

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE051916\  
 Data File : BE091829.D  
 Acq On : 20 May 2016 2:58  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: May 20 04:52:43 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE051916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 19 15:36:49 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.78  | 152  | 21449    | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.57 | 136  | 107623   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.40 | 164  | 72269    | 5.00 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.14 | 188  | 211746   | 5.00 | ng    | -0.01    |
| 26) Chrysene-d12          | 21.29 | 240  | 255122   | 5.00 | ng    | -0.02    |
| 35) Perylene-d12          | 23.73 | 264  | 230938   | 5.00 | ng    | -0.02    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.39  | 112 | 2572  | 0.46 | ng | 0.00  |
| 5) Phenol-d6                | 6.97  | 99  | 3625  | 0.46 | ng | 0.02  |
| 8) Nitrobenzene-d5          | 8.95  | 82  | 2969  | 0.42 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330 | 1222  | 0.44 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 13.02 | 172 | 7914  | 0.39 | ng | -0.01 |
| 29) Terphenyl-d14           | 19.74 | 244 | 15078 | 0.42 | ng | -0.02 |

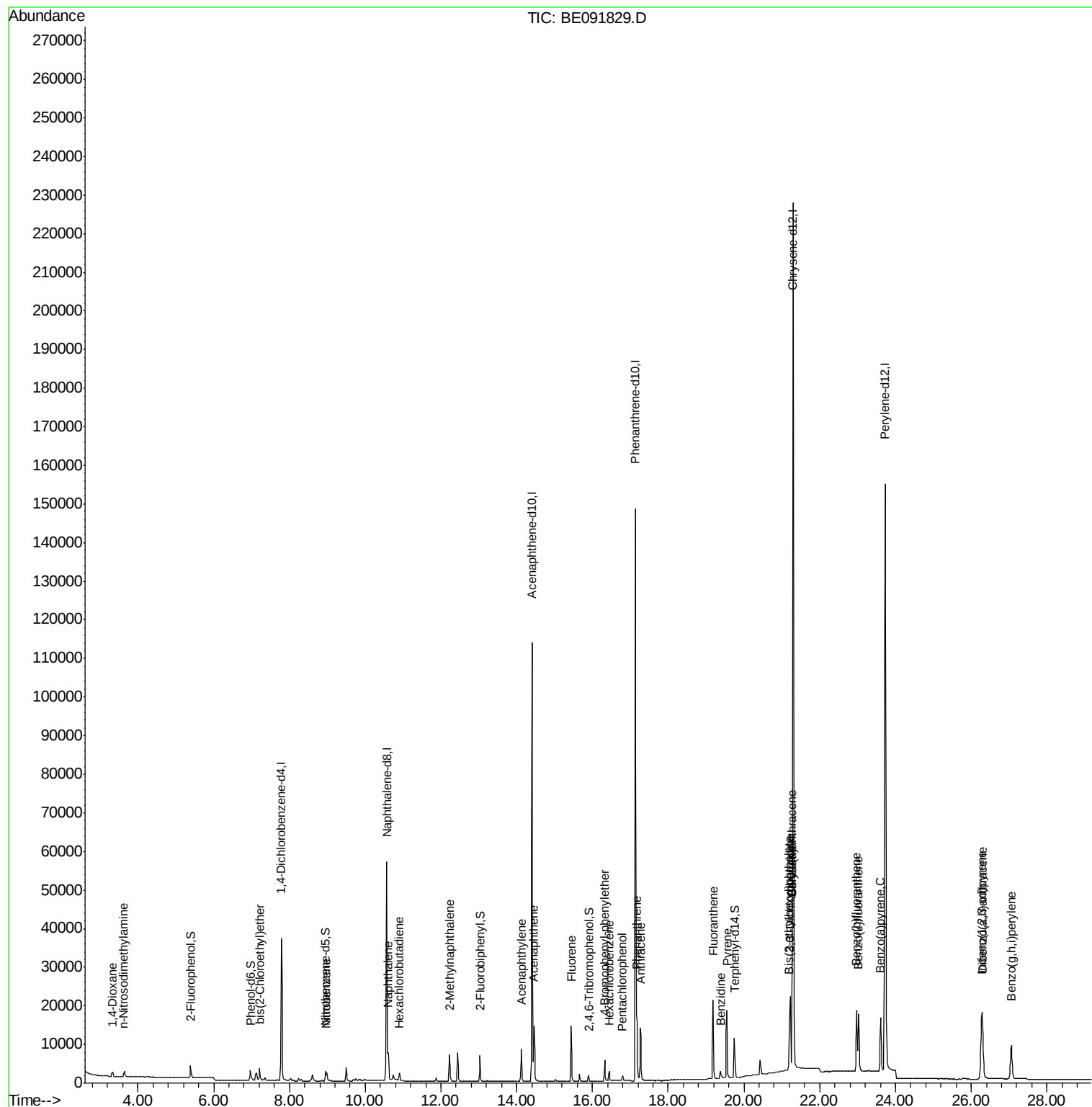
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.33  | 88  | 1186  | 0.48   | ng | 91   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 1342  | 0.39   | ng | # 96 |
| 6) bis(2-Chloroethyl)ether     | 7.21  | 93  | 2476  | 0.39   | ng | # 80 |
| 9) Nitrobenzene                | 8.98  | 77  | 3007  | 0.41   | ng | # 95 |
| 10) Naphthalene                | 10.61 | 128 | 9156  | 0.38   | ng | 99   |
| 11) Hexachlorobutadiene        | 10.90 | 225 | 1906  | 0.54   | ng | # 81 |
| 12) 2-Methylnaphthalene        | 12.23 | 142 | 6116  | 0.38   | ng | 96   |
| 16) Acenaphthylene             | 14.12 | 152 | 13058 | 0.41   | ng | # 82 |
| 17) Acenaphthene               | 14.46 | 154 | 7610  | 0.39   | ng | 92   |
| 18) Fluorene                   | 15.44 | 166 | 9804  | 0.39   | ng | 98   |
| 20) 4-Bromophenyl-phenylether  | 16.33 | 248 | 2923  | 0.37   | ng | 93   |
| 21) Hexachlorobenzene          | 16.45 | 284 | 2983  | 0.36   | ng | 98   |
| 22) Pentachlorophenol          | 16.79 | 266 | 1186  | 0.35   | ng | 92   |
| 23) Phenanthrene               | 17.17 | 178 | 18543 | 0.35   | ng | 97   |
| 24) Anthracene                 | 17.26 | 178 | 17449 | 0.38   | ng | 99   |
| 25) Fluoranthene               | 19.19 | 202 | 22739 | 0.40   | ng | # 96 |
| 27) Benzidine                  | 19.38 | 184 | 4307  | 0.28   | ng | 92   |
| 28) Pyrene                     | 19.55 | 202 | 23386 | 0.42   | ng | 99   |
| 30) Benzo(a)anthracene         | 21.27 | 228 | 46775 | 0.76   | ng | 93   |
| 31) 3,3'-Dichlorobenzidine     | 21.22 | 252 | 19970 | 0.51   | ng | # 91 |
| 32) Chrysene                   | 21.27 | 228 | 46864 | 0.92   | ng | 97   |
| 33) Bis(2-ethylhexyl)phthalate | 21.20 | 149 | 13781 | 0.62   | ng | # 80 |
| 34) Indeno(1,2,3-cd)pyrene     | 26.27 | 276 | 25927 | 0.41   | ng | 96   |
| 36) Benzo(b)fluoranthene       | 22.97 | 252 | 22621 | 0.39   | ng | 94   |
| 37) Benzo(k)fluoranthene       | 23.02 | 252 | 23708 | 0.40   | ng | 95   |
| 38) Benzo(a)pyrene             | 23.61 | 252 | 22288 | 0.40   | ng | 94   |
| 39) Dibenzo(a,h)anthracene     | 26.29 | 278 | 21610 | 0.40   | ng | 97   |
| 40) Benzo(g,h,i)perylene       | 27.06 | 276 | 22118 | 0.40   | ng | 97   |

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

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QLast Update : Thu May 19 15:36:49 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.78 min Scan# 299

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

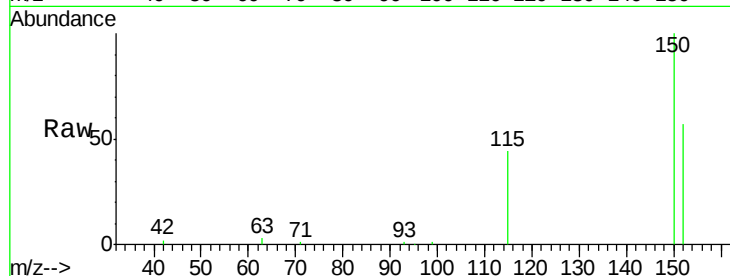
Tgt Ion: 152 Resp: 21449

Ion Ratio Lower Upper

152 100

150 176.7 122.6 183.8

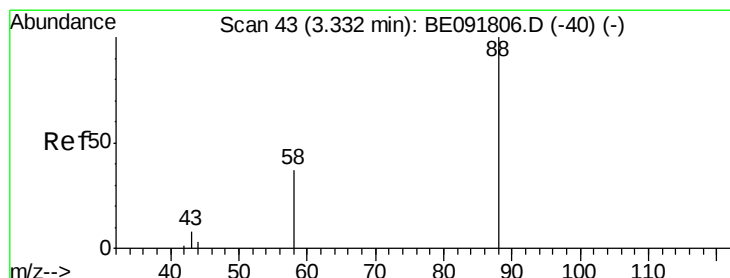
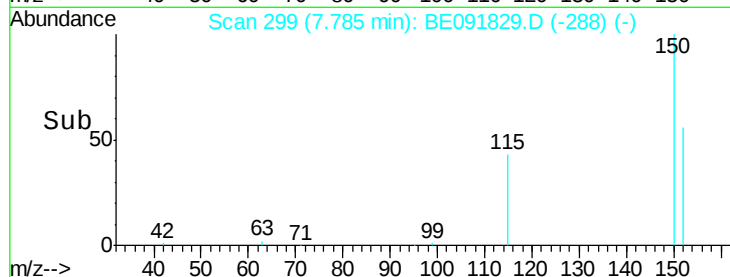
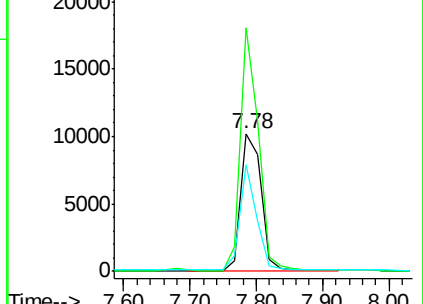
115 77.1 52.8 79.2



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: 0.48 ng

RT: 3.33 min Scan# 43

Delta R.T. 0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

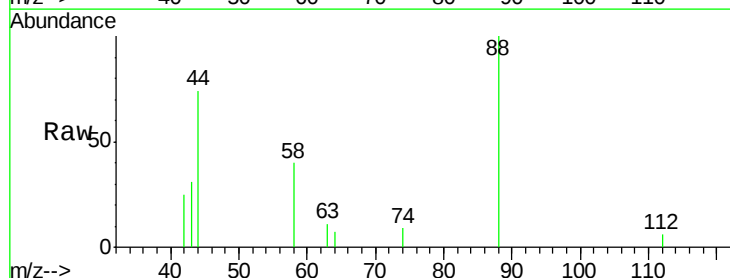
Tgt Ion: 88 Resp: 1186

Ion Ratio Lower Upper

88 100

58 72.9 65.8 98.6

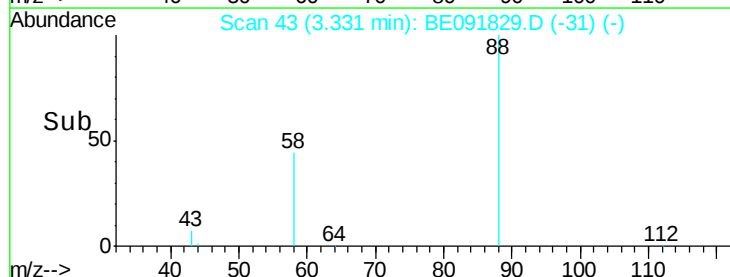
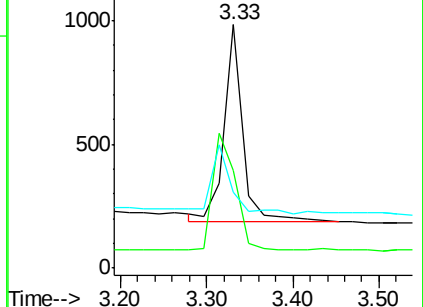
43 35.2 25.3 37.9

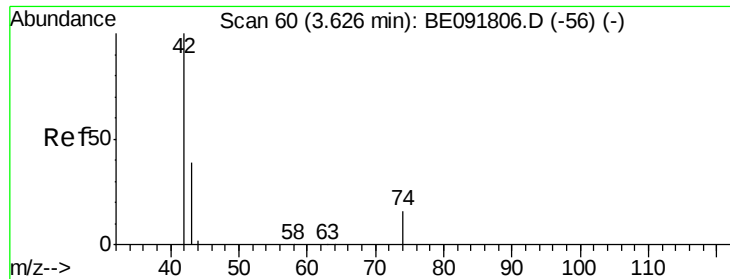


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.39 ng

RT: 3.63 min Scan# 60

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

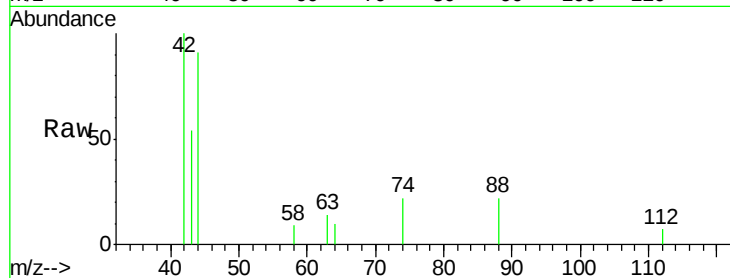
Tgt Ion: 42 Resp: 1342

Ion Ratio Lower Upper

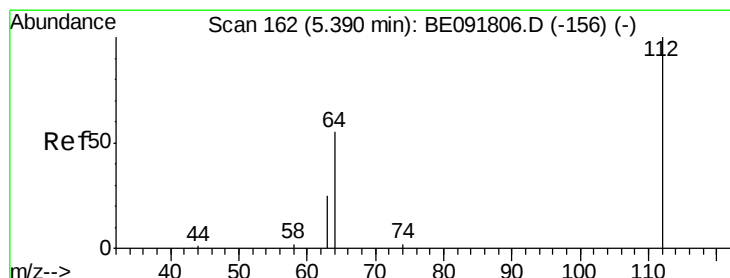
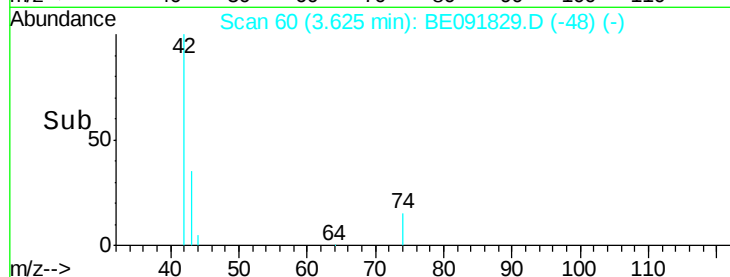
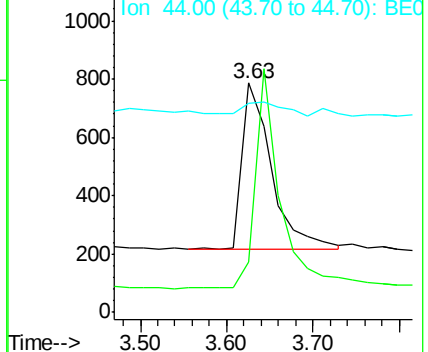
42 100

74 113.6 87.9 131.9

44 12.2 6.6 9.8#



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: 0.46 ng

RT: 5.39 min Scan# 162

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

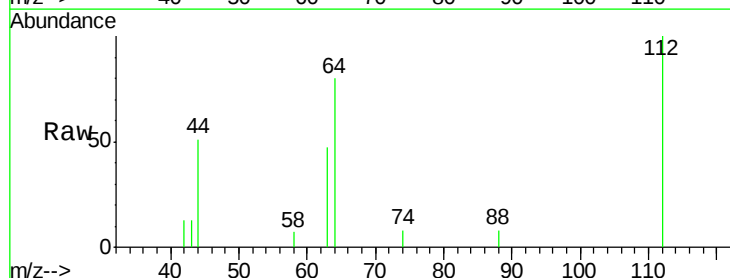
Tgt Ion: 112 Resp: 2572

Ion Ratio Lower Upper

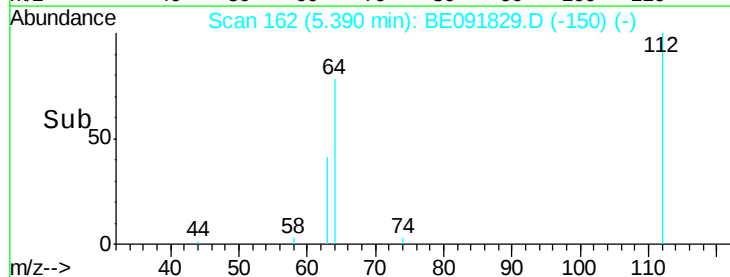
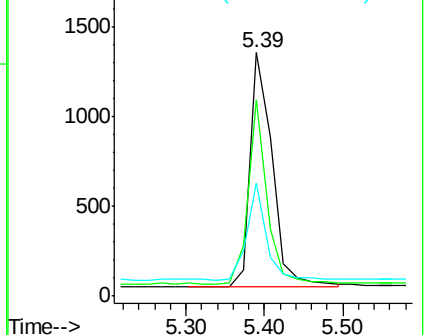
112 100

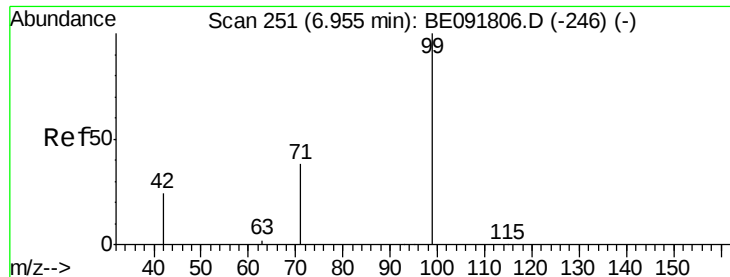
64 67.4 30.9 46.3#

63 36.4 16.7 25.1#



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: 0.46 ng

RT: 6.97 min Scan# 252

Delta R.T. 0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

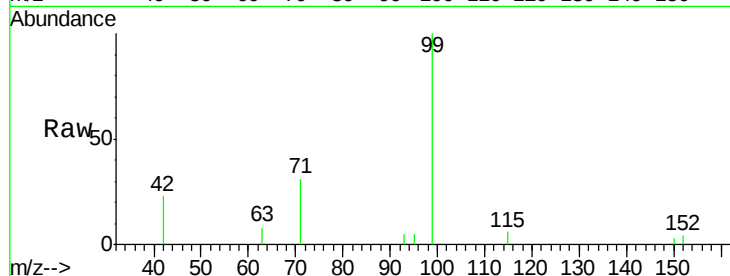
Tgt Ion: 99 Resp: 3625

Ion Ratio Lower Upper

99 100

42 25.0 16.2 24.2#

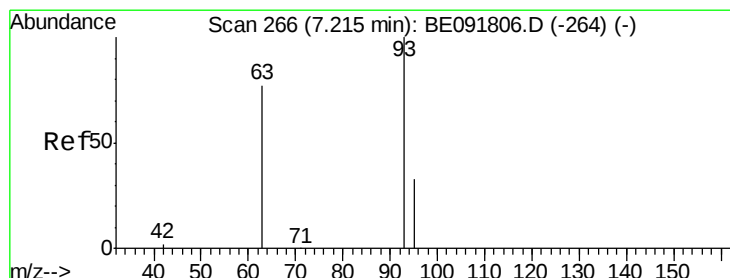
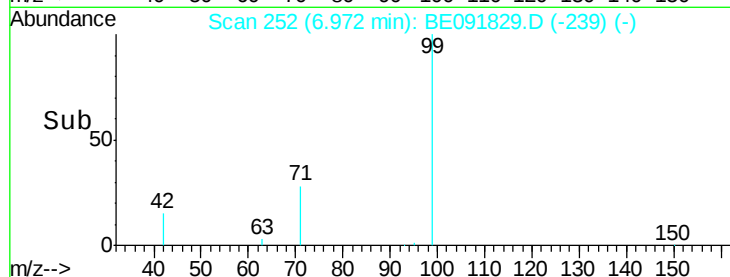
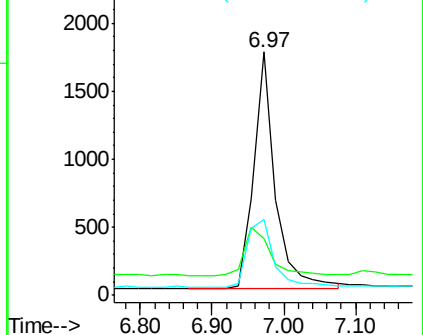
71 35.5 29.0 43.4



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



#6

bis(2-Chloroethyl)ether

Concen: 0.39 ng

RT: 7.21 min Scan# 266

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

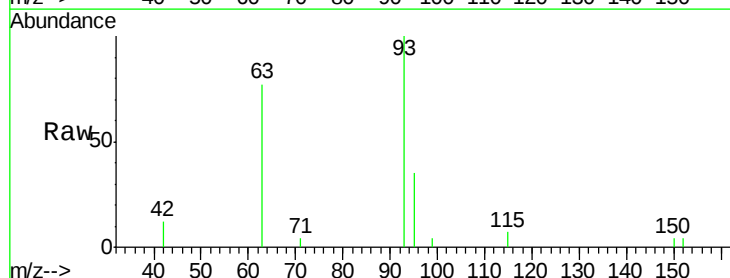
Tgt Ion: 93 Resp: 2476

Ion Ratio Lower Upper

93 100

63 81.3 49.5 74.3#

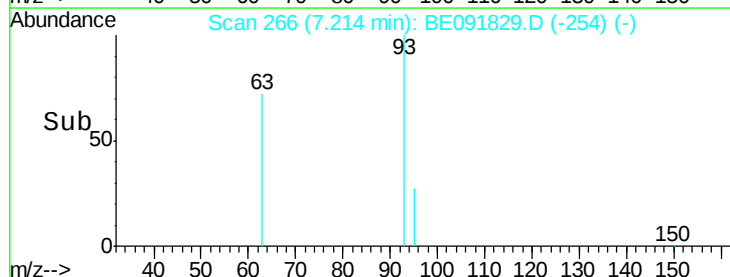
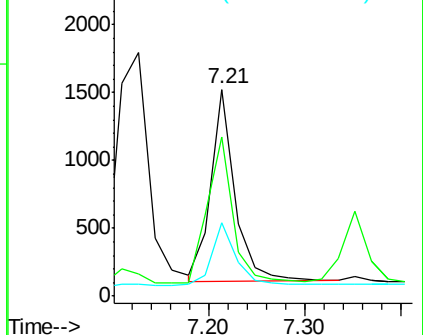
95 32.4 22.2 33.4

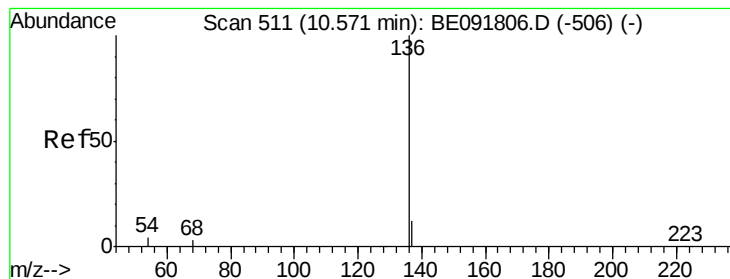


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 107623

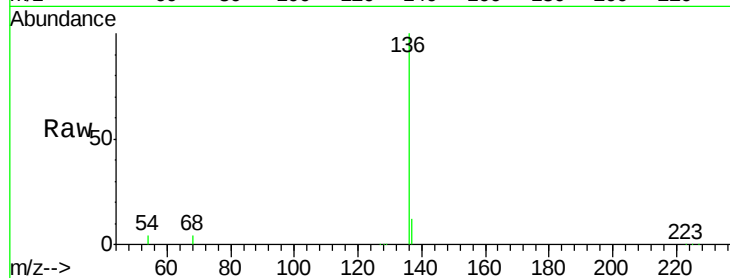
Ion Ratio Lower Upper

136 100

137 12.2 8.9 13.3

54 4.1 8.2 12.4#

68 3.5 6.2 9.4#

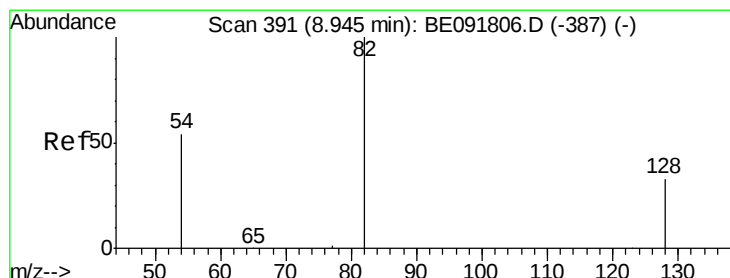
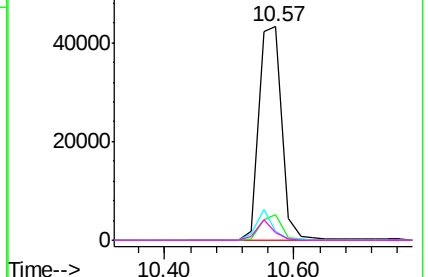
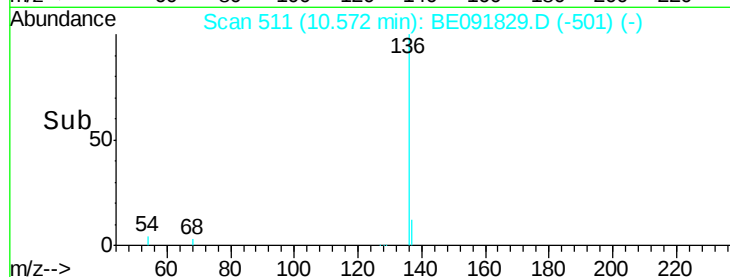


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.42 ng

RT: 8.95 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

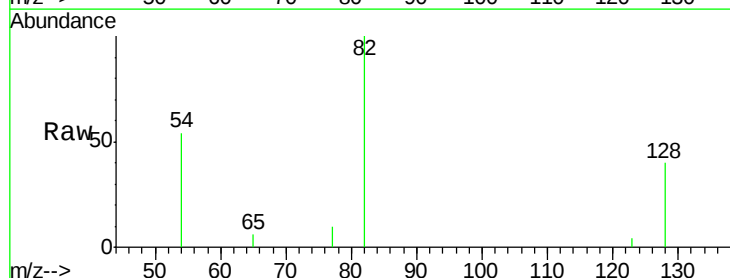
Tgt Ion: 82 Resp: 2969

Ion Ratio Lower Upper

82 100

128 40.1 25.4 38.0#

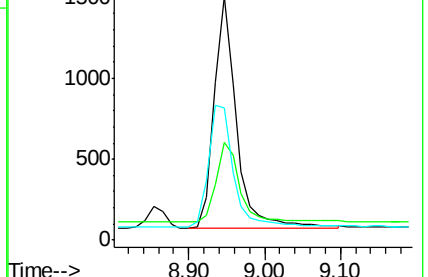
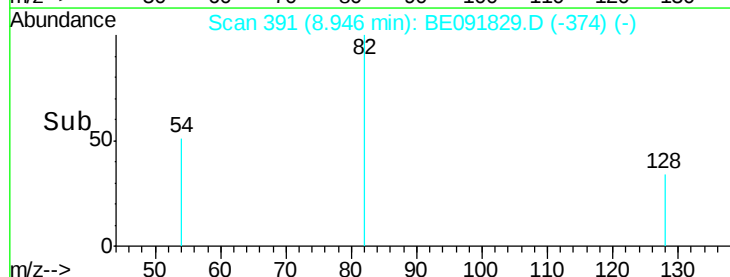
54 54.2 48.4 72.6

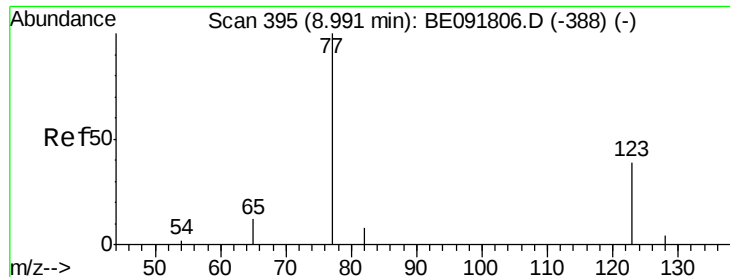


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.41 ng

RT: 8.98 min Scan# 394

Delta R.T. -0.01 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

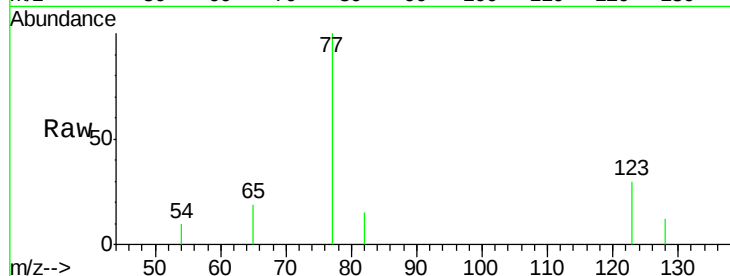
Tgt Ion: 77 Resp: 3007

Ion Ratio Lower Upper

77 100

123 35.8 26.9 40.3

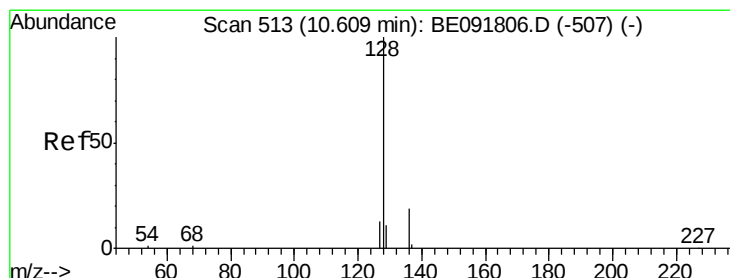
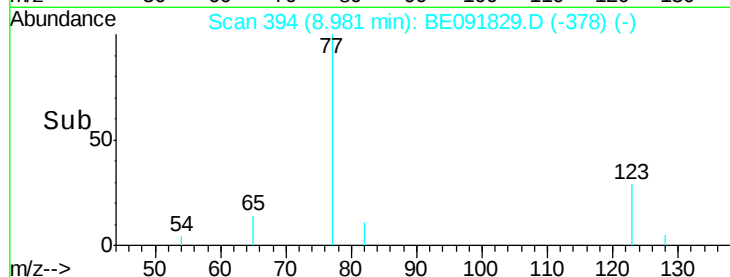
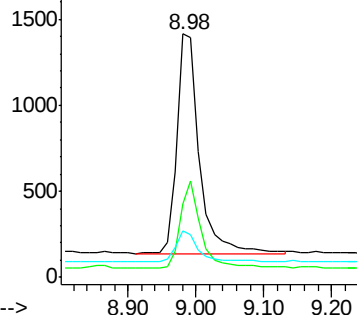
65 14.3 9.4 14.2#



Abundance Ion 77.00 (76.70 to 77.70): BE091806.D (-388) (-)

Ion 123.00 (122.70 to 123.70): BE091806.D (-388) (-)

Ion 65.00 (64.70 to 65.70): BE091806.D (-388) (-)



#10

Naphthalene

Concen: 0.38 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

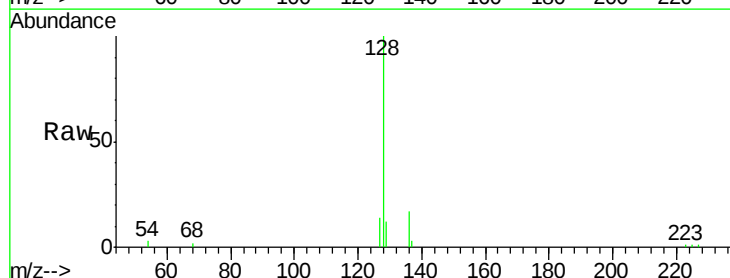
Tgt Ion: 128 Resp: 9156

Ion Ratio Lower Upper

128 100

129 12.4 9.3 13.9

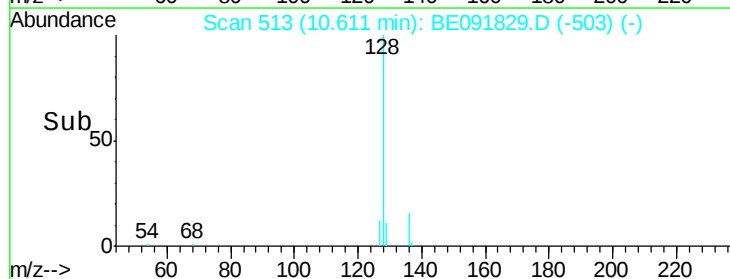
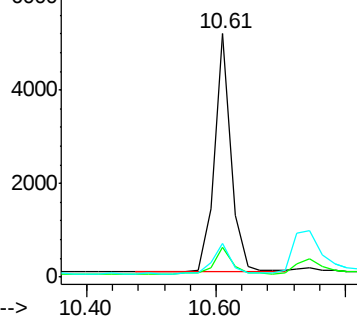
127 13.6 10.7 16.1

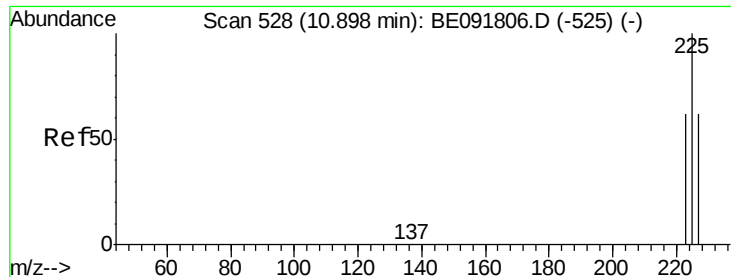


Abundance Ion 128.00 (127.70 to 128.70): BE091806.D (-507) (-)

Ion 129.00 (128.70 to 129.70): BE091806.D (-507) (-)

Ion 127.00 (126.70 to 127.70): BE091806.D (-507) (-)

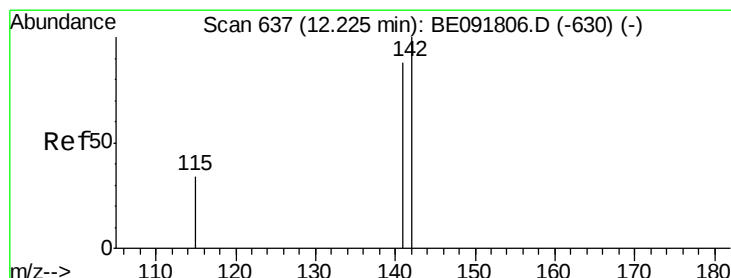
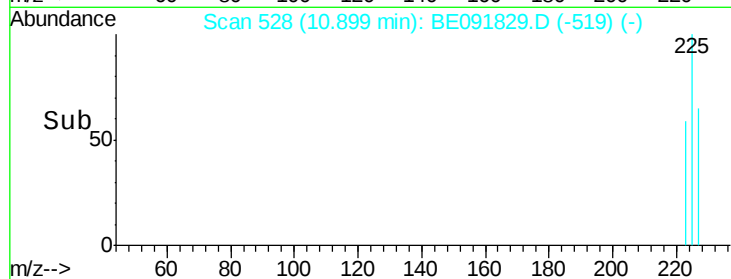
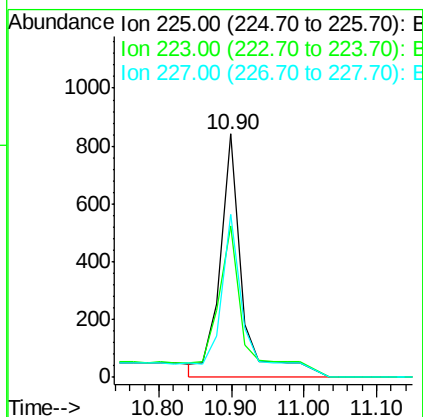
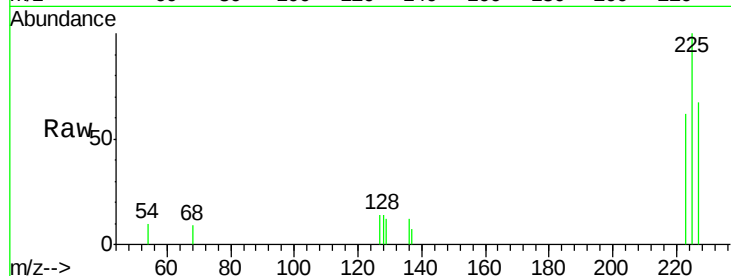




#11  
Hexachlorobutadiene  
Concen: 0.54 ng  
RT: 10.90 min Scan# 528  
Delta R.T. -0.02 min  
Lab File: BE091829.D  
Acq: 20 May 2016 2:58

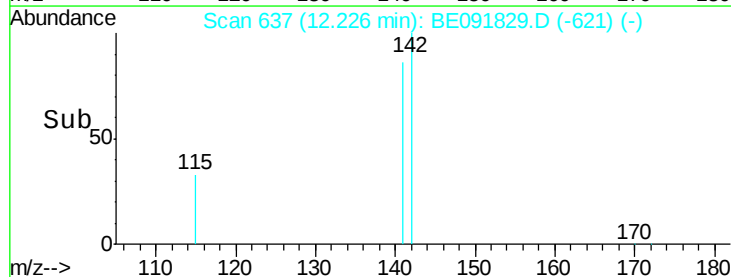
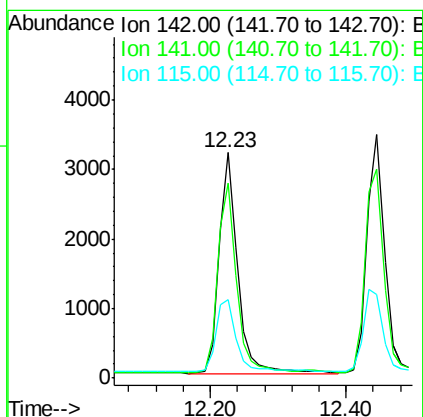
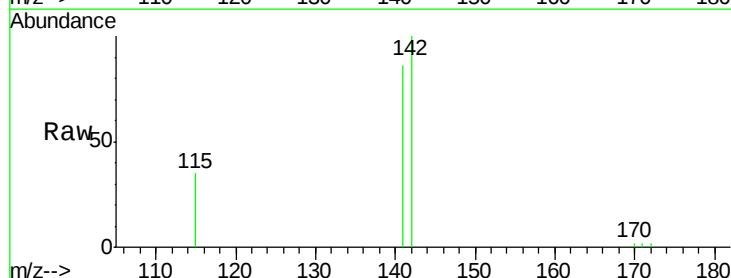
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

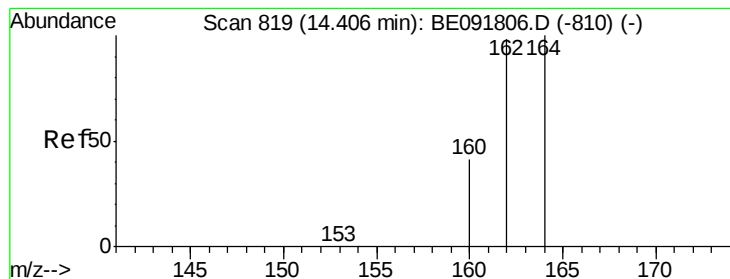
Tgt Ion: 225 Resp: 1906  
Ion Ratio Lower Upper  
225 100  
223 77.0 49.0 73.6#  
227 76.1 50.3 75.5#



#12  
2-Methylnaphthalene  
Concen: 0.38 ng  
RT: 12.23 min Scan# 637  
Delta R.T. -0.01 min  
Lab File: BE091829.D  
Acq: 20 May 2016 2:58

Tgt Ion: 142 Resp: 6116  
Ion Ratio Lower Upper  
142 100  
141 86.4 71.4 107.0  
115 34.9 30.3 45.5





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 819

Delta R.T. -0.01 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

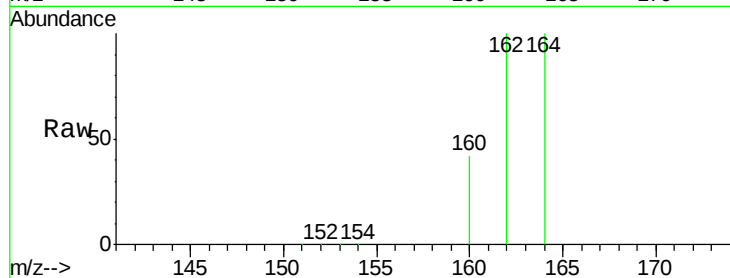
Tgt Ion:164 Resp: 72269

Ion Ratio Lower Upper

164 100

162 100.1 85.3 127.9

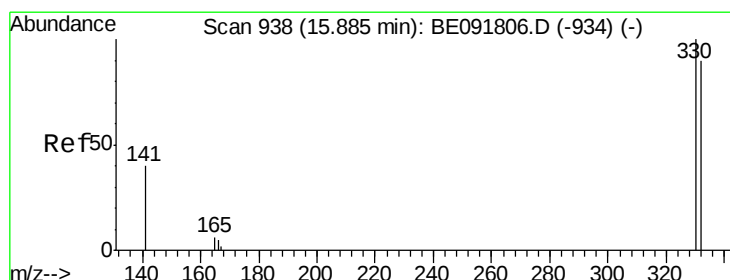
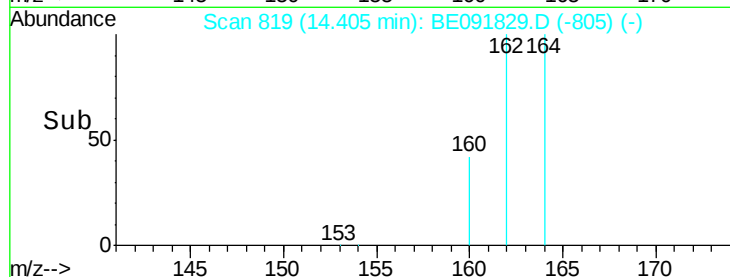
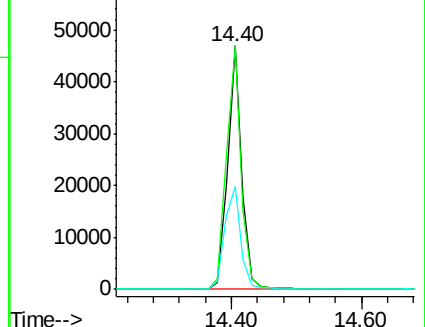
160 42.5 46.2 69.2#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.44 ng

RT: 15.90 min Scan# 939

Delta R.T. 0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

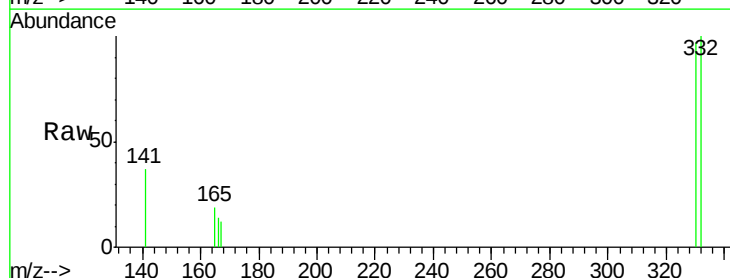
Tgt Ion:330 Resp: 1222

Ion Ratio Lower Upper

330 100

332 94.8 79.1 118.7

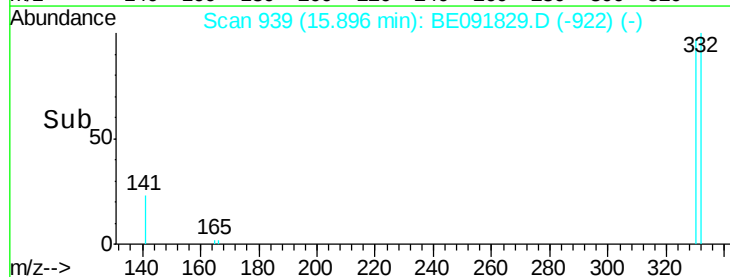
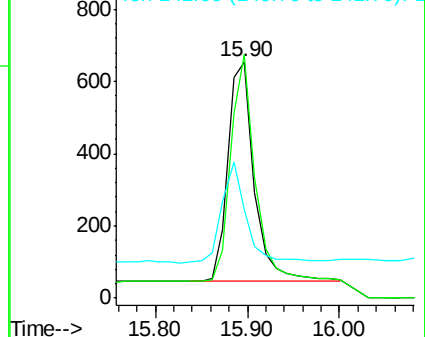
141 42.1 125.4 188.0#

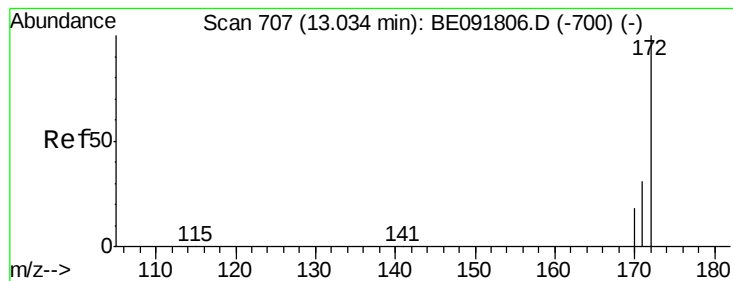


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.39 ng

RT: 13.02 min Scan# 706

Delta R.T. -0.01 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

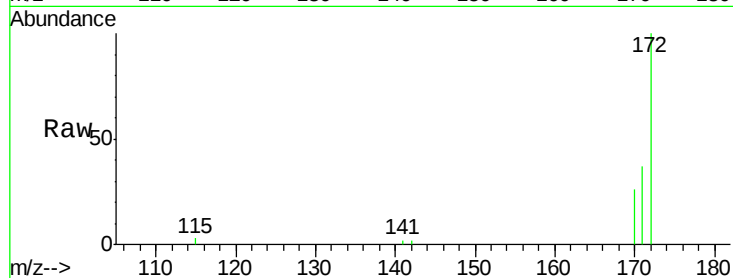
Tgt Ion:172 Resp: 7914

Ion Ratio Lower Upper

172 100

171 36.9 28.8 43.2

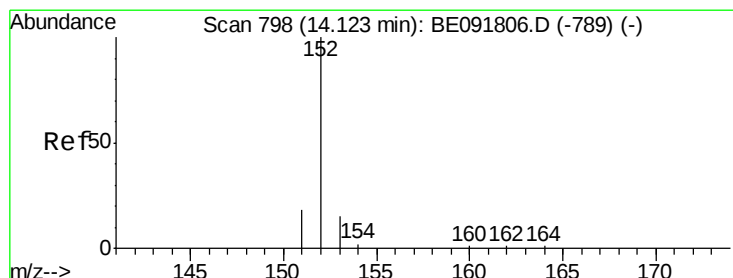
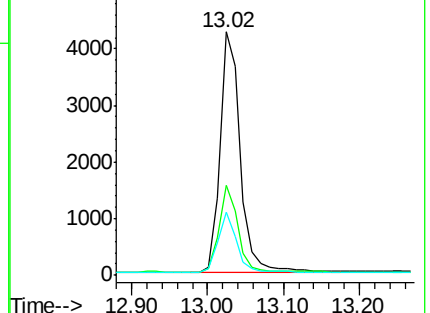
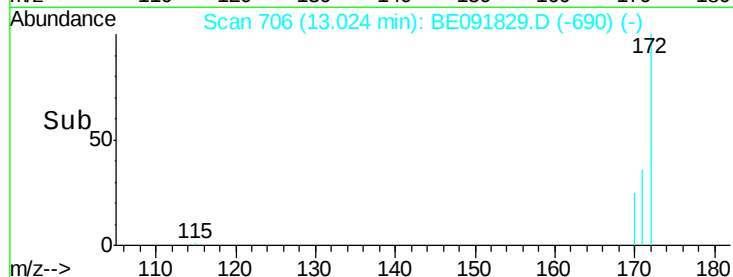
170 26.0 19.3 28.9



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: 0.41 ng

RT: 14.12 min Scan# 798

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

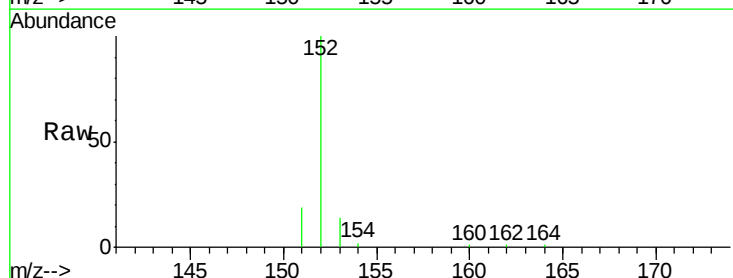
Tgt Ion:152 Resp: 13058

Ion Ratio Lower Upper

152 100

151 24.8 3.9 5.9#

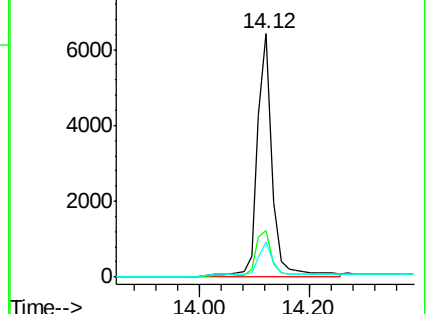
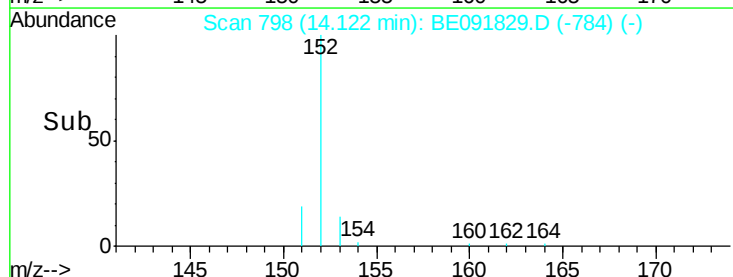
153 13.5 10.3 15.5

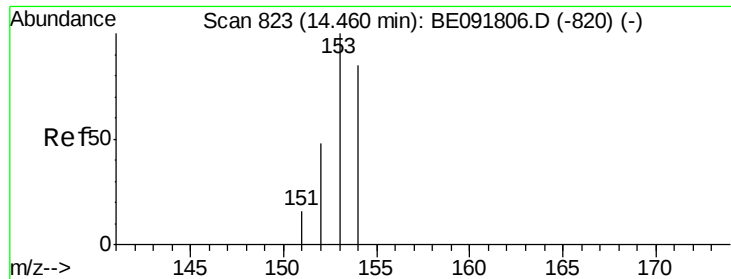


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

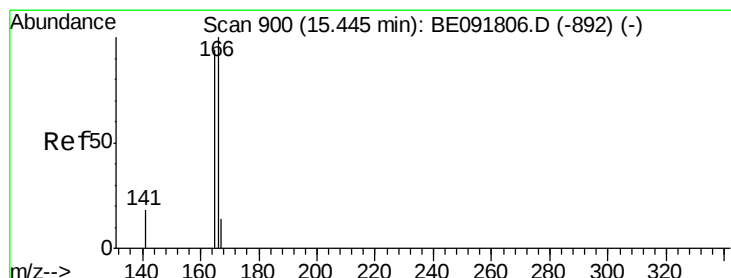
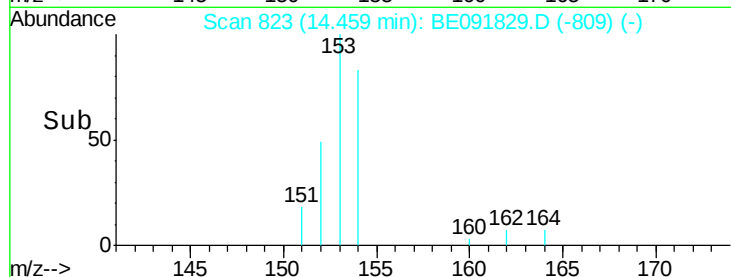
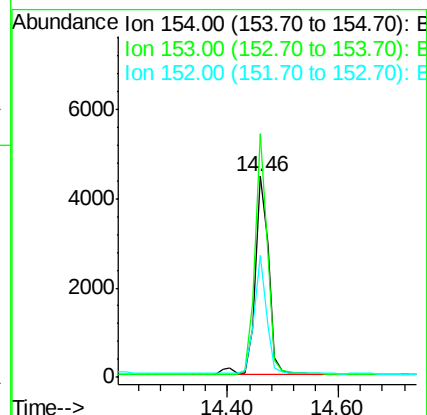
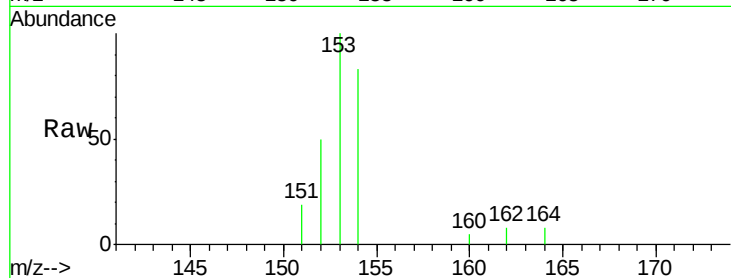




#17  
Acenaphthene  
Concen: 0.39 ng  
RT: 14.46 min Scan# 823  
Delta R.T. -0.01 min  
Lab File: BE091829.D  
Acq: 20 May 2016 2:58

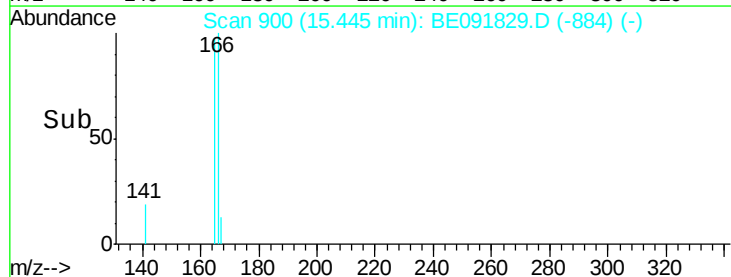
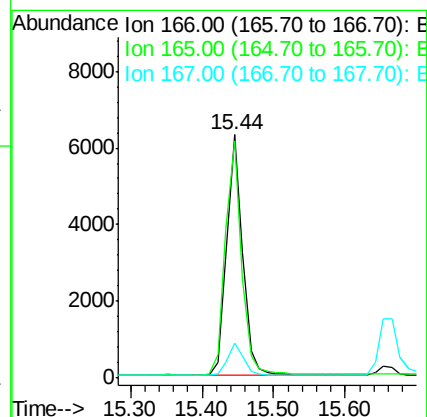
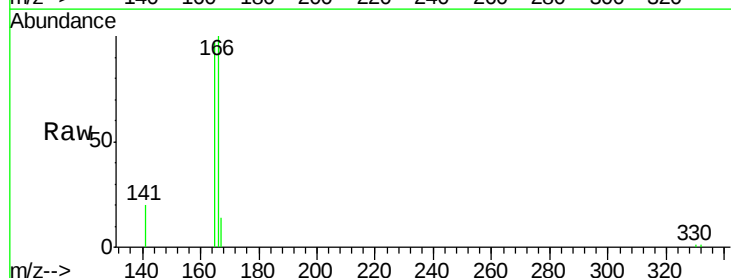
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

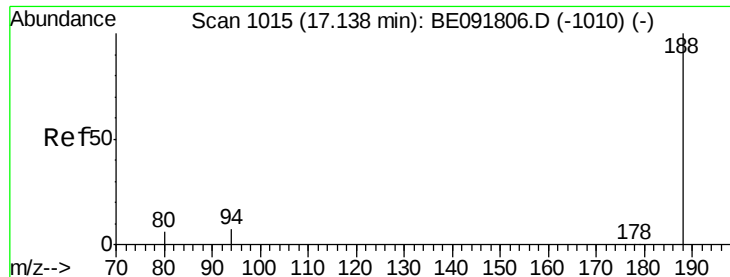
Tgt Ion:154 Resp: 7610  
Ion Ratio Lower Upper  
154 100  
153 109.6 80.0 120.0  
152 53.7 40.0 60.0



#18  
Fluorene  
Concen: 0.39 ng  
RT: 15.44 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: BE091829.D  
Acq: 20 May 2016 2:58

Tgt Ion:166 Resp: 9804  
Ion Ratio Lower Upper  
166 100  
165 98.5 80.8 121.2  
167 13.7 10.9 16.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

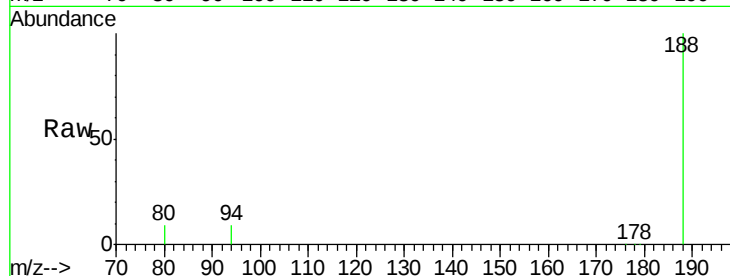
Tgt Ion:188 Resp: 211746

Ion Ratio Lower Upper

188 100

94 9.2 8.7 13.1

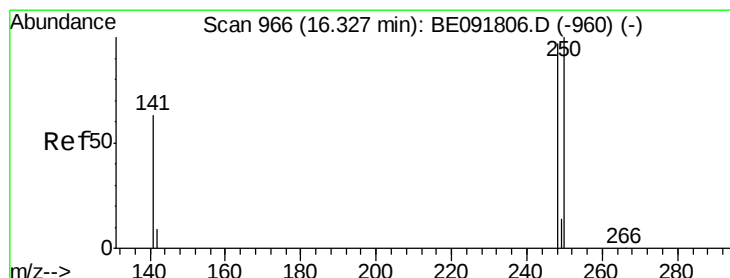
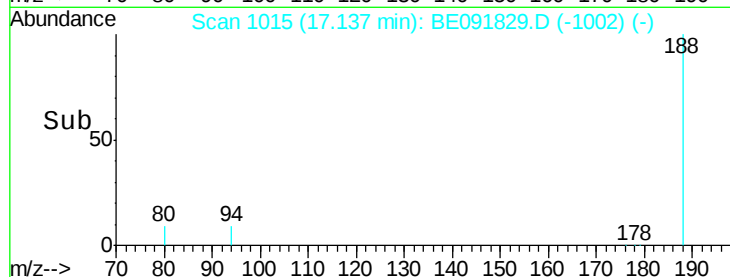
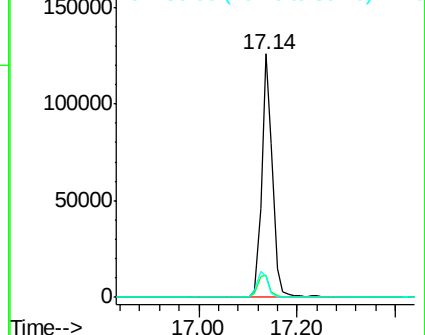
80 8.8 9.4 14.0#



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: 0.37 ng

RT: 16.33 min Scan# 966

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

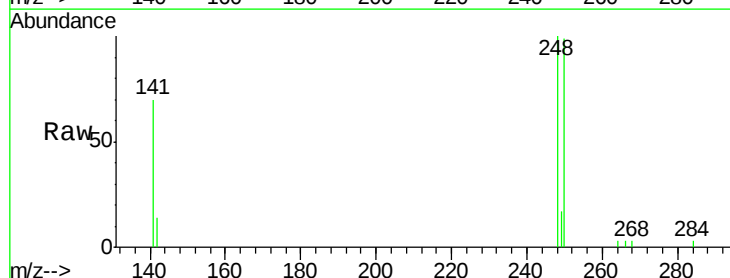
Tgt Ion:248 Resp: 2923

Ion Ratio Lower Upper

248 100

250 97.1 80.5 120.7

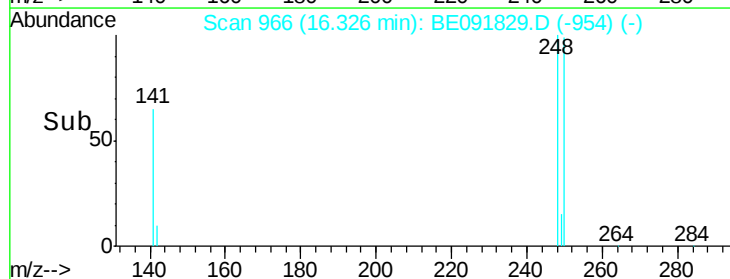
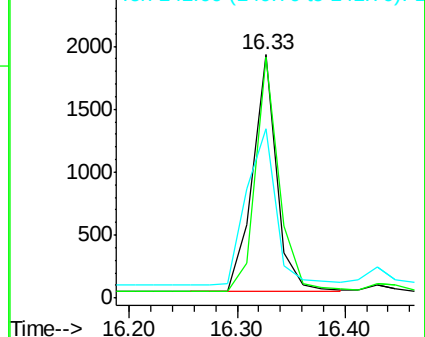
141 80.4 72.0 108.0

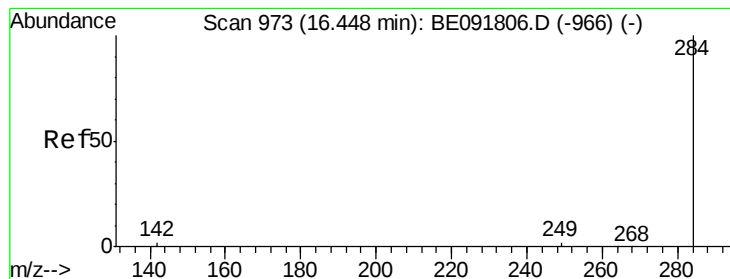


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.36 ng

RT: 16.45 min Scan# 973

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

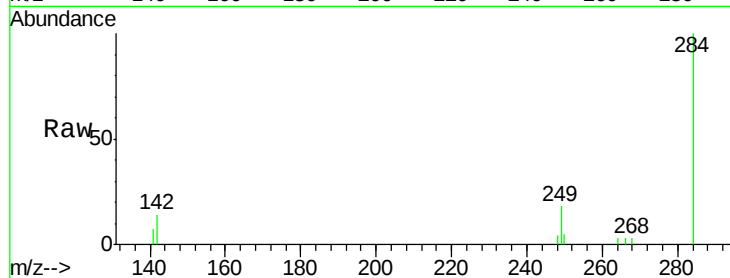
Tgt Ion:284 Resp: 2983

Ion Ratio Lower Upper

284 100

142 37.9 32.2 48.2

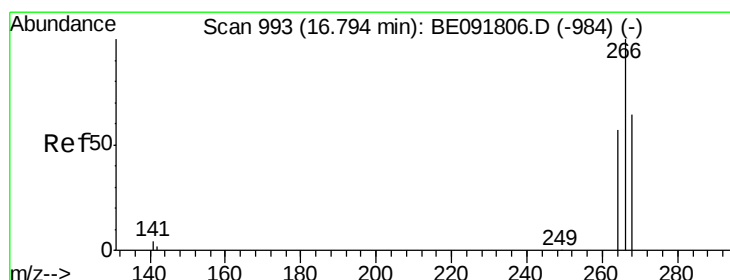
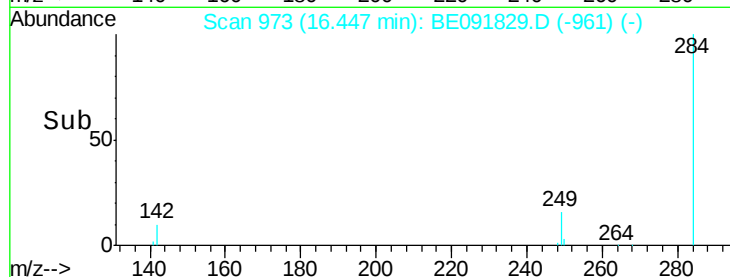
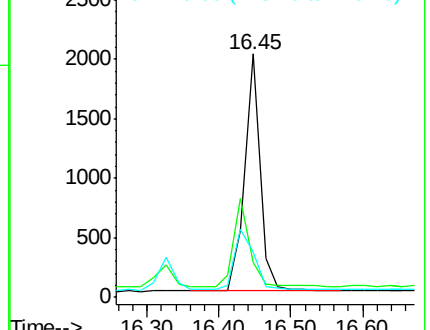
249 31.8 25.4 38.2



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: 0.35 ng

RT: 16.79 min Scan# 993

Delta R.T. 0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

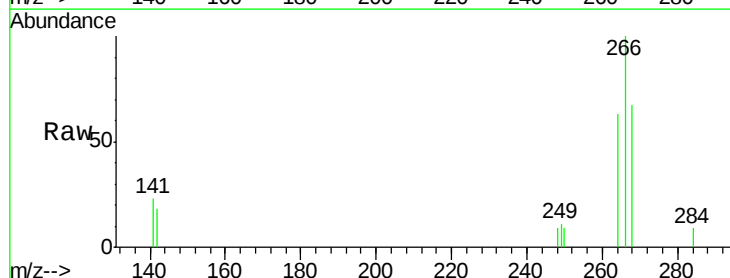
Tgt Ion:266 Resp: 1186

Ion Ratio Lower Upper

266 100

268 67.2 58.2 87.2

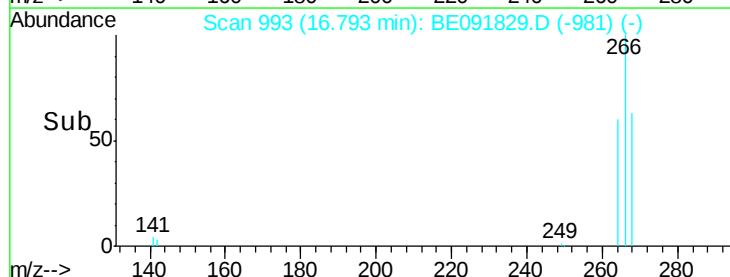
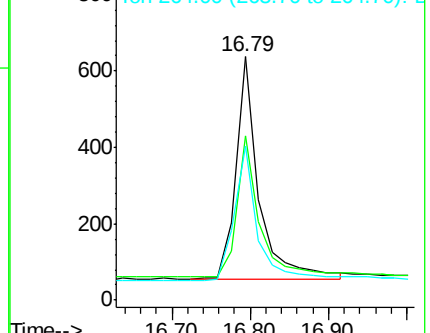
264 63.0 56.2 84.4



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





#23

Phenanthrene

Concen: 0.35 ng

RT: 17.17 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

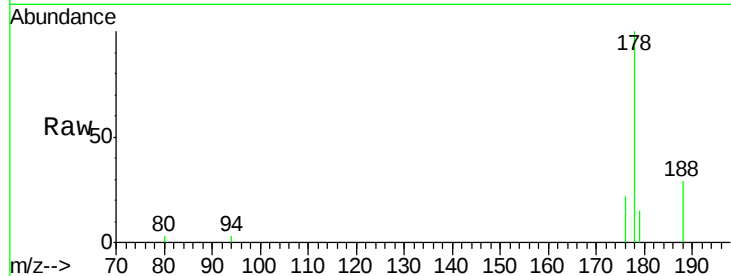
Tgt Ion:178 Resp: 18543

Ion Ratio Lower Upper

178 100

176 20.0 15.3 22.9

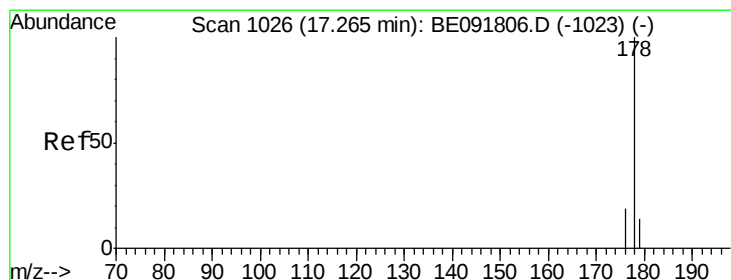
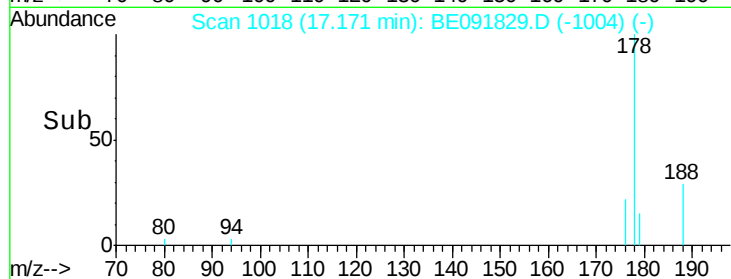
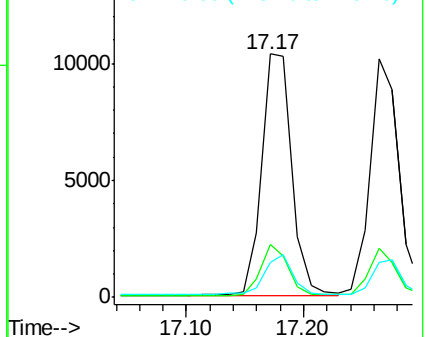
179 17.3 12.6 18.8



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: 0.38 ng

RT: 17.26 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

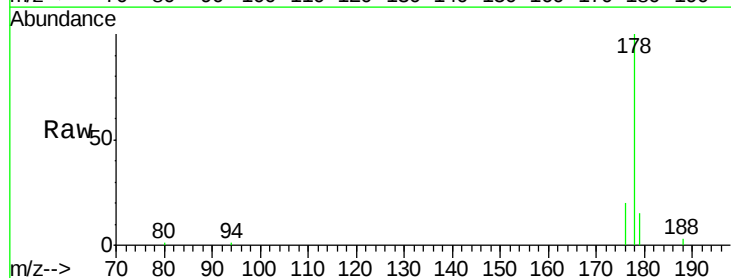
Tgt Ion:178 Resp: 17449

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

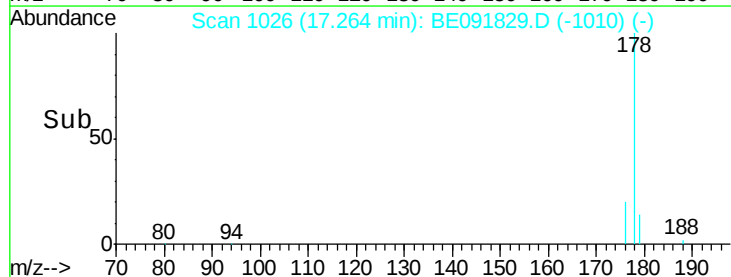
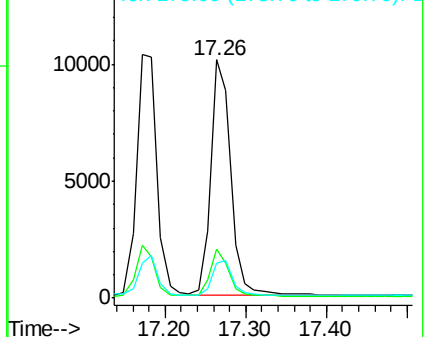
179 15.1 11.8 17.6

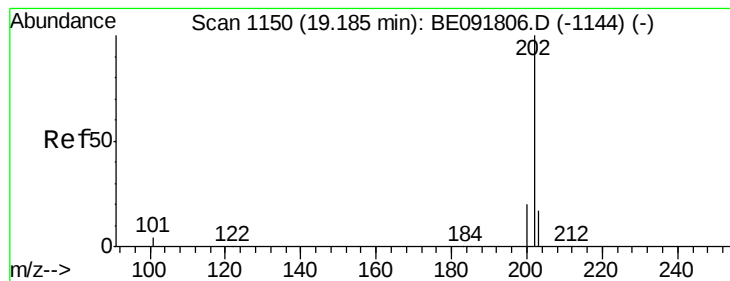


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene

Concen: 0.40 ng

RT: 19.19 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

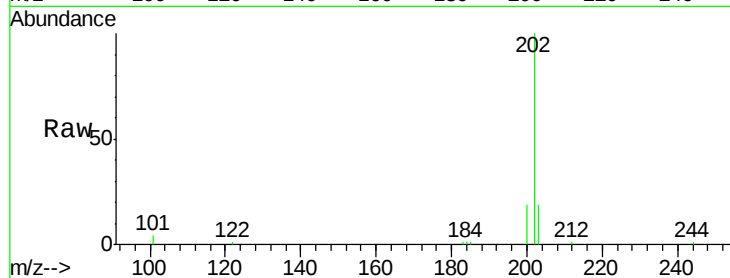
Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

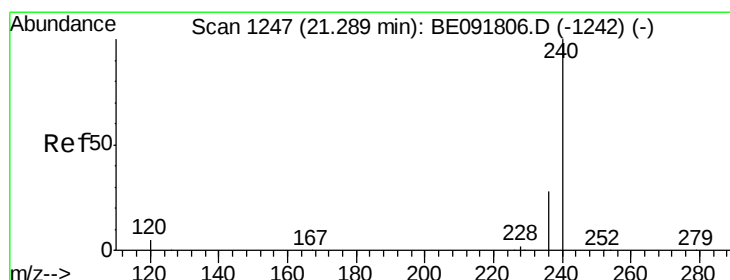
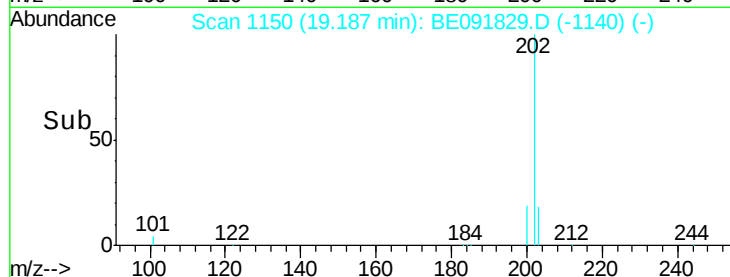
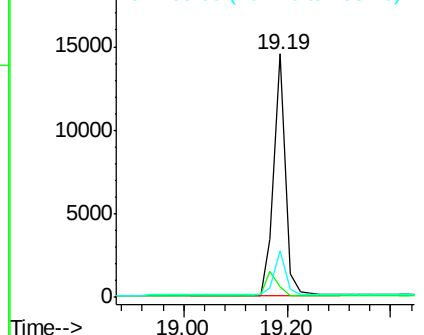
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 22739 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 11.0  | 11.0  | 16.6# |
| 203      | 18.0  | 13.9  | 20.9  |



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



#26

Chrysene-d12

Concen: 5.00 ng

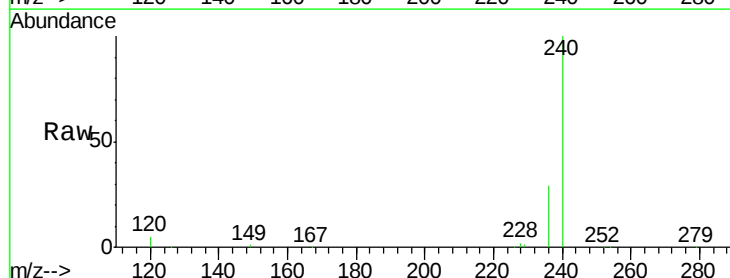
RT: 21.29 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

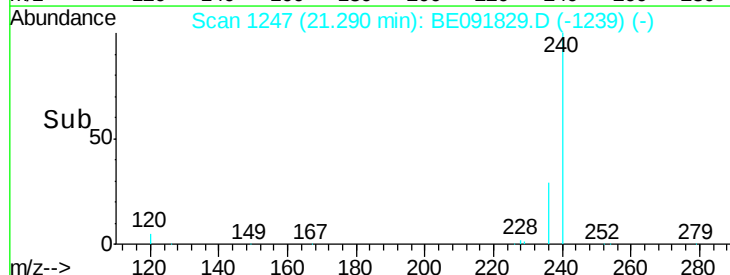
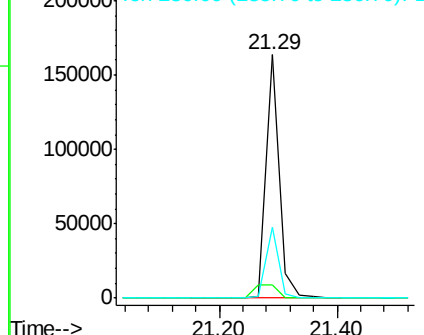
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 255122 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 5.4   | 11.0  | 16.4#  |
| 236      | 29.3  | 21.7  | 32.5   |

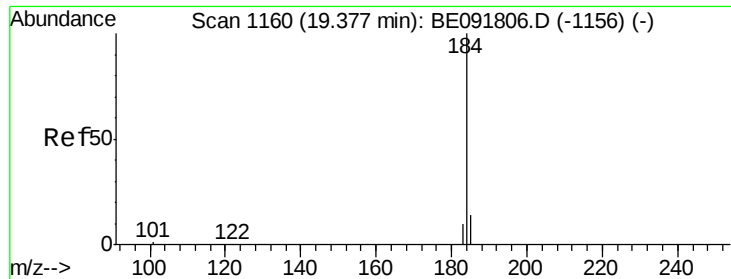


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.28 ng

RT: 19.38 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

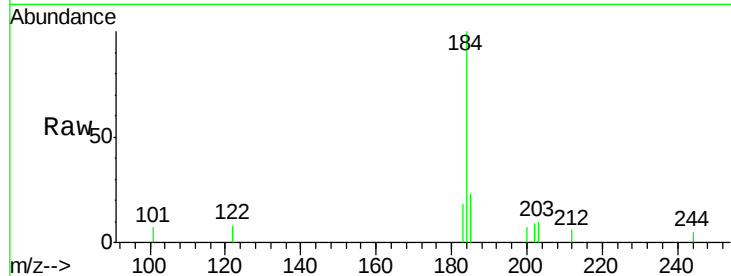
Tgt Ion:184 Resp: 4307

Ion Ratio Lower Upper

184 100

185 22.6 22.3 33.5

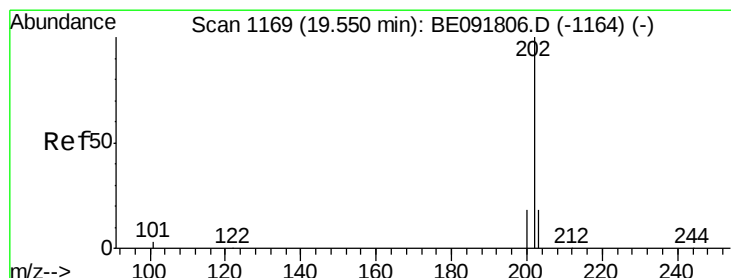
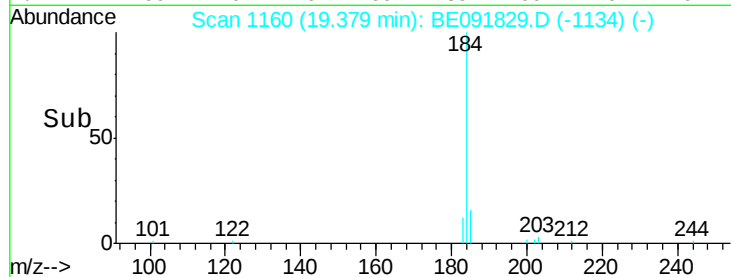
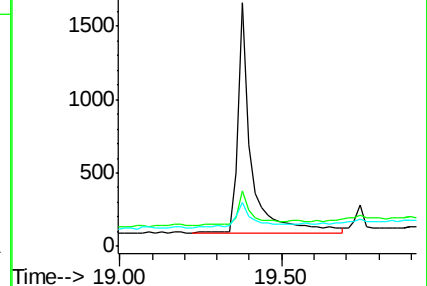
183 18.0 16.4 24.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 0.42 ng

RT: 19.55 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

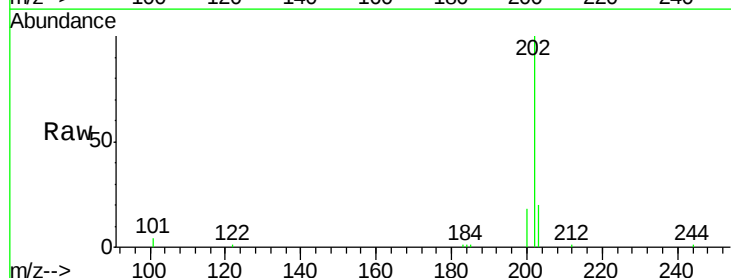
Tgt Ion:202 Resp: 23386

Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

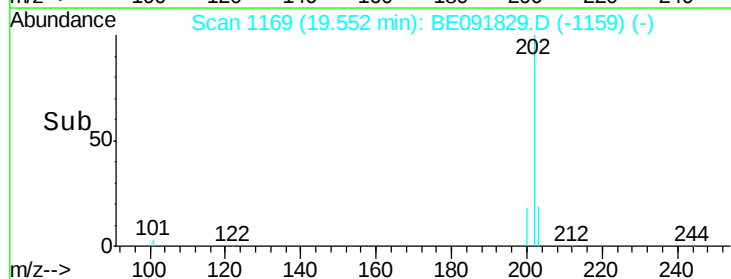
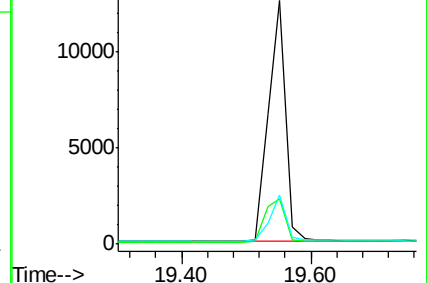
203 18.1 14.0 21.0

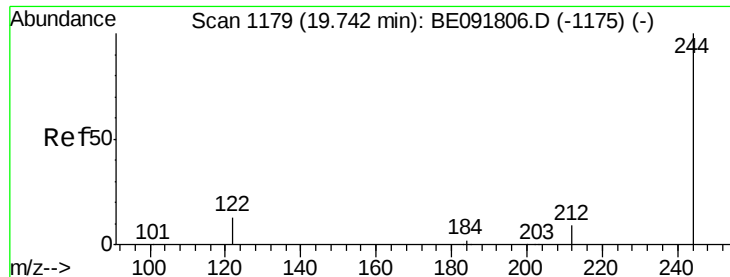


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.42 ng

RT: 19.74 min Scan# 1179

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

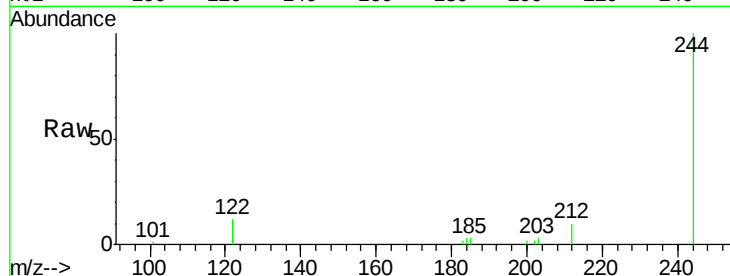
Tgt Ion:244 Resp: 15078

Ion Ratio Lower Upper

244 100

212 10.0 6.9 10.3

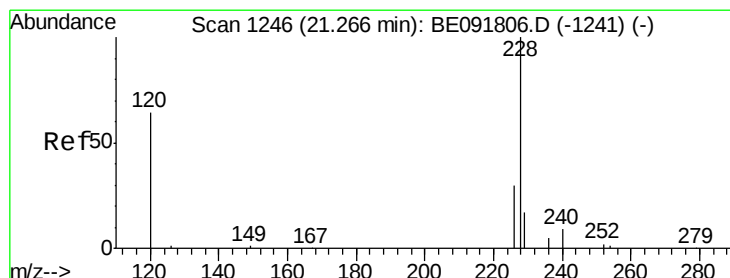
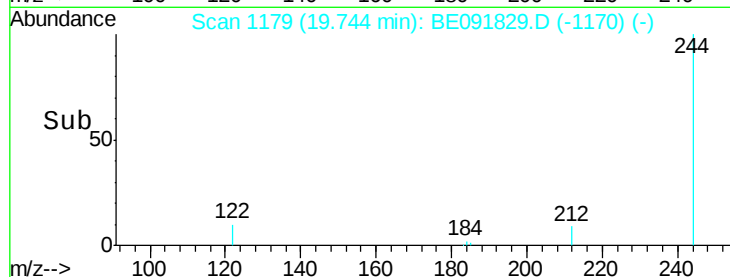
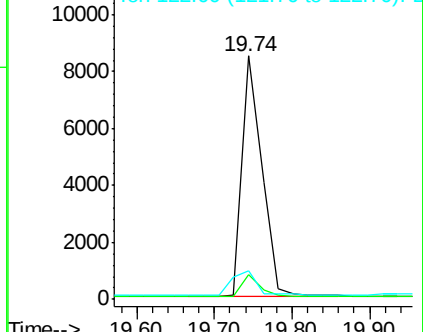
122 11.8 11.0 16.4



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



#30

Benzo(a)anthracene

Concen: 0.76 ng

RT: 21.27 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

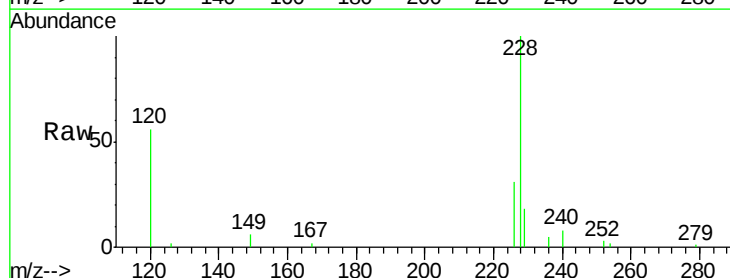
Tgt Ion:228 Resp: 46775

Ion Ratio Lower Upper

228 100

226 31.4 21.0 31.4

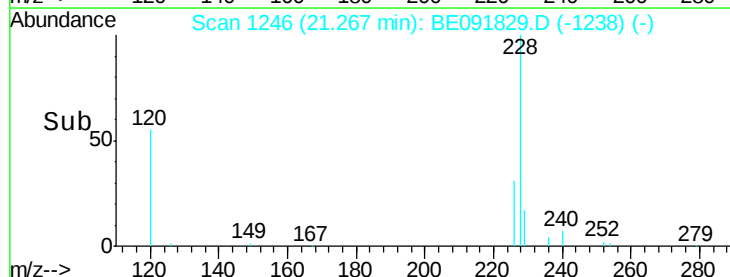
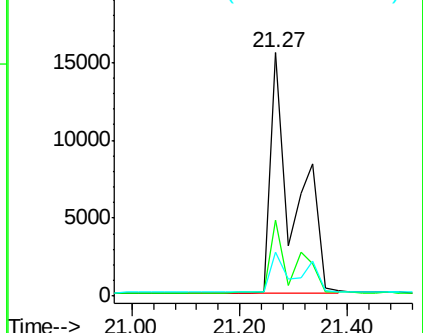
229 18.0 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

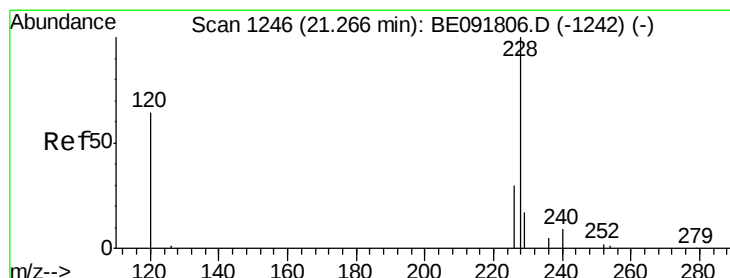
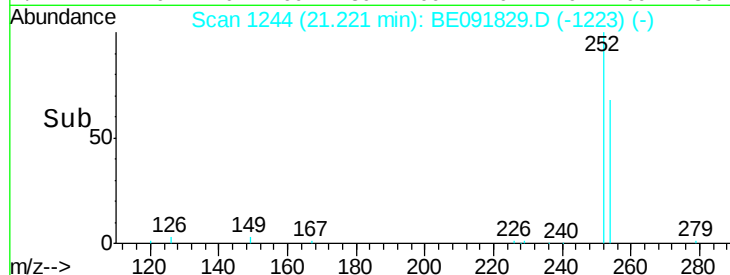
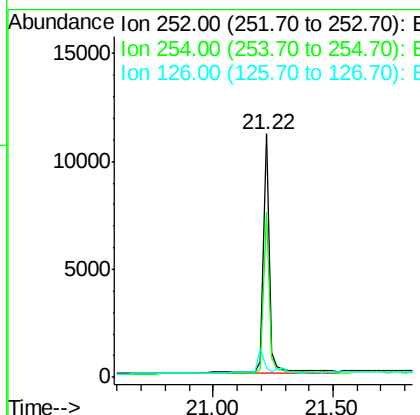
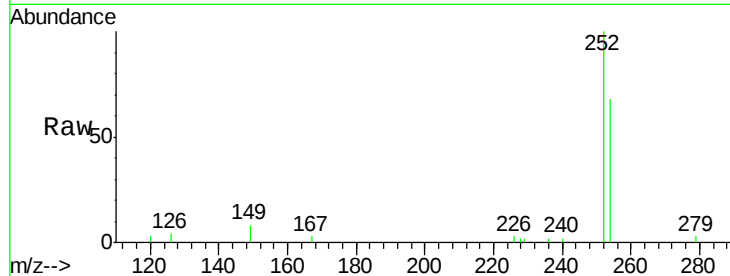




#31  
 3,3'-Dichlorobenzidine  
 Concen: 0.51 ng  
 RT: 21.22 min Scan# 1244  
 Delta R.T. -0.02 min  
 Lab File: BE091829.D  
 Acq: 20 May 2016 2:58

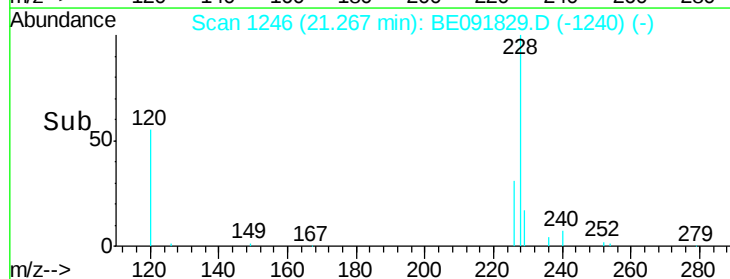
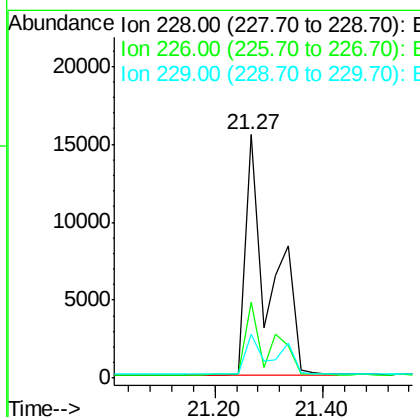
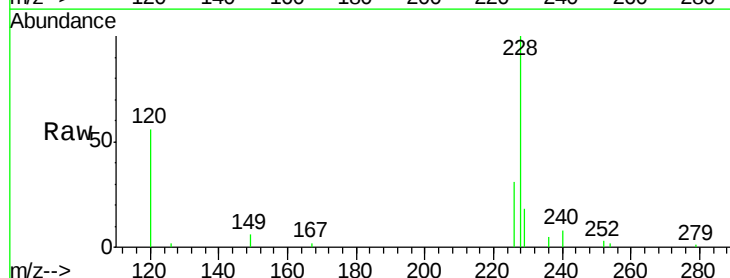
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDC00.4EC

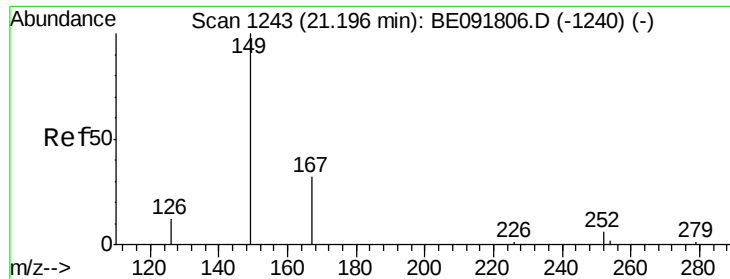
Tgt Ion: 252 Resp: 19970  
 Ion Ratio Lower Upper  
 252 100  
 254 67.8 51.1 76.7  
 126 4.1 12.6 18.8#



#32  
 Chrysene  
 Concen: 0.92 ng  
 RT: 21.27 min Scan# 1246  
 Delta R.T. -0.07 min  
 Lab File: BE091829.D  
 Acq: 20 May 2016 2:58

Tgt Ion: 228 Resp: 46864  
 Ion Ratio Lower Upper  
 228 100  
 226 31.4 24.0 36.0  
 229 18.0 15.9 23.9





#33

Bis(2-ethylhexyl)phthalate

Concen: 0.62 ng

RT: 21.20 min Scan# 1243

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

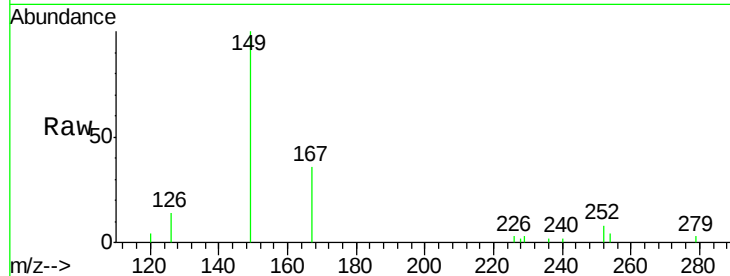
Tgt Ion:149 Resp: 13781

Ion Ratio Lower Upper

149 100

167 33.1 19.5 29.3#

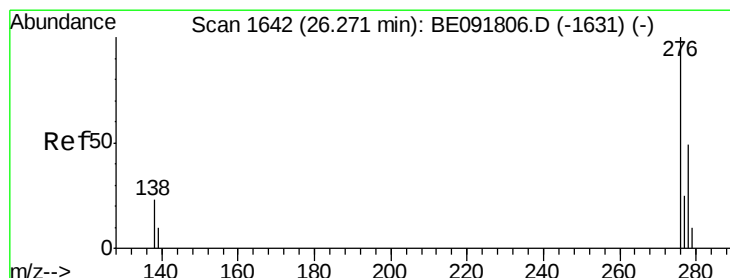
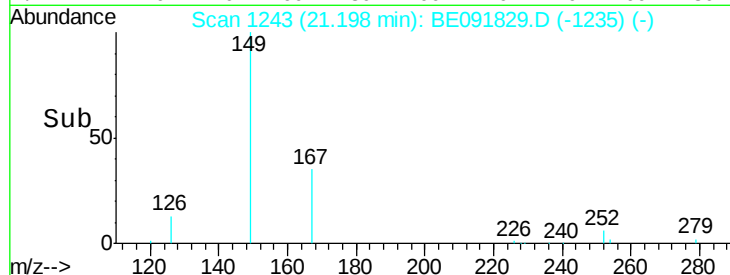
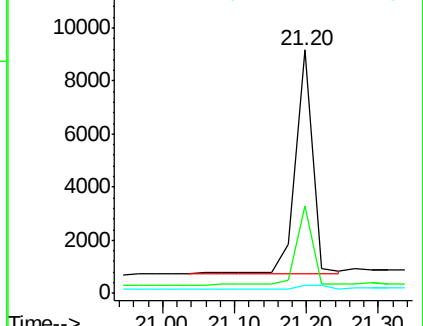
279 3.3 10.0 15.0#



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



#34

Indeno(1,2,3-cd)pyrene

Concen: 0.41 ng

RT: 26.27 min Scan# 1642

Delta R.T. -0.03 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

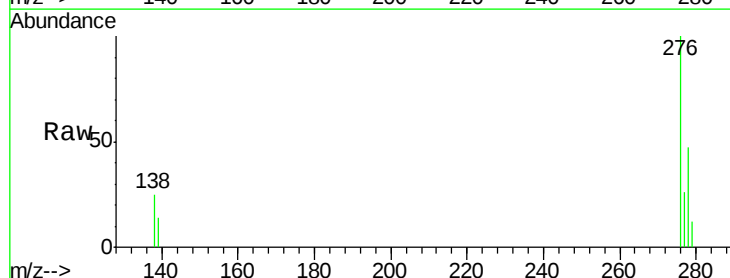
Tgt Ion:276 Resp: 25927

Ion Ratio Lower Upper

276 100

138 25.5 23.4 35.2

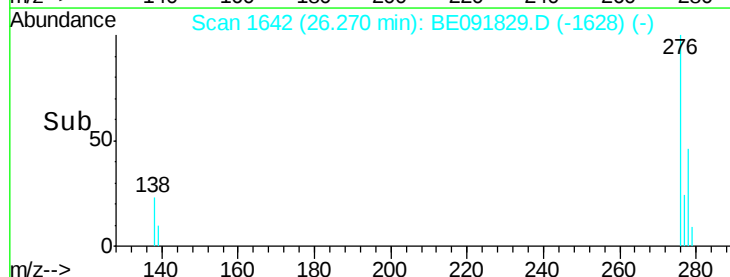
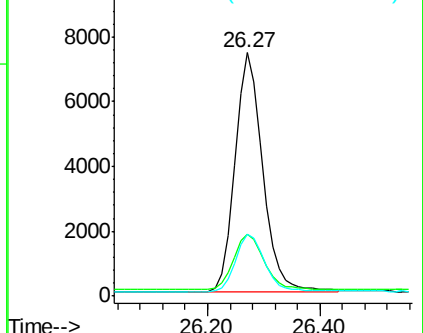
277 25.2 19.8 29.8

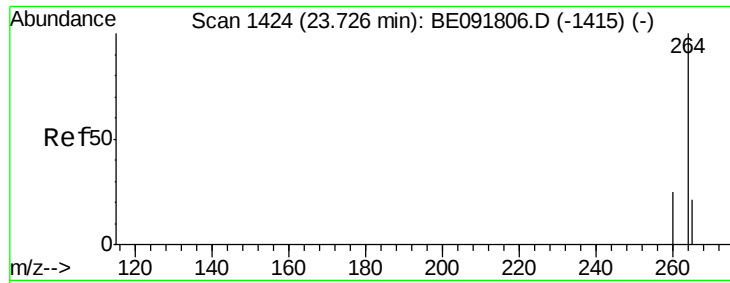


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

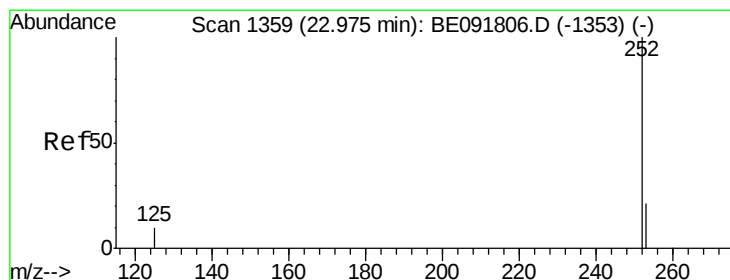
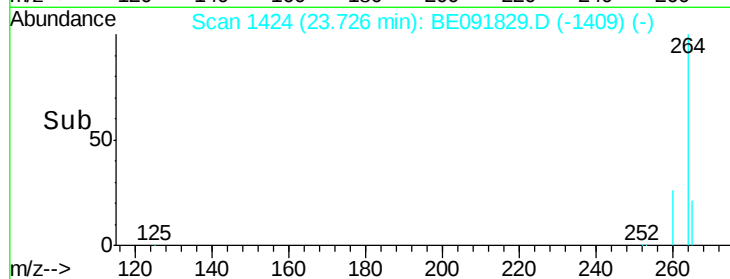
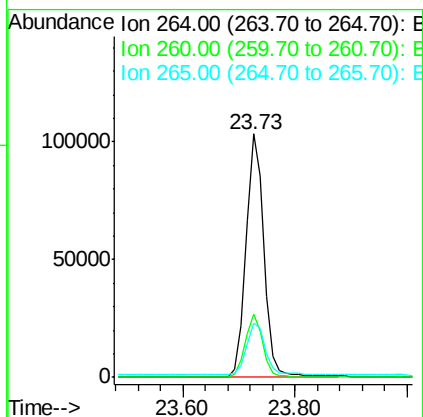
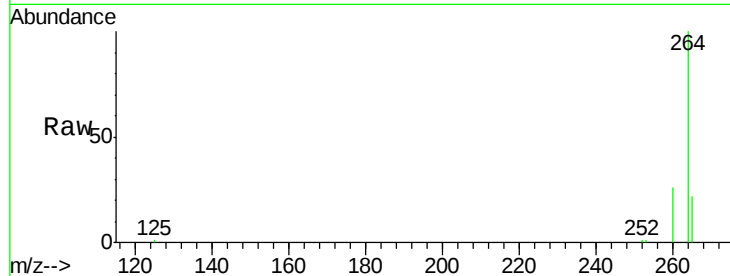




#35  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 23.73 min Scan# 1424  
 Delta R.T. -0.02 min  
 Lab File: BE091829.D  
 Acq: 20 May 2016 2:58

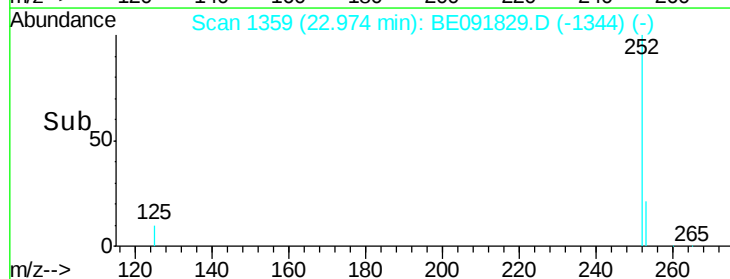
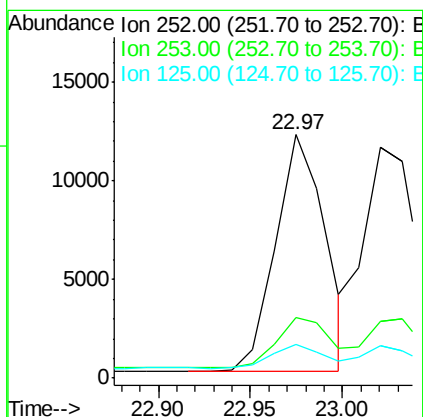
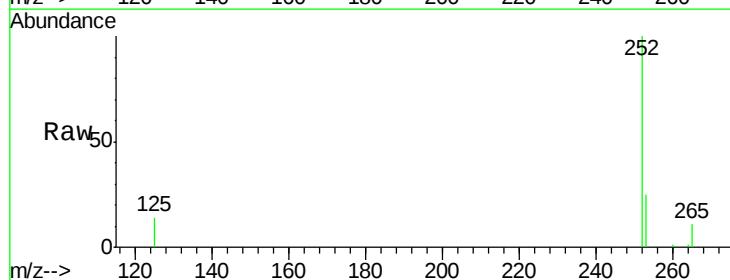
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

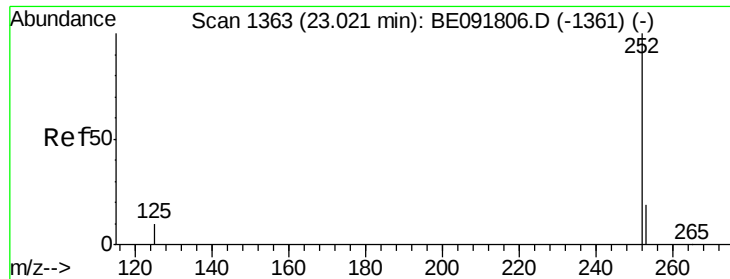
Tgt Ion: 264 Resp: 230938  
 Ion Ratio Lower Upper  
 264 100  
 260 25.7 20.0 30.0  
 265 22.4 17.5 26.3



#36  
**Benzo(b)fluoranthene**  
 Concen: 0.39 ng  
 RT: 22.97 min Scan# 1359  
 Delta R.T. -0.02 min  
 Lab File: BE091829.D  
 Acq: 20 May 2016 2:58

Tgt Ion: 252 Resp: 22621  
 Ion Ratio Lower Upper  
 252 100  
 253 25.1 17.4 26.0  
 125 14.0 10.2 15.2





#37

Benzo(k)fluoranthene

Concen: 0.40 ng

RT: 23.02 min Scan# 1363

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

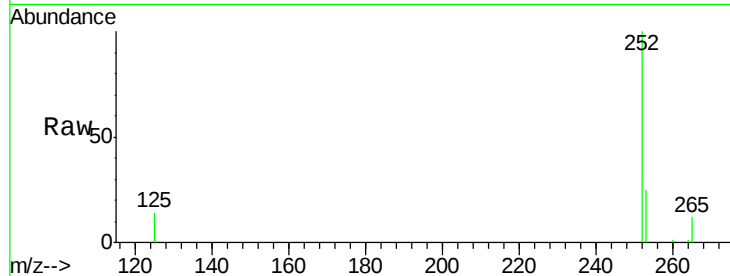
Tgt Ion:252 Resp: 23708

Ion Ratio Lower Upper

252 100

253 24.8 17.6 26.4

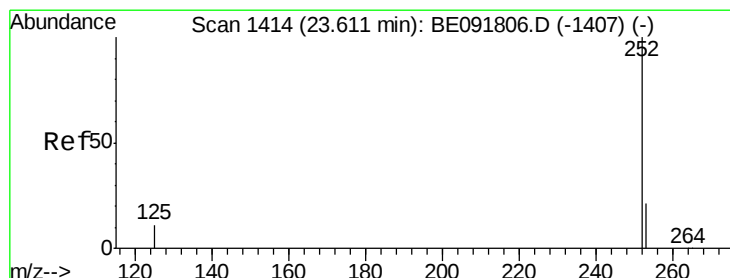
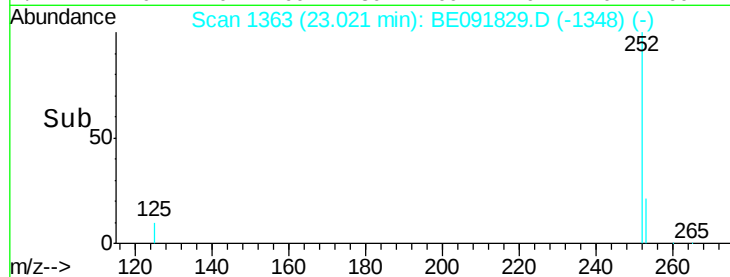
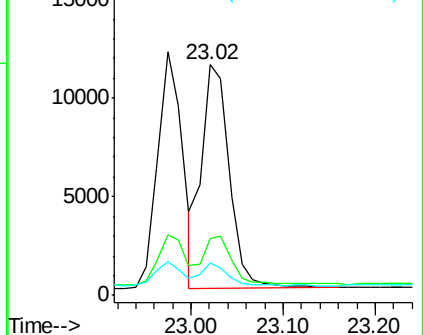
125 14.0 9.9 14.9



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

Benzo(a)pyrene

Concen: 0.40 ng

RT: 23.61 min Scan# 1414

Delta R.T. -0.02 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

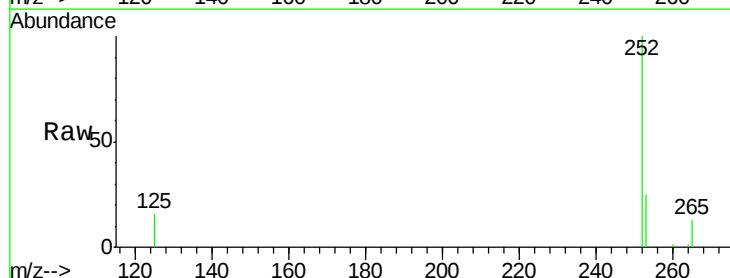
Tgt Ion:252 Resp: 22288

Ion Ratio Lower Upper

252 100

253 25.5 18.1 27.1

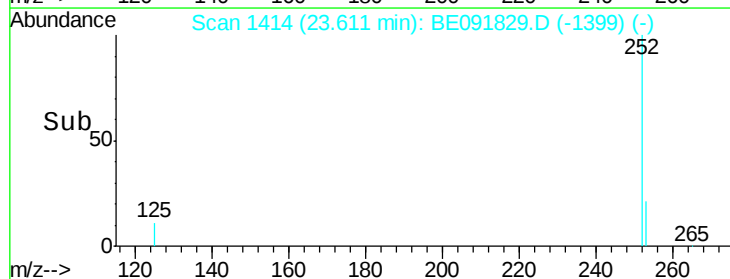
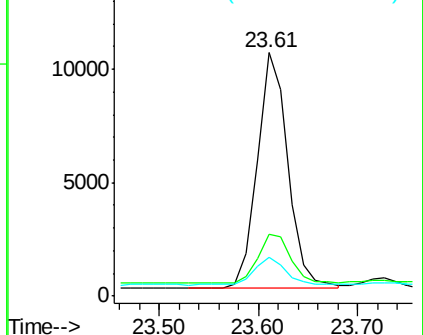
125 15.8 11.0 16.4



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





#39

Dibenzo(a,h)anthracene

Concen: 0.40 ng

RT: 26.29 min Scan# 1644

Delta R.T. -0.05 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

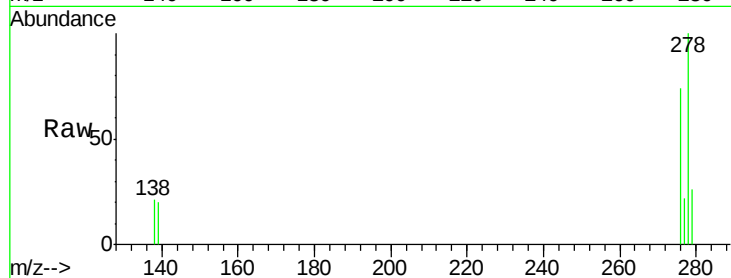
Tgt Ion: 278 Resp: 21610

Ion Ratio Lower Upper

278 100

139 20.3 16.0 24.0

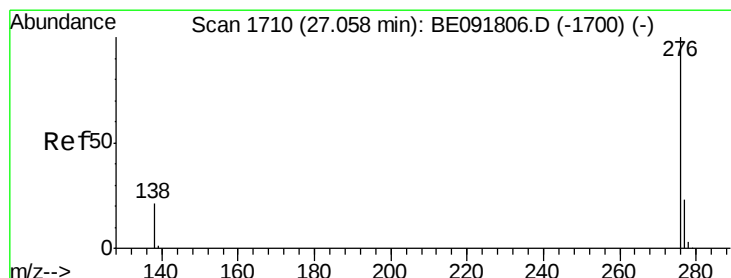
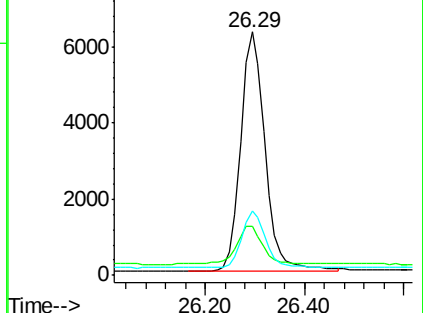
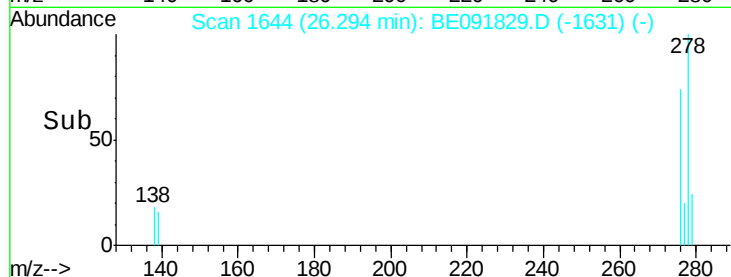
279 26.4 19.4 29.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#40

Benzo(g,h,i)perylene

Concen: 0.40 ng

RT: 27.06 min Scan# 1710

Delta R.T. -0.05 min

Lab File: BE091829.D

Acq: 20 May 2016 2:58

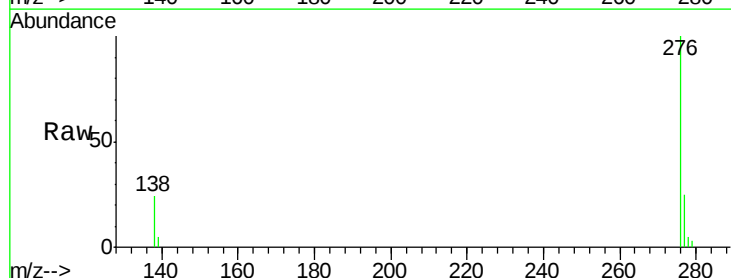
Tgt Ion: 276 Resp: 22118

Ion Ratio Lower Upper

276 100

277 25.3 18.6 28.0

138 24.2 20.4 30.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

