

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE021017\  
 Data File : BE092722.D  
 Acq On : 10 Feb 2017 15:29  
 Operator : SJ/MA  
 Sample : I1744-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-170206

Quant Time: Feb 10 16:07:53 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE011617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 17 10:14:01 2017  
 Response via : Initial Calibration

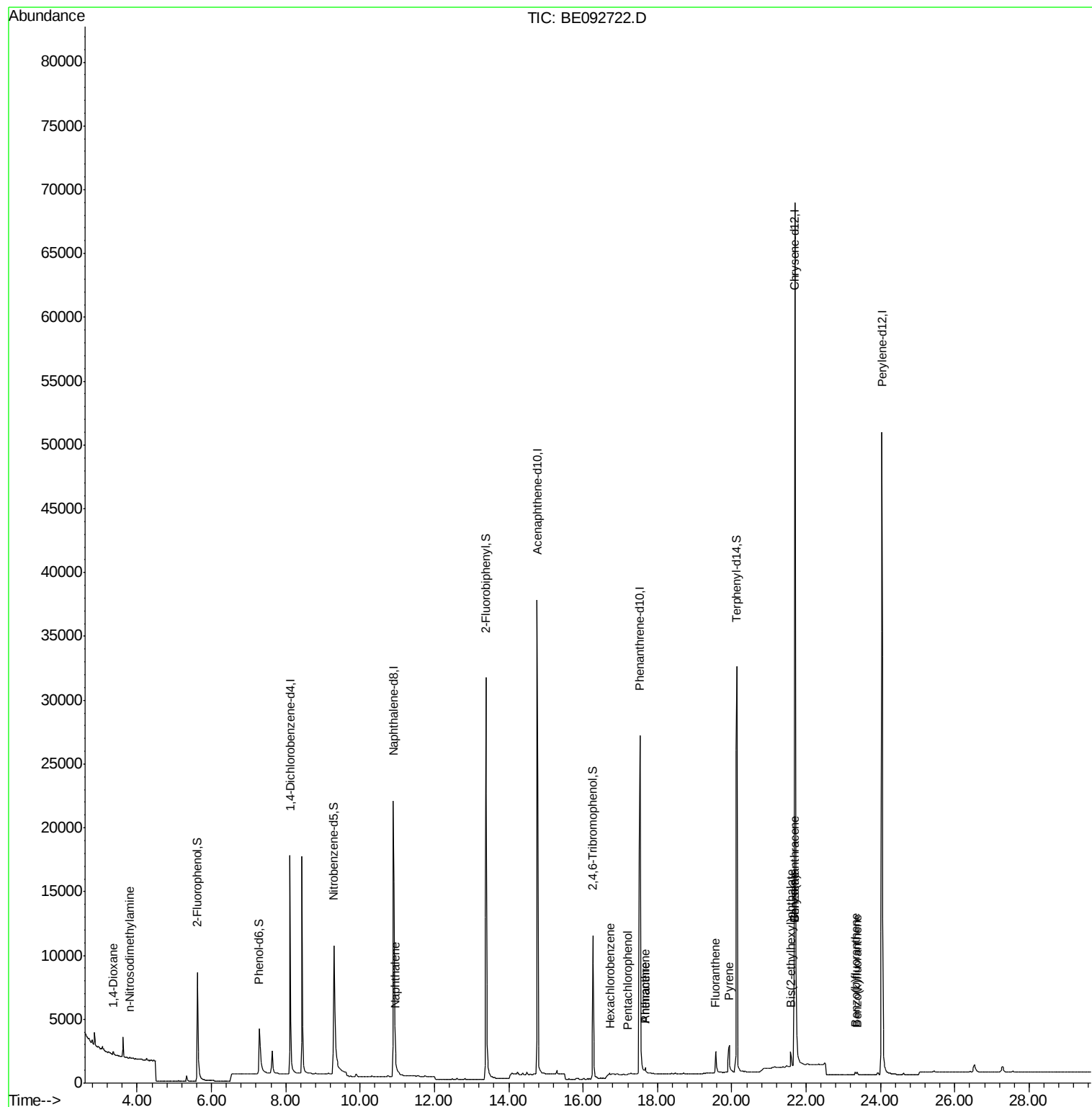
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.12  | 152  | 10218    | 5.00  | ng    | -0.02    |
| 7) Naphthalene-d8              | 10.89 | 136  | 43421    | 5.00  | ng    | -0.02    |
| 12) Acenaphthene-d10           | 14.77 | 164  | 27400    | 5.00  | ng    | -0.02    |
| 18) Phenanthrene-d10           | 17.53 | 188  | 52866    | 5.00  | ng    | 0.00     |
| 24) Chrysene-d12               | 21.70 | 240  | 80270    | 5.00  | ng    | -0.02    |
| 31) Perylene-d12               | 24.04 | 264  | 72275    | 5.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.62  | 112  | 8823     | 3.87  | ng    | -0.03    |
| 5) Phenol-d6                   | 7.29  | 99   | 6283     | 2.25  | ng    | -0.05    |
| 8) Nitrobenzene-d5             | 9.29  | 82   | 15322    | 5.44  | ng    | -0.05    |
| 13) 2,4,6-Tribromophenol       | 16.26 | 330  | 8353     | 10.29 | ng    | -0.04    |
| 14) 2-Fluorobiphenyl           | 13.39 | 172  | 37102    | 5.51  | ng    | -0.03    |
| 26) Terphenyl-d14              | 20.14 | 244  | 51091    | 4.50  | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.36  | 88   | 171      | 0.05  | ng    | # 22     |
| 3) n-Nitrosodimethylamine      | 3.80  | 42   | 117      | 0.06  | ng    | # 5      |
| 9) Naphthalene                 | 10.95 | 128  | 233      | 0.03  | ng    | # 18     |
| 19) Hexachlorobenzene          | 16.73 | 284  | 482      | 0.19  | ng    | # 1      |
| 20) Pentachlorophenol          | 17.21 | 266  | 26       | 0.05  | ng    | # 75     |
| 21) Phenanthrene               | 17.67 | 178  | 675      | 0.06  | ng    | 95       |
| 22) Anthracene                 | 17.67 | 178  | 771      | 0.07  | ng    | # 93     |
| 23) Fluoranthene               | 19.56 | 202  | 3971     | 0.08  | ng    | 98       |
| 25) Pyrene                     | 19.93 | 202  | 3740     | 0.05  | ng    | 97       |
| 27) Benzo(a)anthracene         | 21.68 | 228  | 6184     | 0.08  | ng    | # 78     |
| 28) Chrysene                   | 21.68 | 228  | 6355     | 0.07  | ng    | # 83     |
| 29) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 2219     | 0.34  | ng    | # 56     |
| 32) Benzo(b)fluoranthene       | 23.32 | 252  | 371      | 0.02  | ng    | # 8      |
| 33) Benzo(k)fluoranthene       | 23.37 | 252  | 359      | 0.02  | ng    | # 9      |

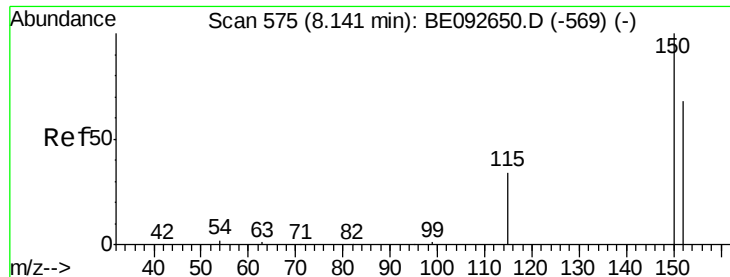
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.12 min Scan# 574

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

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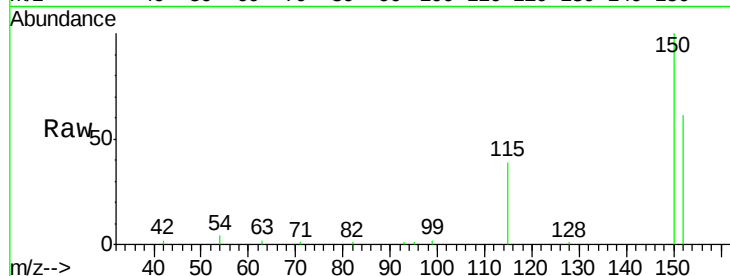
Tgt Ion:152 Resp: 10218

Ion Ratio Lower Upper

152 100

150 163.9 106.0 159.0#

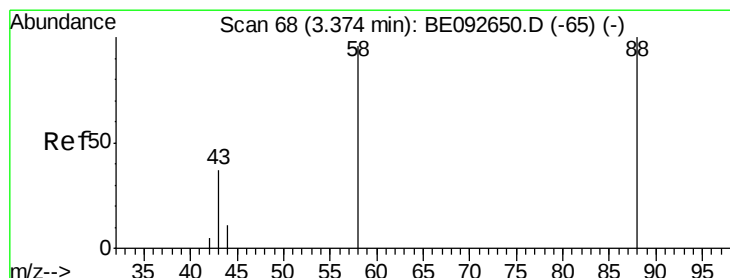
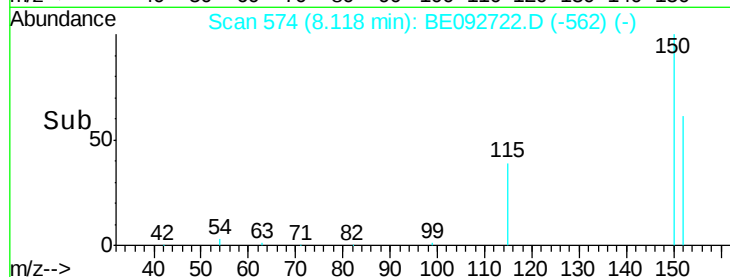
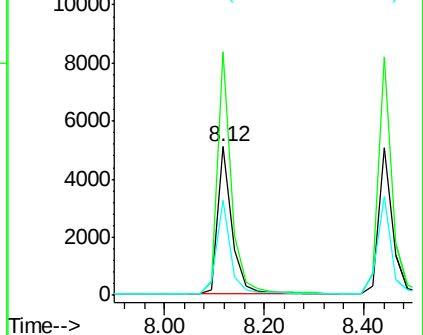
115 64.1 31.2 46.8#



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: 0.05 ng

RT: 3.36 min Scan# 67

Delta R.T. -0.01 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

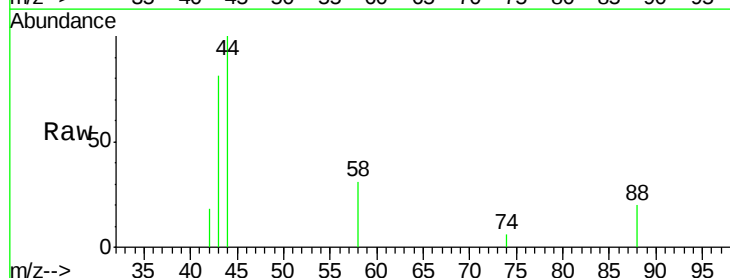
Tgt Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

58 87.7 63.6 95.4

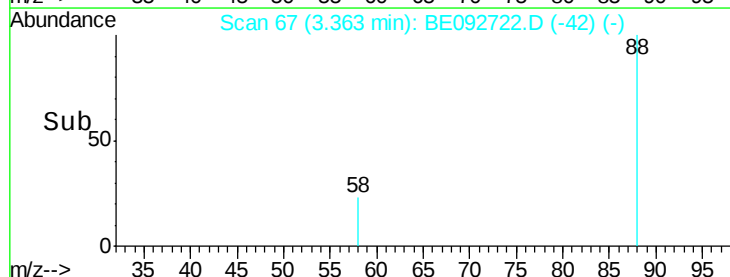
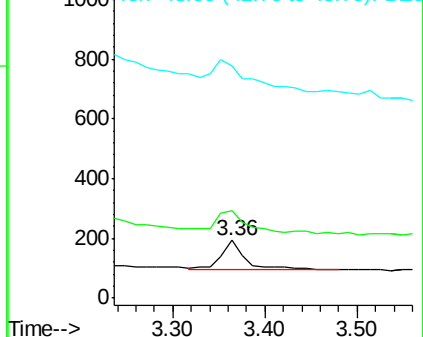
43 170.8 28.0 42.0#

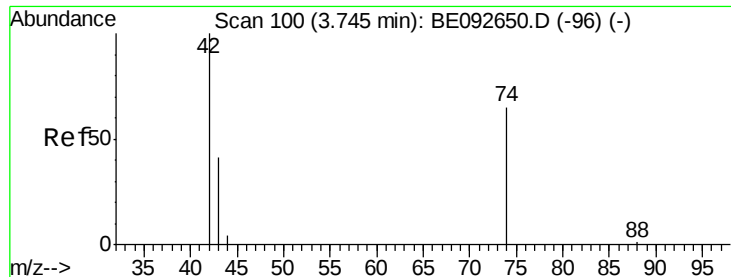


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.06 ng

RT: 3.80 min Scan# 105

Delta R.T. 0.06 min

Lab File: BE092722.D

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Instrument :

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KY038PS027-170206

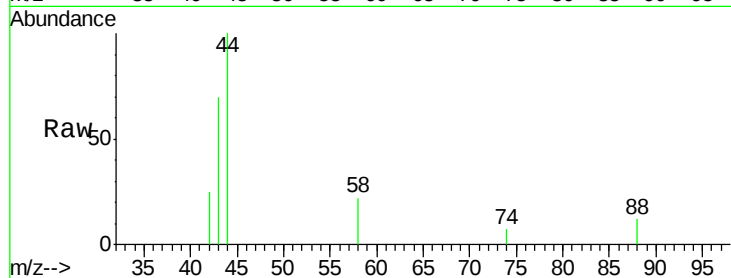
Tgt Ion: 42 Resp: 117

Ion Ratio Lower Upper

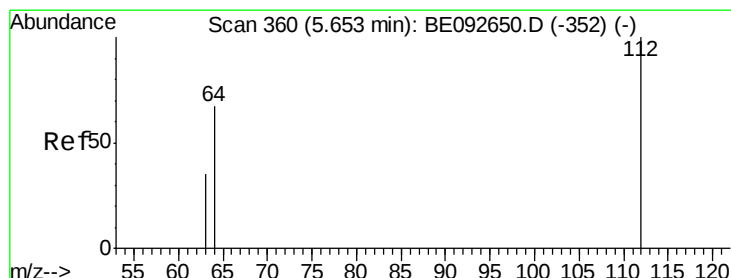
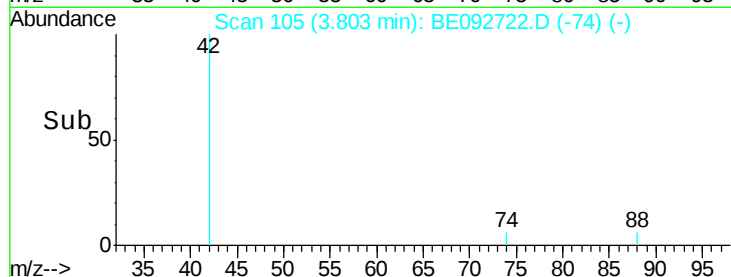
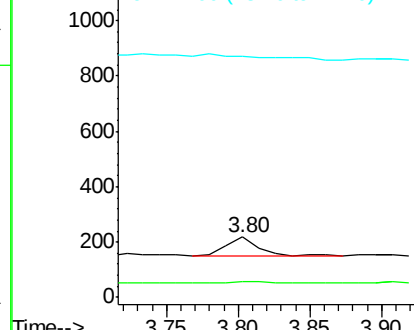
42 100

74 3.4 86.0 129.0#

44 0.0 5.1 7.7#



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: 3.87 ng

RT: 5.62 min Scan# 355

Delta R.T. -0.03 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

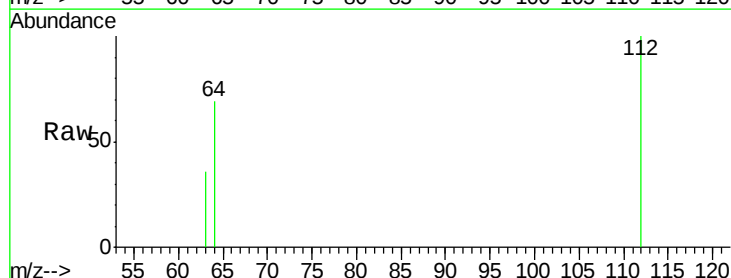
Tgt Ion: 112 Resp: 8823

Ion Ratio Lower Upper

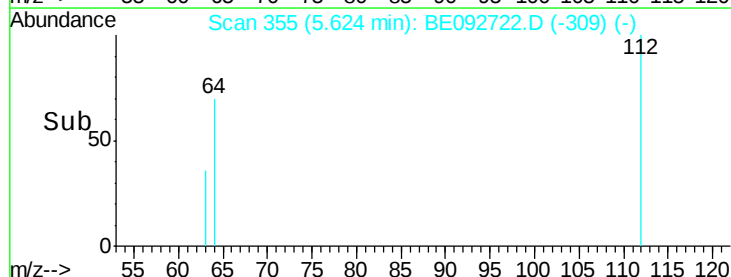
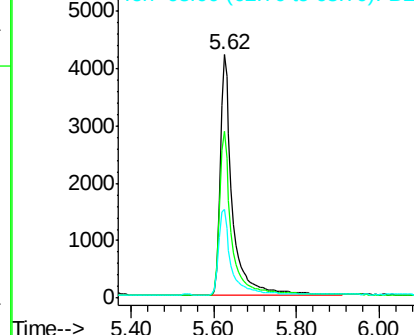
112 100

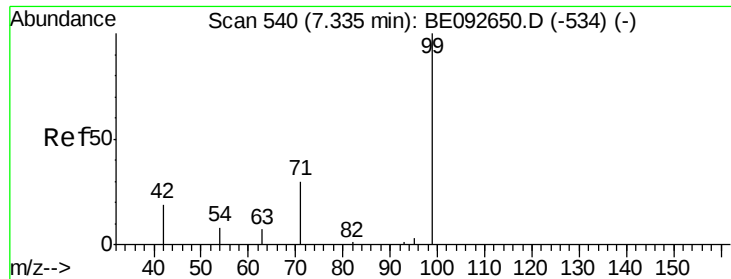
64 68.1 53.5 80.3

63 36.6 27.9 41.9



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: 2.25 ng

RT: 7.29 min Scan# 538

Delta R.T. -0.05 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

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KY038PS027-170206

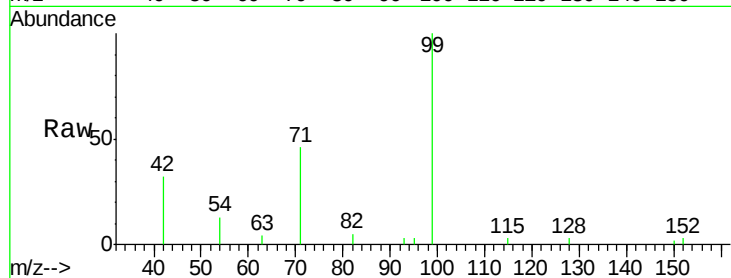
Tgt Ion: 99 Resp: 6283

Ion Ratio Lower Upper

99 100

42 23.7 16.0 24.0

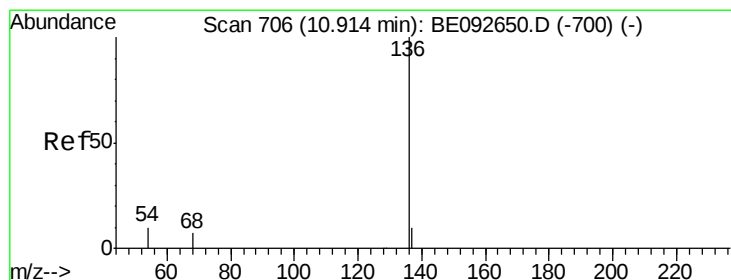
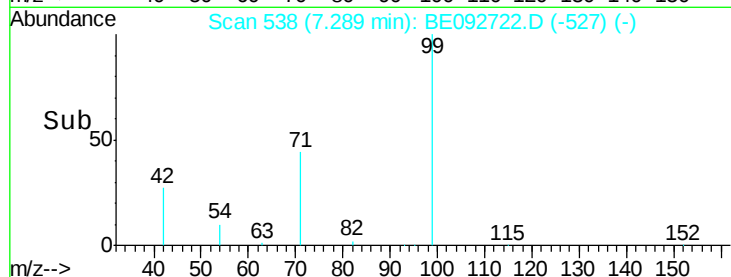
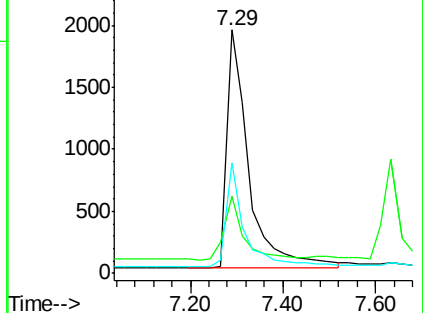
71 36.2 30.6 45.8



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



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.89 min Scan# 705

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Tgt Ion: 136 Resp: 43421

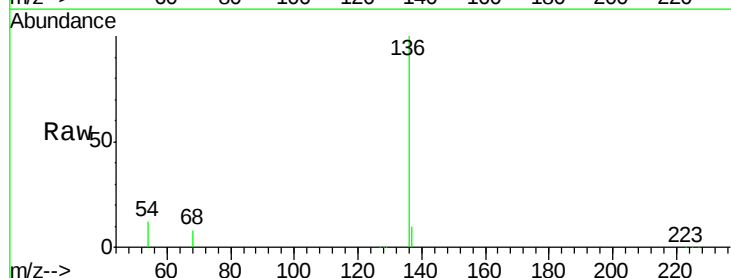
Ion Ratio Lower Upper

136 100

137 10.4 8.2 12.4

54 12.1 9.6 14.4

68 8.3 6.7 10.1

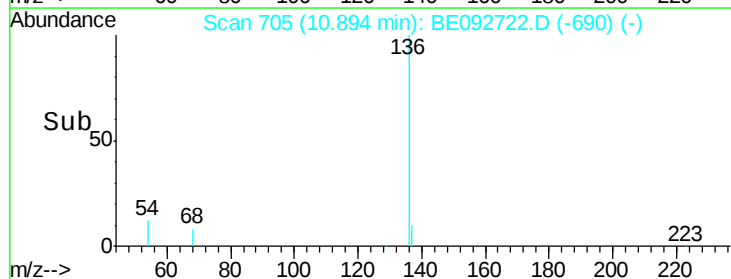
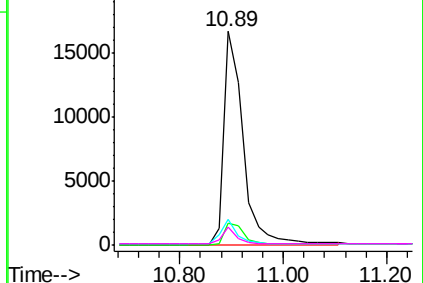


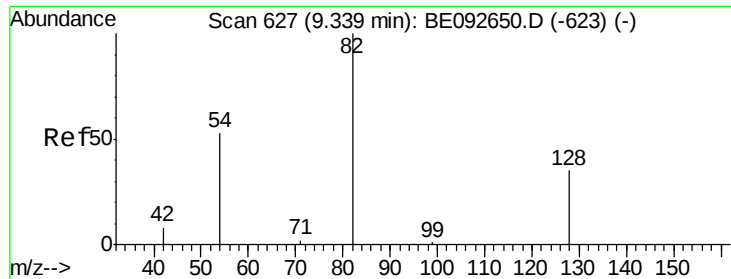
Abundance Ion 136.00 (135.70 to 136.70): E

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: 5.44 ng

RT: 9.29 min Scan# 625

Delta R.T. -0.05 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-170206

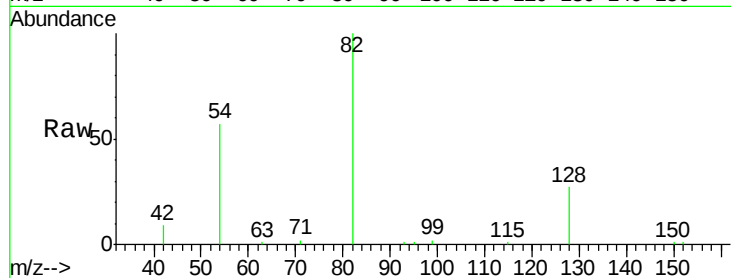
Tgt Ion: 82 Resp: 15322

Ion Ratio Lower Upper

82 100

128 26.5 39.0 58.4#

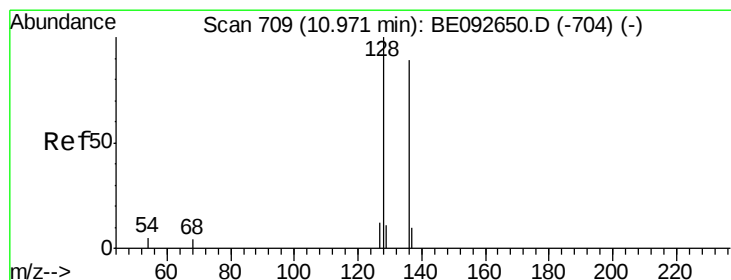
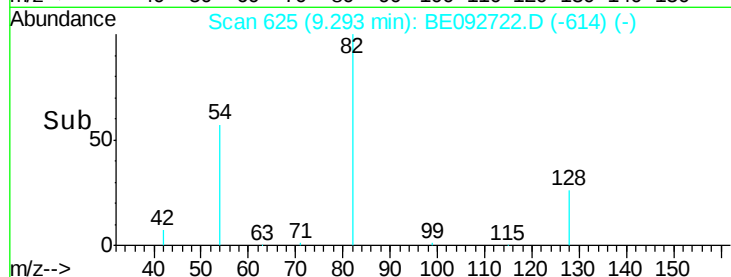
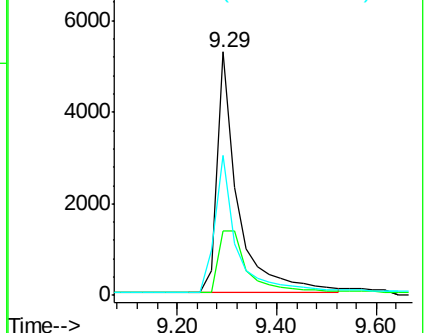
54 57.2 44.8 67.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.03 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

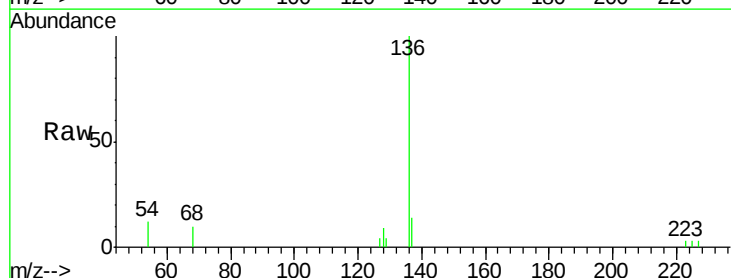
Tgt Ion: 128 Resp: 233

Ion Ratio Lower Upper

128 100

129 48.0 11.2 16.8#

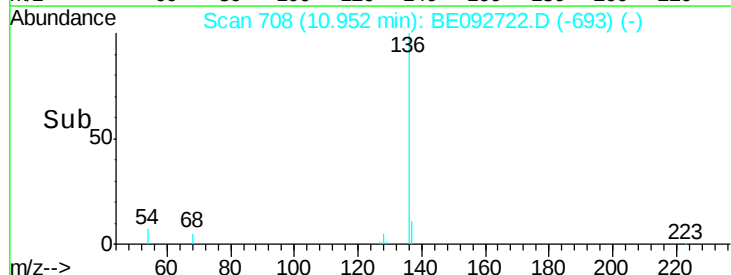
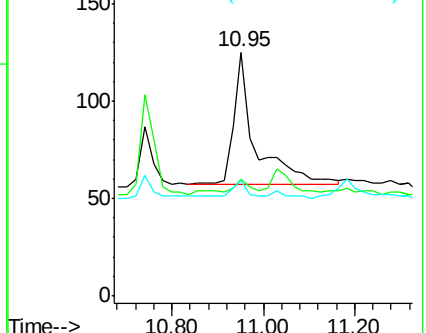
127 47.2 11.6 17.4#

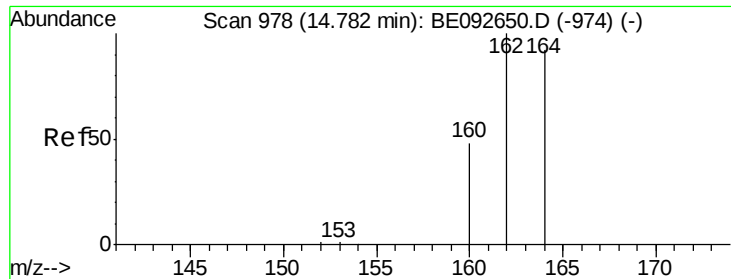


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.77 min Scan# 977

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

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ClientSampleId :

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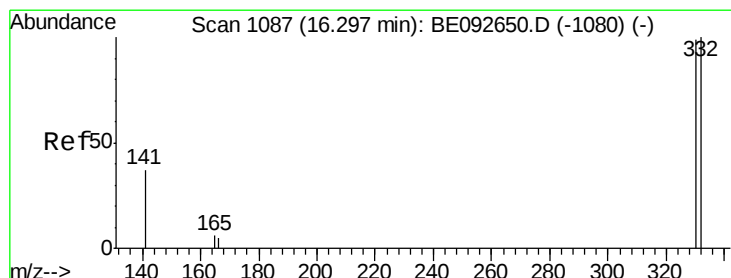
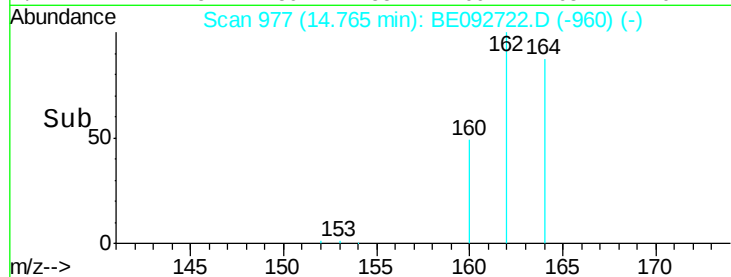
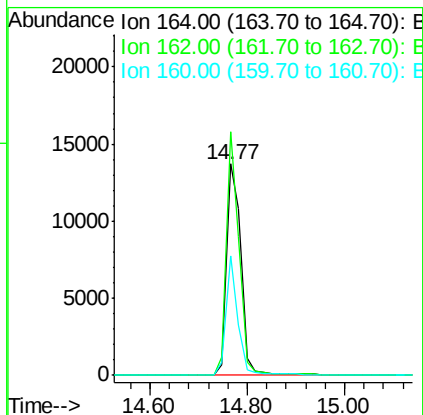
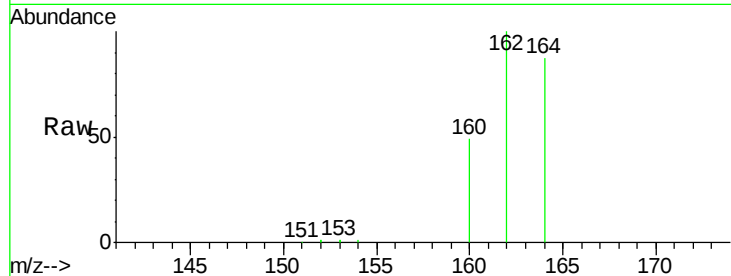
Tgt Ion:164 Resp: 27400

Ion Ratio Lower Upper

164 100

162 115.4 71.4 107.0#

160 56.8 27.4 41.2#



#13

2,4,6-Tribromophenol

Concen: 10.29 ng

RT: 16.26 min Scan# 1084

Delta R.T. -0.04 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

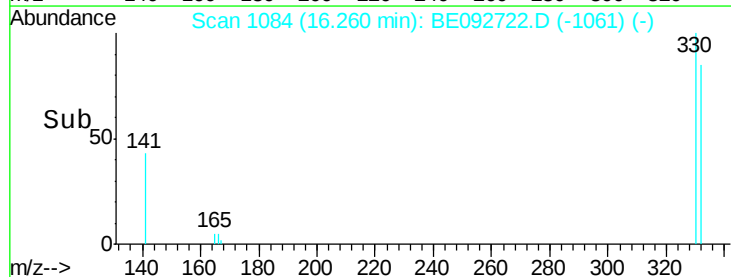
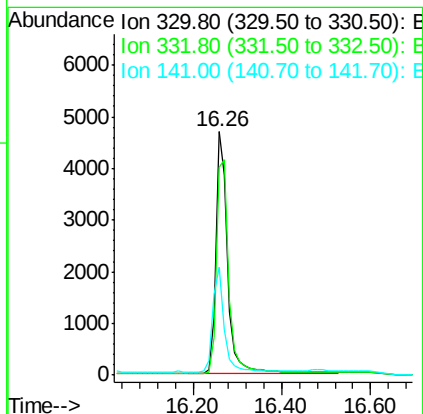
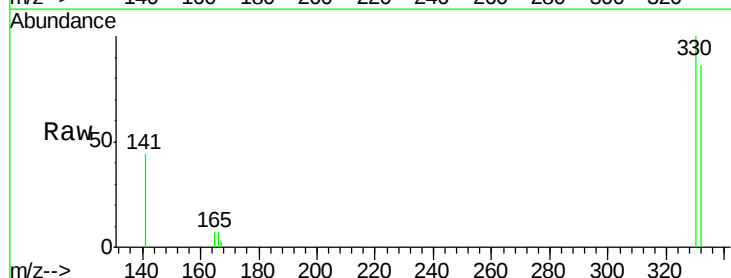
Tgt Ion:330 Resp: 8353

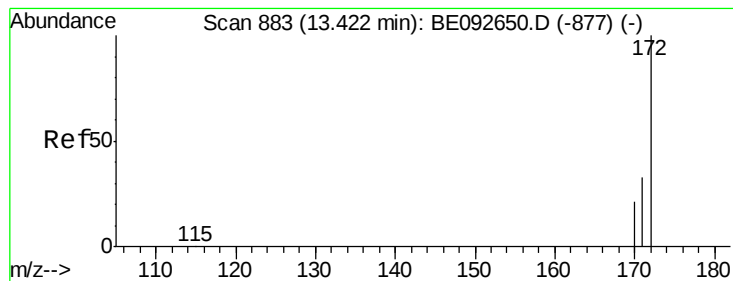
Ion Ratio Lower Upper

330 100

332 96.3 75.4 113.0

141 43.2 31.0 46.6





#14

2-Fluorobiphenyl

Concen: 5.51 ng

RT: 13.39 min Scan# 880

Delta R.T. -0.03 min

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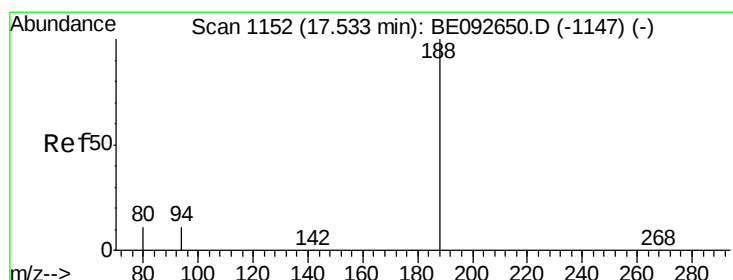
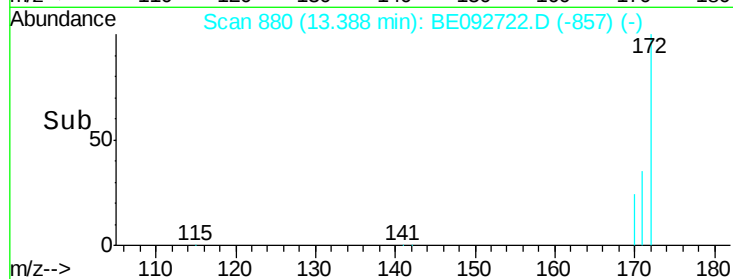
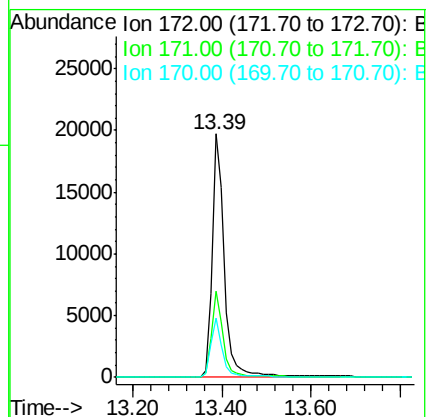
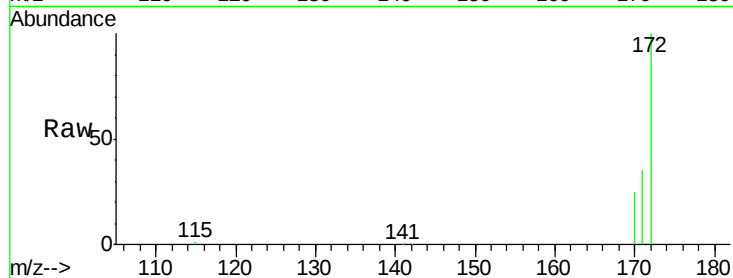
Tgt Ion:172 Resp: 37102

Ion Ratio Lower Upper

172 100

171 35.2 30.1 45.1

170 24.5 21.8 32.6



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.53 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

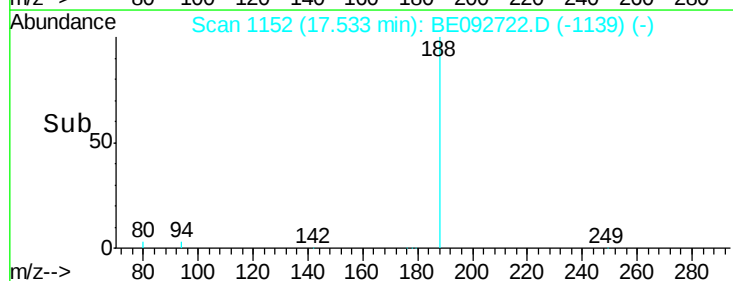
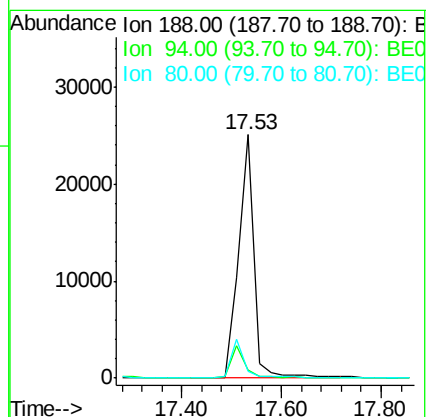
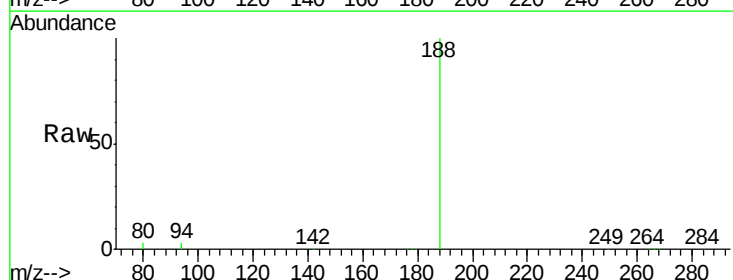
Tgt Ion:188 Resp: 52866

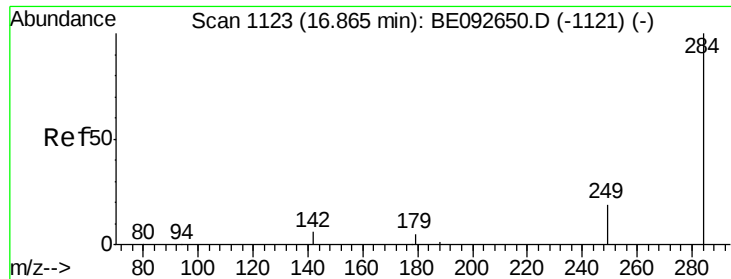
Ion Ratio Lower Upper

188 100

94 3.5 3.2 4.8

80 3.0 2.6 3.8





#19

Hexachlorobenzene

Concen: 0.19 ng

RT: 16.73 min Scan# 1117

Delta R.T. -0.14 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

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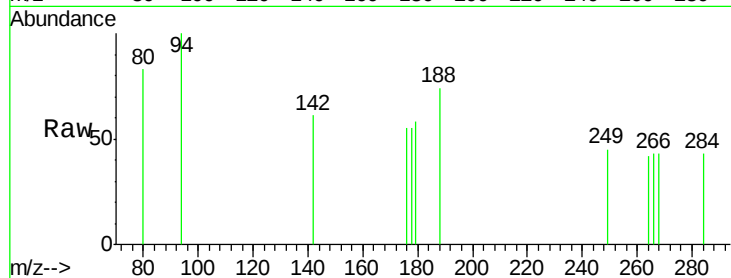
Tgt Ion:284 Resp: 482

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

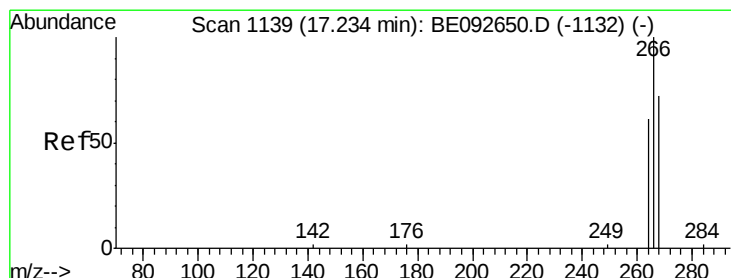
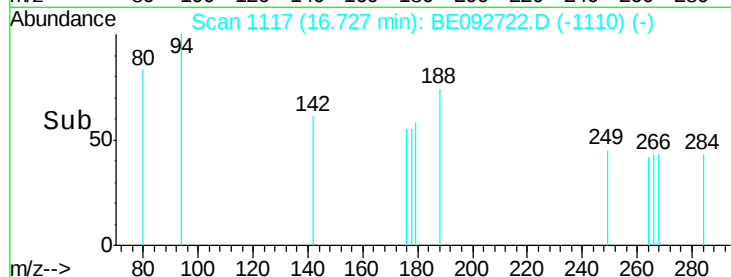
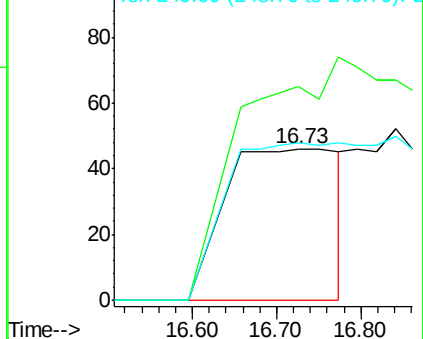
249 117.0 27.9 41.9#



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



#20

Pentachlorophenol

Concen: 0.05 ng

RT: 17.21 min Scan# 1138

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

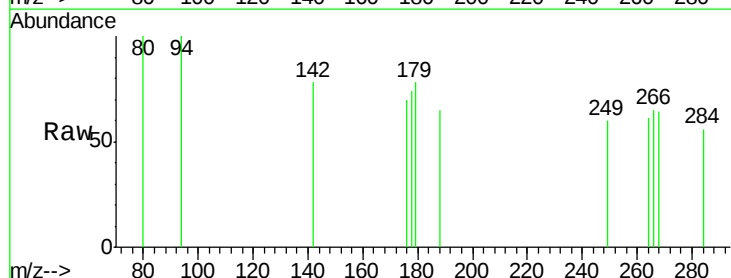
Tgt Ion:266 Resp: 26

Ion Ratio Lower Upper

266 100

268 98.1 62.5 93.7#

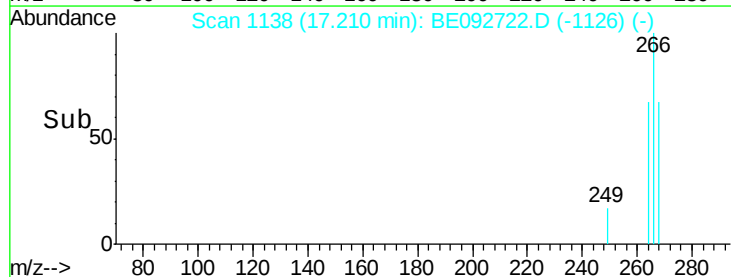
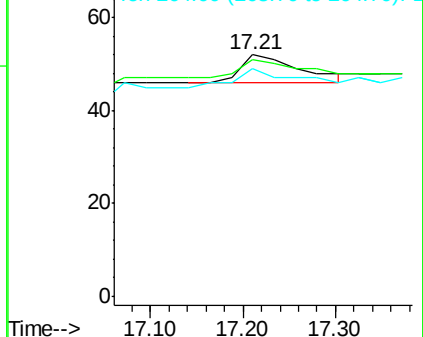
264 94.2 57.2 85.8#

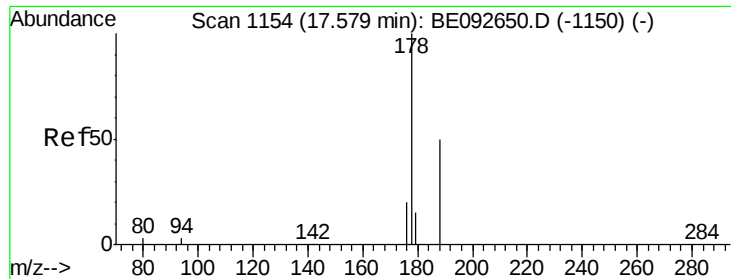


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#21

Phenanthrene

Concen: 0.06 ng

RT: 17.67 min Scan# 1158

Delta R.T. 0.09 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-170206

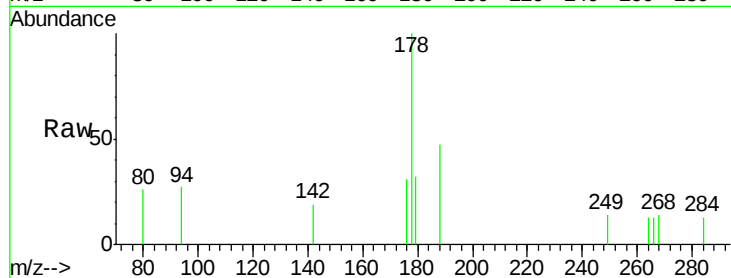
Tgt Ion:178 Resp: 675

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

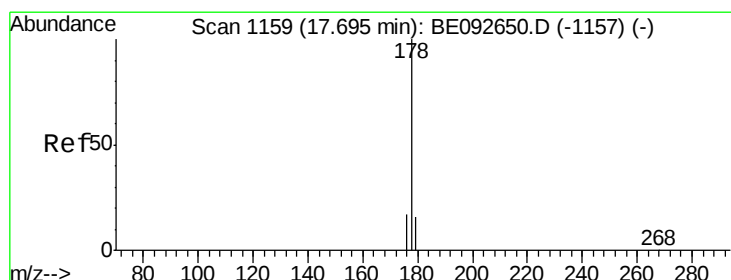
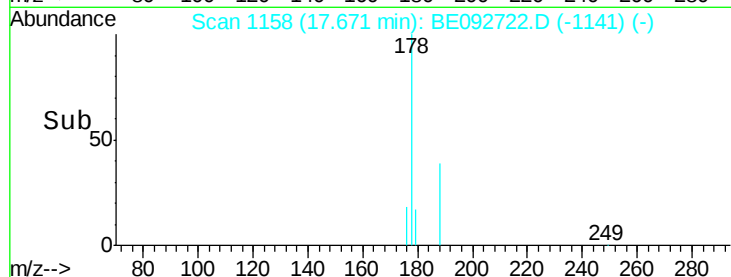
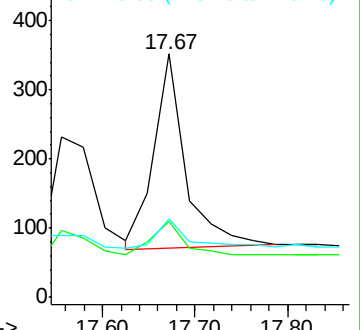
179 16.7 16.0 24.0



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



#22

Anthracene

Concen: 0.07 ng

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

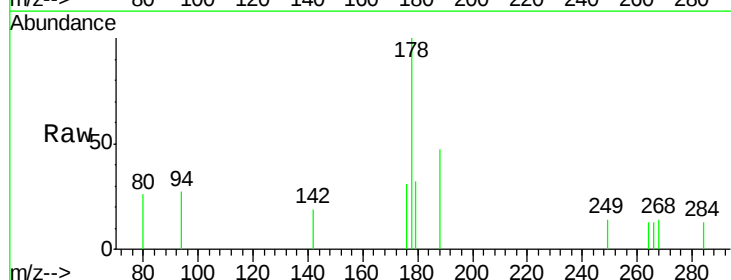
Tgt Ion:178 Resp: 771

Ion Ratio Lower Upper

178 100

176 16.1 15.0 22.4

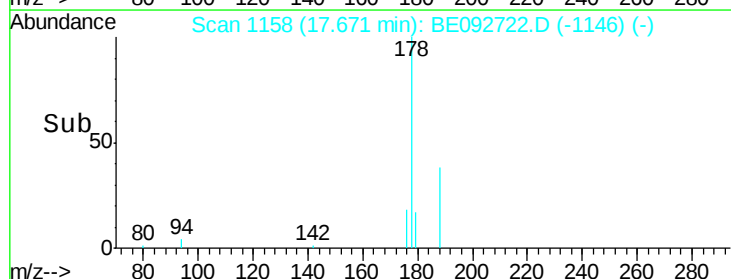
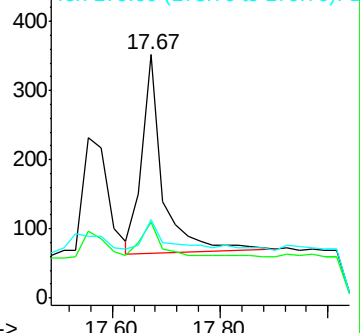
179 19.1 12.2 18.2#

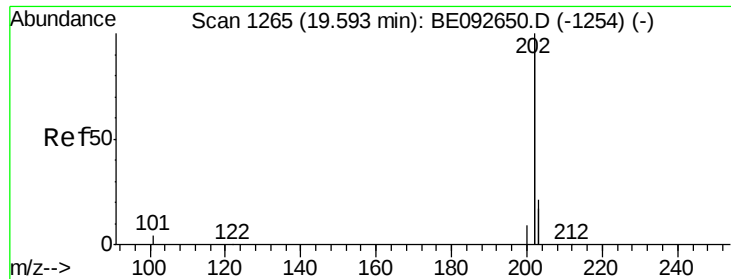


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

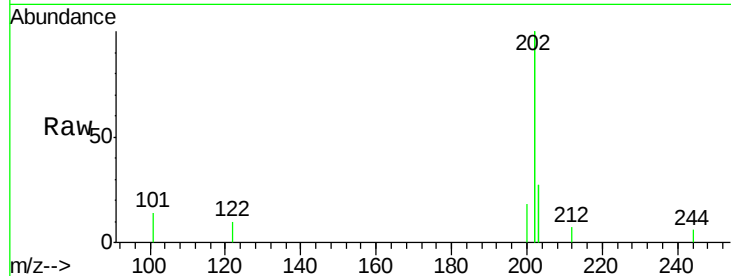




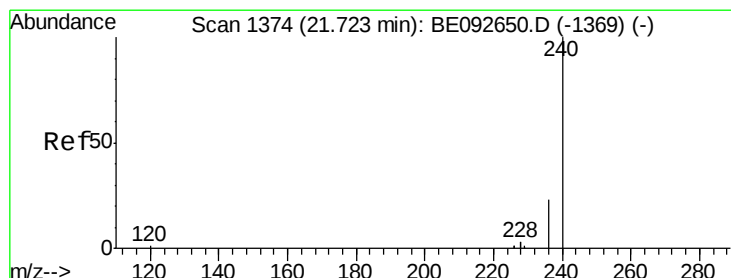
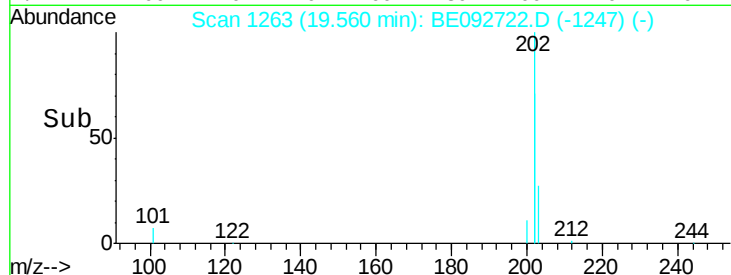
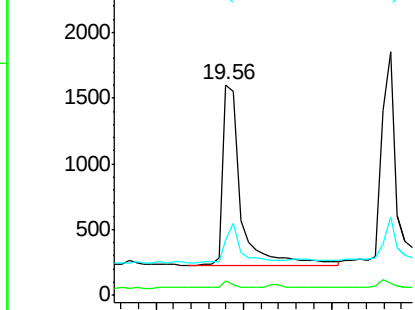
#23  
 Fluoranthene  
 Concen: 0.08 ng  
 RT: 19.56 min Scan# 1263  
 Delta R.T. -0.03 min  
 Lab File: BE092722.D  
 Acq: 10 Feb 2017 15:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 KY038PS027-170206

Tgt Ion: 202 Resp: 3971  
 Ion Ratio Lower Upper  
 202 100  
 101 2.7 2.2 3.4  
 203 18.1 13.7 20.5

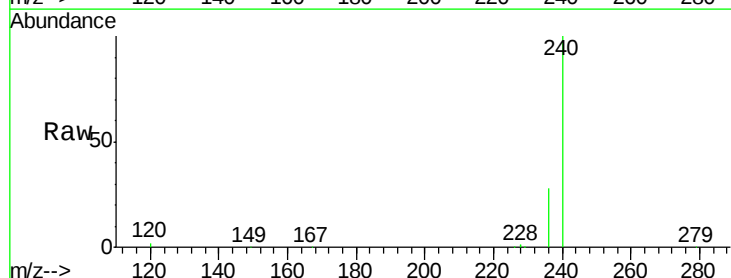


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

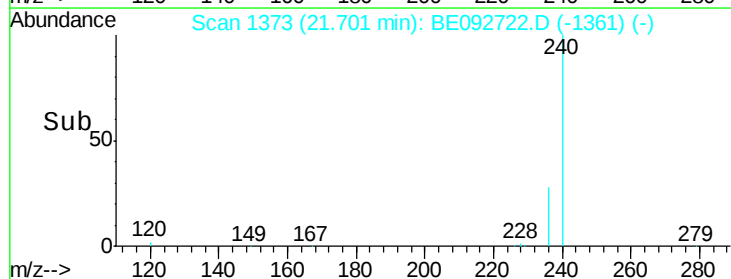
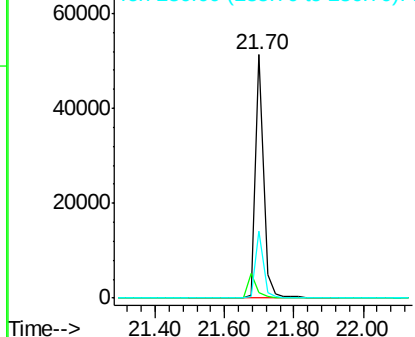


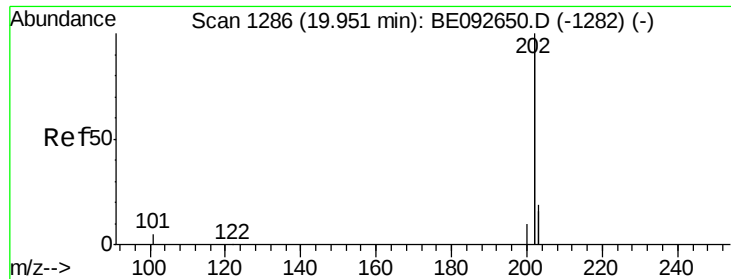
#24  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.70 min Scan# 1373  
 Delta R.T. -0.02 min  
 Lab File: BE092722.D  
 Acq: 10 Feb 2017 15:29

Tgt Ion: 240 Resp: 80270  
 Ion Ratio Lower Upper  
 240 100  
 120 2.5 2.6 4.0#  
 236 27.7 24.6 37.0



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





#25

Pyrene

Concen: 0.05 ng

RT: 19.93 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-170206

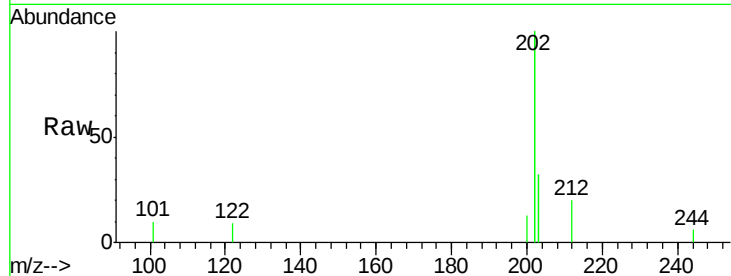
Tgt Ion:202 Resp: 3740

Ion Ratio Lower Upper

202 100

200 5.2 4.2 6.4

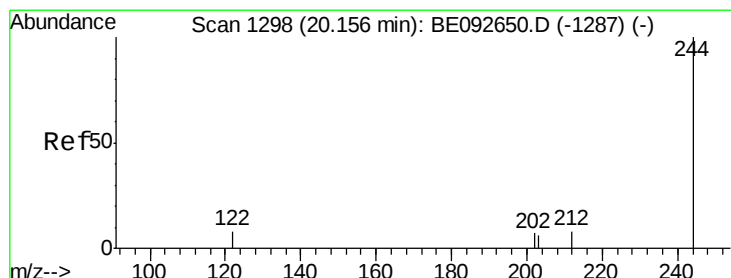
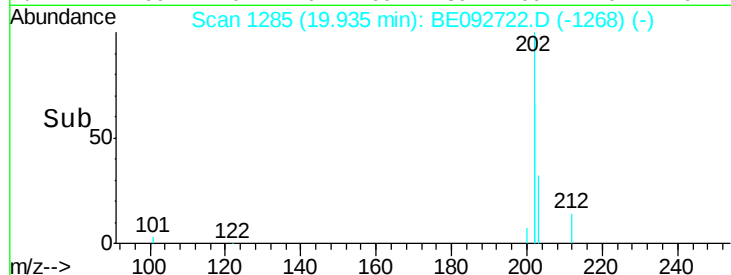
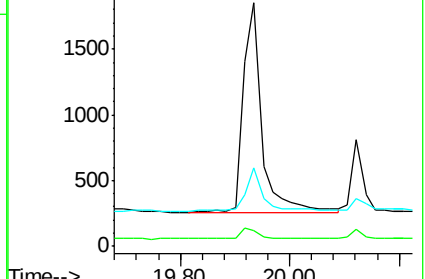
203 19.0 13.9 20.9



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



#26

Terphenyl-d14

Concen: 4.50 ng

RT: 20.14 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

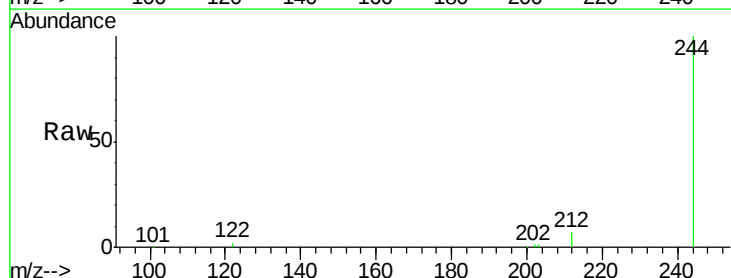
Tgt Ion:244 Resp: 51091

Ion Ratio Lower Upper

244 100

212 7.1 6.7 10.1

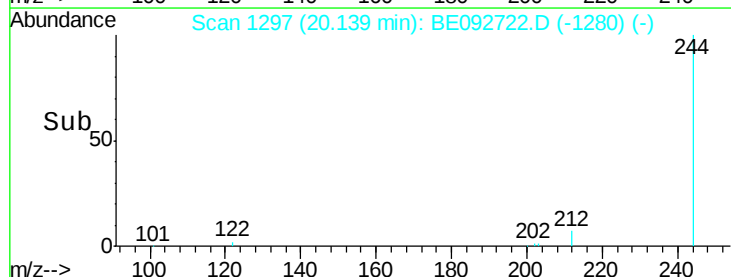
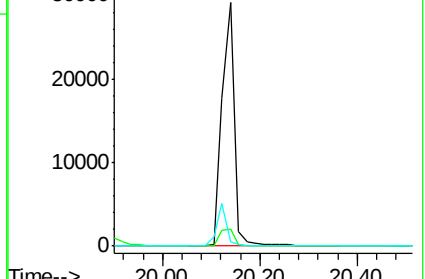
122 1.9 3.6 5.4#

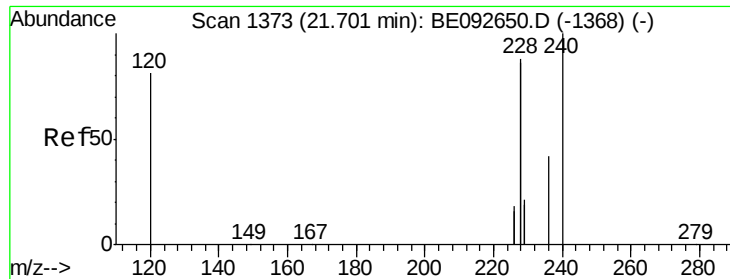


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#27

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.68 min Scan# 1372

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-170206

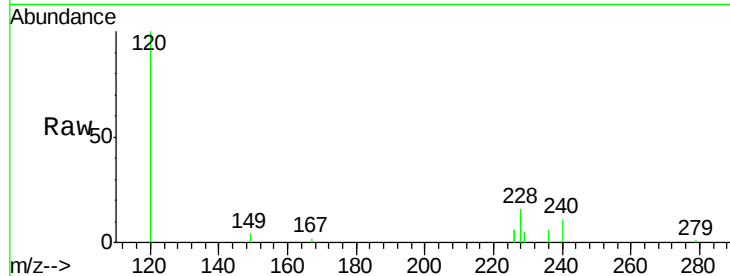
Tgt Ion:228 Resp: 6184

Ion Ratio Lower Upper

228 100

226 38.7 23.6 35.4#

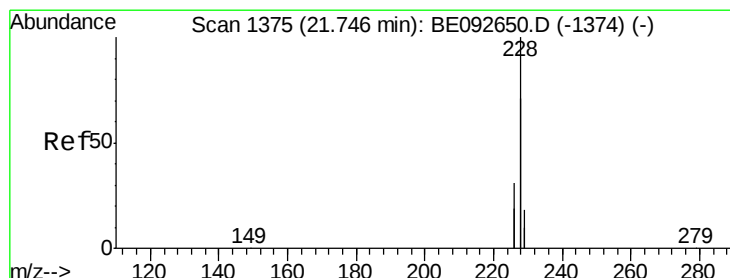
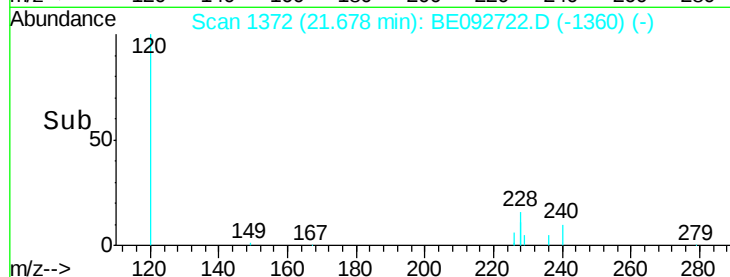
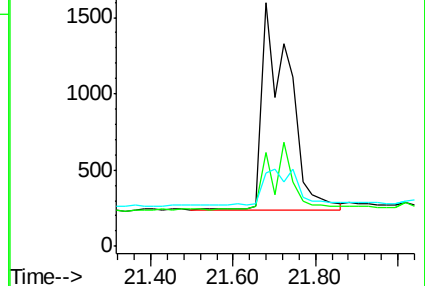
229 30.2 13.3 19.9#



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



#28

Chrysene

Concen: 0.07 ng

RT: 21.68 min Scan# 1372

Delta R.T. -0.07 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

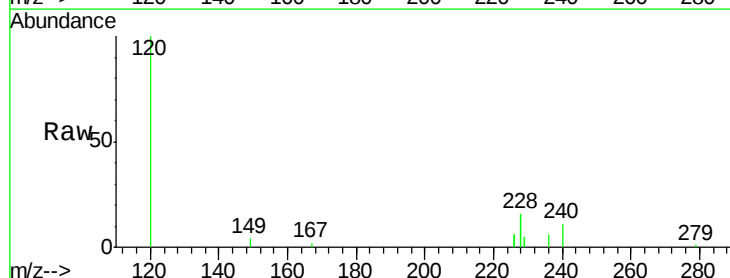
Tgt Ion:228 Resp: 6355

Ion Ratio Lower Upper

228 100

226 38.7 36.3 54.5

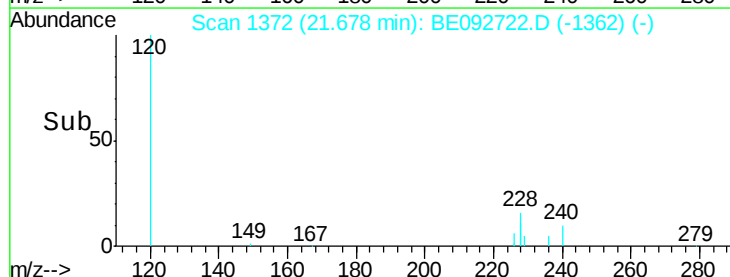
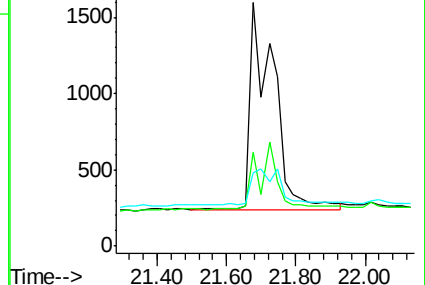
229 30.2 10.6 16.0#

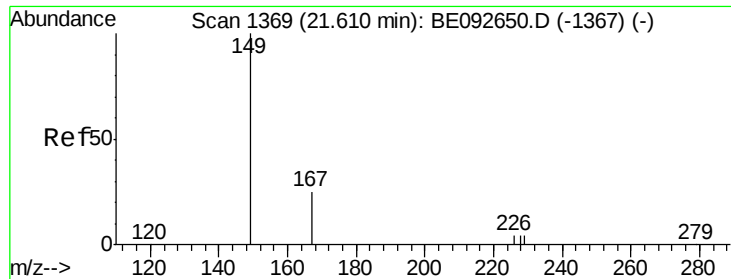


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.34 ng

RT: 21.59 min Scan# 1368

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-170206

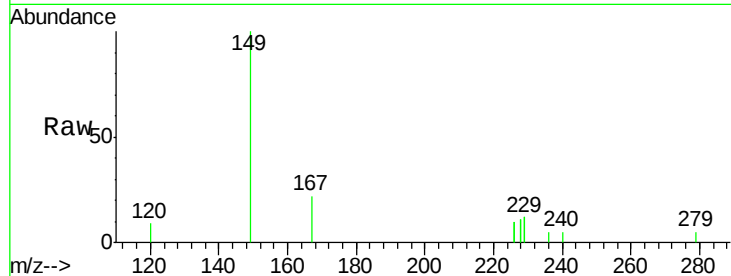
Tgt Ion:149 Resp: 2219

Ion Ratio Lower Upper

149 100

167 0.0 16.0 24.0#

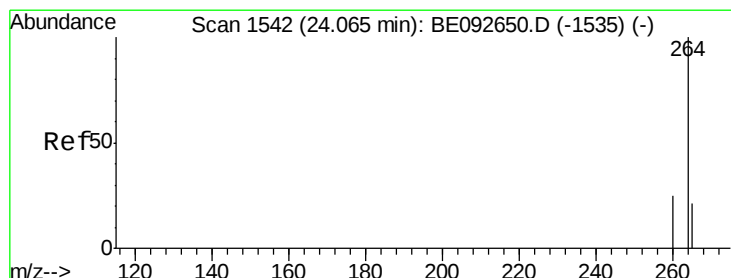
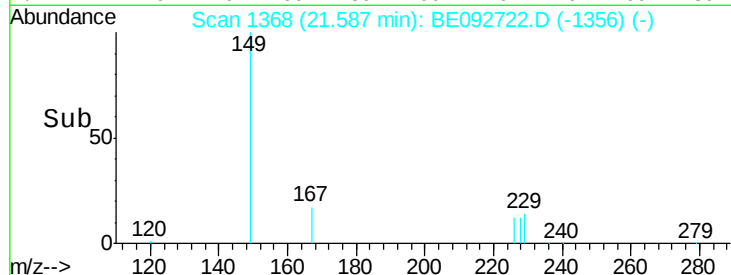
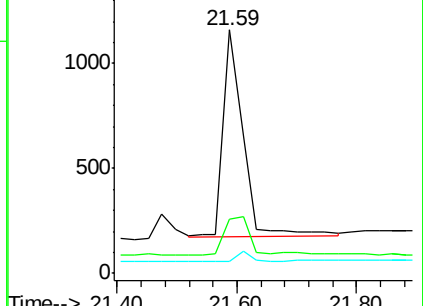
279 0.0 16.0 24.0#



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



#31

Perylene-d12

Concen: 5.00 ng

RT: 24.04 min Scan# 1540

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

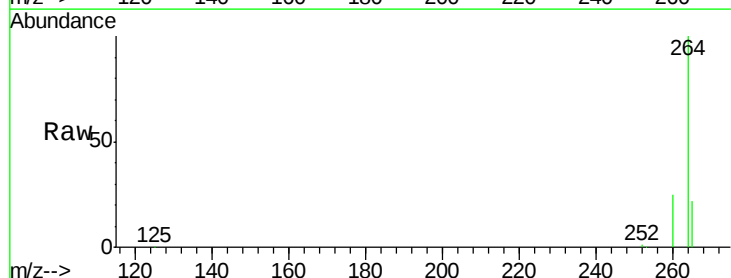
Tgt Ion:264 Resp: 72275

Ion Ratio Lower Upper

264 100

260 24.6 20.1 30.1

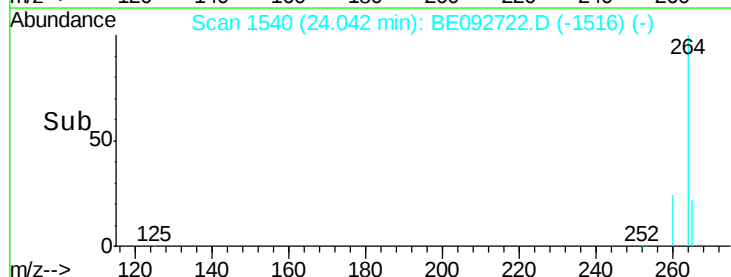
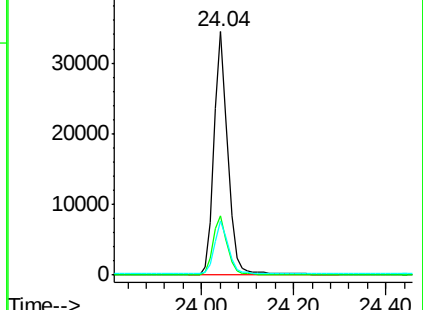
265 22.2 17.9 26.9

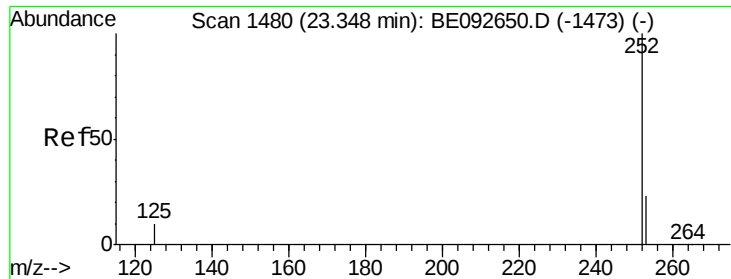


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#32

Benzo(b)fluoranthene

Concen: 0.02 ng

RT: 23.32 min Scan# 1478

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

Instrument :

BNA\_E

ClientSampleId :

KY038PS027-170206

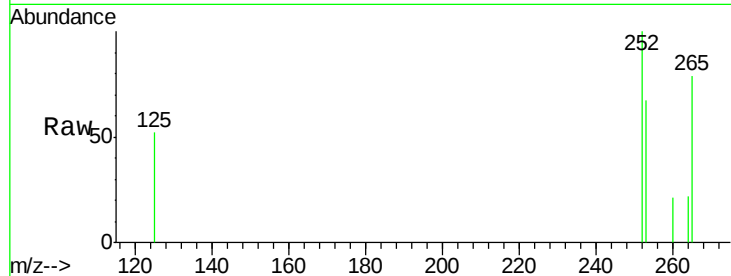
Tgt Ion:252 Resp: 371

Ion Ratio Lower Upper

252 100

253 66.7 18.7 28.1#

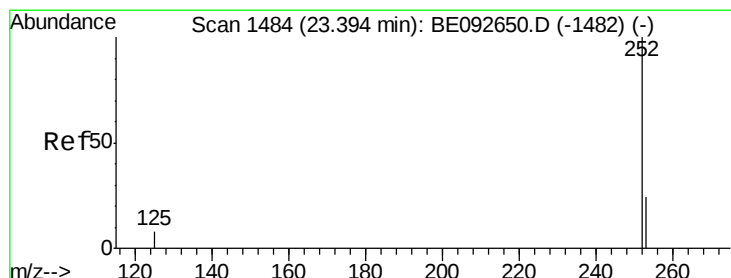
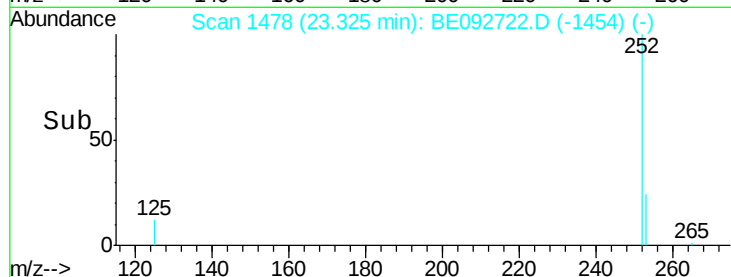
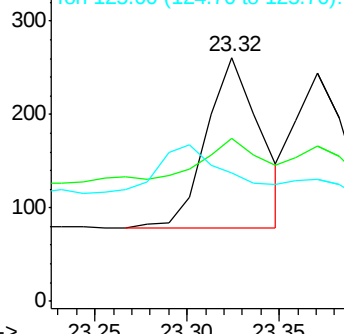
125 52.5 10.5 15.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#33

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 23.37 min Scan# 1482

Delta R.T. -0.02 min

Lab File: BE092722.D

Acq: 10 Feb 2017 15:29

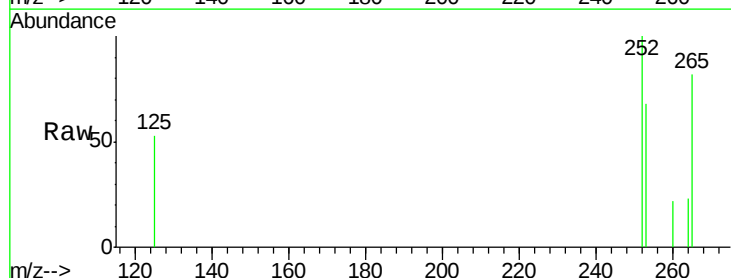
Tgt Ion:252 Resp: 359

Ion Ratio Lower Upper

252 100

253 67.8 20.3 30.5#

125 53.1 9.6 14.4#



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

