

Data Path : Z:\HPCHEM1\BNA F\Data\BF040717\
 Data File : BF094273.D
 Acq On : 7 Apr 2017 15:18
 Operator : SJ/MA
 Sample : I2569-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT3456-275030

Quant Time: Apr 07 16:34:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 06 13:20:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.845	152	169730	20.00	ng	-0.01
21) Naphthalene-d8	7.345	136	662614	20.00	ng	-0.02
38) Acenaphthene-d10	9.486	164	267849	20.00	ng	-0.01
63) Phenanthrene-d10	11.321	188	462121	20.00	ng	0.00
75) Chrysene-d12	14.562	240	295836	20.00	ng	-0.01
86) Perylene-d12	16.198	264	255047	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.387	112	1159520	115.39	ng	0.00
7) Phenol-d6	5.457	99	1479930	119.05	ng	0.00
23) Nitrobenzene-d5	6.498	82	915684	78.86	ng	-0.01
41) 2,4,6-Tribromophenol	10.469	330	278777	131.71	ng	0.00
44) 2-Fluorobiphenyl	8.675	172	1354121	77.11	ng	-0.01
78) Terphenyl-d14	13.292	244	917418	69.51	ng	0.00

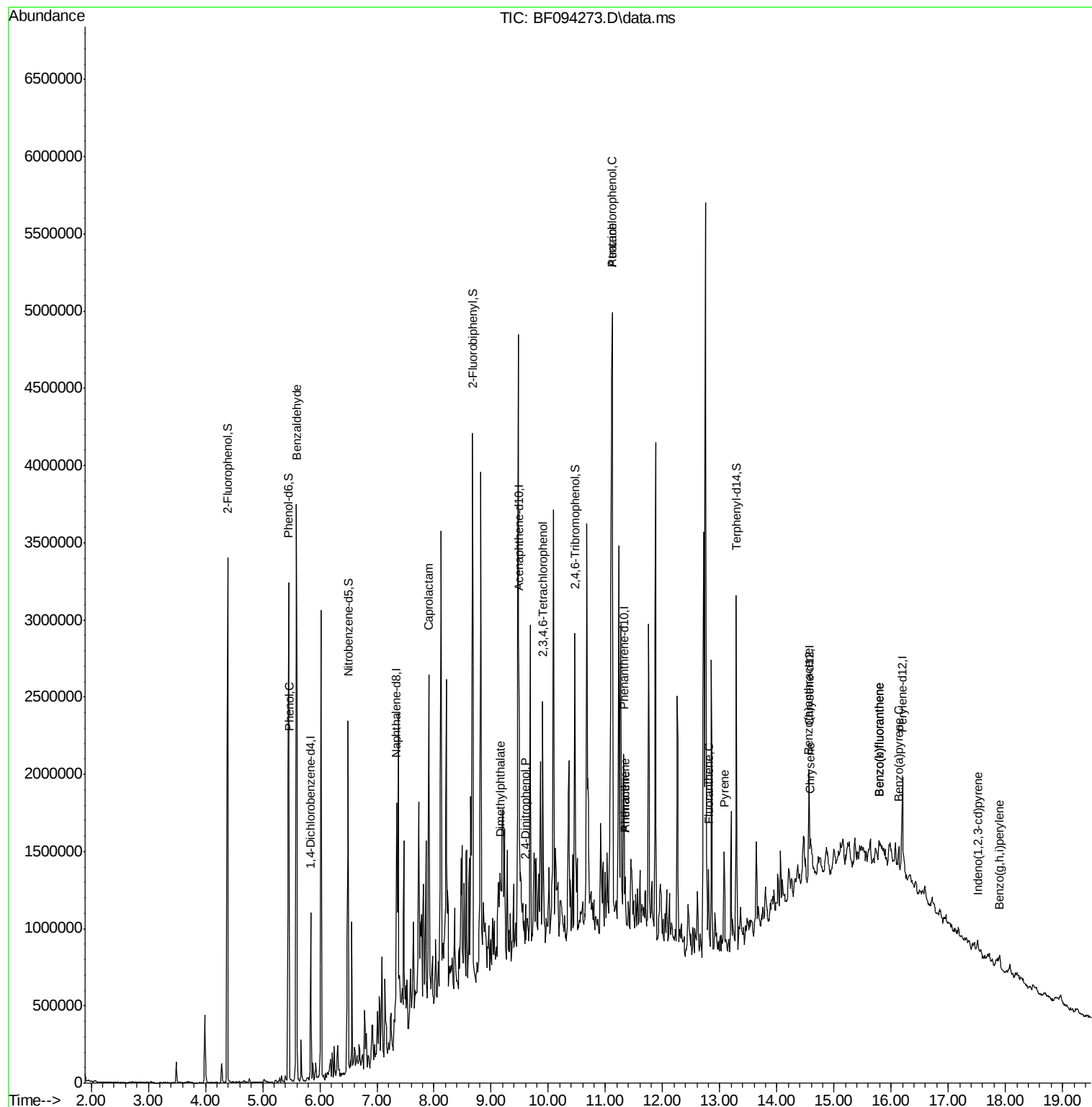
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	5.592	77	26348	3.14	ng	83
10) Phenol	5.469	94	105891	7.49	ng	88
35) Caprolactam	7.910	113	45424	16.19	ng	# 1
49) Dimethylphthalate	9.169	163	179694	9.44	ng	# 98
53) 2,4-Dinitrophenol	9.604	184	240	4.76	ng	# 1
58) 2,3,4,6-Tetrachlorophenol	9.904	232	147643	38.36	ng	# 95
68) Atrazine	11.121	200	234357	48.96	ng	# 38
69) Pentachlorophenol	11.121	266	1160252	405.16	ng	100
70) Phenanthrene	11.345	178	123262	4.79	ng	98
71) Anthracene	11.345	178	123262	4.66	ng	99
74) Fluoranthene	12.804	202	226840	8.62	ng	99
77) Pyrene	13.080	202	232369	10.82	ng	98
80) Benzo(a)anthracene	14.551	228	81800	4.74	ng	95
82) Chrysene	14.592	228	89016	5.56	ng	96
85) Indeno(1,2,3-cd)pyrene	17.515	276	50161	3.62	ng	96
87) Benzo(b)fluoranthene	15.792	252	129591	8.29	ng	# 65
88) Benzo(k)fluoranthene	15.792	252	129591	8.47	ng	# 68
89) Benzo(a)pyrene	16.133	252	71585	4.97	ng	# 64
91) Benzo(a,h,i)perylene	17.903	276	50970	4.15	ng	# 89

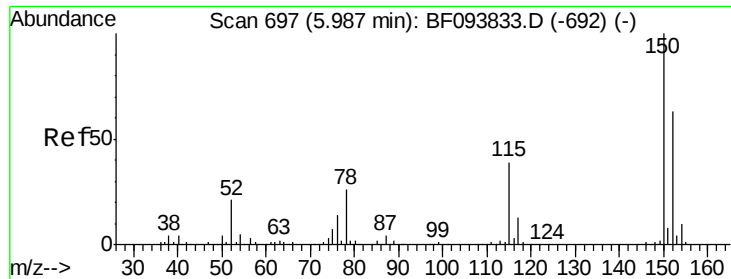
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.845 min Scan# 67

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

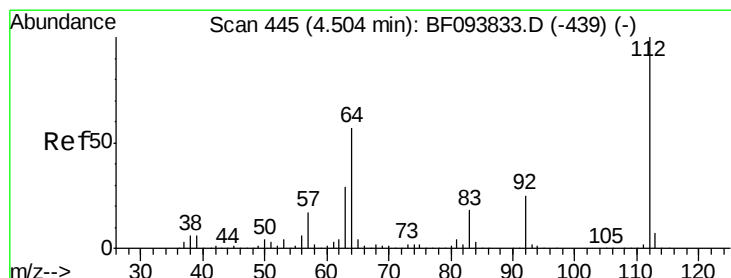
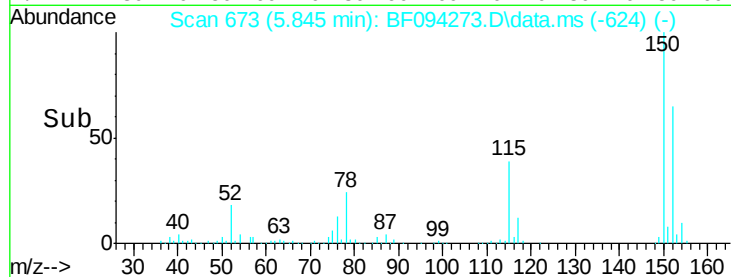
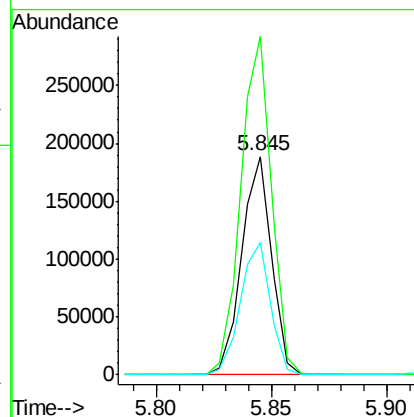
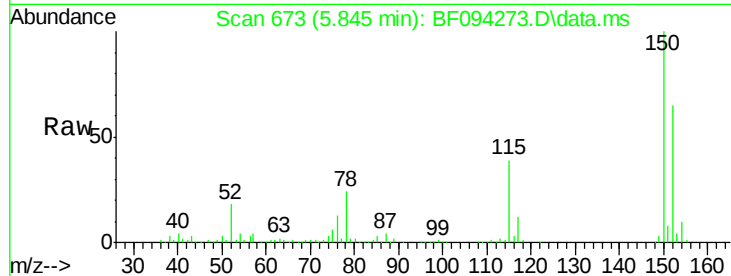
Tot Ion:152 Resp: 169730

Ion Ratio Lower Upper

152 100

150 154.9 126.2 189.2

115 60.6 52.2 78.2



#5

2-Fluorophenol

Concen: 115.39 ng

RT: 4.387 min Scan# 425

Delta R.T. -0.000 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

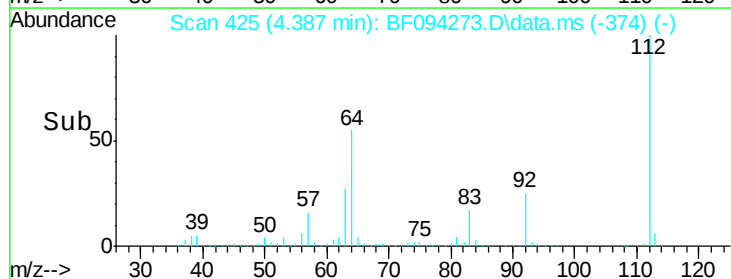
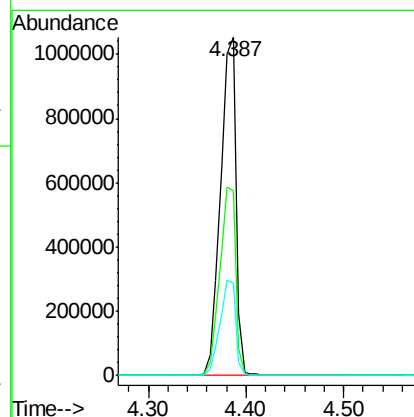
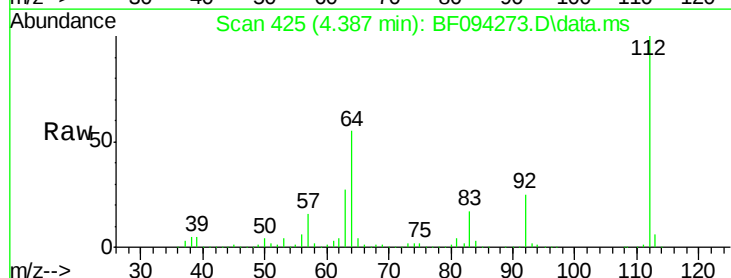
Tgt Ion:112 Resp: 1159520

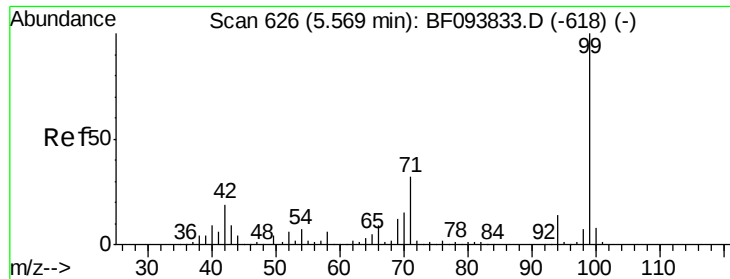
Ion Ratio Lower Upper

112 100

64 54.5 46.0 69.0

63 27.3 23.4 35.0





#7

Phenol-d6

Concen: 119.05 ng

RT: 5.457 min Scan# 60

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

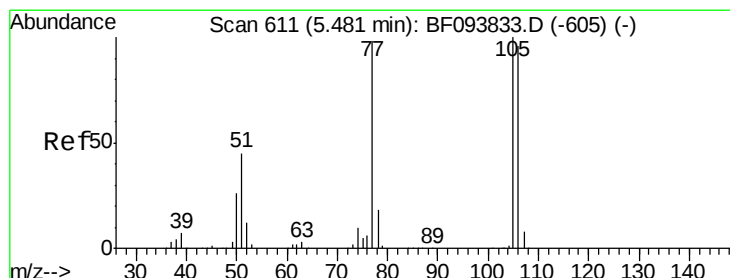
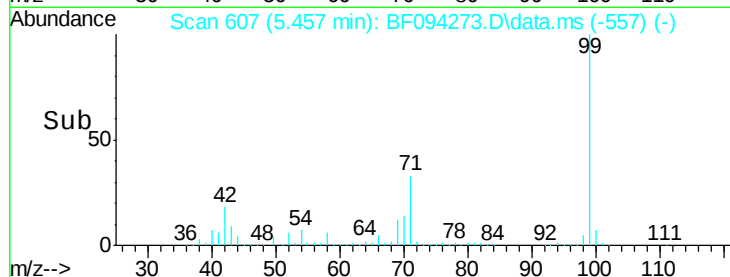
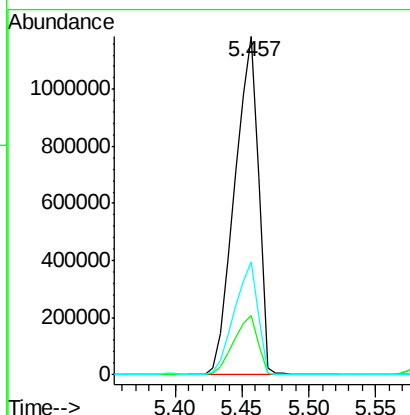
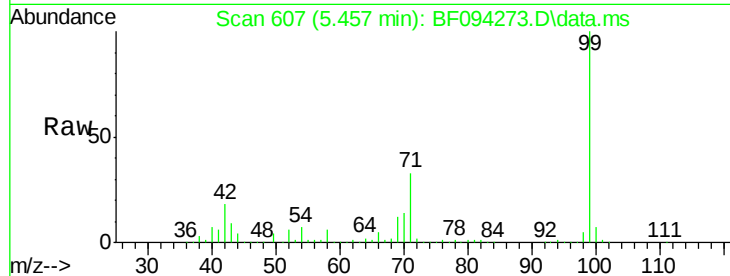
Tot Ion: 99 Resp: 1479930

Ion Ratio Lower Upper

99 100

42 17.5 13.5 20.3

71 33.3 24.5 36.7



#9

Benzaldehyde

Concen: 3.14 ng

RT: 5.592 min Scan# 630

Delta R.T. 0.241 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

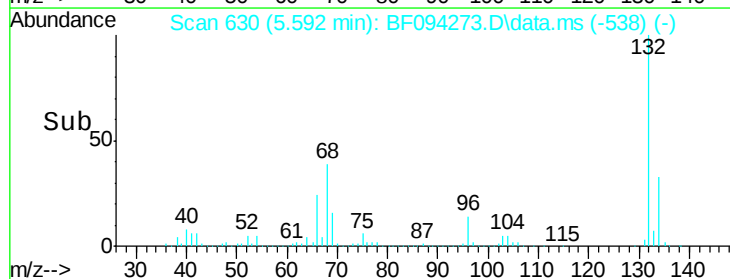
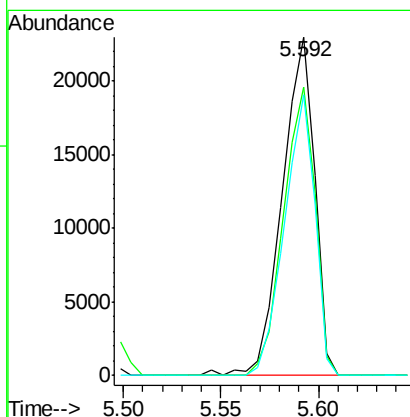
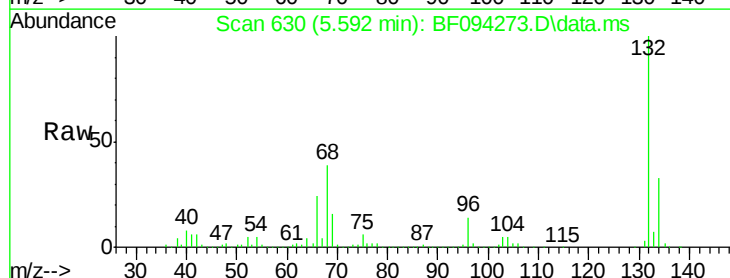
Tgt Ion: 77 Resp: 26348

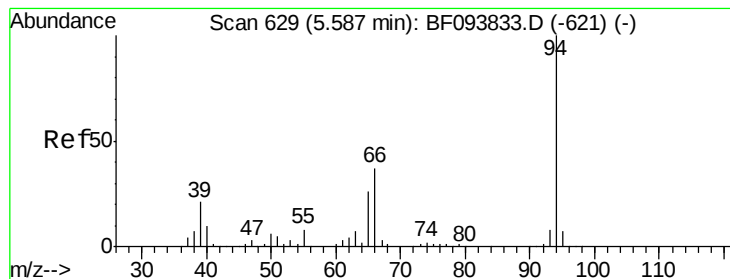
Ion Ratio Lower Upper

77 100

105 85.4 83.8 123.8

106 83.1 79.1 119.1





#10

Phenol

Concen: 7.49 ng

RT: 5.469 min Scan# 60

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

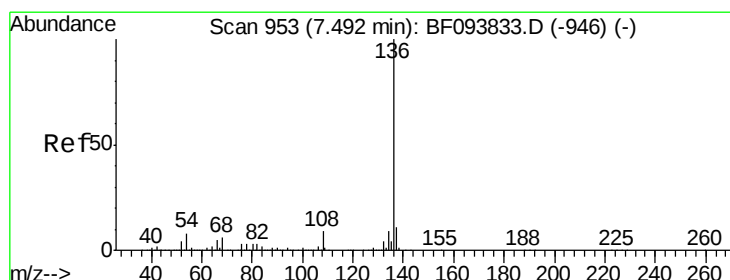
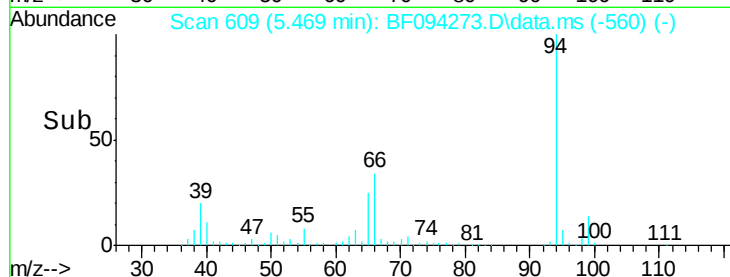
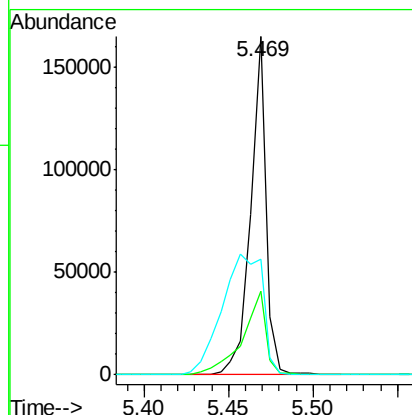
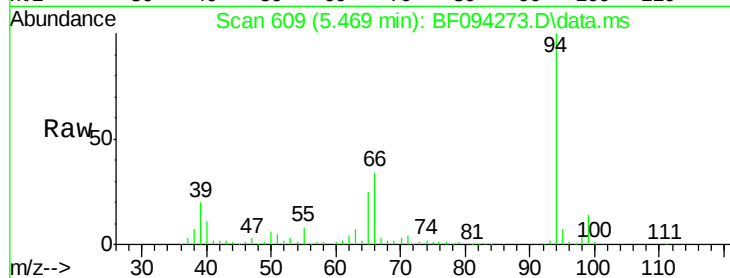
Tot Ion: 94 Resp: 105891

Ion Ratio Lower Upper

94 100

65 24.8 9.9 49.9

66 34.2 23.1 63.1



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.345 min Scan# 928

Delta R.T. -0.018 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Tgt Ion: 136 Resp: 662614

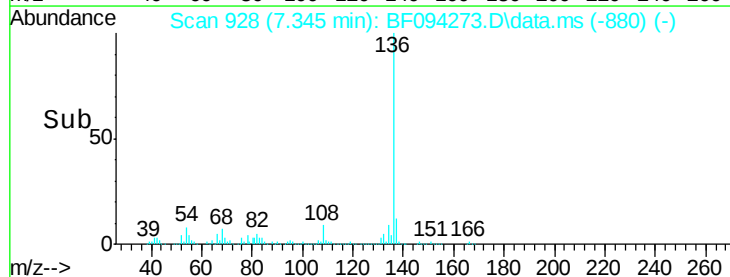
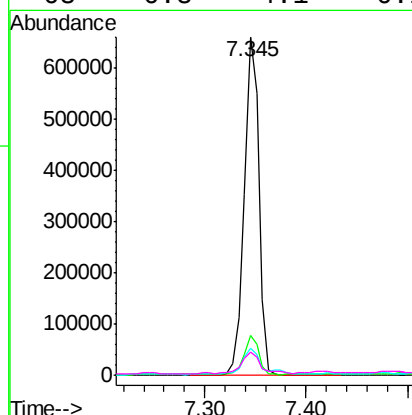
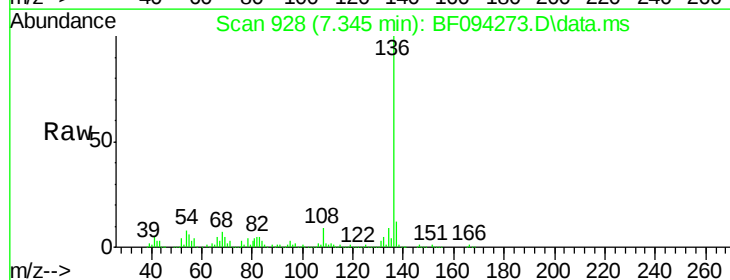
Ion Ratio Lower Upper

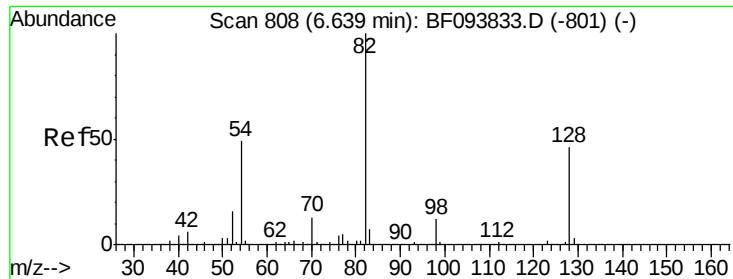
136 100

137 11.7 8.5 12.7

54 8.1 4.9 7.3#

68 6.8 4.1 6.1#





#23

Nitrobenzene-d5

Concen: 78.86 ng

RT: 6.498 min Scan# 78

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

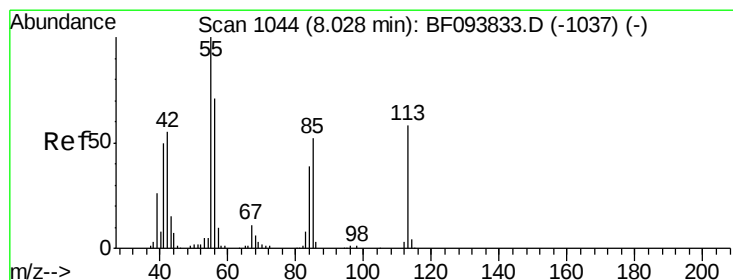
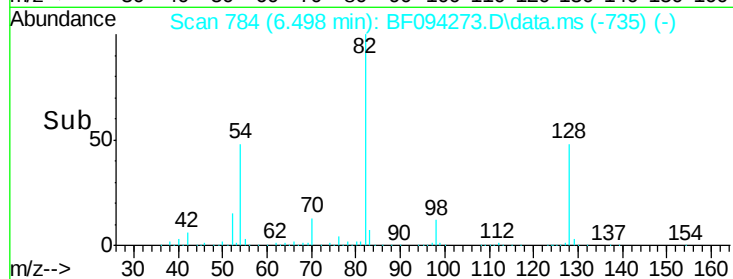
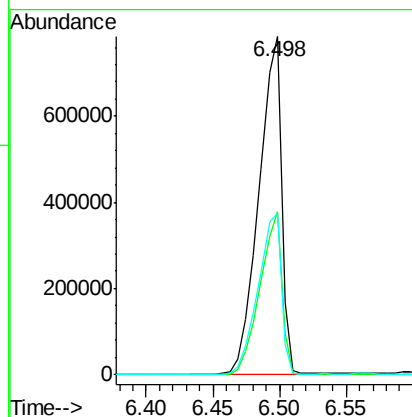
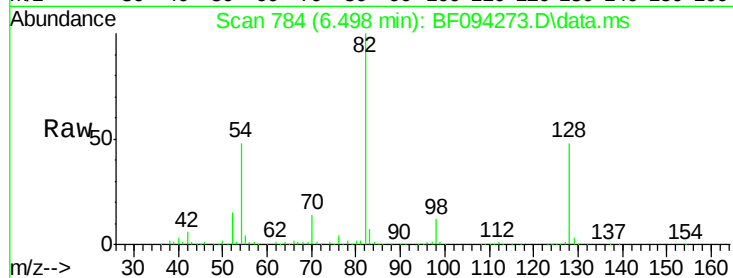
Tot Ion: 82 Resp: 915684

Ion Ratio Lower Upper

82 100

128 48.0 34.0 51.0

54 47.9 42.2 63.2



#35

Caprolactam

Concen: 16.19 ng

RT: 7.910 min Scan# 1024

Delta R.T. -0.000 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

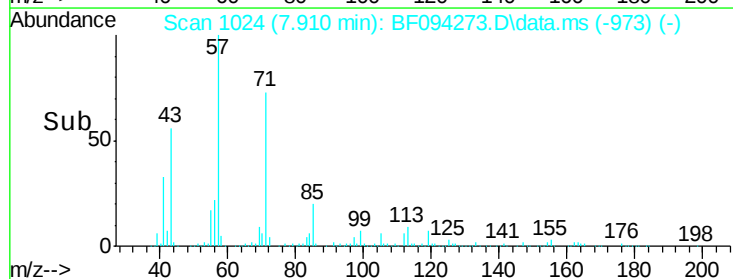
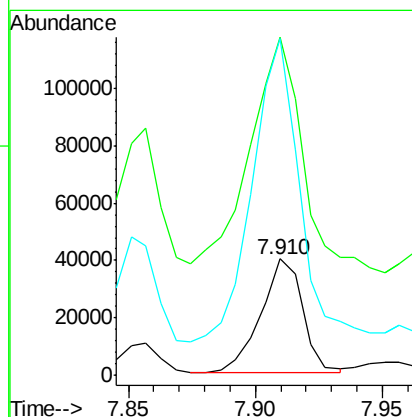
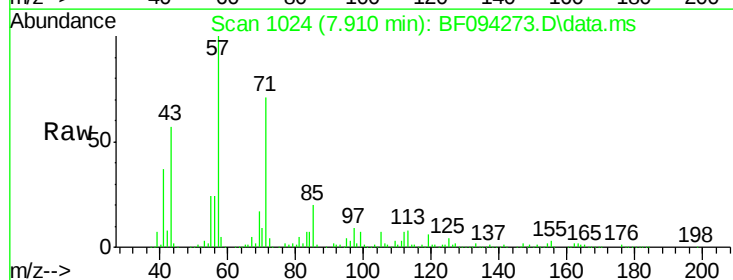
Tgt Ion: 113 Resp: 45424

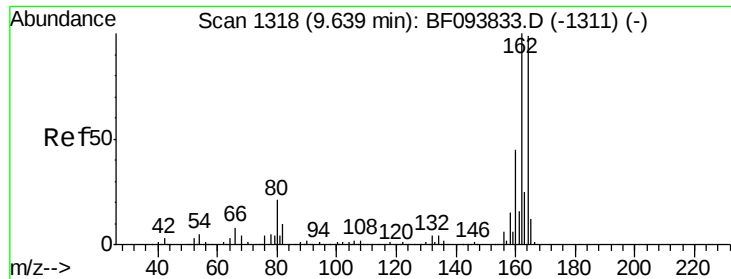
Ion Ratio Lower Upper

113 100

55 290.1 150.2 190.2#

56 288.8 107.8 147.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.486 min Scan# 12

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

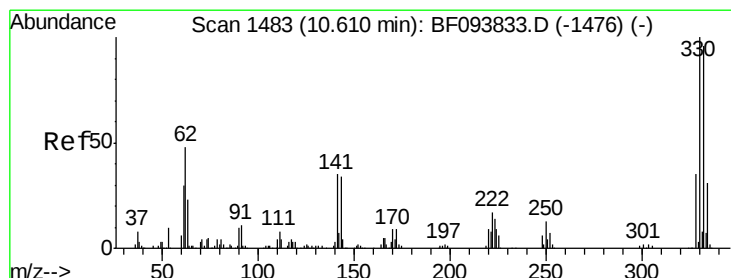
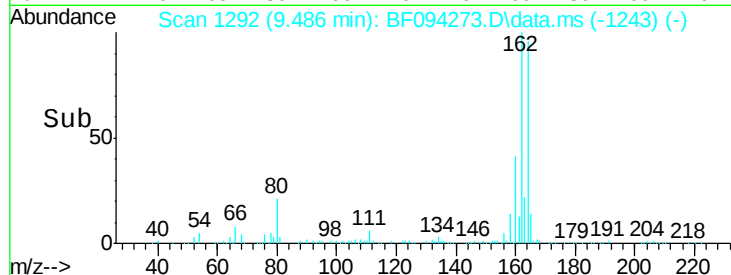
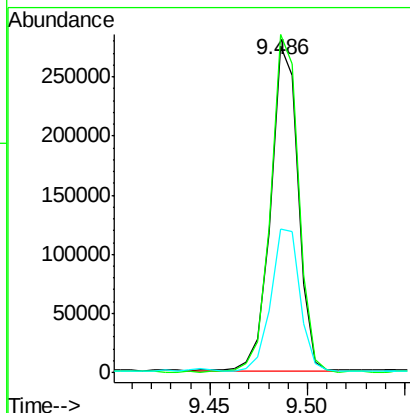
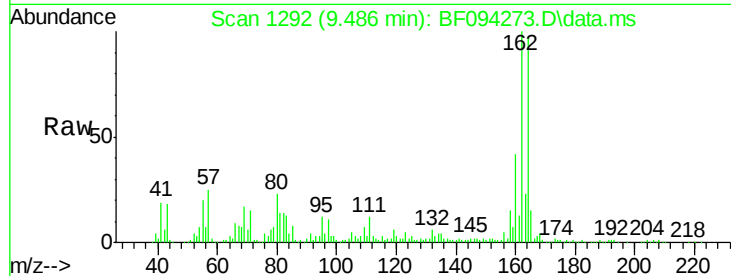
Tot Ion:164 Resp: 267849

Ion Ratio Lower Upper

164 100

162 103.6 82.6 123.8

160 44.0 36.2 54.2



#41

2,4,6-Tribromophenol

Concen: 131.71 ng

RT: 10.469 min Scan# 1459

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

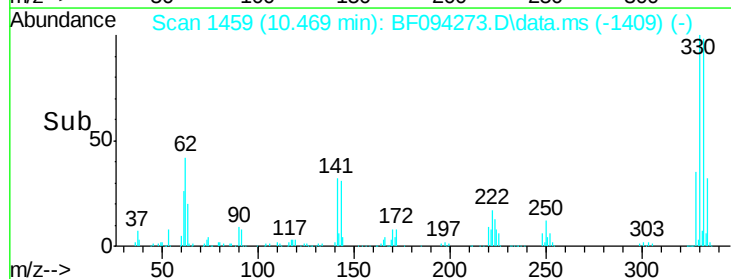
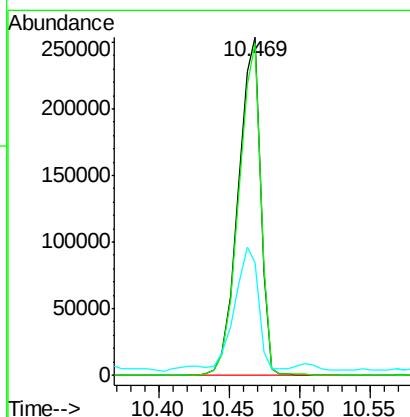
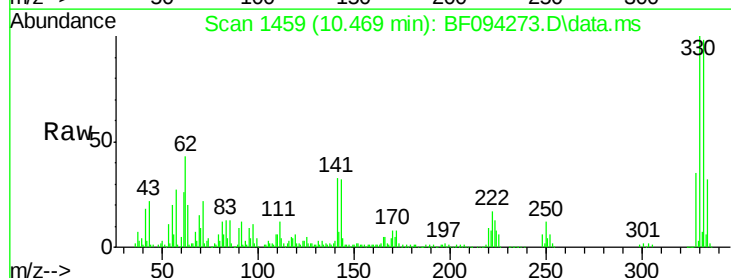
Tgt Ion:330 Resp: 278777

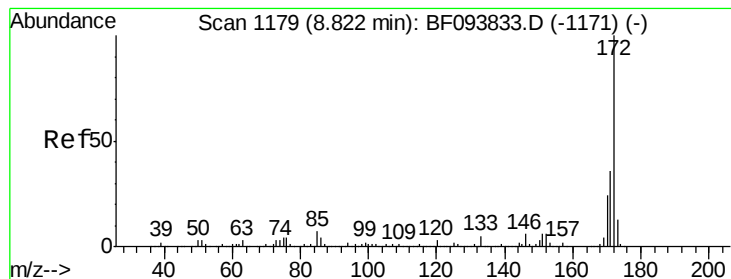
Ion Ratio Lower Upper

330 100

332 97.1 76.6 115.0

141 38.1 31.4 47.2





#44

2-Fluorobiphenyl

Concen: 77.11 ng

RT: 8.675 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

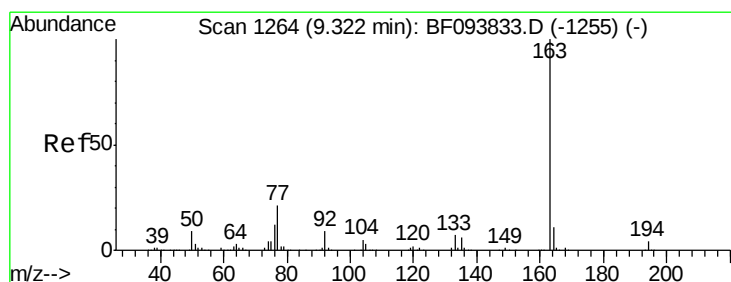
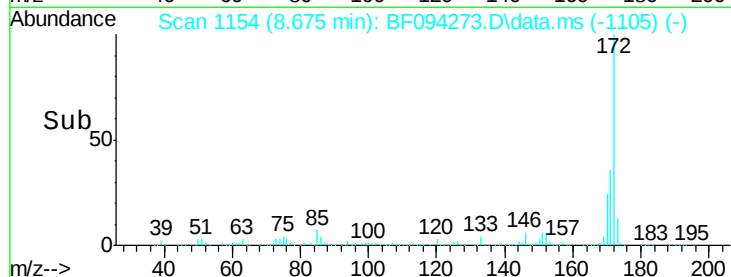
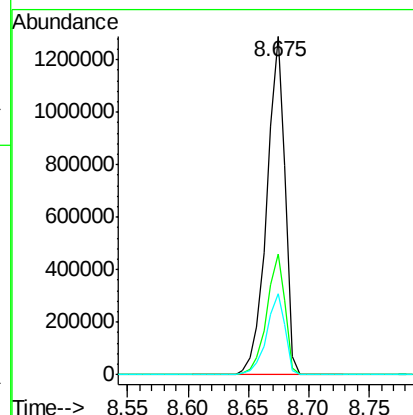
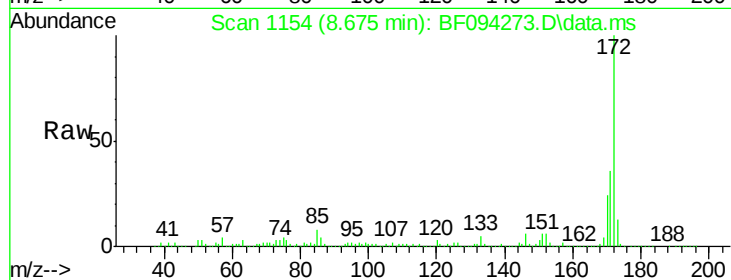
BNA_F

ClientSampleId :

RT3456-275030

Tot Ion:172 Resp: 1354121

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	23.9	19.8	29.8



#49

Dimethylphthalate

Concen: 9.44 ng

RT: 9.169 min Scan# 1238

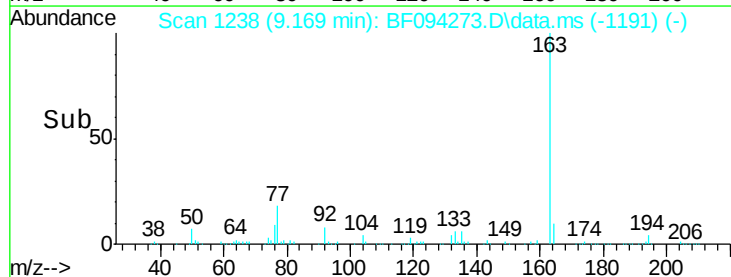
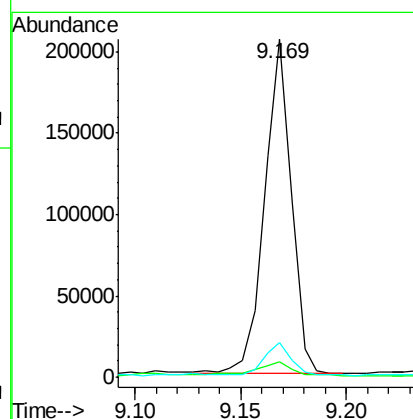
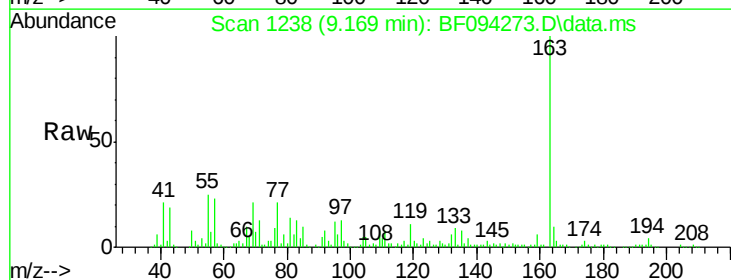
Delta R.T. -0.024 min

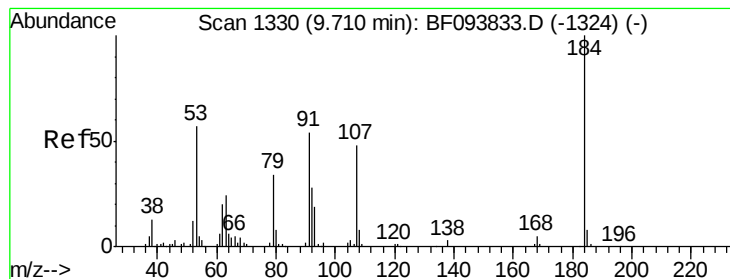
Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Tgt Ion:163 Resp: 179694

Ion	Ratio	Lower	Upper
163	100		
194	4.5	2.6	4.0#
164	10.1	8.4	12.6





#53

2,4-Dinitrophenol

Concen: 4.76 ng

RT: 9.604 min Scan# 1312

Delta R.T. 0.011 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

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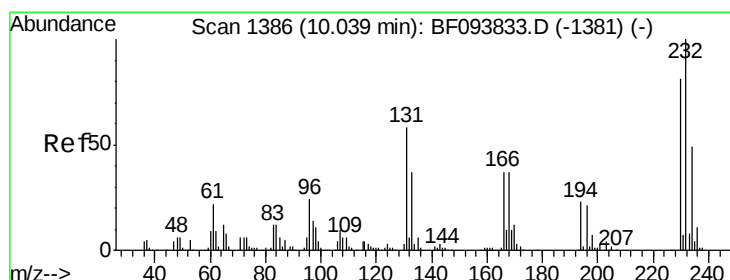
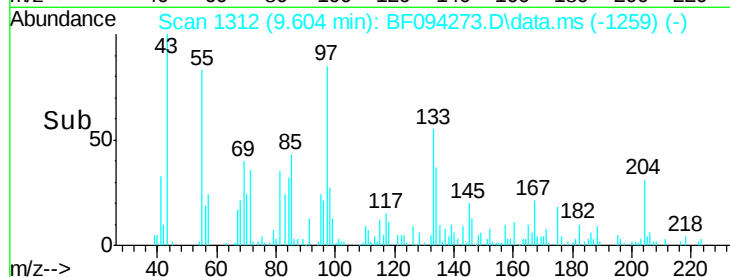
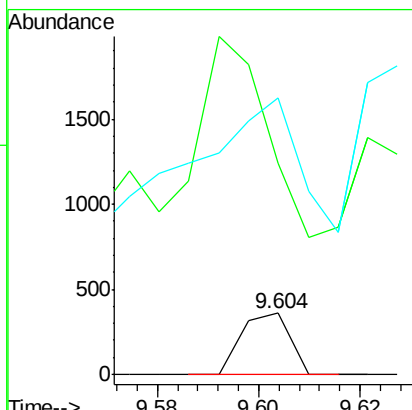
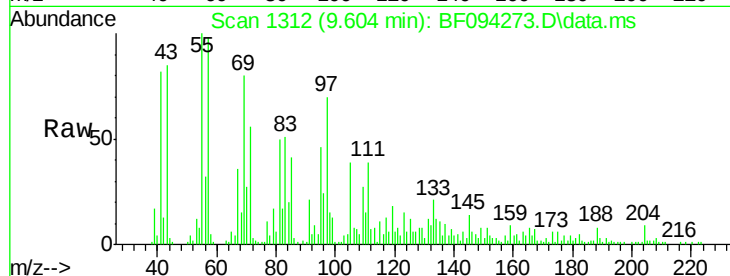
Tot Ion:184 Resp: 240

Ion Ratio Lower Upper

184 100

63 345.6 62.7 94.1#

154 450.8 81.1 121.7#



#58

2,3,4,6-Tetrachlorophenol

Concen: 38.36 ng

RT: 9.904 min Scan# 1363

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Tgt Ion:232 Resp: 147643

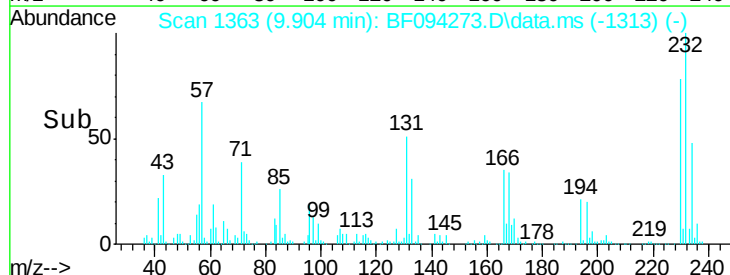
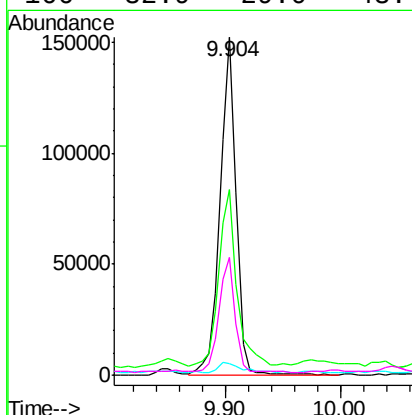
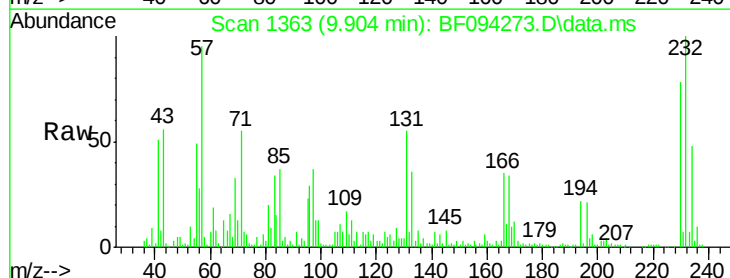
Ion Ratio Lower Upper

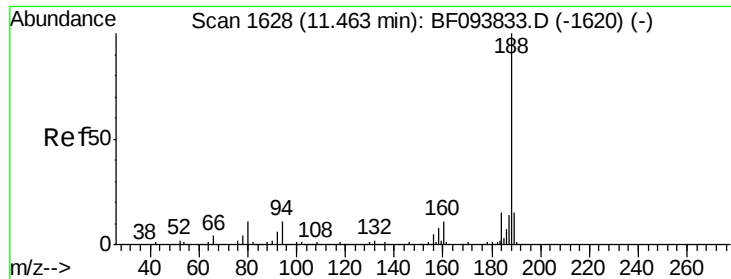
232 100

131 59.8 44.8 67.2

130 4.6 2.3 3.5#

166 32.9 29.0 43.4

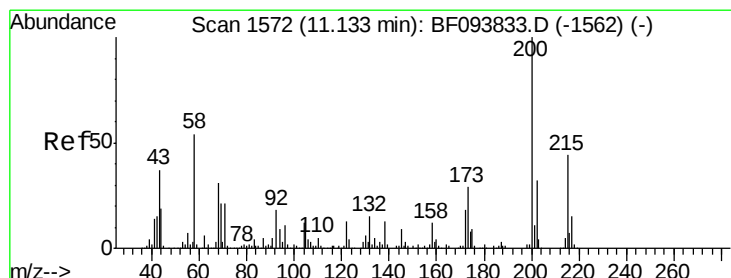
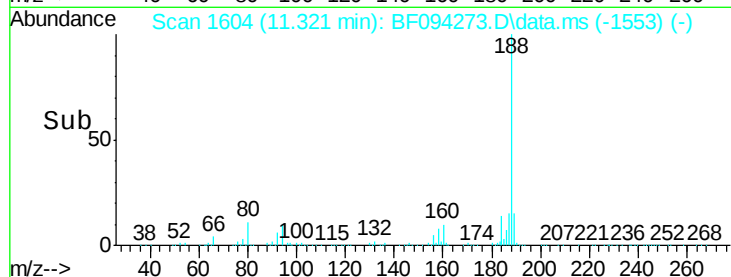
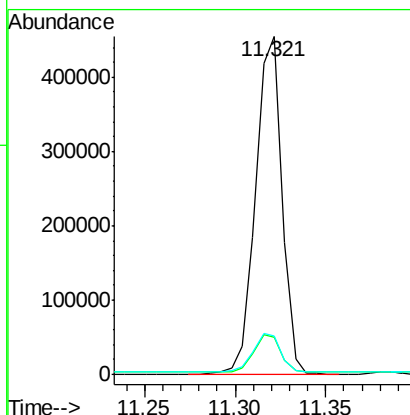
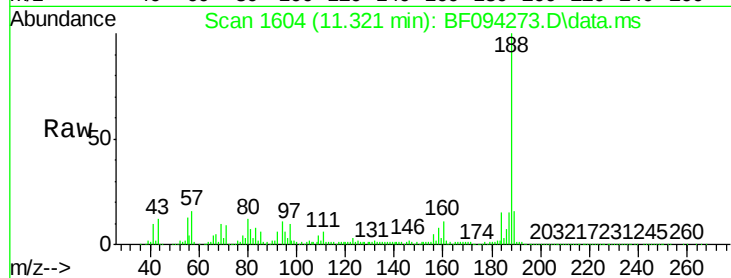




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.321 min Scan# 16
Delta R.T. -0.000 min
Lab File: BF094273.D
Acq: 7 Apr 2017 15:18

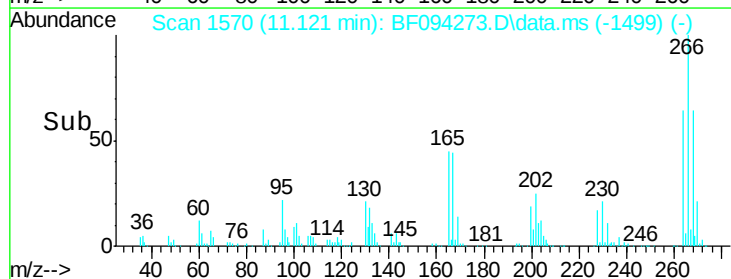
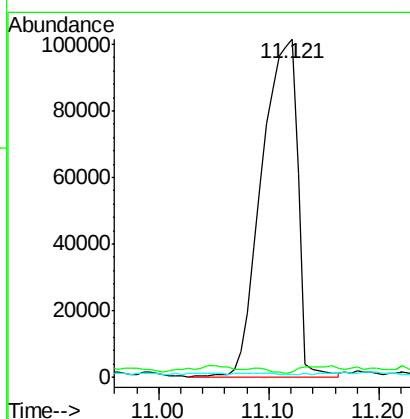
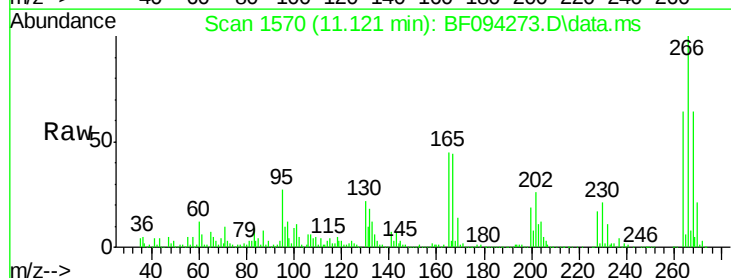
Instrument :
BNA_F
ClientSampleId :
RT3456-275030

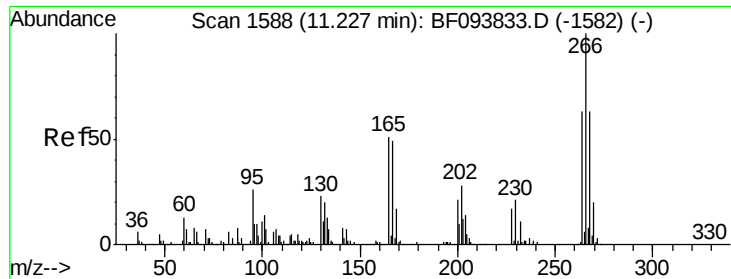
Tot Ion:188 Resp: 462121
Ion Ratio Lower Upper
188 100
94 11.0 9.4 14.2
80 11.6 10.2 15.2



#68
Atrazine
Concen: 48.96 ng
RT: 11.121 min Scan# 1570
Delta R.T. 0.117 min
Lab File: BF094273.D
Acq: 7 Apr 2017 15:18

Tgt Ion:200 Resp: 234357
Ion Ratio Lower Upper
200 100
173 1.4 6.3 46.3#
215 0.6 27.2 67.2#





#69

Pentachlorophenol

Concen: 405.16 ng

RT: 11.121 min Scan# 15

Delta R.T. 0.023 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

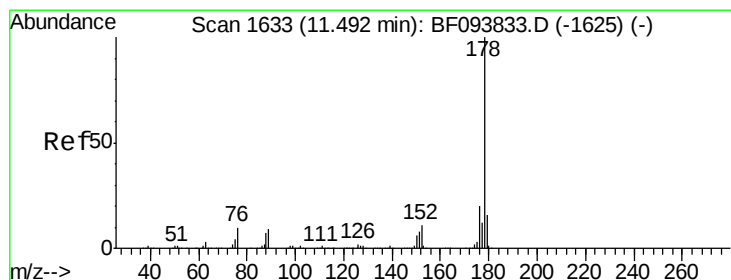
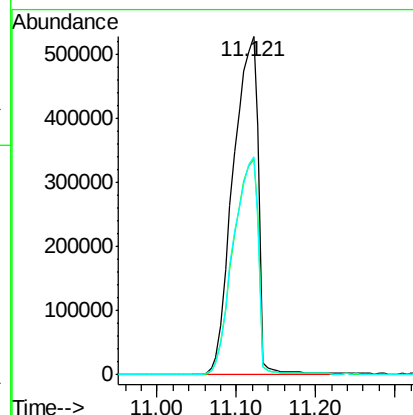
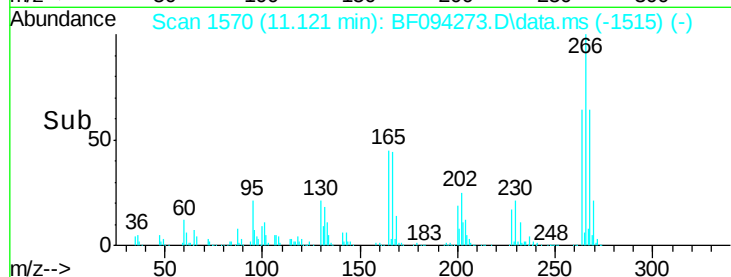
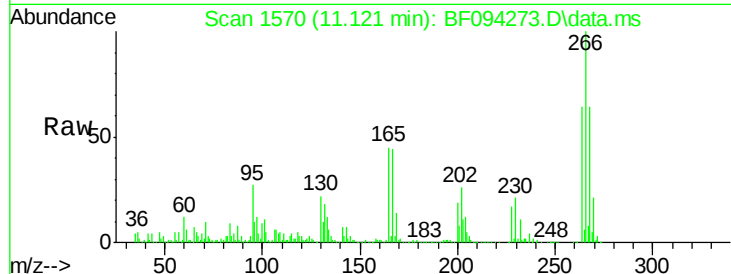
Tot Ion:266 Resp: 1160252

Ion Ratio Lower Upper

266 100

268 63.6 51.1 76.7

264 64.3 51.7 77.5



#70

Phenanthrene

Concen: 4.79 ng

RT: 11.345 min Scan# 1608

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

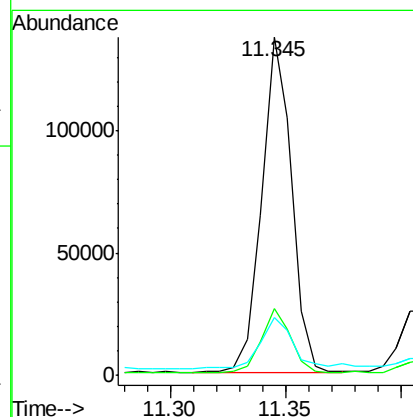
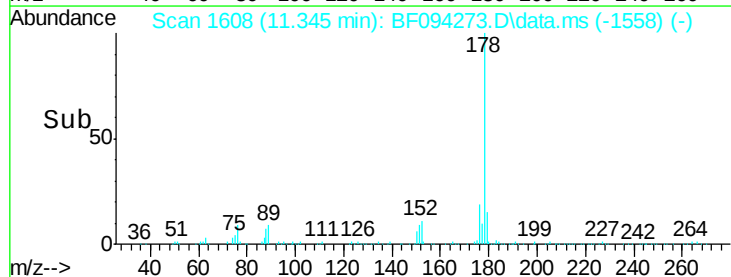
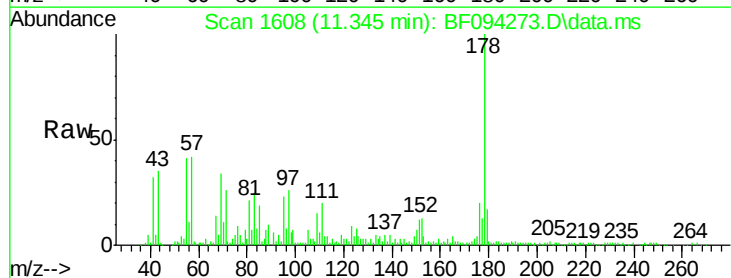
Tgt Ion:178 Resp: 123262

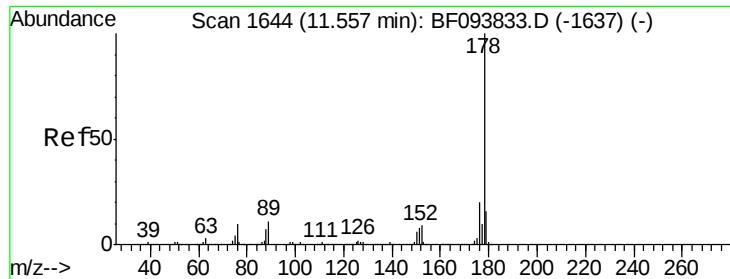
Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

179 17.0 12.6 19.0

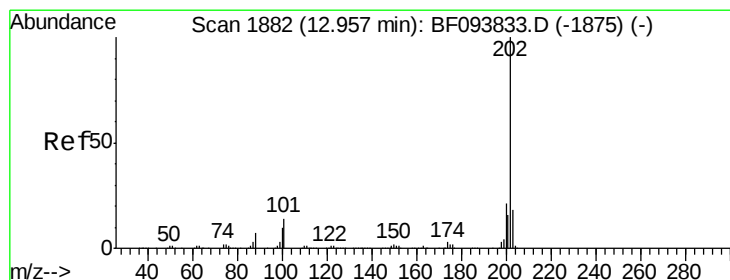
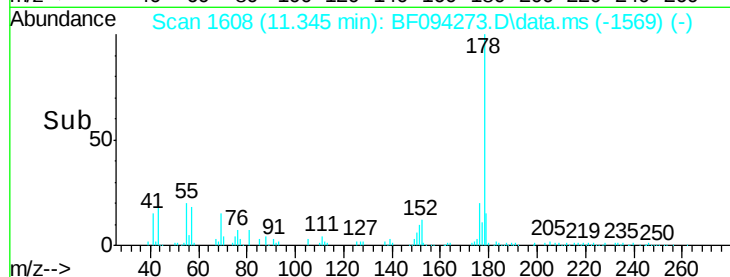
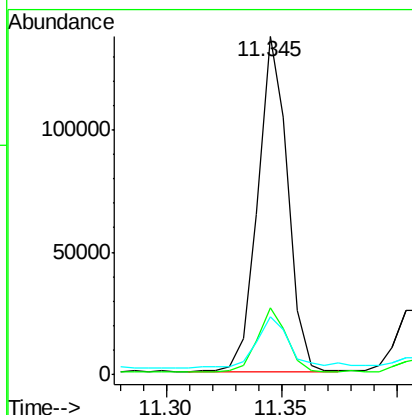
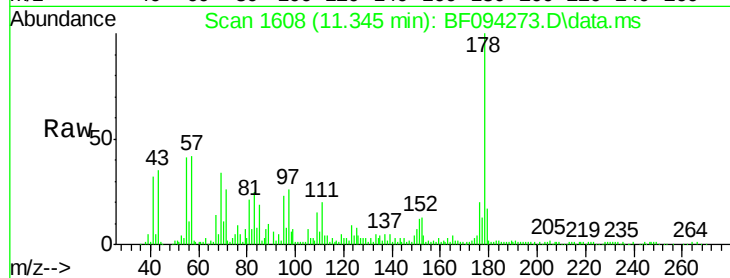




#71
 Anthracene
 Concen: 4.66 ng
 RT: 11.345 min Scan# 16
 Delta R.T. -0.071 min
 Lab File: BF094273.D
 Acq: 7 Apr 2017 15:18

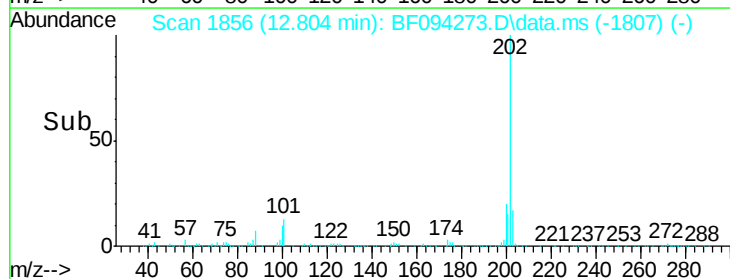
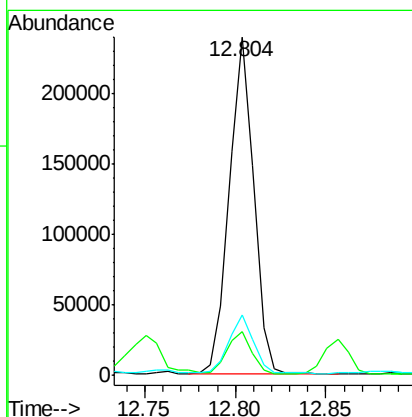
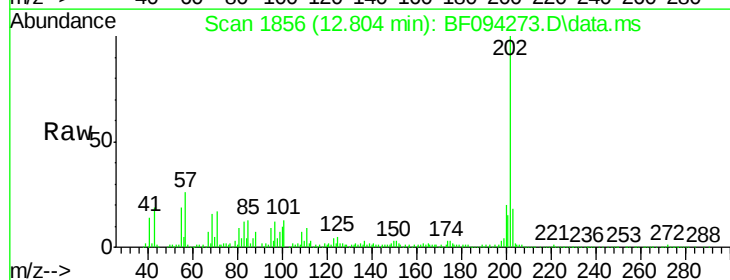
Instrument :
 BNA_F
 ClientSampleId :
 RT3456-275030

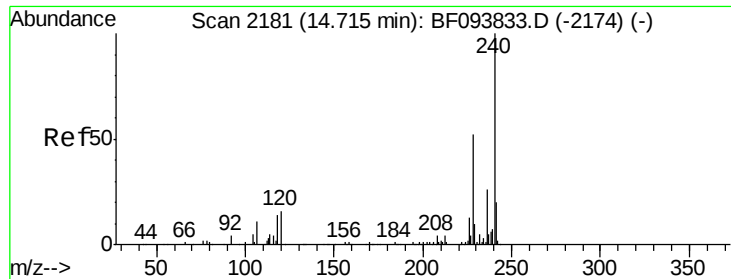
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	17.0	12.7	19.1



#74
 Fluoranthene
 Concen: 8.62 ng
 RT: 12.804 min Scan# 1856
 Delta R.T. -0.012 min
 Lab File: BF094273.D
 Acq: 7 Apr 2017 15:18

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.562 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

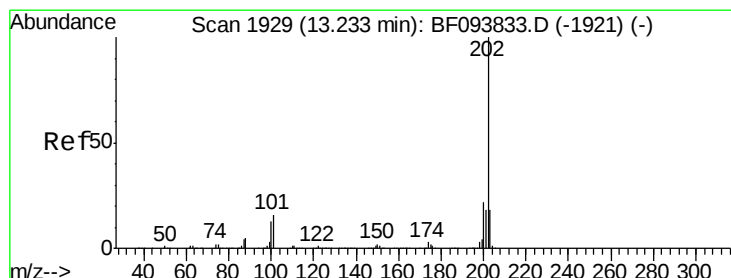
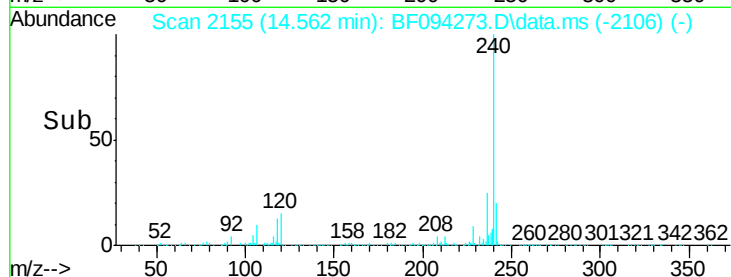
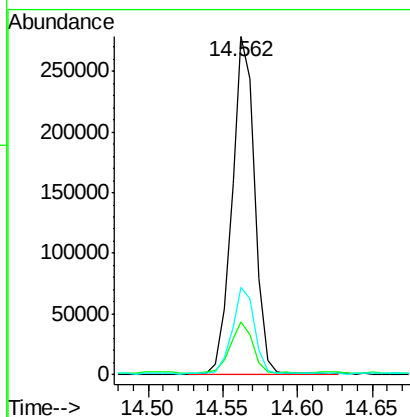
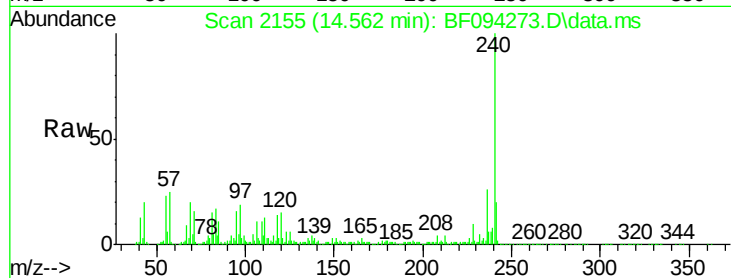
Tot Ion:240 Resp: 295836

Ion Ratio Lower Upper

240 100

120 15.5 5.8 8.8#

236 25.6 20.5 30.7



#77

Pyrene

Concen: 10.82 ng

RT: 13.080 min Scan# 1903

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

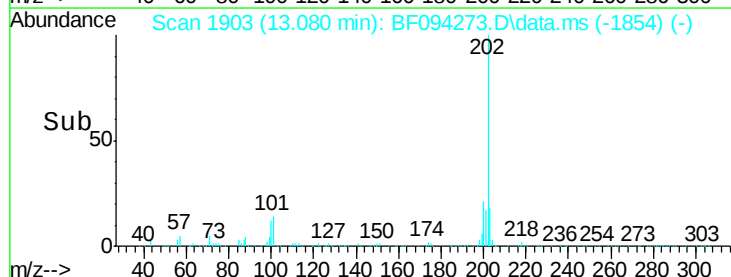
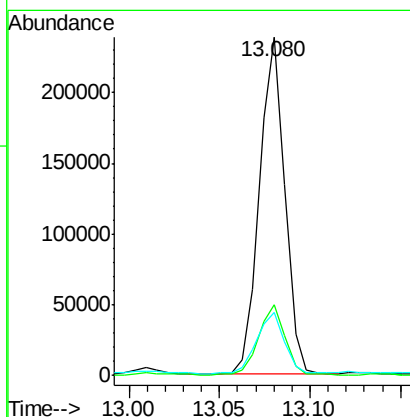
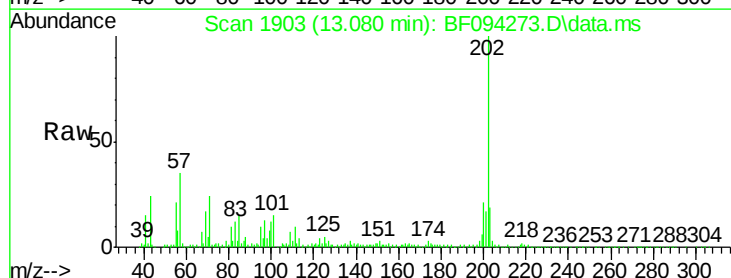
Tgt Ion:202 Resp: 232369

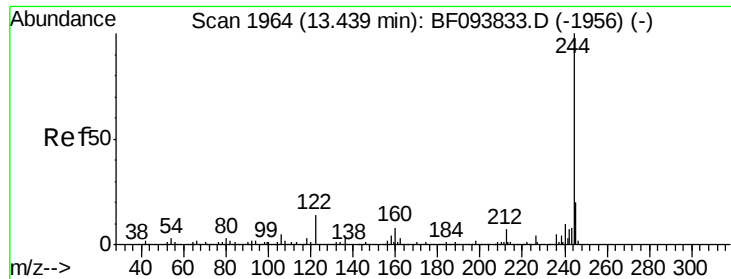
Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

203 18.7 14.4 21.6





#78

Terphenyl-d14

Concen: 69.51 ng

RT: 13.292 min Scan# 19

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

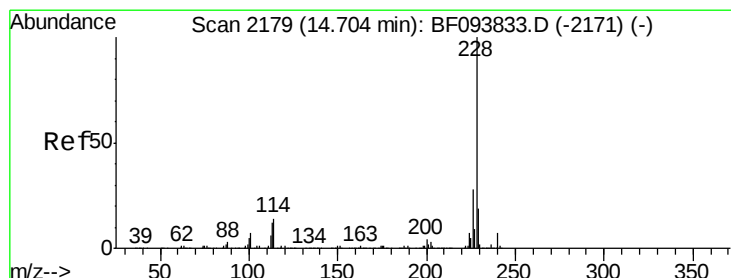
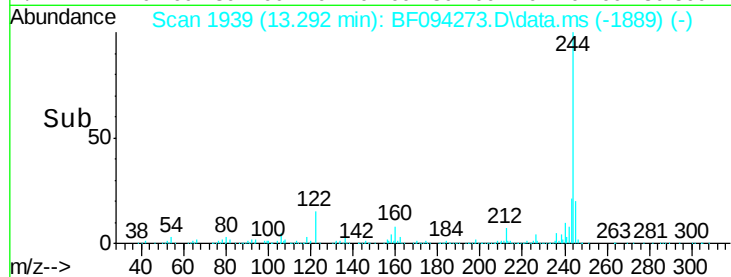
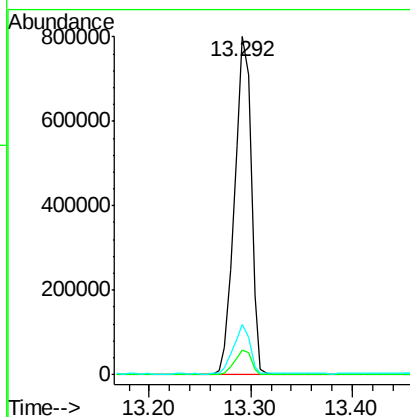
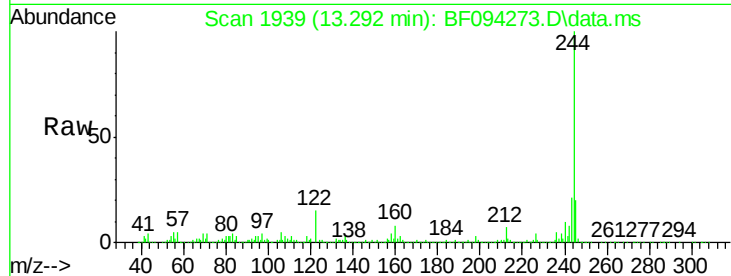
Tot Ion:244 Resp: 917418

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 15.0 10.3 15.5



#80

Benzo(a)anthracene

Concen: 4.74 ng

RT: 14.551 min Scan# 2153

Delta R.T. -0.012 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

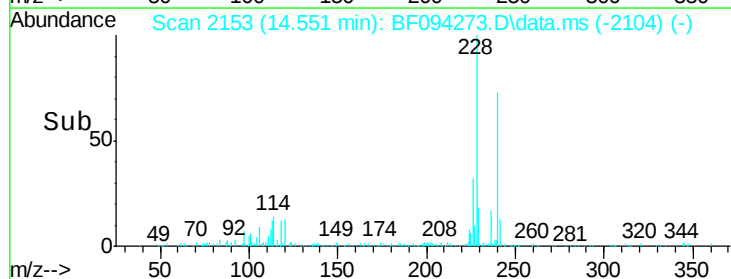
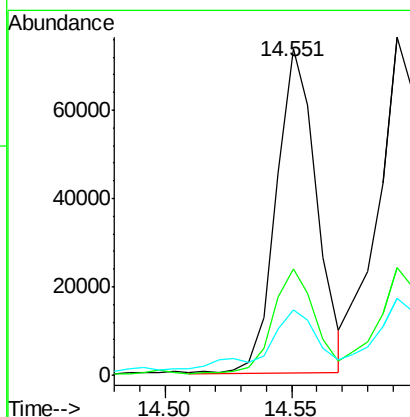
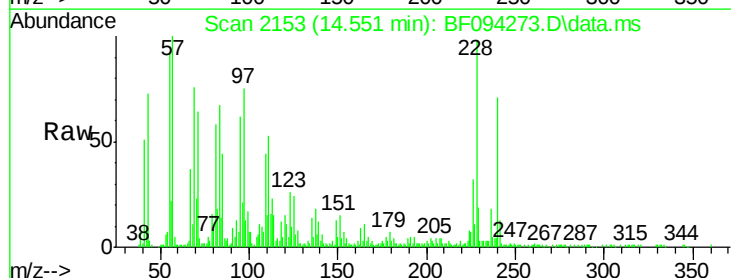
Tgt Ion:228 Resp: 81800

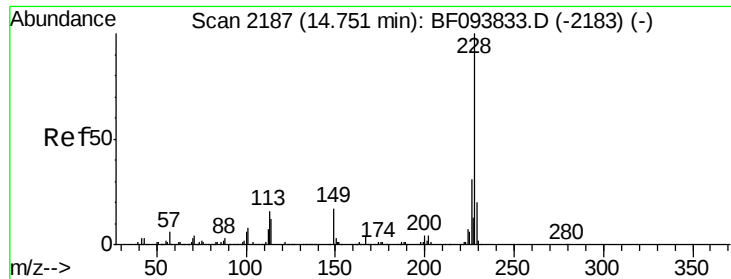
Ion Ratio Lower Upper

228 100

226 32.7 22.6 33.8

229 19.9 16.3 24.5





#82

Chrysene

Concen: 5.56 ng

RT: 14.592 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

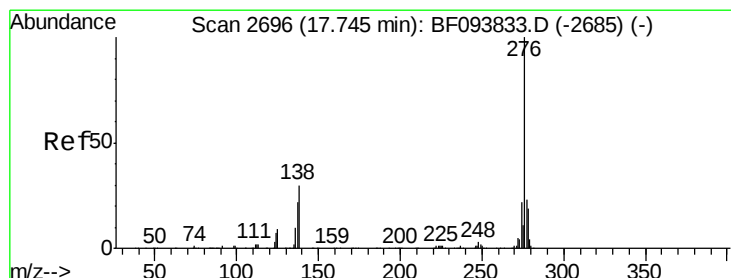
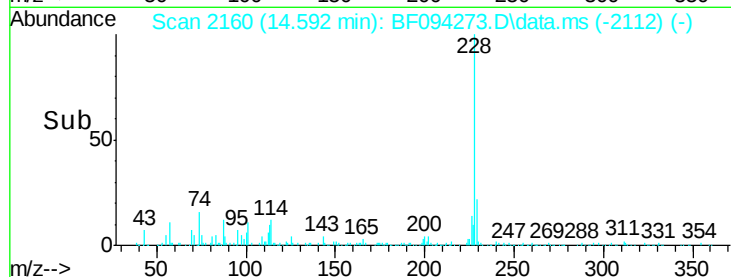
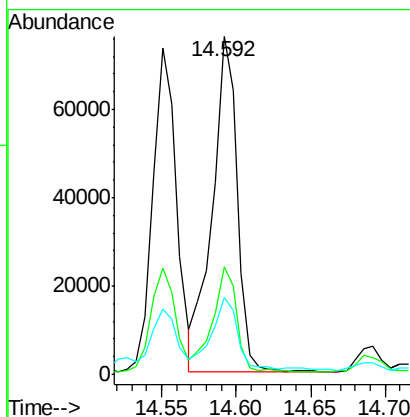
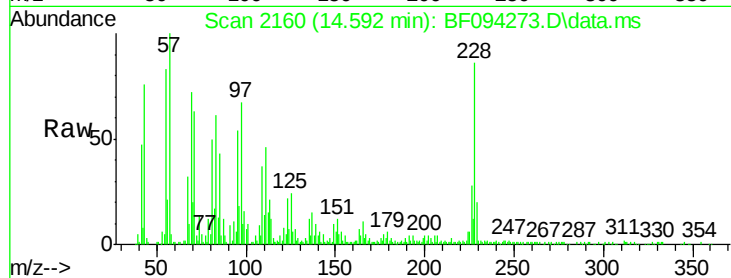
Tot Ion:228 Resp: 89016

Ion Ratio Lower Upper

228 100

226 31.9 24.9 37.3

229 22.9 15.8 23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.62 ng

RT: 17.515 min Scan# 2657

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

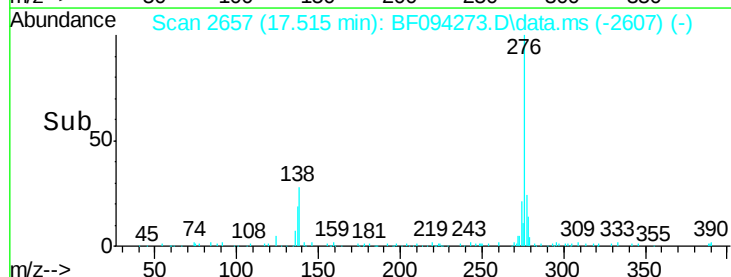
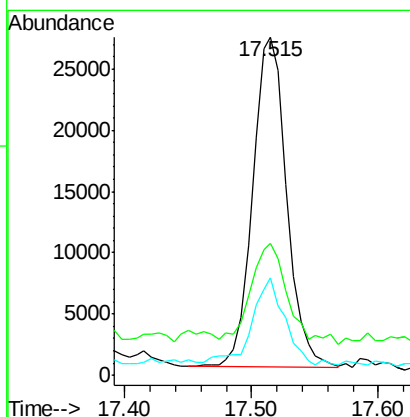
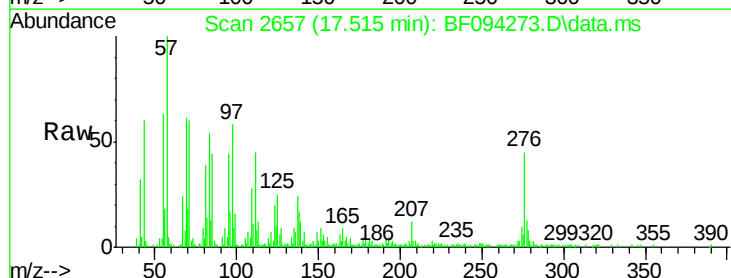
Tgt Ion:276 Resp: 50161

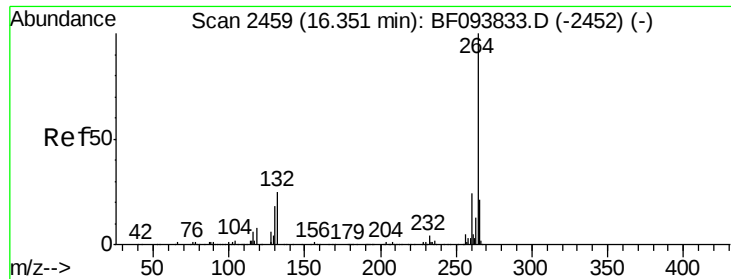
Ion Ratio Lower Upper

276 100

138 30.6 27.8 41.6

277 25.3 20.2 30.4

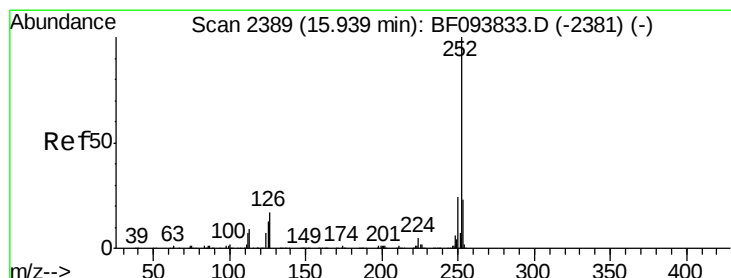
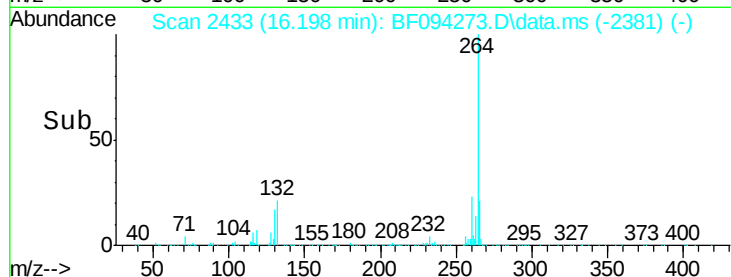
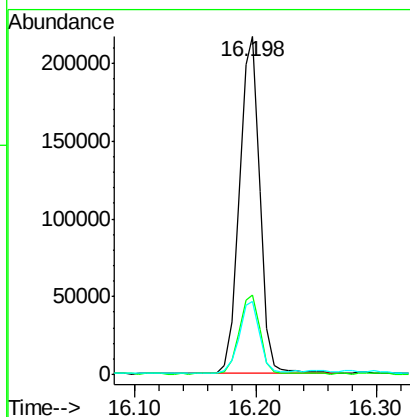
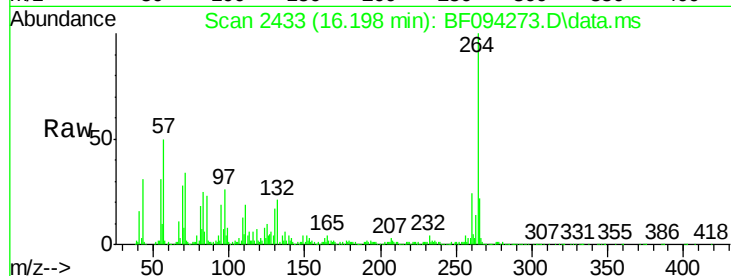




#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.198 min Scan# 2459
Delta R.T. 0.006 min
Lab File: BF094273.D
Acq: 7 Apr 2017 15:18

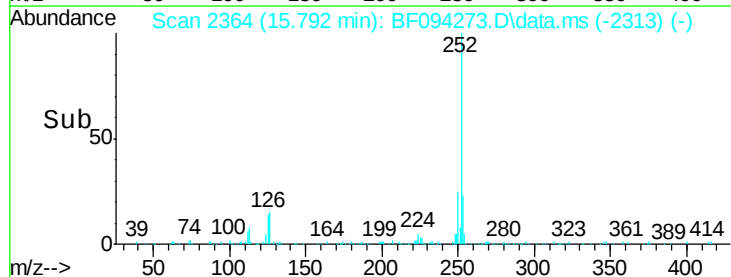
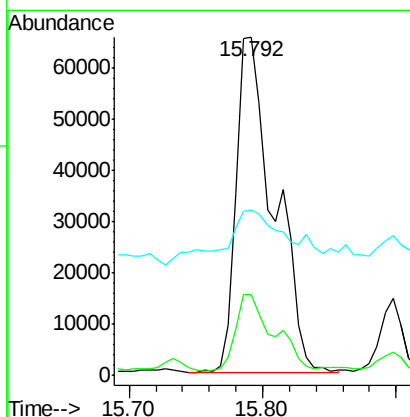
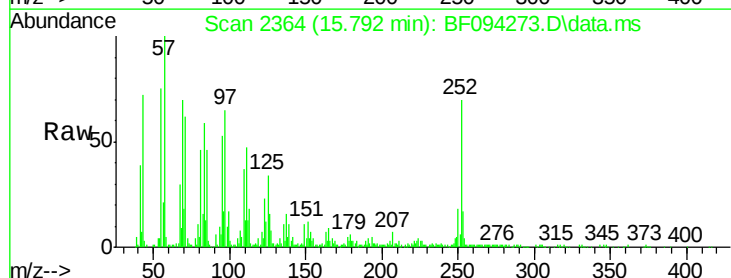
Instrument :
BNA_F
ClientSampleId :
RT3456-275030

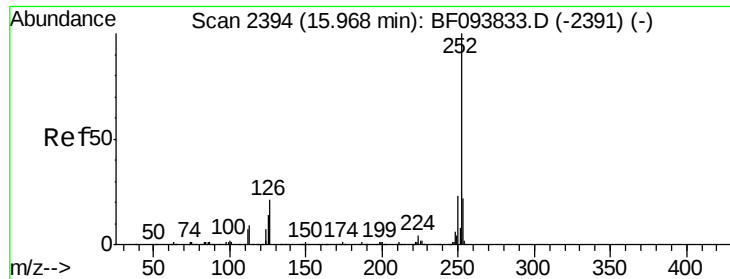
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.6	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 8.29 ng
RT: 15.792 min Scan# 2364
Delta R.T. -0.000 min
Lab File: BF094273.D
Acq: 7 Apr 2017 15:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	48.7	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 8.47 ng

RT: 15.792 min Scan# 23

Delta R.T. -0.036 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

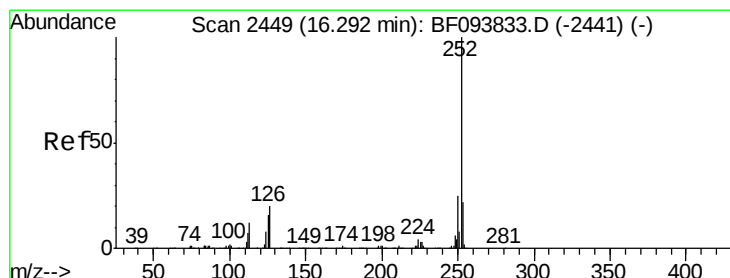
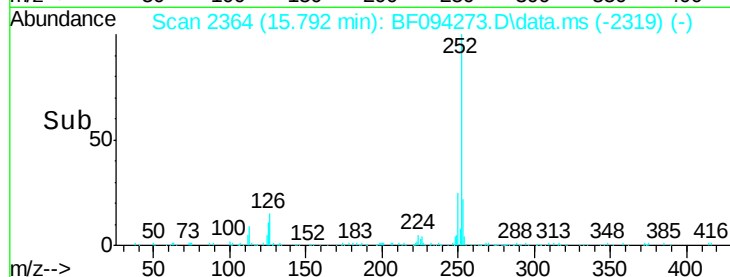
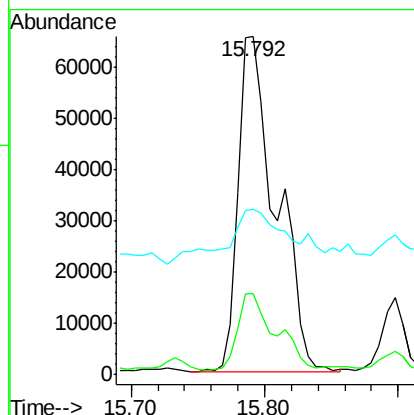
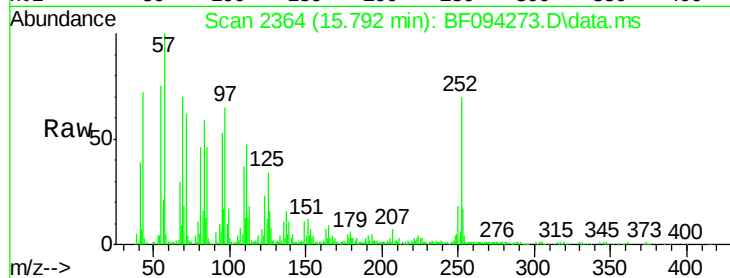
Tot Ion:252 Resp: 129591

Ion Ratio Lower Upper

252 100

253 23.9 18.4 27.6

125 48.7 13.1 19.7#



#89

Benzo(a)pyrene

Concen: 4.97 ng

RT: 16.133 min Scan# 2422

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

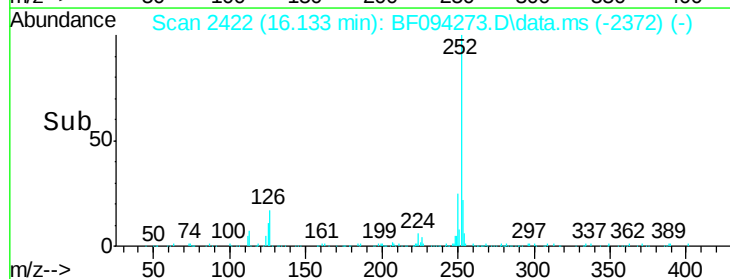
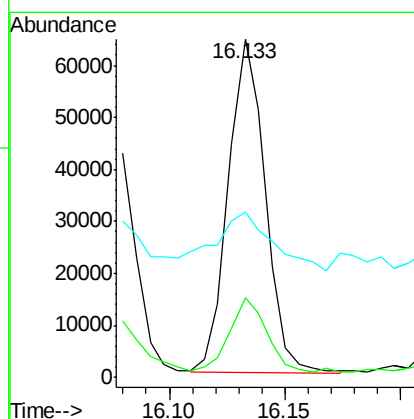
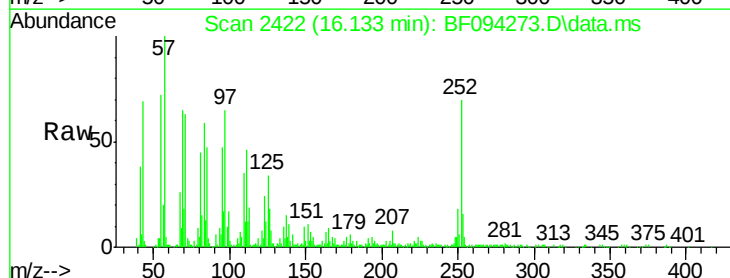
Tgt Ion:252 Resp: 71585

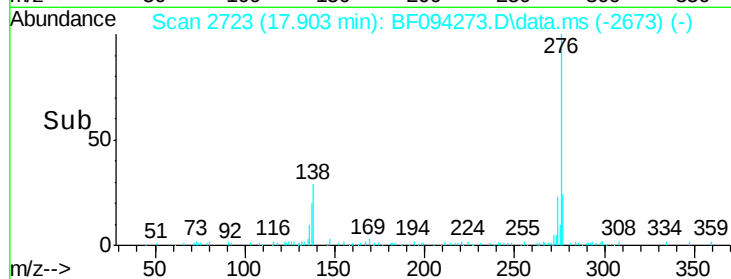
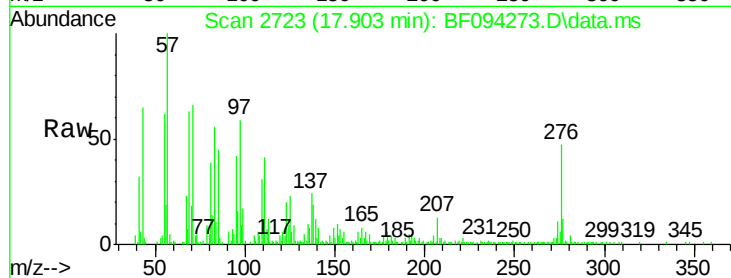
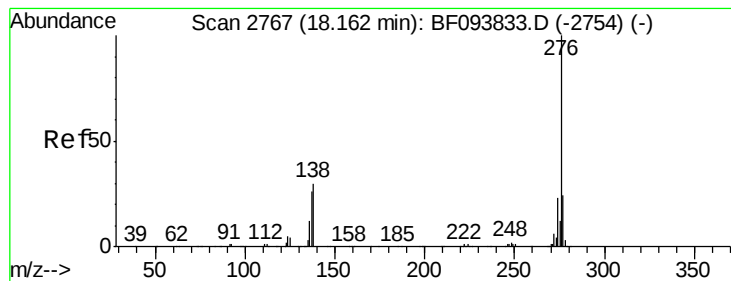
Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 48.9 11.0 16.4#





#91

Benzo(a,h,i)perylene

Concen: 4.15 ng

RT: 17.903 min Scan# 27

Delta R.T. -0.006 min

Lab File: BF094273.D

Acq: 7 Apr 2017 15:18

Instrument :

BNA_F

ClientSampleId :

RT3456-275030

Tot Ion:276 Resp: 50970

Ion Ratio Lower Upper

276 100

277 26.4 18.6 28.0

138 39.9 25.4 38.0#

