

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE013015\  
 Data File : BEMDL1W.D  
 Acq On : 31 Jan 2015 10:17  
 Operator : TP/IZ  
 Sample : MDL-08-W  
 Misc : MDL-WATER-0.1/0.2  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Feb 02 03:52:55 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE013015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 31 05:05:18 2015  
 Response via : Initial Calibration

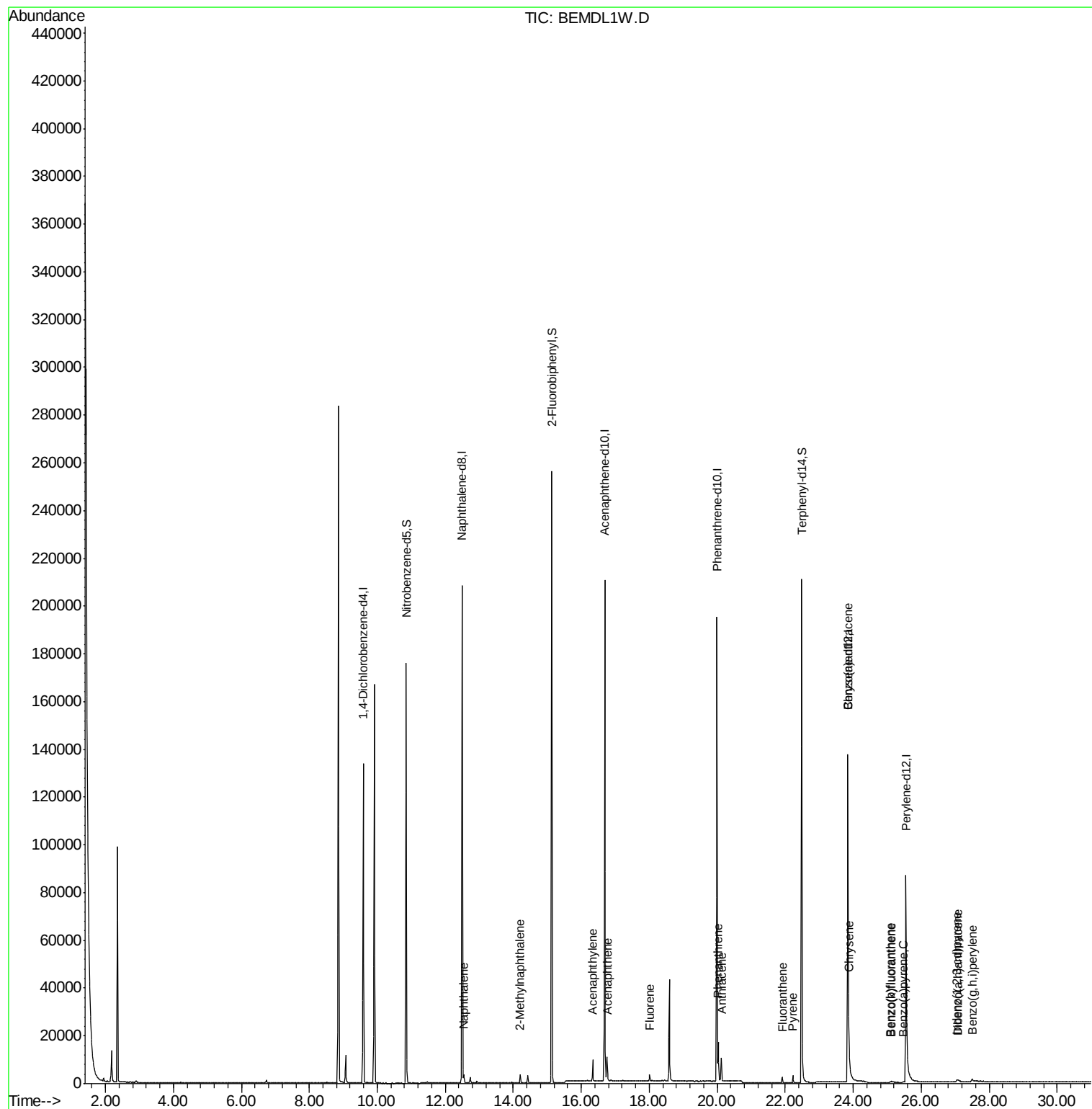
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 9.58  | 152  | 54288    | 5.00      | ng    | 0.00     |
| 2) Naphthalene-d8           | 12.49 | 136  | 228227   | 5.00      | ng    | 0.00     |
| 6) Acenaphthene-d10         | 16.69 | 164  | 121966   | 5.00      | ng    | -0.01    |
| 11) Phenanthrene-d10        | 19.99 | 188  | 196192   | 5.00      | ng    | 0.00     |
| 16) Chrysene-d12            | 23.84 | 240  | 145784   | 5.00      | ng    | 0.00     |
| 22) Perylene-d12            | 25.56 | 264  | 123434   | 5.00      | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 3) Nitrobenzene-d5          | 10.85 | 82   | 119320   | 7.90      | ng    | 0.00     |
| 7) 2-Fluorobiphenyl         | 15.13 | 172  | 221607   | 6.90      | ng    | 0.00     |
| 18) Terphenyl-d14           | 22.48 | 244  | 186638   | 8.55      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       | Qvalue   |
| 4) Naphthalene              | 12.54 | 128  | 3813     | 0.07      | ng    | 95       |
| 5) 2-Methylnaphthalene      | 14.20 | 142  | 2234     | 0.07      | ng    | 97       |
| 8) Acenaphthylene           | 16.34 | 152  | 12253    | 0.06      | ng    | 98       |
| 9) Acenaphthene             | 16.76 | 154  | 1985     | 0.06      | ng    | 78       |
| 10) Fluorene                | 18.02 | 166  | 2206     | 0.06      | ng    | 96       |
| 12) Pentachlorophenol       | 19.66 | 266  | 221      | Below Cal |       | 94       |
| 13) Phenanthrene            | 20.03 | 178  | 13866    | 0.07      | ng    | 98       |
| 14) Anthracene              | 20.12 | 178  | 10574    | 0.06      | ng    | 98       |
| 15) Fluoranthene            | 21.91 | 202  | 2179     | 0.05      | ng    | 99       |
| 17) Pyrene                  | 22.23 | 202  | 2390     | 0.06      | ng    | 99       |
| 19) Benzo(a)anthracene      | 23.83 | 228  | 6634     | 0.05      | ng    | # 91     |
| 20) Chrysene                | 23.87 | 228  | 11255    | 0.08      | ng    | # 95     |
| 21) Indeno(1,2,3-cd)pyrene  | 27.05 | 276  | 1628     | 0.01      | ng    | # 87     |
| 23) Benzo(b)fluoranthene    | 25.10 | 252  | 430      | 0.20      | ng    | # 68     |
| 24) Benzo(k)fluoranthene    | 25.12 | 252  | 559      | 0.02      | ng    | # 72     |
| 25) Benzo(a)pyrene          | 25.48 | 252  | 462      | 0.14      | ng    | # 50     |
| 26) Dibenzo(a,h)anthracene  | 27.08 | 278  | 288      | 0.14      | ng    | # 45     |
| 27) Benzo(g,h,i)perylene    | 27.49 | 276  | 2276     | 0.02      | ng    | # 61     |

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

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QLast Update : Sat Jan 31 05:05:18 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.58 min Scan# 1794

Delta R.T. -0.00 min

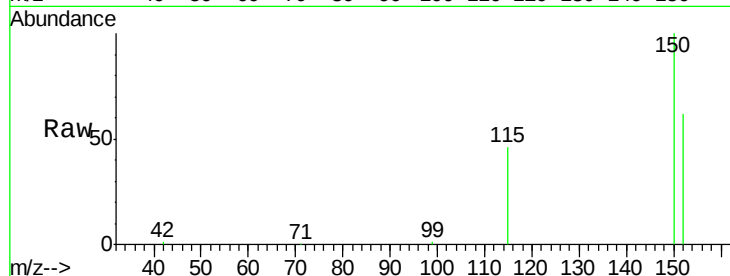
Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :



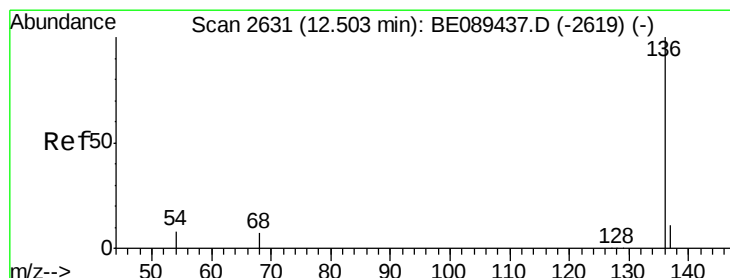
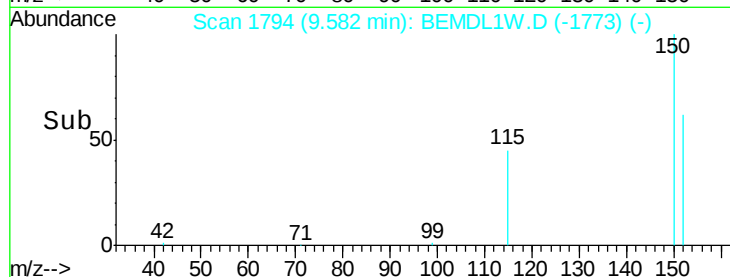
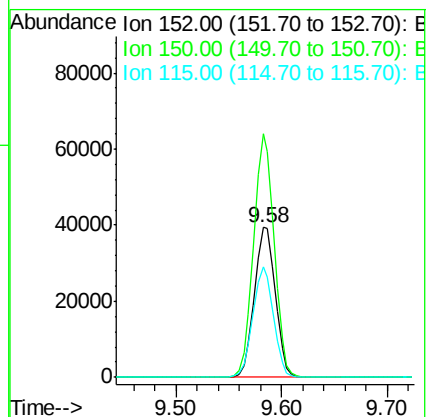
Tgt Ion:152 Resp: 54288

Ion Ratio Lower Upper

152 100

150 162.4 127.2 190.8

115 74.0 57.5 86.3



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.49 min Scan# 2629

Delta R.T. -0.01 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

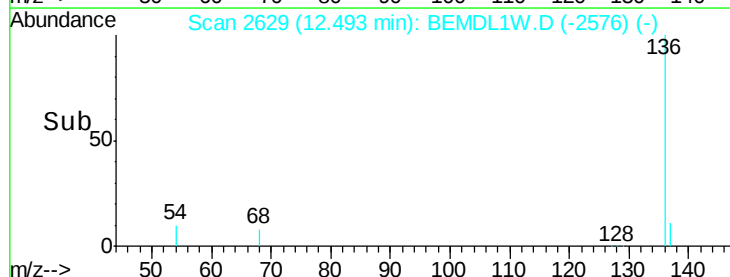
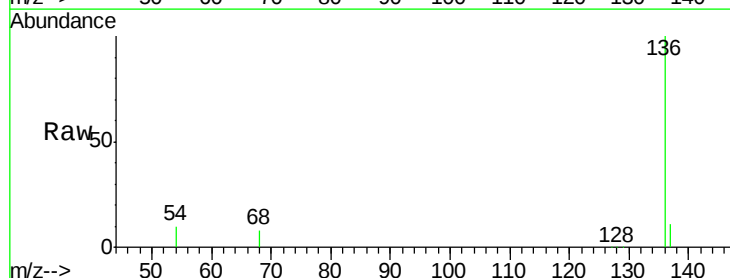
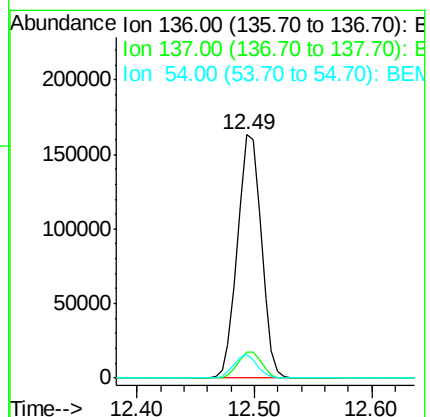
Tgt Ion:136 Resp: 228227

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

54 9.6 6.6 10.0





#3

Nitrobenzene-d5

Concen: 7.90 ng

RT: 10.85 min Scan# 2223

Delta R.T. -0.00 min

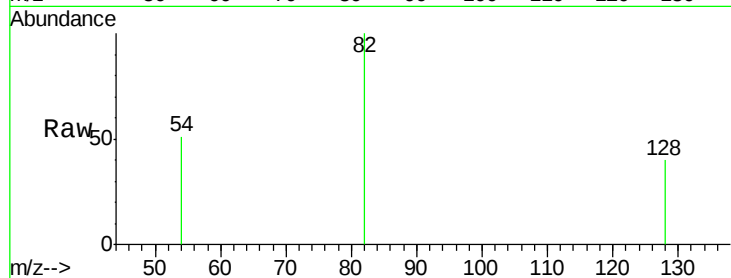
Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :



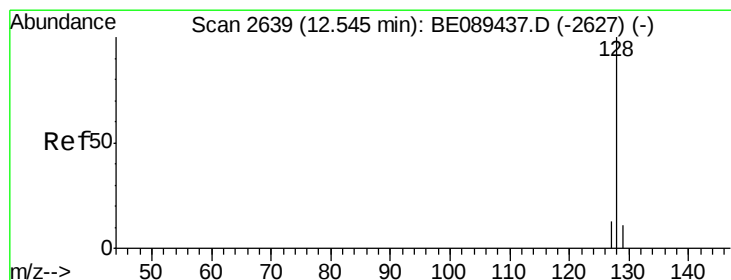
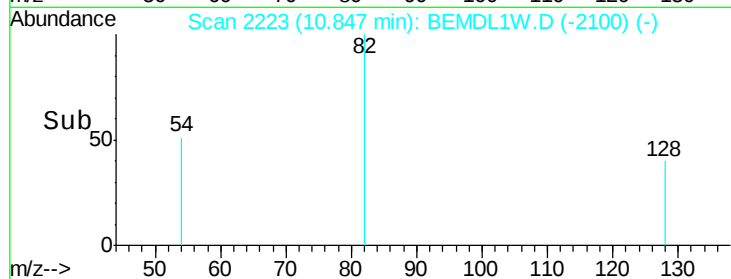
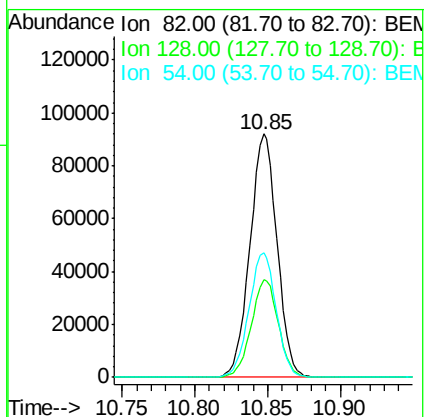
Tgt Ion: 82 Resp: 119320

Ion Ratio Lower Upper

82 100

128 40.4 31.2 46.8

54 51.1 41.9 62.9



#4

Naphthalene

Concen: 0.07 ng

RT: 12.54 min Scan# 2638

Delta R.T. -0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

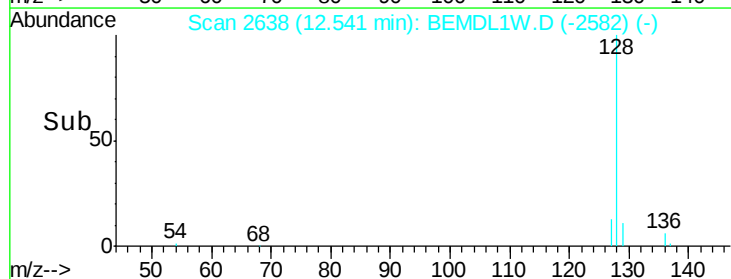
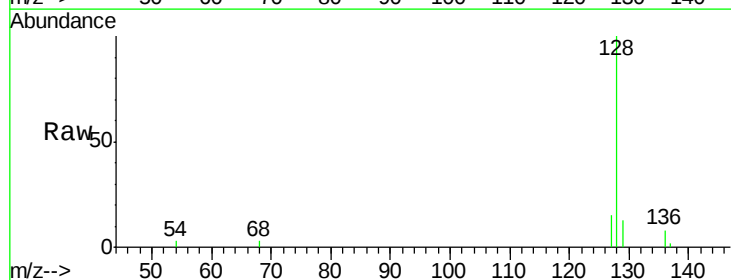
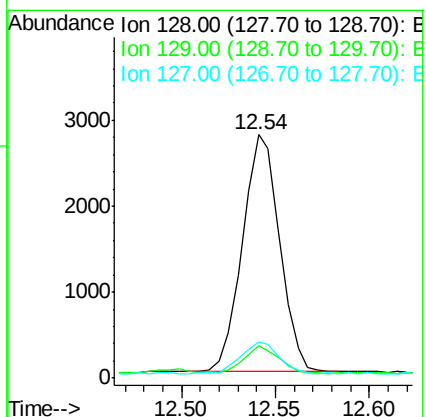
Tgt Ion: 128 Resp: 3813

Ion Ratio Lower Upper

128 100

129 13.1 8.8 13.2

127 15.1 10.6 16.0





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BEMDL1W.D

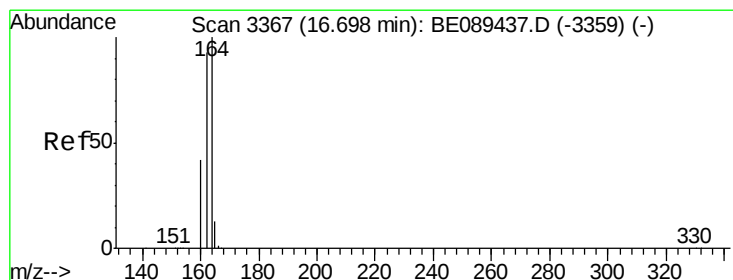
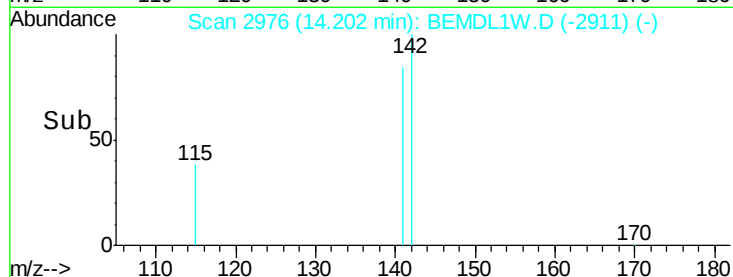
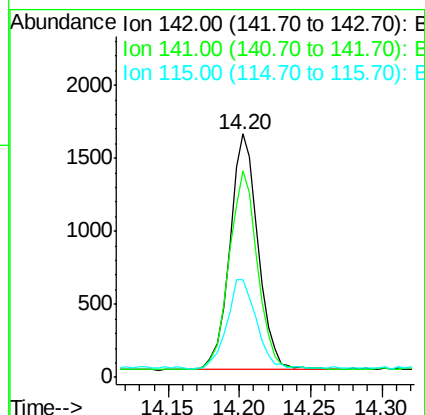
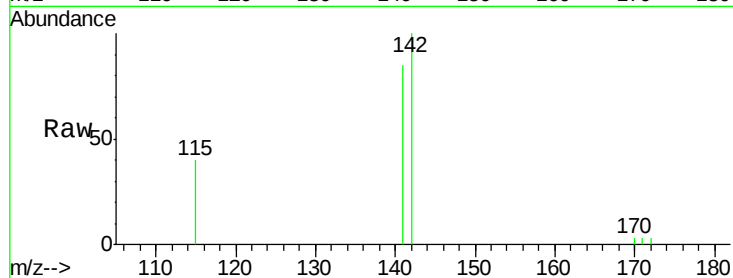
Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 2234  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 84.9  | 66.1  | 99.1  |
| 115      | 40.3  | 29.9  | 44.9  |



#6

Acenaphthene-d10

Concen: 5.00 ng

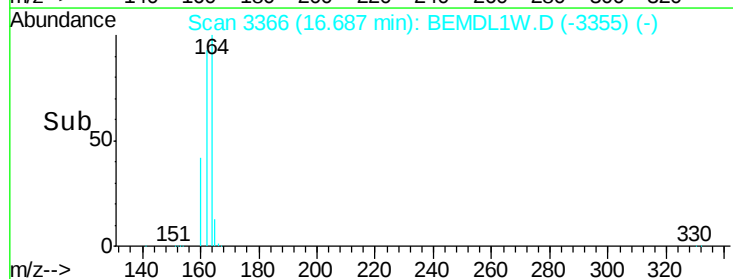
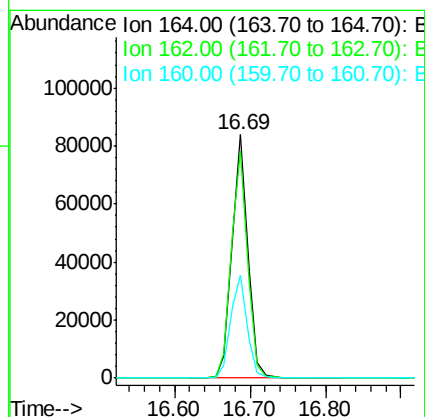
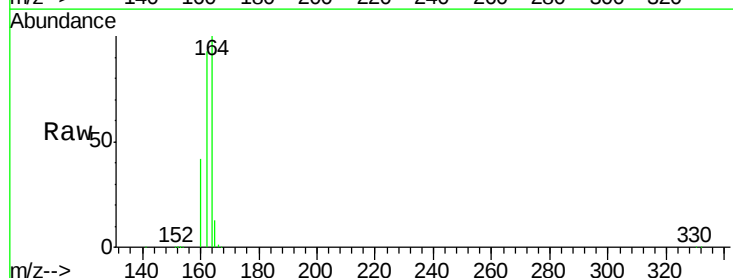
RT: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 121966 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 93.4  | 74.7  | 112.1  |
| 160      | 42.4  | 33.4  | 50.0   |





#7

2-Fluorobiphenyl

Concen: 6.90 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.01 min

Lab File: BEMDL1W.D

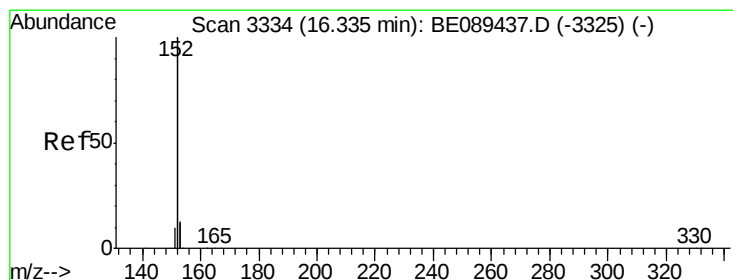
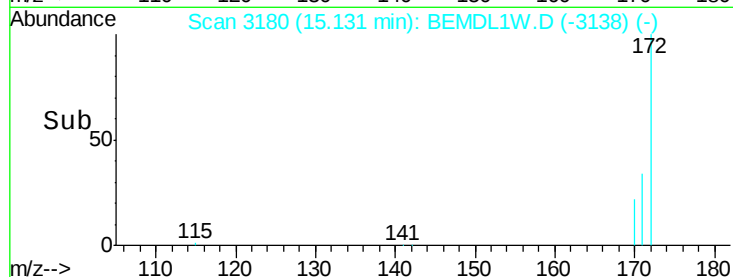
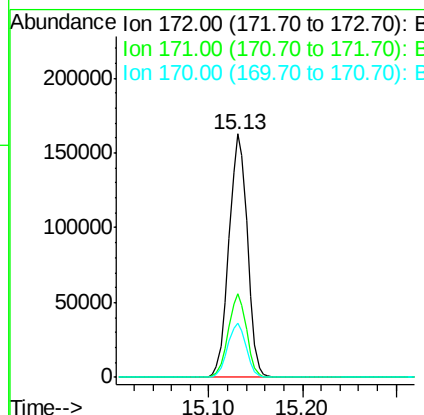
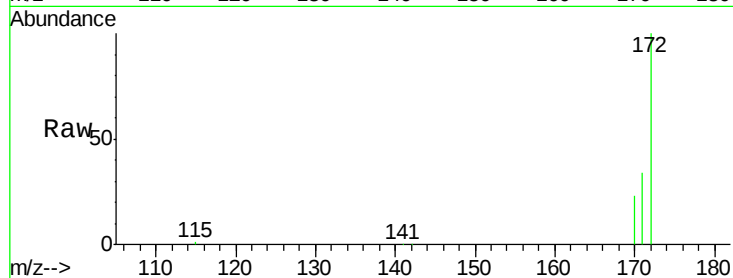
Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 221607 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 34.2  | 26.2  | 39.4   |
| 170      | 22.5  | 16.5  | 24.7   |



#8

Acenaphthylene

Concen: 0.06 ng

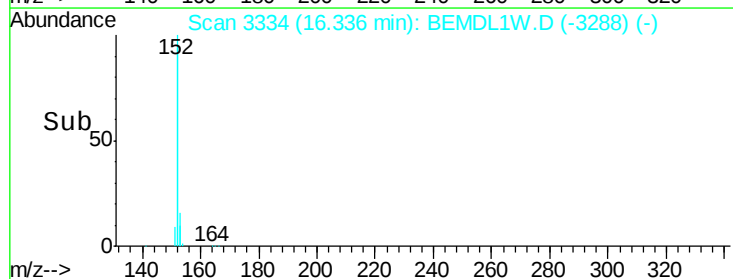
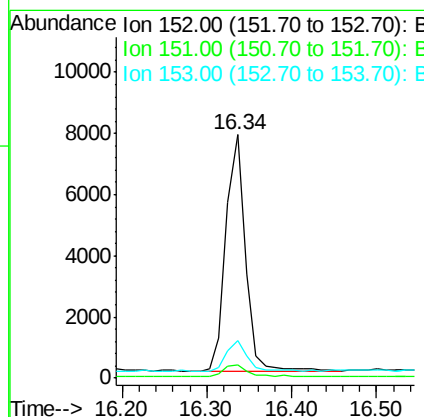
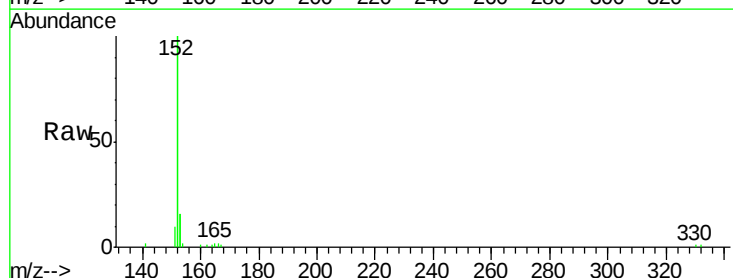
RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 12253 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 5.4   | 3.9   | 5.9   |
| 153      | 13.9  | 10.3  | 15.5  |





#9

Acenaphthene

Concen: 0.06 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

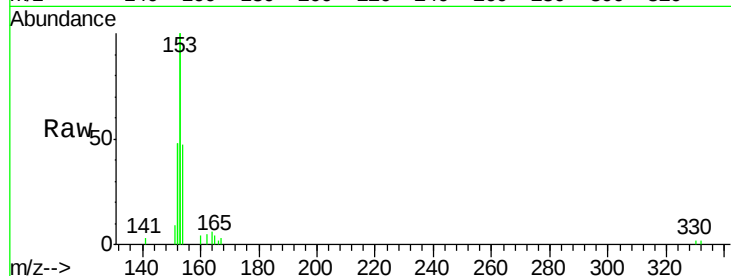
Tgt Ion:154 Resp: 1985

Ion Ratio Lower Upper

154 100

153 477.6 342.3 513.5

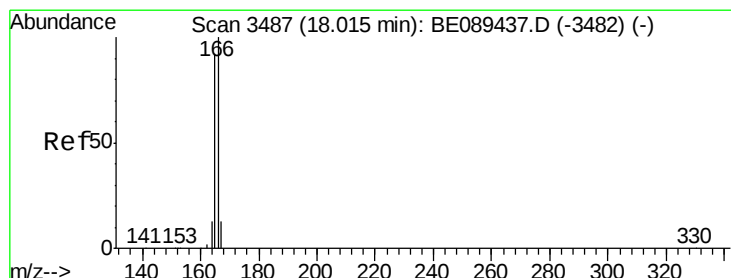
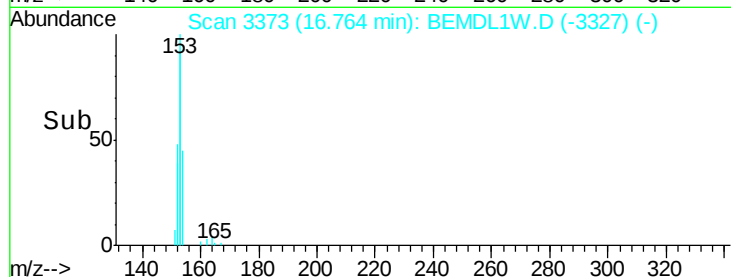
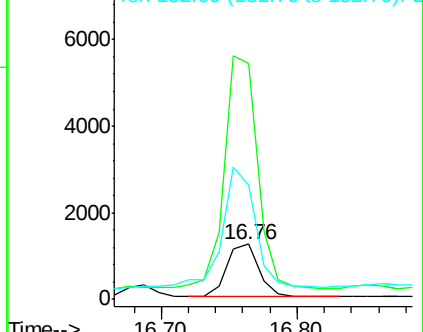
152 245.4 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.06 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

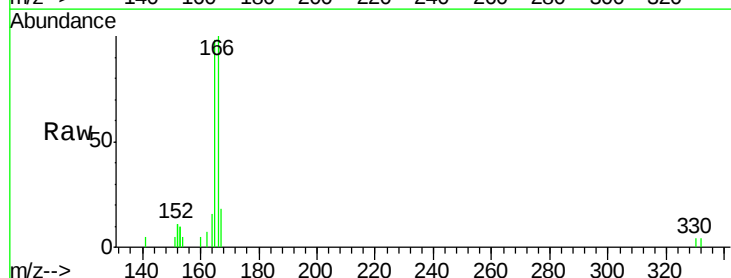
Tgt Ion:166 Resp: 2206

Ion Ratio Lower Upper

166 100

165 96.7 74.4 111.6

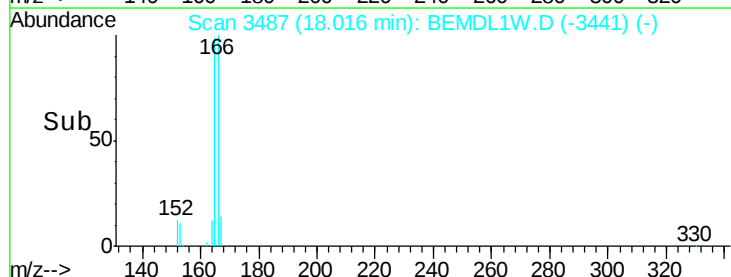
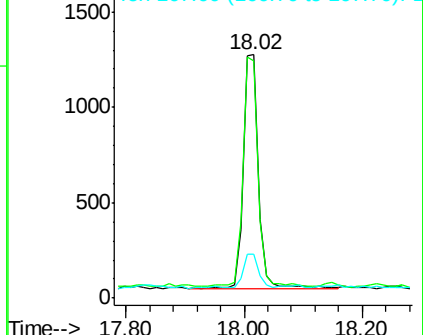
167 15.5 10.6 15.8



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

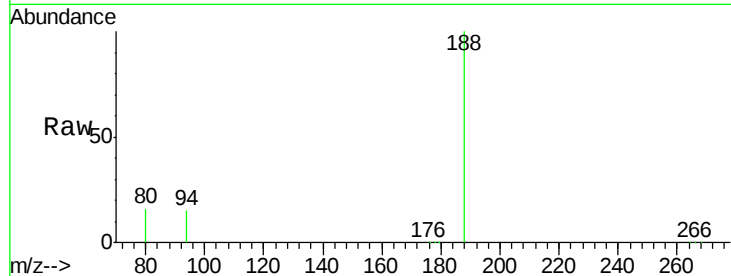




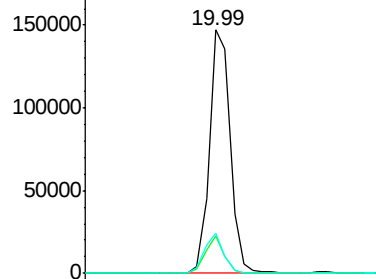
#11  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 19.99 min Scan# 3690  
Delta R.T. -0.01 min  
Lab File: BEMDL1W.D  
Acq: 31 Jan 2015 10:17

Instrument :  
BNA\_E  
ClientSampleId :

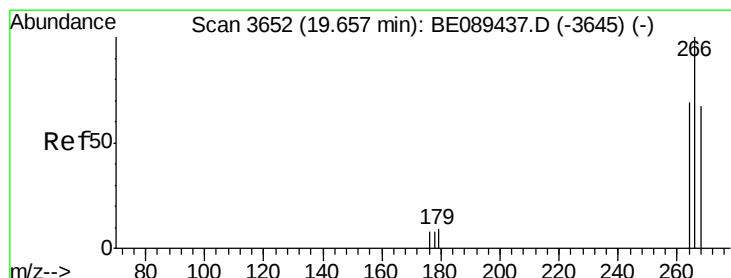
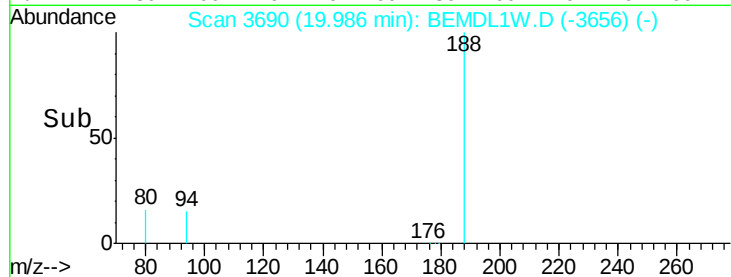
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 15.4  | 9.4   | 14.0# |
| 80      | 16.4  | 9.3   | 13.9# |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BEM  
Ion 80.00 (79.70 to 80.70): BEM

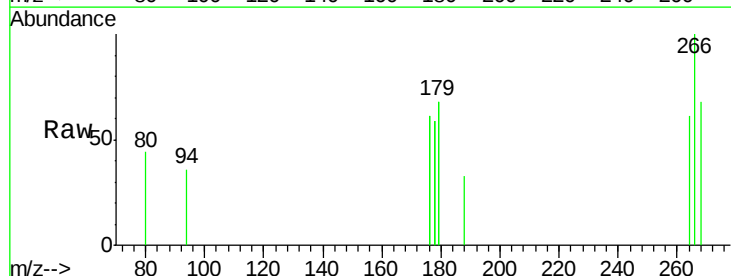


Time--> 19.90 20.00 20.10

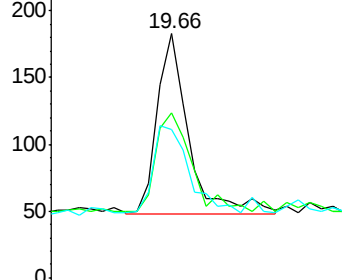


#12  
Pentachlorophenol  
Concen: Below Cal  
RT: 19.66 min Scan# 3652  
Delta R.T. 0.00 min  
Lab File: BEMDL1W.D  
Acq: 31 Jan 2015 10:17

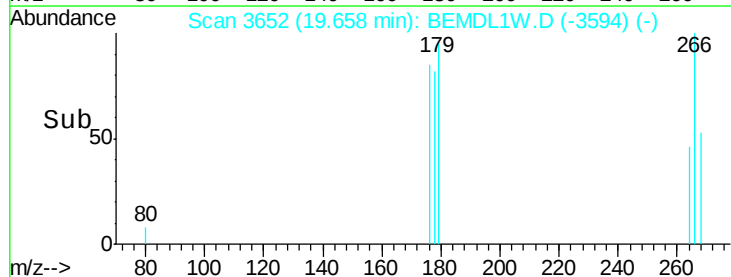
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 67.8  | 54.2  | 81.4  |
| 264     | 60.7  | 56.2  | 84.2  |

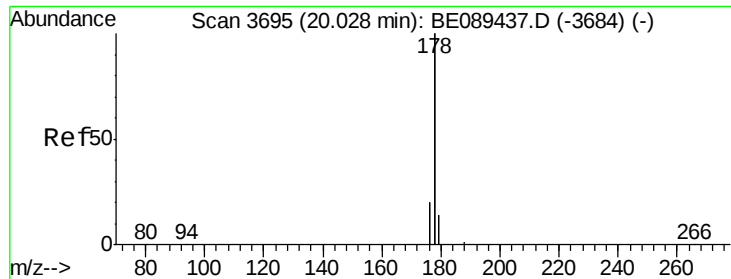


Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E



Time--> 19.60 19.70





#13

Phenanthrene

Concen: 0.07 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

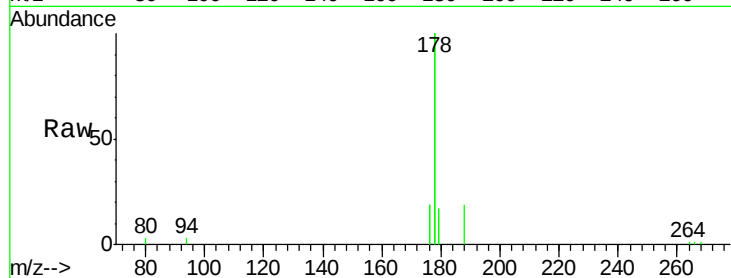
Tgt Ion:178 Resp: 13866

Ion Ratio Lower Upper

178 100

176 17.6 15.1 22.7

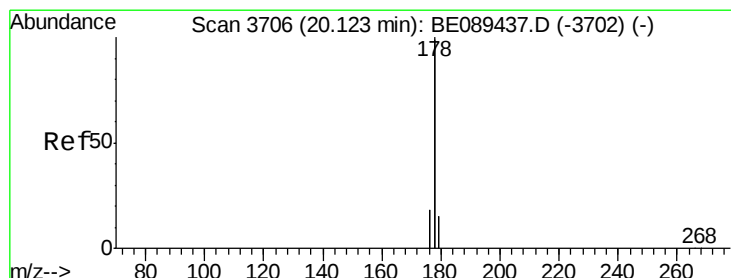
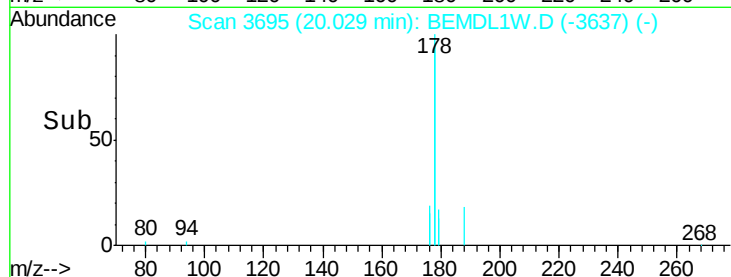
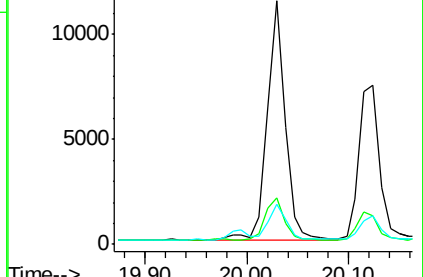
179 14.7 12.3 18.5



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



#14

Anthracene

Concen: 0.06 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

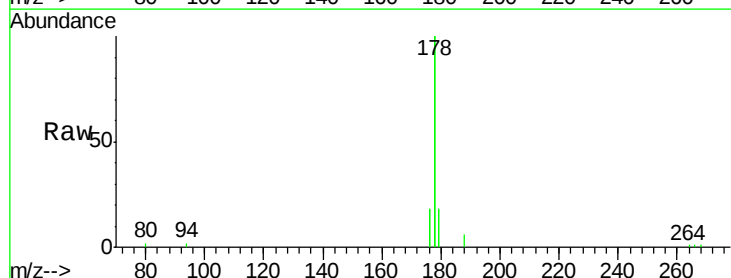
Tgt Ion:178 Resp: 10574

Ion Ratio Lower Upper

178 100

176 17.0 14.6 22.0

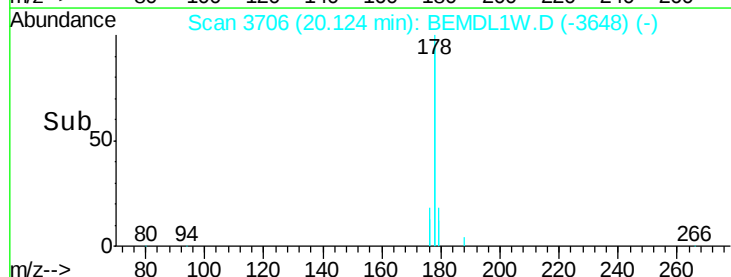
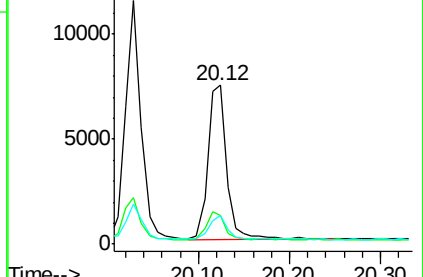
179 14.7 12.2 18.2

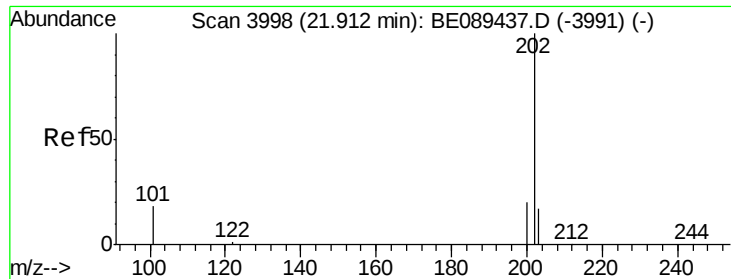


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

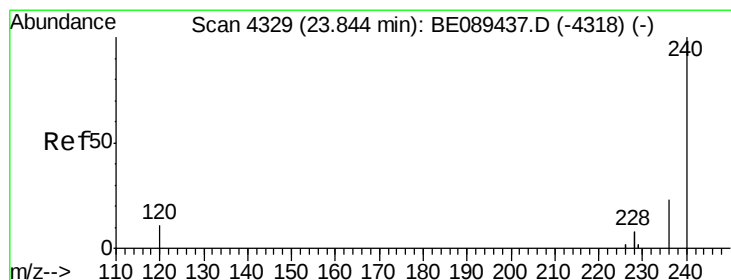
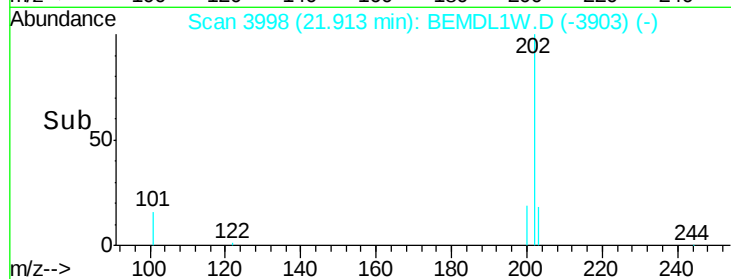
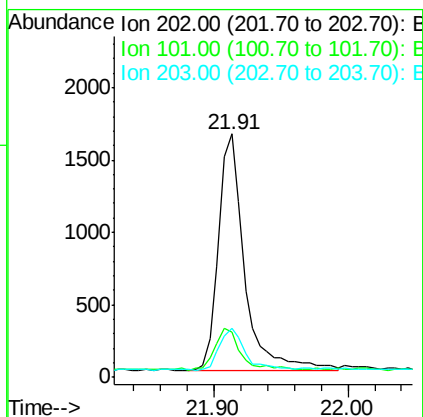
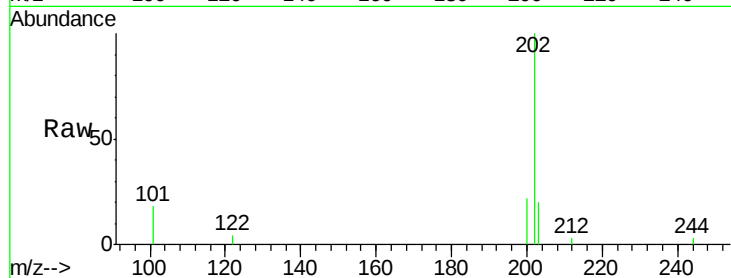




#15  
 Fluoranthene  
 Concen: 0.05 ng  
 RT: 21.91 min Scan# 3998  
 Delta R.T. 0.00 min  
 Lab File: BEMDL1W.D  
 Acq: 31 Jan 2015 10:17

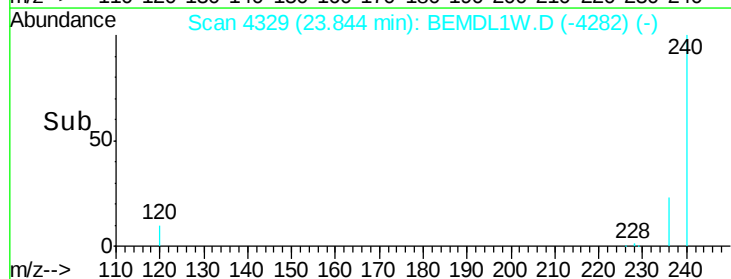
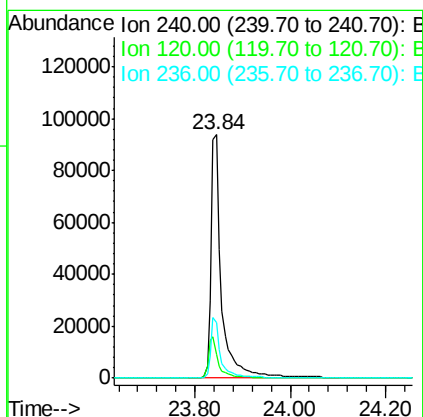
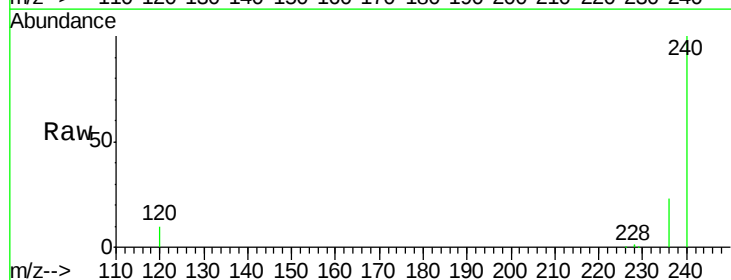
Instrument :  
 BNA\_E  
 ClientSampleId :

Tgt Ion: 202 Resp: 2179  
 Ion Ratio Lower Upper  
 202 100  
 101 17.8 13.6 20.4  
 203 17.5 13.8 20.6



#16  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 23.84 min Scan# 4329  
 Delta R.T. 0.00 min  
 Lab File: BEMDL1W.D  
 Acq: 31 Jan 2015 10:17

Tgt Ion: 240 Resp: 145784  
 Ion Ratio Lower Upper  
 240 100  
 120 9.7 8.6 13.0  
 236 22.7 18.7 28.1





#17

Pyrene

Concen: 0.06 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BEMDL1W.D

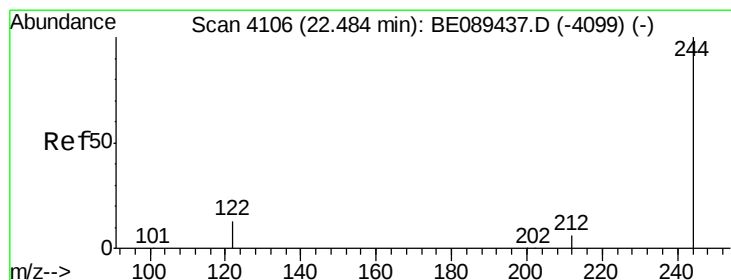
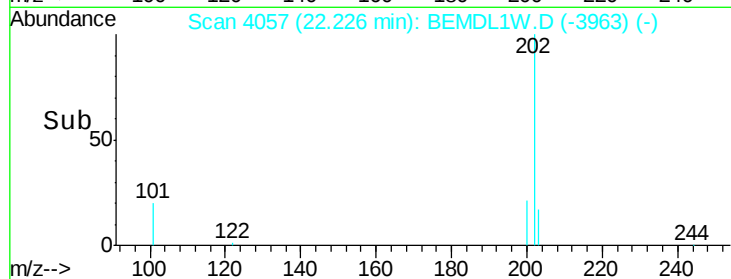
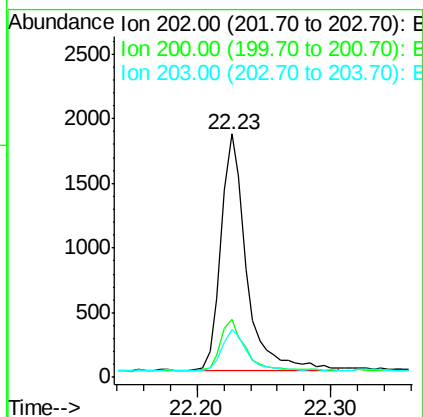
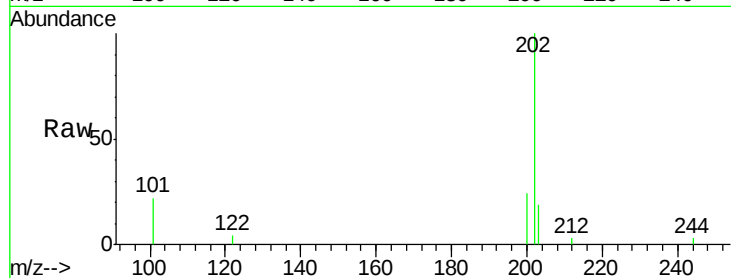
Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 2390  |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 20.9  | 16.2  | 24.4  |
| 203      | 16.8  | 13.8  | 20.8  |



#18

Terphenyl-d14

Concen: 8.55 ng

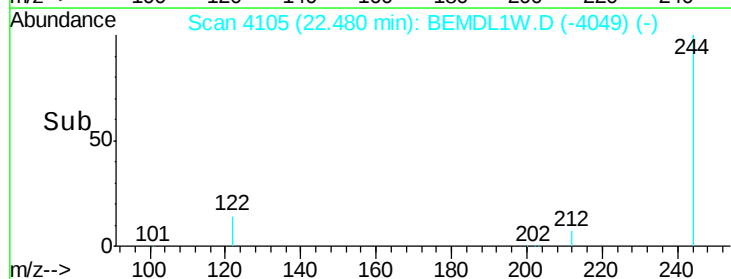
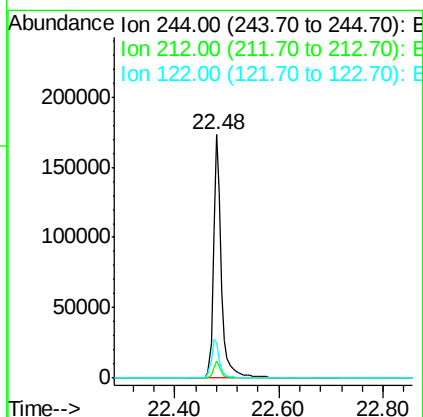
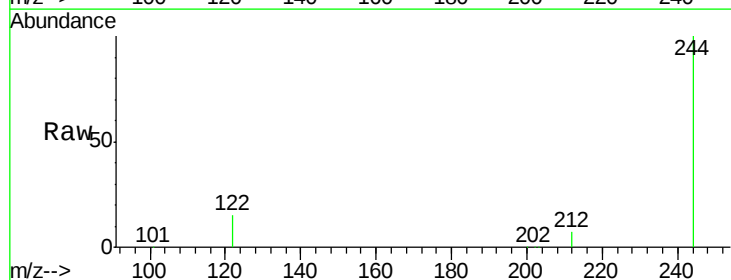
RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 186638 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 6.8   | 5.0   | 7.6    |
| 122      | 14.5  | 10.2  | 15.4   |





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.83 min Scan# 4327

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

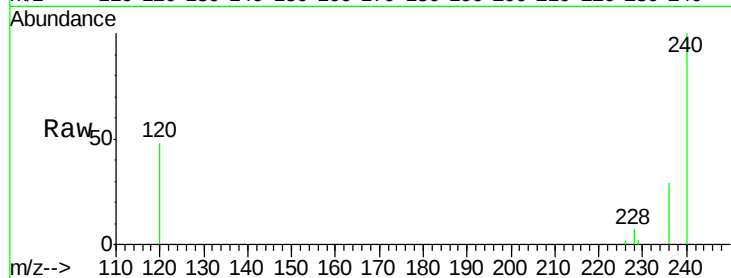
Tgt Ion:228 Resp: 6634

Ion Ratio Lower Upper

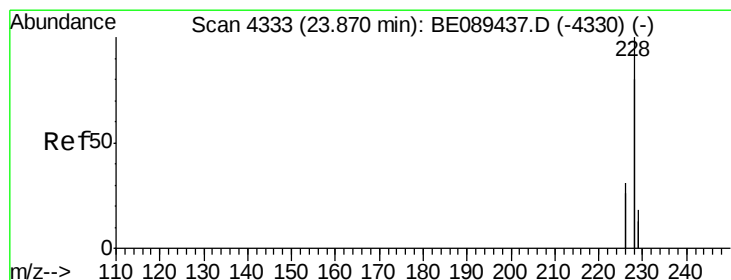
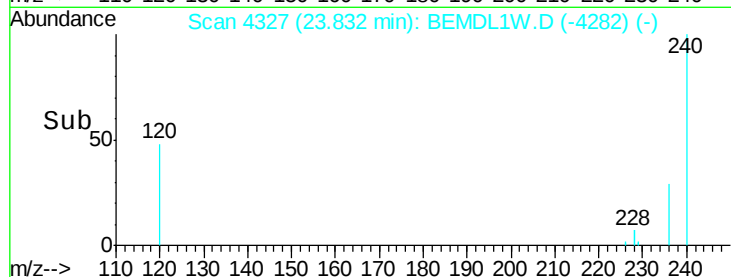
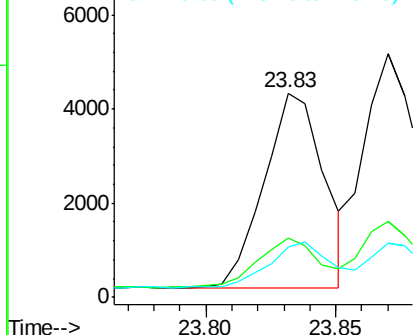
228 100

226 29.3 20.0 30.0

229 24.4 16.0 24.0#



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.08 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

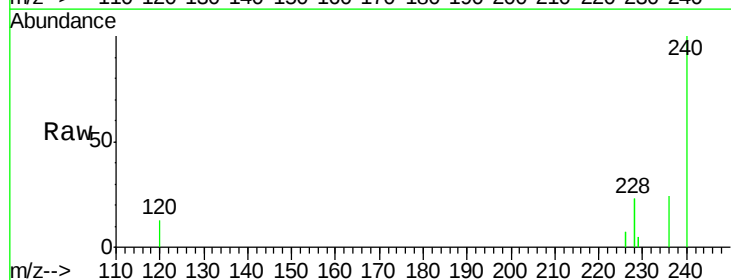
Tgt Ion:228 Resp: 11255

Ion Ratio Lower Upper

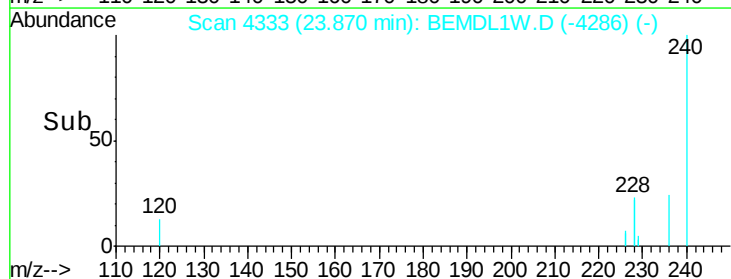
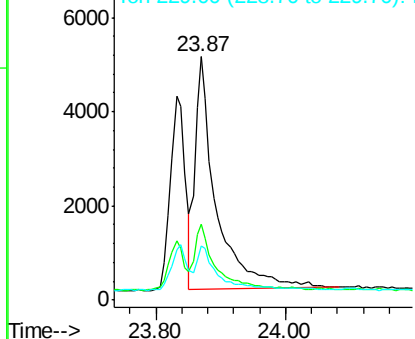
228 100

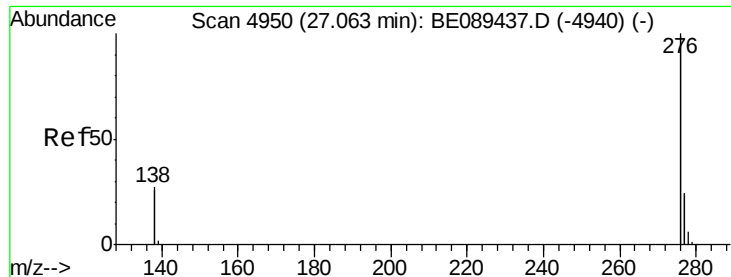
226 31.3 24.5 36.7

229 22.3 14.1 21.1#



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

Indeno(1,2,3-cd)pyrene

Concen: 0.01 ng

RT: 27.05 min Scan# 4948

Delta R.T. -0.01 min

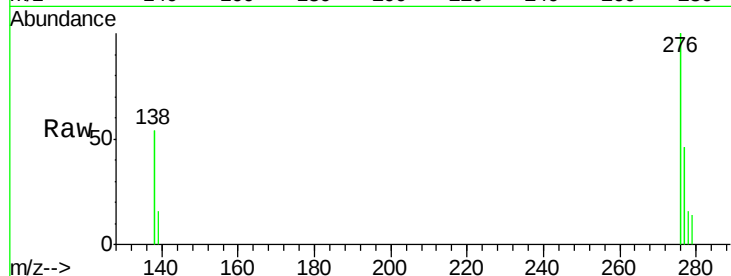
Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :



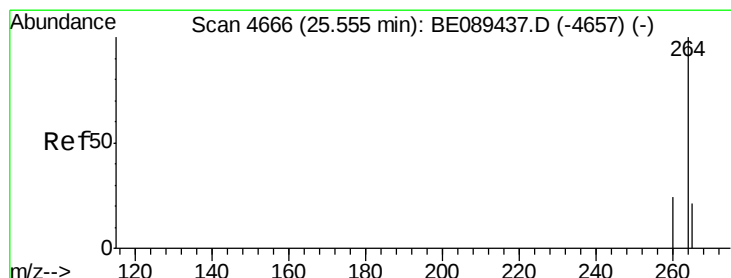
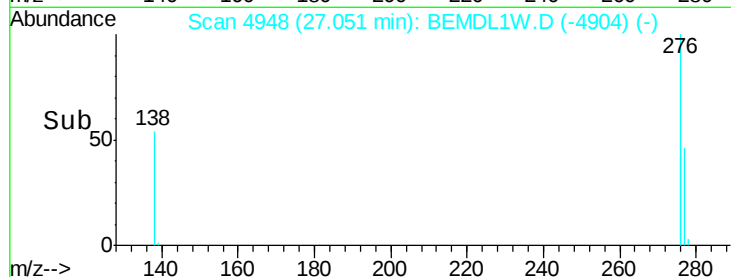
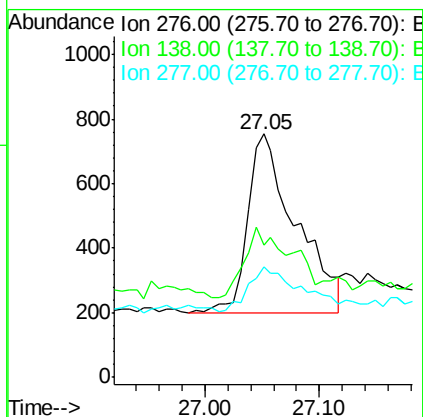
Tgt Ion: 276 Resp: 1628

Ion Ratio Lower Upper

276 100

138 40.4 25.4 38.0#

277 29.5 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4666

Delta R.T. 0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

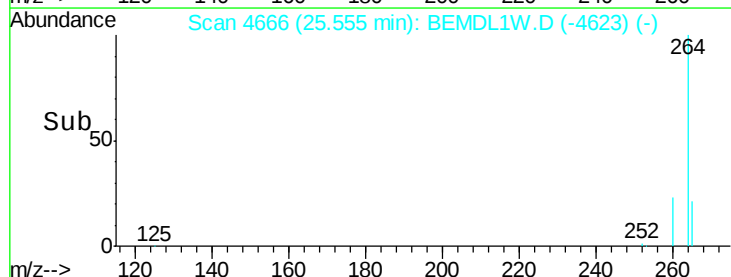
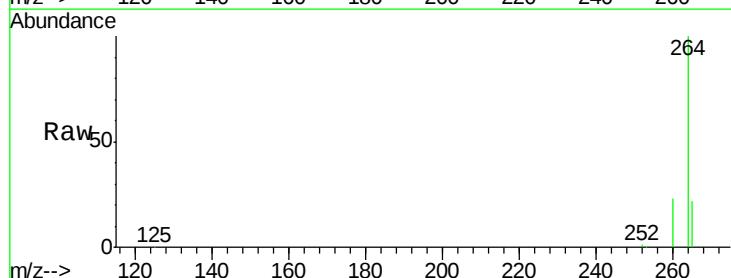
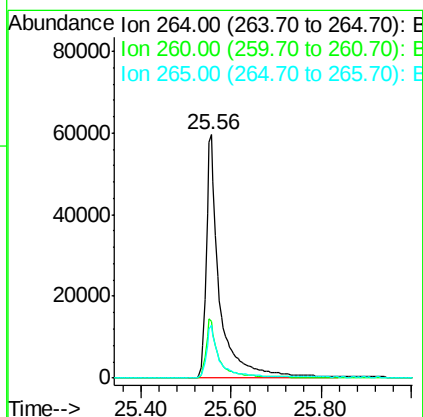
Tgt Ion: 264 Resp: 123434

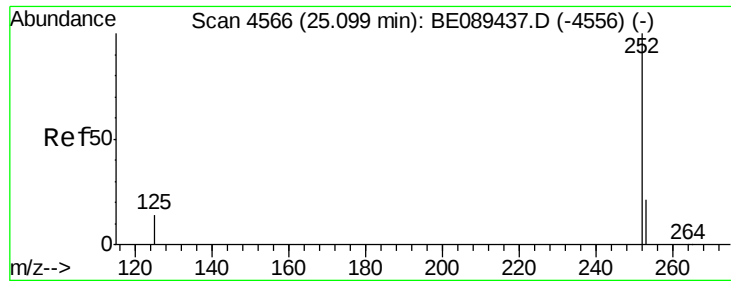
Ion Ratio Lower Upper

264 100

260 23.2 19.4 29.0

265 21.6 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 25.10 min Scan# 4565

Delta R.T. -0.00 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

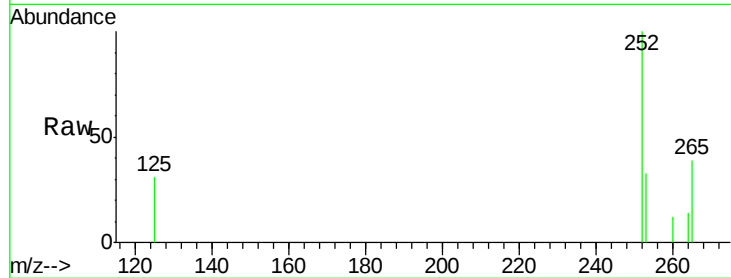
Tgt Ion:252 Resp: 430

Ion Ratio Lower Upper

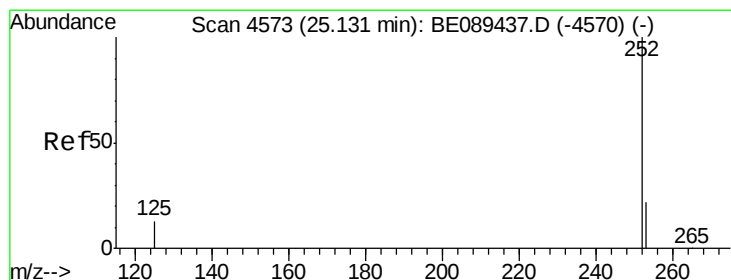
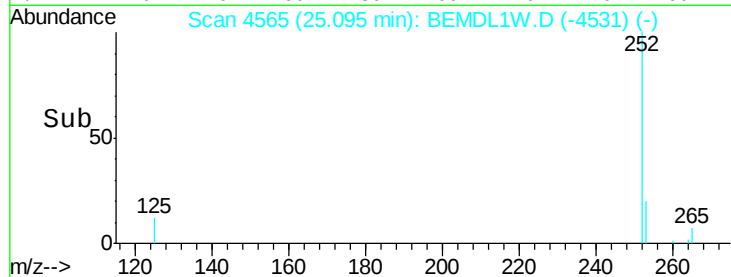
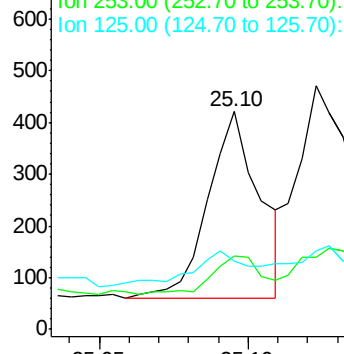
252 100

253 33.5 17.0 25.6#

125 31.1 11.4 17.0#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 25.12 min Scan# 4571

Delta R.T. -0.01 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

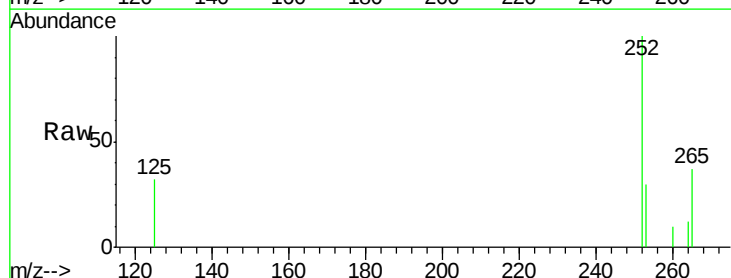
Tgt Ion:252 Resp: 559

Ion Ratio Lower Upper

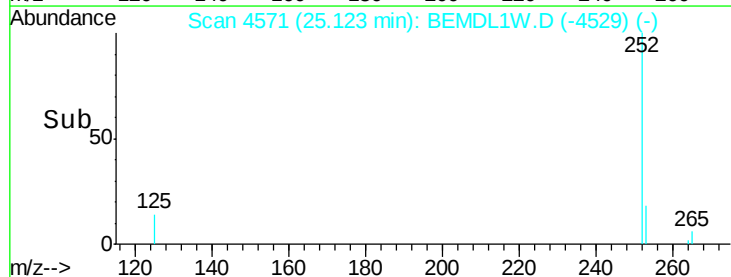
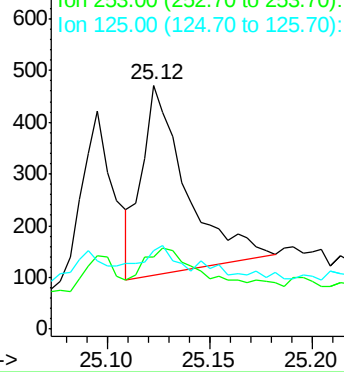
252 100

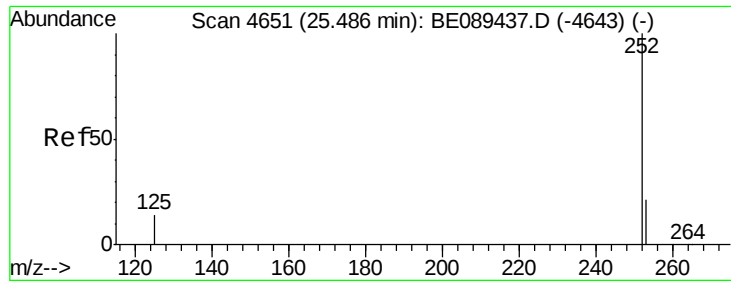
253 29.7 17.4 26.2#

125 32.5 10.9 16.3#



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





#25

Benzo(a)pyrene

Concen: 0.14 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.01 min

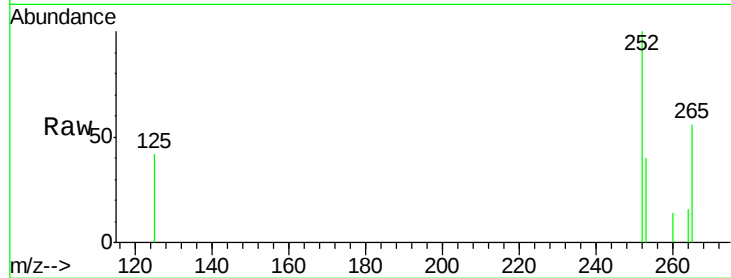
Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

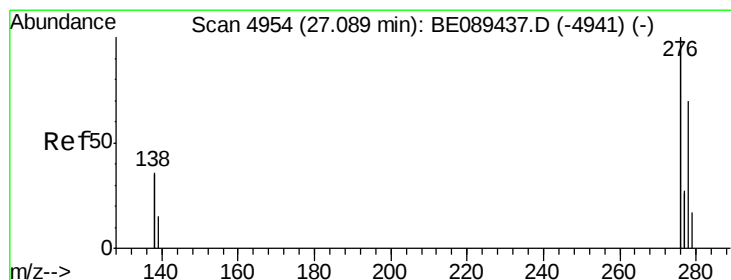
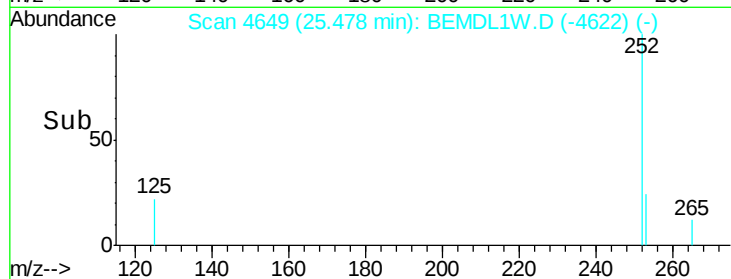
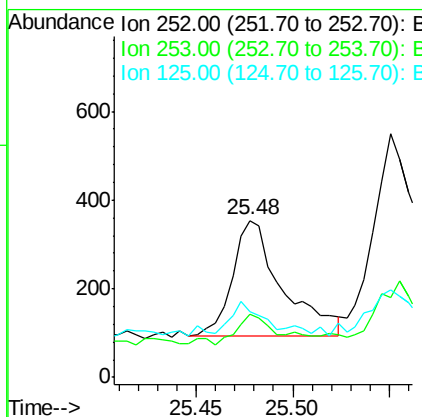
Instrument :

BNA\_E

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 462   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 40.4  | 17.3  | 25.9# |
| 125      | 41.8  | 12.0  | 18.0# |



#26

Dibenzo(a,h)anthracene

Concen: 0.14 ng

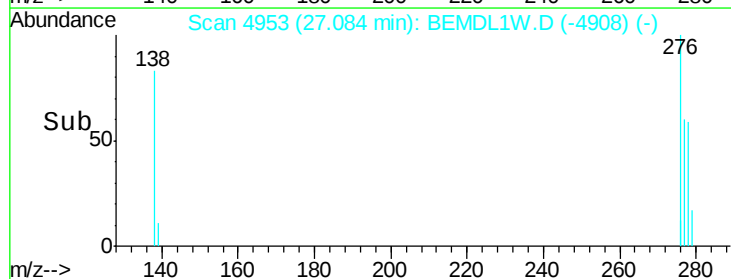
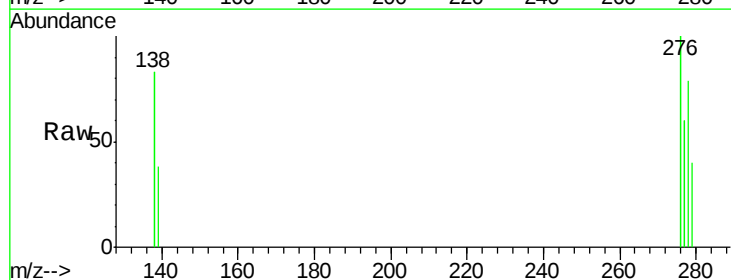
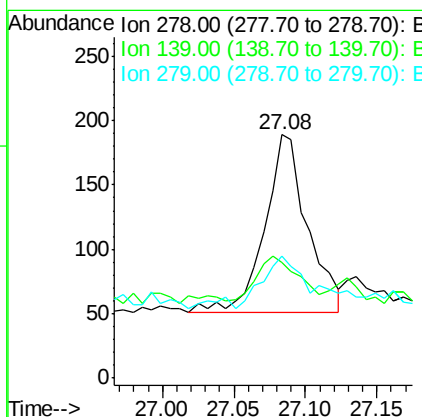
RT: 27.08 min Scan# 4953

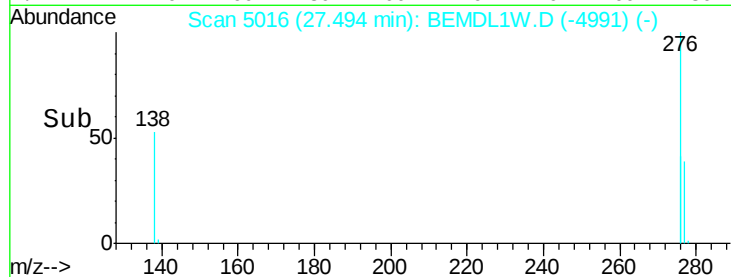
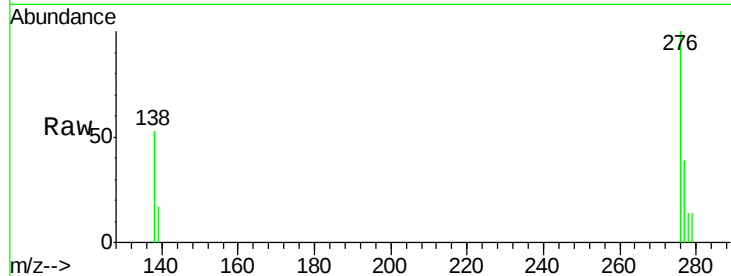
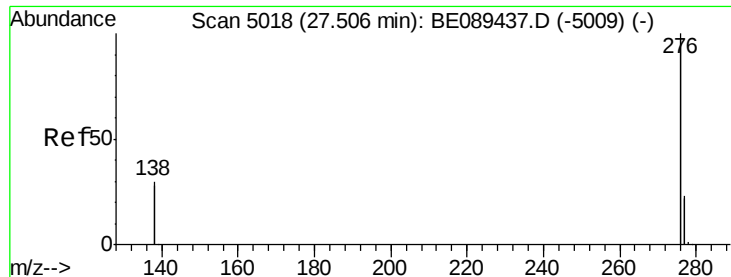
Delta R.T. -0.01 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 288   |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 47.6  | 17.0  | 25.4# |
| 279      | 50.3  | 19.1  | 28.7# |





#27

Benzo(g,h,i)perylene

Concen: 0.02 ng

RT: 27.49 min Scan# 5016

Delta R.T. -0.01 min

Lab File: BEMDL1W.D

Acq: 31 Jan 2015 10:17

Instrument :

BNA\_E

ClientSampleId :

Tgt Ion:276 Resp: 2276

Ion Ratio Lower Upper

276 100

277 39.1 18.4 27.6#

138 53.0 23.7 35.5#

