

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM060615\  
 Data File : BM001586.D  
 Acq On : 06 Jun 2015 09:52  
 Operator : TP/IZ  
 Sample : G2491-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SS043MW007-150601

Manual Integrations  
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 6/8/2015 2:48:21 PM

Quant Time: Jun 08 13:44:08 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SIM-BM060615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 08 05:27:25 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.70  | 152  | 25001    | 5.00  | ng    | 0.00     |
| 6) Naphthalene-d8              | 10.47 | 136  | 87670    | 5.00  | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.35 | 164  | 40609    | 5.00  | ng    | 0.00     |
| 18) Phenanthrene-d10           | 17.09 | 188  | 51062    | 5.00  | ng    | 0.00     |
| 25) Chrysene-d12               | 21.28 | 240  | 68942    | 5.00  | ng    | 0.00     |
| 32) Perylene-d12               | 23.52 | 264  | 63607    | 5.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.28  | 112  | 14563    | 2.64  | ng    | 0.02     |
| 5) Phenol-d6                   | 6.84  | 99   | 16734    | 2.47  | ng    | 0.00     |
| 7) Nitrobenzene-d5             | 8.85  | 82   | 32120    | 5.38  | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol       | 15.83 | 330  | 25416    | 13.07 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl           | 12.96 | 172  | 74424    | 5.95  | ng    | 0.00     |
| 27) Terphenyl-d14              | 19.72 | 244  | 69006    | 7.75  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.21  | 88   | 26923    | 12.50 | ng    | 97       |
| 9) Naphthalene                 | 10.52 | 128  | 1373     | 0.07  | ng    | # 79     |
| 11) 2-Methylnaphthalene        | 12.15 | 142  | 3209     | 0.27  | ng    | 97       |
| 15) Acenaphthylene             | 14.06 | 152  | 384      | 0.02  | ng    | # 55     |
| 16) Acenaphthene               | 14.41 | 154  | 1903     | 0.17  | ng    | 89       |
| 21) Pentachlorophenol          | 16.75 | 266  | 501      | 0.64  | ng    | 93       |
| 22) Phenanthrene               | 17.12 | 178  | 4084     | 0.23  | ng    | # 90     |
| 23) Anthracene                 | 17.19 | 178  | 1280m    | 0.17  | ng    |          |
| 24) Fluoranthene               | 19.15 | 202  | 1954     | 0.14  | ng    | # 86     |
| 26) Pyrene                     | 19.52 | 202  | 1609     | 0.07  | ng    | # 48     |
| 30) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 8281     | 0.73  | ng    | 98       |
| 31) Indeno(1,2,3-cd)pyrene     | 25.77 | 276  | 1379     | 0.07  | ng    | 98       |
| 36) Dibenzo(a,h)anthracene     | 25.79 | 278  | 1229     | 0.08  | ng    | # 58     |
| 37) Benzo(g,h,i)perylene       | 26.46 | 276  | 1080     | 0.06  | ng    | # 68     |

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

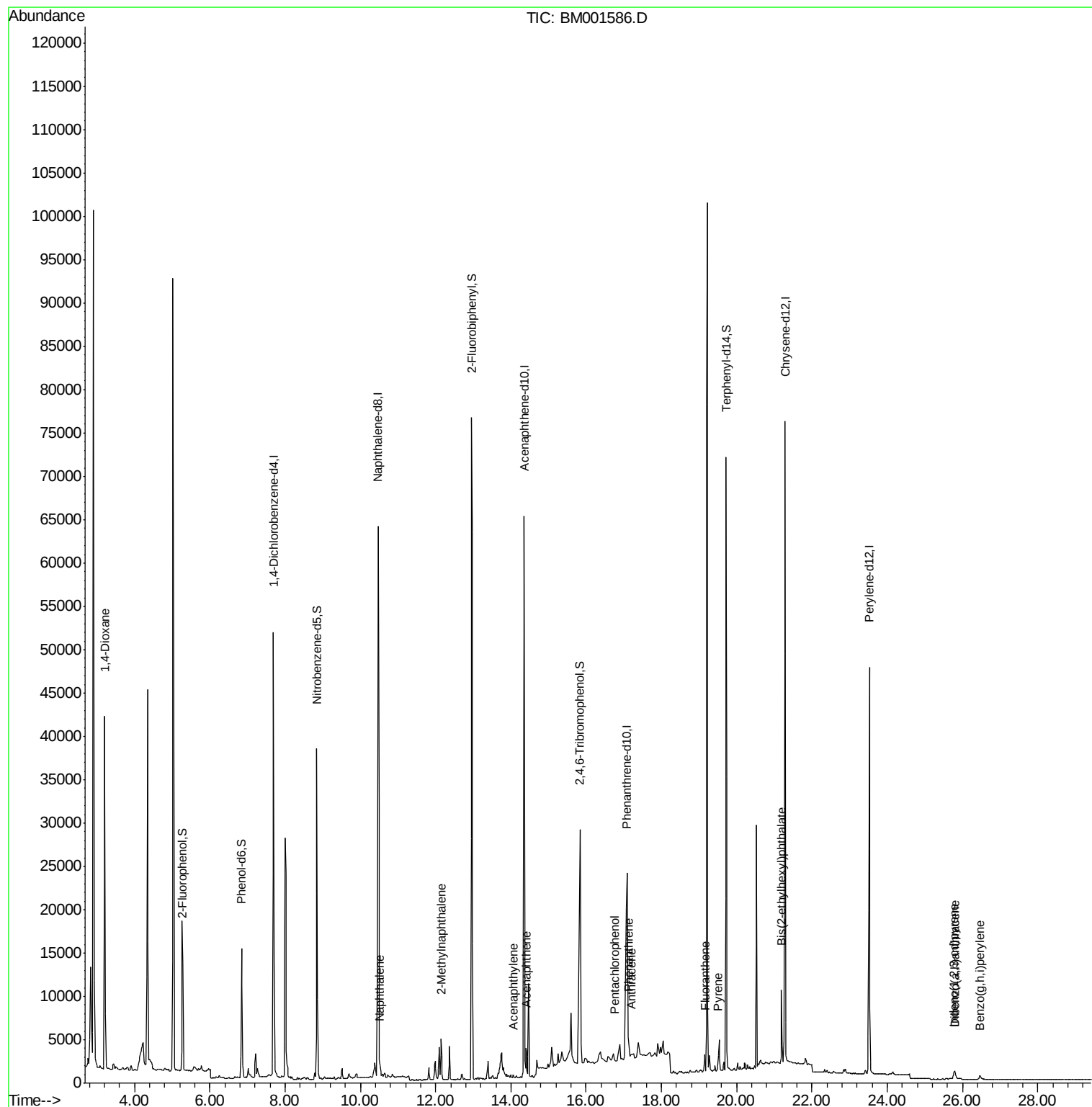
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM060615\  
Data File : BM001586.D  
Acq On : 06 Jun 2015 09:52  
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Sample : G2491-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

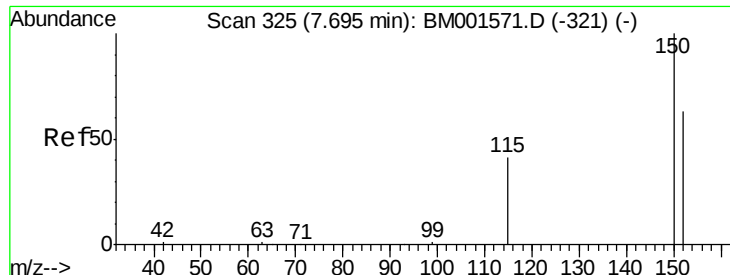
Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW007-150601

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Quant Time: Jun 08 13:44:08 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SIM-BM060615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 08 05:27:25 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.70 min Scan# 325

Delta R.T. -0.00 min

Lab File: BM001586.D

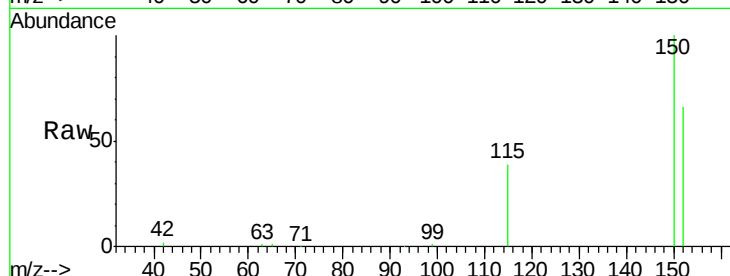
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

SS043MW007-150601



Tgt Ion:152 Resp: 25001

Ion Ratio Lower Upper

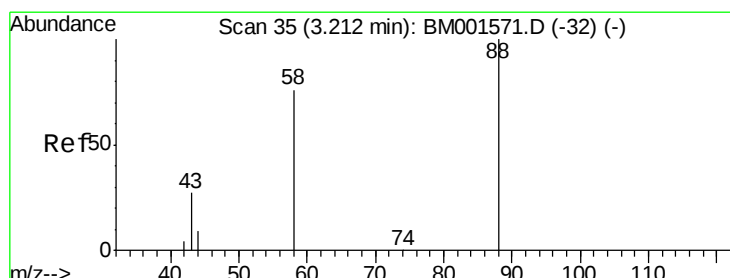
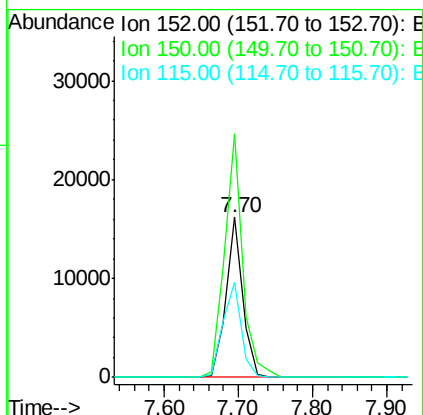
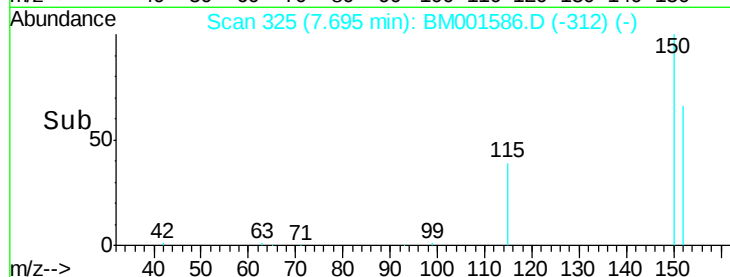
152 100

150 152.3 126.6 190.0

115 59.8 51.6 77.4

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#2

1,4-Dioxane

Concen: 12.50 ng

RT: 3.21 min Scan# 35

Delta R.T. -0.00 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

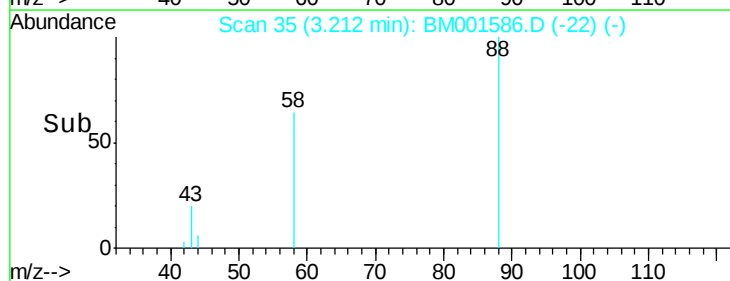
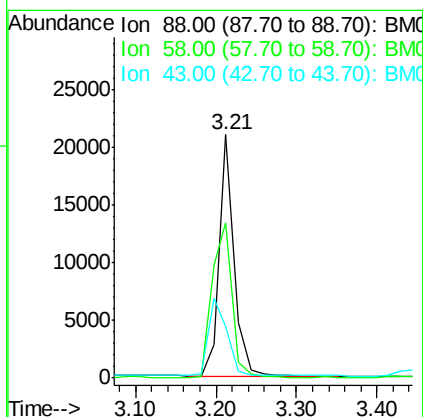
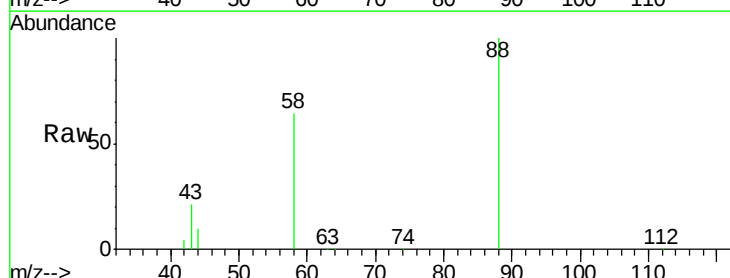
Tgt Ion: 88 Resp: 26923

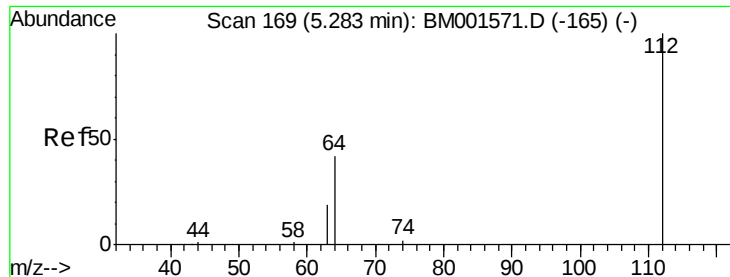
Ion Ratio Lower Upper

88 100

58 86.1 66.1 99.1

43 40.3 32.3 48.5





#4

2-Fluorophenol

Concen: 2.64 ng

RT: 5.28 min Scan# 169

Delta R.T. 0.02 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

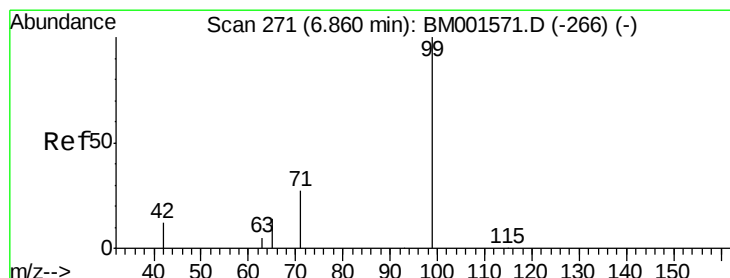
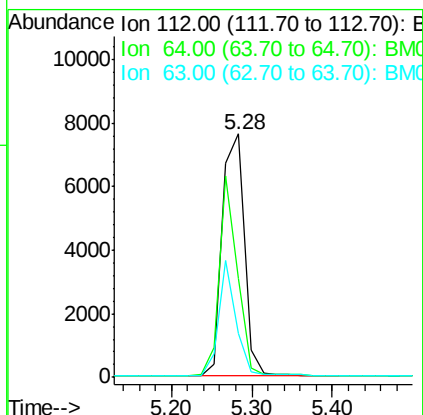
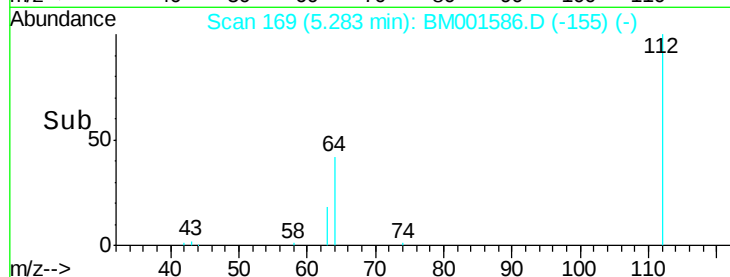
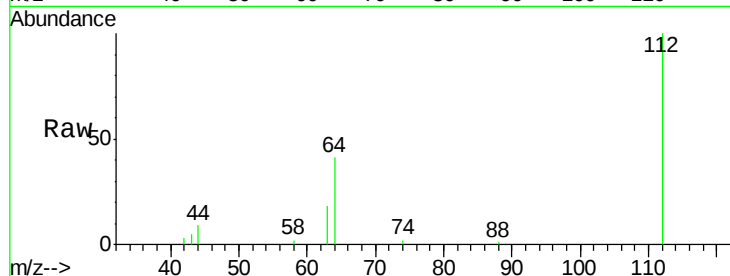
ClientSampleId :

SS043MW007-150601

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 14563 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 67.8  | 53.3  | 79.9  |
| 63        | 37.6  | 29.7  | 44.5  |

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#5

Phenol-d6

Concen: 2.47 ng

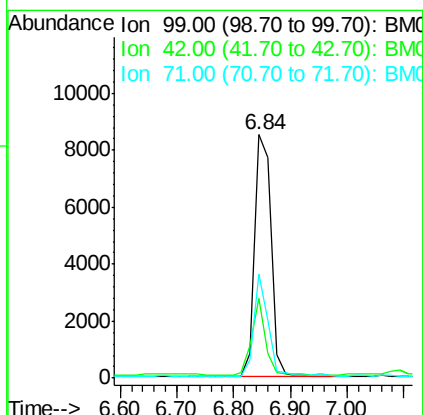
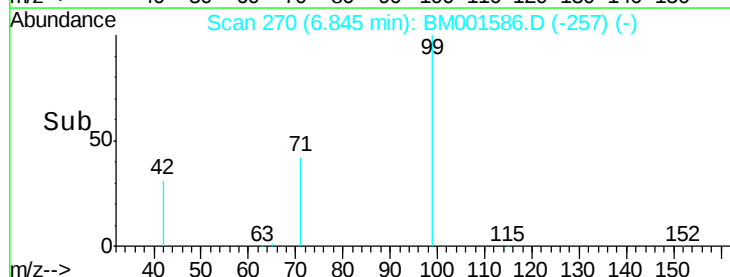
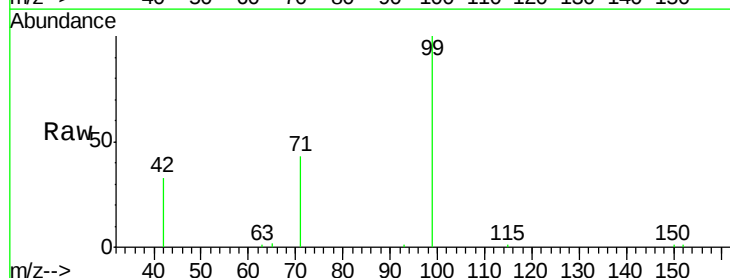
RT: 6.84 min Scan# 270

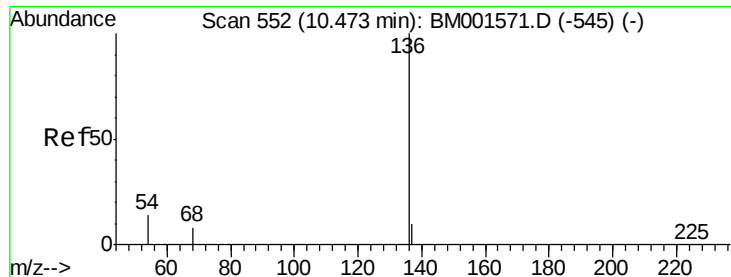
Delta R.T. -0.00 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 16734 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 25.8  | 21.4  | 32.2  |
| 71        | 36.5  | 29.0  | 43.4  |





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.47 min Scan# 552

Delta R.T. -0.00 min

Lab File: BM001586.D

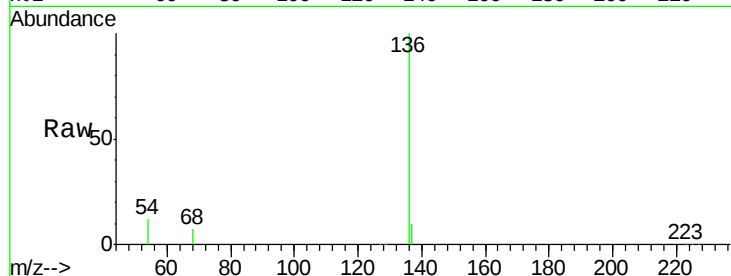
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

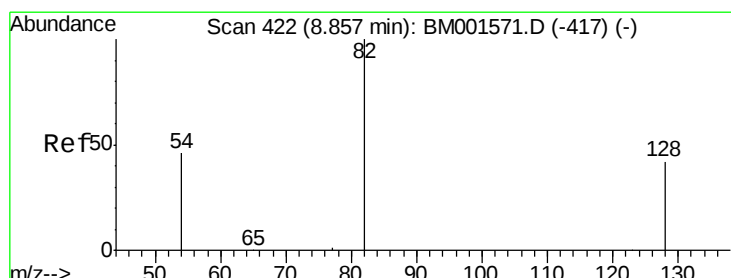
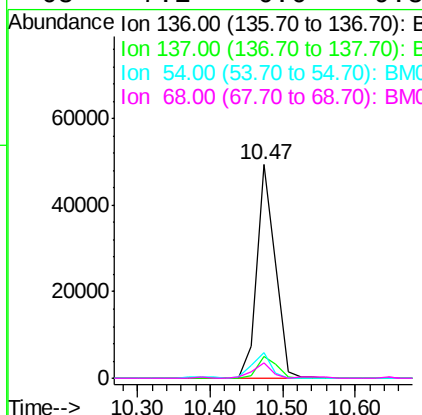
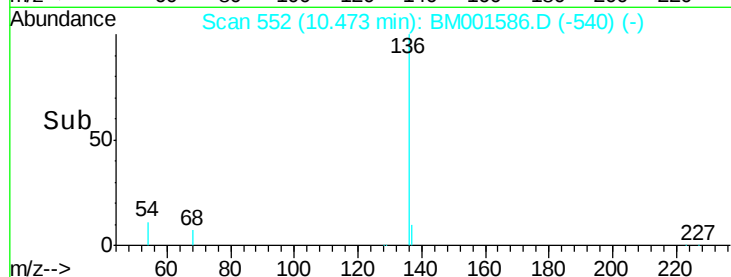
SS043MW007-150601



| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 87670 |       |       |
| 137     | 10.3  | 8.1   | 12.1  |       |
| 54      | 11.7  | 11.7  | 17.5  |       |
| 68      | 7.1   | 6.6   | 9.8   |       |

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#7

Nitrobenzene-d5

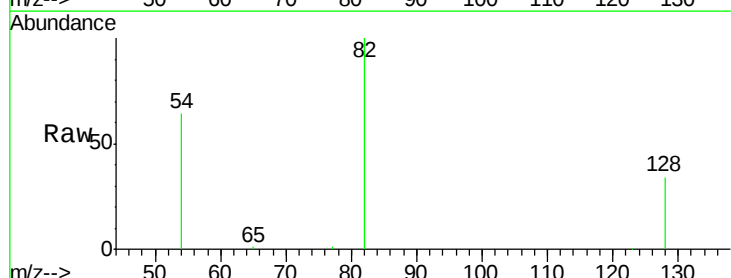
Concen: 5.38 ng

RT: 8.85 min Scan# 421

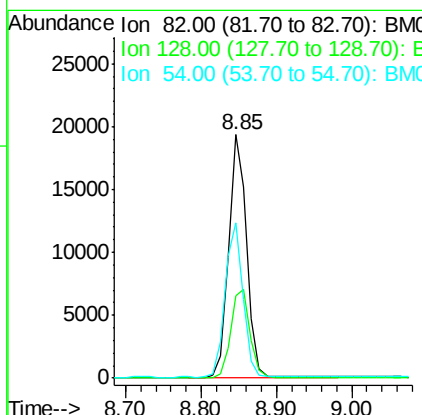
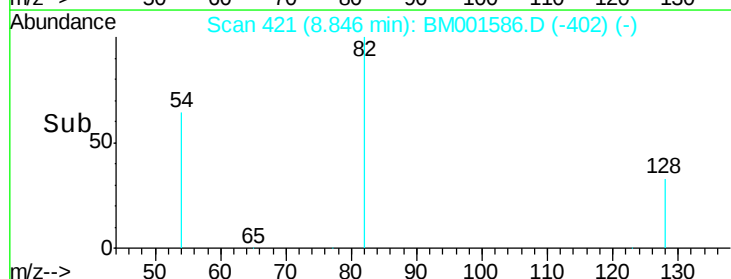
Delta R.T. -0.00 min

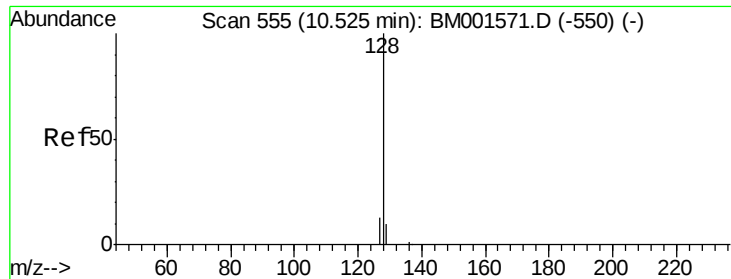
Lab File: BM001586.D

Acq: 06 Jun 2015 09:52



| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 82      | 100   | 32120 |       |       |
| 128     | 33.6  | 34.1  | 51.1# |       |
| 54      | 63.8  | 37.8  | 56.6# |       |





#9

Naphthalene

Concen: 0.07 ng

RT: 10.52 min Scan# 555

Delta R.T. -0.00 min

Lab File: BM001586.D

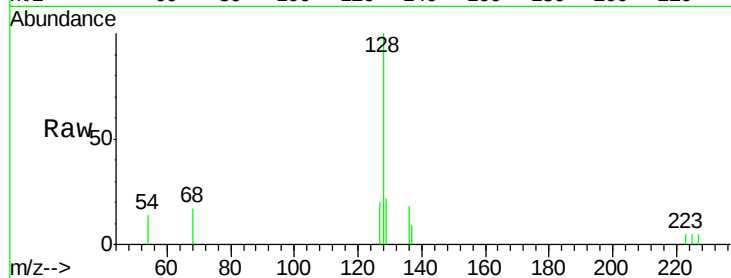
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

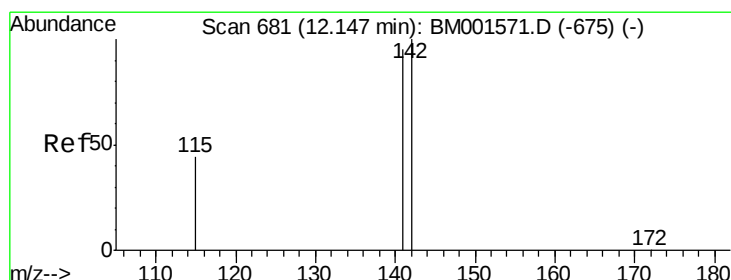
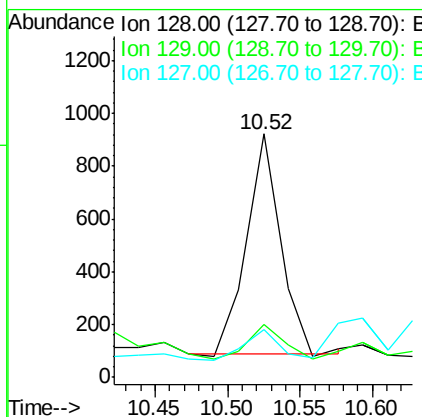
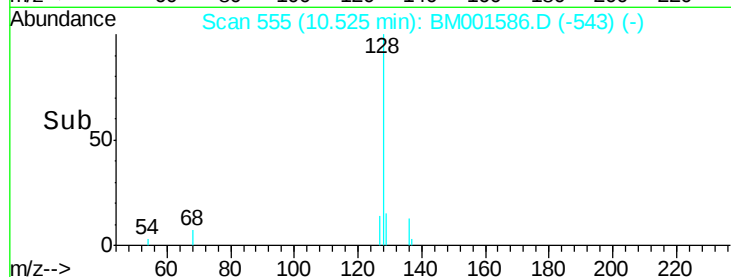
SS043MW007-150601



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 21.9  | 8.7   | 13.1# |
| 127     | 19.5  | 10.7  | 16.1# |

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#11

2-Methylnaphthalene

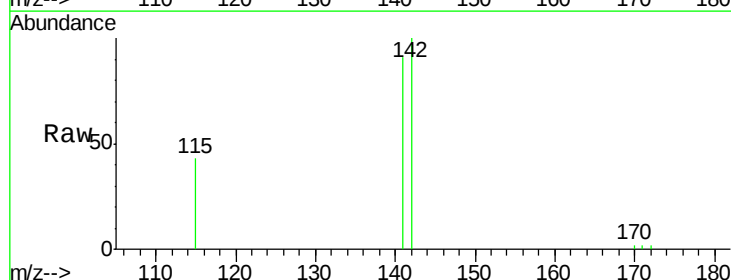
Concen: 0.27 ng

RT: 12.15 min Scan# 681

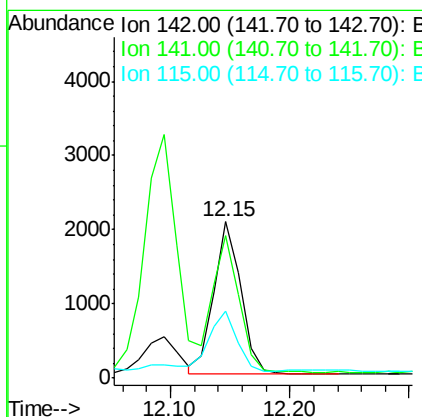
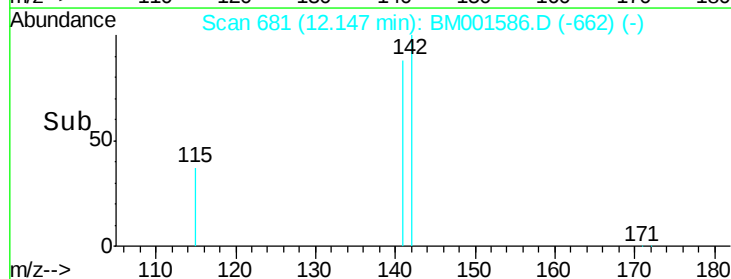
Delta R.T. -0.00 min

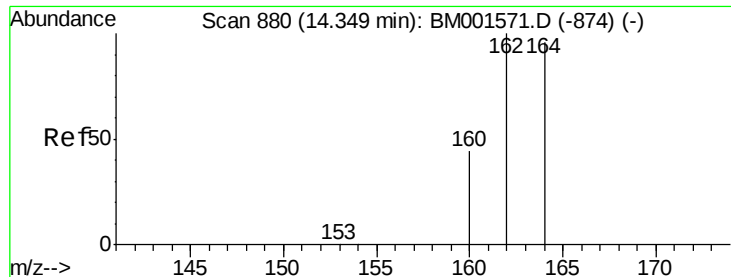
Lab File: BM001586.D

Acq: 06 Jun 2015 09:52



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.9  | 75.6  | 113.4 |
| 115     | 42.5  | 35.5  | 53.3  |





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.35 min Scan# 880

Delta R.T. -0.00 min

Lab File: BM001586.D

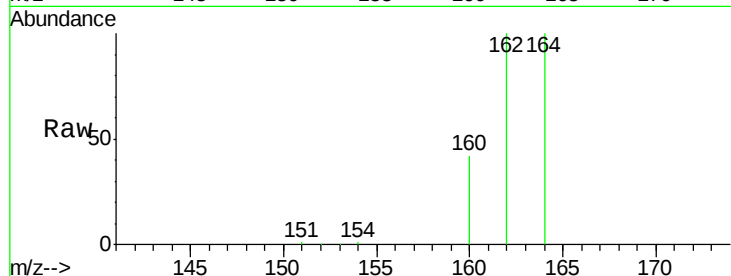
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

SS043MW007-150601



Tgt Ion:164 Resp: 40609

Ion Ratio Lower Upper

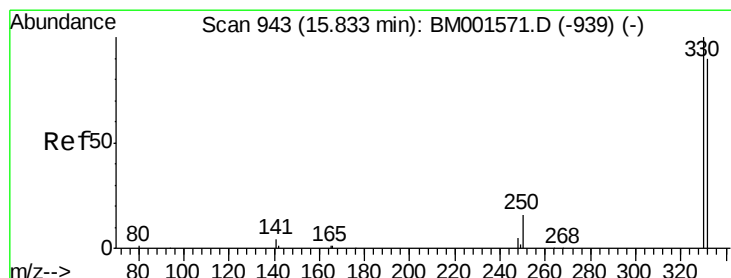
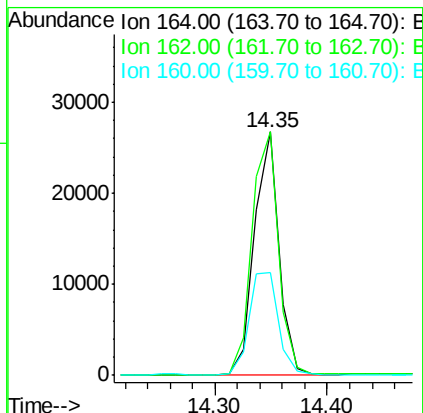
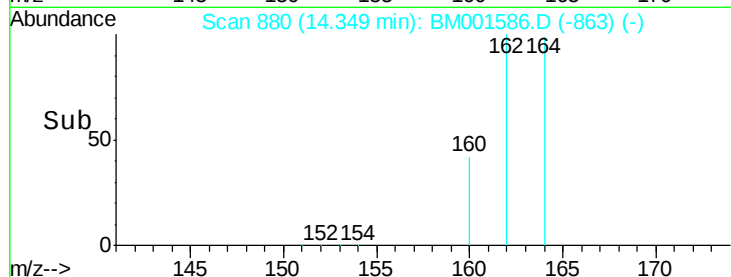
164 100

162 100.1 83.8 125.6

160 42.5 37.1 55.7

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#13

2,4,6-Tribromophenol

Concen: 13.07 ng

RT: 15.83 min Scan# 943

Delta R.T. -0.00 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

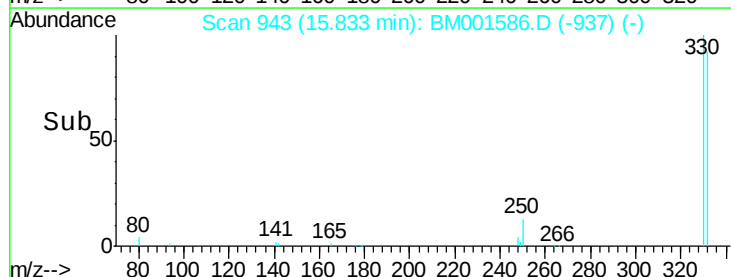
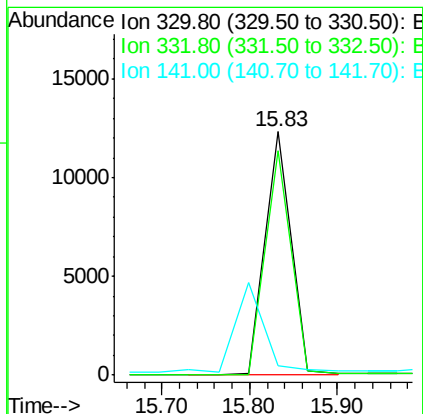
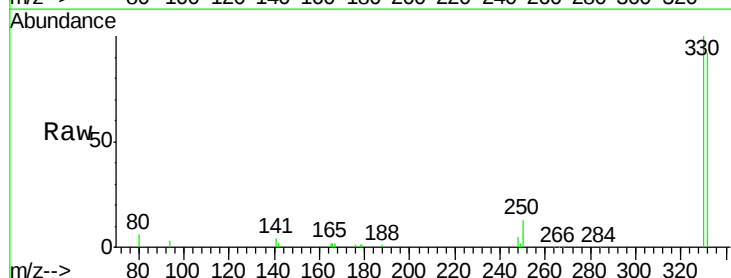
Tgt Ion:330 Resp: 25416

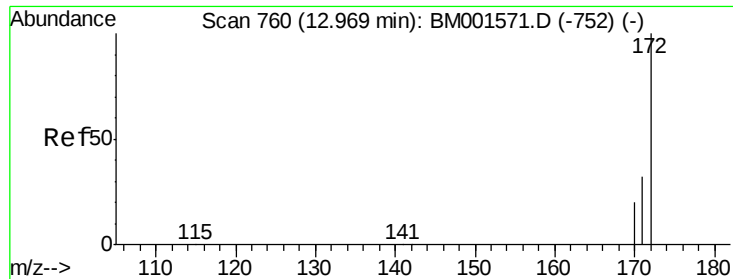
Ion Ratio Lower Upper

330 100

332 92.2 72.0 108.0

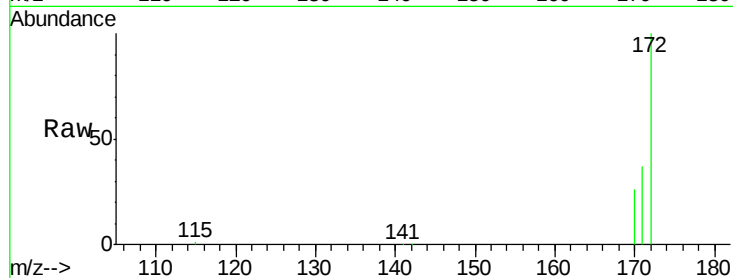
141 0.0 0.0 0.0





#14  
2-Fluorobiphenyl  
Concen: 5.95 ng  
RT: 12.96 min Scan# 759  
Delta R.T. -0.00 min  
Lab File: BM001586.D  
Acq: 06 Jun 2015 09:52

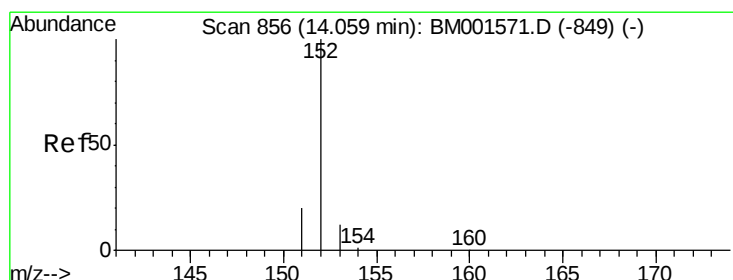
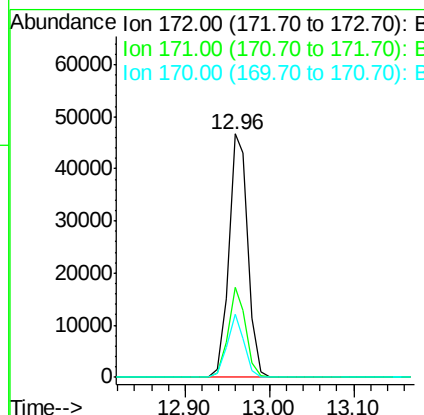
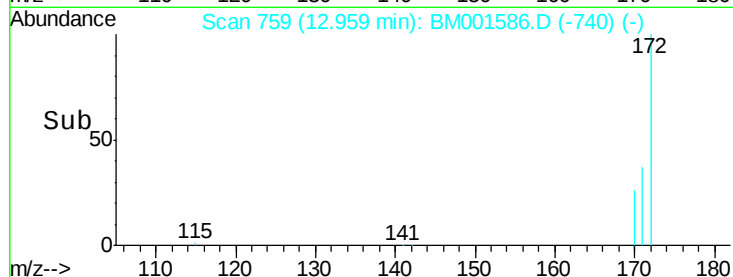
Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW007-150601



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 26.2  | 39.2  |
| 170     | 26.1  | 16.1  | 24.1  |

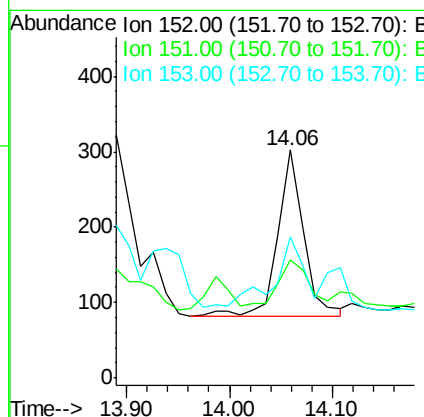
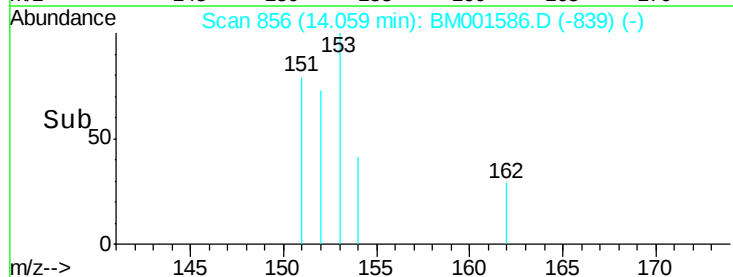
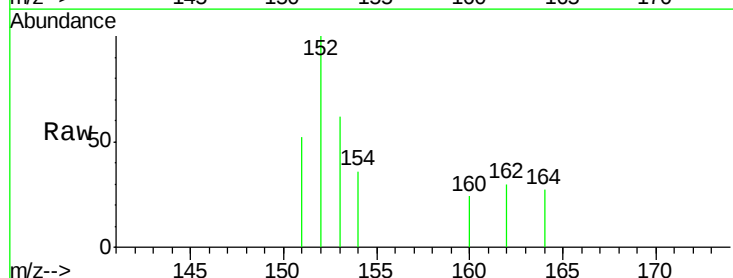
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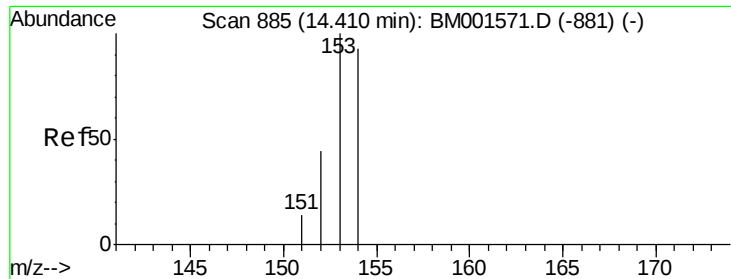
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#15  
Acenaphthylene  
Concen: 0.02 ng  
RT: 14.06 min Scan# 856  
Delta R.T. -0.00 min  
Lab File: BM001586.D  
Acq: 06 Jun 2015 09:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 27.9  | 15.2  | 22.8  |
| 153     | 45.6  | 10.3  | 15.5  |





#16

Acenaphthene

Concen: 0.17 ng

RT: 14.41 min Scan# 885

Delta R.T. -0.00 min

Lab File: BM001586.D

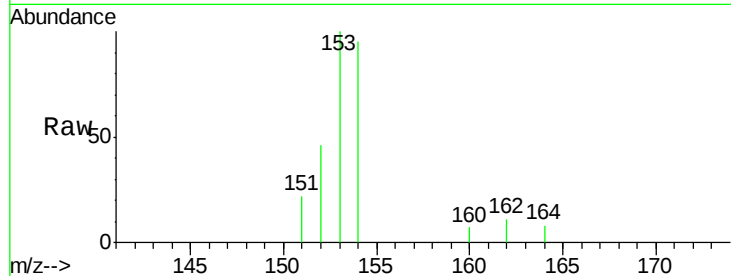
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

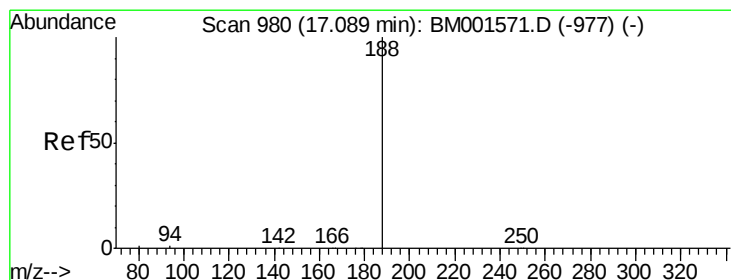
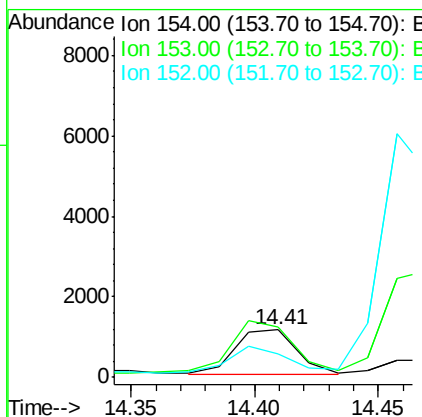
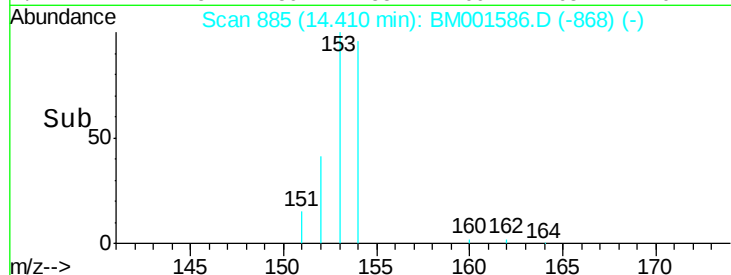
SS043MW007-150601



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 1903  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 123.2 | 89.1  | 133.7 |
| 152      | 60.8  | 43.2  | 64.8  |

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#18

Phenanthrene-d10

Concen: 5.00 ng

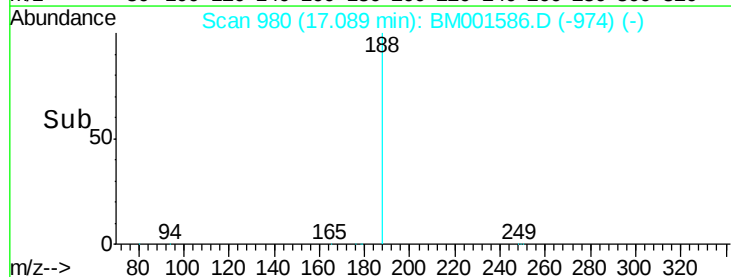
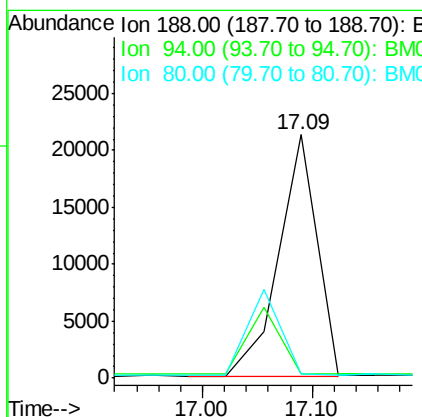
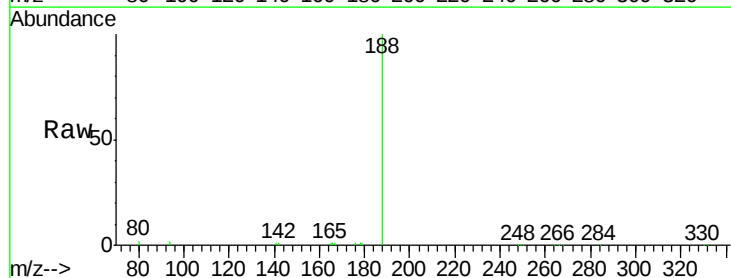
RT: 17.09 min Scan# 980

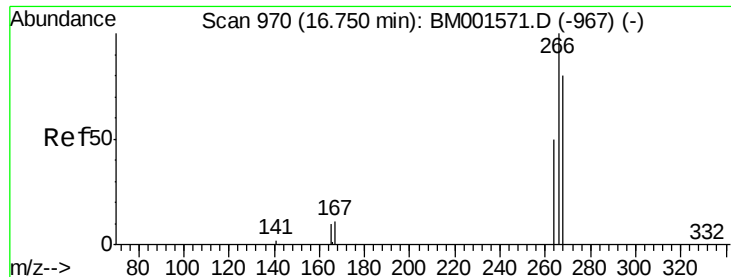
Delta R.T. -0.00 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 188   | Resp: | 51062 |
| Ion      | Ratio | Lower | Upper |
| 188      | 100   |       |       |
| 94       | 1.9   | 0.7   | 1.1#  |
| 80       | 1.6   | 0.6   | 1.0#  |





#21

Pentachlorophenol

Concen: 0.64 ng

RT: 16.75 min Scan# 970

Delta R.T. 0.03 min

Lab File: BM001586.D

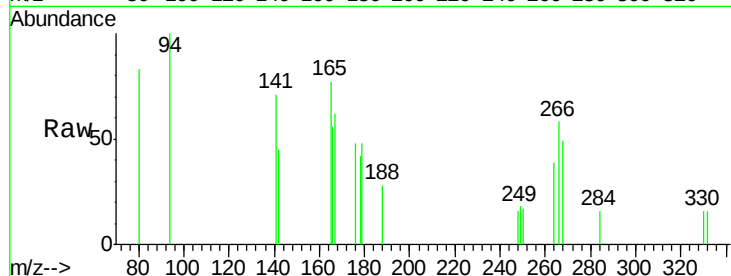
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

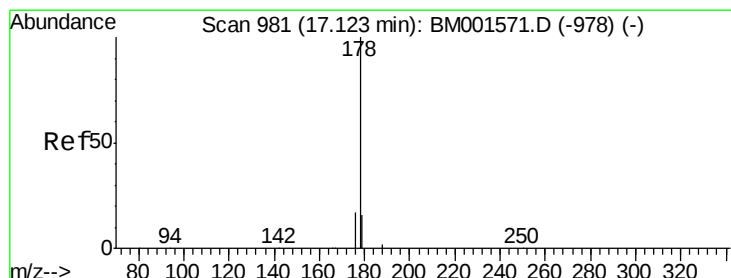
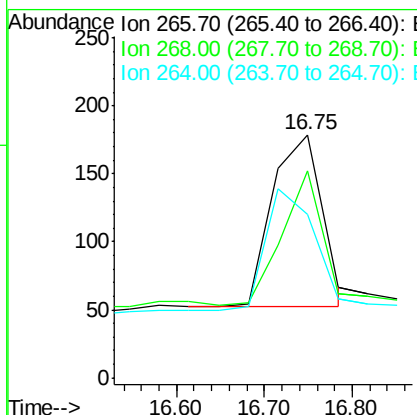
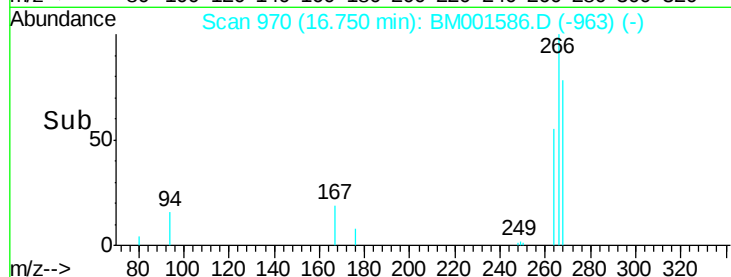
SS043MW007-150601



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 501  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 268       | 84.9  | 66.3  | 99.5 |
| 264       | 67.0  | 45.5  | 68.3 |

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#22

Phenanthrene

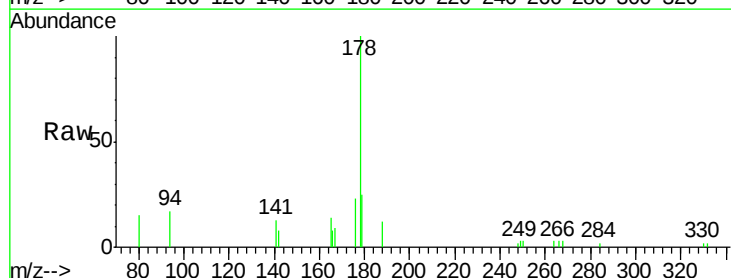
Concen: 0.23 ng

RT: 17.12 min Scan# 981

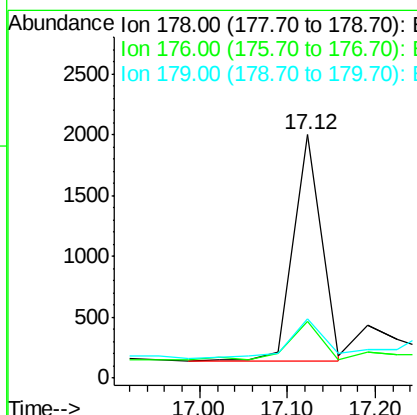
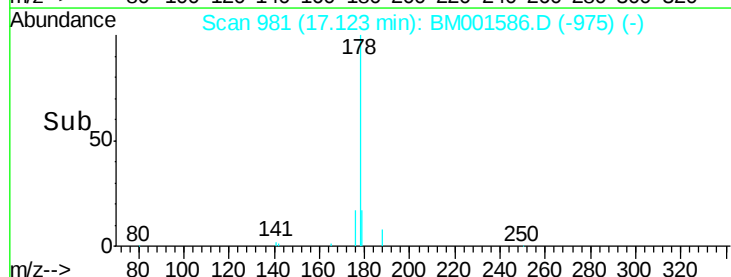
Delta R.T. -0.00 min

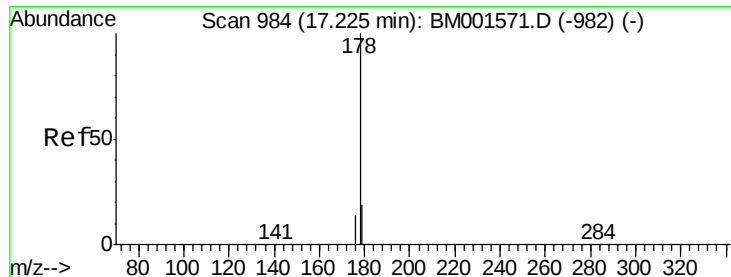
Lab File: BM001586.D

Acq: 06 Jun 2015 09:52



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 4084  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.2  | 13.5  | 20.3  |
| 179       | 21.6  | 13.3  | 19.9# |





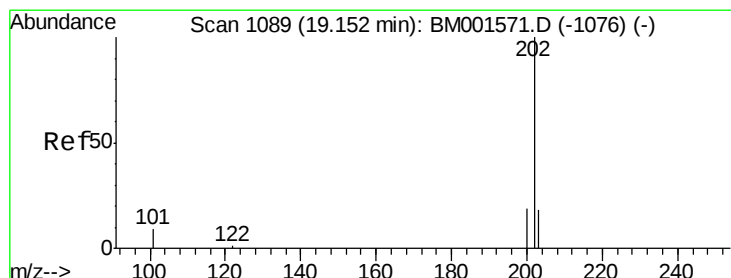
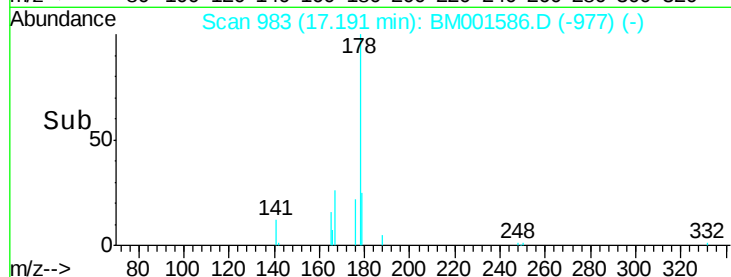
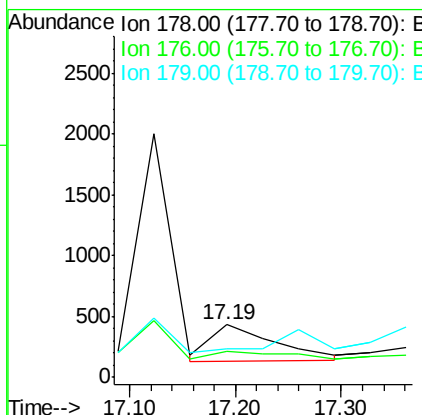
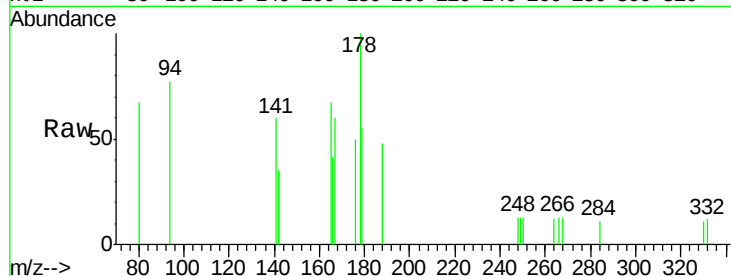
#23  
 Anthracene  
 Concen: 0.17 ng m  
 RT: 17.19 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: BM001586.D  
 Acq: 06 Jun 2015 09:52

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SS043MW007-150601

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 80.9  | 45.9  | 68.9# |
| 179     | 75.2  | 33.3  | 49.9# |

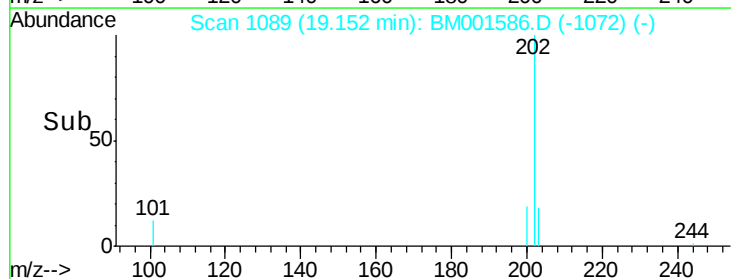
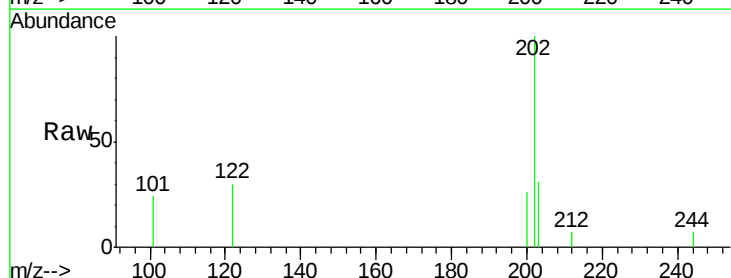
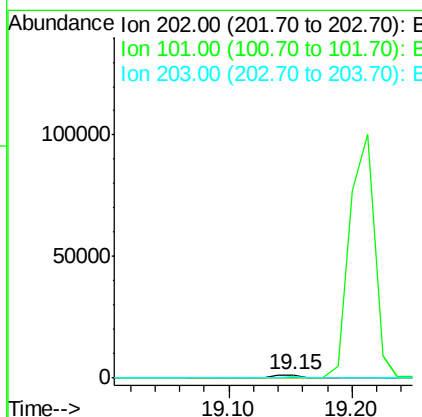
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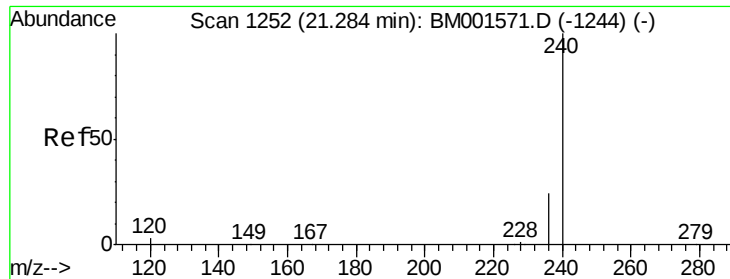
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#24  
 Fluoranthene  
 Concen: 0.14 ng  
 RT: 19.15 min Scan# 1089  
 Delta R.T. -0.00 min  
 Lab File: BM001586.D  
 Acq: 06 Jun 2015 09:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 10.0  | 15.0# |
| 203     | 17.0  | 13.9  | 20.9  |





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.28 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BM001586.D

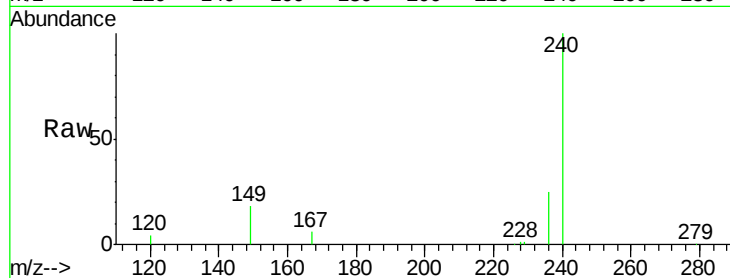
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

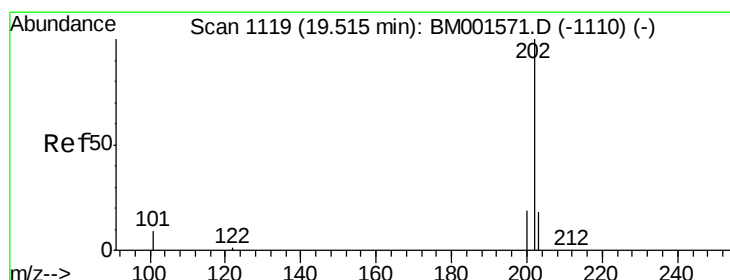
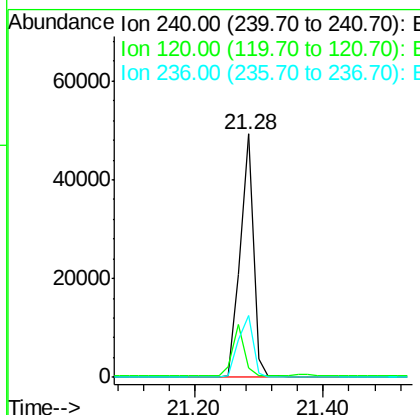
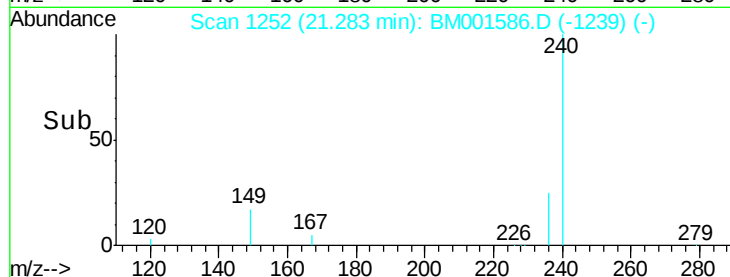
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 68942 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 4.0   | 2.2   | 3.2#  |
| 236       | 25.3  | 19.5  | 29.3  |

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#26

Pyrene

Concen: 0.07 ng

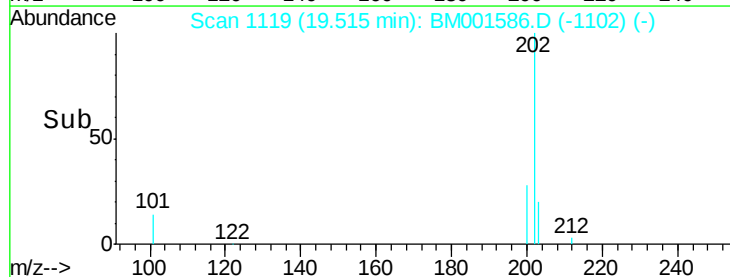
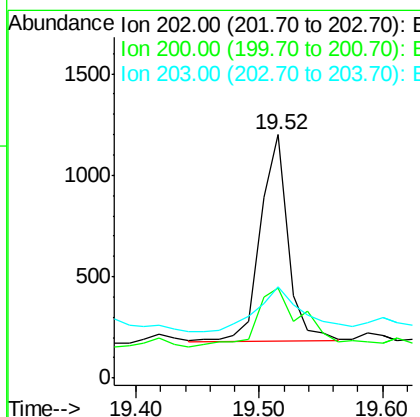
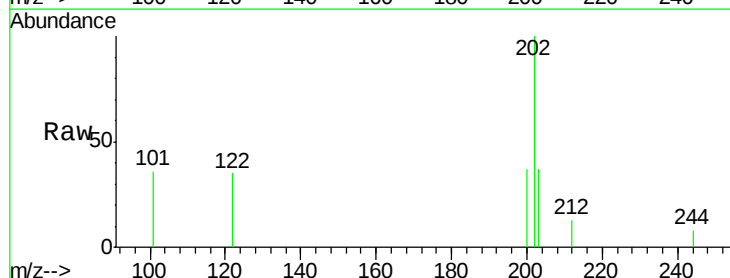
RT: 19.52 min Scan# 1119

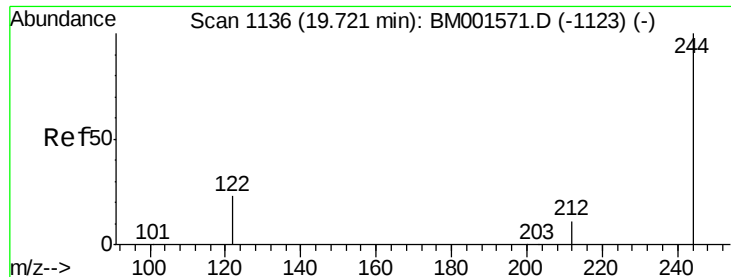
Delta R.T. -0.00 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 1609  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 48.1  | 16.6  | 24.8# |
| 203       | 36.3  | 13.9  | 20.9# |





#27

Terphenyl-d14

Concen: 7.75 ng

RT: 19.72 min Scan# 1136

Delta R.T. -0.00 min

Lab File: BM001586.D

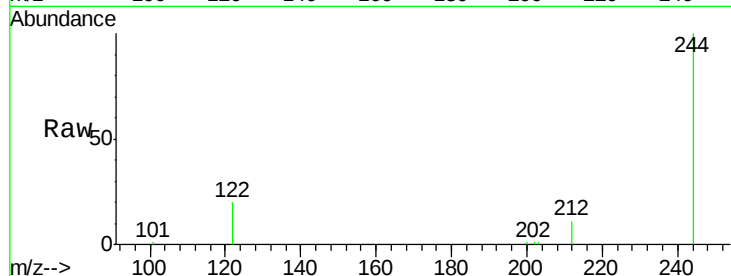
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

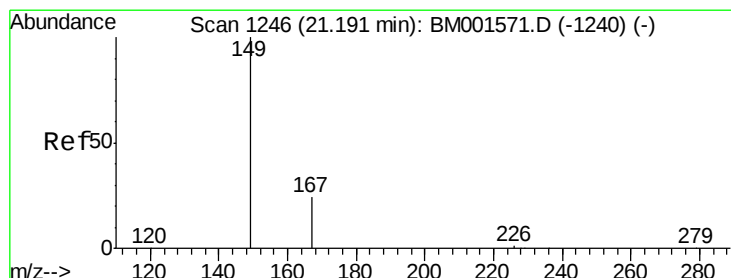
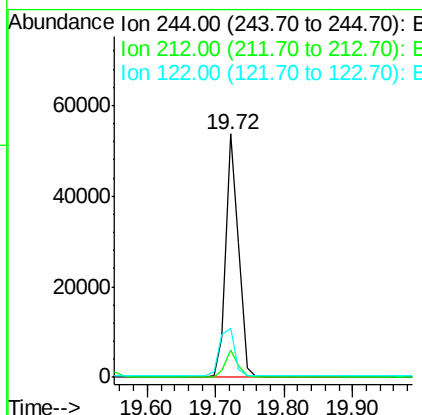
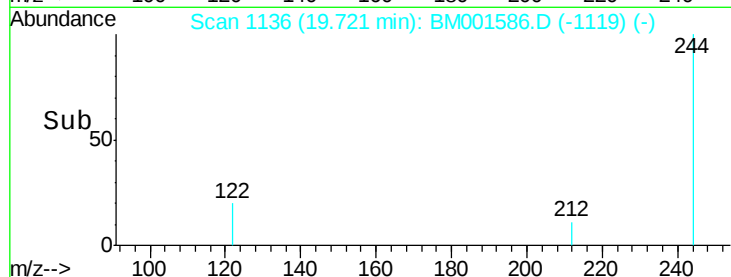
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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 69006 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 11.4  | 9.6   | 14.4  |
| 122       | 20.4  | 19.0  | 28.4  |

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#30

Bis(2-ethylhexyl)phthalate

Concen: 0.73 ng

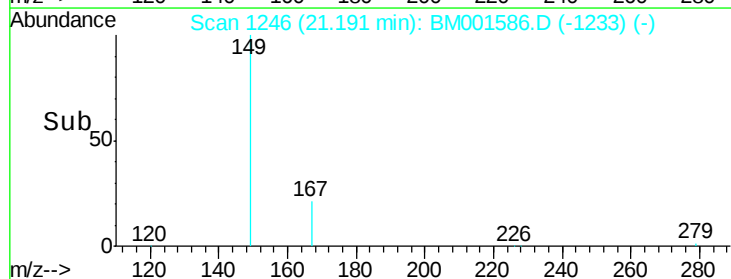
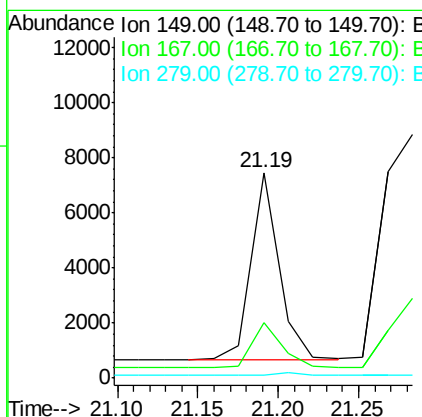
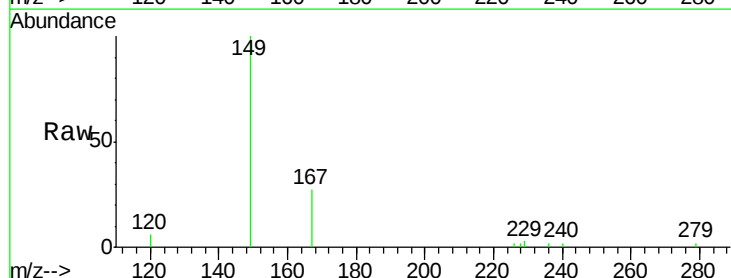
RT: 21.19 min Scan# 1246

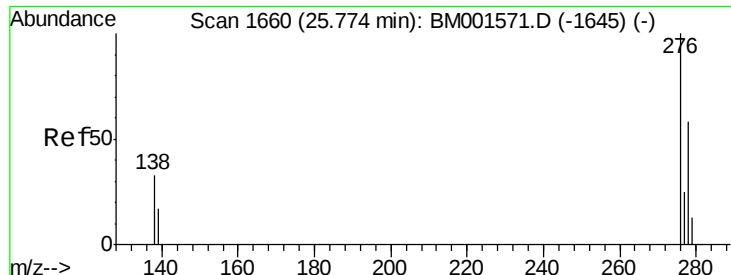
Delta R.T. -0.00 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 8281 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 26.1  | 20.2  | 30.2 |
| 279       | 2.1   | 1.8   | 2.6  |





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.07 ng

RT: 25.77 min Scan# 1660

Delta R.T. 0.01 min

Lab File: BM001586.D

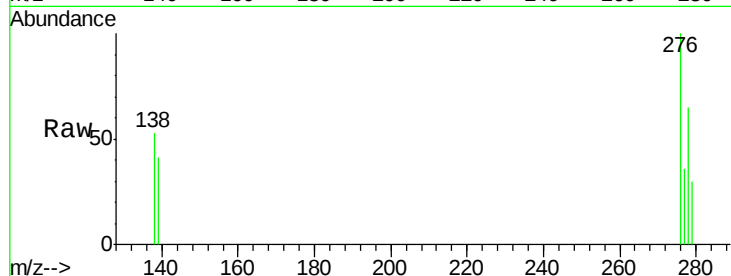
Acq: 06 Jun 2015 09:52

Instrument :

BNA\_M

ClientSampleId :

SS043MW007-150601



Tgt Ion:276 Resp: 1379

Ion Ratio Lower Upper

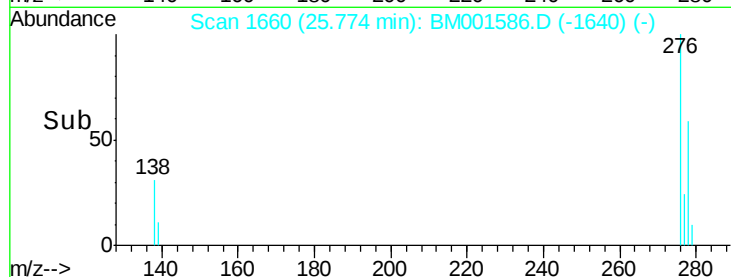
276 100

138 36.0 28.0 42.0

277 23.7 19.7 29.5

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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

25.77

400

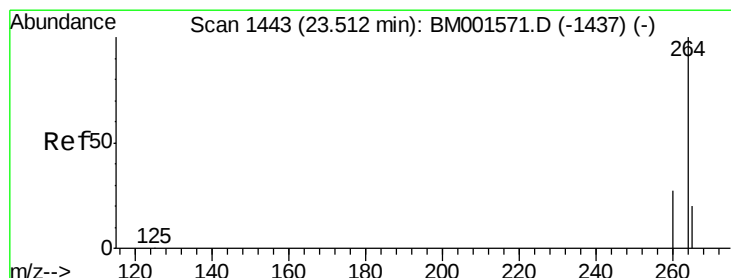
300

200

100

0

Time-->



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.52 min Scan# 1444

Delta R.T. 0.01 min

Lab File: BM001586.D

Acq: 06 Jun 2015 09:52

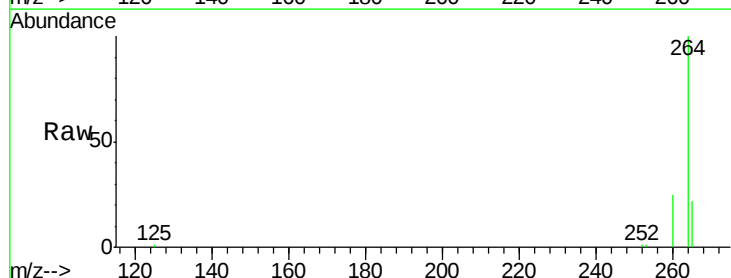
Tgt Ion:264 Resp: 63607

Ion Ratio Lower Upper

264 100

260 24.8 21.6 32.4

265 22.4 16.5 24.7



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

23.52

40000

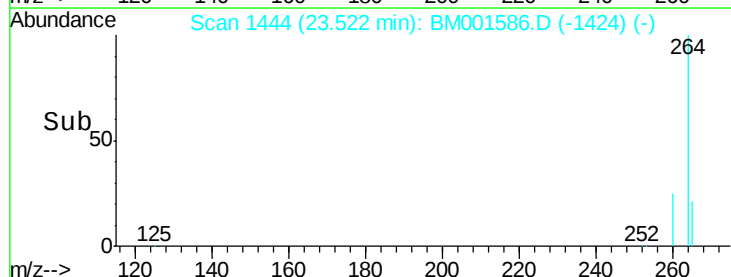
30000

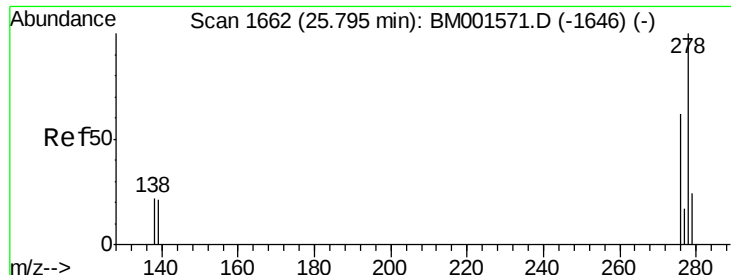
20000

10000

0

Time-->





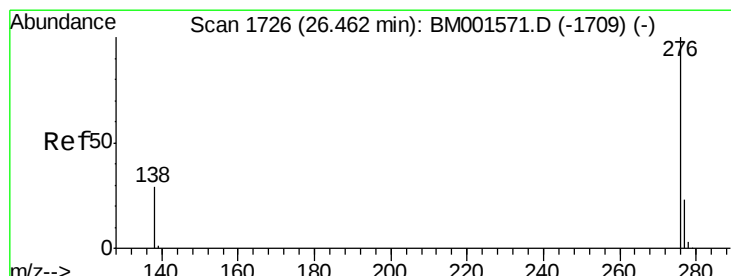
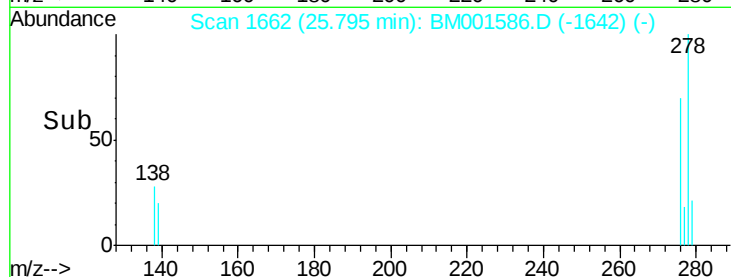
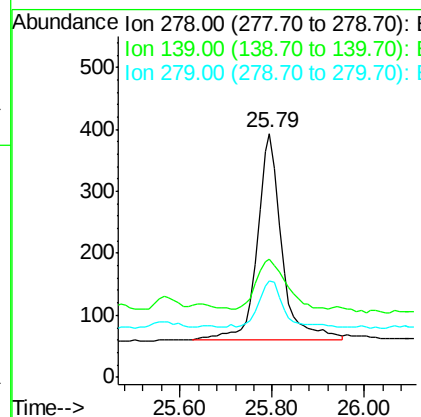
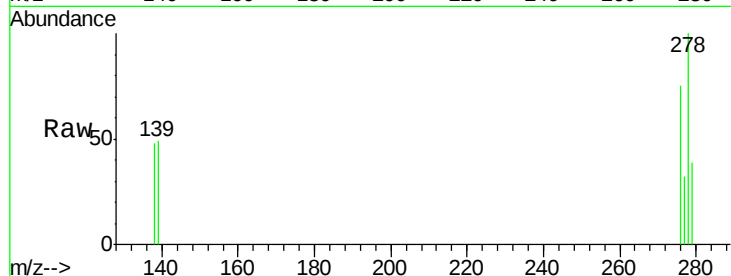
#36  
Dibenzo(a,h)anthracene  
Concen: 0.08 ng  
RT: 25.79 min Scan# 1662  
Delta R.T. 0.01 min  
Lab File: BM001586.D  
Acq: 06 Jun 2015 09:52

Instrument :  
BNA\_M  
ClientSampleId :  
SS043MW007-150601

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 48.6  | 17.4  | 26.0# |
| 279     | 39.4  | 20.0  | 30.0# |

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#37  
Benzo(g,h,i)perylene  
Concen: 0.06 ng  
RT: 26.46 min Scan# 1726  
Delta R.T. -0.00 min  
Lab File: BM001586.D  
Acq: 06 Jun 2015 09:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 36.8  | 19.2  | 28.8# |
| 138     | 49.6  | 23.7  | 35.5# |

