

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE050316\  
 Data File : BE091746.D  
 Acq On : 3 May 2016 16:46  
 Operator : UM/SJ  
 Sample : H2809-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 TILCON-MH-SF-003

Quant Time: May 04 01:04:42 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE042616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 26 16:09:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 49870    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.57 | 136  | 226456   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.41 | 164  | 130471   | 5.00 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.15 | 188  | 324198   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.31 | 240  | 365095   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.75 | 264  | 362582   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.39  | 112  | 73370    | 5.99 | ng    | 0.00     |
| 5) Phenol-d6                | 6.95  | 99   | 103634   | 6.38 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.95  | 82   | 40842    | 2.79 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330  | 22367    | 4.67 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.03 | 172  | 117318   | 3.18 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.76 | 244  | 195977   | 3.44 | ng    | 0.00     |

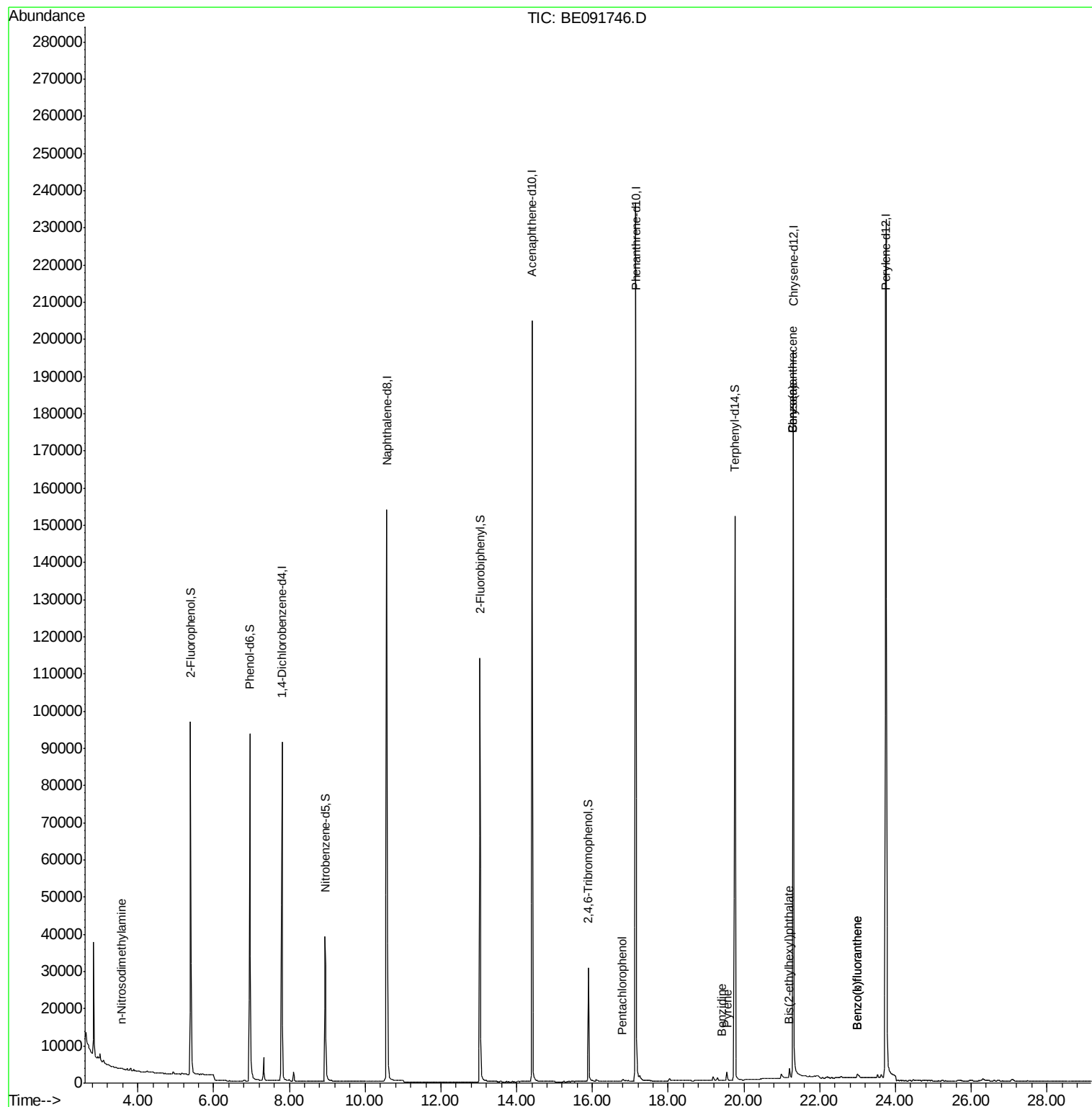
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.56  | 42   | 388      | 0.04 | ng    | # 1    |
| 22) Pentachlorophenol          | 16.79 | 266  | 493      | 0.17 | ng    | 94     |
| 27) Benzidine                  | 19.42 | 184  | 287      | 0.17 | ng    | # 1    |
| 28) Pyrene                     | 19.55 | 202  | 2425     | 0.03 | ng    | # 95   |
| 30) Benzo(a)anthracene         | 21.29 | 228  | 3619     | 0.04 | ng    | # 85   |
| 32) Chrysene                   | 21.29 | 228  | 3544     | 0.04 | ng    | # 82   |
| 33) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 3090     | 0.11 | ng    | # 89   |
| 36) Benzo(b)fluoranthene       | 23.00 | 252  | 2399     | 0.03 | ng    | # 1    |
| 37) Benzo(k)fluoranthene       | 23.00 | 252  | 2399     | 0.03 | ng    | # 1    |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

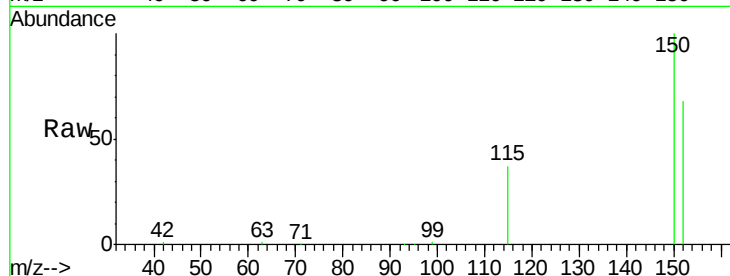
Tgt Ion:152 Resp: 49870

Ion Ratio Lower Upper

152 100

150 146.0 122.6 183.8

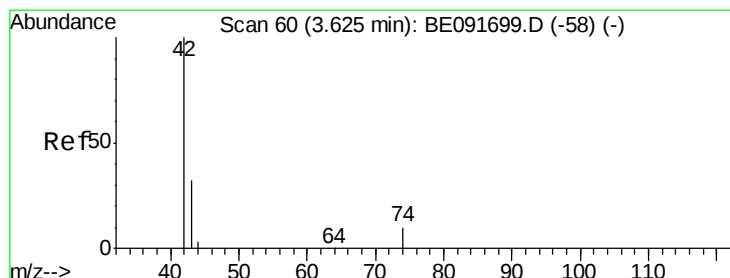
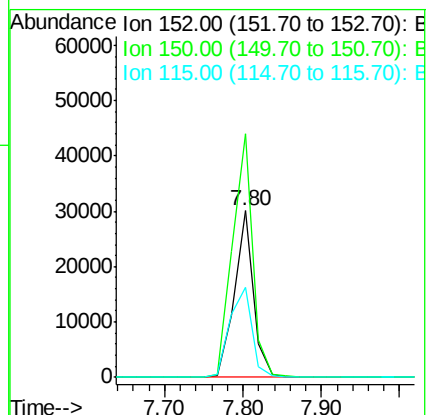
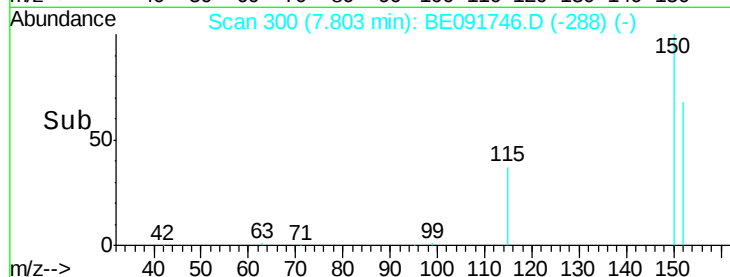
115 53.7 52.8 79.2



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



#3

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.56 min Scan# 56

Delta R.T. -0.07 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

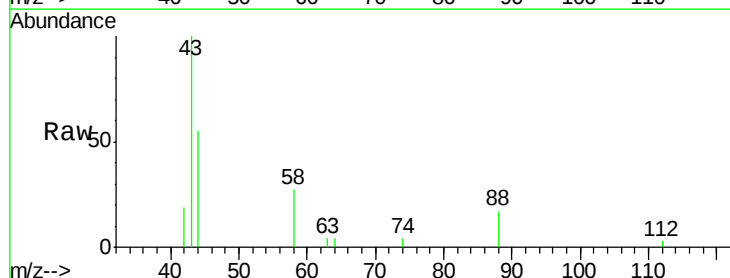
Tgt Ion: 42 Resp: 388

Ion Ratio Lower Upper

42 100

74 0.0 87.9 131.9#

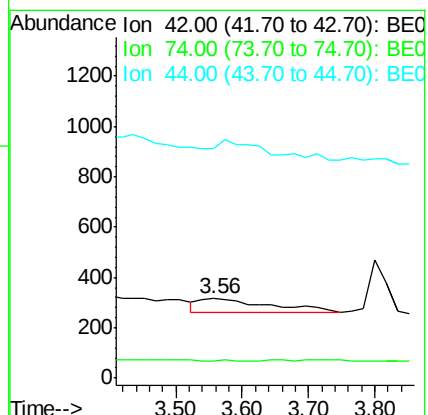
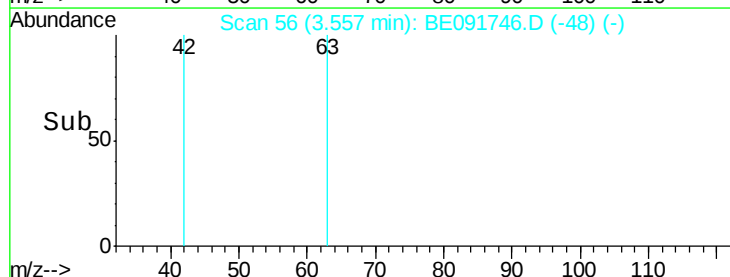
44 46.4 6.6 9.8#

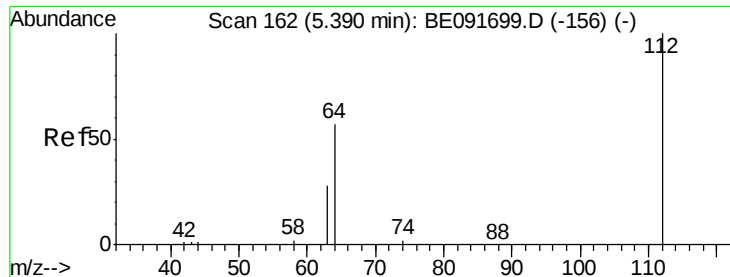


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 5.99 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

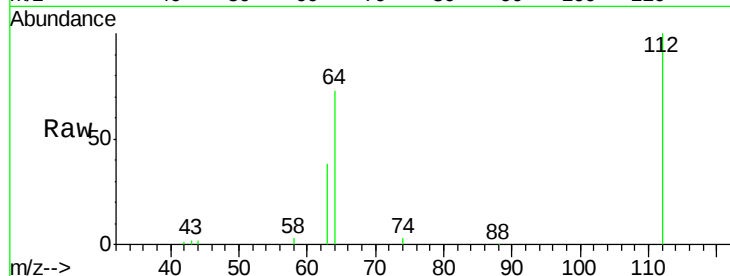
Tgt Ion: 112 Resp: 73370

Ion Ratio Lower Upper

112 100

64 66.9 30.9 46.3#

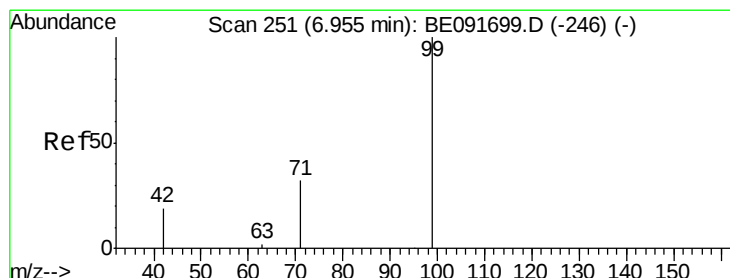
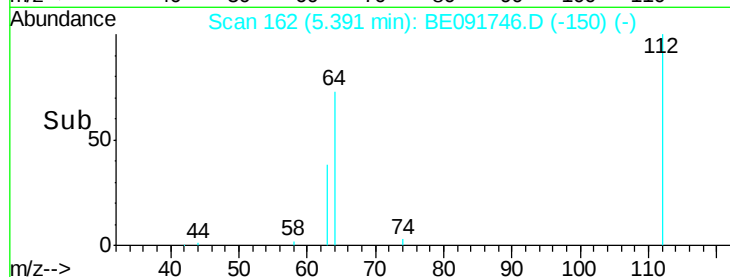
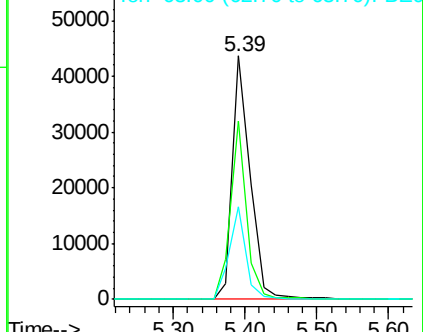
63 36.3 16.7 25.1#



Abundance Ion 112.00 (111.70 to 112.70): BE091699.D (-156) (-)

Ion 64.00 (63.70 to 64.70): BE091699.D (-156) (-)

Ion 63.00 (62.70 to 63.70): BE091699.D (-156) (-)



#5

Phenol-d6

Concen: 6.38 ng

RT: 6.95 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

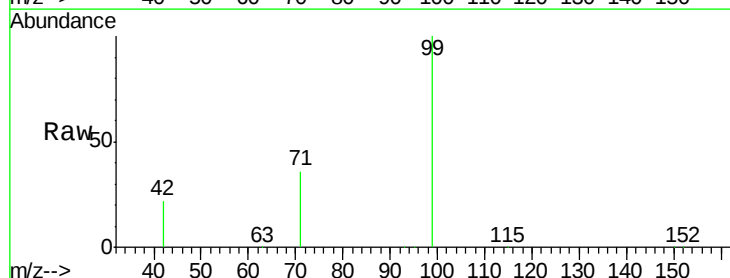
Tgt Ion: 99 Resp: 103634

Ion Ratio Lower Upper

99 100

42 24.7 16.2 24.2#

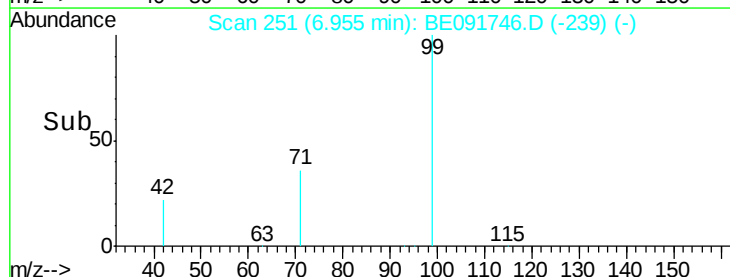
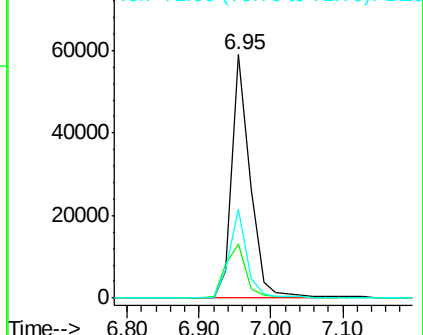
71 35.3 29.0 43.4

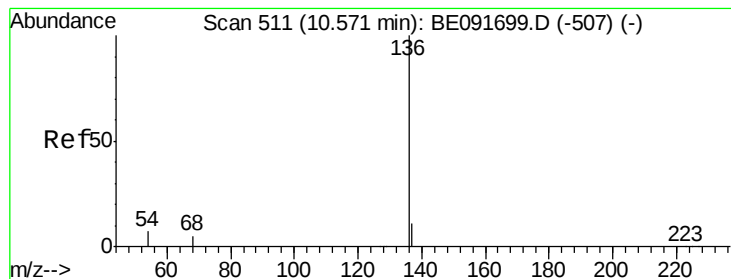


Abundance Ion 99.00 (98.70 to 99.70): BE091699.D (-246) (-)

Ion 42.00 (41.70 to 42.70): BE091699.D (-246) (-)

Ion 71.00 (70.70 to 71.70): BE091699.D (-246) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

Tgt Ion:136 Resp: 226456

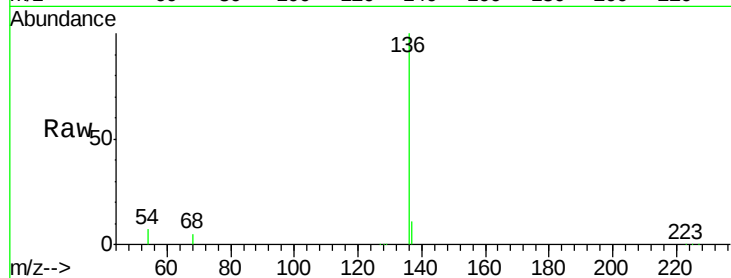
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 6.8 8.2 12.4#

68 5.0 6.2 9.4#

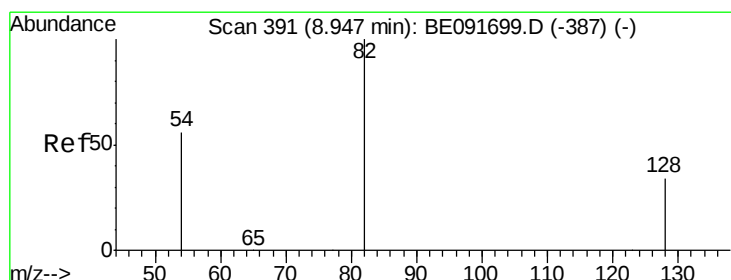
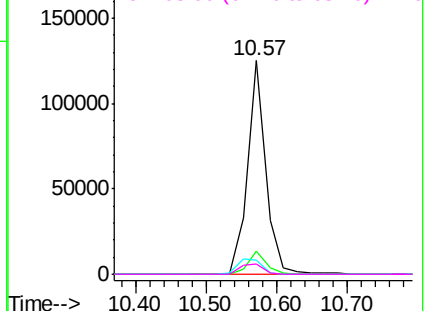
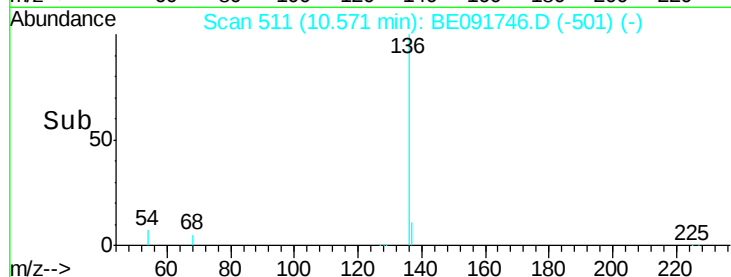


Abundance Ion 136.00 (135.70 to 136.70): E

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: 2.79 ng

RT: 8.95 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

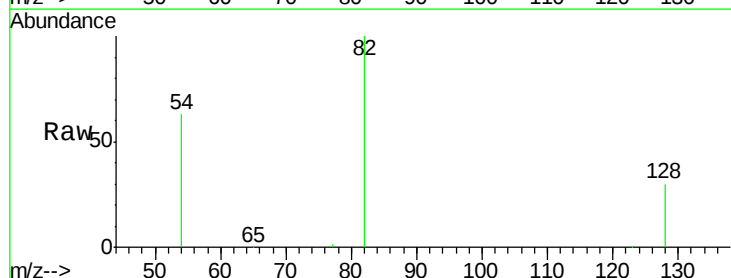
Tgt Ion: 82 Resp: 40842

Ion Ratio Lower Upper

82 100

128 30.2 25.4 38.0

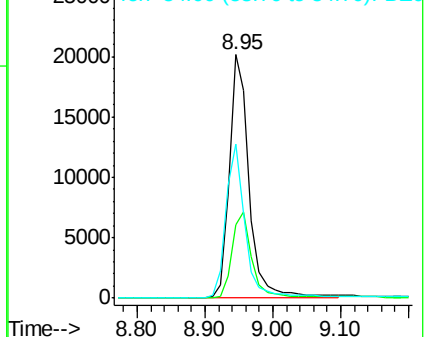
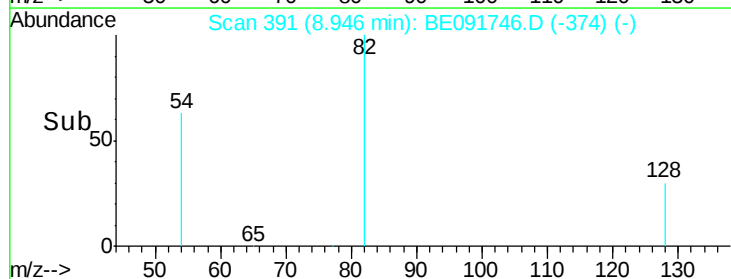
54 63.2 48.4 72.6

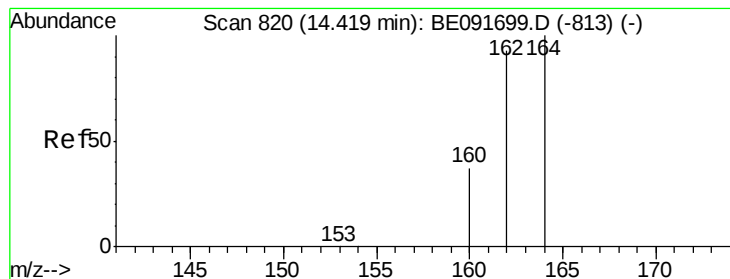


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.41 min Scan# 819

Delta R.T. -0.01 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

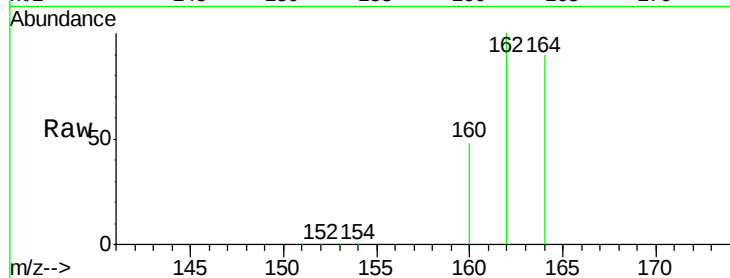
Tgt Ion:164 Resp: 130471

Ion Ratio Lower Upper

164 100

162 110.9 85.3 127.9

160 52.8 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

120000

100000

80000

60000

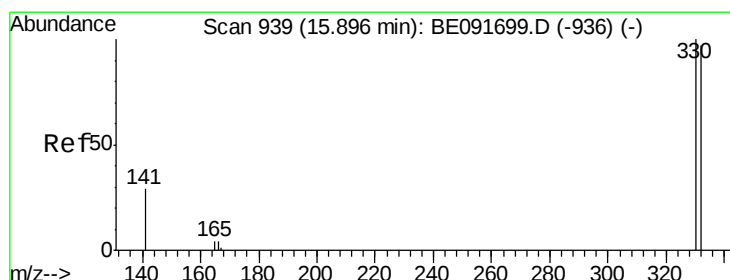
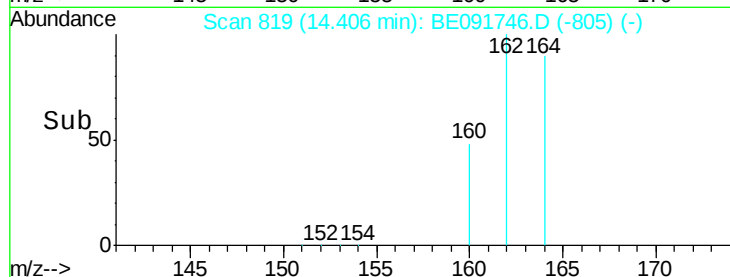
40000

20000

0

14.40 14.41

Time-->



#14

2,4,6-Tribromophenol

Concen: 4.67 ng

RT: 15.90 min Scan# 939

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

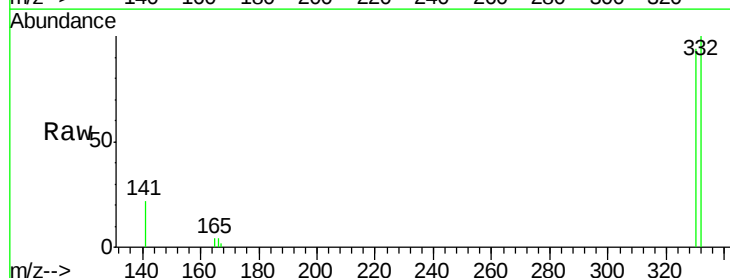
Tgt Ion:330 Resp: 22367

Ion Ratio Lower Upper

330 100

332 97.5 79.1 118.7

141 45.9 125.4 188.0#



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

15000

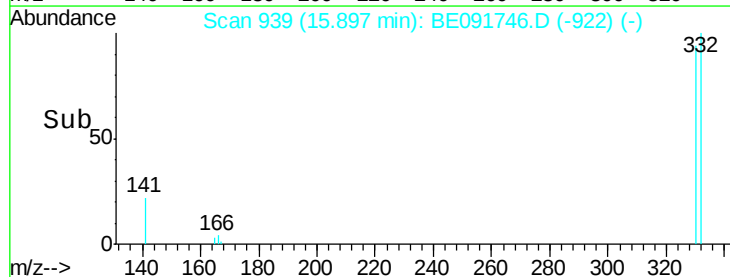
10000

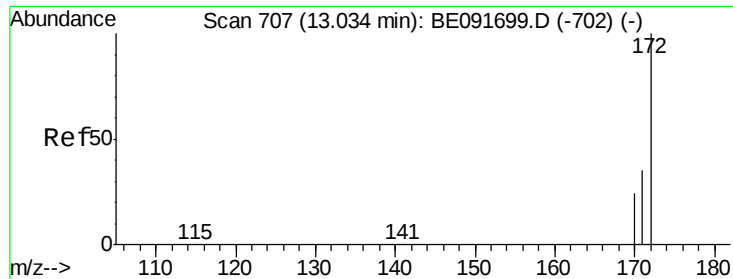
5000

0

15.80 15.90 16.00

Time-->

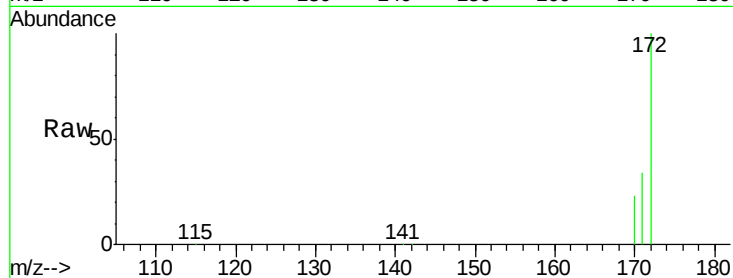




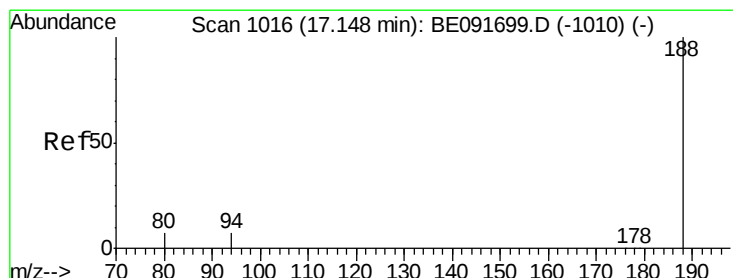
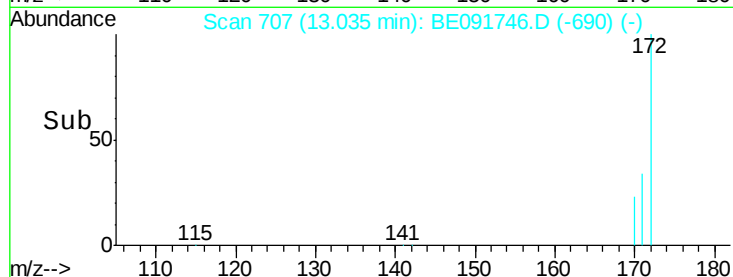
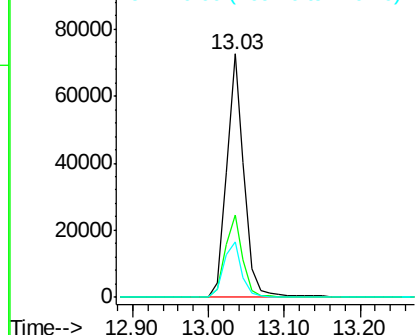
#15  
2-Fluorobiphenyl  
Concen: 3.18 ng  
RT: 13.03 min Scan# 707  
Delta R.T. 0.00 min  
Lab File: BE091746.D  
Acq: 3 May 2016 16:46

Instrument :  
BNA\_E  
ClientSampleId :  
TILCON-MH-SF-003

Tgt Ion:172 Resp: 117318  
Ion Ratio Lower Upper  
172 100  
171 34.0 28.8 43.2  
170 22.8 19.3 28.9

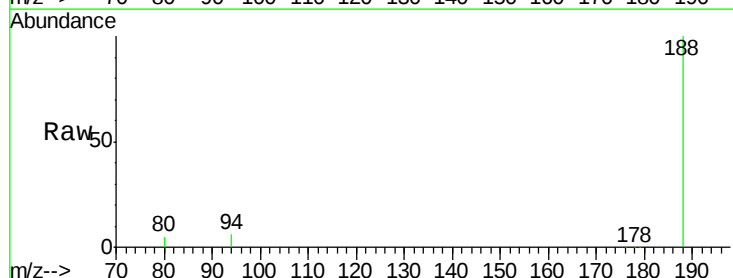


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

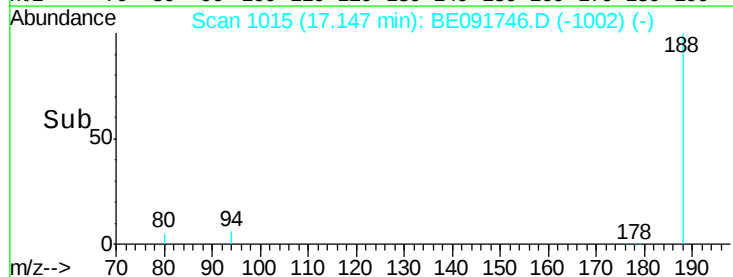
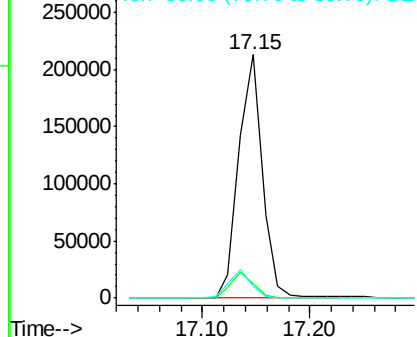


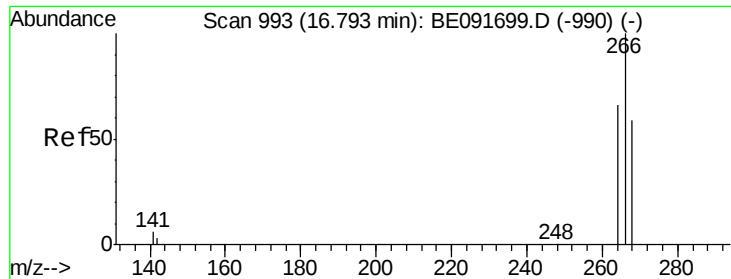
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.15 min Scan# 1015  
Delta R.T. -0.00 min  
Lab File: BE091746.D  
Acq: 3 May 2016 16:46

Tgt Ion:188 Resp: 324198  
Ion Ratio Lower Upper  
188 100  
94 5.8 8.7 13.1#  
80 5.1 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





#22

Pentachlorophenol

Concen: 0.17 ng

RT: 16.79 min Scan# 993

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

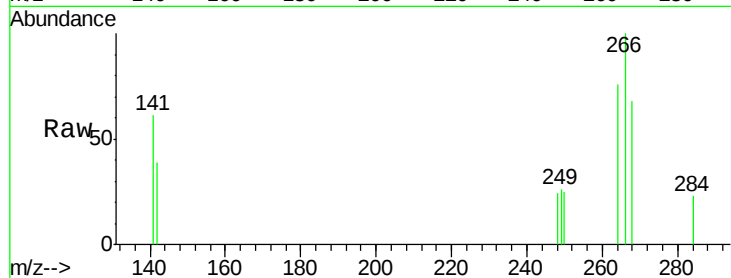
Tgt Ion:266 Resp: 493

Ion Ratio Lower Upper

266 100

268 68.3 58.2 87.2

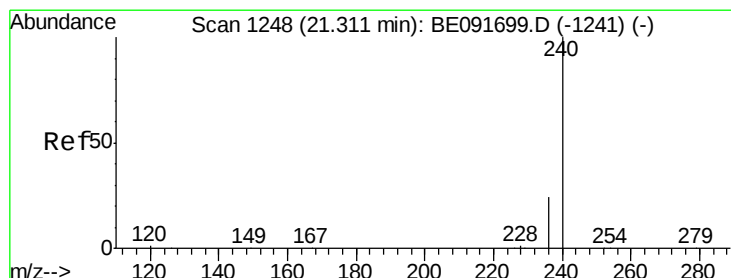
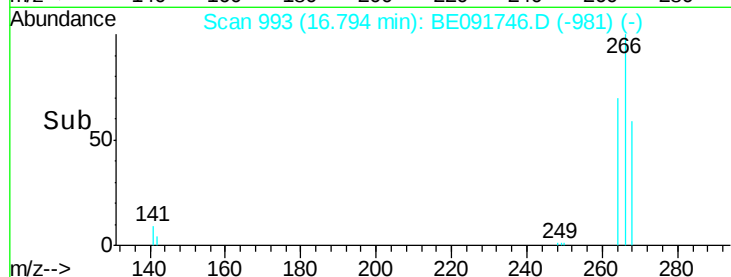
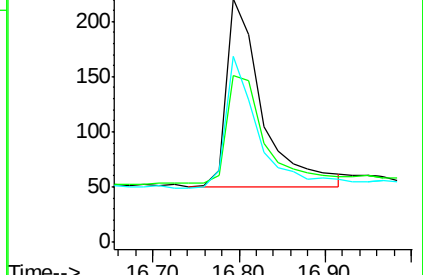
264 76.0 56.2 84.4



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

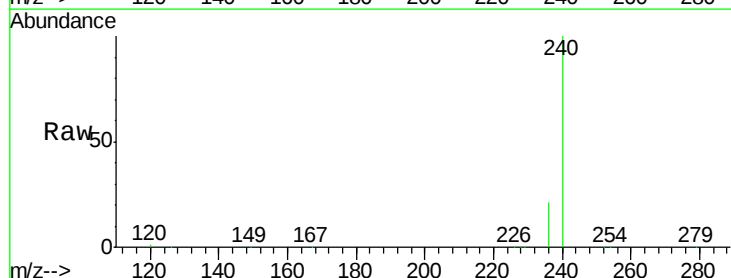
Tgt Ion:240 Resp: 365095

Ion Ratio Lower Upper

240 100

120 0.9 11.0 16.4#

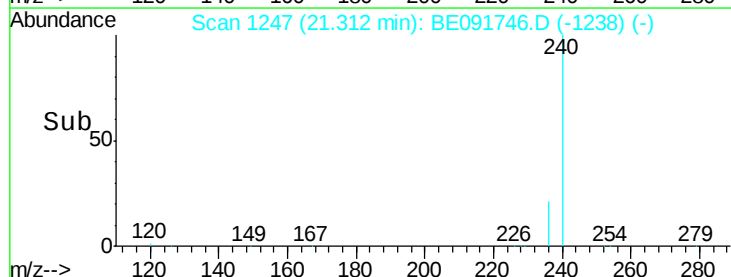
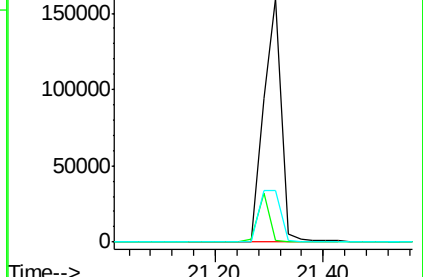
236 21.2 21.7 32.5#

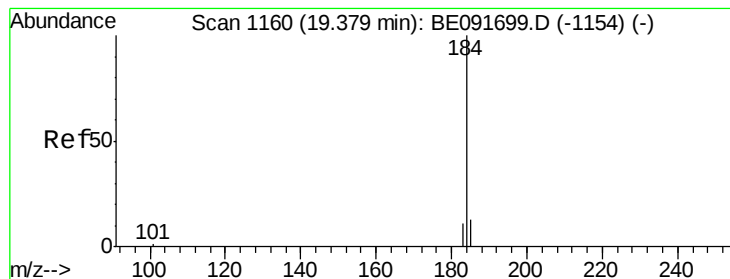


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.17 ng

RT: 19.42 min Scan# 1161

Delta R.T. 0.04 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

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ClientSampleId :

TILCON-MH-SF-003

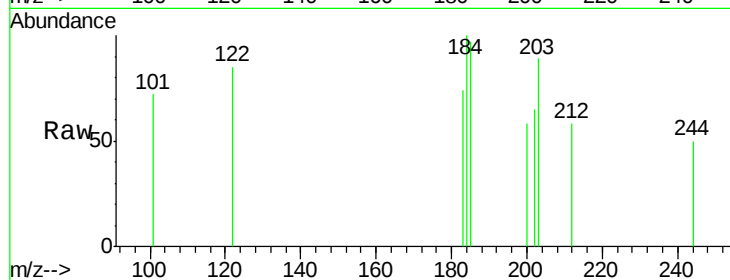
Tgt Ion:184 Resp: 287

Ion Ratio Lower Upper

184 100

185 97.1 22.3 33.5#

183 74.3 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

Time-->

19.20 19.40 19.60

19.42

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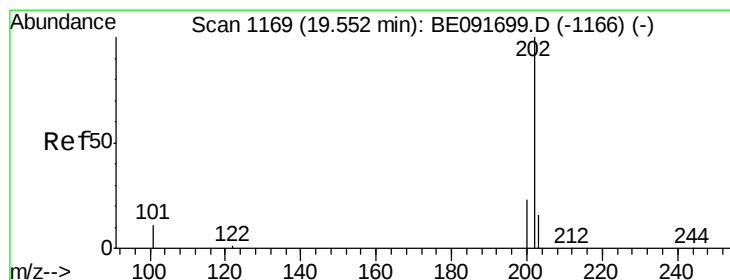
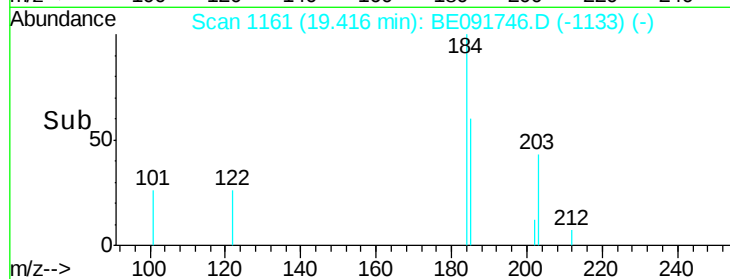
19.42

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#28

Pyrene

Concen: 0.03 ng

RT: 19.55 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

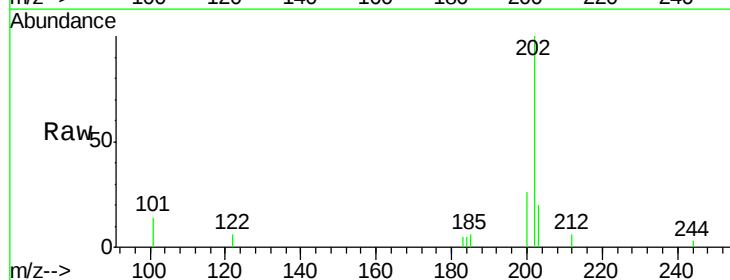
Tgt Ion:202 Resp: 2425

Ion Ratio Lower Upper

202 100

200 21.8 16.8 25.2

203 21.5 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

Time-->

19.50 19.60 19.70

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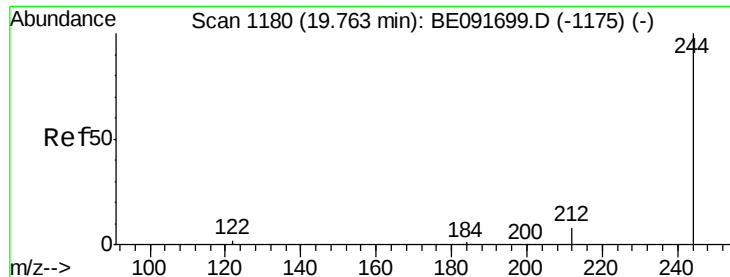
19.55

19.55

19.55

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19.55



#29

Terphenyl-d14

Concen: 3.44 ng

RT: 19.76 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

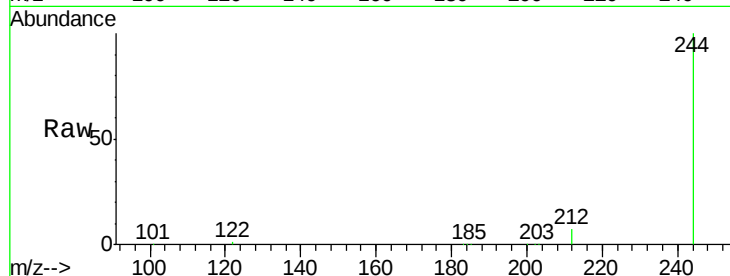
Tgt Ion:244 Resp: 195977

Ion Ratio Lower Upper

244 100

212 7.3 6.9 10.3

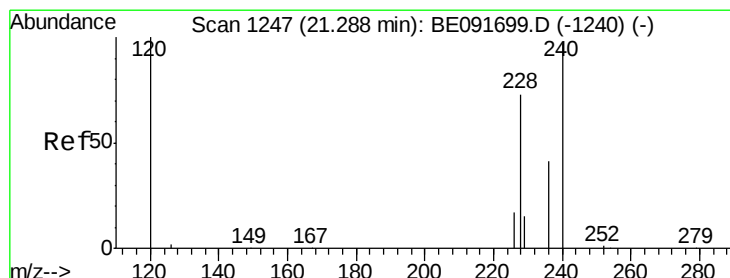
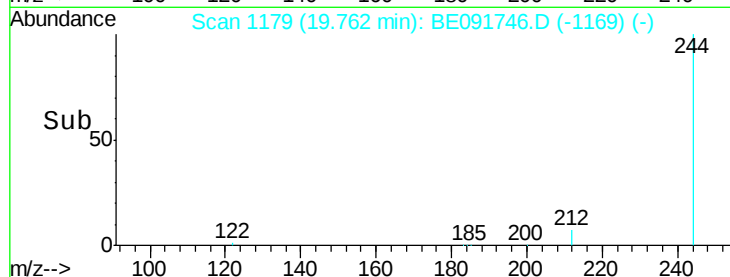
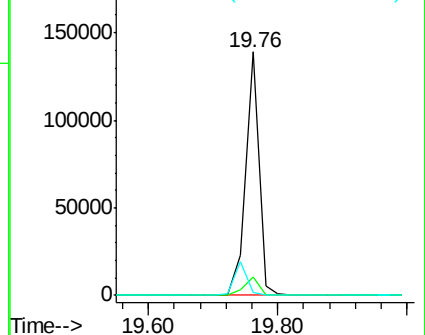
122 1.2 11.0 16.4#



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: 0.04 ng

RT: 21.29 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

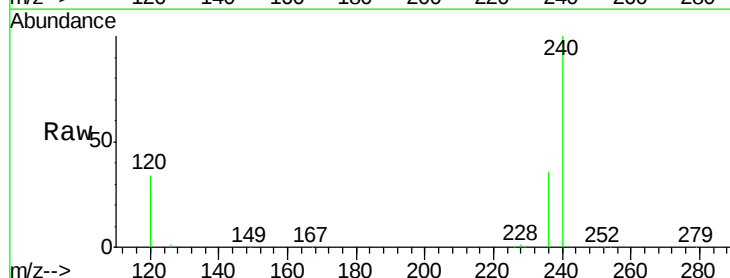
Tgt Ion:228 Resp: 3619

Ion Ratio Lower Upper

228 100

226 25.4 21.0 31.4

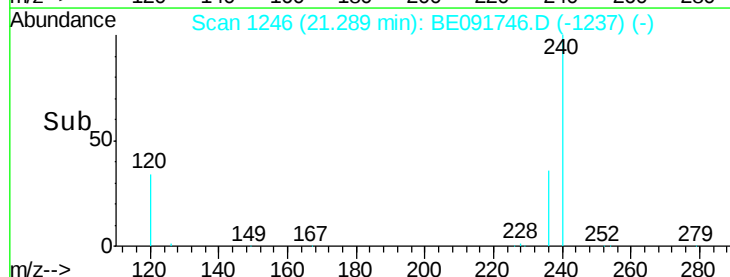
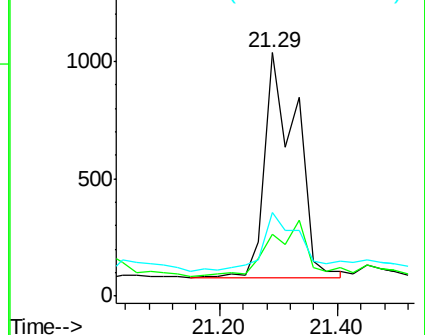
229 34.1 15.7 23.5#

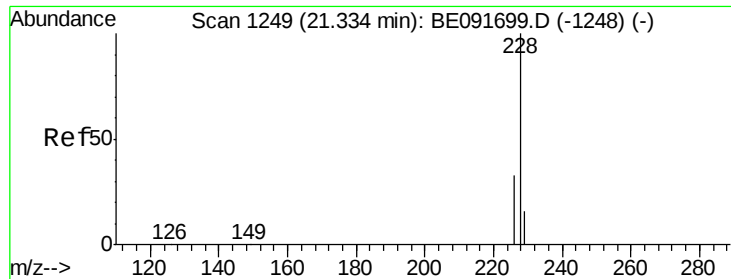


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Chrysene

Concen: 0.04 ng

RT: 21.29 min Scan# 1246

Delta R.T. -0.05 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

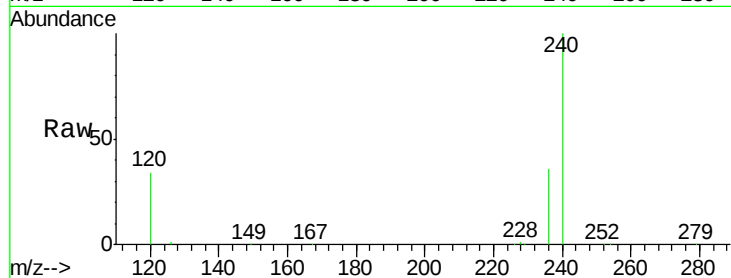
Tgt Ion:228 Resp: 3544

Ion Ratio Lower Upper

228 100

226 25.4 24.0 36.0

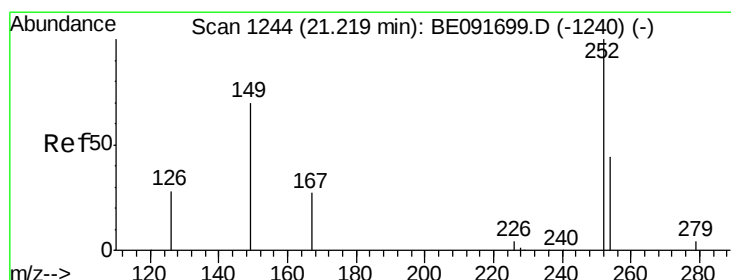
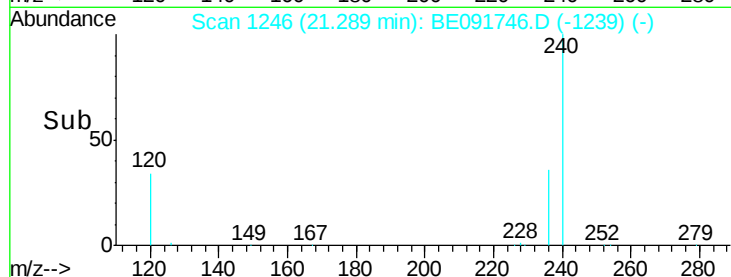
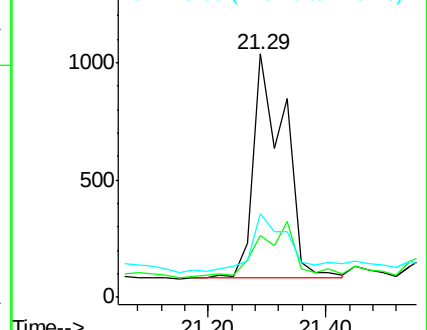
229 34.1 15.9 23.9#



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



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.11 ng

RT: 21.20 min Scan# 1242

Delta R.T. -0.02 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

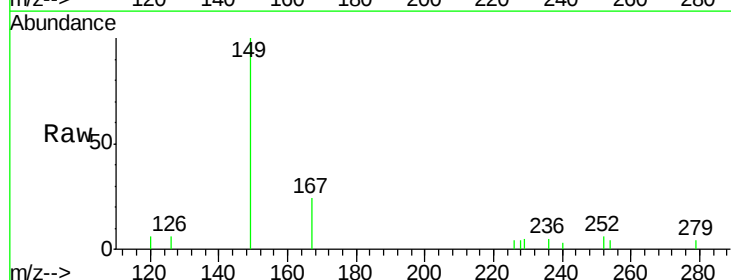
Tgt Ion:149 Resp: 3090

Ion Ratio Lower Upper

149 100

167 24.4 19.5 29.3

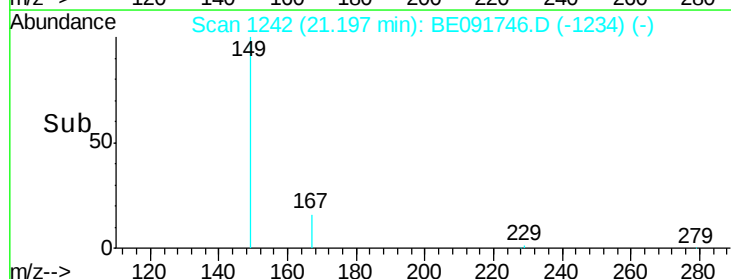
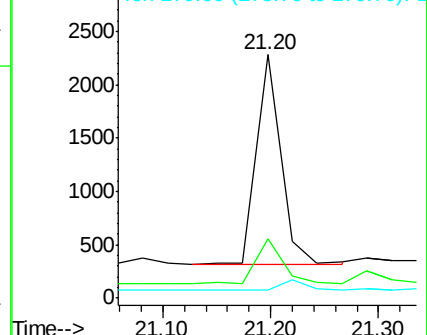
279 0.0 10.0 15.0#

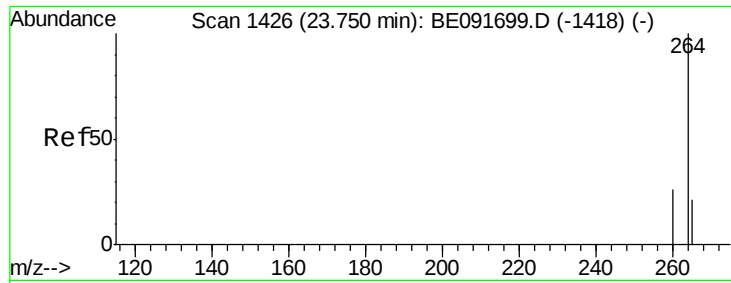


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

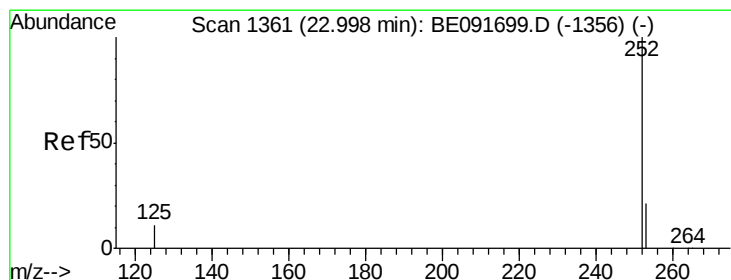
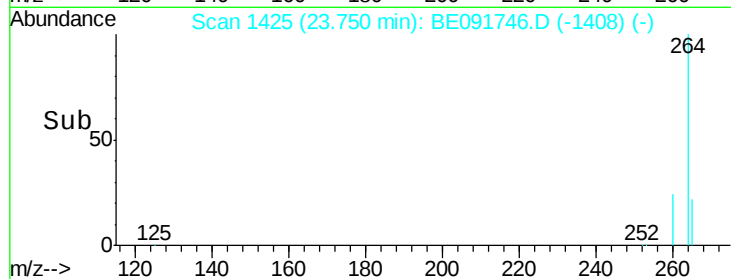
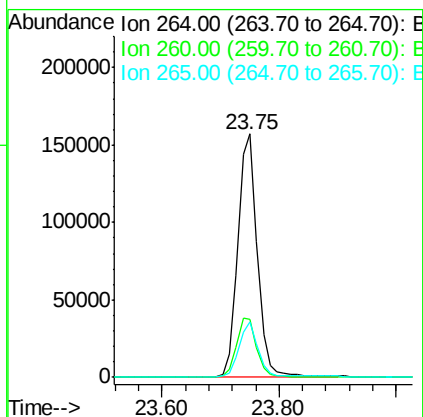
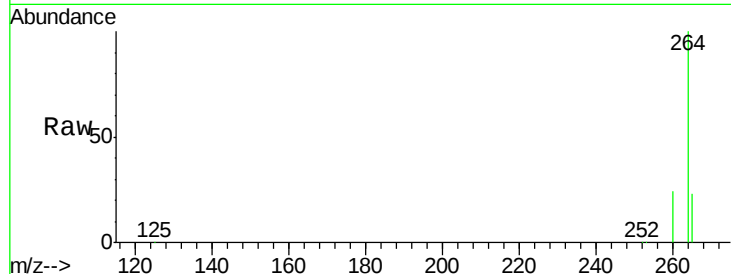




#35  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.75 min Scan# 1425  
 Delta R.T. 0.00 min  
 Lab File: BE091746.D  
 Acq: 3 May 2016 16:46

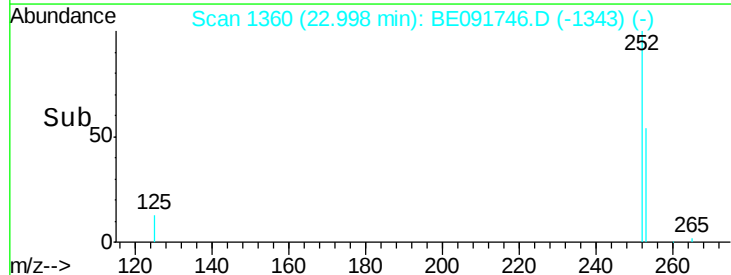
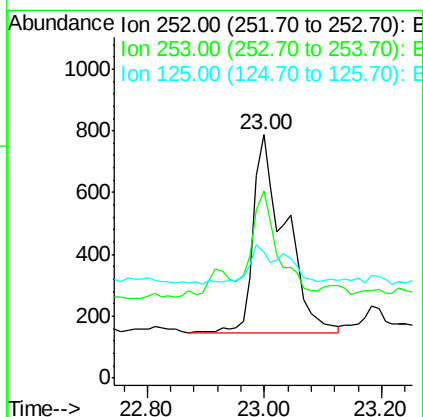
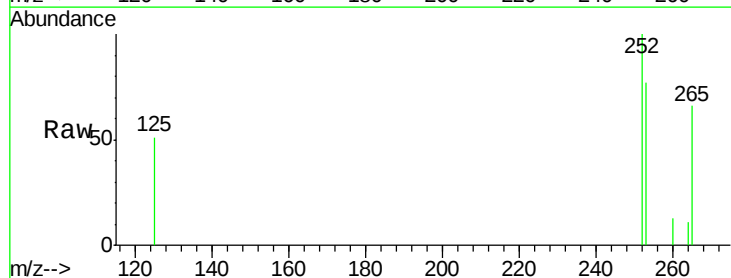
Instrument :  
 BNA\_E  
 ClientSampleId :  
 TILCON-MH-SF-003

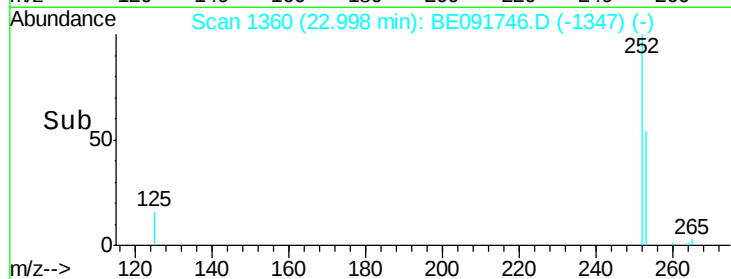
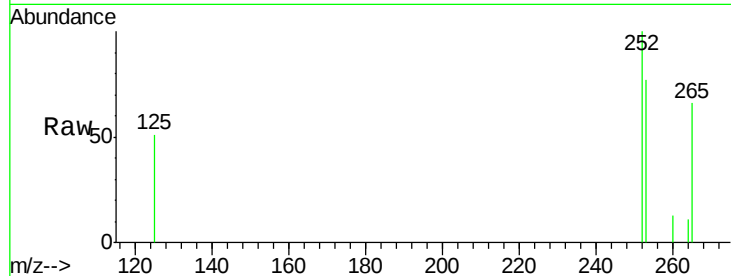
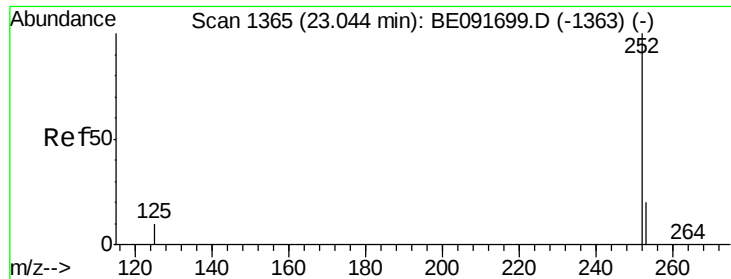
Tgt Ion: 264 Resp: 362582  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 20.0 30.0  
 265 22.7 17.5 26.3



#36  
 Benzo(b)fluoranthene  
 Concen: 0.03 ng  
 RT: 23.00 min Scan# 1360  
 Delta R.T. 0.00 min  
 Lab File: BE091746.D  
 Acq: 3 May 2016 16:46

Tgt Ion: 252 Resp: 2399  
 Ion Ratio Lower Upper  
 252 100  
 253 76.9 17.4 26.0#  
 125 51.4 10.2 15.2#





#37

Benzo(k)fluoranthene

Concen: 0.03 ng

RT: 23.00 min Scan# 1360

Delta R.T. -0.05 min

Lab File: BE091746.D

Acq: 3 May 2016 16:46

Instrument :

BNA\_E

ClientSampleId :

TILCON-MH-SF-003

Tgt Ion: 252 Resp: 2399

Ion Ratio Lower Upper

252 100

253 76.9 17.6 26.4#

125 51.4 9.9 14.9#

