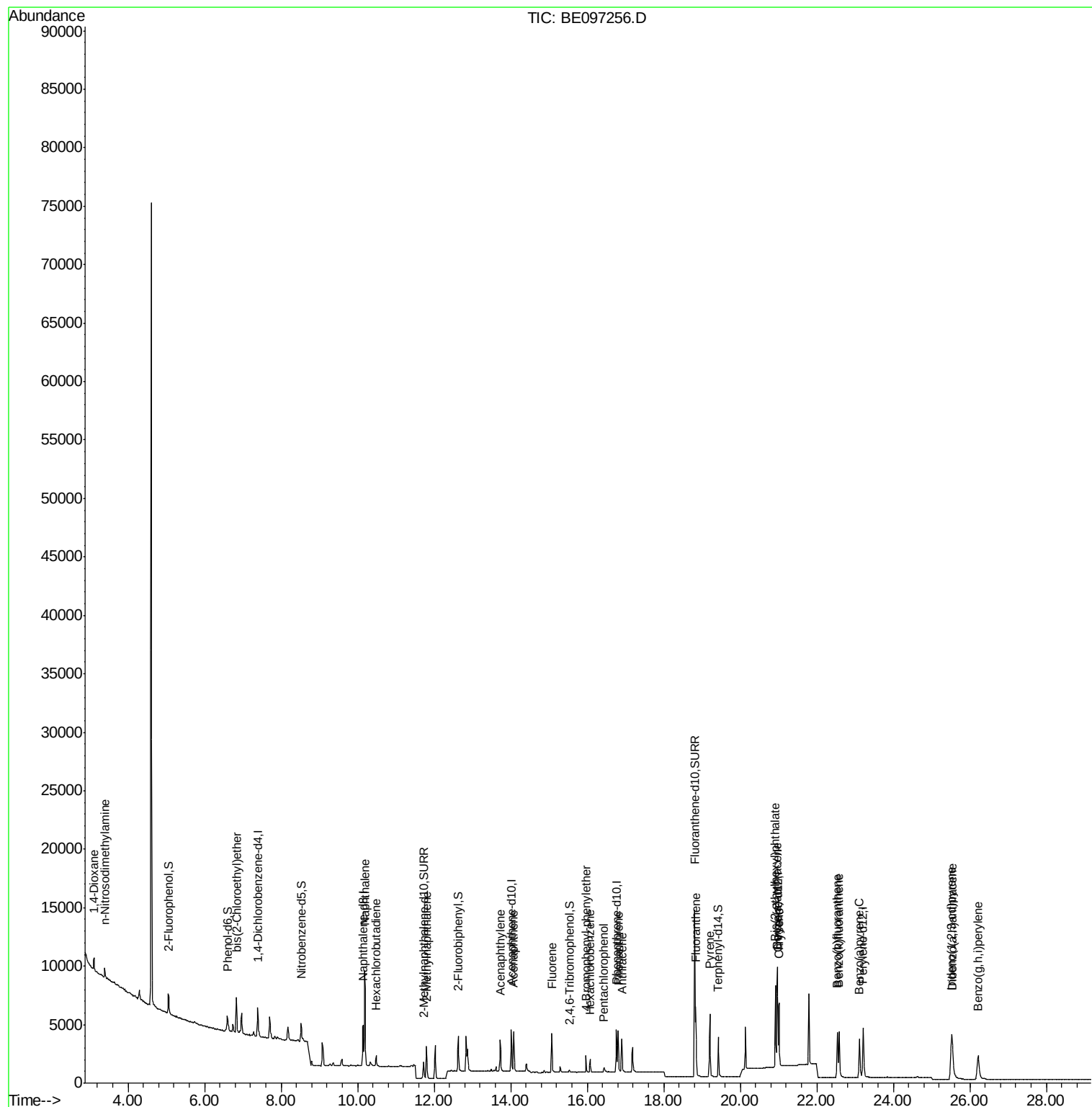
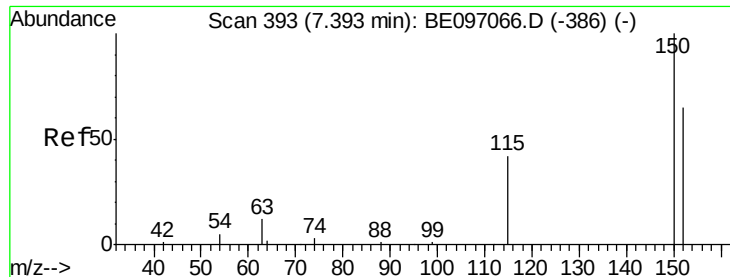


Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE081018\
Data File : BE097256.D
Acq On : 10 Aug 2018 10:58
Operator : SJ/JU
Sample : PB111580BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB111580BS

Quant Time: Aug 10 16:04:08 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE072418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 31 10:49:28 2018
Response via : Initial Calibration



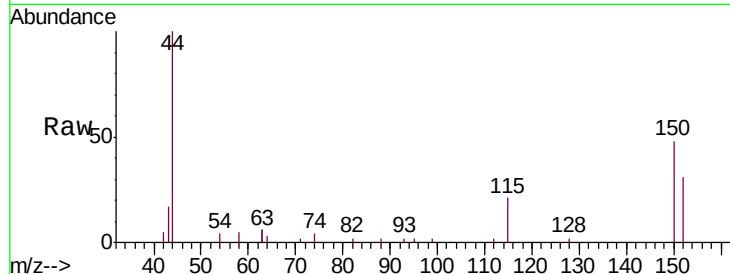


#1

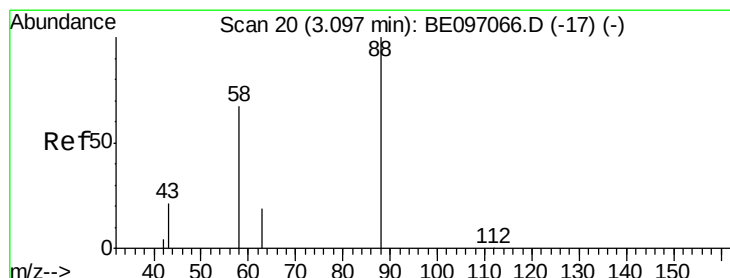
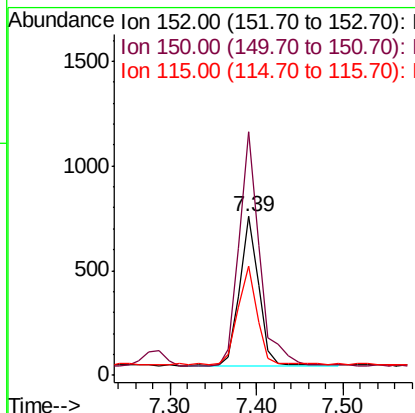
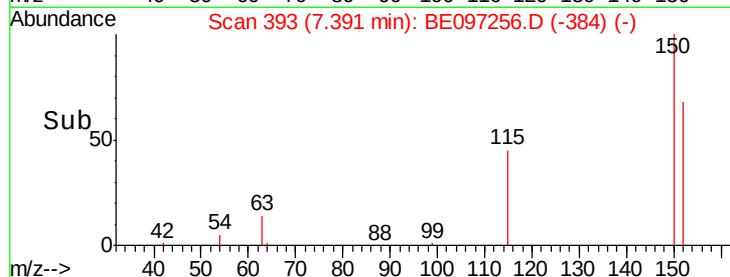
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.39 min Scan# 393
Delta R.T. 0.00 min
Lab File: BE097256.D
Acq: 10 Aug 2018 10:58

Instrument :
BNA_E
ClientSampleId :
PB111580BS

Tgt Ion:152 Resp: 1083
Ion Ratio Lower Upper
152 100
150 153.4 117.2 175.8
115 68.7 57.0 85.6



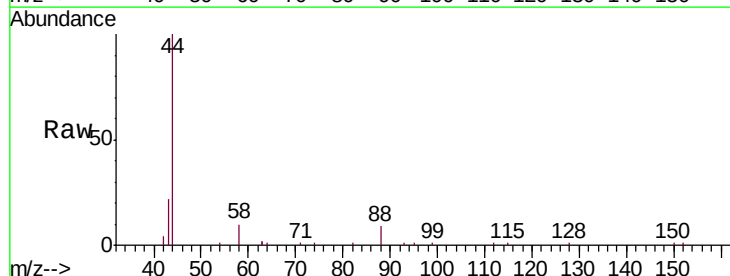
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



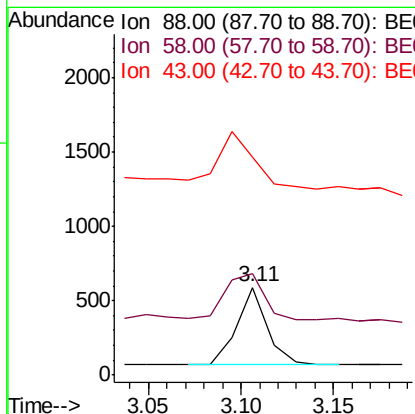
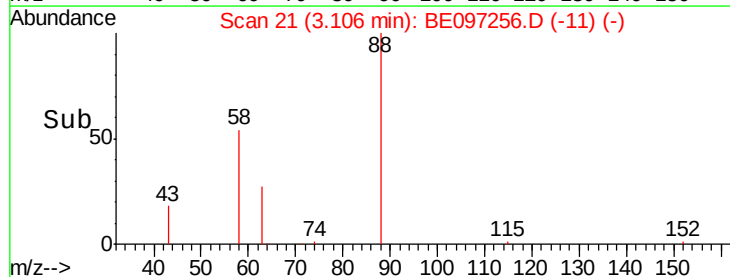
#2

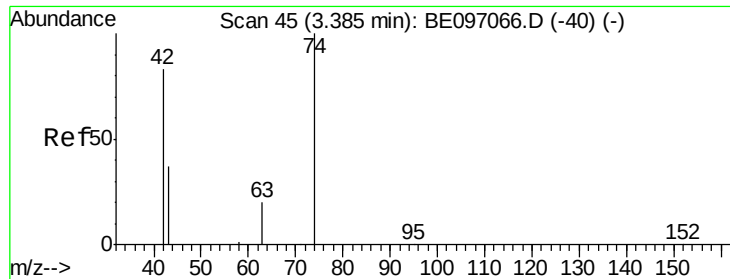
1,4-Dioxane
Concen: 0.346 ng
RT: 3.11 min Scan# 21
Delta R.T. 0.01 min
Lab File: BE097256.D
Acq: 10 Aug 2018 10:58

Tgt Ion: 88 Resp: 595
Ion Ratio Lower Upper
88 100
58 76.1 63.2 94.8
43 88.6 41.2 61.8#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.275 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

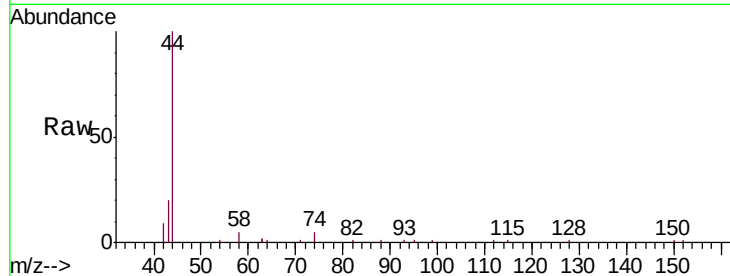
Tgt Ion: 42 Resp: 529

Ion Ratio Lower Upper

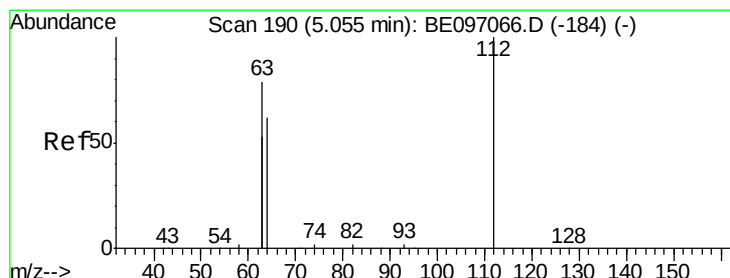
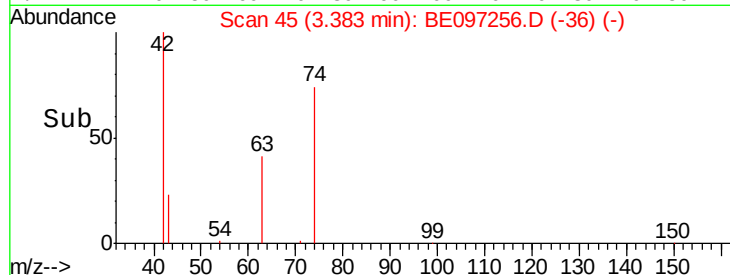
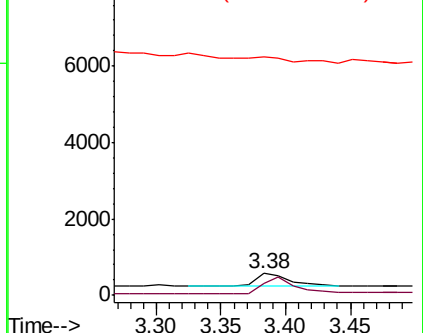
42 100

74 134.8 96.0 144.0

44 57.8 12.0 18.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.329 ng

RT: 5.06 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

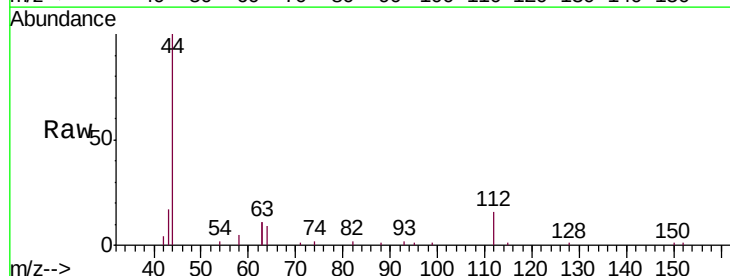
Tgt Ion: 112 Resp: 1000

Ion Ratio Lower Upper

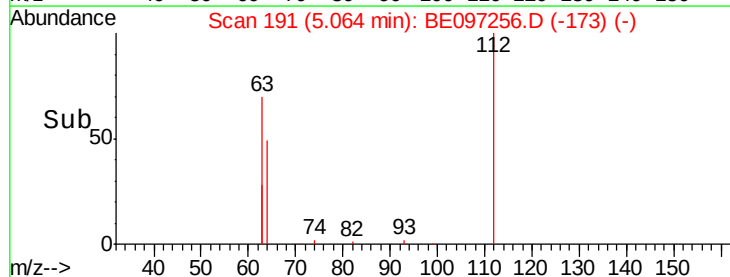
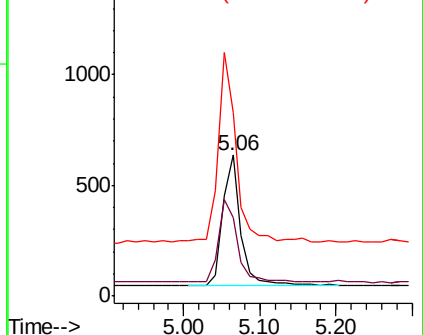
112 100

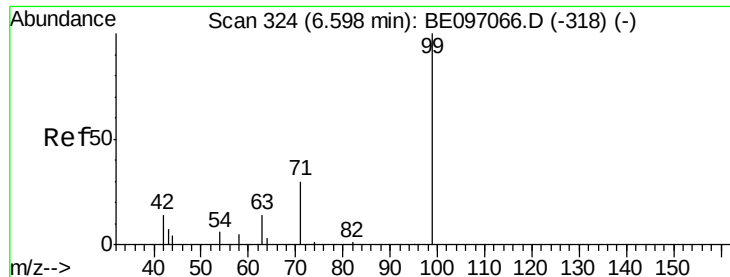
64 66.0 60.1 90.1

63 141.6 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.278 ng

RT: 6.60 min Scan# 324

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

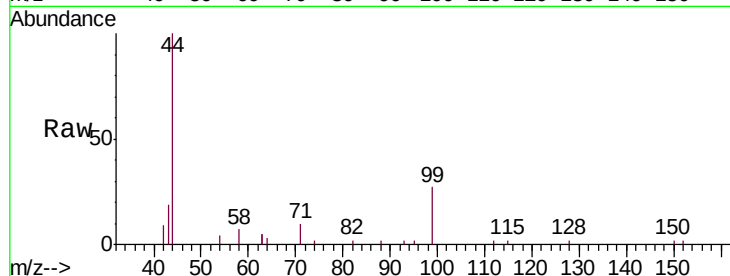
Tgt Ion: 99 Resp: 1243

Ion Ratio Lower Upper

99 100

42 26.1 20.2 30.2

71 34.3 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

1000

800

600

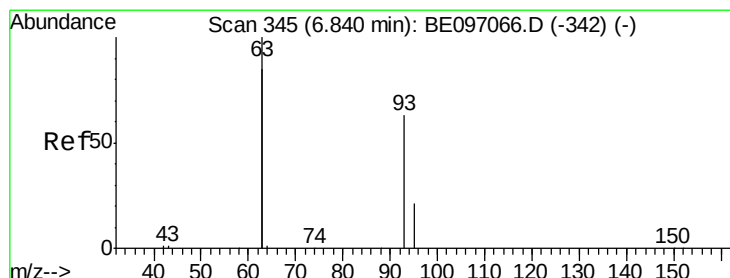
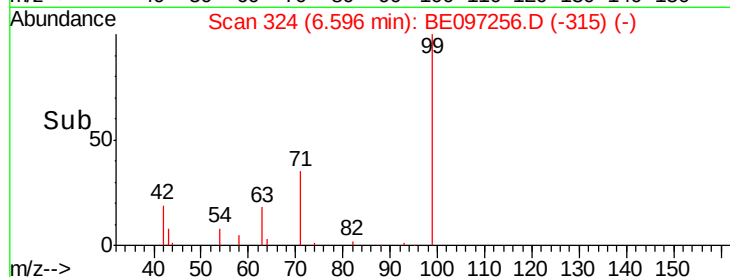
400

200

0

6.50 6.55 6.60 6.65

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.289 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

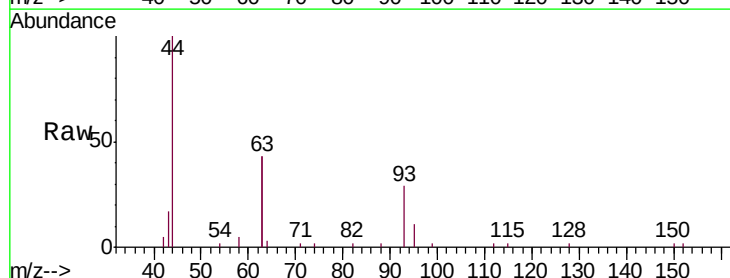
Tgt Ion: 93 Resp: 1177

Ion Ratio Lower Upper

93 100

63 322.5 275.3 412.9

95 33.1 25.2 37.8



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

3000

2500

2000

1500

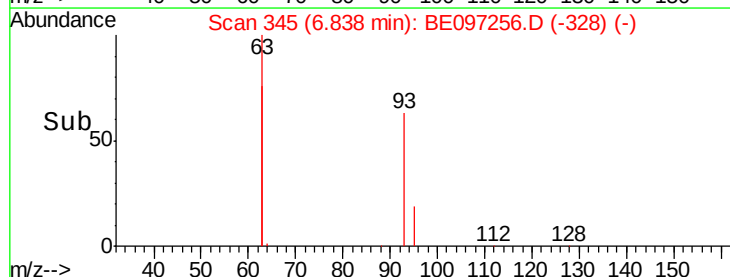
1000

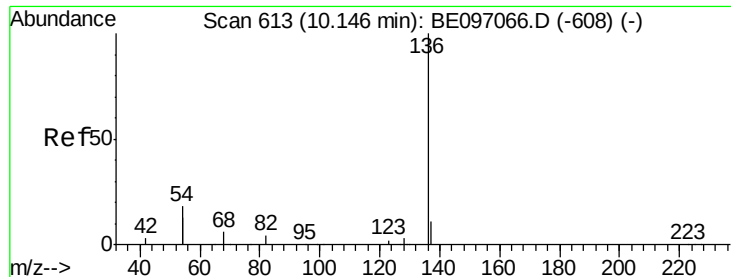
500

0

6.75 6.80 6.85 6.90 6.95

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

Tgt Ion: 136 Resp: 4404

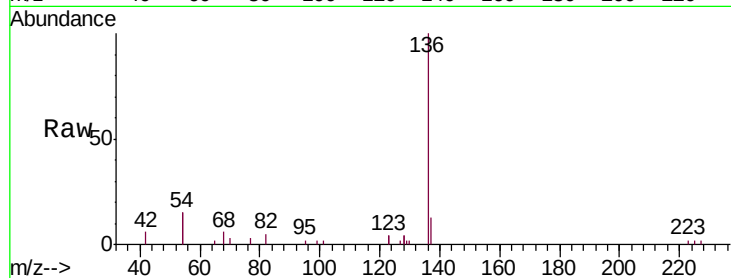
Ion Ratio Lower Upper

136 100

137 13.0 9.5 14.3

54 29.6 29.1 43.7

68 6.3 6.2 9.2

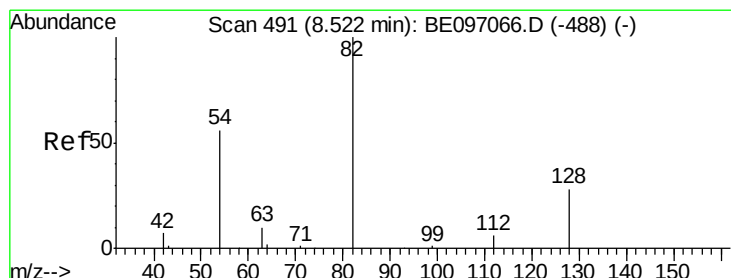
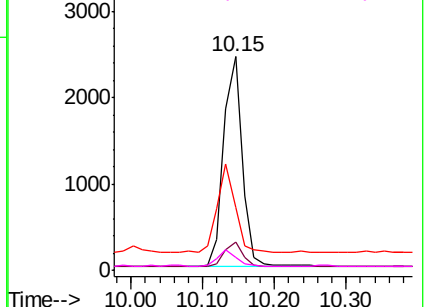
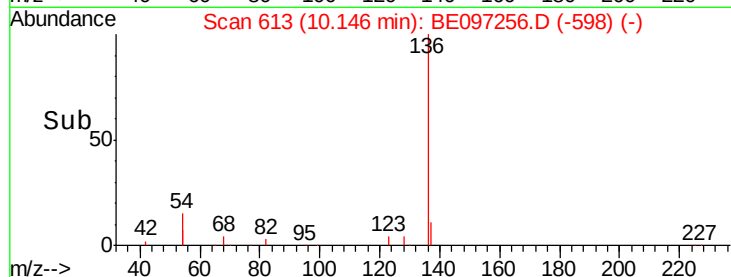


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.364 ng

RT: 8.52 min Scan# 491

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

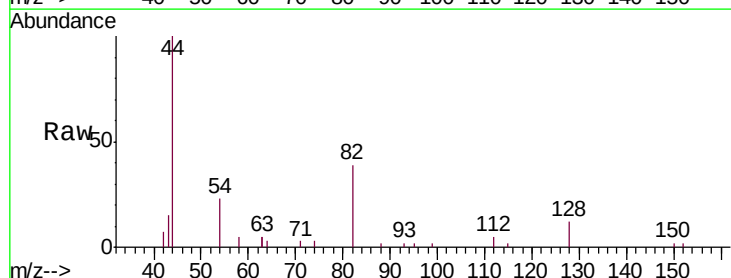
Tgt Ion: 82 Resp: 1394

Ion Ratio Lower Upper

82 100

128 31.6 24.0 36.0

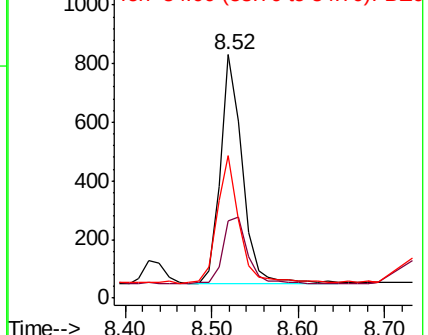
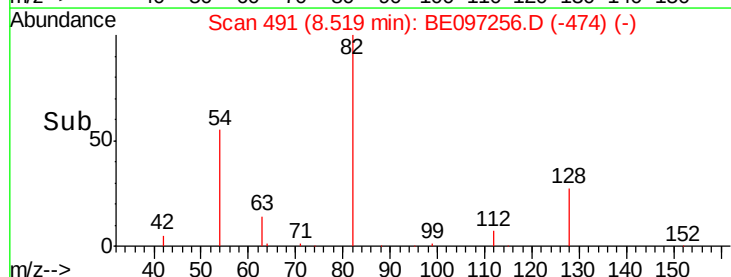
54 58.7 40.0 60.0

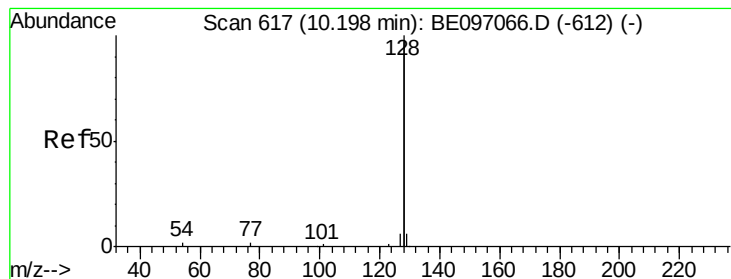


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.348 ng

RT: 10.18 min Scan# 616

Delta R.T. -0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

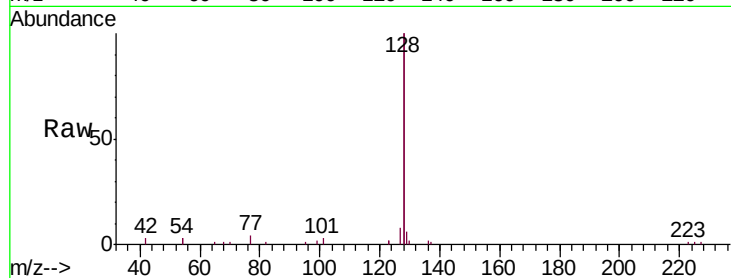
Tgt Ion:128 Resp: 13771

Ion Ratio Lower Upper

128 100

129 3.1 2.6 3.8

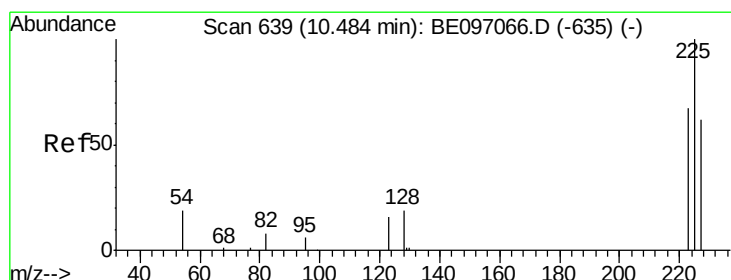
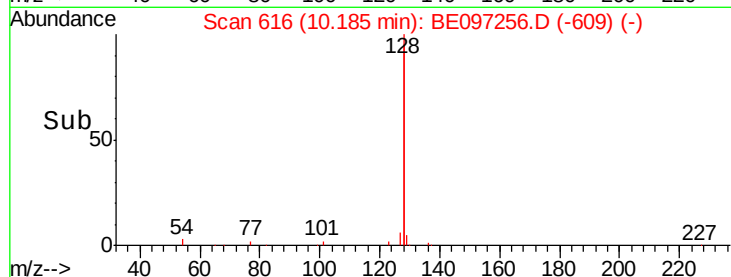
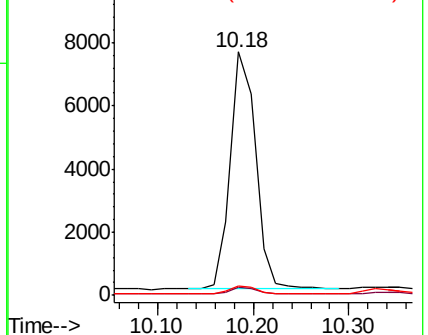
127 3.8 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.350 ng

RT: 10.48 min Scan# 639

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

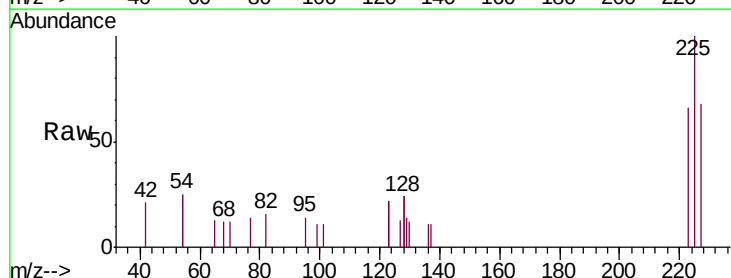
Tgt Ion:225 Resp: 620

Ion Ratio Lower Upper

225 100

223 61.5 53.0 79.6

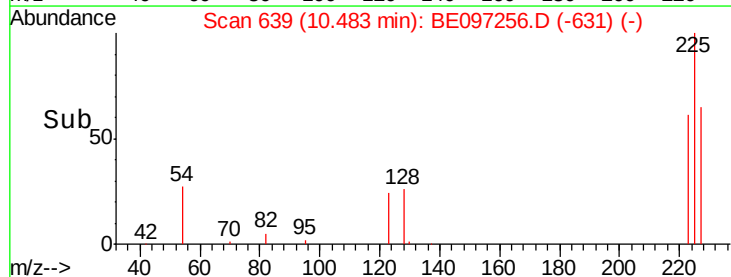
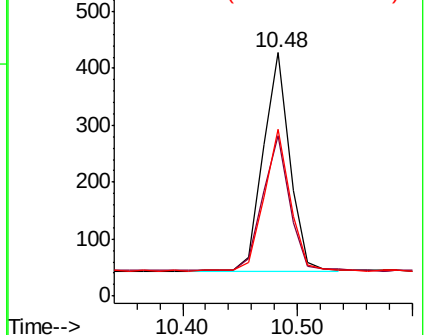
227 64.2 51.4 77.2

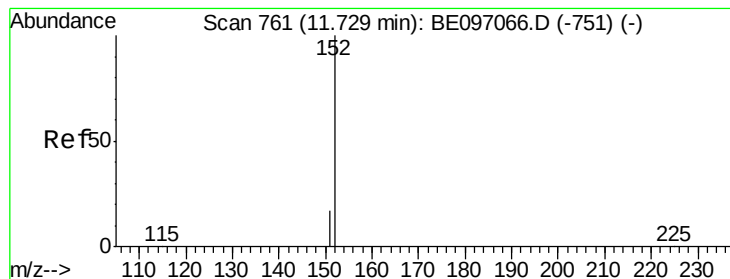


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.389 ng

RT: 11.72 min Scan# 760

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

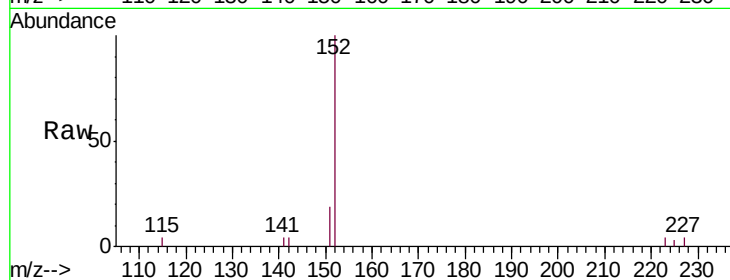
PB111580BS

Tgt Ion:152 Resp: 2566

Ion Ratio Lower Upper

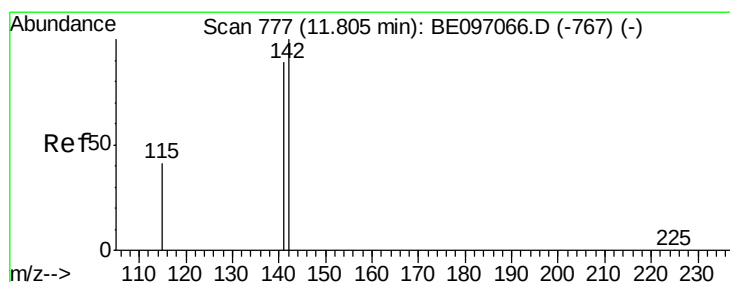
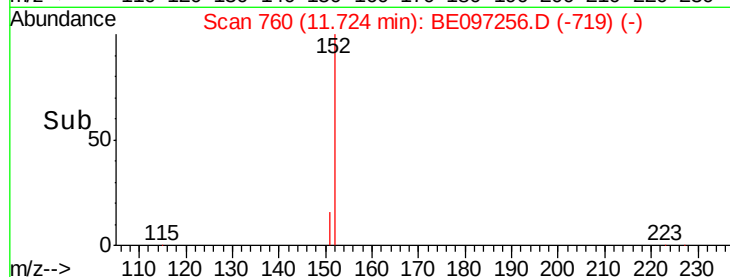
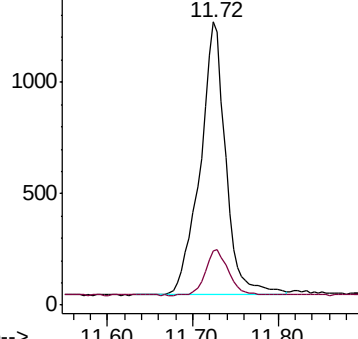
152 100

151 15.7 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.308 ng

RT: 11.80 min Scan# 776

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

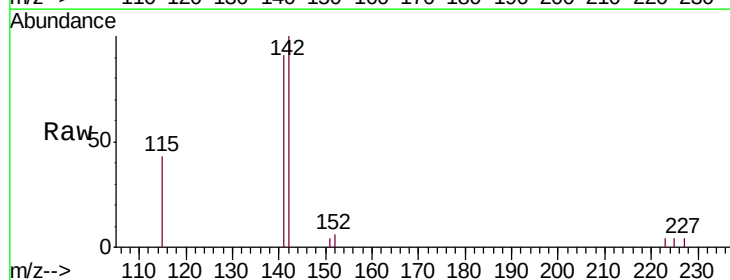
Tgt Ion:142 Resp: 2090

Ion Ratio Lower Upper

142 100

141 91.2 70.4 105.6

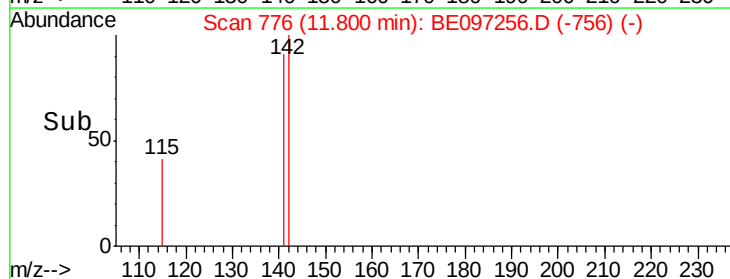
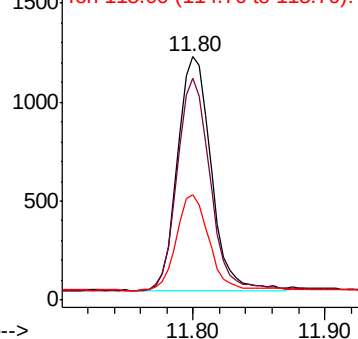
115 43.3 31.7 47.5

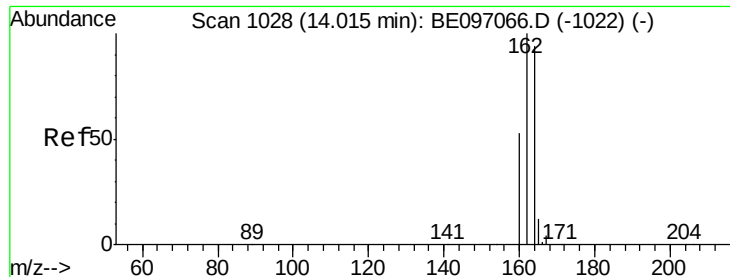


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

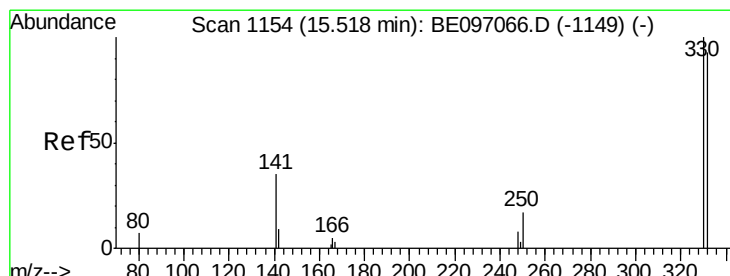
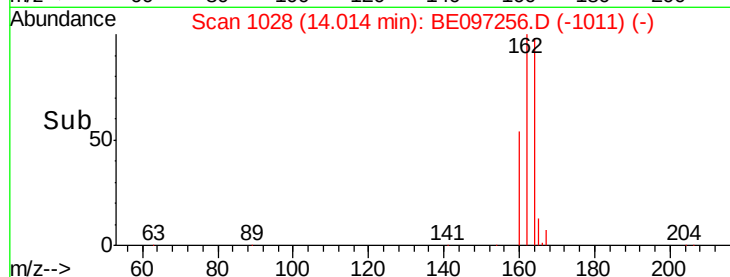
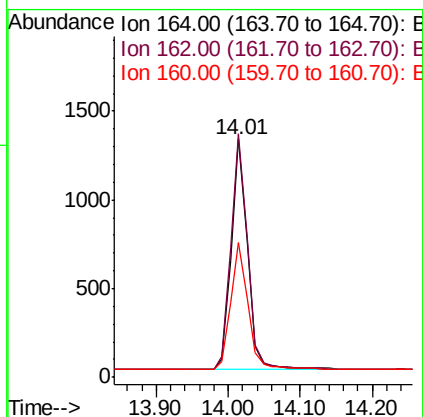
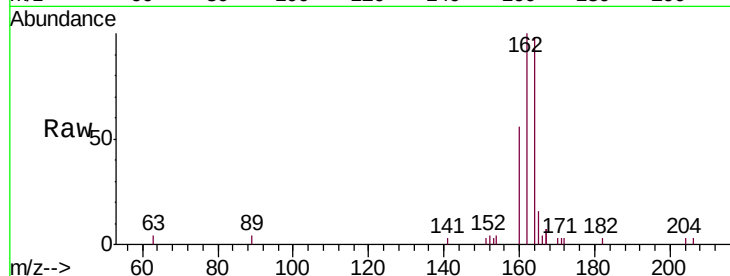




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.01 min Scan# 1028
 Delta R.T. -0.00 min
 Lab File: BE097256.D
 Acq: 10 Aug 2018 10:58

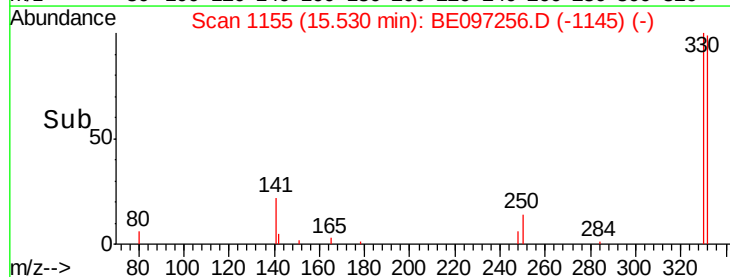
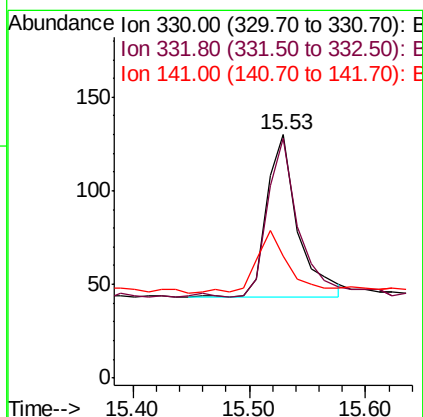
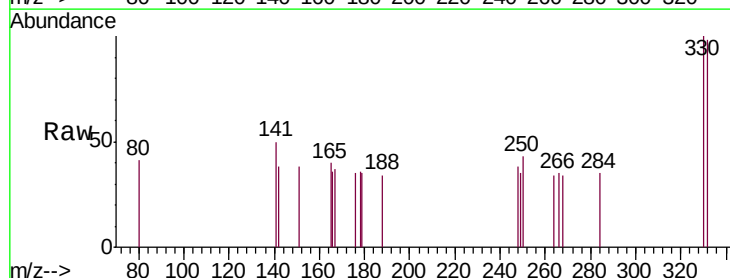
Instrument :
 BNA_E
 ClientSampleId :
 PB111580BS

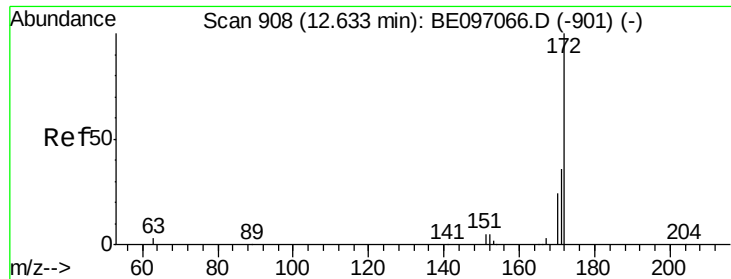
Tgt Ion:164 Resp: 2027
 Ion Ratio Lower Upper
 164 100
 162 102.2 83.1 124.7
 160 56.7 37.1 55.7#



#14
 2,4,6-Tribromophenol
 Concen: 0.244 ng
 RT: 15.53 min Scan# 1155
 Delta R.T. 0.01 min
 Lab File: BE097256.D
 Acq: 10 Aug 2018 10:58

Tgt Ion:330 Resp: 163
 Ion Ratio Lower Upper
 330 100
 332 97.5 152.7 229.1#
 141 40.5 33.7 50.5

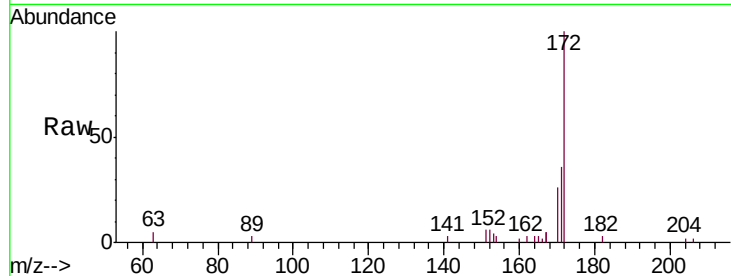




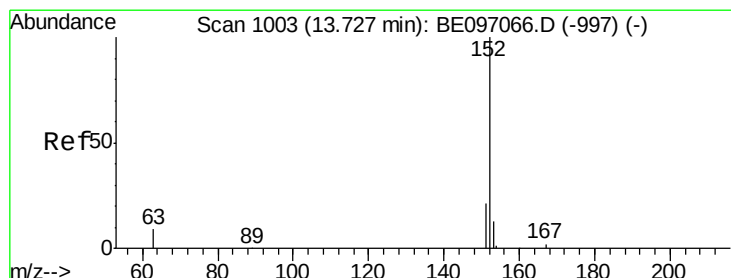
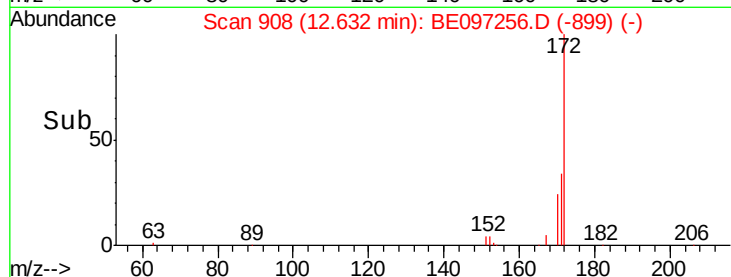
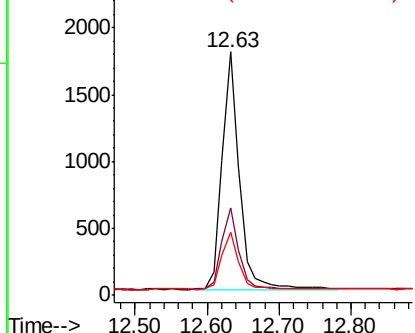
#15
2-Fluorobiphenyl
Concen: 0.422 ng
RT: 12.63 min Scan# 908
Delta R.T. -0.00 min
Lab File: BE097256.D
Acq: 10 Aug 2018 10:58

Instrument :
BNA_E
ClientSampleId :
PB111580BS

Tgt Ion:172 Resp: 2954
Ion Ratio Lower Upper
172 100
171 35.7 29.9 44.9
170 26.0 21.8 32.8

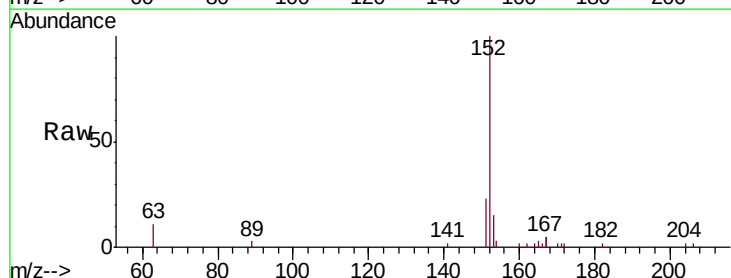


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

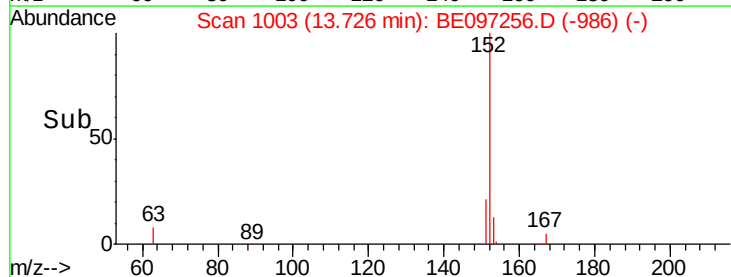
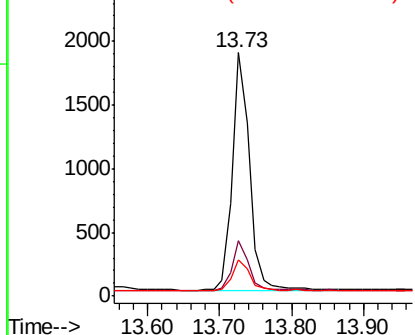


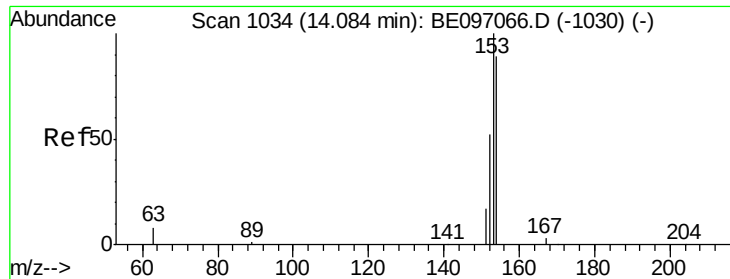
#16
Acenaphthylene
Concen: 0.341 ng
RT: 13.73 min Scan# 1003
Delta R.T. -0.00 min
Lab File: BE097256.D
Acq: 10 Aug 2018 10:58

Tgt Ion:152 Resp: 3104
Ion Ratio Lower Upper
152 100
151 19.7 15.7 23.5
153 12.7 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.333 ng

RT: 14.07 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

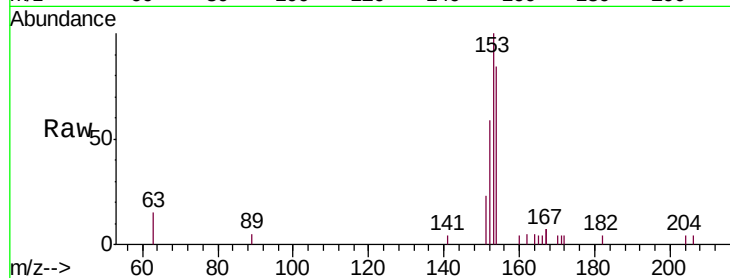
Tgt Ion:154 Resp: 1763

Ion Ratio Lower Upper

154 100

153 115.6 89.2 133.8

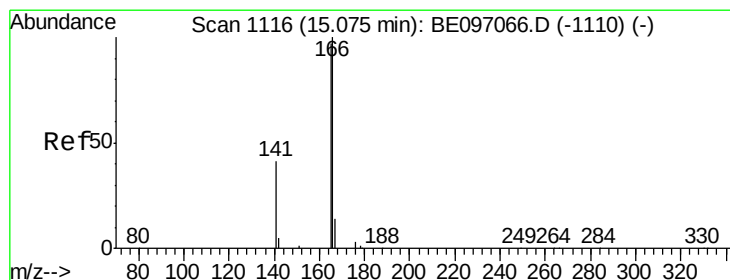
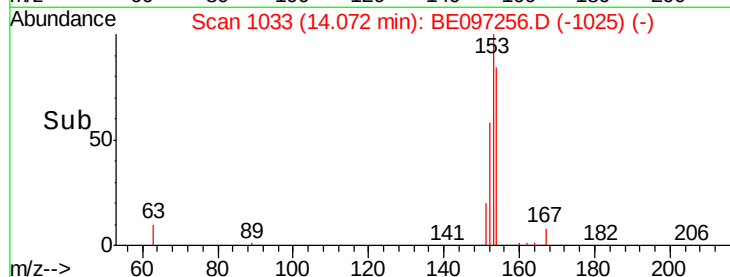
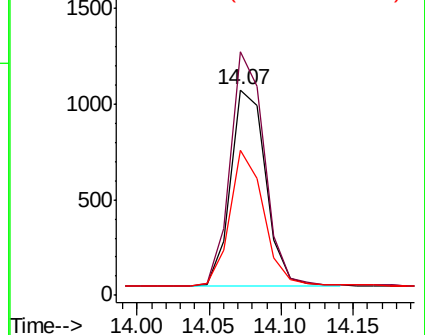
152 65.6 42.0 63.0#



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



#18

Fluorene

Concen: 0.324 ng

RT: 15.08 min Scan# 1116

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

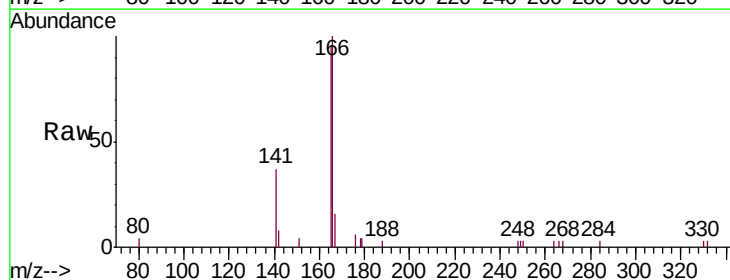
Tgt Ion:166 Resp: 2266

Ion Ratio Lower Upper

166 100

165 98.2 77.8 116.6

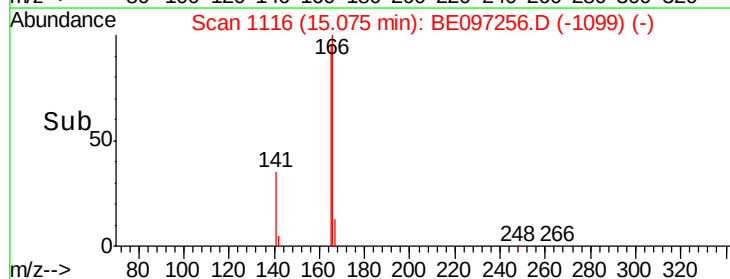
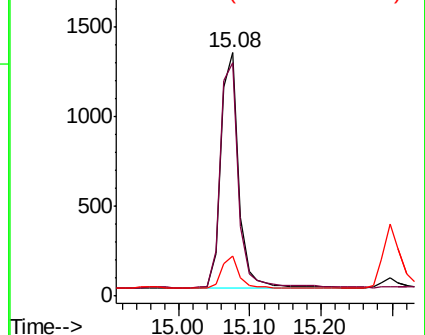
167 13.3 42.4 63.6#

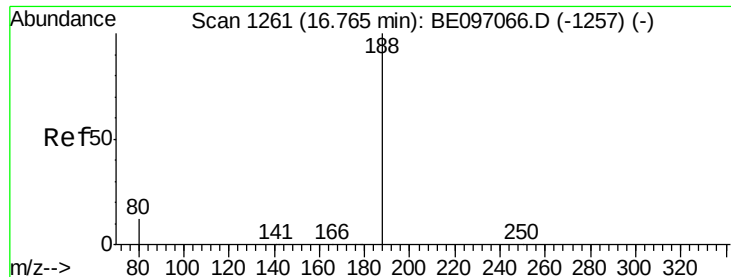


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.77 min Scan# 1261

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

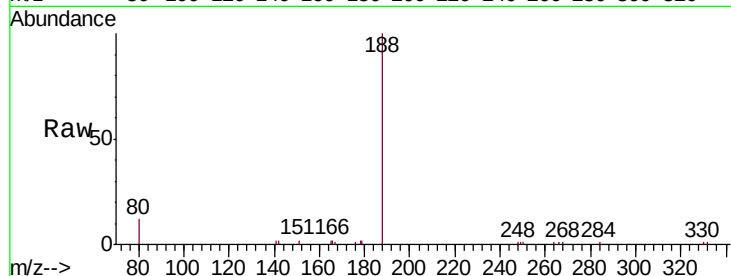
Tgt Ion:188 Resp: 5184

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

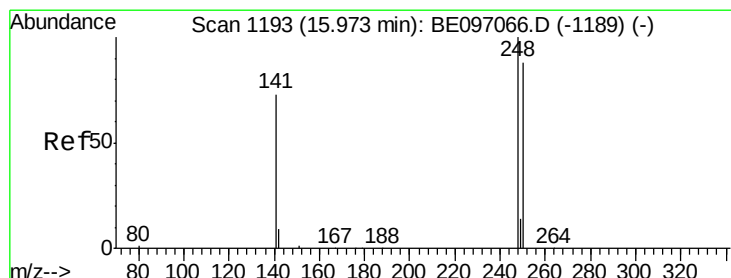
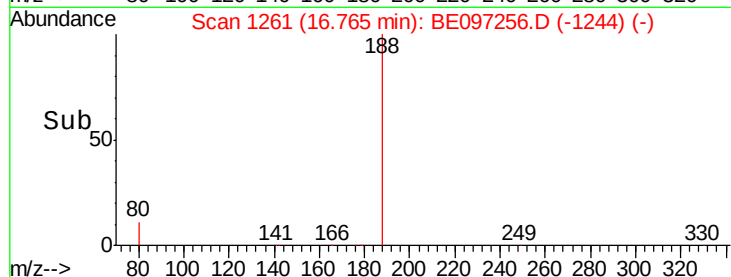
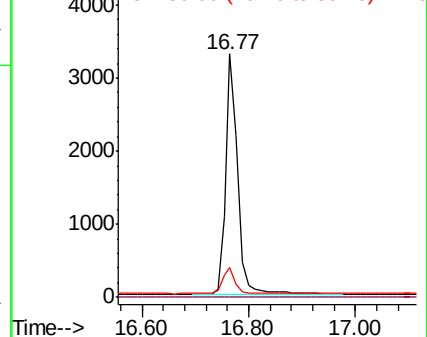
80 12.3 3.6 5.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.296 ng

RT: 15.97 min Scan# 1193

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

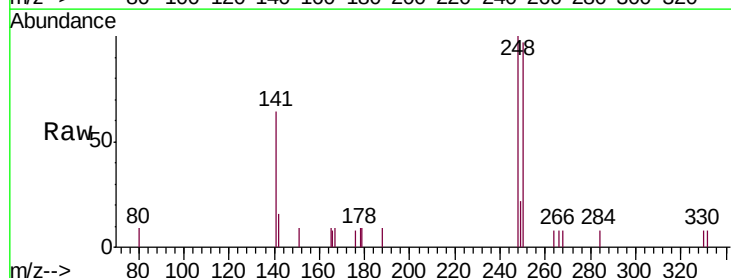
Tgt Ion:248 Resp: 746

Ion Ratio Lower Upper

248 100

250 97.3 62.7 94.1#

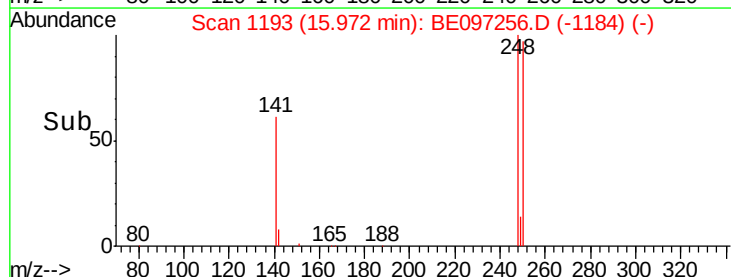
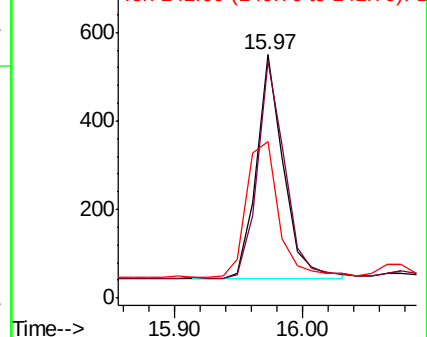
141 64.2 48.2 72.2

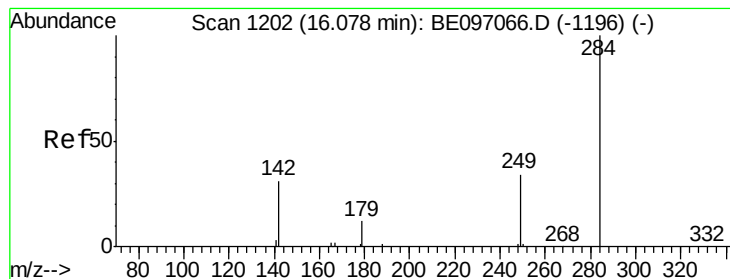


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.333 ng

RT: 16.08 min Scan# 1202

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

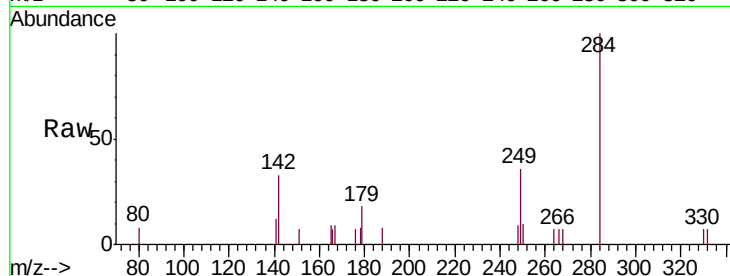
Tgt Ion:284 Resp: 899

Ion Ratio Lower Upper

284 100

142 32.1 22.1 33.1

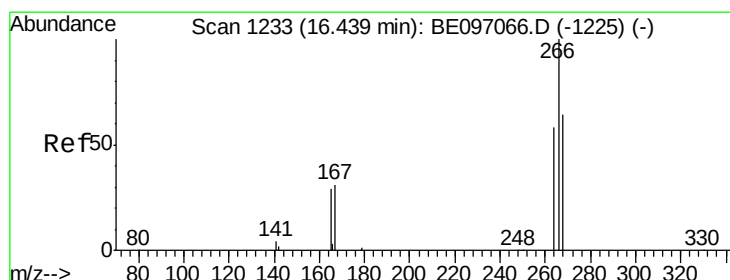
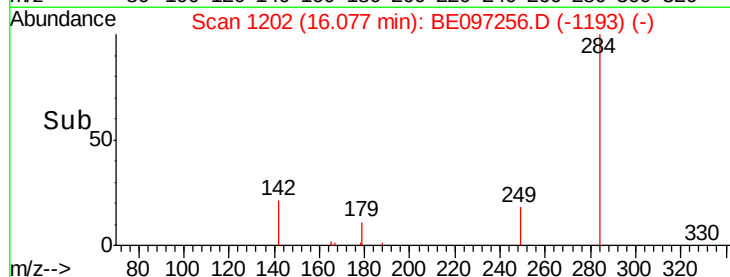
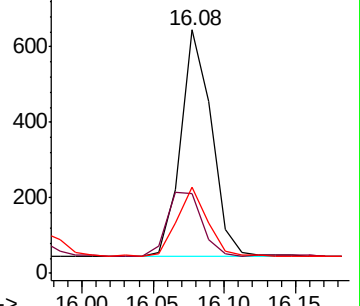
249 30.9 34.8 52.2#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.540 ng

RT: 16.44 min Scan# 1233

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

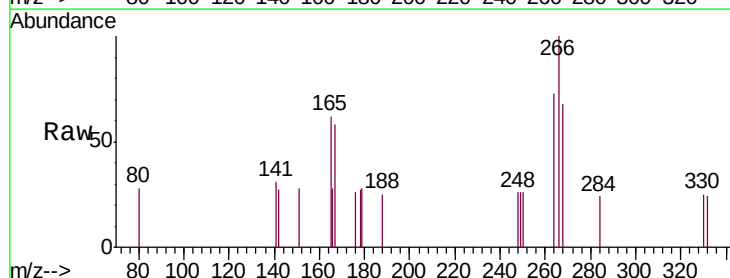
Tgt Ion:266 Resp: 358

Ion Ratio Lower Upper

266 100

264 73.3 72.5 108.7

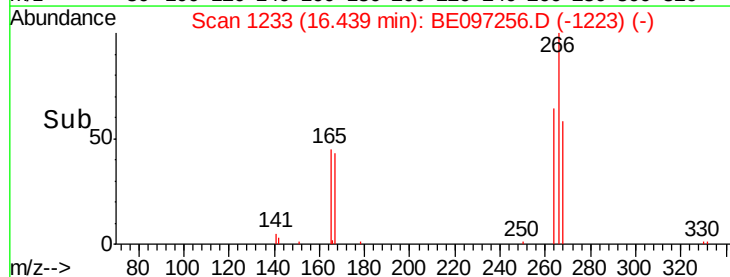
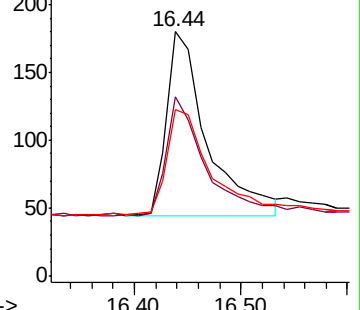
268 68.3 73.8 110.6#

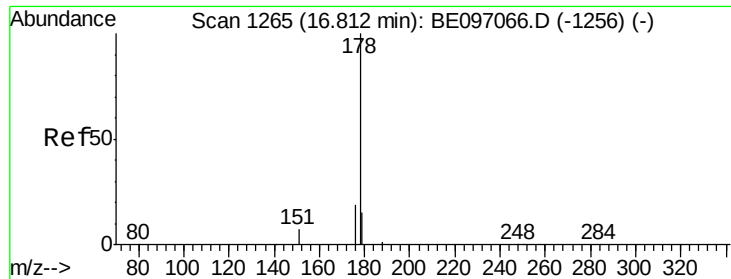


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.334 ng

RT: 16.81 min Scan# 1265

Delta R.T. -0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

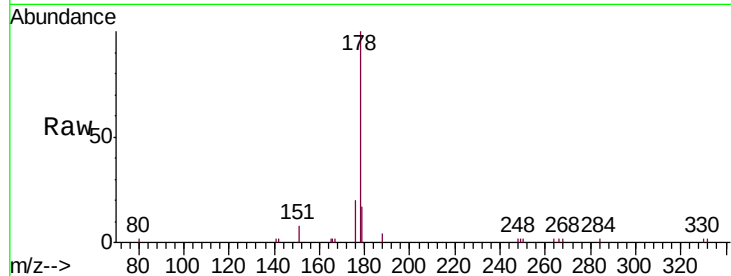
Tgt Ion:178 Resp: 4126

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

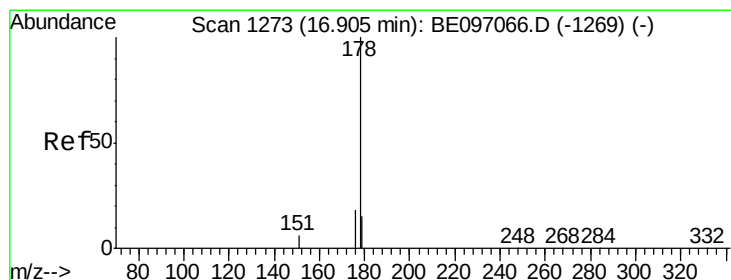
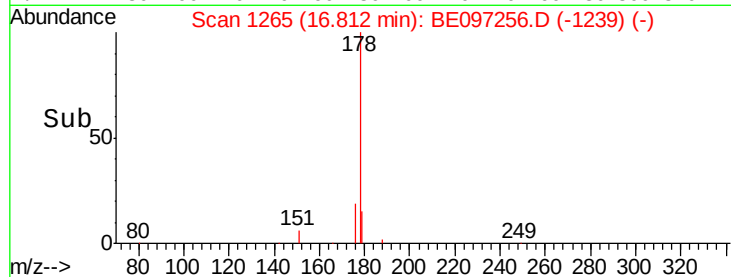
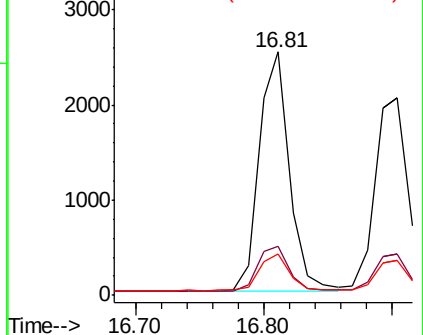
179 15.5 11.8 17.6



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



#24

Anthracene

Concen: 0.336 ng

RT: 16.90 min Scan# 1273

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

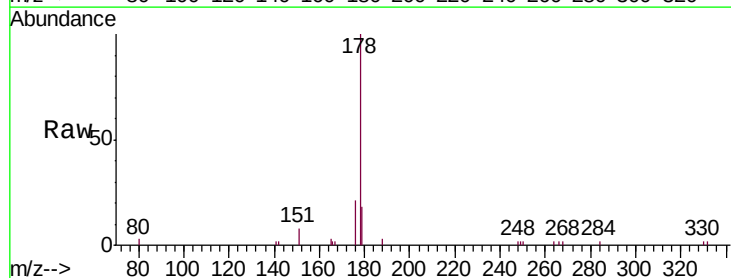
Tgt Ion:178 Resp: 3712

Ion Ratio Lower Upper

178 100

176 18.8 12.8 19.2

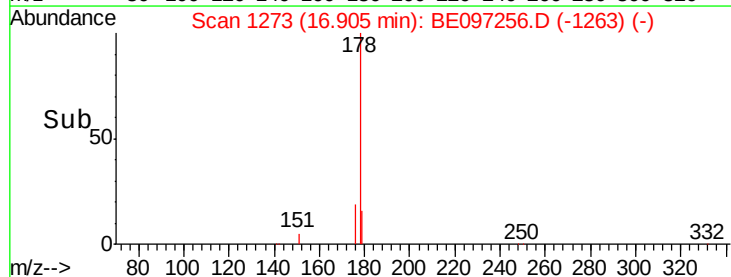
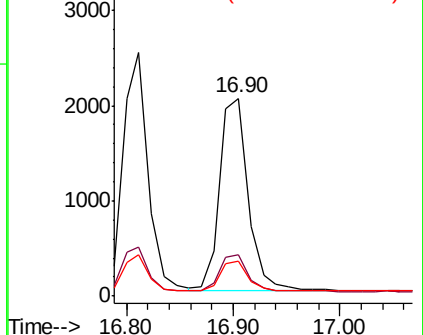
179 15.6 13.0 19.6

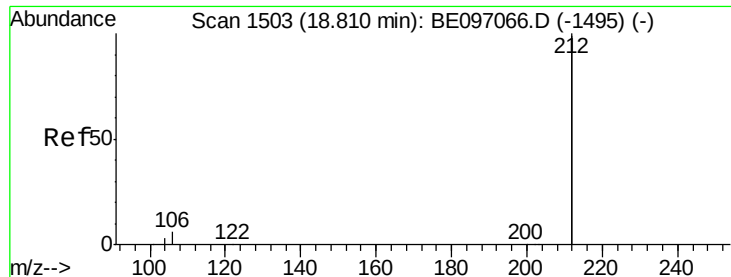


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.368 ng

RT: 18.81 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

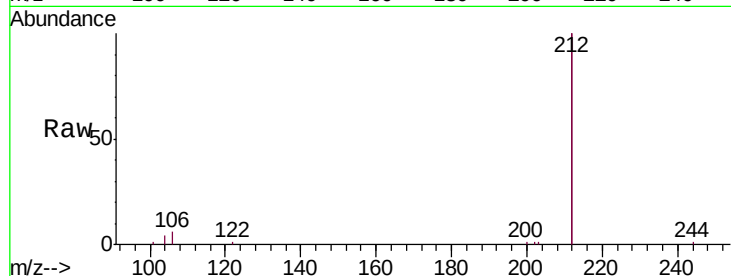
Tgt Ion:212 Resp: 19084

Ion Ratio Lower Upper

212 100

106 3.0 2.8 4.2

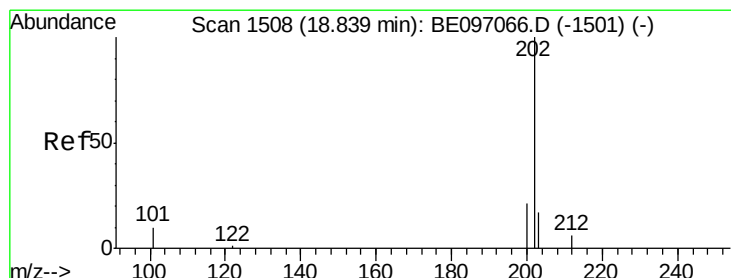
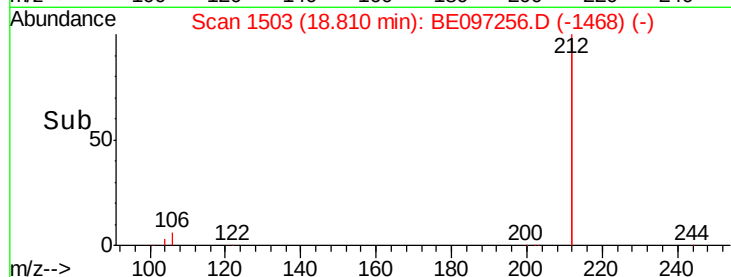
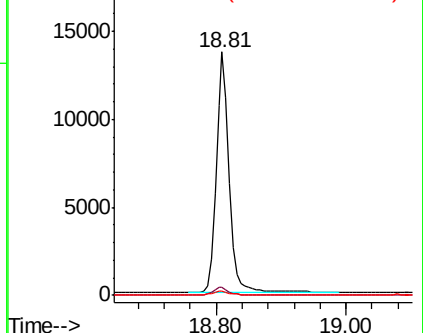
104 1.8 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.379 ng

RT: 18.84 min Scan# 1508

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

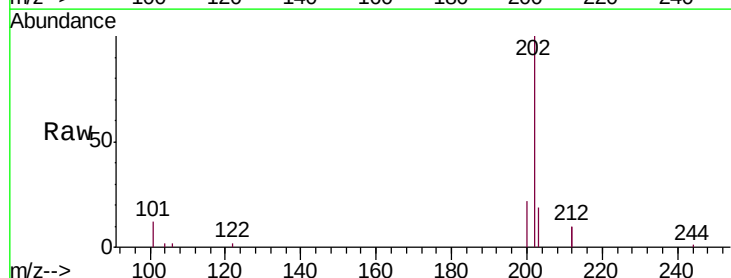
Tgt Ion:202 Resp: 5257

Ion Ratio Lower Upper

202 100

101 10.3 9.8 14.8

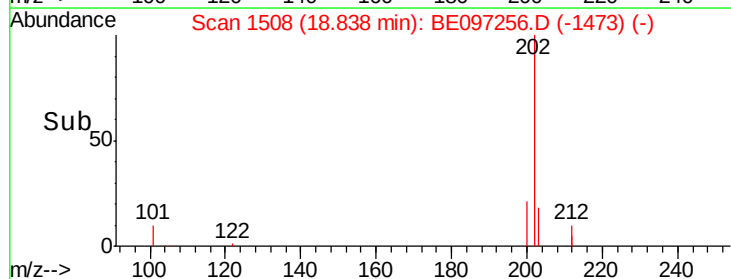
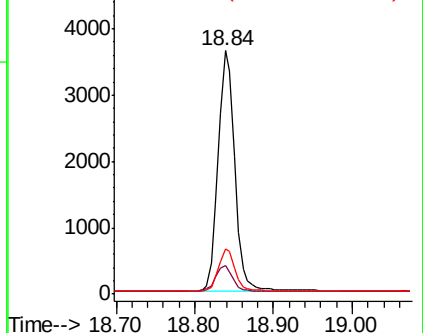
203 17.0 13.7 20.5

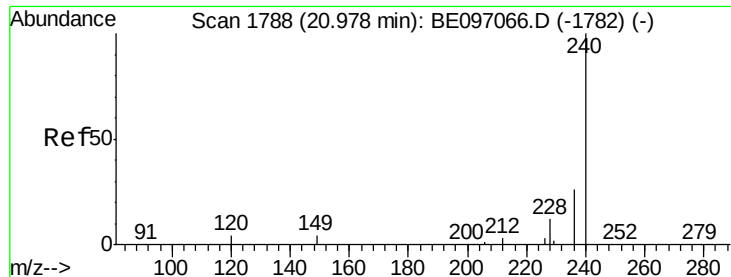


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

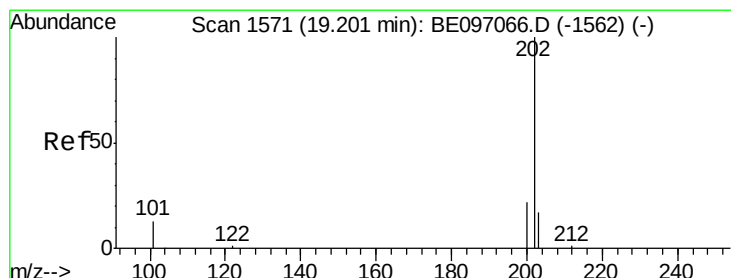
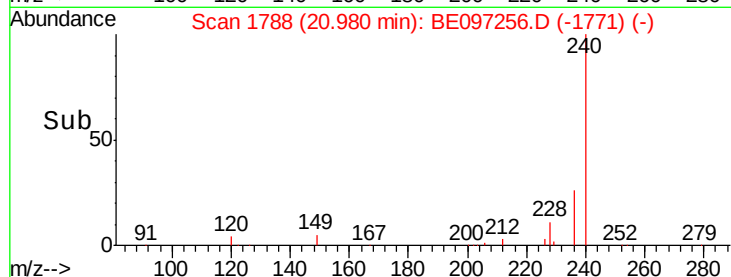
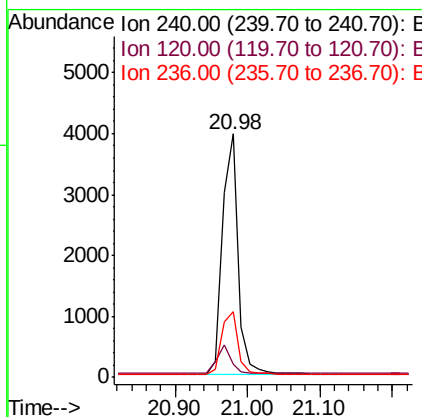
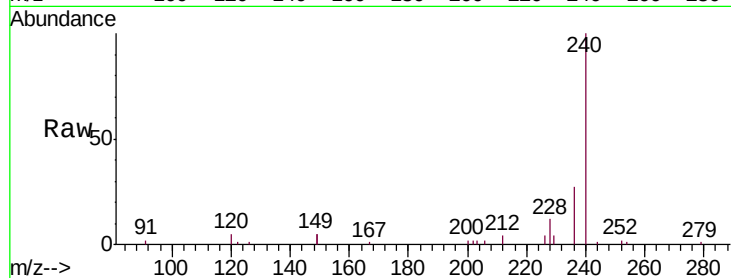




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.98 min Scan# 1788
 Delta R.T. 0.00 min
 Lab File: BE097256.D
 Acq: 10 Aug 2018 10:58

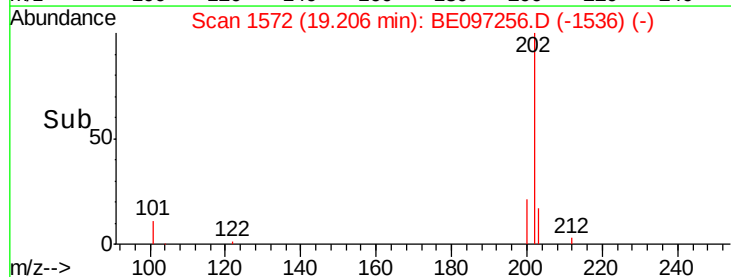
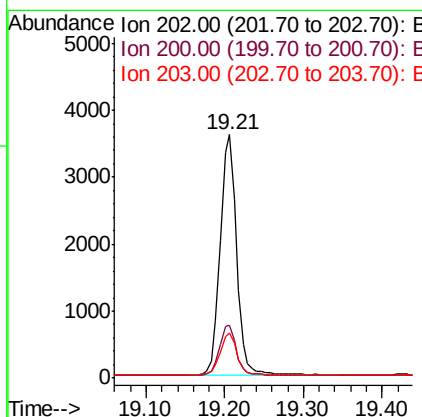
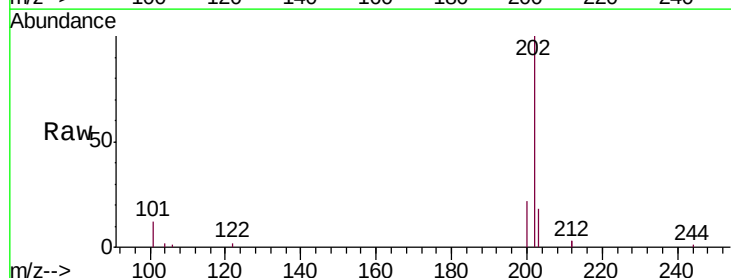
Instrument :
 BNA_E
 ClientSampleId :
 PB111580BS

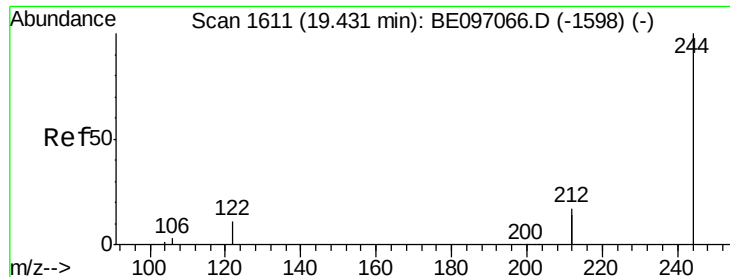
Tgt Ion:240 Resp: 6081
 Ion Ratio Lower Upper
 240 100
 120 5.3 5.5 8.3#
 236 26.8 20.7 31.1



#28
 Pyrene
 Concen: 0.309 ng
 RT: 19.21 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BE097256.D
 Acq: 10 Aug 2018 10:58

Tgt Ion:202 Resp: 5158
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.6 25.0
 203 17.6 13.8 20.8





#29

Terphenyl-d14

Concen: 0.271 ng

RT: 19.43 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

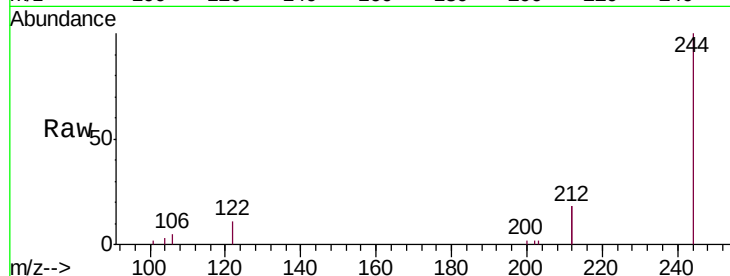
Tgt Ion:244 Resp: 3171

Ion Ratio Lower Upper

244 100

212 36.6 25.4 38.0

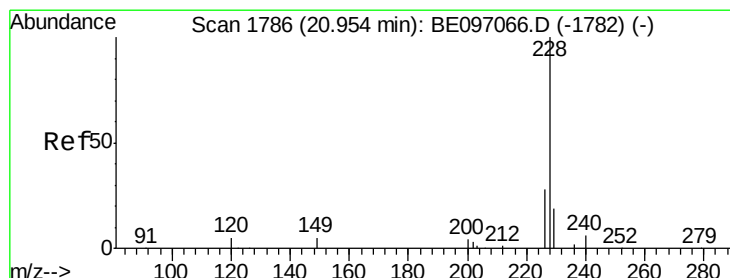
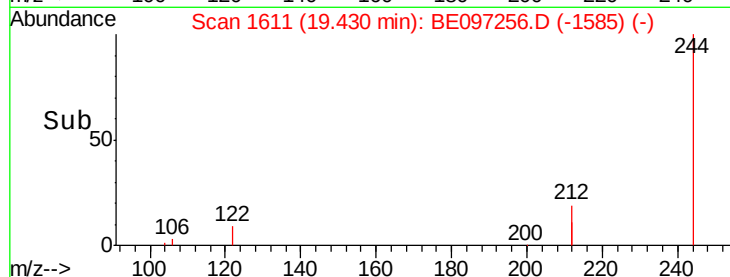
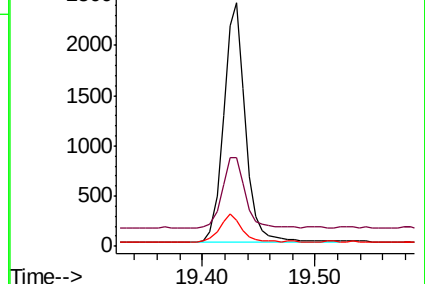
122 10.9 8.1 12.1



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



#30

Benzo(a)anthracene

Concen: 0.347 ng

RT: 20.96 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

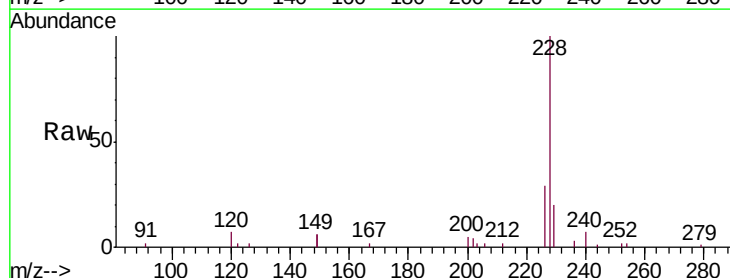
Tgt Ion:228 Resp: 5256

Ion Ratio Lower Upper

228 100

226 29.2 24.0 36.0

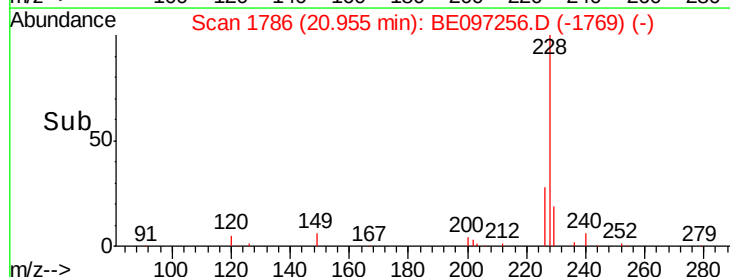
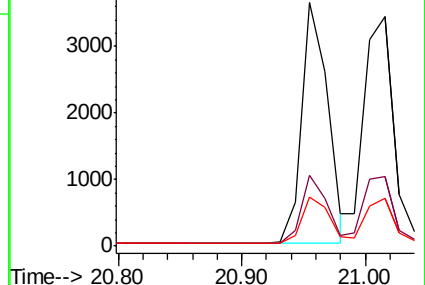
229 19.9 16.0 24.0

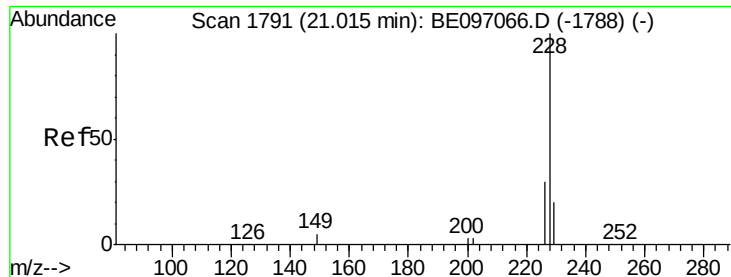


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.350 ng

RT: 21.02 min Scan# 1791

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

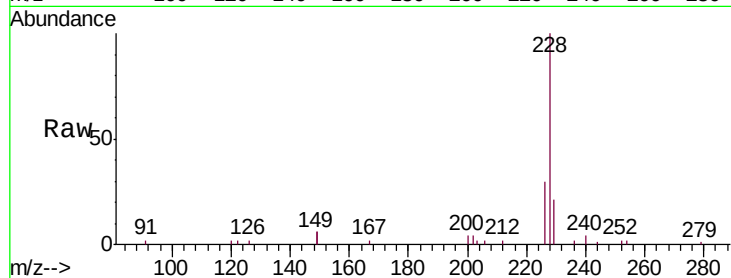
Tgt Ion:228 Resp: 5682

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

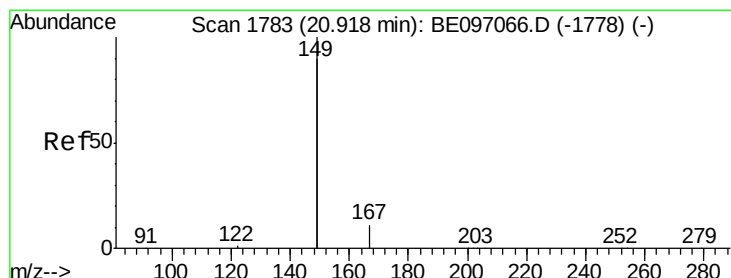
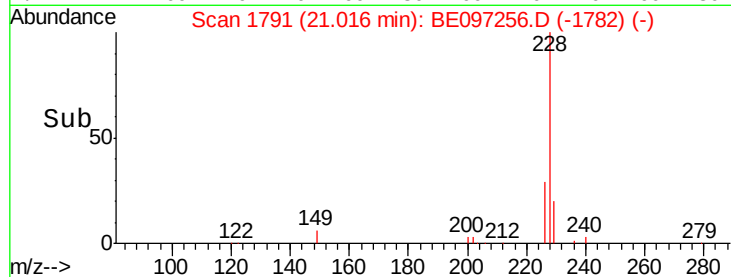
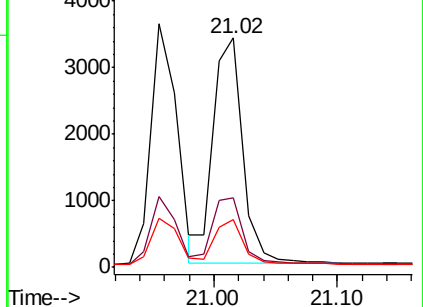
229 20.9 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.413 ng

RT: 20.92 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

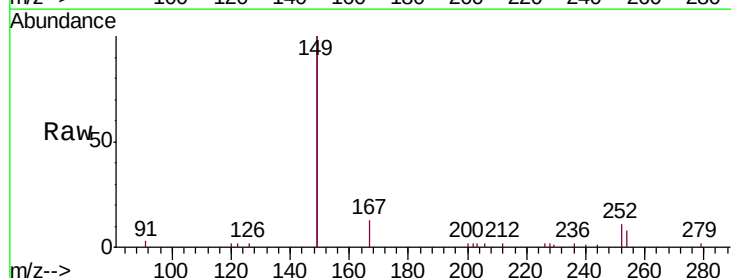
Tgt Ion:149 Resp: 6595

Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.0

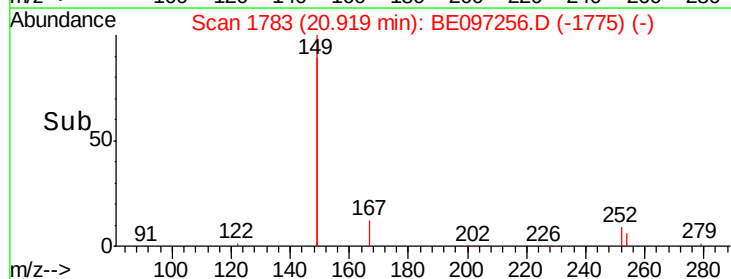
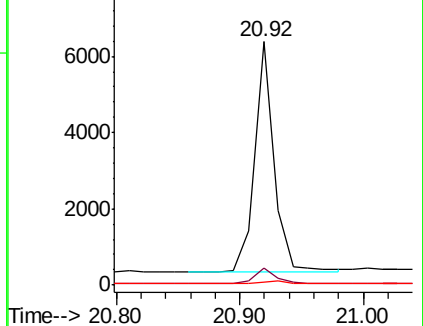
279 1.0 0.7 1.1

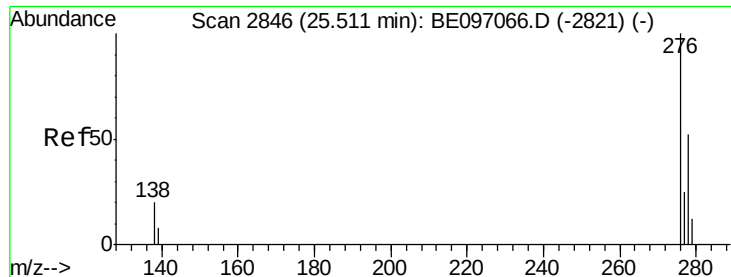


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.455 ng

RT: 25.52 min Scan# 2848

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

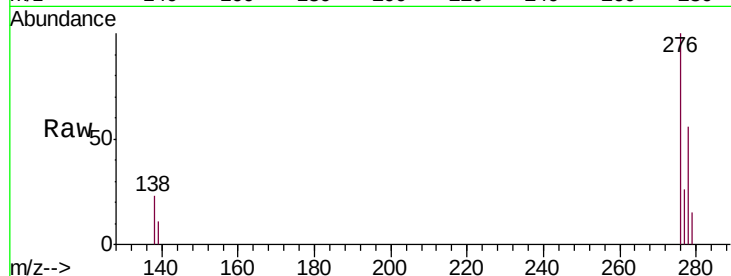
Tgt Ion:276 Resp: 6679

Ion Ratio Lower Upper

276 100

138 21.1 22.5 33.7#

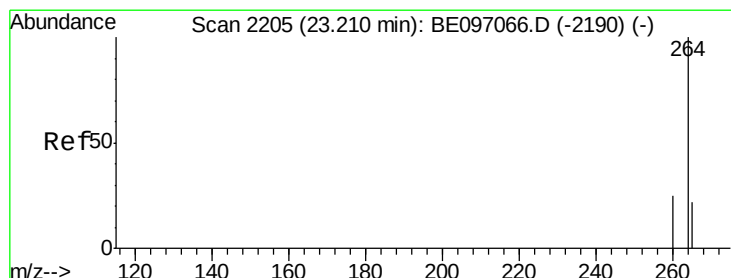
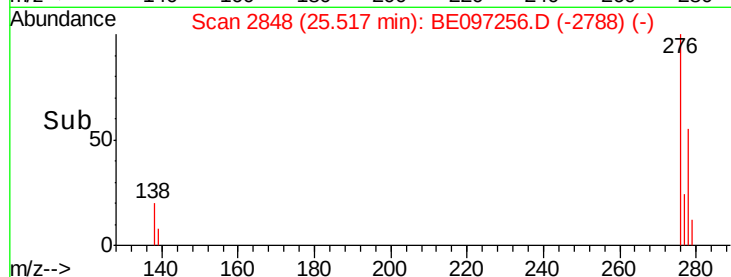
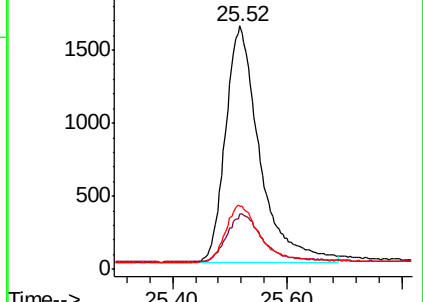
277 24.4 19.9 29.9



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.21 min Scan# 2206

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

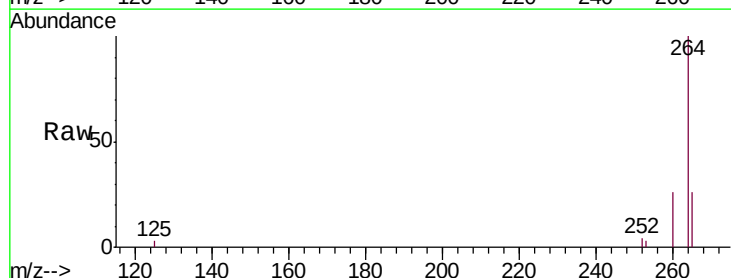
Tgt Ion:264 Resp: 5993

Ion Ratio Lower Upper

264 100

260 26.0 20.5 30.7

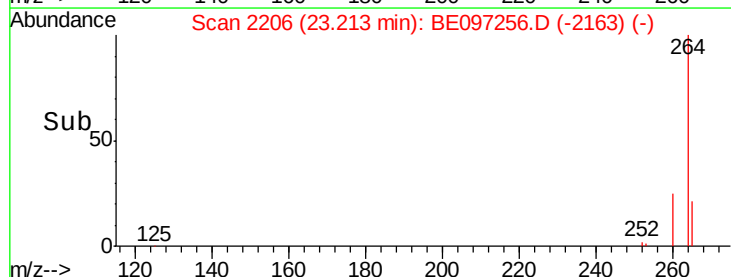
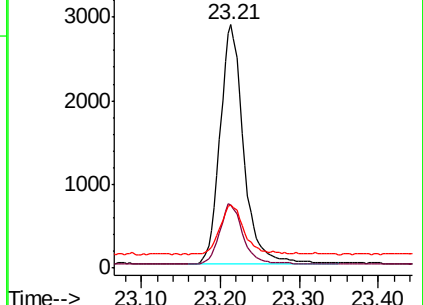
265 26.1 22.8 34.2

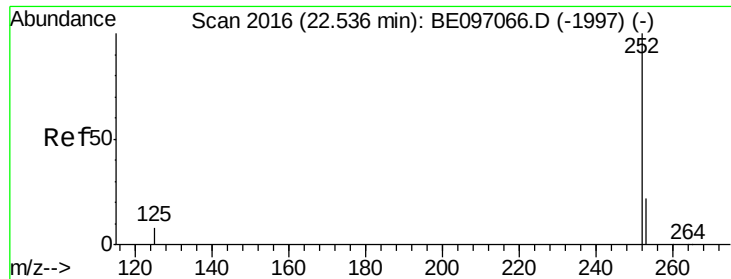


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.343 ng

RT: 22.54 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

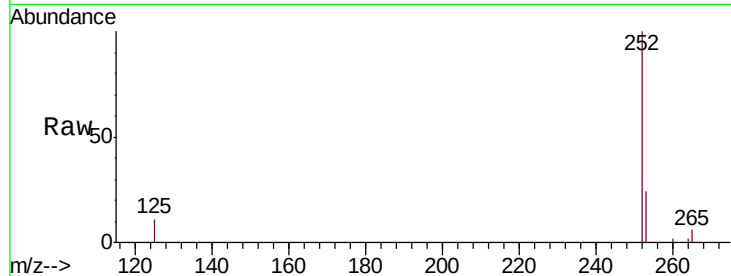
Tgt Ion:252 Resp: 5220

Ion Ratio Lower Upper

252 100

253 24.4 20.0 30.0

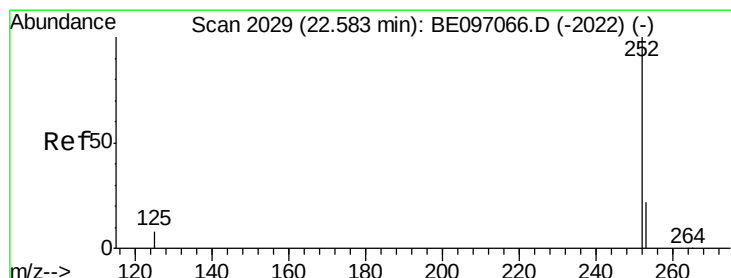
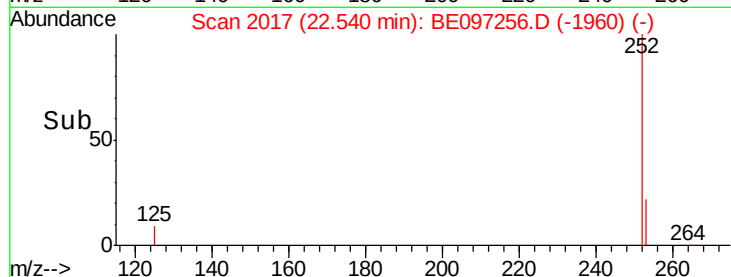
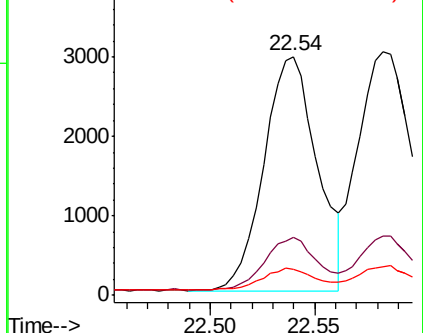
125 11.0 16.0 24.0#



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



#36

Benzo(k)fluoranthene

Concen: 0.339 ng

RT: 22.58 min Scan# 2029

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

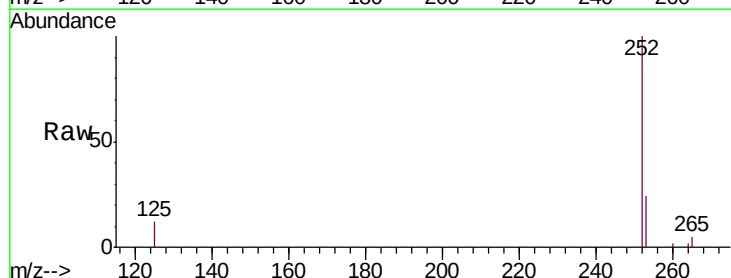
Tgt Ion:252 Resp: 6017

Ion Ratio Lower Upper

252 100

253 24.2 16.0 24.0#

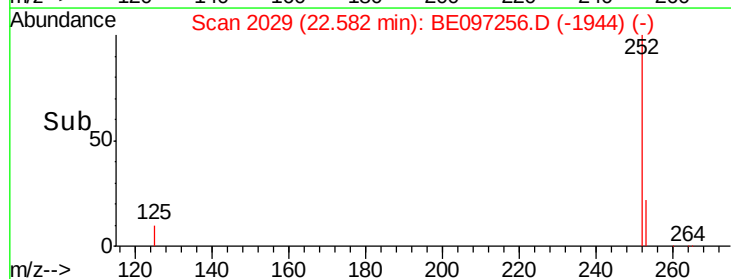
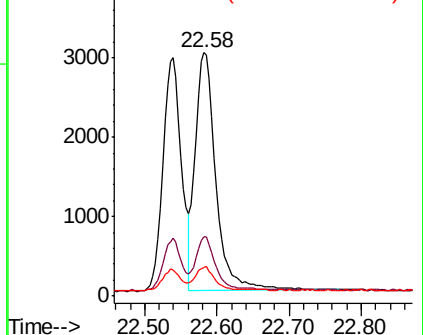
125 11.8 8.0 12.0

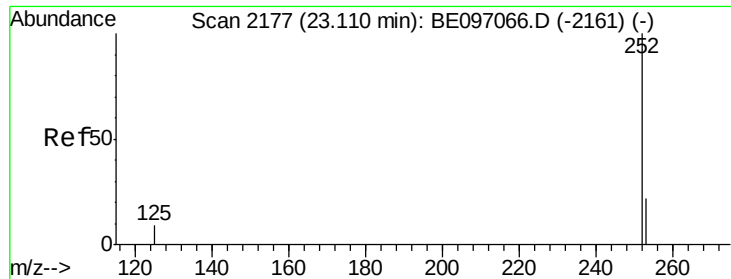


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.11 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

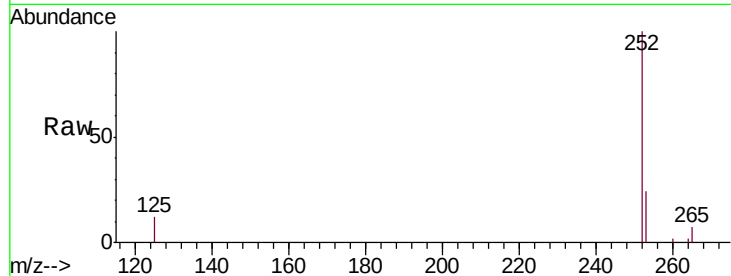
Tgt Ion:252 Resp: 5242

Ion Ratio Lower Upper

252 100

253 24.4 16.0 24.0#

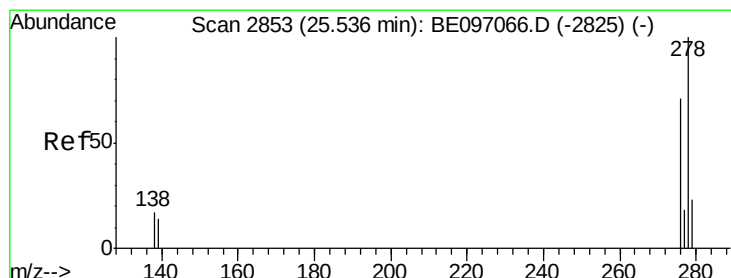
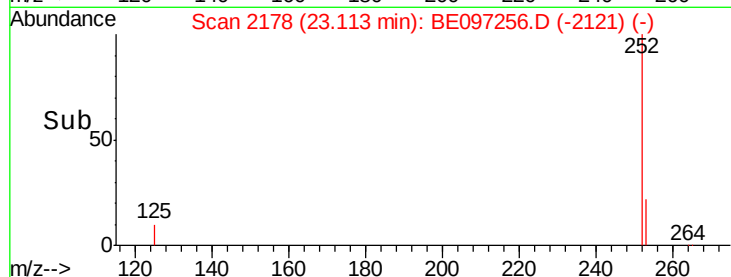
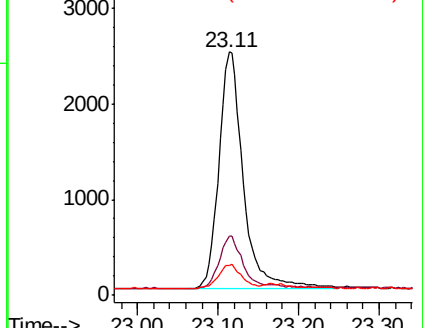
125 12.4 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.385 ng

RT: 25.54 min Scan# 2854

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

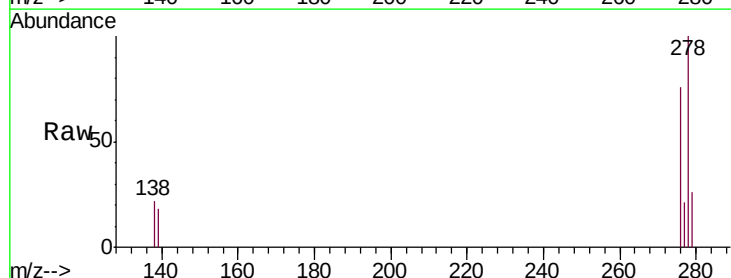
Tgt Ion:278 Resp: 5506

Ion Ratio Lower Upper

278 100

139 17.5 16.0 24.0

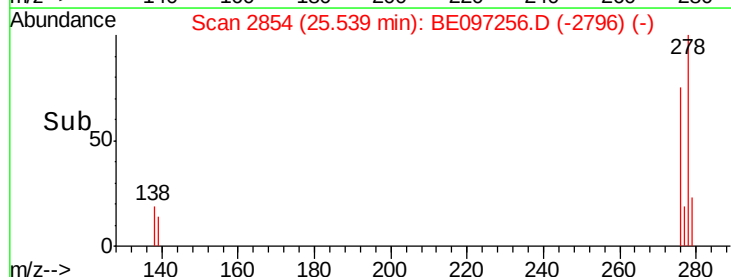
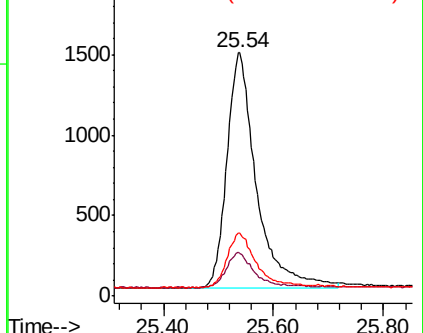
279 26.2 20.0 30.0

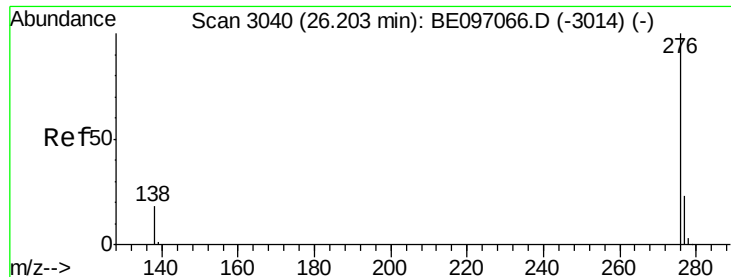


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.370 ng

RT: 26.22 min Scan# 3044

Delta R.T. 0.01 min

Lab File: BE097256.D

Acq: 10 Aug 2018 10:58

Instrument :

BNA_E

ClientSampleId :

PB111580BS

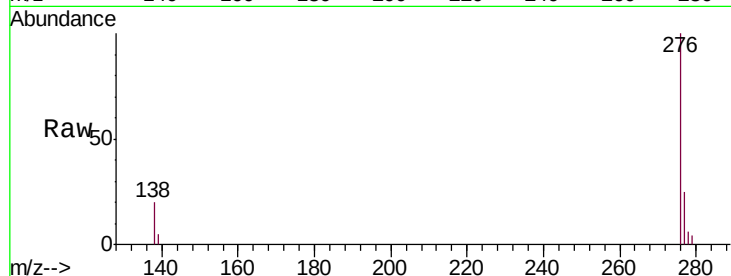
Tgt Ion: 276 Resp: 5614

Ion Ratio Lower Upper

276 100

277 25.0 16.0 24.0#

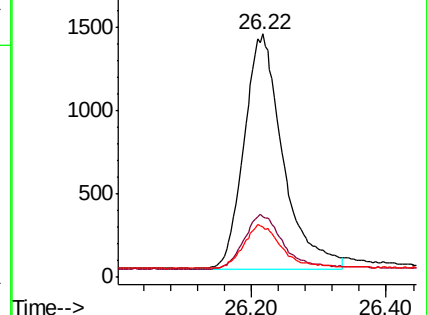
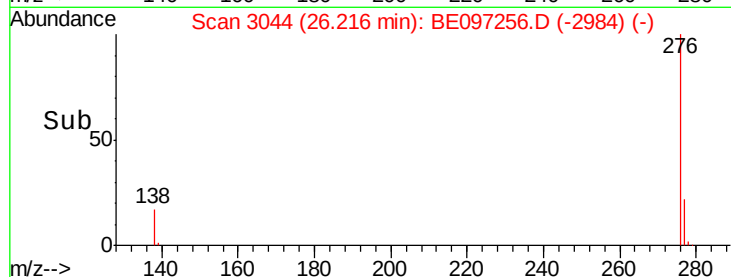
138 20.5 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

2000 Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE081018\
 Data File : BE097256.D
 Acq On : 10 Aug 2018 10:58
 Operator : SJ/JU
 Sample : PB111580BS
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB111580BS

Quant Time: Aug 10 16:04:08 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE072418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 31 10:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	1083	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	4404	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	2027	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	5184	0.40	ng	0.00
27) Chrysene-d12	20.98	240	6081	0.40	ng	0.00
34) Perylene-d12	23.21	264	5993	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.06	112	1000	0.33	ng	0.01
5) Phenol-d6	6.60	99	1243	0.28	ng	0.00
8) Nitrobenzene-d5	8.52	82	1394	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	11.72	152	2566	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.53	330	163	0.24	ng	0.01
15) 2-Fluorobiphenyl	12.63	172	2954	0.42	ng	0.00
25) Fluoranthene-d10	18.81	212	19084	0.37	ng	0.00
29) Terphenyl-d14	19.43	244	3171	0.27	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.11	88	595	0.346	ng	# 77
3) n-Nitrosodimethylamine	3.38	42	529	0.275	ng	# 77
6) bis(2-Chloroethyl)ether	6.84	93	1177	0.289	ng	91
9) Naphthalene	10.18	128	13771	0.348	ng	99
10) Hexachlorobutadiene	10.48	225	620	0.350	ng	97
12) 2-Methylnaphthalene	11.80	142	2090	0.308	ng	96
16) Acenaphthylene	13.73	152	3104	0.341	ng	99
17) Acenaphthene	14.07	154	1763	0.333	ng	# 91
18) Fluorene	15.08	166	2266	0.324	ng	# 80
20) 4-Bromophenyl-phenylether	15.97	248	746	0.296	ng	# 85
21) Hexachlorobenzene	16.08	284	899	0.333	ng	# 85
22) Pentachlorophenol	16.44	266	358	0.540	ng	# 78
23) Phenanthrene	16.81	178	4126	0.334	ng	99
24) Anthracene	16.90	178	3712	0.336	ng	96
26) Fluoranthene	18.84	202	5257	0.379	ng	98
28) Pyrene	19.21	202	5158	0.309	ng	100
30) Benzo(a)anthracene	20.96	228	5256	0.347	ng	99
31) Chrysene	21.02	228	5682	0.350	ng	99
32) Bis(2-ethylhexyl)phthalate	20.92	149	6595	0.413	ng	100
33) Indeno(1,2,3-cd)pyrene	25.52	276	6679	0.455	ng	# 92
35) Benzo(b)fluoranthene	22.54	252	5220	0.343	ng	# 91
36) Benzo(k)fluoranthene	22.58	252	6017	0.339	ng	# 92
37) Benzo(a)pyrene	23.11	252	5242	0.366	ng	# 92
38) Dibenzo(a,h)anthracene	25.54	278	5506	0.385	ng	96
39) Benzo(g,h,i)perylene	26.22	276	5614	0.370	ng	# 90

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