

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE072815\  
 Data File : BE090279.D  
 Acq On : 28 Jul 2015 21:17  
 Operator : TP/IZ  
 Sample : MDL-06-S  
 Misc : MDL-SIM-SOIL-0.15PPM  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-06-S

Quant Time: Jul 29 04:48:39 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE072815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 29 04:46:54 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 777      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.36 | 136  | 3108     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.21 | 164  | 1933     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.94 | 188  | 4300     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.12 | 240  | 2460     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.42 | 264  | 1623     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 2098     | 0.51 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 18.97 | 212  | 4720     | 0.46 | ng/ul | 0.00     |

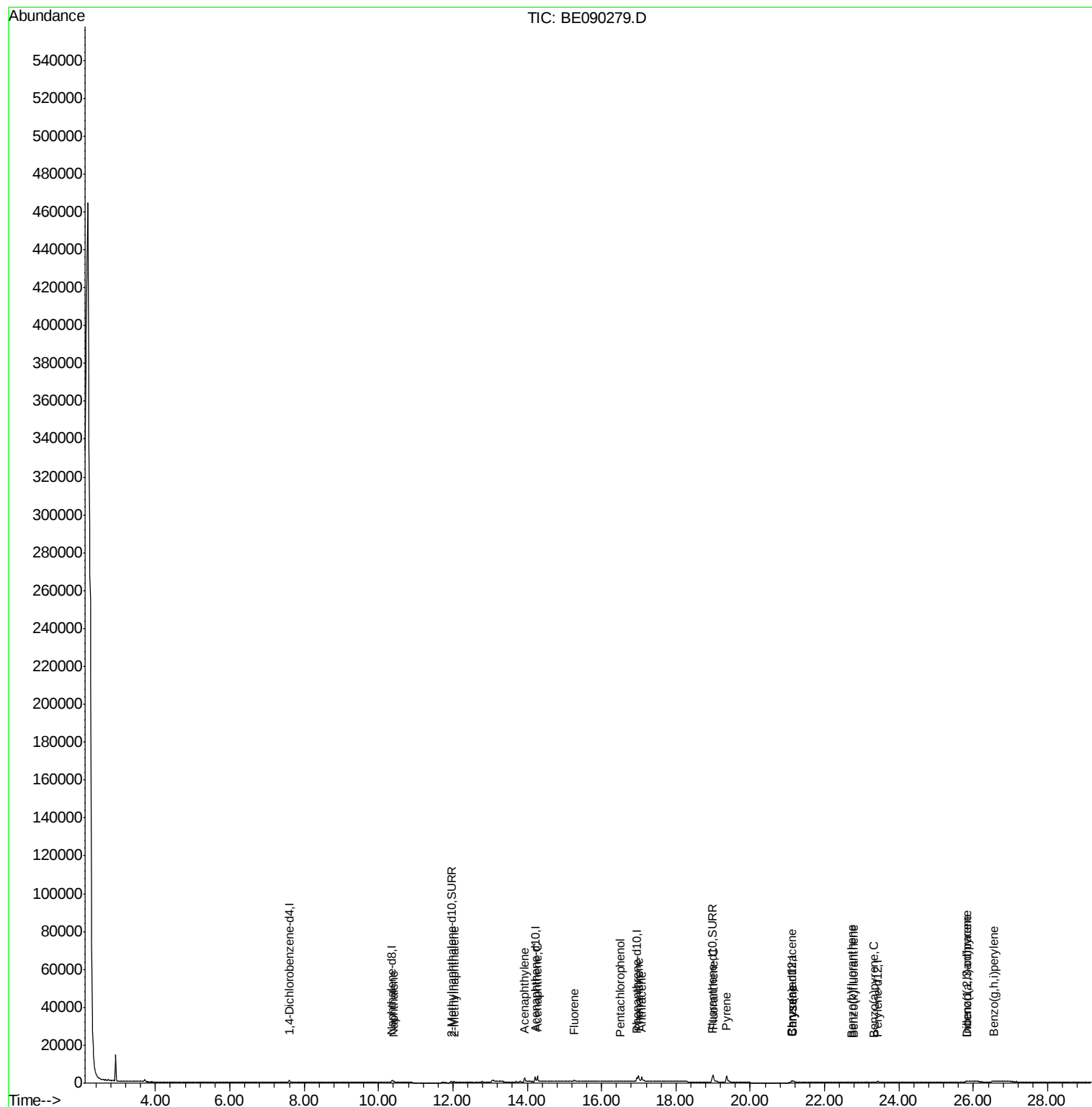
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.41 | 128  | 1016     | 0.14 | ng/ul# | 79     |
| 5) 2-Methylnaphthalene     | 12.03 | 142  | 608      | 0.13 | ng/ul  | 100    |
| 7) Acenaphthylene          | 13.93 | 152  | 4866     | 0.14 | ng/ul# | 89     |
| 8) Acenaphthene            | 14.27 | 153  | 3563     | 0.14 | ng/ul  | 99     |
| 9) Fluorene                | 15.26 | 166  | 885      | 0.13 | ng/ul# | 95     |
| 11) Pentachlorophenol      | 16.52 | 266  | 1        | 0.01 | ng/ul# | 1      |
| 12) Phenanthrene           | 16.99 | 178  | 5213     | 0.13 | ng/ul# | 89     |
| 13) Anthracene             | 17.07 | 178  | 5653     | 0.14 | ng/ul# | 85     |
| 15) Fluoranthene           | 19.00 | 202  | 6327     | 0.14 | ng/ul  | 92     |
| 17) Pyrene                 | 19.36 | 202  | 6526     | 0.17 | ng/ul# | 91     |
| 18) Benzo(a)anthracene     | 21.10 | 228  | 434      | 0.14 | ng/ul# | 80     |
| 19) Chrysene               | 21.15 | 228  | 1013     | 0.11 | ng/ul# | 86     |
| 21) Benzo(b)fluoranthene   | 22.73 | 252  | 239      | 0.12 | ng/ul# | 61     |
| 22) Benzo(k)fluoranthene   | 22.77 | 252  | 314      | 0.05 | ng/ul# | 59     |
| 23) Benzo(a)pyrene         | 23.31 | 252  | 110      | 0.04 | ng/ul# | 59     |
| 24) Indeno(1,2,3-cd)pyrene | 25.83 | 276  | 1049     | 0.12 | ng/ul# | 89     |
| 25) Dibenzo(a,h)anthracene | 25.84 | 278  | 94       | 0.09 | ng/ul# | 60     |
| 26) Benzo(g,h,i)perylene   | 26.55 | 276  | 1805     | 0.15 | ng/ul# | 57     |

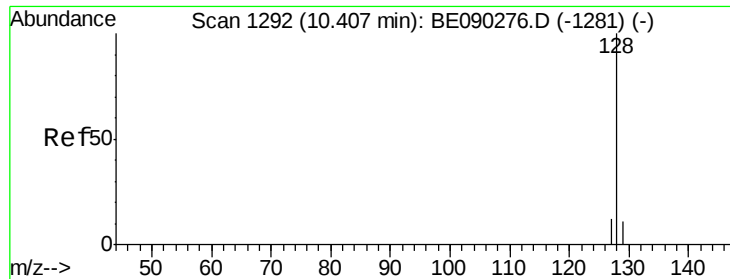
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 29 04:46:54 2015  
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#3

Naphthalene

Concen: 0.14 ng/ul

RT: 10.41 min Scan# 1292

Delta R.T. -0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampleId :

MDL-06-S

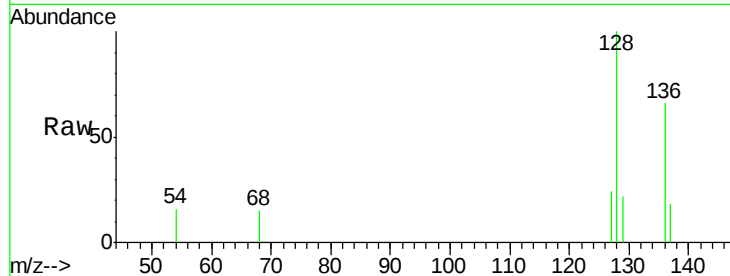
Tgt Ion:128 Resp: 1016

Ion Ratio Lower Upper

128 100

129 21.6 10.4 15.6#

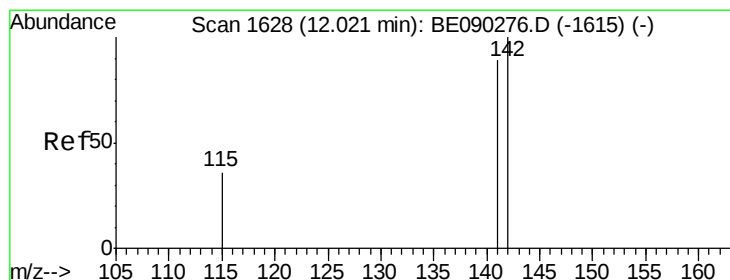
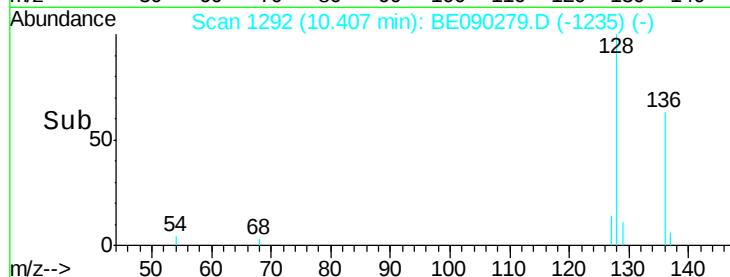
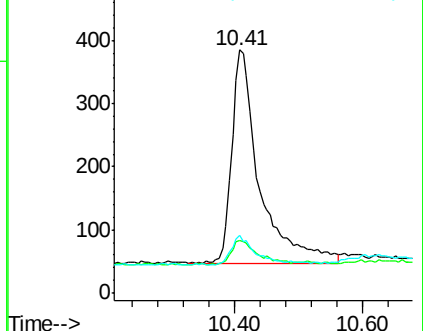
127 23.9 12.1 18.1#



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



#5

2-Methylnaphthalene

Concen: 0.13 ng/ul

RT: 12.03 min Scan# 1630

Delta R.T. 0.01 min

Lab File: BE090279.D

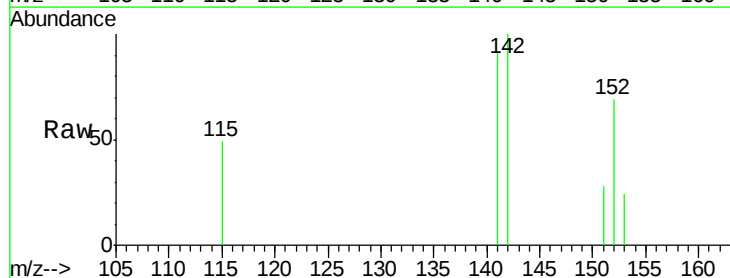
Acq: 28 Jul 2015 21:17

Tgt Ion:142 Resp: 608

Ion Ratio Lower Upper

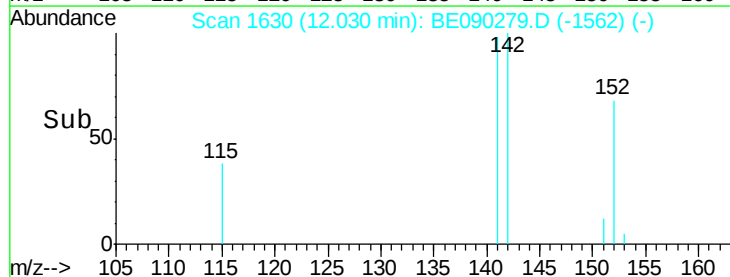
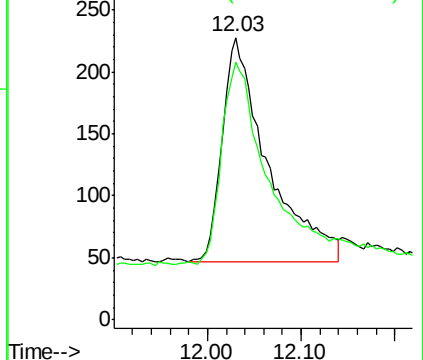
142 100

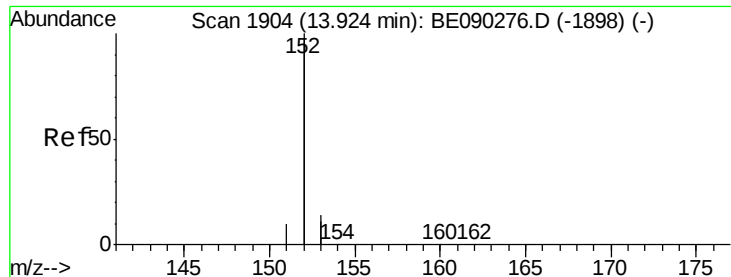
141 91.1 73.0 109.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.14 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. 0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampled :

MDL-06-S

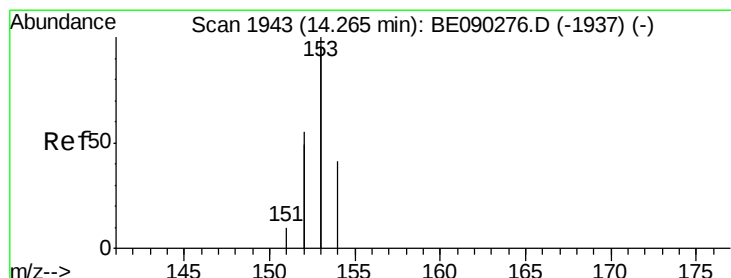
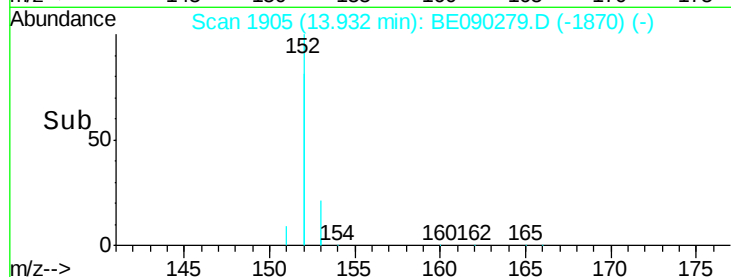
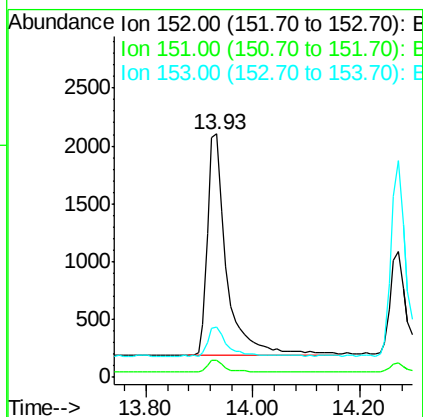
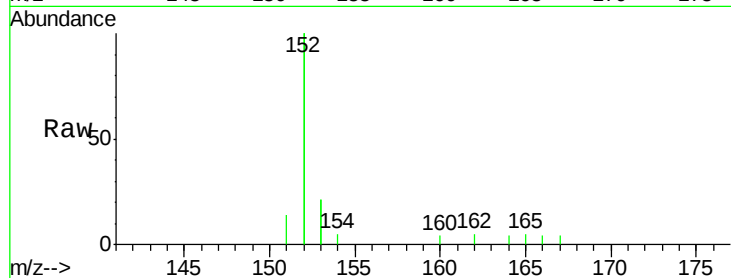
Tgt Ion:152 Resp: 4866

Ion Ratio Lower Upper

152 100

151 6.8 4.3 6.5#

153 20.6 11.9 17.9#



#8

Acenaphthene

Concen: 0.14 ng/ul

RT: 14.27 min Scan# 1944

Delta R.T. 0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

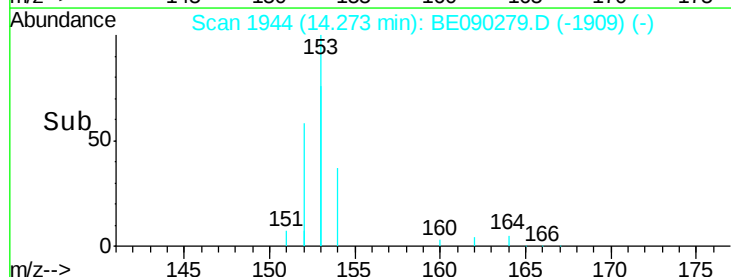
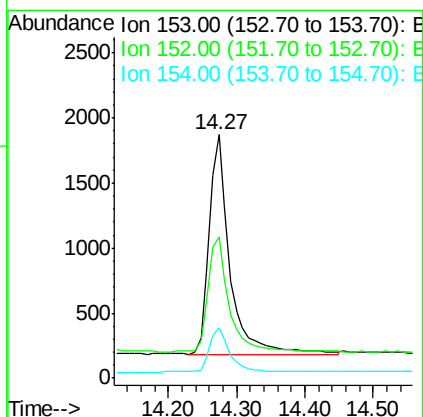
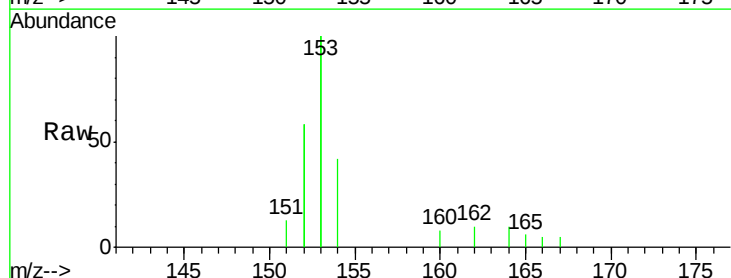
Tgt Ion:153 Resp: 3563

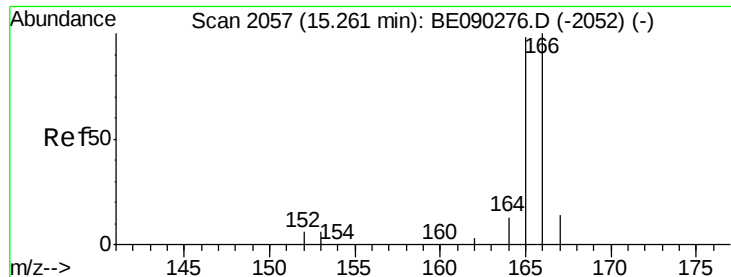
Ion Ratio Lower Upper

153 100

152 58.2 45.7 68.5

154 20.8 16.4 24.6





#9

Fluorene

Concen: 0.13 ng/ul

RT: 15.26 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampleId :

MDL-06-S

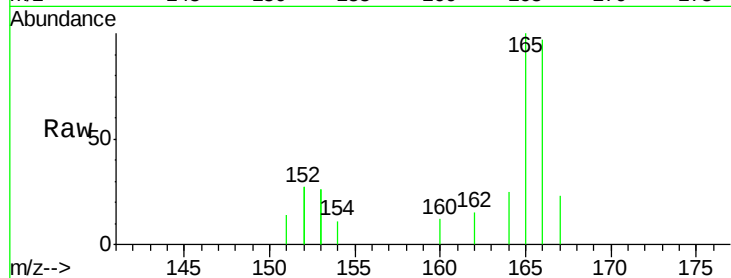
Tgt Ion:166 Resp: 885

Ion Ratio Lower Upper

166 100

165 102.7 80.3 120.5

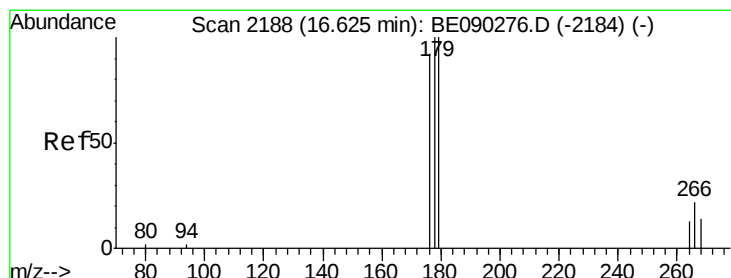
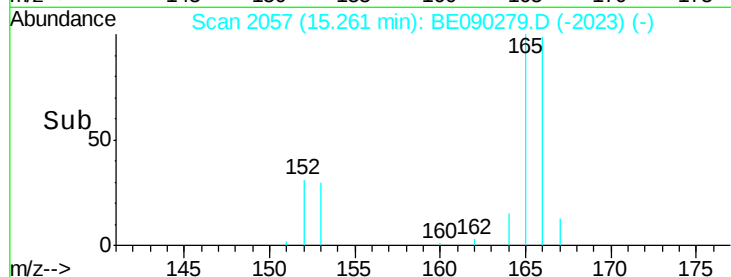
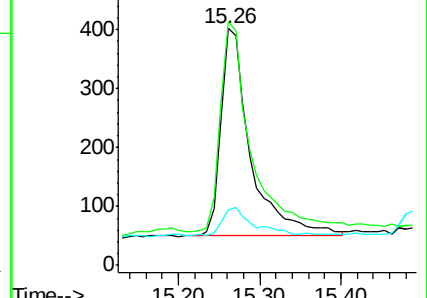
167 23.6 12.4 18.6#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#11

Pentachlorophenol

Concen: 0.01 ng/ul

RT: 16.52 min Scan# 2179

Delta R.T. -0.11 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

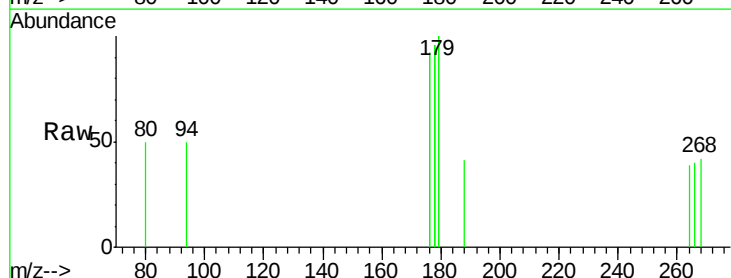
Tgt Ion:266 Resp: 1

Ion Ratio Lower Upper

266 100

264 0.0 43.4 65.0#

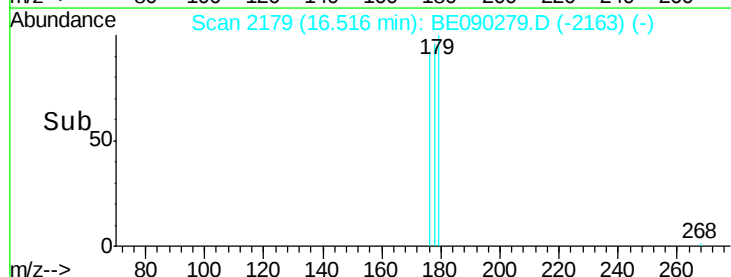
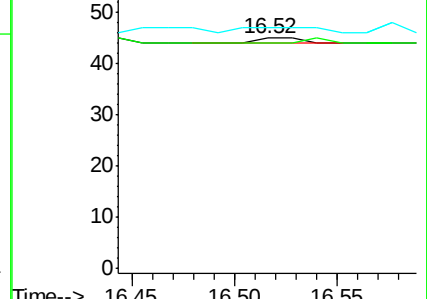
268 300.0 44.6 66.8#

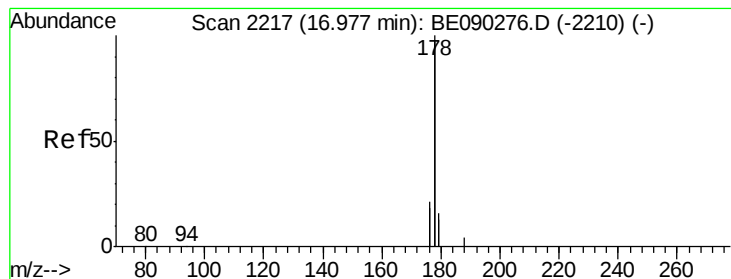


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.13 ng/ul

RT: 16.99 min Scan# 2218

Delta R.T. 0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampleId :

MDL-06-S

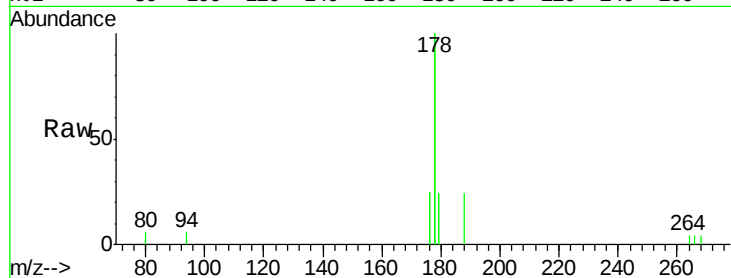
Tgt Ion:178 Resp: 5213

Ion Ratio Lower Upper

178 100

176 24.9 17.3 25.9

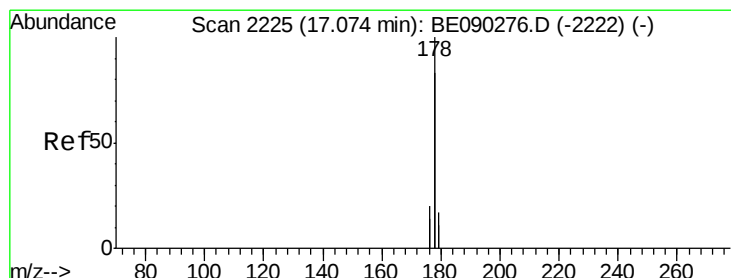
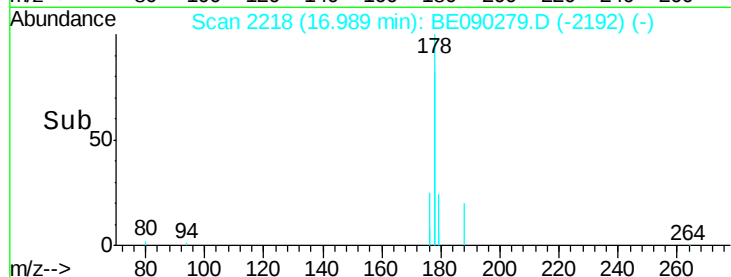
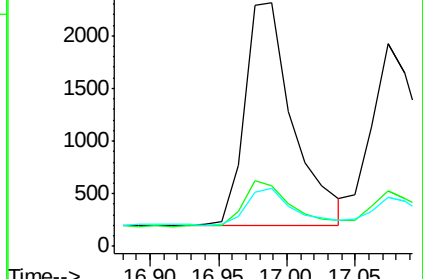
179 23.7 13.1 19.7#



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



#13

Anthracene

Concen: 0.14 ng/ul

RT: 17.07 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

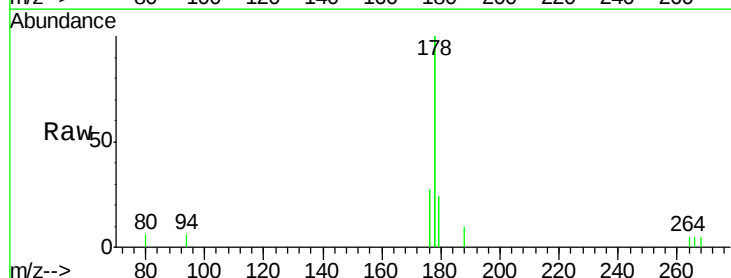
Tgt Ion:178 Resp: 5653

Ion Ratio Lower Upper

178 100

176 27.5 16.4 24.6#

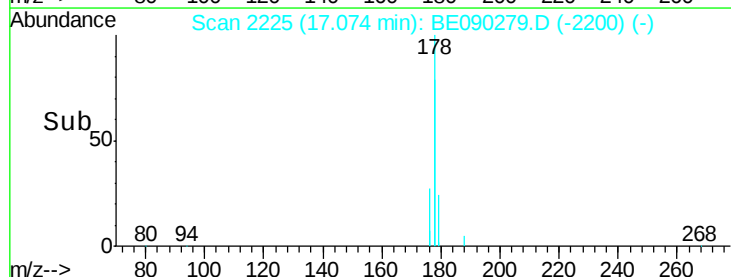
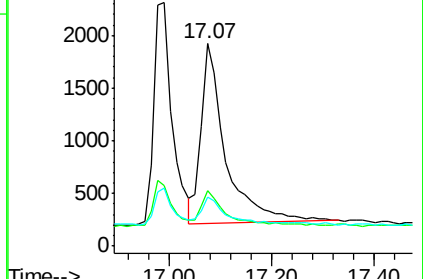
179 24.3 13.9 20.9#

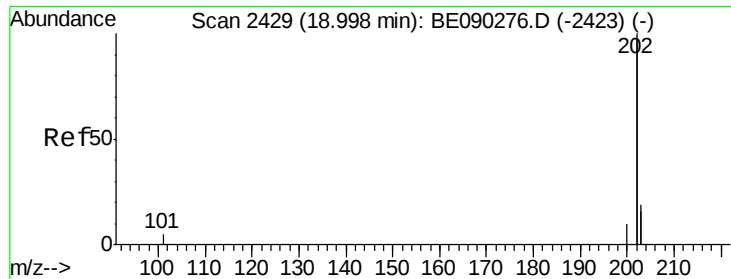


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.14 ng/ul

RT: 19.00 min Scan# 2430

Delta R.T. 0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampleId :

MDL-06-S

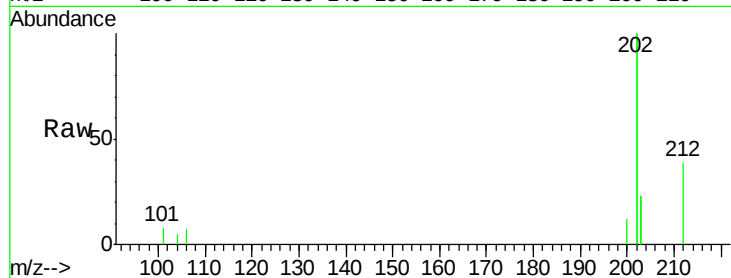
Tgt Ion:202 Resp: 6327

Ion Ratio Lower Upper

202 100

101 4.2 0.0 22.9

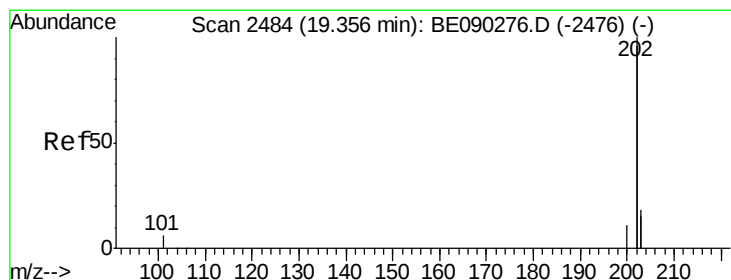
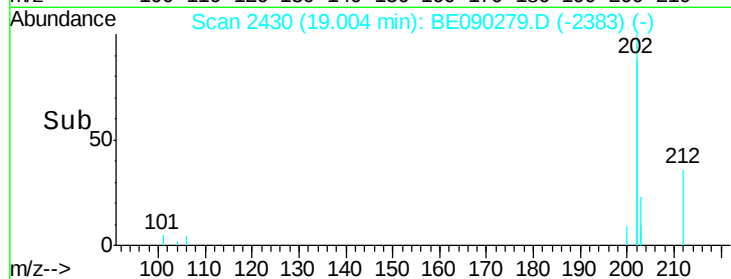
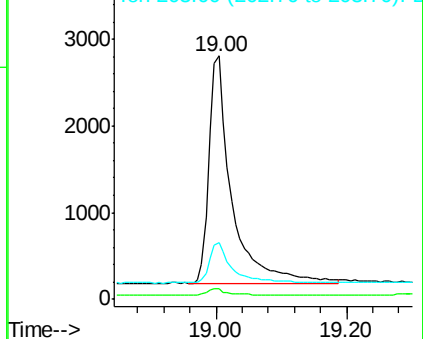
203 23.1 0.0 39.0



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



#17

Pyrene

Concen: 0.17 ng/ul

RT: 19.36 min Scan# 2485

Delta R.T. 0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

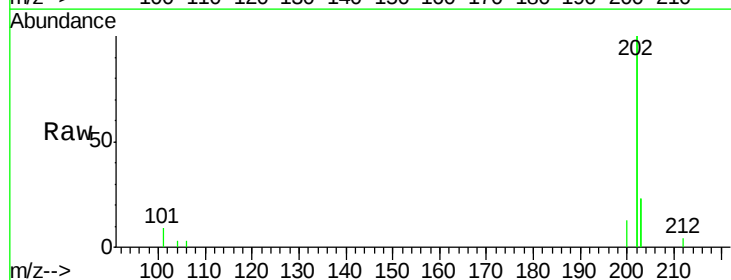
Tgt Ion:202 Resp: 6526

Ion Ratio Lower Upper

202 100

200 6.3 4.5 6.7

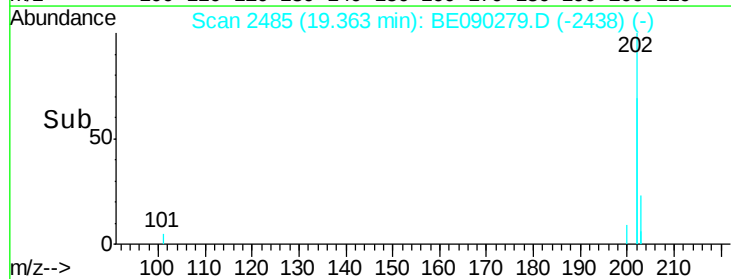
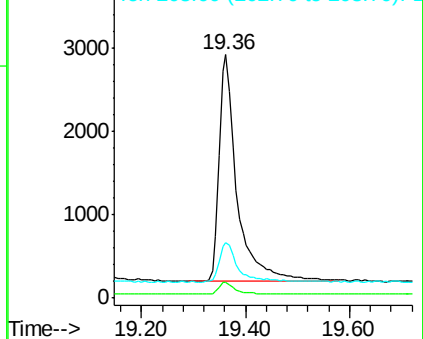
203 22.7 14.4 21.6#

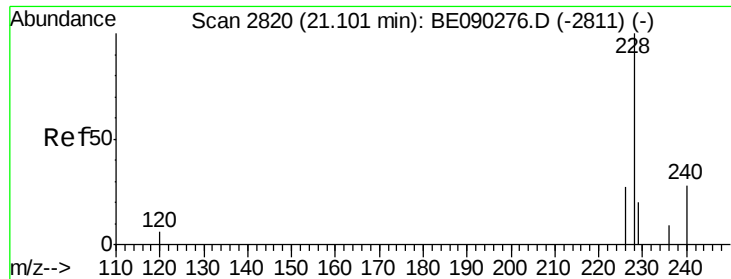


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.14 ng/ul

RT: 21.10 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

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ClientSampleId :

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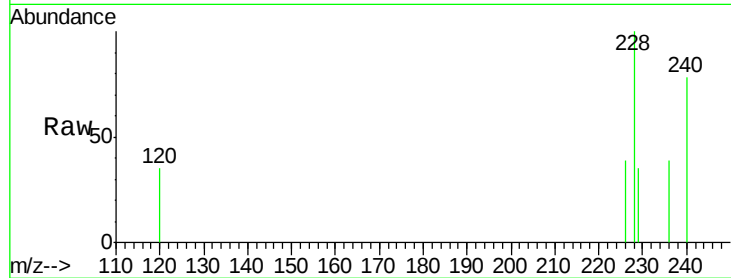
Tgt Ion:228 Resp: 434

Ion Ratio Lower Upper

228 100

226 39.2 24.6 36.8#

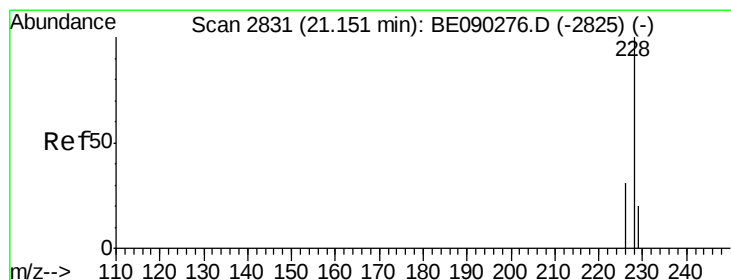
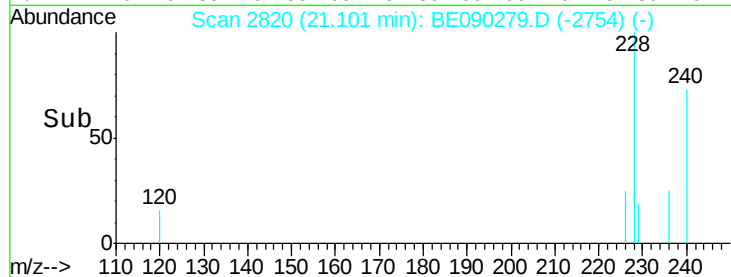
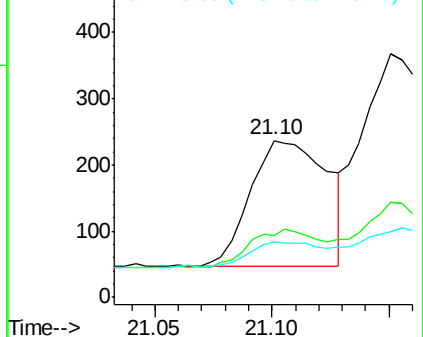
229 35.0 17.9 26.9#



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



#19

Chrysene

Concen: 0.11 ng/ul

RT: 21.15 min Scan# 2831

Delta R.T. -0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

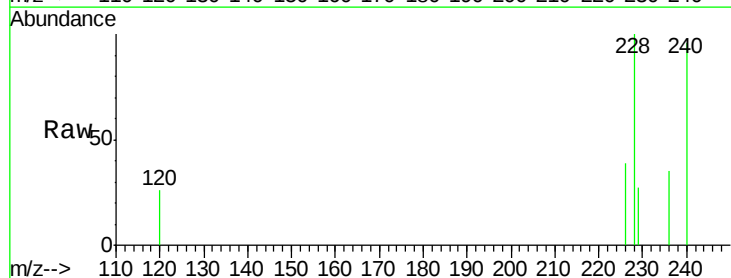
Tgt Ion:228 Resp: 1013

Ion Ratio Lower Upper

228 100

226 38.9 25.0 37.4#

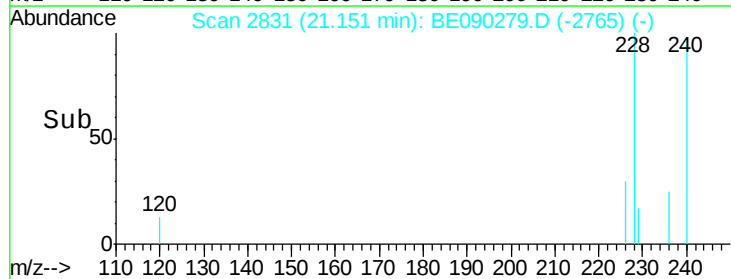
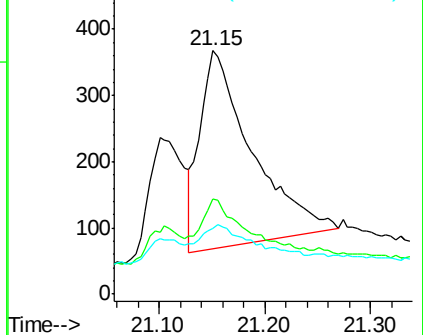
229 27.2 16.6 24.8#

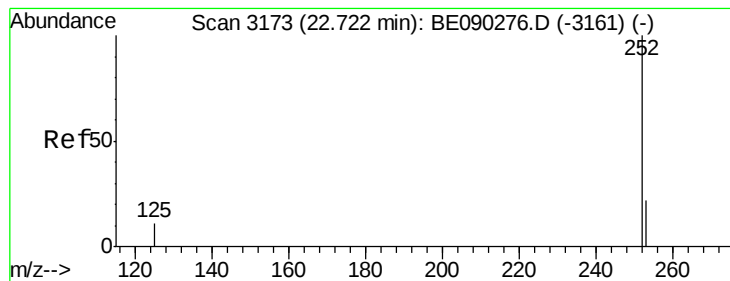


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.12 ng/u1

RT: 22.73 min Scan# 3173

Delta R.T. 0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampleId :

MDL-06-S

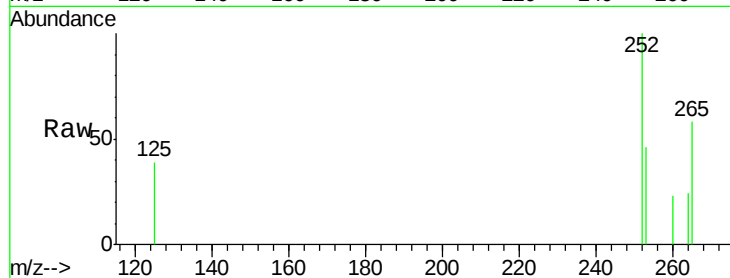
Tgt Ion:252 Resp: 239

Ion Ratio Lower Upper

252 100

253 45.5 0.0 57.2

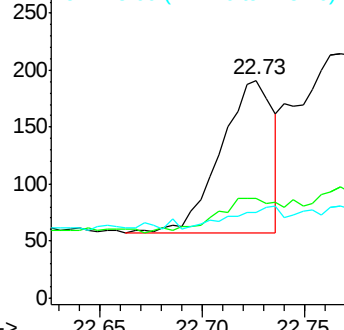
125 39.3 0.0 34.6#



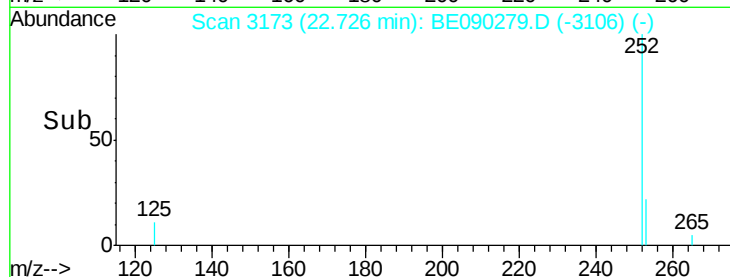
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#22

Benzo(k)fluoranthene

Concen: 0.05 ng/u1

RT: 22.77 min Scan# 3182

Delta R.T. 0.00 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

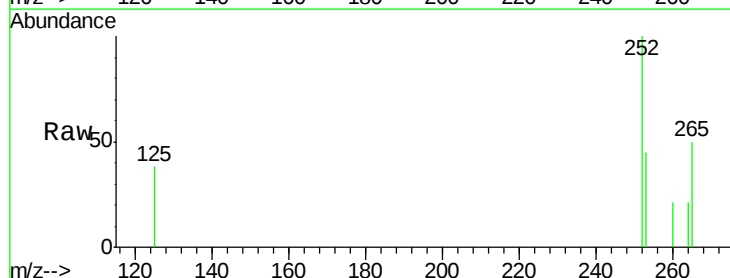
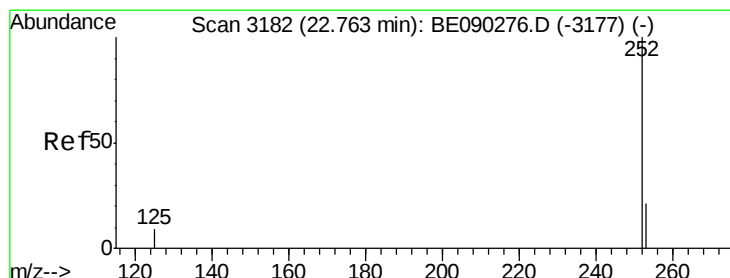
Tgt Ion:252 Resp: 314

Ion Ratio Lower Upper

252 100

253 45.3 21.3 31.9#

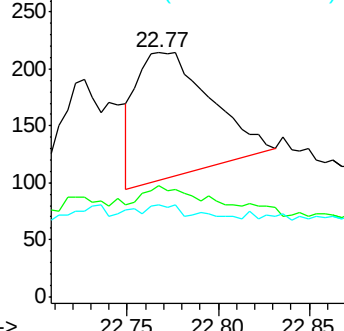
125 37.9 13.3 19.9#



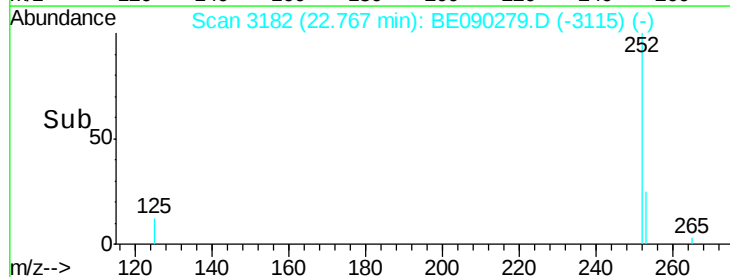
Abundance Ion 252.00 (251.70 to 252.70): E

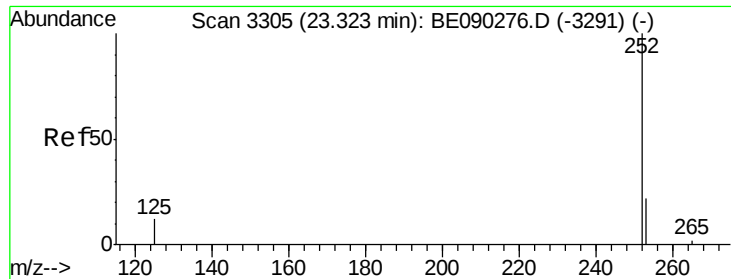
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#23

Benzo(a)pyrene

Concen: 0.04 ng/ul

RT: 23.31 min Scan# 3302

Delta R.T. -0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

Instrument :

BNA\_E

ClientSampleId :

MDL-06-S

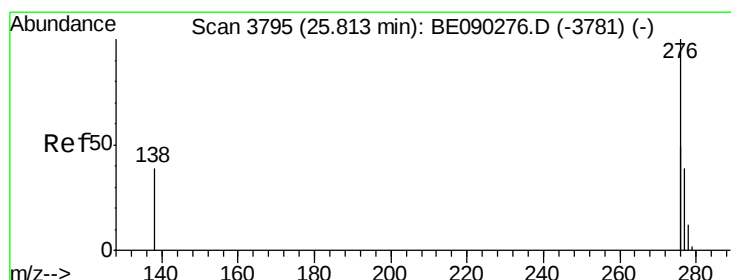
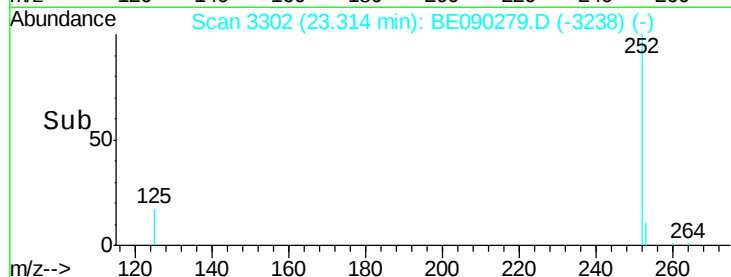
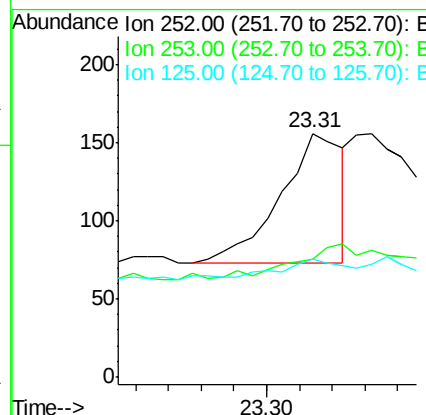
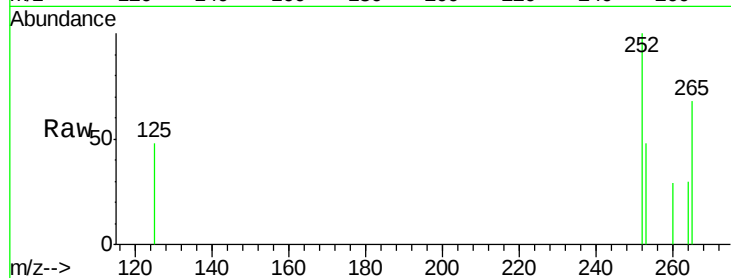
Tgt Ion: 252 Resp: 110

Ion Ratio Lower Upper

252 100

253 48.1 24.9 37.3#

125 48.1 17.5 26.3#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.12 ng/ul

RT: 25.83 min Scan# 3796

Delta R.T. 0.01 min

Lab File: BE090279.D

Acq: 28 Jul 2015 21:17

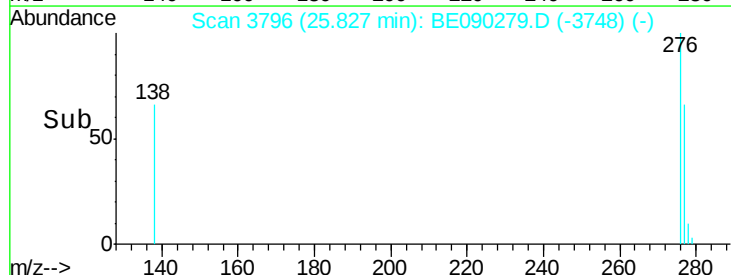
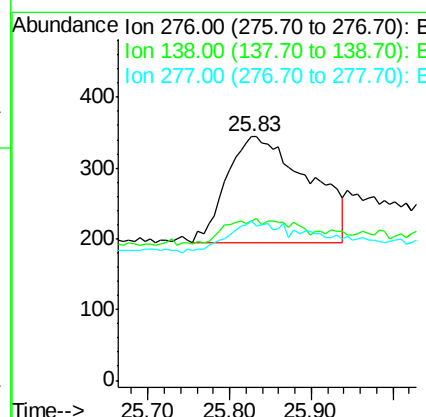
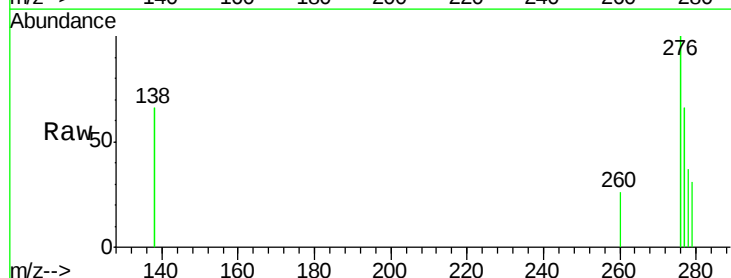
Tgt Ion: 276 Resp: 1049

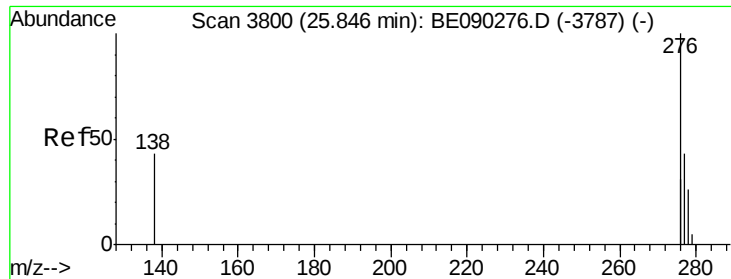
Ion Ratio Lower Upper

276 100

138 7.1 13.5 20.3#

277 21.4 16.4 24.6

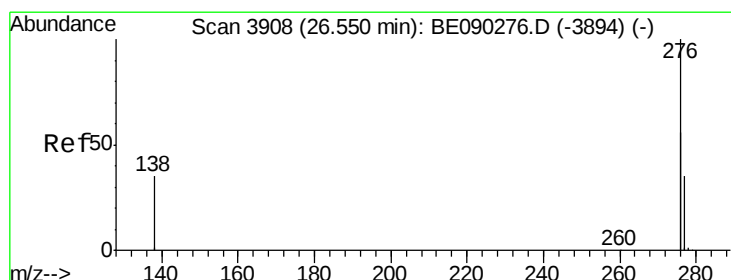
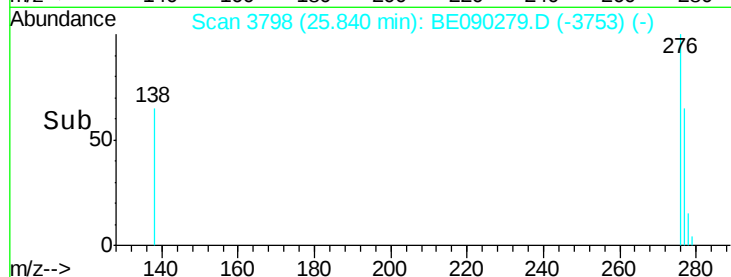
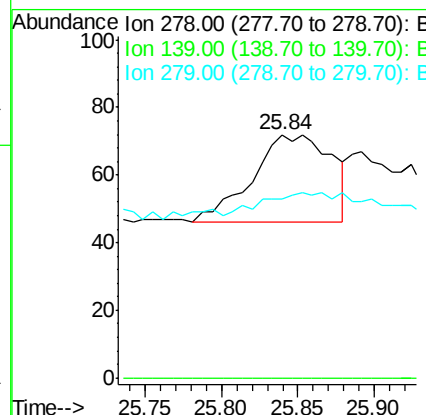
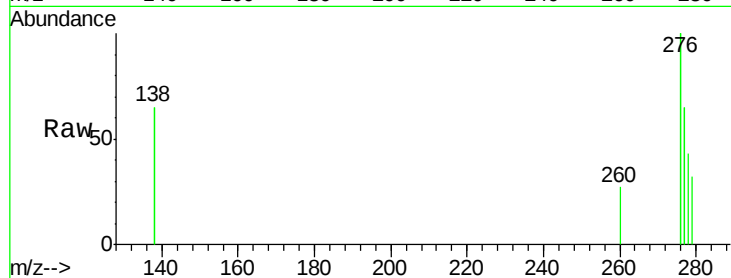




#25  
Dibenzo(a,h)anthracene  
Concen: 0.09 ng/ul  
RT: 25.84 min Scan# 3798  
Delta R.T. -0.01 min  
Lab File: BE090279.D  
Acq: 28 Jul 2015 21:17

Instrument :  
BNA\_E  
ClientSampleId :  
MDL-06-S

Tgt Ion: 278 Resp: 94  
Ion Ratio Lower Upper  
278 100  
139 0.0 0.0 0.0  
279 73.6 37.4 56.0#



#26  
Benzo(g,h,i)perylene  
Concen: 0.15 ng/ul  
RT: 26.55 min Scan# 3907  
Delta R.T. 0.00 min  
Lab File: BE090279.D  
Acq: 28 Jul 2015 21:17

Tgt Ion: 276 Resp: 1805  
Ion Ratio Lower Upper  
276 100  
277 53.7 25.5 38.3#  
138 55.0 23.9 35.9#

