

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122216\
 Data File : BF091885.D
 Acq On : 22 Dec 2016 14:53
 Operator : UM/SJ
 Sample : H6142-01RE 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1(1.5-2.5)RE

Quant Time: Dec 23 00:35:52 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 16:17:51 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	276748	20.00	ng	0.00
21) Naphthalene-d8	8.04	136	984244	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	309087	20.00	ng	0.00
63) Phenanthrene-d10	11.28	188	388016	20.00	ng	0.01
75) Chrysene-d12	13.93	240	331352	20.00	ng	0.02
86) Perylene-d12	15.36	264	260271	20.00	ng	0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.39	112	284600	17.17	ng	0.05
7) Phenol-d6	6.45	99	336461	16.63	ng	0.05
23) Nitrobenzene-d5	7.31	82	199070	11.25	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	35618	13.92	ng	0.01
44) 2-Fluorobiphenyl	9.12	172	308647	8.91	ng	0.00
78) Terphenyl-d14	12.87	244	149036	10.91	ng	0.01

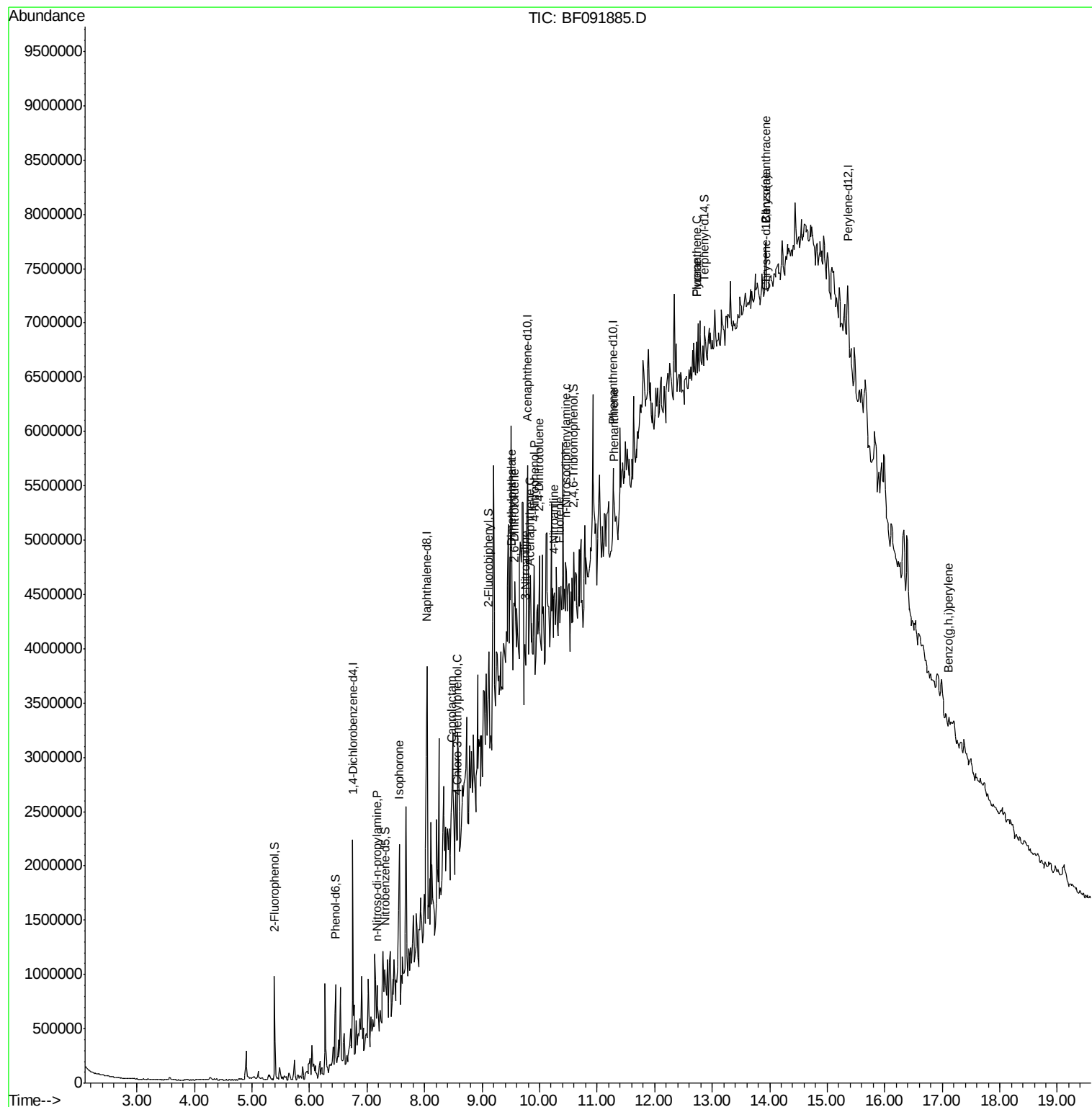
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.17	70	27909	2.07	ng	# 63
25) Isophorone	7.56	82	69135	2.12	ng	# 1
35) Caprolactam	8.48	113	25728	6.00	ng	# 1
36) 4-Chloro-3-methylphenol	8.57	107	37236	2.48	ng	# 30
49) Dimethylphthalate	9.52	163	81027	4.10	ng	# 74
50) 2,6-Dinitrotoluene	9.56	165	13900	3.21	ng	# 65
51) Acenaphthene	9.82	154	74628	4.27	ng	# 90
52) 3-Nitroaniline	9.74	138	35139	6.56	ng	# 20
55) 4-Nitrophenol	9.90	139	31634	8.70	ng	# 1
56) 2,4-Dinitrotoluene	10.00	165	17081	3.15	ng	# 62
57) Fluorene	10.34	166	41138	2.40	ng	# 41
61) 4-Nitroaniline	10.25	138	41105	7.41	ng	# 85
65) n-Nitrosodiphenylamine	10.45	169	264139	22.94	ng	# 67
70) Phenanthrene	11.30	178	63949	3.04	ng	# 20
73) Di-n-butylphthalate	11.82	149	41101	Below Cal		# 25
74) Fluoranthene	12.73	202	226654	9.24	ng	# 86
76) Benzidine	12.59	184	3914	Below Cal		# 1
77) Pyrene	12.73	202	266227	10.95	ng	# 88
80) Benzo(a)anthracene	13.94	228	134707	7.20	ng	# 26
82) Chrysene	13.94	228	134707	7.18	ng	# 34
91) Benzo(g,h,i)perylene	17.12	276	25563	2.08	ng	# 15

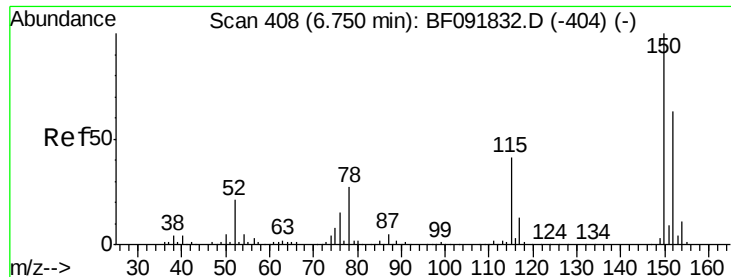
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. -0.00 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

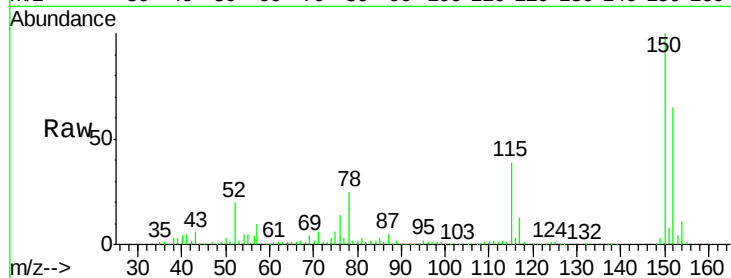
Tgt Ion:152 Resp: 276748

Ion Ratio Lower Upper

152 100

150 154.9 124.9 187.3

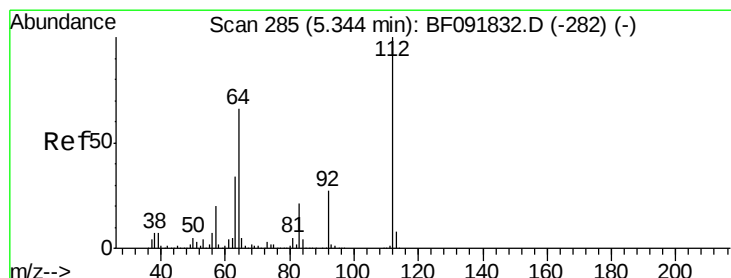
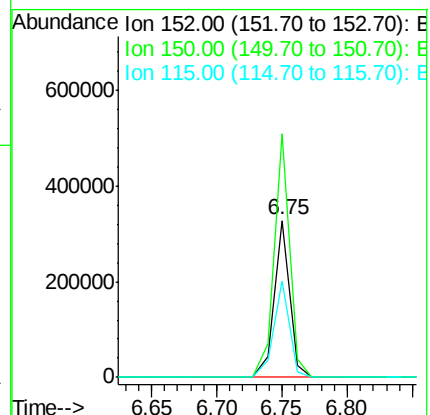
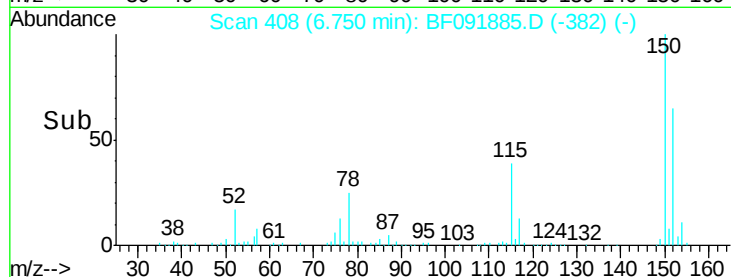
115 61.0 46.0 69.0



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: 17.17 ng

RT: 5.39 min Scan# 289

Delta R.T. 0.05 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

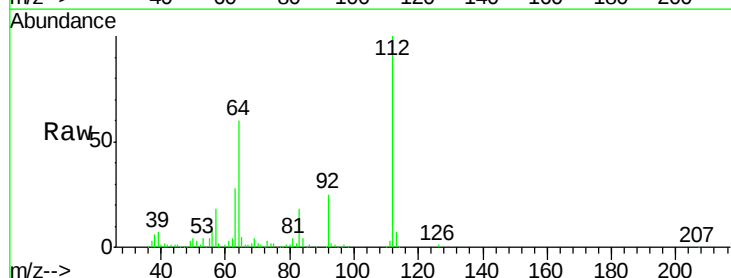
Tgt Ion:112 Resp: 284600

Ion Ratio Lower Upper

112 100

64 60.2 46.1 69.1

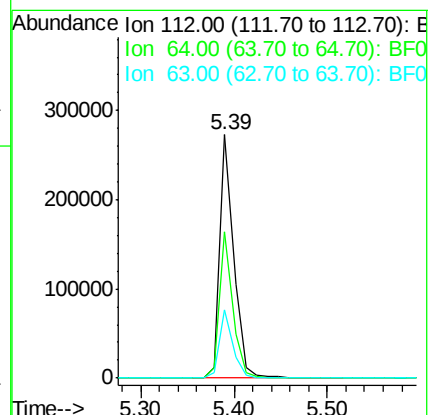
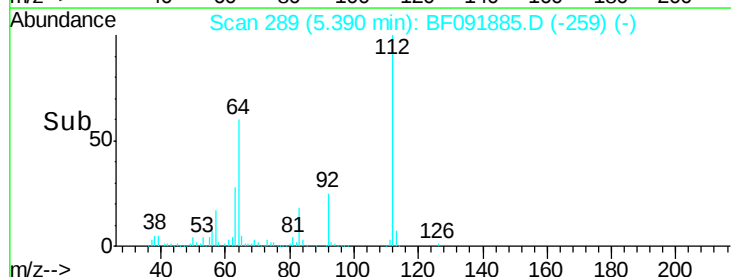
63 28.2 23.8 35.6

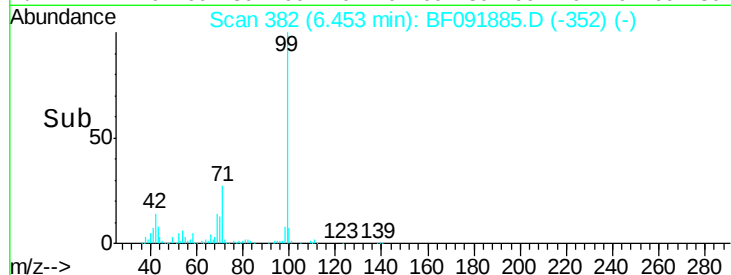
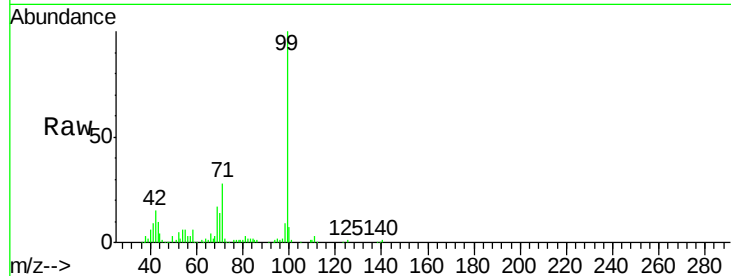
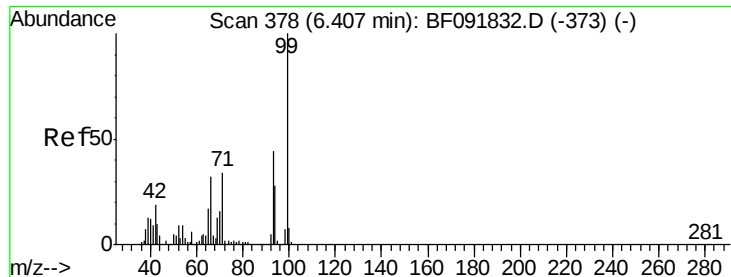


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 16.63 ng

RT: 6.45 min Scan# 382

Delta R.T. 0.05 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

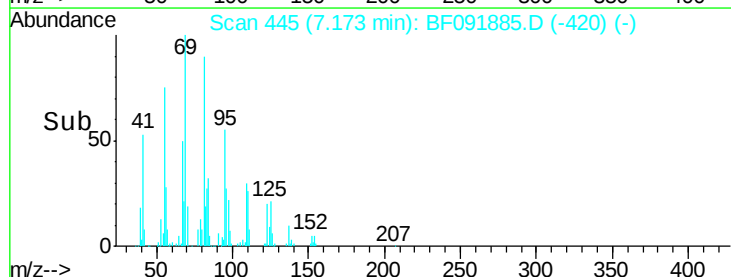
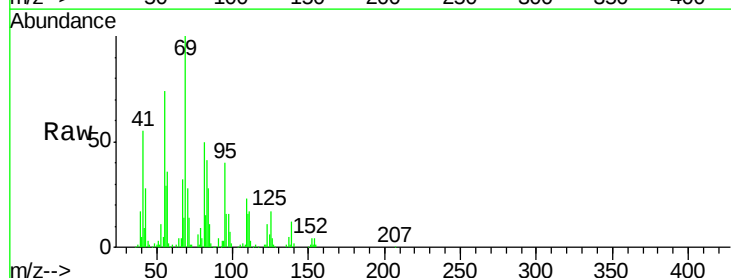
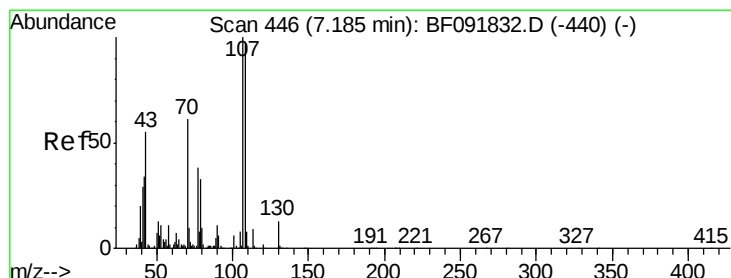
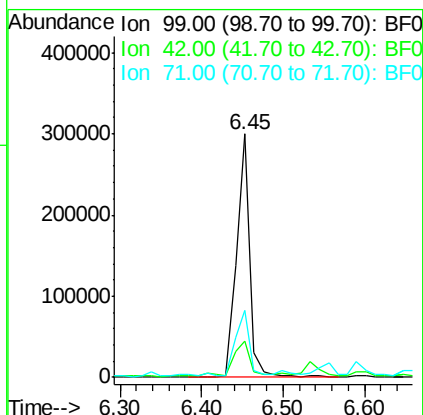
Tgt Ion: 99 Resp: 336461

Ion Ratio Lower Upper

99 100

42 14.9 15.6 23.4#

71 27.5 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 2.07 ng

RT: 7.17 min Scan# 445

Delta R.T. -0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Tgt Ion: 70 Resp: 27909

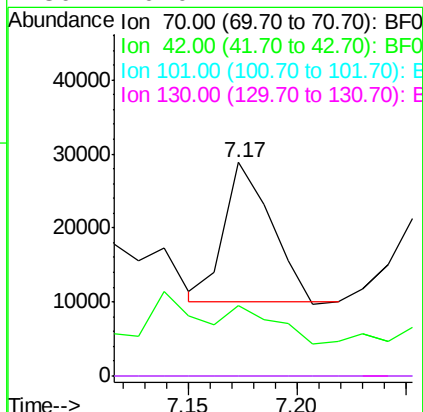
Ion Ratio Lower Upper

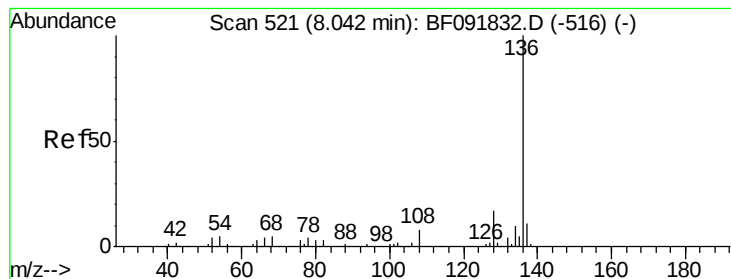
70 100

42 33.2 49.4 74.0#

101 0.0 7.4 11.2#

130 0.0 14.2 21.4#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.04 min Scan# 521

Delta R.T. -0.00 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

Tgt Ion:136 Resp: 984244

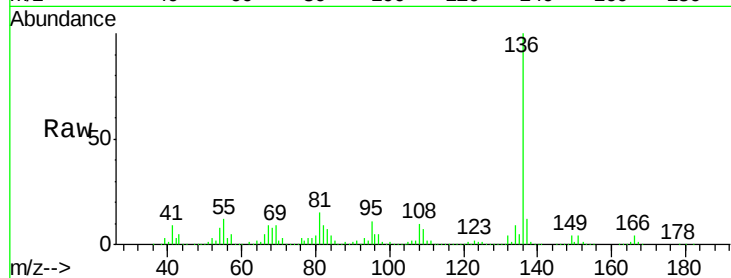
Ion Ratio Lower Upper

136 100

137 11.8 8.4 12.6

54 8.0 4.5 6.7#

68 8.1 3.6 5.4#

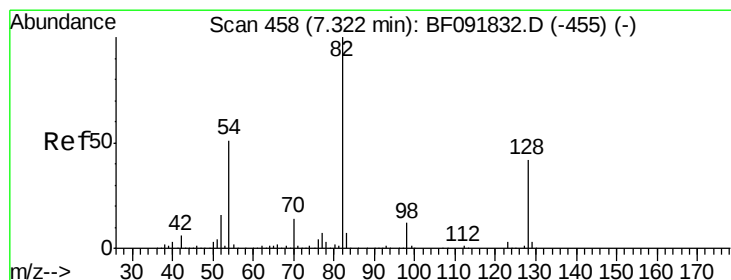
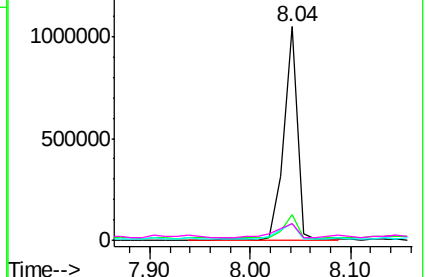
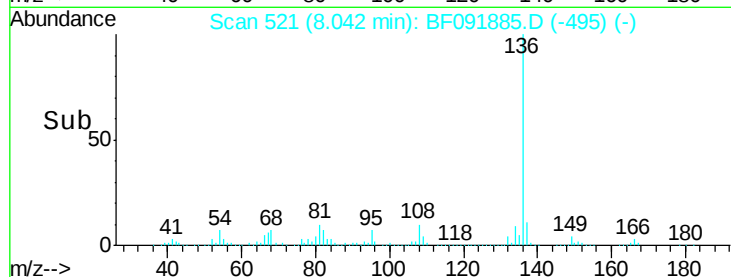


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.25 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

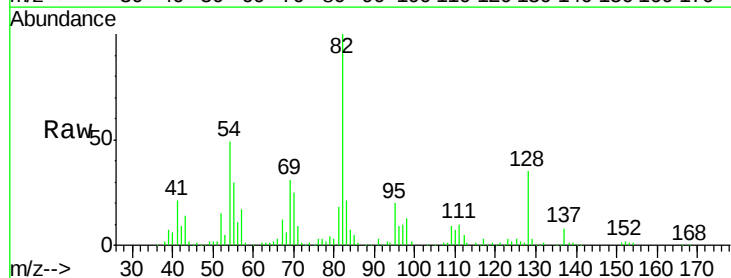
Tgt Ion: 82 Resp: 199070

Ion Ratio Lower Upper

82 100

128 34.6 34.6 52.0

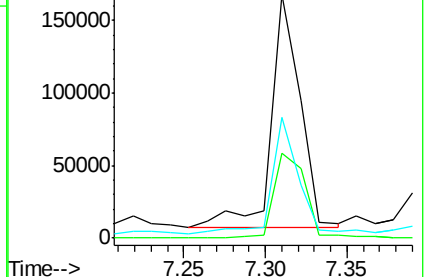
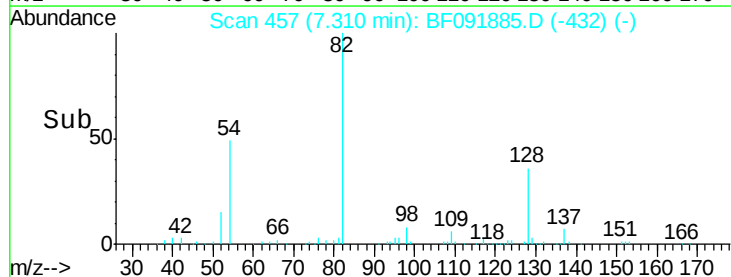
54 49.4 39.5 59.3

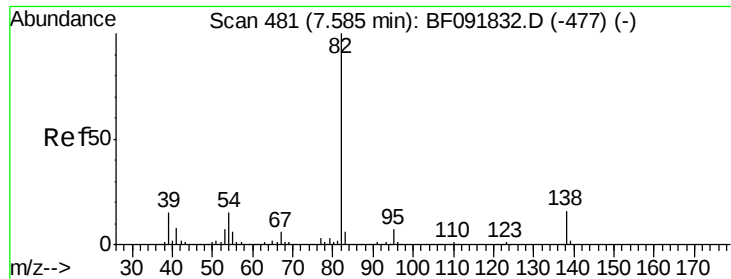


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

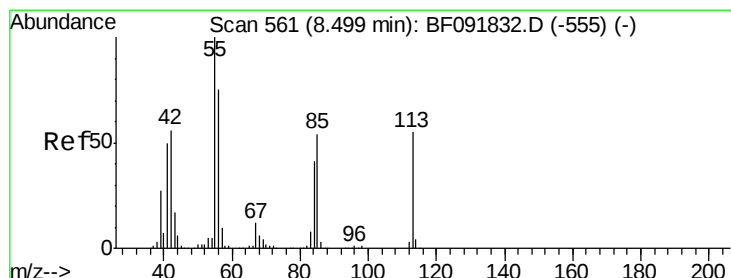
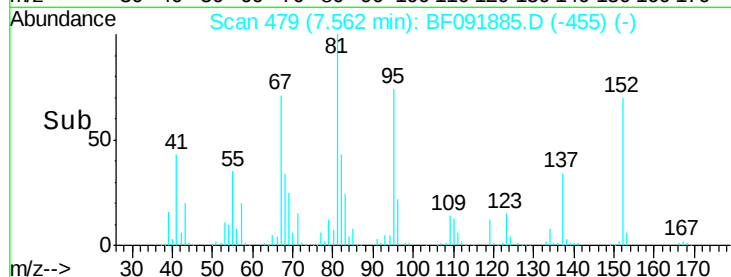
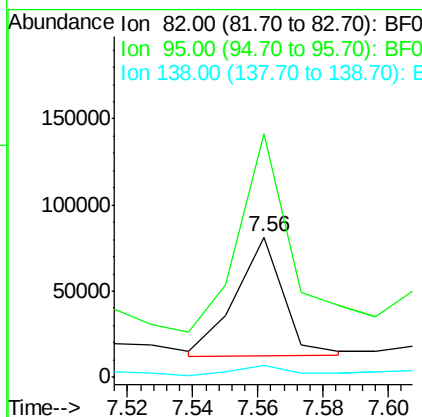
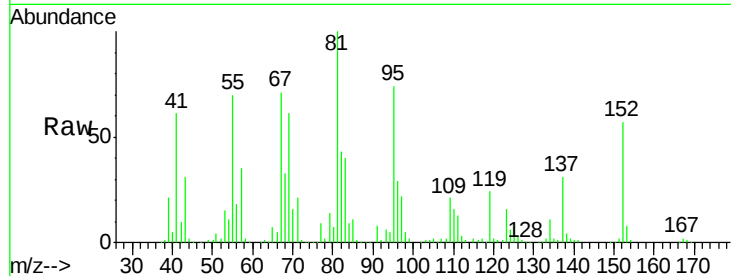




#25
Isophorone
Concen: 2.12 ng
RT: 7.56 min Scan# 479
Delta R.T. -0.02 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

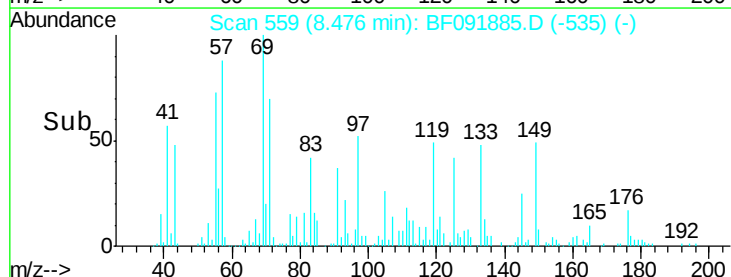
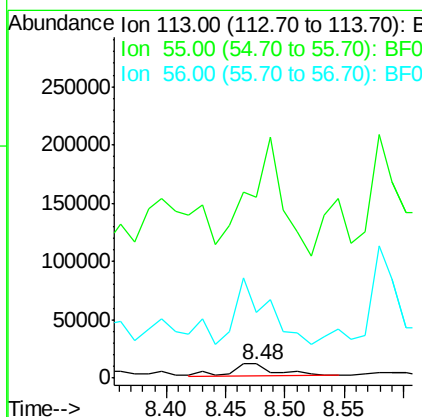
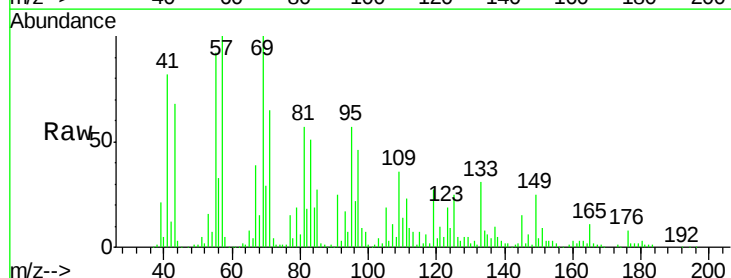
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SB-1(1.5-2.5)RE

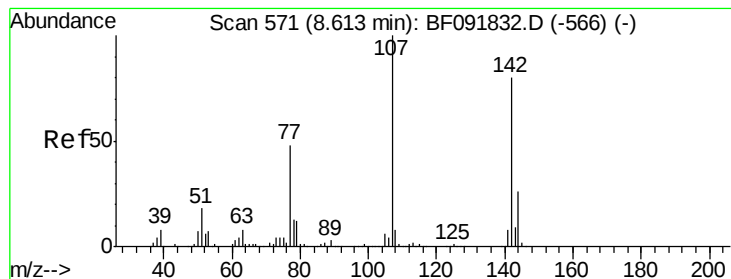
Tgt Ion: 82 Resp: 69135
Ion Ratio Lower Upper
82 100
95 173.3 5.6 8.4#
138 8.5 14.6 22.0#



#35
Caprolactam
Concen: 6.00 ng
RT: 8.48 min Scan# 559
Delta R.T. -0.02 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

Tgt Ion: 113 Resp: 25728
Ion Ratio Lower Upper
113 100
55 1251.4 119.2 159.2#
56 450.7 83.8 123.8#

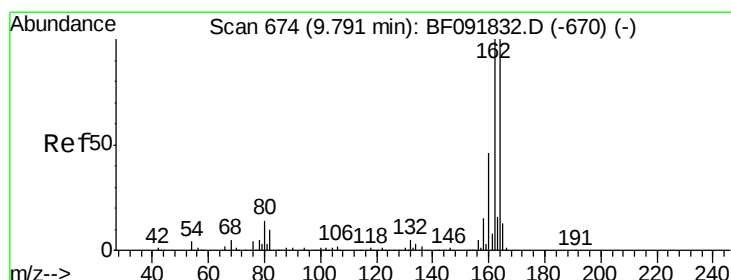
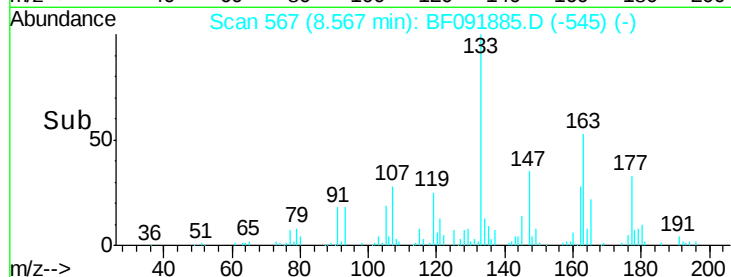
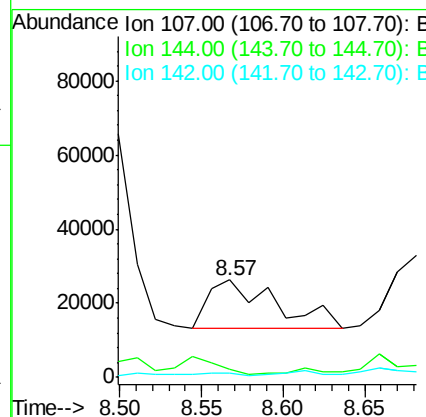
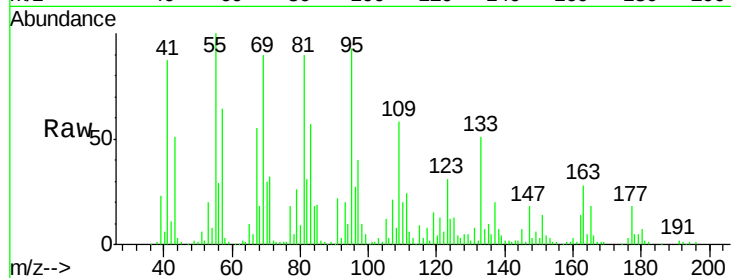




#36
4-Chloro-3-methylphenol
Concen: 2.48 ng
RT: 8.57 min Scan# 567
Delta R.T. -0.05 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

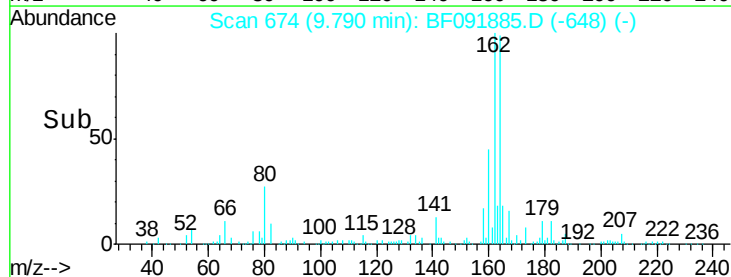
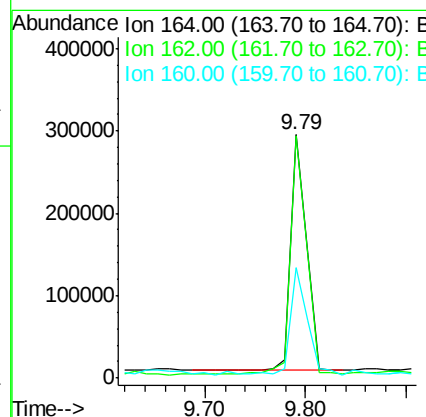
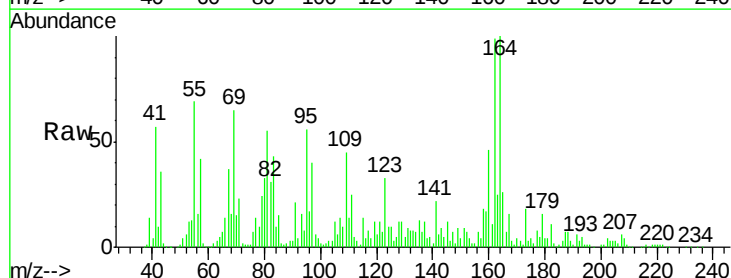
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BNA_F
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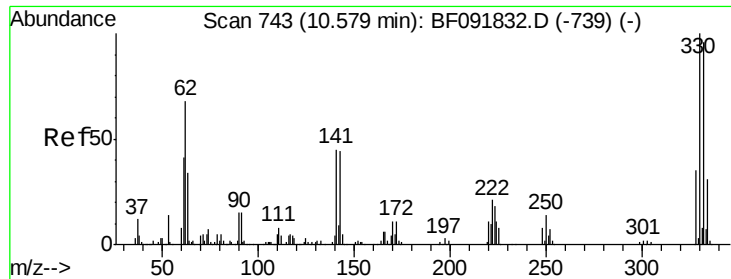
Tgt Ion:107 Resp: 37236
Ion Ratio Lower Upper
107 100
144 8.0 19.3 28.9#
142 4.4 59.0 88.6#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.79 min Scan# 674
Delta R.T. -0.00 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

Tgt Ion:164 Resp: 309087
Ion Ratio Lower Upper
164 100
162 99.3 80.2 120.2
160 45.6 36.9 55.3

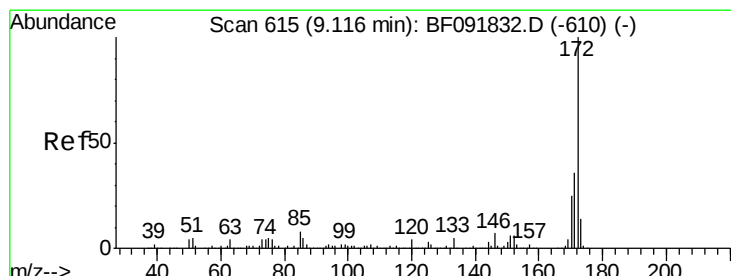
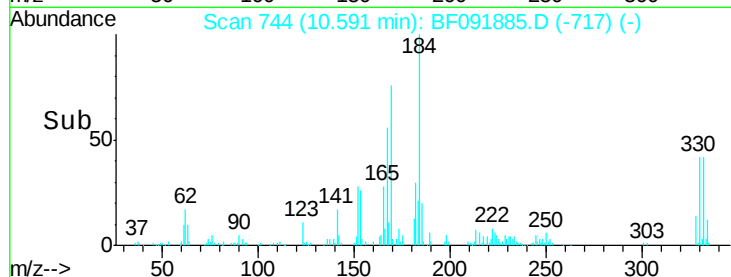
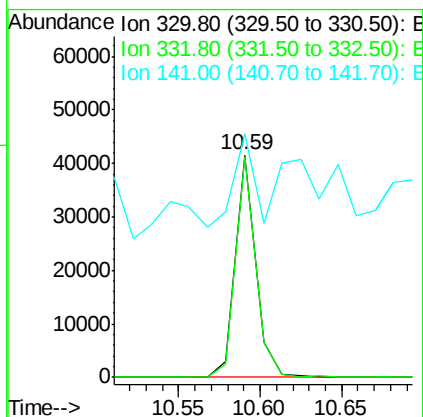
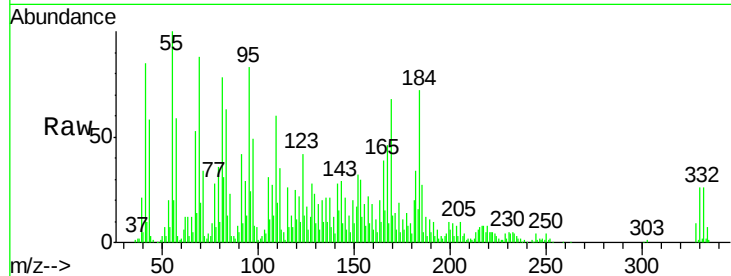




#41
 2,4,6-Tribromophenol
 Concen: 13.92 ng
 RT: 10.59 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: BF091885.D
 Acq: 22 Dec 2016 14:53

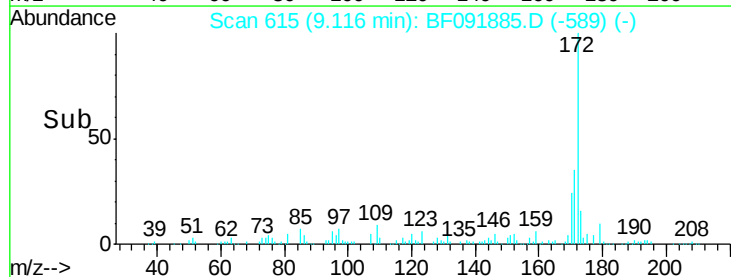
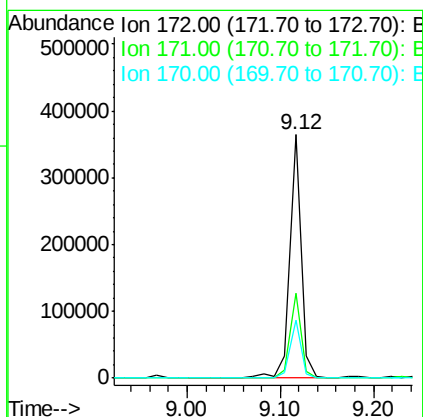
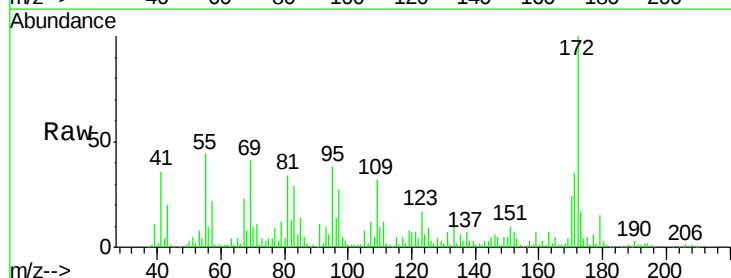
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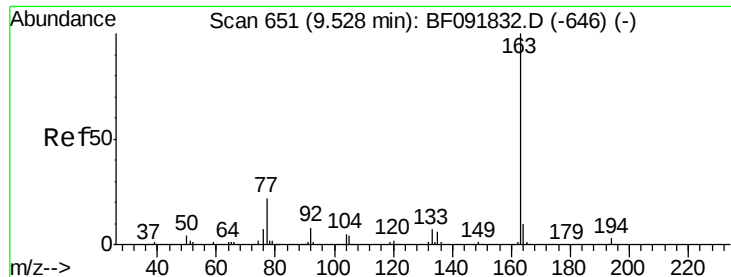
Tgt Ion:330 Resp: 35618
 Ion Ratio Lower Upper
 330 100
 332 98.7 77.4 116.2
 141 41.0 34.1 51.1



#44
 2-Fluorobiphenyl
 Concen: 8.91 ng
 RT: 9.12 min Scan# 615
 Delta R.T. 0.00 min
 Lab File: BF091885.D
 Acq: 22 Dec 2016 14:53

Tgt Ion:172 Resp: 308647
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.4 44.0
 170 24.0 20.2 30.4





#49

Dimethylphthalate

Concen: 4.10 ng

RT: 9.52 min Scan# 650

Delta R.T. -0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

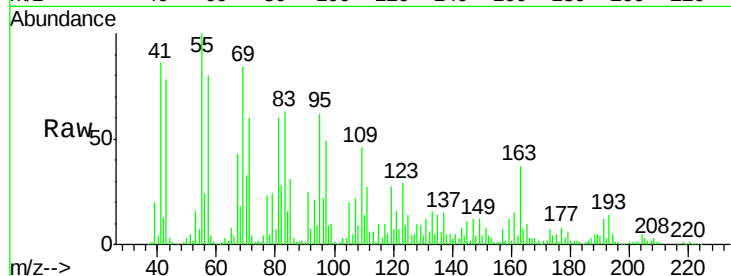
Tgt Ion:163 Resp: 81027

Ion Ratio Lower Upper

163 100

194 12.7 3.0 4.4#

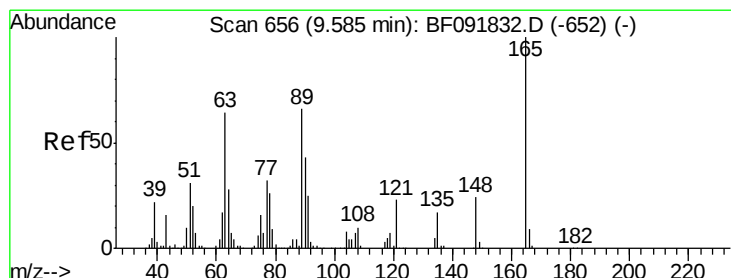
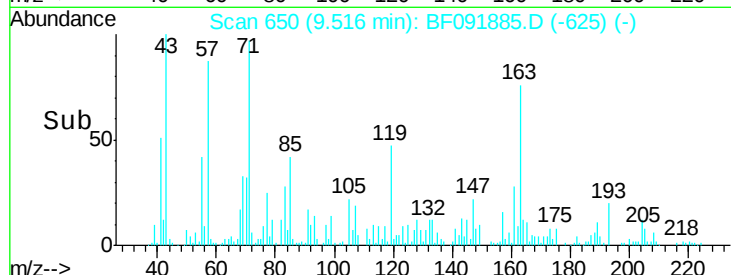
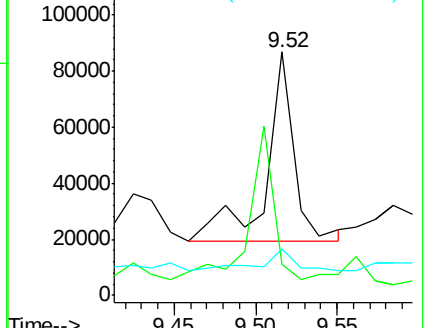
164 19.3 8.0 12.0#



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



#50

2,6-Dinitrotoluene

Concen: 3.21 ng

RT: 9.56 min Scan# 654

Delta R.T. -0.02 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

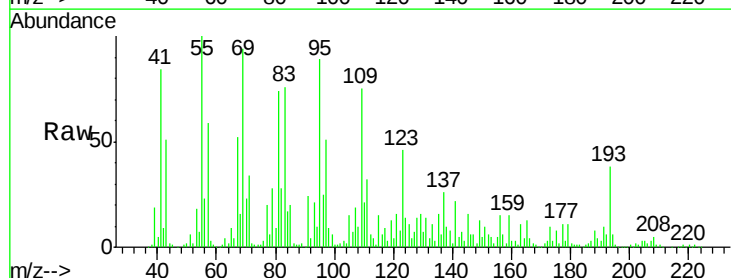
Tgt Ion:165 Resp: 13900

Ion Ratio Lower Upper

165 100

63 30.1 36.2 54.4#

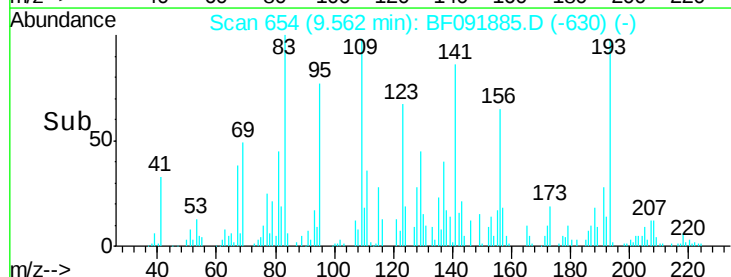
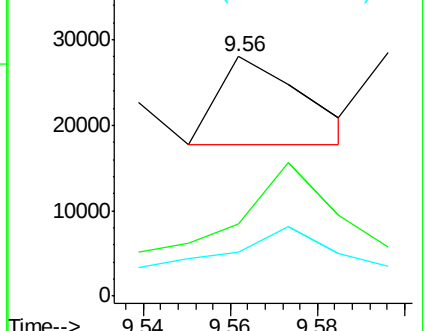
89 18.4 40.2 60.4#

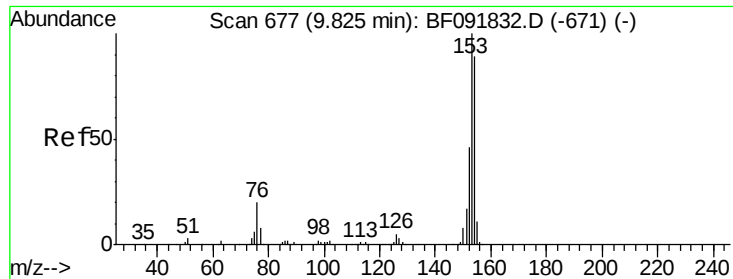


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 4.27 ng

RT: 9.82 min Scan# 677

Delta R.T. -0.00 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

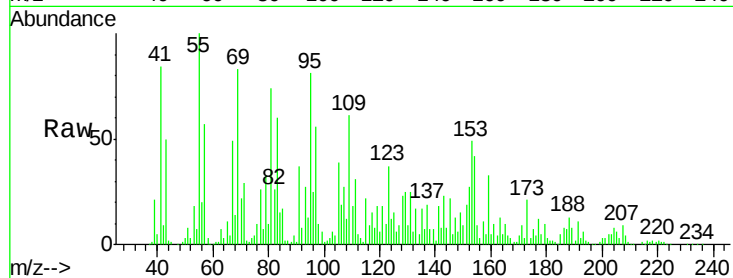
Tgt Ion:154 Resp: 74628

Ion Ratio Lower Upper

154 100

153 117.3 88.6 133.0

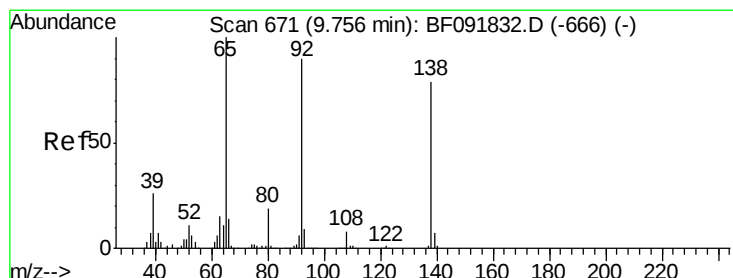
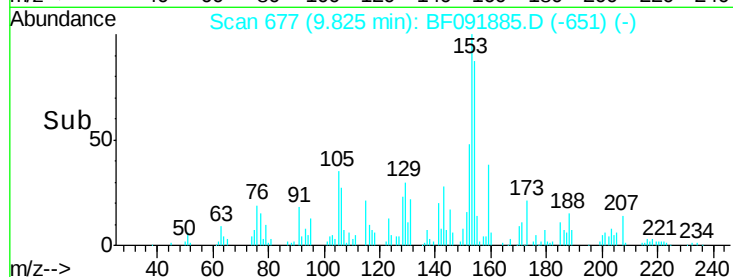
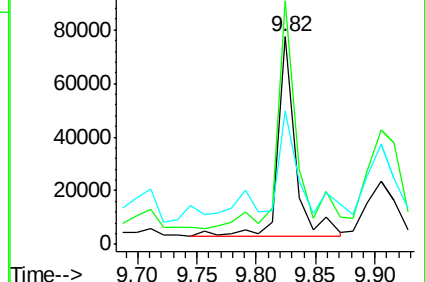
152 64.2 41.6 62.4#



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



#52

3-Nitroaniline

Concen: 6.56 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

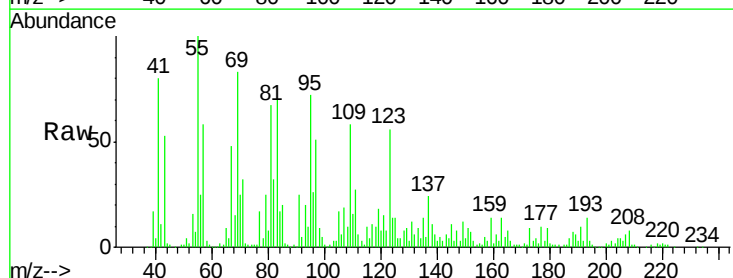
Tgt Ion:138 Resp: 35139

Ion Ratio Lower Upper

138 100

108 83.2 8.5 12.7#

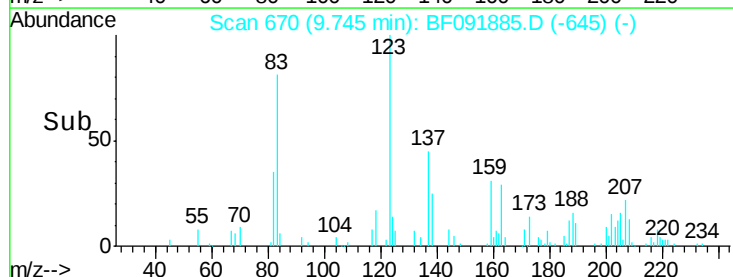
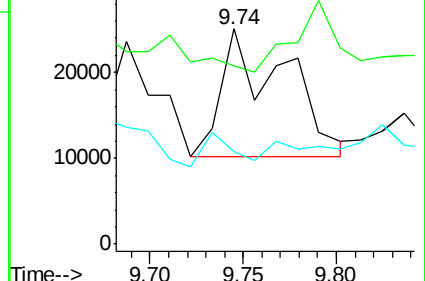
92 42.9 97.8 146.8#

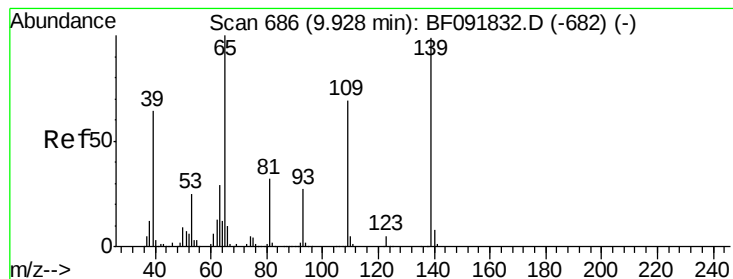


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





#55

4-Nitrophenol

Concen: 8.70 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

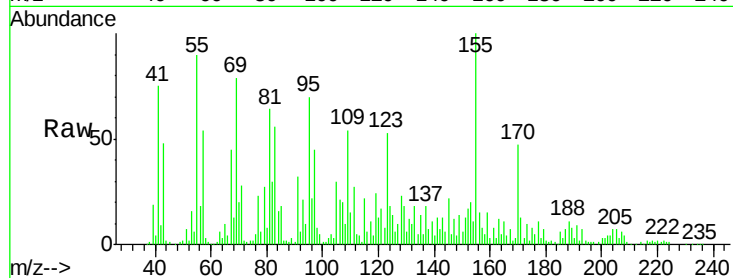
Tgt Ion:139 Resp: 31634

Ion Ratio Lower Upper

139 100

109 491.3 52.2 92.2#

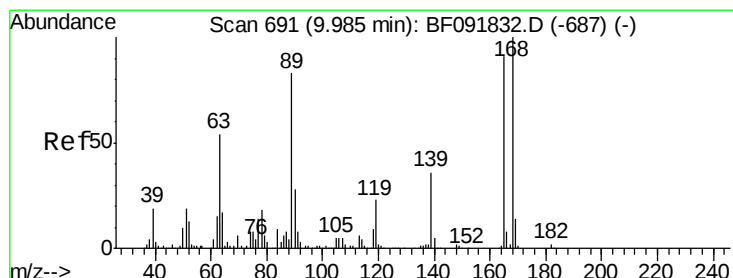
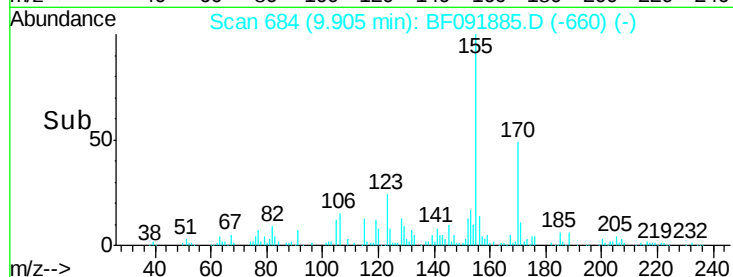
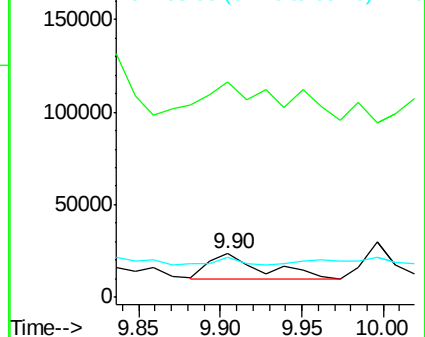
65 91.6 85.8 125.8



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



#56

2,4-Dinitrotoluene

Concen: 3.15 ng

RT: 10.00 min Scan# 692

Delta R.T. 0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Tgt Ion:165 Resp: 17081

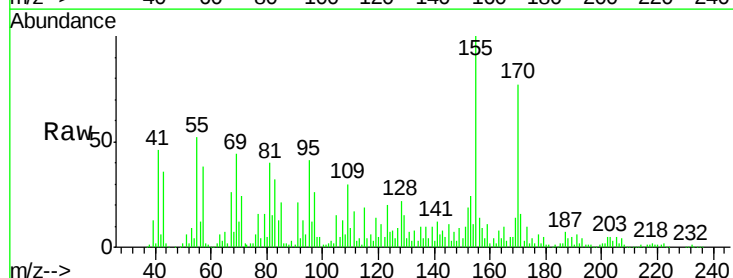
Ion Ratio Lower Upper

165 100

63 56.9 40.2 60.4

89 27.7 62.5 93.7#

182 4.3 1.8 2.8#

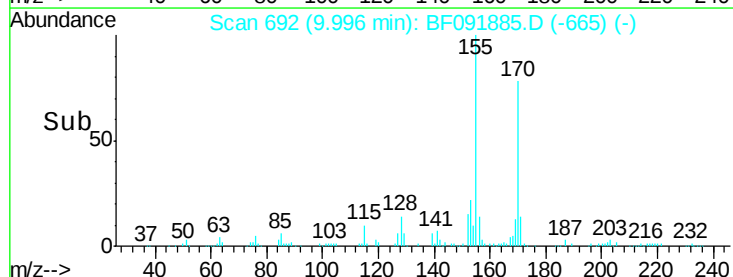
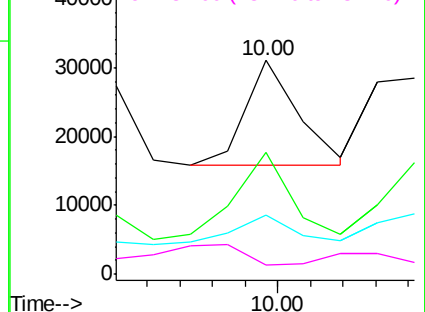


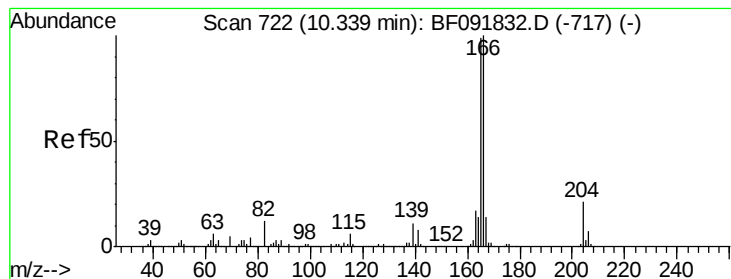
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 2.40 ng

RT: 10.34 min Scan# 722

Delta R.T. -0.00 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

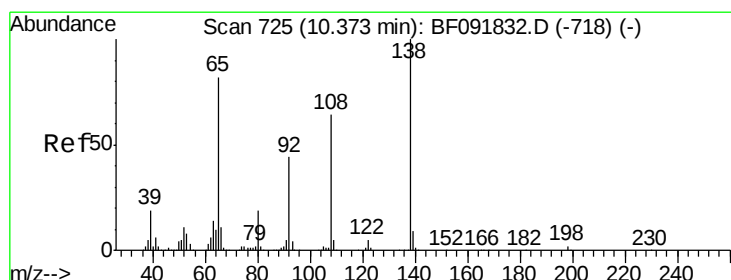
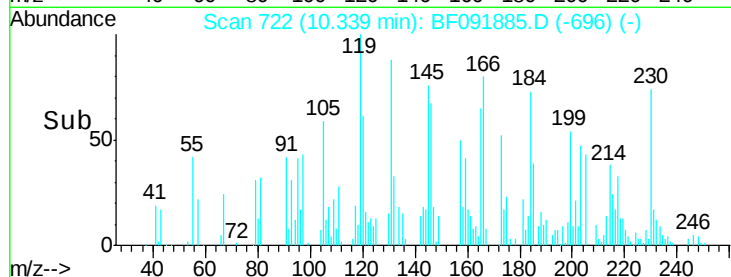
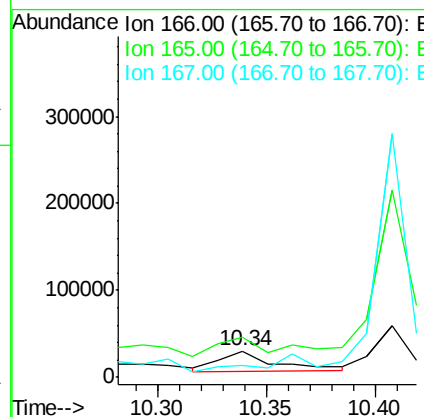
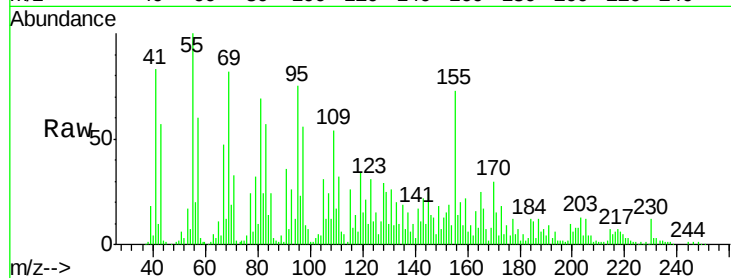
Tgt Ion:166 Resp: 41138

Ion Ratio Lower Upper

166 100

165 152.5 77.8 116.8#

167 44.6 10.8 16.2#



#61

4-Nitroaniline

Concen: 7.41 ng

RT: 10.25 min Scan# 714

Delta R.T. -0.13 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

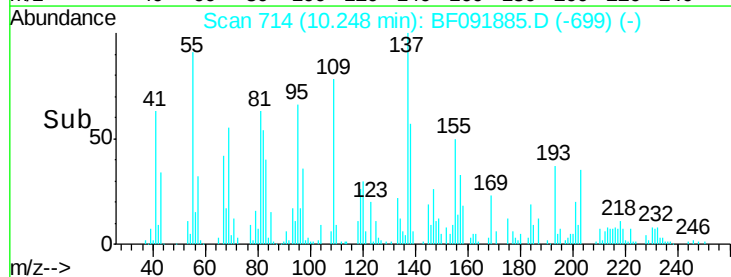
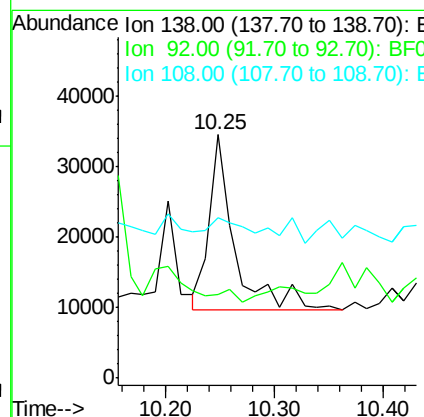
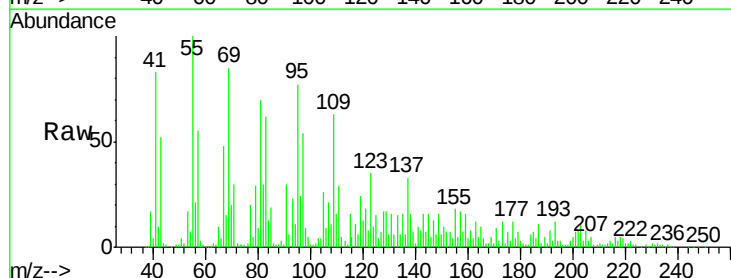
Tgt Ion:138 Resp: 41105

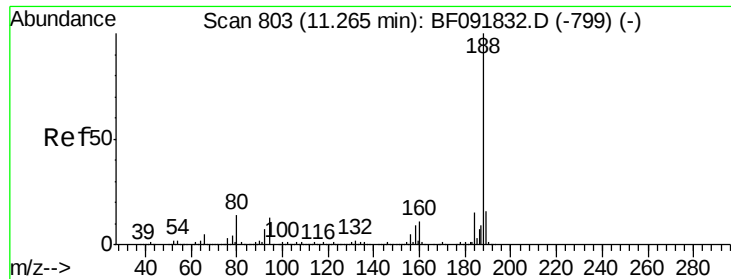
Ion Ratio Lower Upper

138 100

92 34.4 31.7 71.7

108 66.1 52.6 92.6

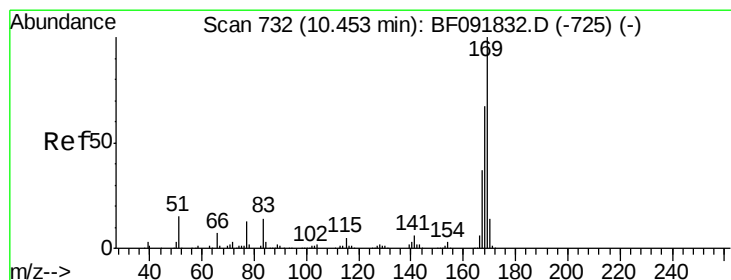
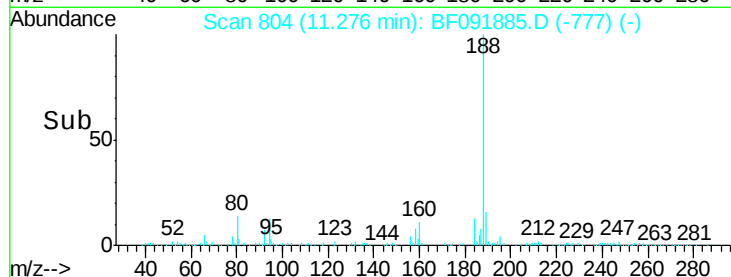
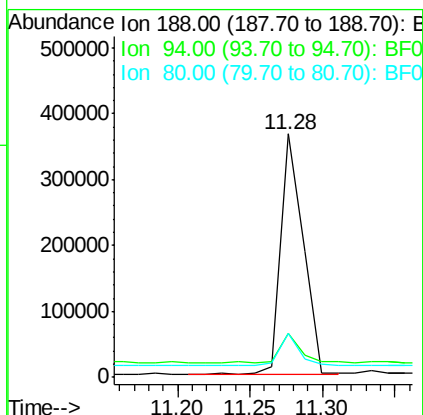
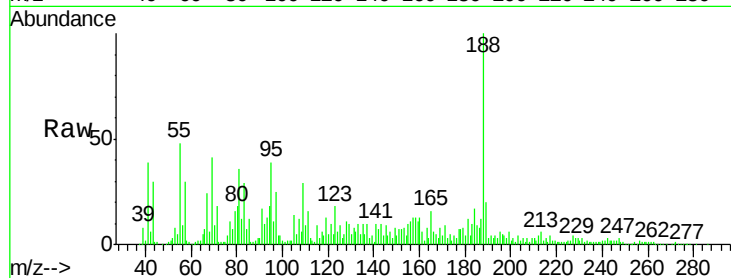




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.28 min Scan# 804
Delta R.T. 0.01 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

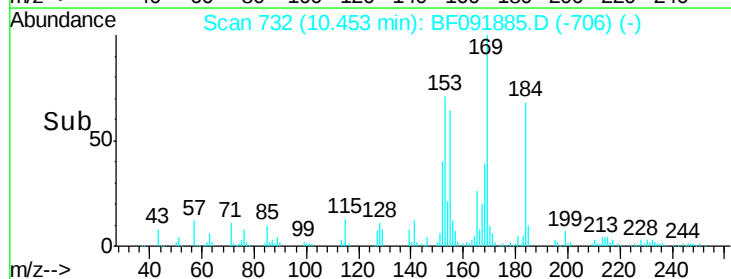
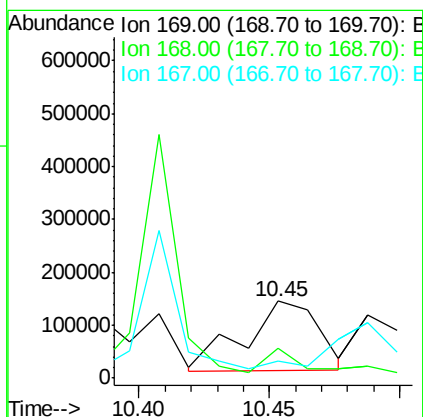
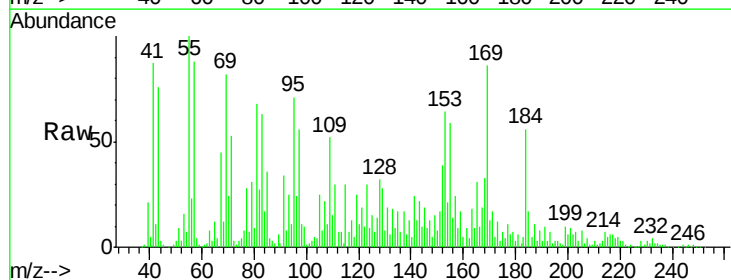
Instrument :
BNA_F
ClientSampleId :
SB-1(1.5-2.5)RE

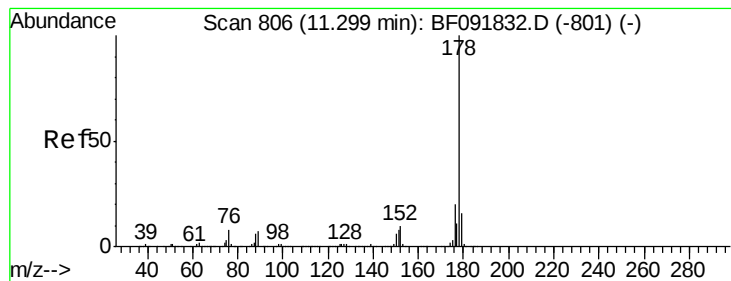
Tgt Ion:188 Resp: 388016
Ion Ratio Lower Upper
188 100
94 17.8 10.0 15.0#
80 18.1 11.2 16.8#



#65
n-Nitrosodiphenylamine
Concen: 22.94 ng
RT: 10.45 min Scan# 732
Delta R.T. -0.00 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

Tgt Ion:169 Resp: 264139
Ion Ratio Lower Upper
169 100
168 38.2 54.2 81.2#
167 22.1 30.2 45.4#





#70

Phenanthrene

Concen: 3.04 ng

RT: 11.30 min Scan# 806

Delta R.T. -0.00 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

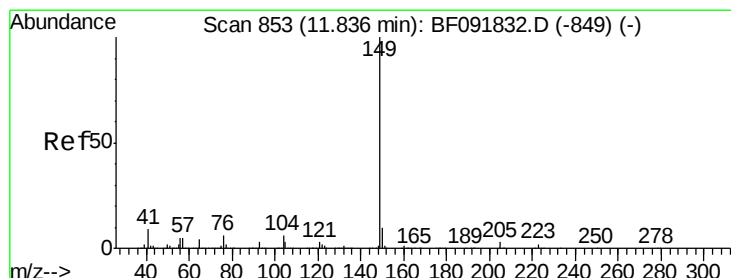
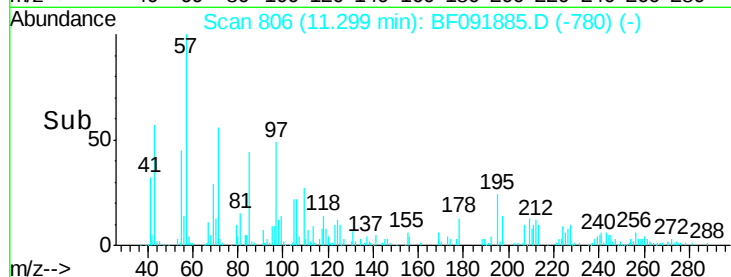
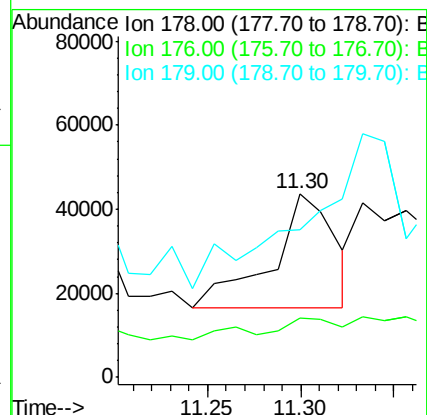
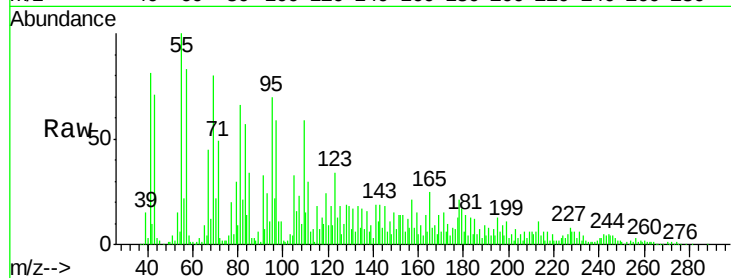
Tgt Ion:178 Resp: 63949

Ion Ratio Lower Upper

178 100

176 32.6 16.6 25.0#

179 80.4 12.8 19.2#



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.82 min Scan# 852

Delta R.T. -0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

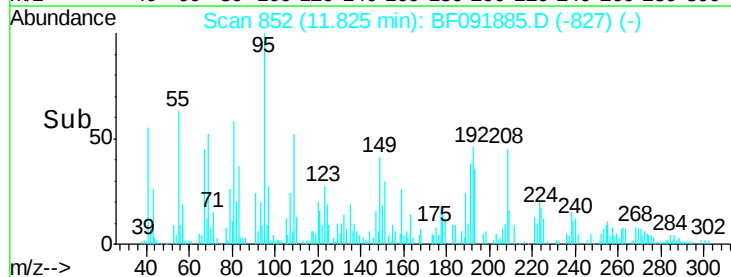
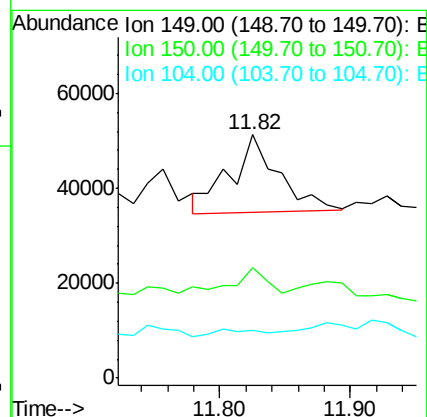
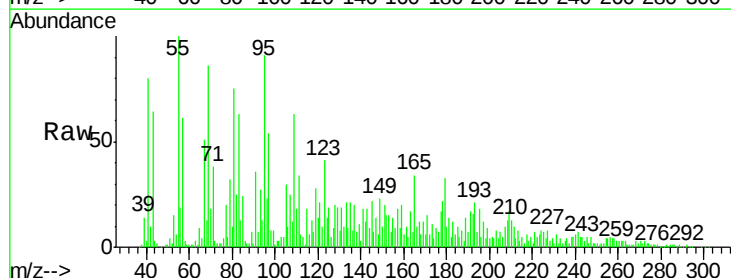
Tgt Ion:149 Resp: 41101

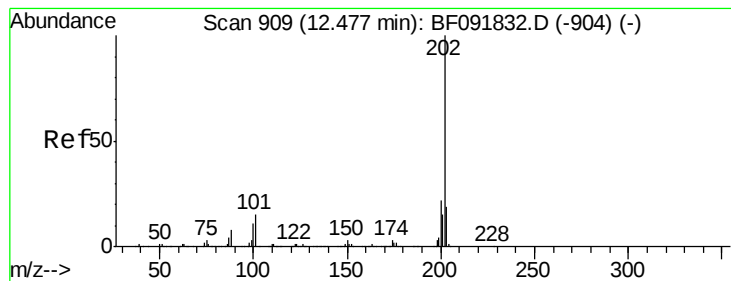
Ion Ratio Lower Upper

149 100

150 45.3 8.1 12.1#

104 19.7 4.6 7.0#





#74

Fluoranthene

Concen: 9.24 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.25 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

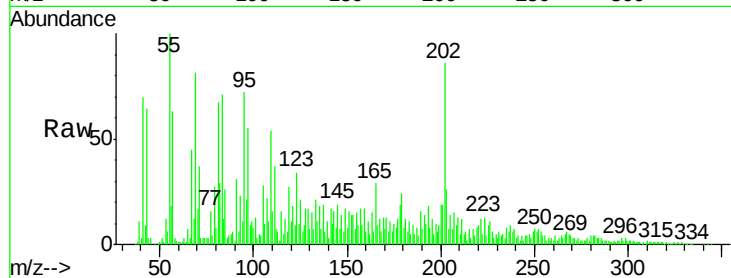
Tgt Ion:202 Resp: 226654

Ion Ratio Lower Upper

202 100

101 14.9 0.0 34.6

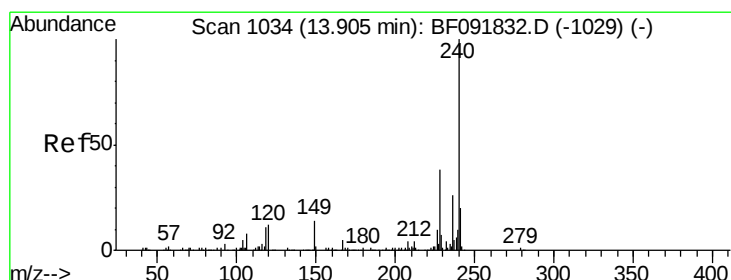
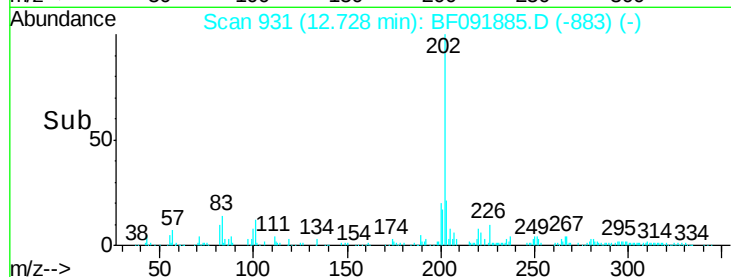
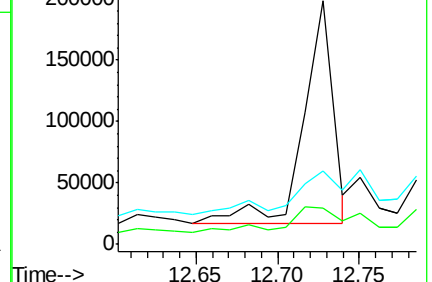
203 30.0 0.0 38.7



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: 13.93 min Scan# 1036

Delta R.T. 0.02 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

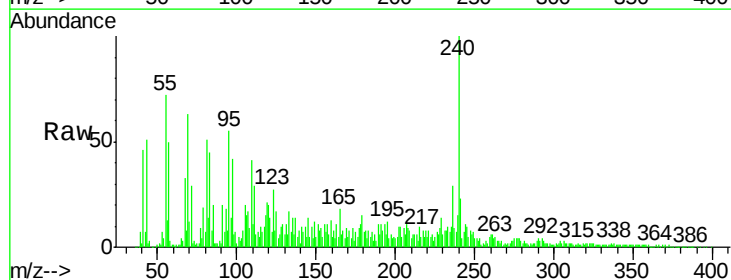
Tgt Ion:240 Resp: 331352

Ion Ratio Lower Upper

240 100

120 20.3 12.9 19.3#

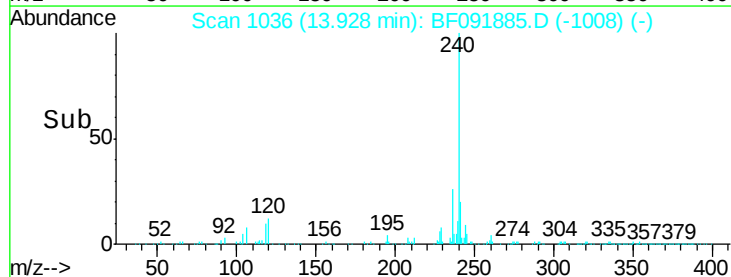
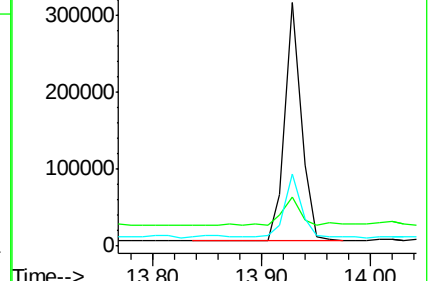
236 29.4 20.9 31.3

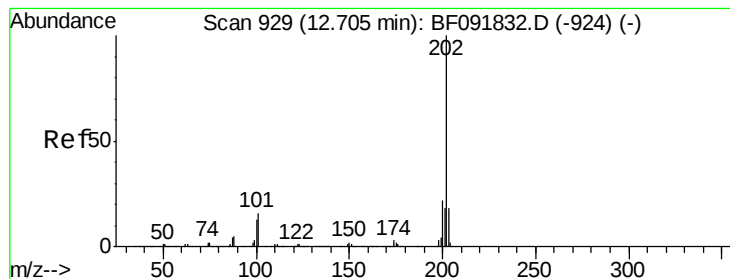


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 10.95 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.02 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

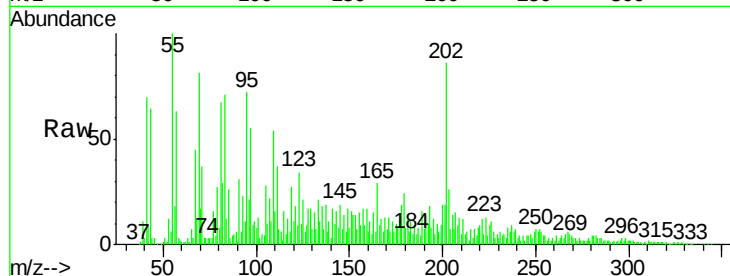
Tgt Ion:202 Resp: 266227

Ion Ratio Lower Upper

202 100

200 22.6 17.7 26.5

203 30.0 14.7 22.1#



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

250000

200000

150000

100000

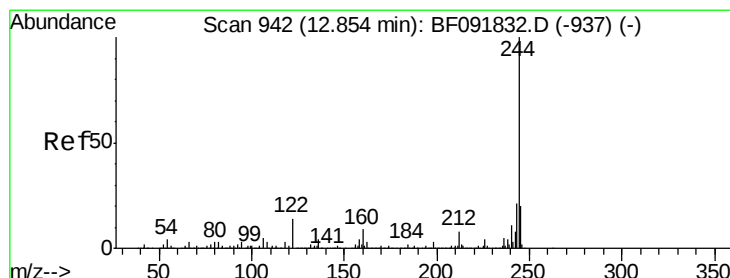
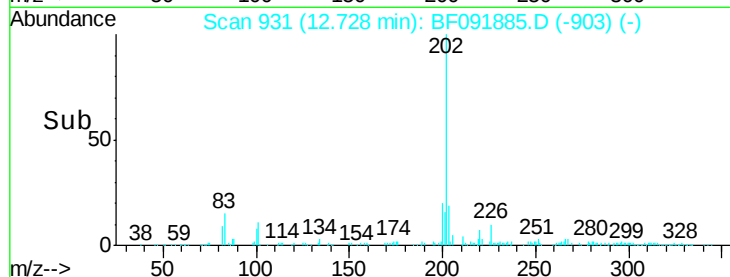
50000

0

12.60 12.70 12.80

12.73

Time-->



#78

Terphenyl-d14

Concen: 10.91 ng

RT: 12.87 min Scan# 943

Delta R.T. 0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

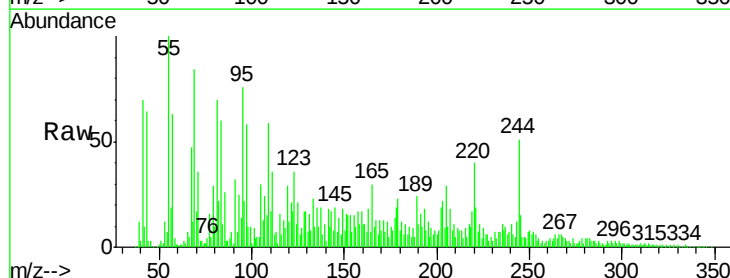
Tgt Ion:244 Resp: 149036

Ion Ratio Lower Upper

244 100

212 14.9 6.2 9.2#

122 34.0 11.4 17.2#



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

150000

100000

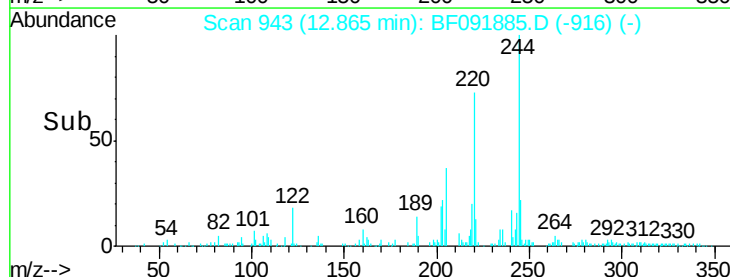
50000

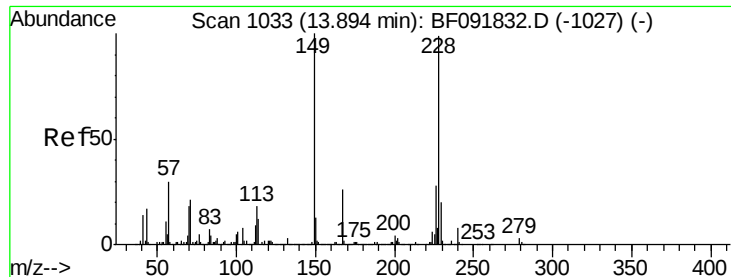
0

12.80 12.90 13.00

12.87

Time-->





#80

Benzo(a)anthracene

Concen: 7.20 ng

RT: 13.94 min Scan# 1037

Delta R.T. 0.05 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

Instrument :

BNA_F

ClientSampleId :

SB-1(1.5-2.5)RE

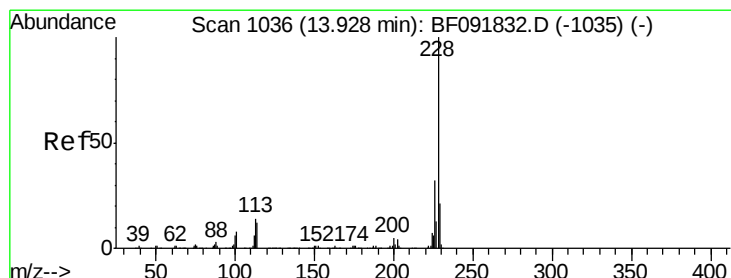
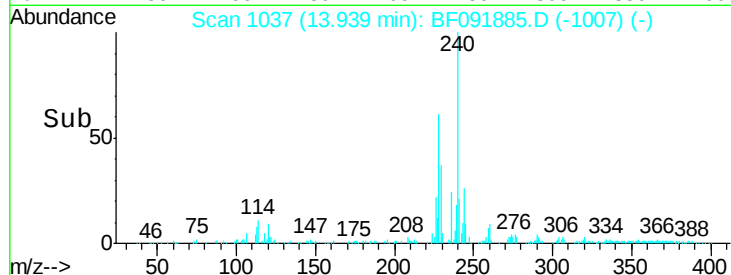
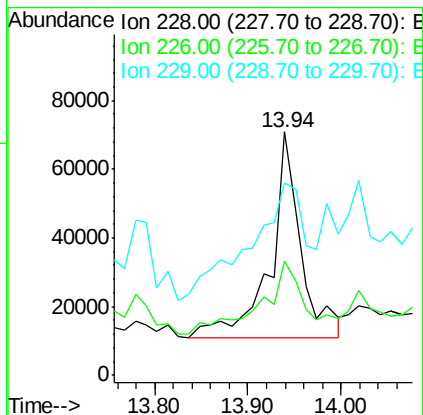
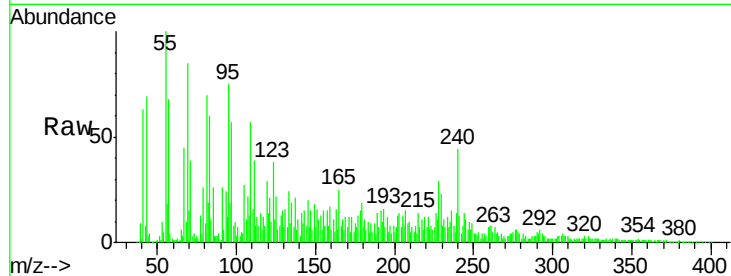
Tgt Ion:228 Resp: 134707

Ion Ratio Lower Upper

228 100

226 46.7 22.4 33.6#

229 79.1 16.2 24.4#



#82

Chrysene

Concen: 7.18 ng

RT: 13.94 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BF091885.D

Acq: 22 Dec 2016 14:53

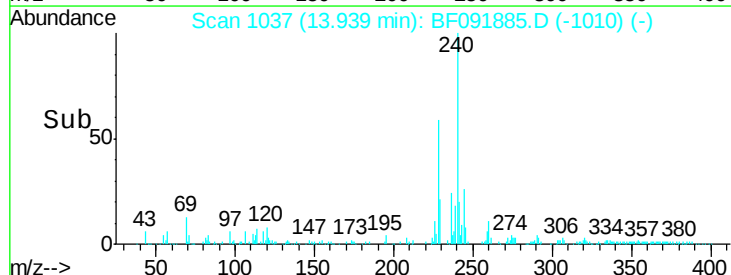
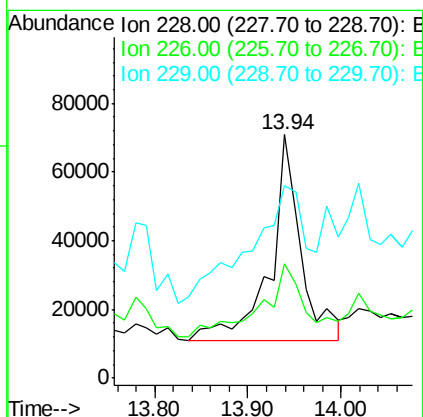
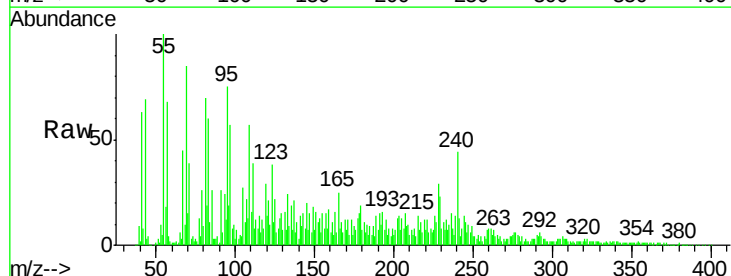
Tgt Ion:228 Resp: 134707

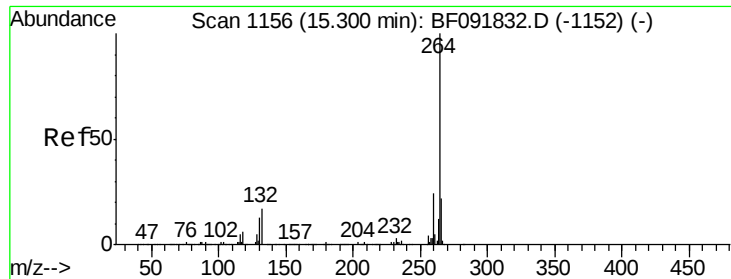
Ion Ratio Lower Upper

228 100

226 46.7 25.4 38.0#

229 79.1 16.2 24.2#

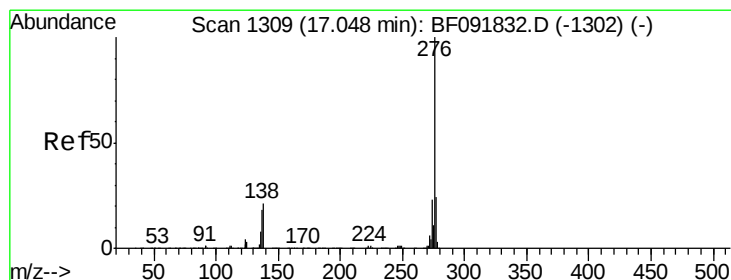
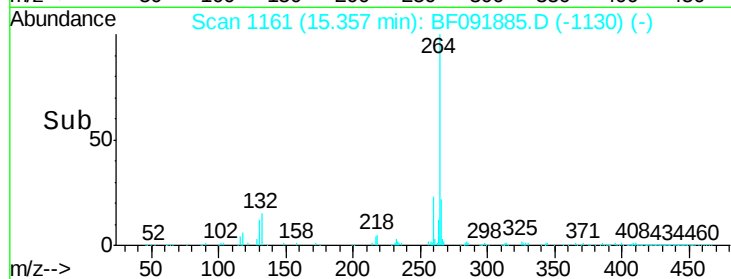
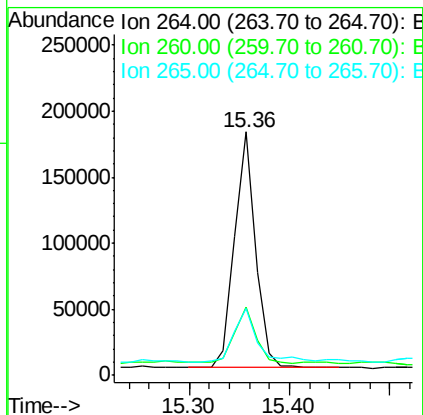
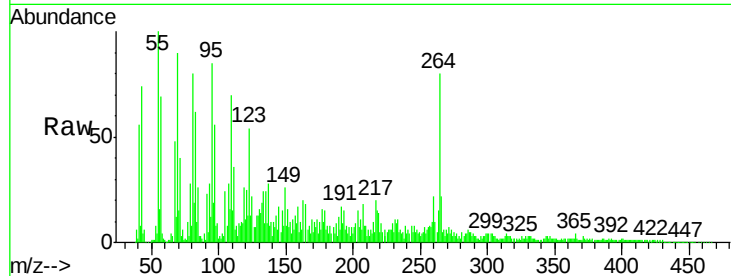




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 1161
Delta R.T. 0.06 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

Instrument :
BNA_F
ClientSampleId :
SB-1(1.5-2.5)RE

Tgt Ion: 264 Resp: 260271
Ion Ratio Lower Upper
264 100
260 28.0 19.2 28.8
265 27.5 17.4 26.0#



#91
Benzo(g,h,i)perylene
Concen: 2.08 ng
RT: 17.12 min Scan# 1315
Delta R.T. 0.07 min
Lab File: BF091885.D
Acq: 22 Dec 2016 14:53

Tgt Ion: 276 Resp: 25563
Ion Ratio Lower Upper
276 100
277 49.9 19.2 28.8#
138 76.6 16.0 24.0#

