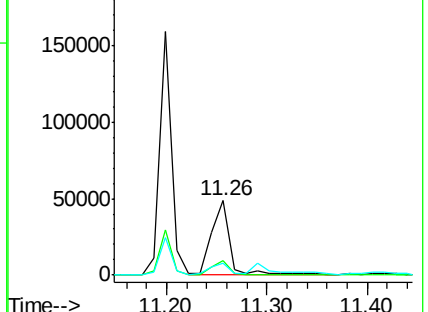
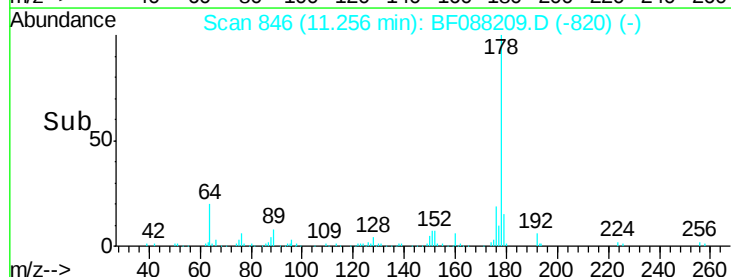
179 15.5 12.8 19.2

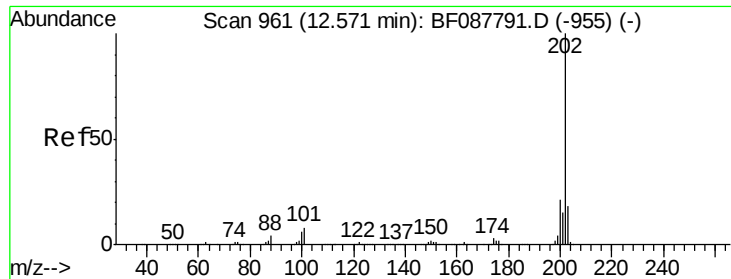


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 29.78 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

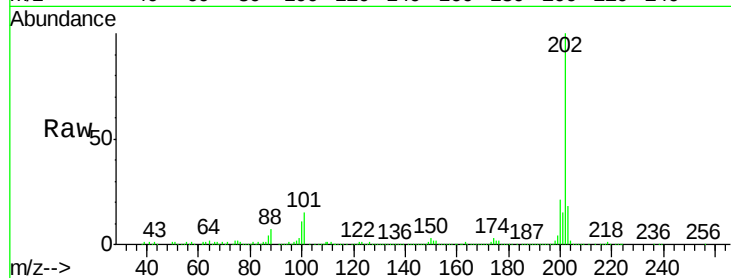
Tot Ion:202 Resp: 432328

Ion Ratio Lower Upper

202 100

101 14.5 0.0 33.1

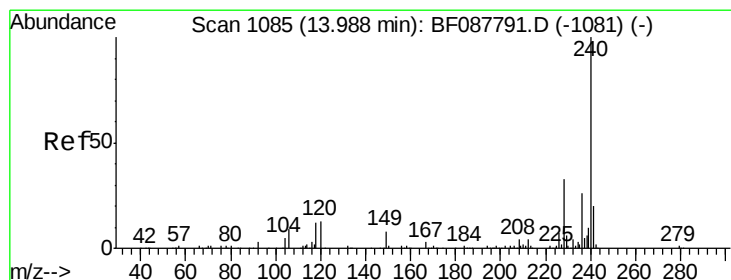
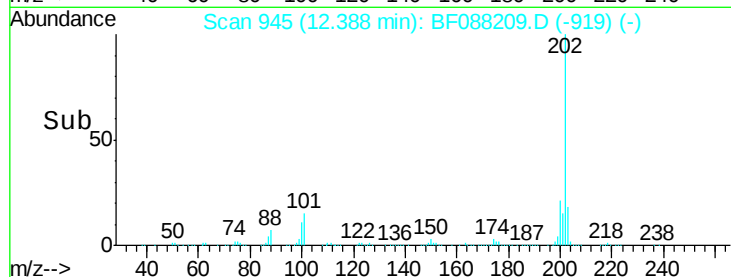
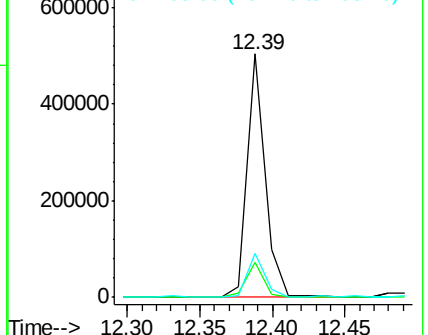
203 17.8 0.0 38.1



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: 13.81 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

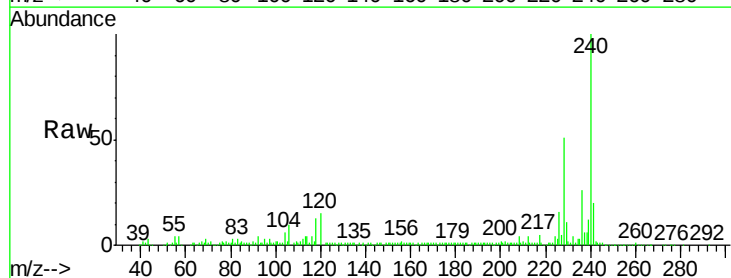
Tgt Ion:240 Resp: 201712

Ion Ratio Lower Upper

240 100

120 14.8 6.8 10.2#

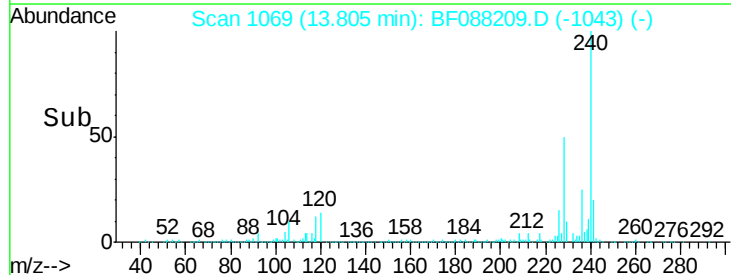
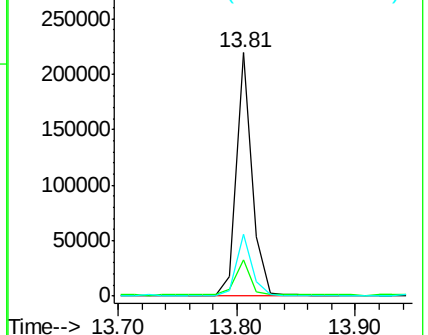
236 25.6 20.2 30.2

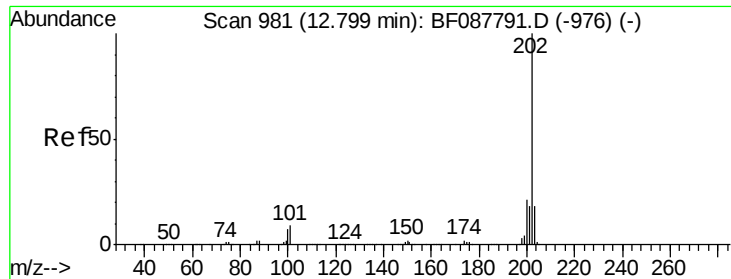


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 25.44 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

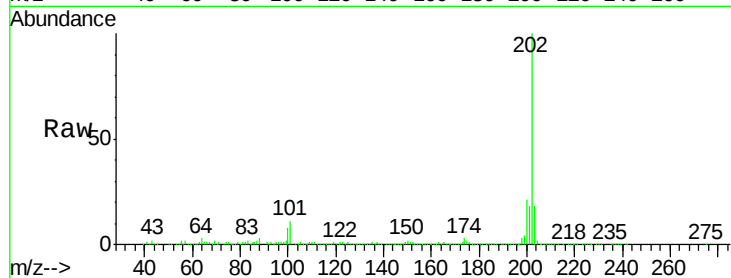
Tot Ion:202 Resp: 380764

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

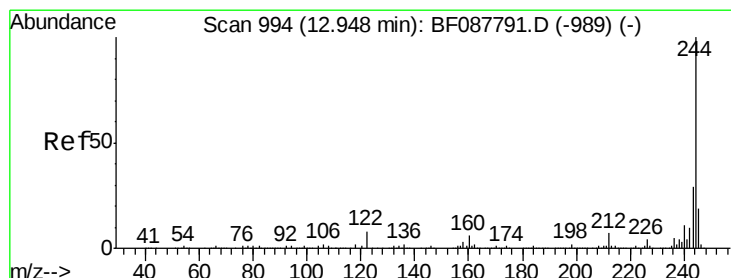
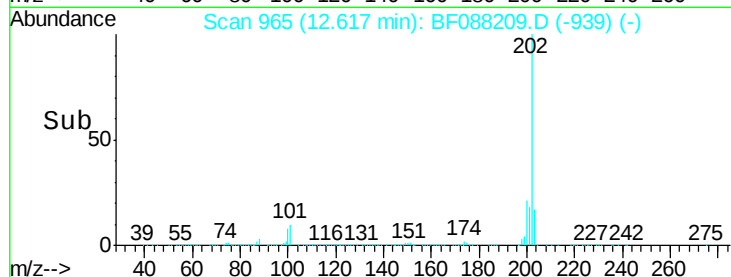
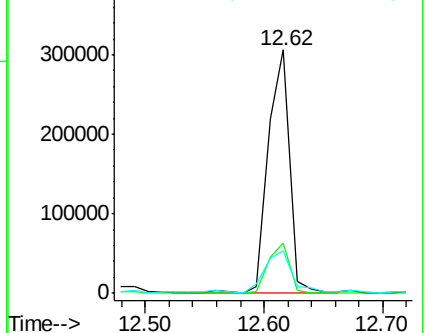
203 17.7 14.5 21.7



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: 53.49 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

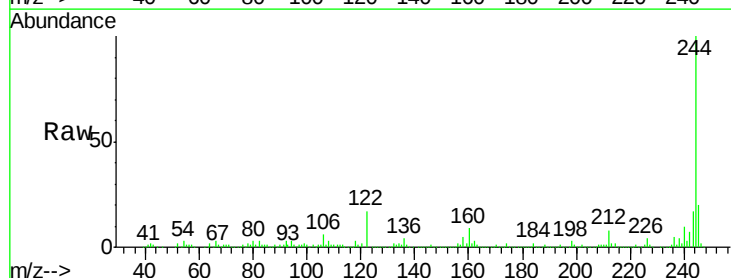
Tgt Ion:244 Resp: 474142

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

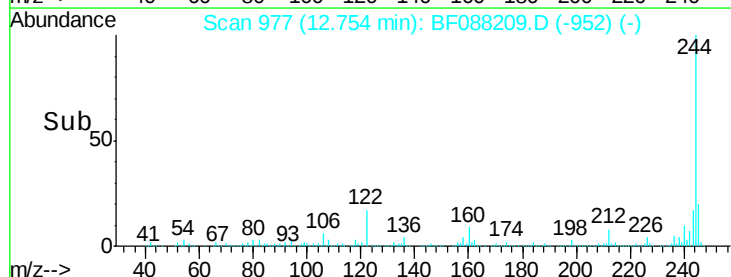
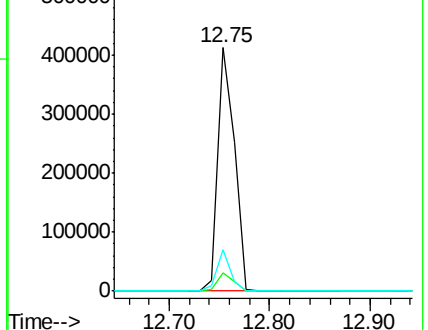
122 17.0 11.2 16.8#

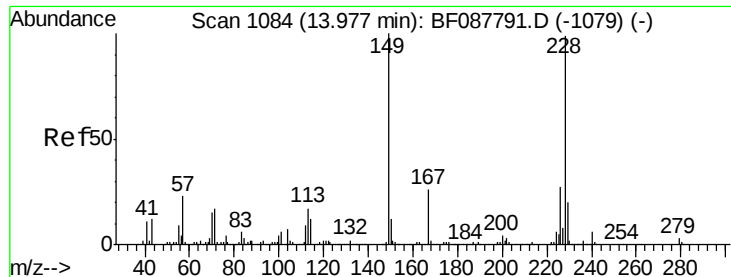


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 26.64 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

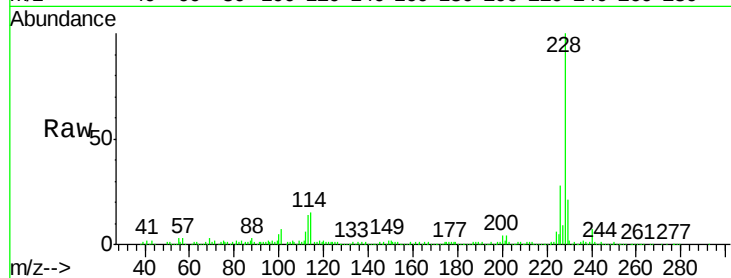
Tot Ion:228 Resp: 306182

Ion Ratio Lower Upper

228 100

226 28.0 22.3 33.5

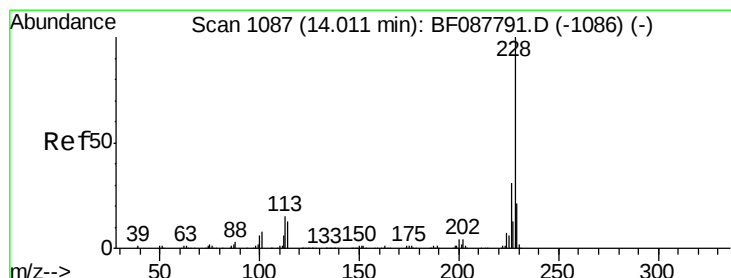
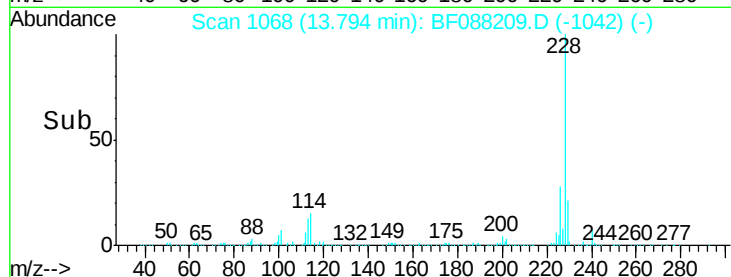
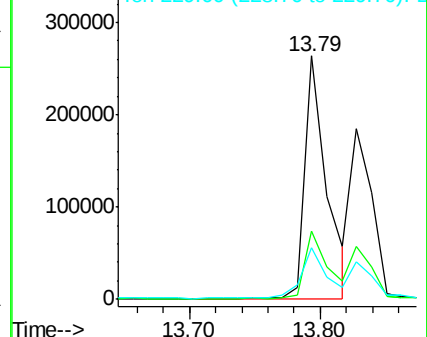
229 21.2 16.0 24.0



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: 19.69 ng

RT: 13.83 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

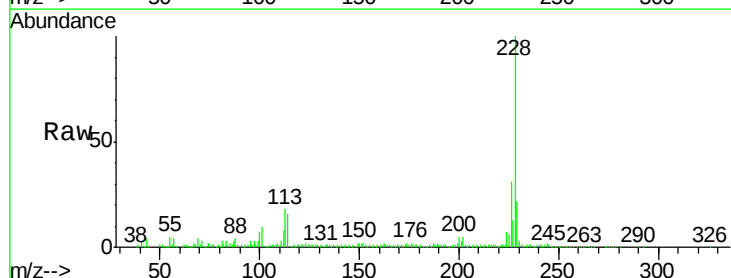
Tgt Ion:228 Resp: 212892

Ion Ratio Lower Upper

228 100

226 31.1 25.4 38.2

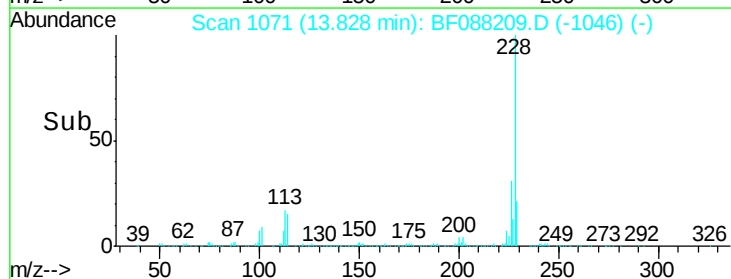
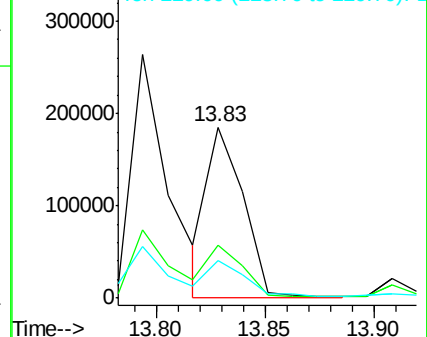
229 21.7 16.3 24.5

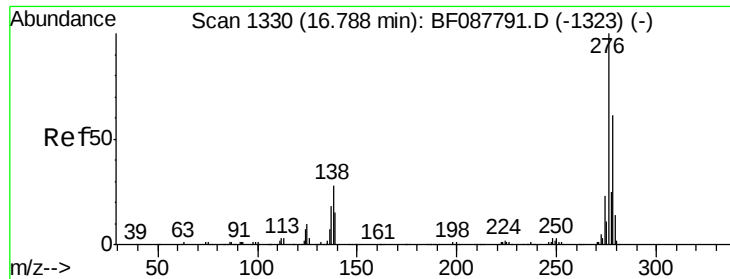


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

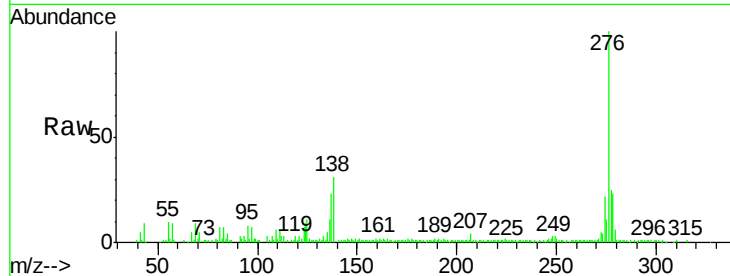




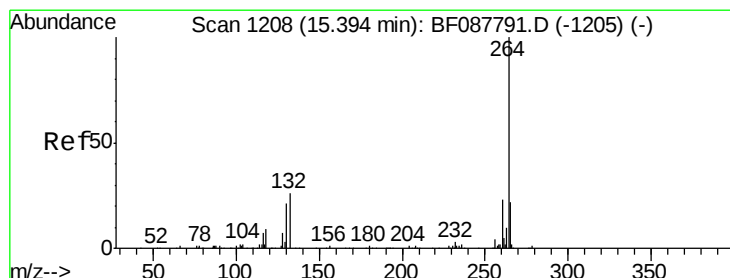
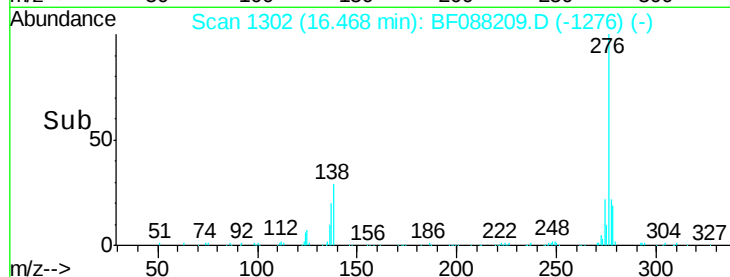
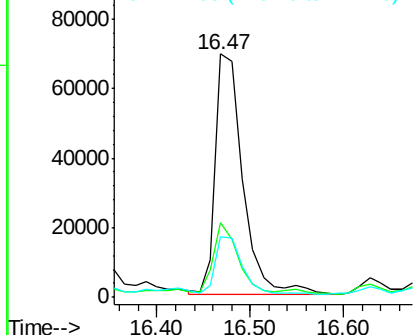
#85
Indeno(1,2,3-cd)pyrene
Concen: 14.03 ng
RT: 16.47 min Scan# 1302
Delta R.T. -0.00 min
Lab File: BF088209.D
Acq: 21 Jun 2016 9:57

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.4	0.0	0.0#
277	23.7	0.0	0.0#

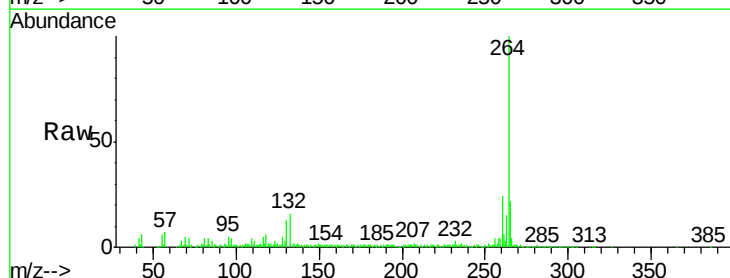


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

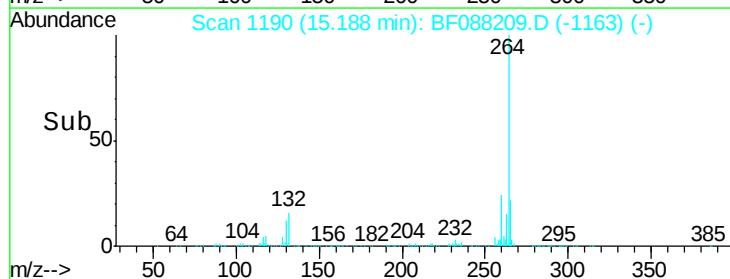
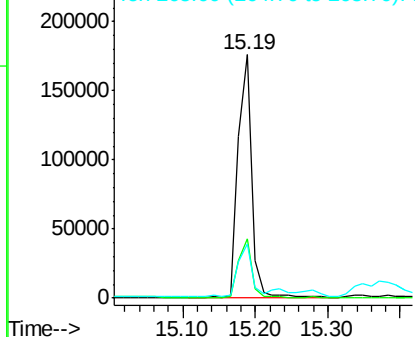


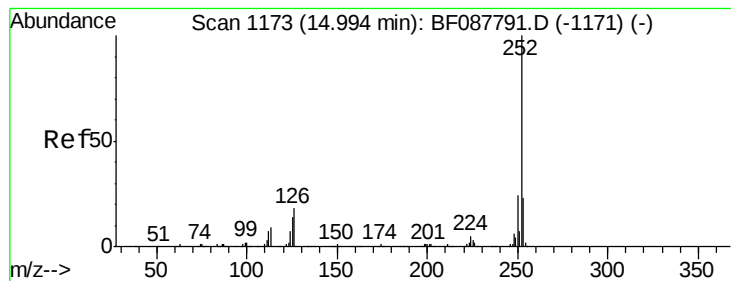
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.19 min Scan# 1190
Delta R.T. 0.01 min
Lab File: BF088209.D
Acq: 21 Jun 2016 9:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	22.3	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





#87

Benzo(b)fluoranthene

Concen: 28.53 ng

RT: 14.81 min Scan# 1157

Delta R.T. 0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

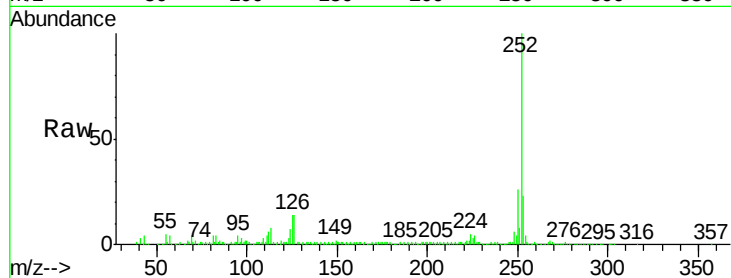
Tot Ion:252 Resp: 455692

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.2

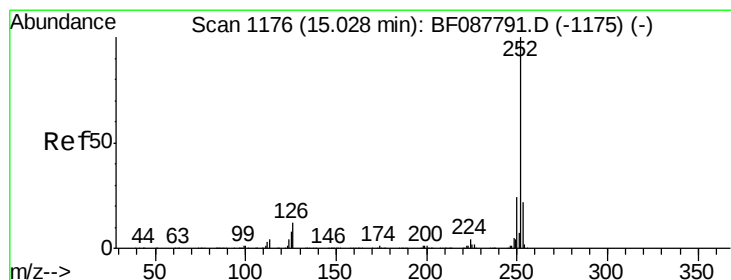
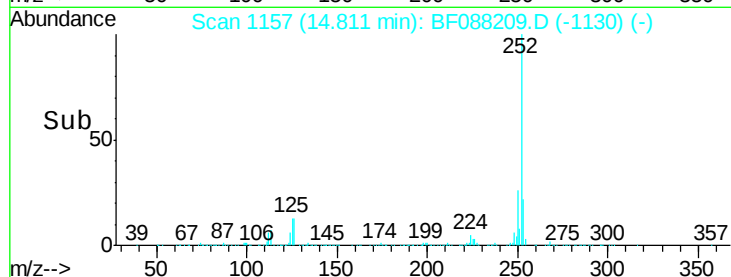
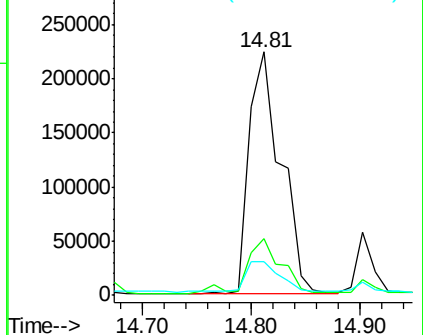
125 14.1 7.1 10.7#



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: 37.82 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

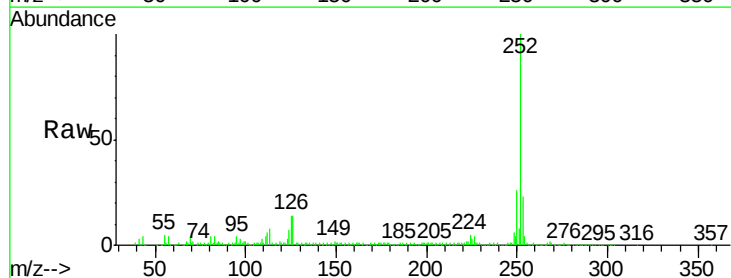
Tgt Ion:252 Resp: 455692

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

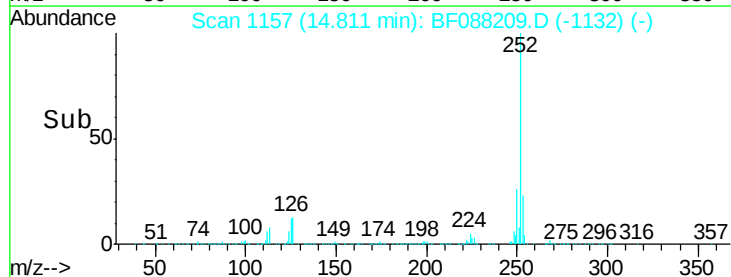
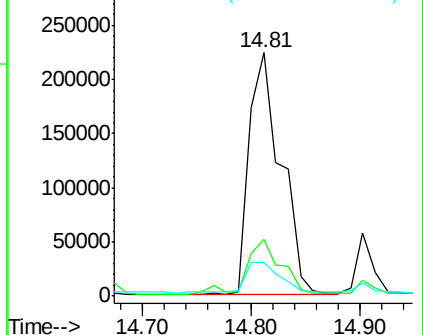
125 14.1 11.2 16.8

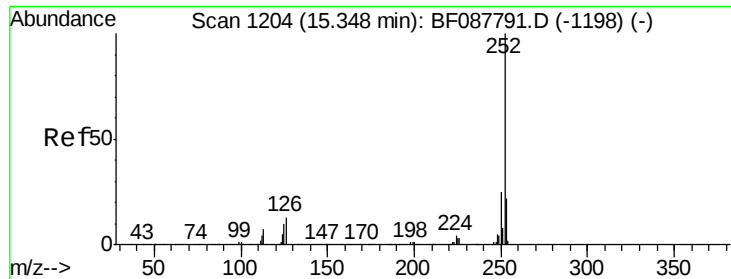


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 19.55 ng

RT: 15.13 min Scan# 1185

Delta R.T. 0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

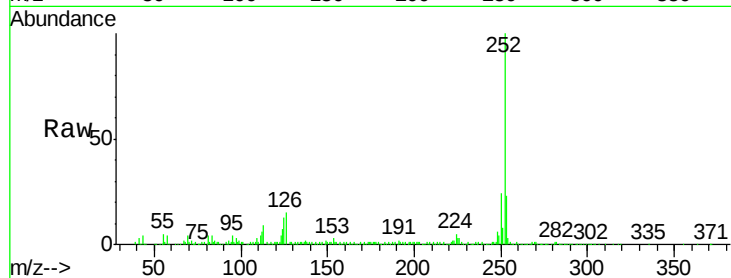
Tot Ion:252 Resp: 252600

Ion Ratio Lower Upper

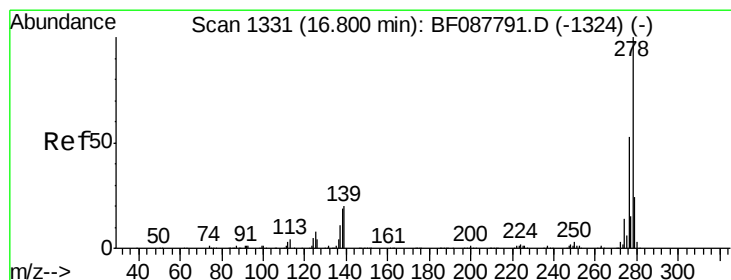
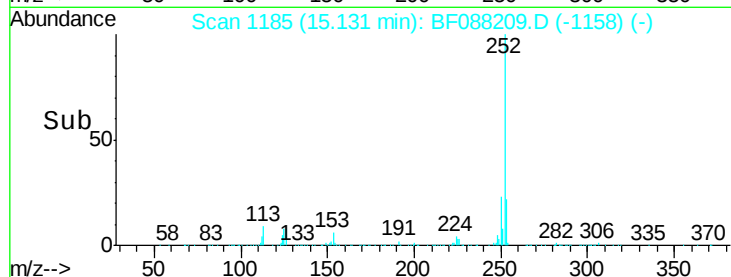
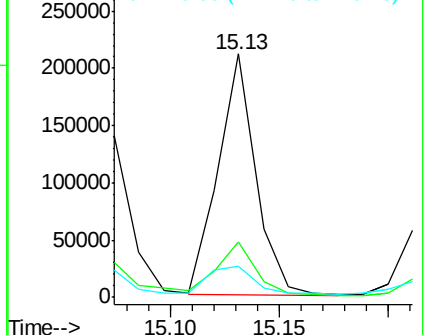
252 100

253 22.7 17.9 26.9

125 12.9 12.5 18.7



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



#90

Dibenzo(a,h)anthracene

Concen: 3.99 ng

RT: 16.48 min Scan# 1303

Delta R.T. 0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

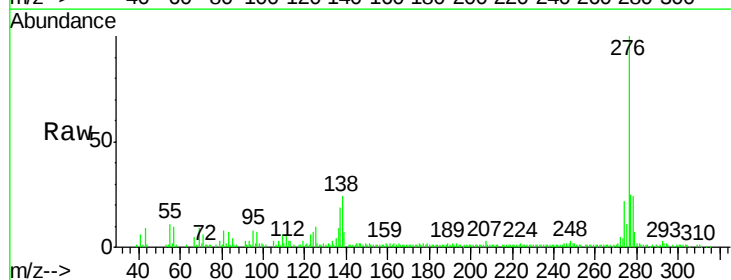
Tgt Ion:278 Resp: 47877

Ion Ratio Lower Upper

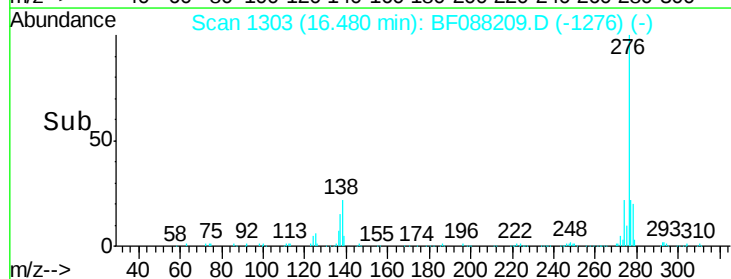
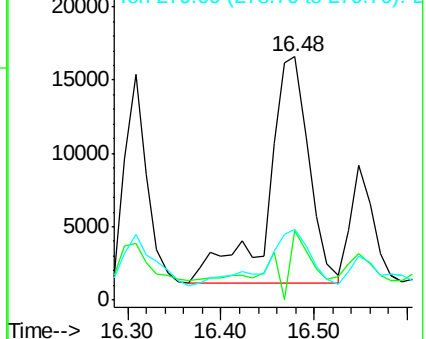
278 100

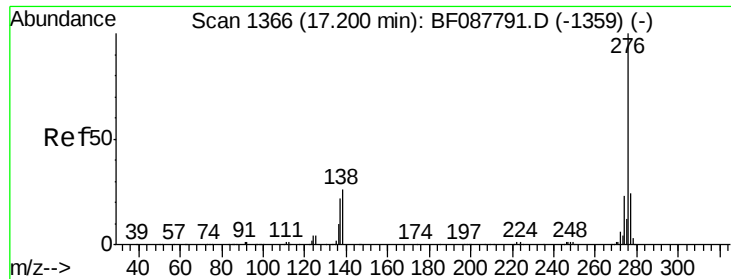
139 28.4 15.7 23.5#

279 28.8 19.4 29.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 9.83 ng

RT: 16.86 min Scan# 1336

Delta R.T. 0.01 min

Lab File: BF088209.D

Acq: 21 Jun 2016 9:57

Instrument :

BNA_F

ClientSampleId :

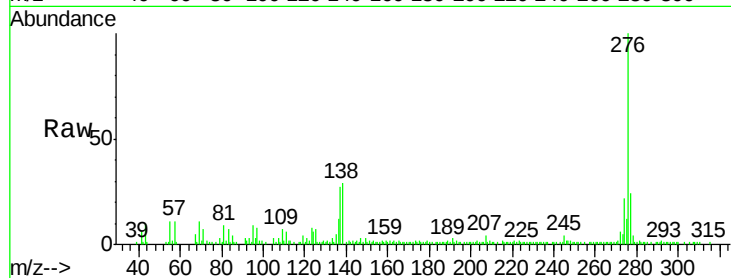
Tot Ion: 276 Resp: 121381

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 29.1 21.4 32.2



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

