

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE090115\  
 Data File : BE090680.D  
 Acq On : 1 Sep 2015 23:33  
 Operator : UM/IZ  
 Sample : G3462-03  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW-4

Manual Integrations  
 APPROVED

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 9/2/2015 4:08:07 PM

Quant Time: Sep 02 12:09:20 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 11:40:50 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.55  | 152  | 43482    | 5.00  | ng    | 0.00     |
| 6) Naphthalene-d8              | 10.30 | 136  | 225418   | 5.00  | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.17 | 164  | 132347   | 5.00  | ng    | 0.00     |
| 18) Phenanthrene-d10           | 16.91 | 188  | 327557   | 5.00  | ng    | 0.00     |
| 25) Chrysene-d12               | 21.07 | 240  | 412543   | 5.00  | ng    | 0.00     |
| 32) Perylene-d12               | 23.36 | 264  | 389737   | 5.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.18  | 112  | 20762    | 2.46  | ng    | 0.00     |
| 5) Phenol-d6                   | 6.75  | 99   | 23265    | 1.92  | ng    | 0.00     |
| 7) Nitrobenzene-d5             | 8.69  | 82   | 37982    | 2.55  | ng    | -0.01    |
| 13) 2,4,6-Tribromophenol       | 15.67 | 330  | 49154    | 12.56 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl           | 12.79 | 172  | 115534   | 3.15  | ng    | 0.00     |
| 27) Terphenyl-d14              | 19.53 | 244  | 278629   | 6.10  | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.15  | 88   | 32245    | 5.73  | ng    | 95       |
| 9) Naphthalene                 | 10.35 | 128  | 63191    | 1.29  | ng    | 100      |
| 11) 2-Methylnaphthalene        | 11.97 | 142  | 7546     | 0.28  | ng    | 98       |
| 15) Acenaphthylene             | 13.88 | 152  | 5309     | 0.03  | ng    | # 85     |
| 16) Acenaphthene               | 14.23 | 154  | 24894    | 0.70  | ng    | 91       |
| 17) Fluorene                   | 15.22 | 166  | 24490    | 0.56  | ng    | # 95     |
| 21) Pentachlorophenol          | 16.58 | 266  | 1165     | 0.70  | ng    | 95       |
| 22) Phenanthrene               | 16.94 | 178  | 123977   | 1.53  | ng    | 99       |
| 23) Anthracene                 | 17.05 | 178  | 63116m   | 0.93  | ng    |          |
| 24) Fluoranthene               | 18.96 | 202  | 49275    | 0.58  | ng    | 98       |
| 26) Pyrene                     | 19.32 | 202  | 63971    | 0.75  | ng    | 98       |
| 28) Benzo(a)anthracene         | 21.05 | 228  | 9363     | 0.09  | ng    | # 72     |
| 30) Bis(2-ethylhexyl)phthalate | 21.00 | 149  | 13063    | 0.60  | ng    | # 98     |

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

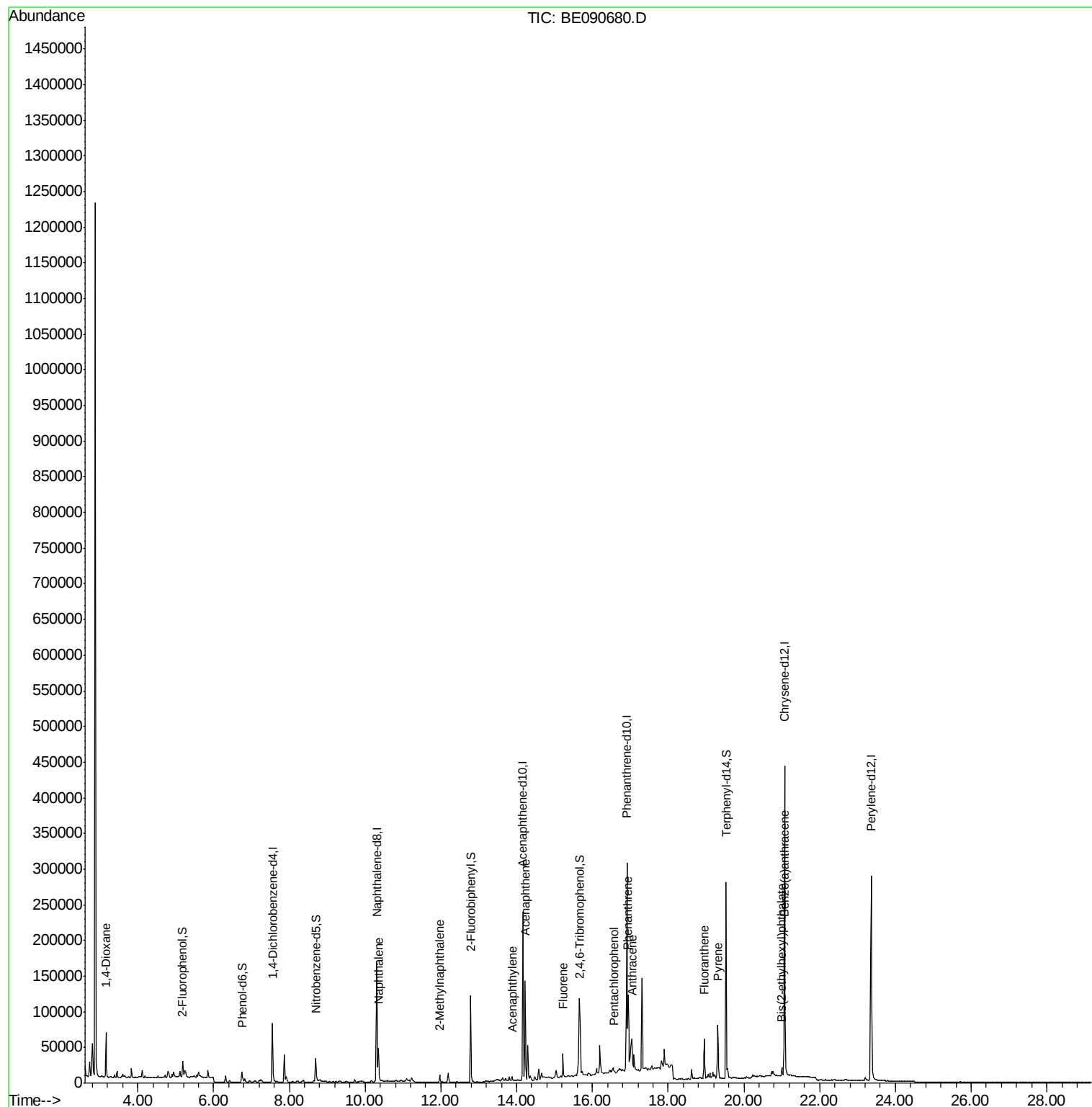
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE090115\  
Data File : BE090680.D  
Acq On : 1 Sep 2015 23:33  
Operator : UM/IZ  
Sample : G3462-03  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

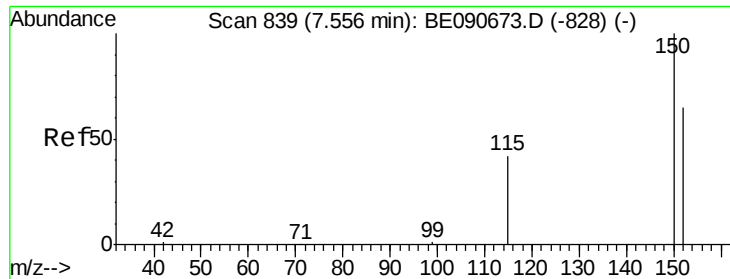
Instrument :  
BNA\_E  
ClientSampleId :  
MW-4

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Quant Time: Sep 02 12:09:20 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 02 11:40:50 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 838

Delta R.T. -0.01 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

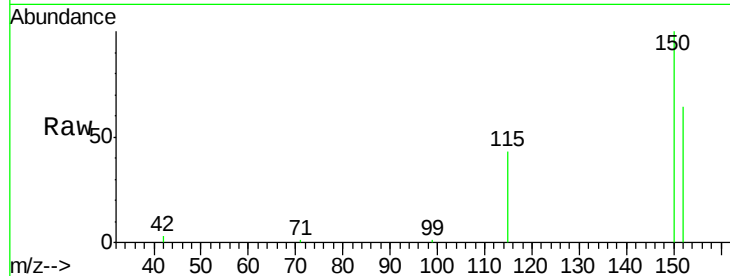
ClientSampled :

MW-4

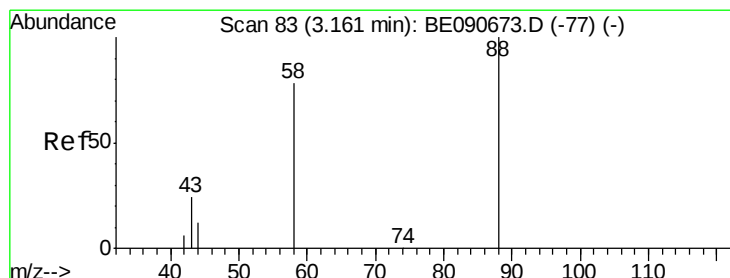
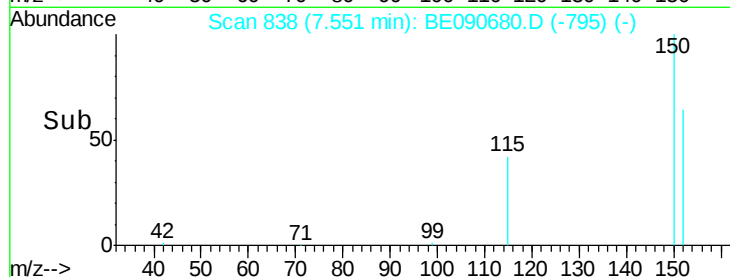
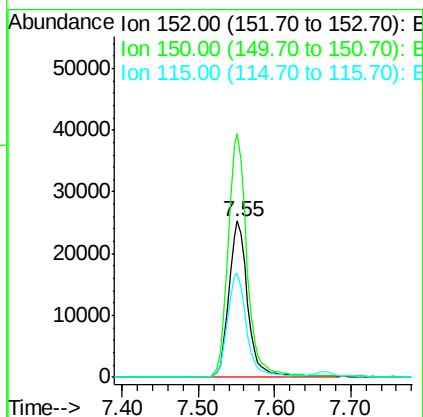
Manual Integrations  
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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 43482 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 155.6 | 122.2 | 183.4 |
| 115      | 66.2  | 51.0  | 76.4  |



#2

1,4-Dioxane

Concen: 5.73 ng

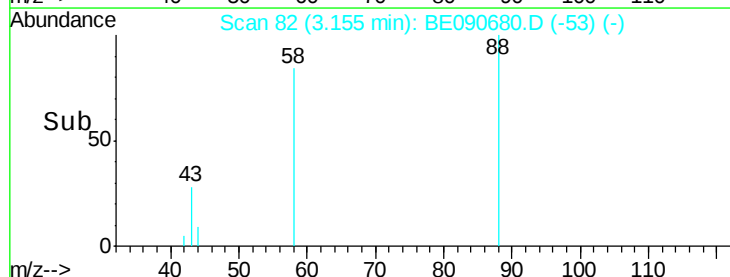
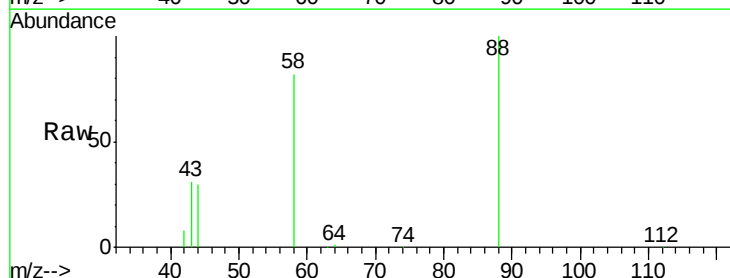
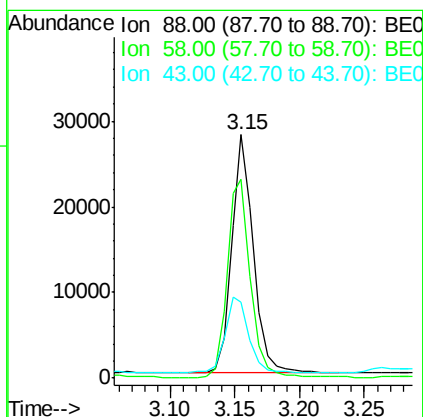
RT: 3.15 min Scan# 82

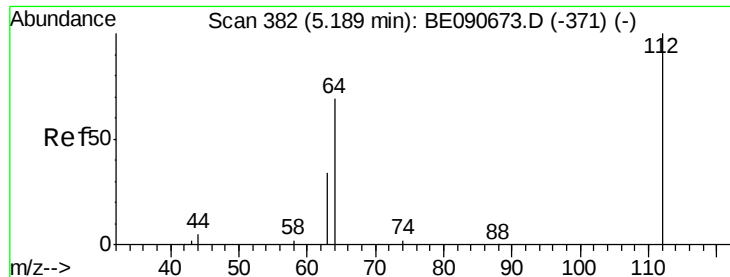
Delta R.T. -0.01 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 32245 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 90.1  | 68.4  | 102.6 |
| 43       | 35.8  | 26.9  | 40.3  |





#4

2-Fluorophenol

Concen: 2.46 ng

RT: 5.18 min Scan# 381

Delta R.T. -0.01 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

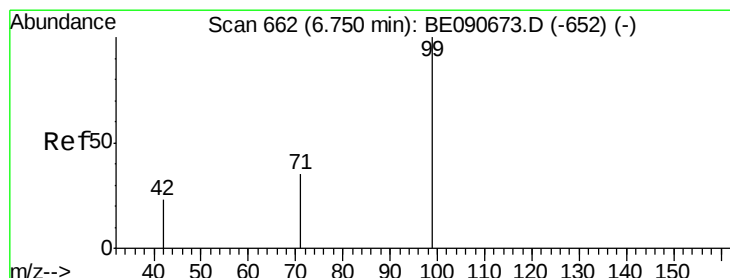
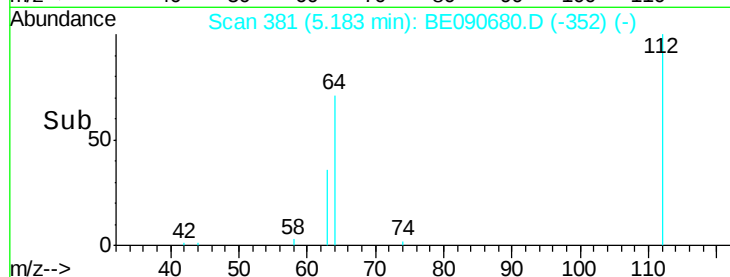
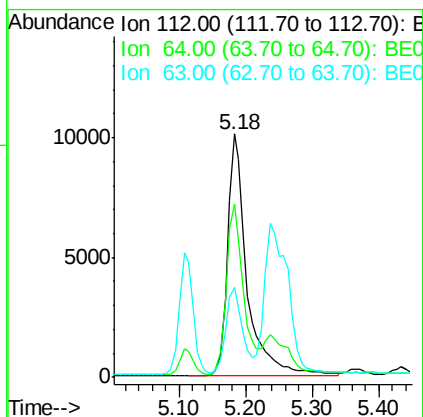
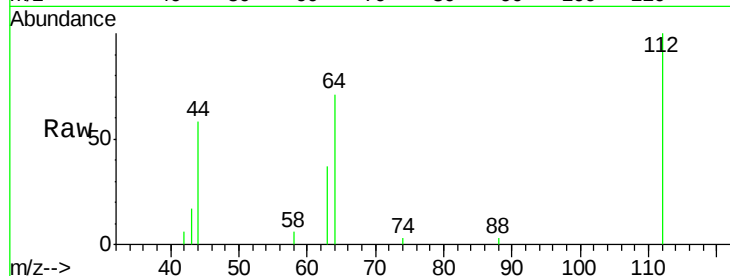
ClientSampled :

MW-4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 20762 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 60.4  | 57.3  | 85.9  |
| 63        | 30.0  | 29.2  | 43.8  |

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#5

Phenol-d6

Concen: 1.92 ng

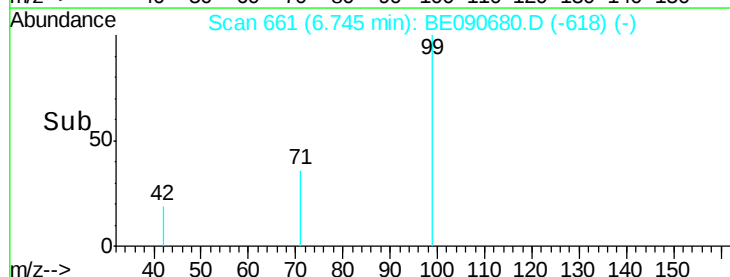
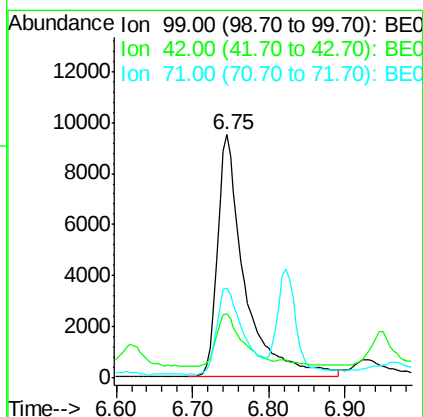
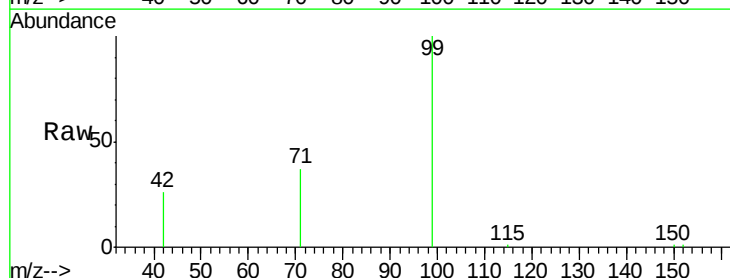
RT: 6.75 min Scan# 661

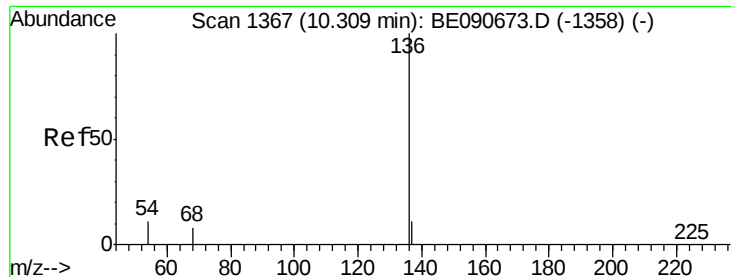
Delta R.T. -0.01 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 23265 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 21.7  | 16.8  | 25.2  |
| 71        | 35.1  | 28.3  | 42.5  |





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.30 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BE090680.D

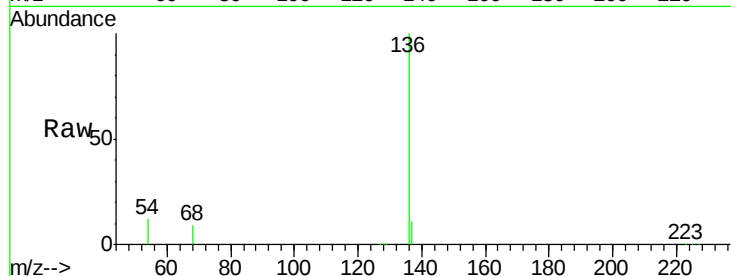
Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

ClientSampleId :

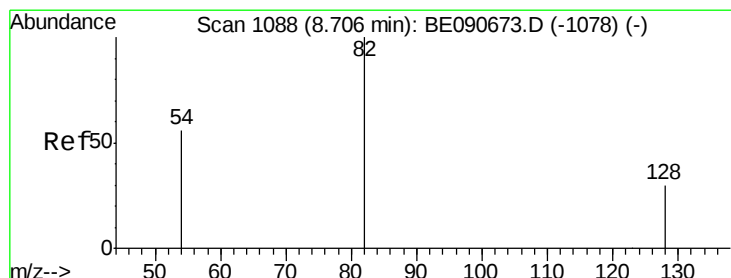
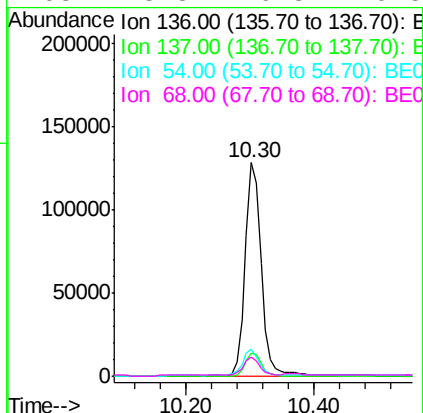
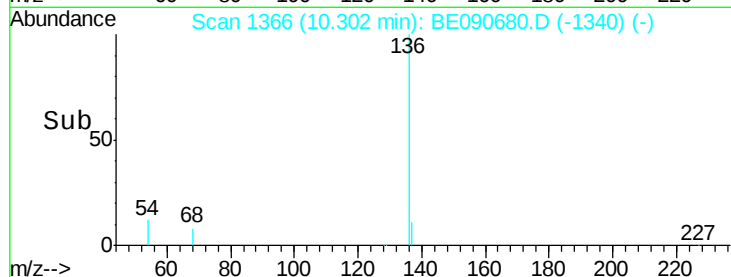
MW-4



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 225418 |       |       |
| 137     | 11.1  | 8.7    | 13.1  |       |
| 54      | 12.5  | 9.0    | 13.6  |       |
| 68      | 8.8   | 6.3    | 9.5   |       |

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#7

Nitrobenzene-d5

Concen: 2.55 ng

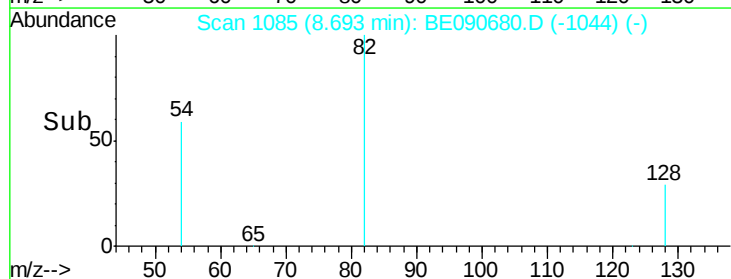
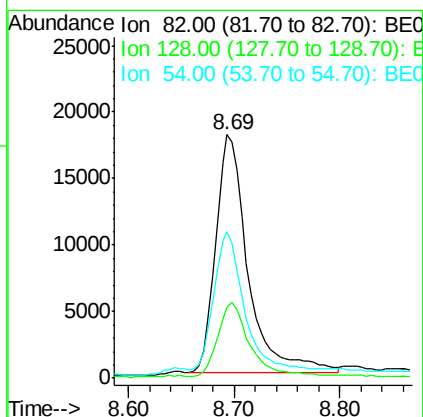
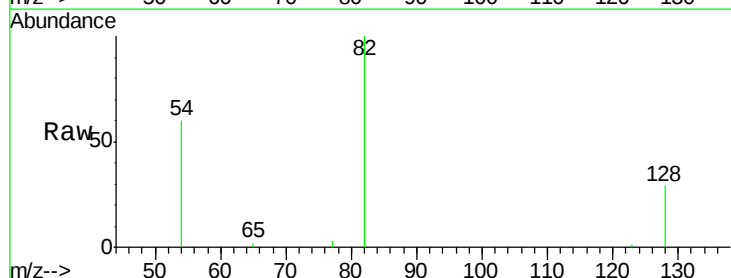
RT: 8.69 min Scan# 1085

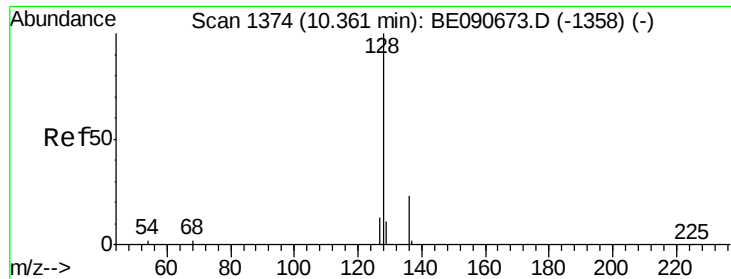
Delta R.T. -0.01 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 82      | 100   | 37982 |       |       |
| 128     | 29.3  | 25.0  | 37.4  |       |
| 54      | 59.9  | 46.3  | 69.5  |       |





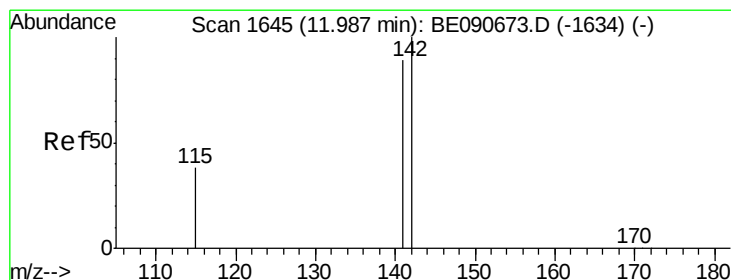
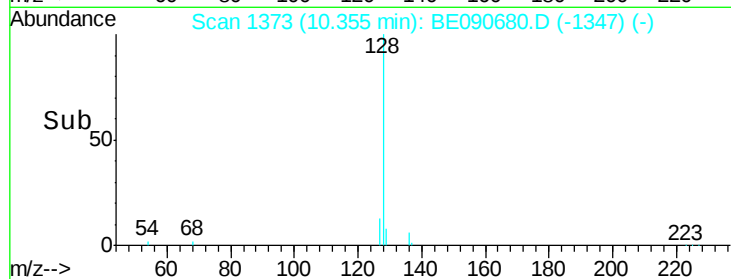
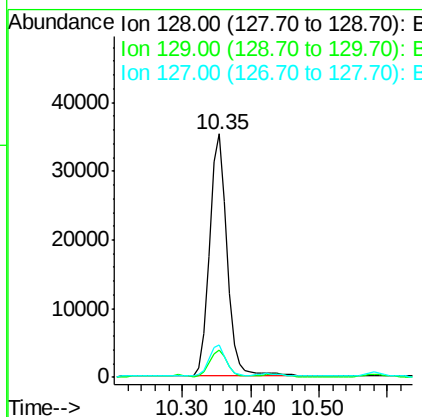
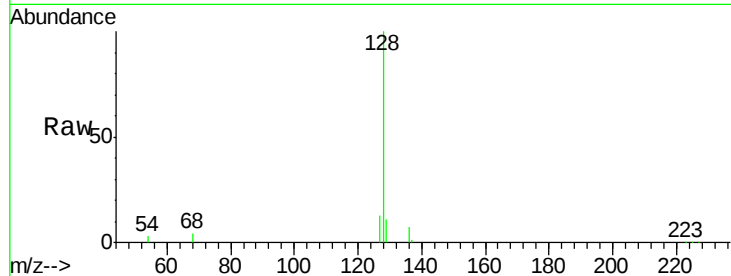
#9  
Naphthalene  
Concen: 1.29 ng  
RT: 10.35 min Scan# 1373  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

Instrument :  
BNA\_E  
ClientSampleId :  
MW-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.2  | 9.0   | 13.6  |
| 127     | 13.3  | 10.6  | 15.8  |

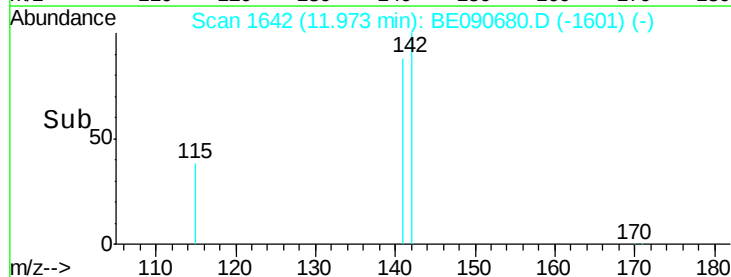
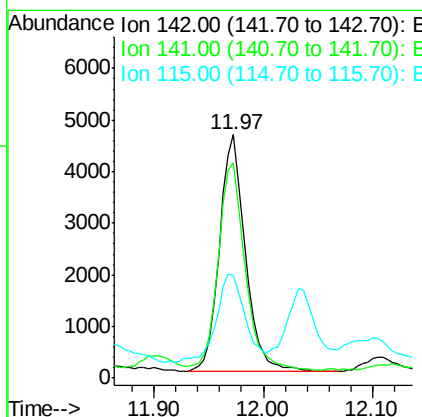
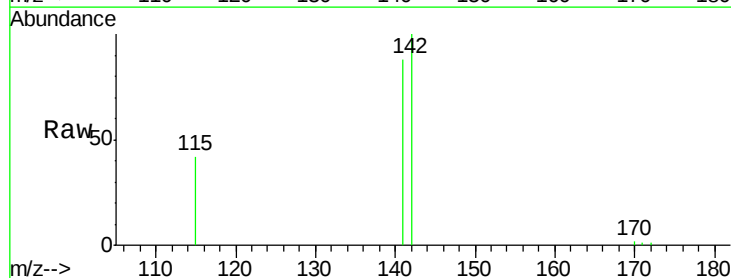
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#11  
2-Methylnaphthalene  
Concen: 0.28 ng  
RT: 11.97 min Scan# 1642  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.4  | 71.4  | 107.2 |
| 115     | 42.3  | 31.0  | 46.4  |





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 2070

Delta R.T. 0.00 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

ClientSampleId :

MW-4

Tgt Ion:164 Resp: 132347

Ion Ratio Lower Upper

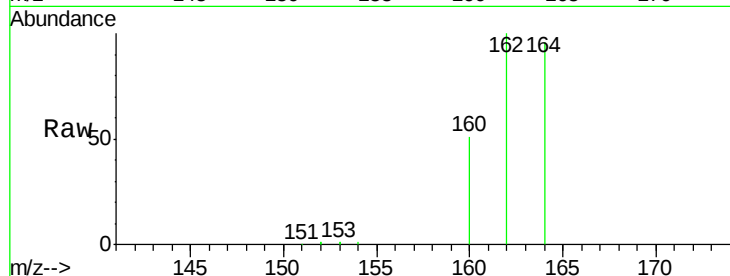
164 100

162 103.8 86.8 130.2

160 52.5 53.9 80.9#

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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

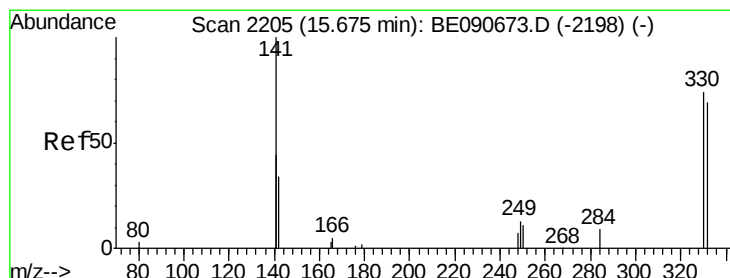
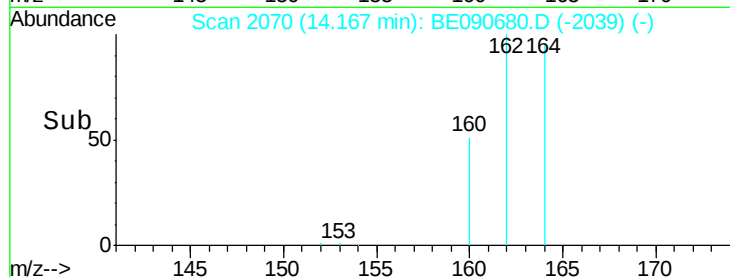
40000

20000

0

14.10 14.17 14.20

Time-->



#13

2,4,6-Tribromophenol

Concen: 12.56 ng

RT: 15.67 min Scan# 2204

Delta R.T. -0.00 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

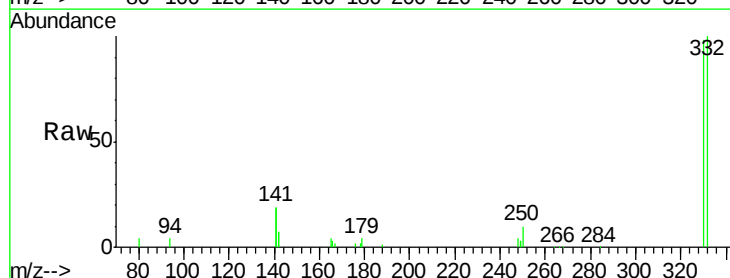
Tgt Ion:330 Resp: 49154

Ion Ratio Lower Upper

330 100

332 97.1 74.9 112.3

141 193.9 145.2 217.8



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

80000

60000

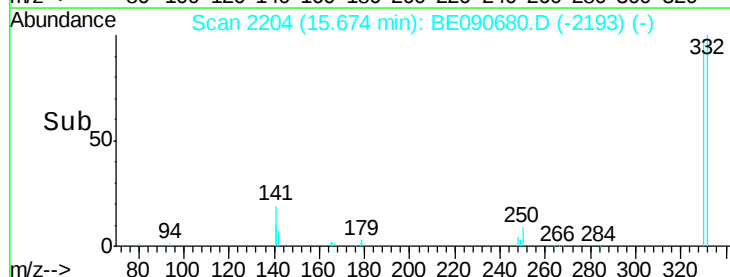
40000

20000

0

15.60 15.67 15.80

Time-->





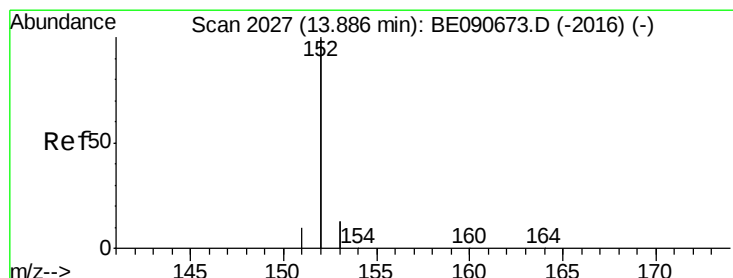
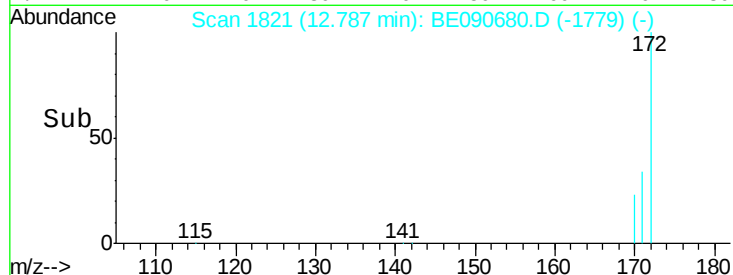
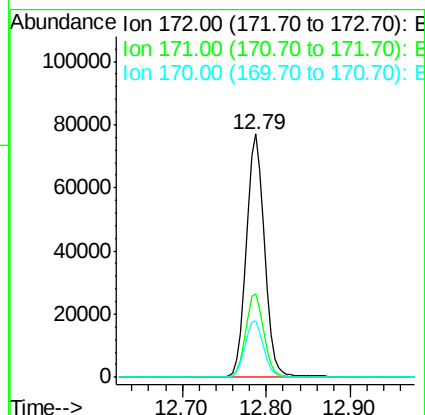
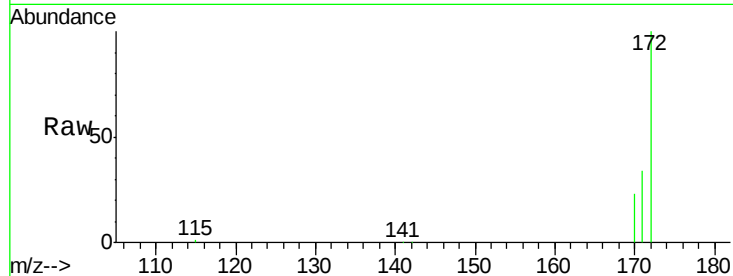
#14  
2-Fluorobiphenyl  
Concen: 3.15 ng  
RT: 12.79 min Scan# 1821  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

Instrument :  
BNA\_E  
ClientSampleId :  
MW-4

Tgt Ion:172 Resp: 115534  
Ion Ratio Lower Upper  
172 100  
171 34.2 27.8 41.8  
170 23.4 19.8 29.6

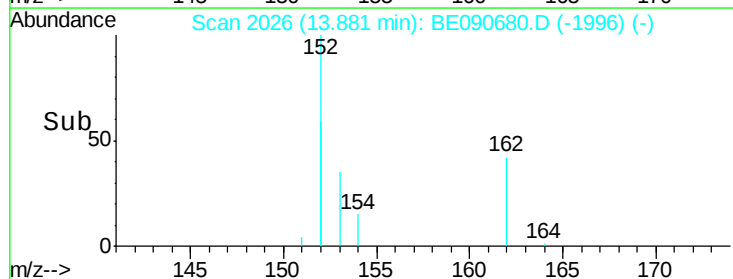
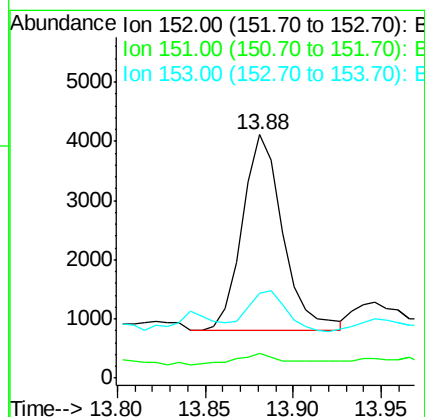
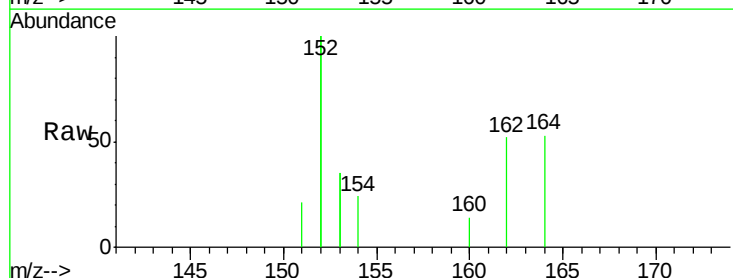
Manual Integrations  
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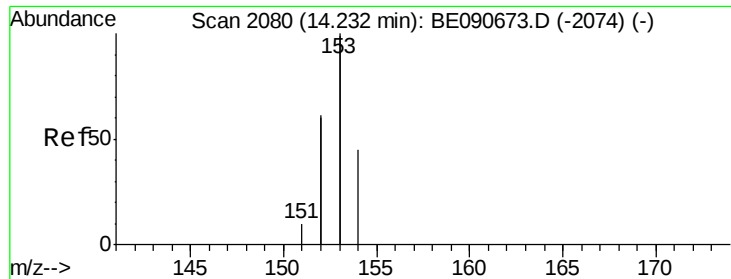
MMDadoda  
9/2/2015 4:08:07 PM



#15  
Acenaphthylene  
Concen: 0.03 ng  
RT: 13.88 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

Tgt Ion:152 Resp: 5309  
Ion Ratio Lower Upper  
152 100  
151 6.8 3.9 5.9#  
153 20.2 10.3 15.5#





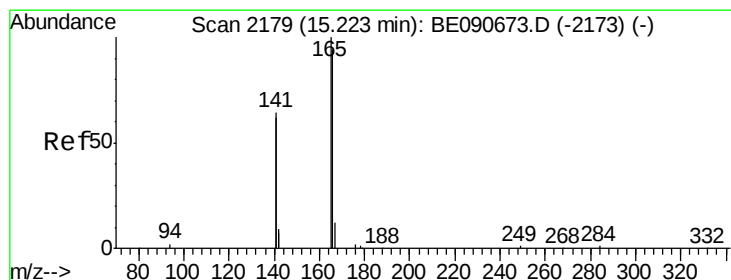
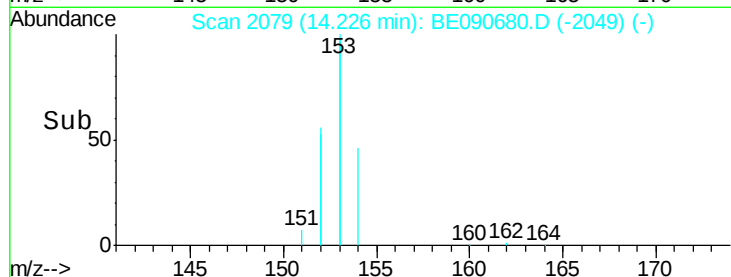
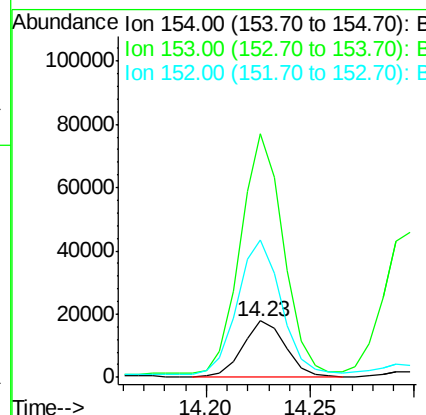
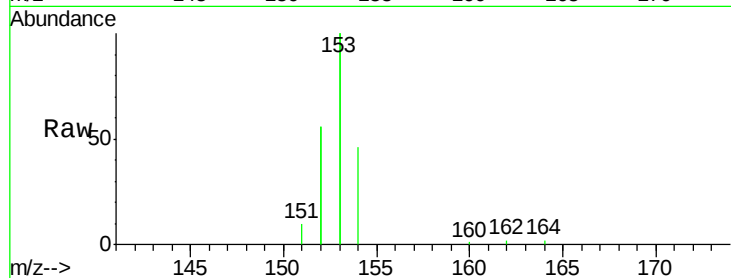
#16  
Acenaphthene  
Concen: 0.70 ng  
RT: 14.23 min Scan# 2079  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

Instrument :  
BNA\_E  
ClientSampleId :  
MW-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 436.0 | 354.5 | 531.7 |
| 152     | 248.0 | 227.8 | 341.6 |

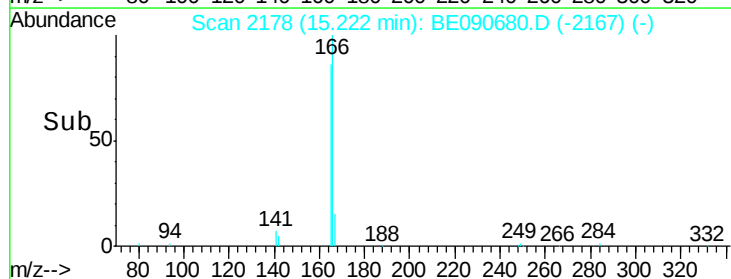
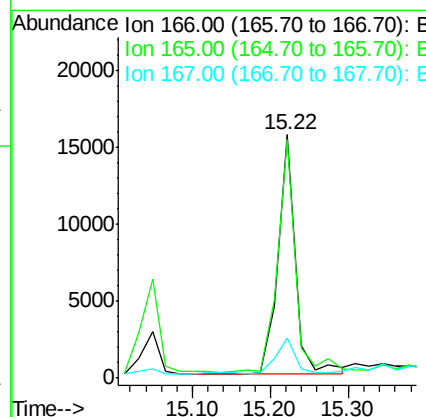
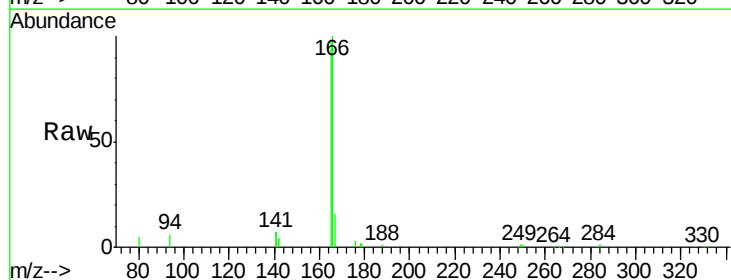
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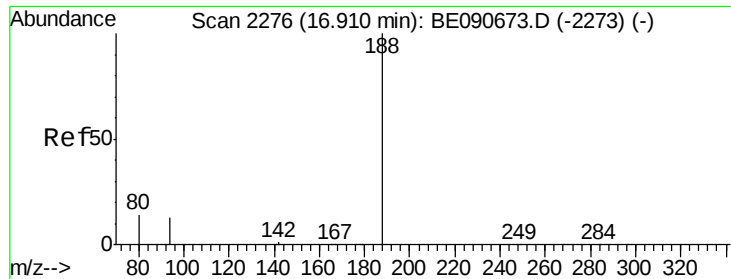
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#17  
Fluorene  
Concen: 0.56 ng  
RT: 15.22 min Scan# 2178  
Delta R.T. -0.00 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.5  | 82.7  | 124.1 |
| 167     | 18.4  | 10.7  | 16.1# |





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.91 min Scan# 2275

Delta R.T. -0.00 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

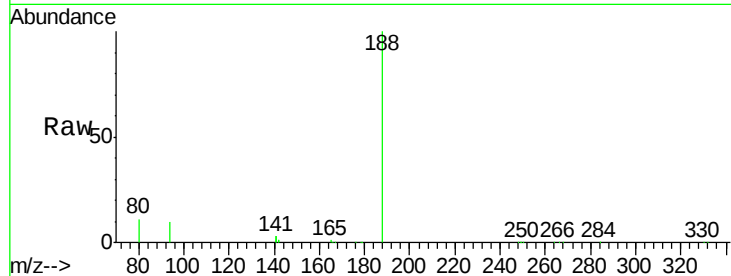
ClientSampleId :

MW-4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 327557 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.1  | 10.3  | 15.5#  |
| 80        | 10.6  | 11.0  | 16.6#  |

Manual Integrations  
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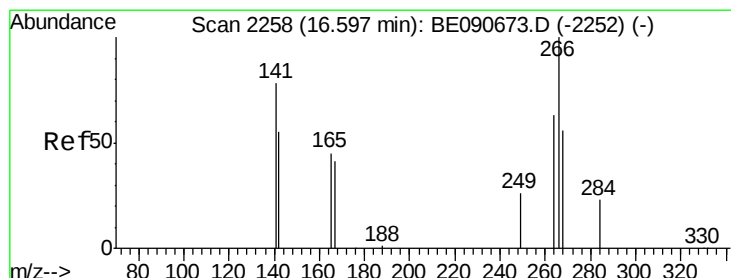
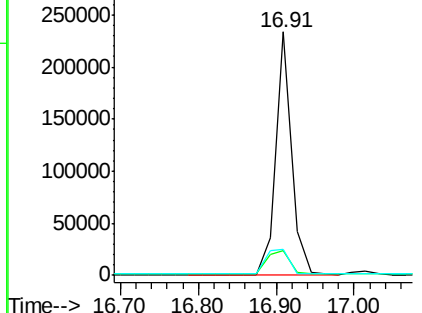
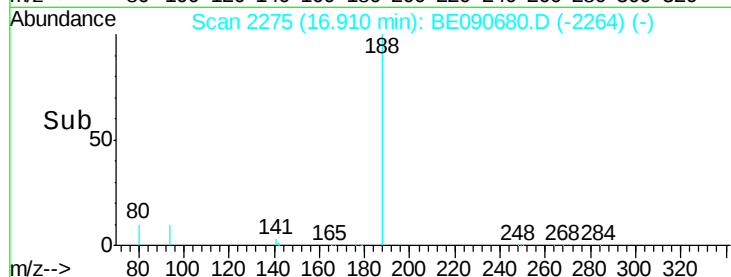
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#21

Pentachlorophenol

Concen: 0.70 ng

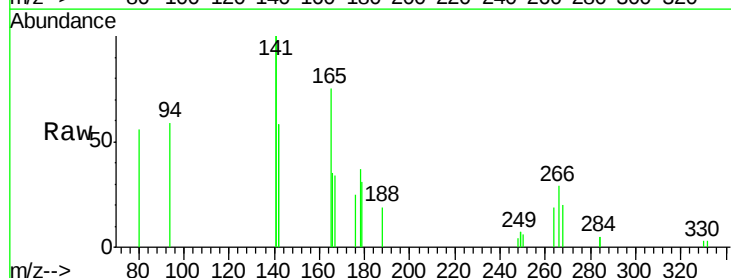
RT: 16.58 min Scan# 2256

Delta R.T. -0.02 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

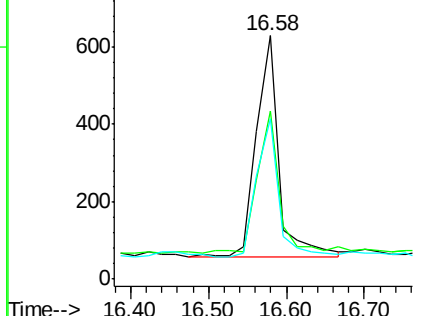
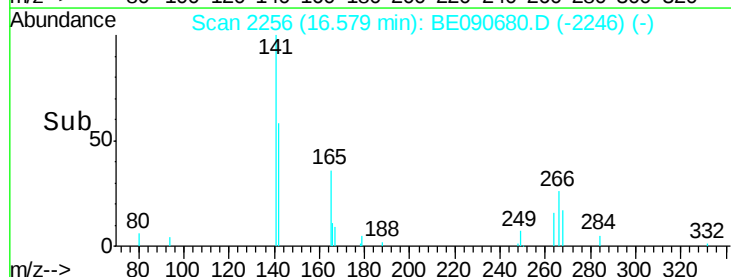
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 1165 |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 268       | 68.8  | 49.6  | 74.4 |
| 264       | 66.0  | 53.9  | 80.9 |

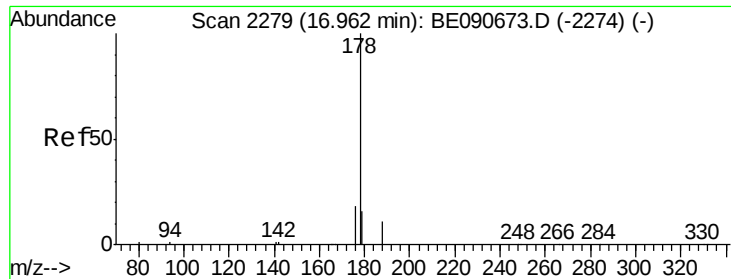


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 1.53 ng

RT: 16.94 min Scan# 2277

Delta R.T. -0.02 min

Lab File: BE090680.D

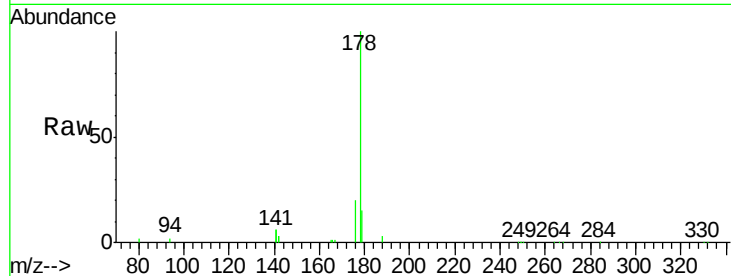
Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

ClientSampled :

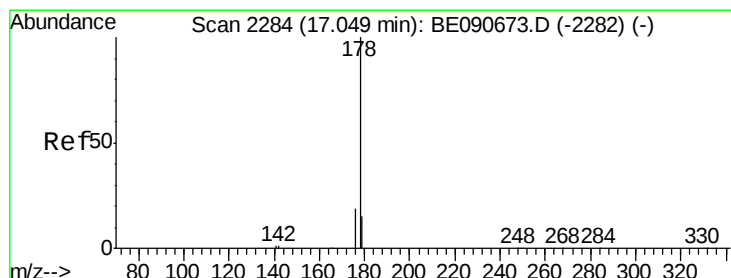
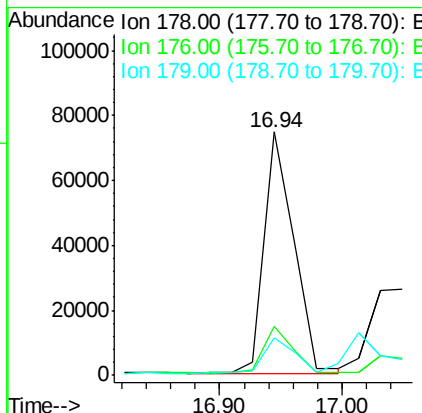
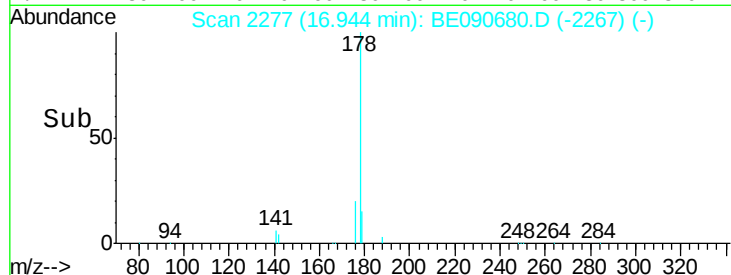
MW-4



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 123977 |       |       |
| 176     | 18.9  | 15.6   | 23.4  |       |
| 179     | 15.8  | 12.8   | 19.2  |       |

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#23

Anthracene

Concen: 0.93 ng m

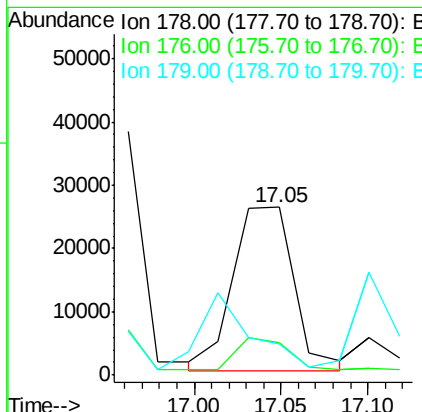
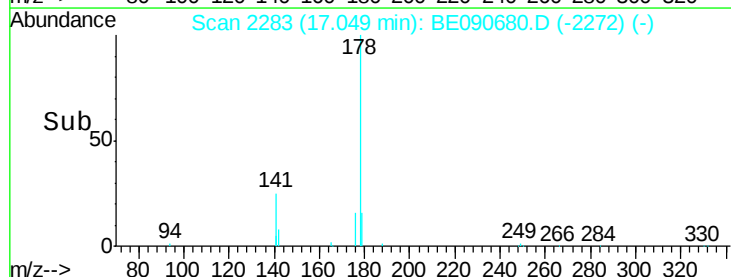
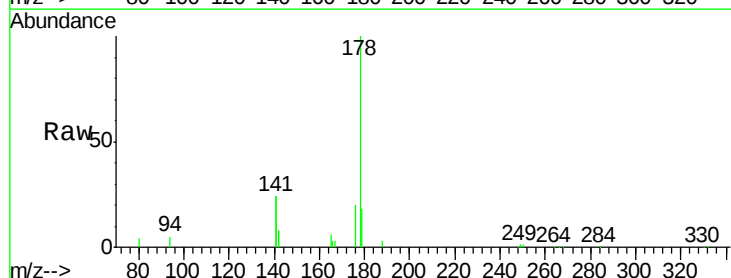
RT: 17.05 min Scan# 2283

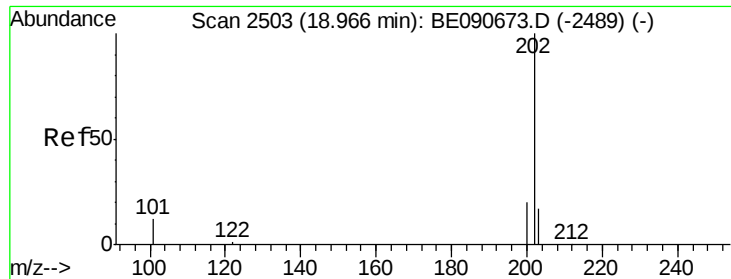
Delta R.T. -0.00 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 63116 |       |       |
| 176     | 37.1  | 15.0  | 22.6# |       |
| 179     | 29.5  | 12.3  | 18.5# |       |





#24

Fluoranthene

Concen: 0.58 ng

RT: 18.96 min Scan# 2500

Delta R.T. -0.01 min

Lab File: BE090680.D

Acq: 1 Sep 2015 23:33

Instrument :

BNA\_E

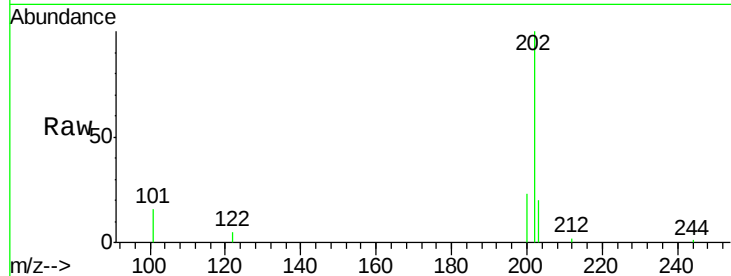
ClientSampleId :

MW-4

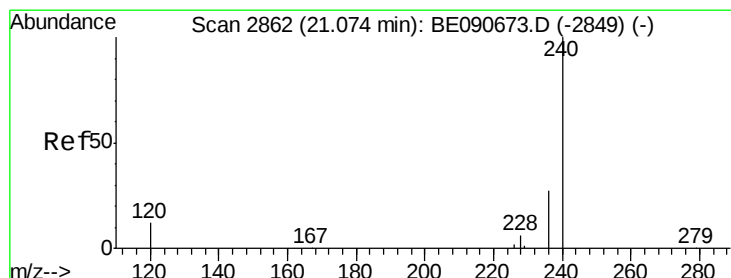
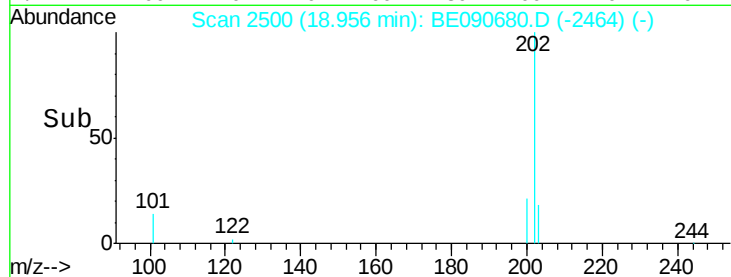
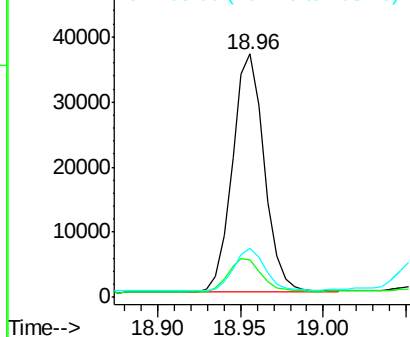
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 49275 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 15.7  | 11.0  | 16.6  |
| 203       | 17.3  | 13.9  | 20.9  |

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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



#25

Chrysene-d12

Concen: 5.00 ng

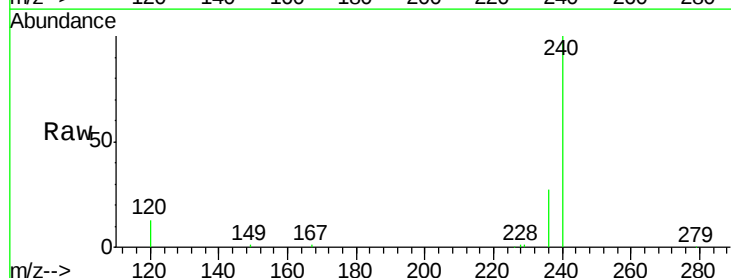
RT: 21.07 min Scan# 2860

Delta R.T. -0.00 min

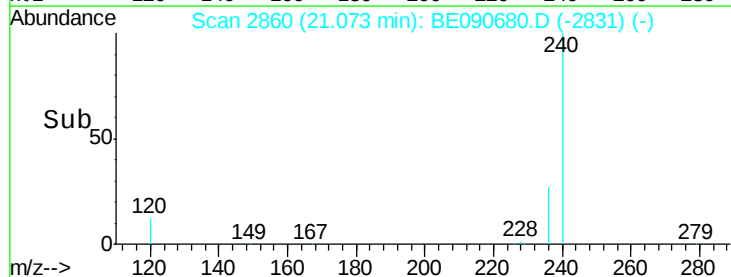
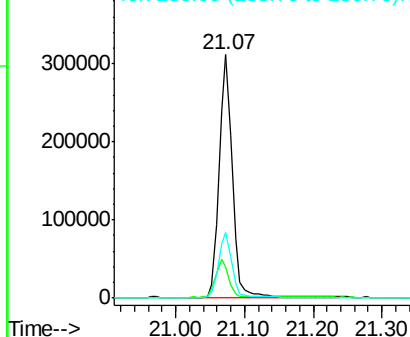
Lab File: BE090680.D

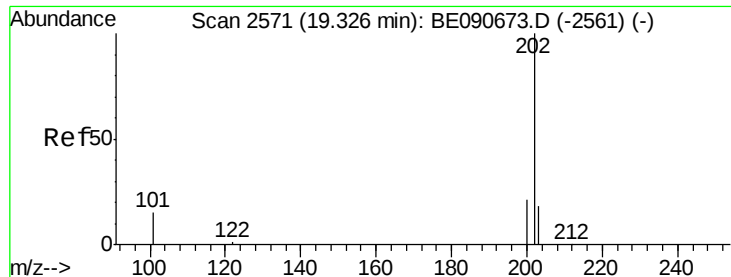
Acq: 1 Sep 2015 23:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 412543 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.5  | 10.1  | 15.1   |
| 236       | 27.0  | 21.9  | 32.9   |



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





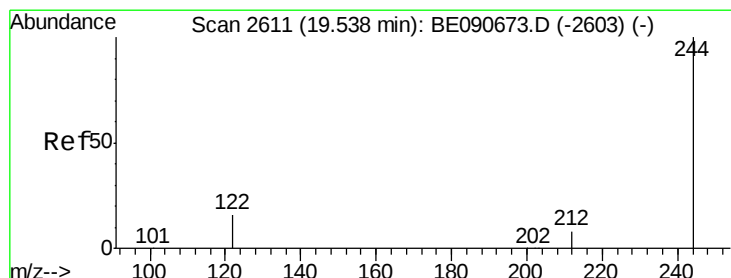
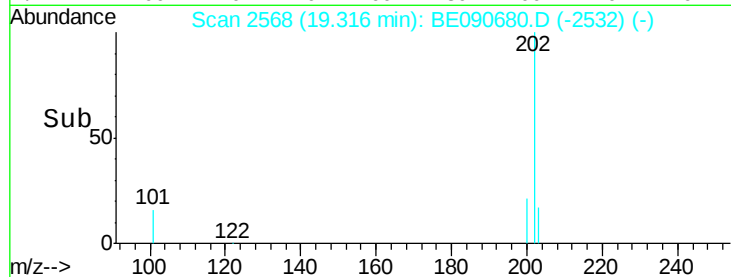
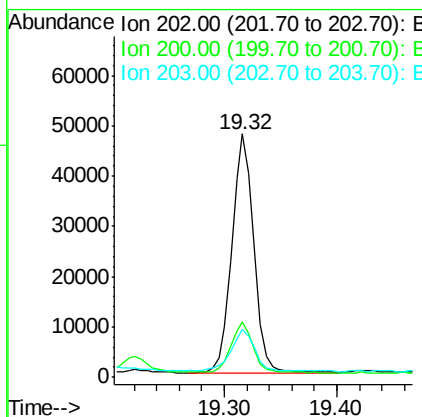
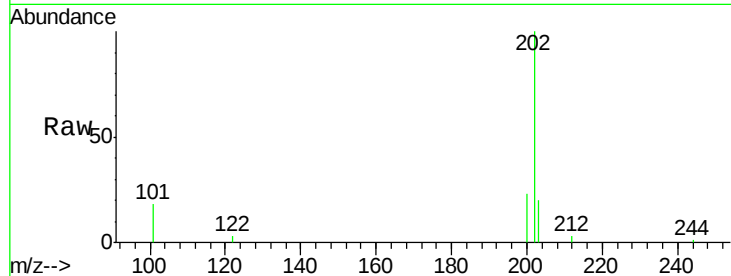
#26  
 Pyrene  
 Concen: 0.75 ng  
 RT: 19.32 min Scan# 2568  
 Delta R.T. -0.01 min  
 Lab File: BE090680.D  
 Acq: 1 Sep 2015 23:33

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW-4

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 63971 |       |       |
| 200     | 21.7  |       | 16.7  | 25.1  |
| 203     | 18.7  |       | 13.8  | 20.6  |

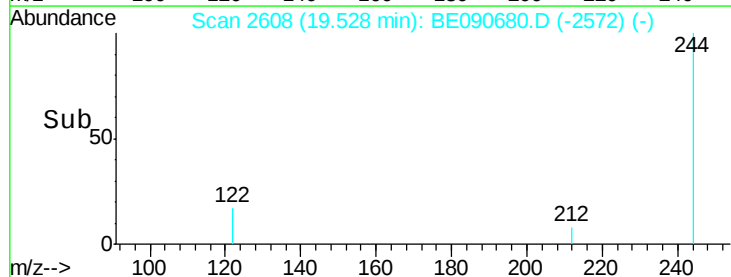
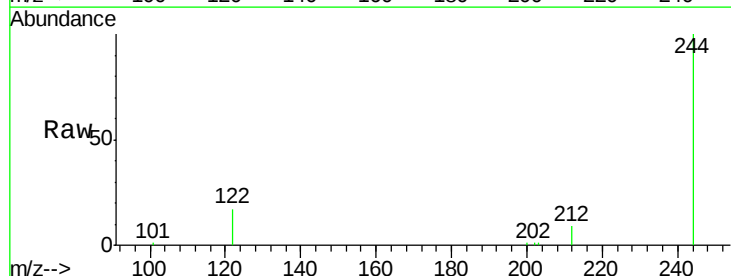
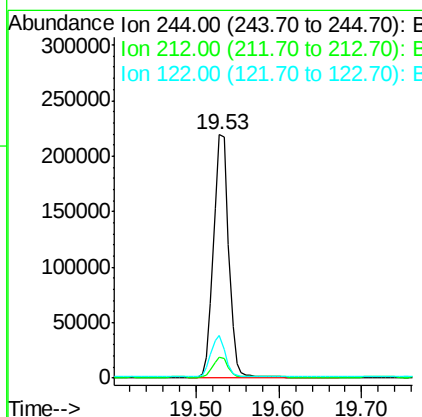
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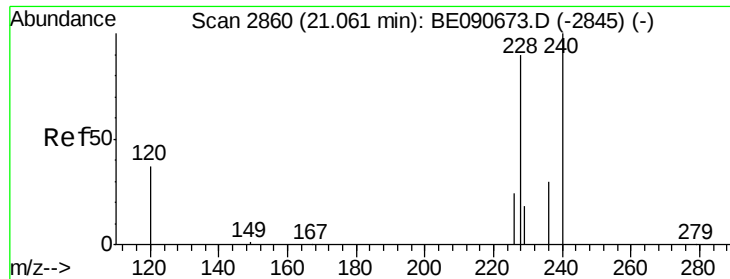
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#27  
 Terphenyl-d14  
 Concen: 6.10 ng  
 RT: 19.53 min Scan# 2608  
 Delta R.T. -0.01 min  
 Lab File: BE090680.D  
 Acq: 1 Sep 2015 23:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 278629 |       |       |
| 212     | 8.6   |        | 6.9   | 10.3  |
| 122     | 17.4  |        | 12.9  | 19.3  |





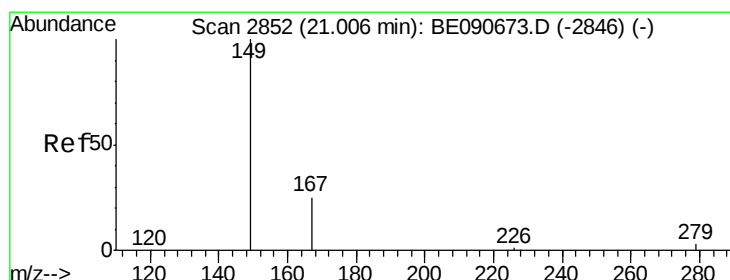
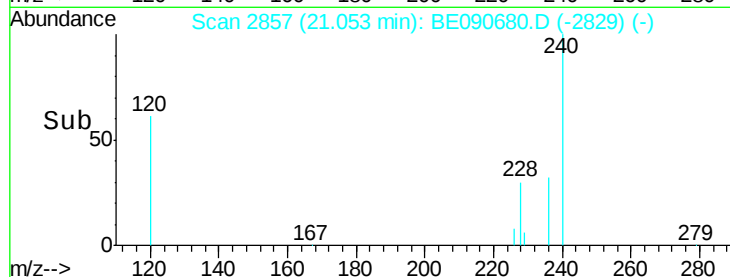
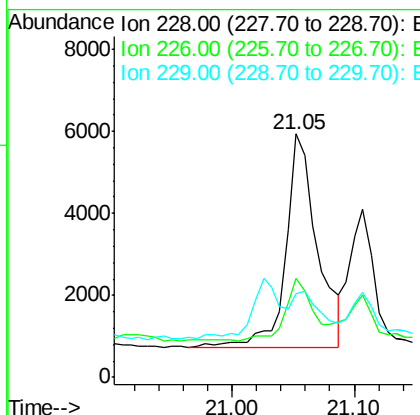
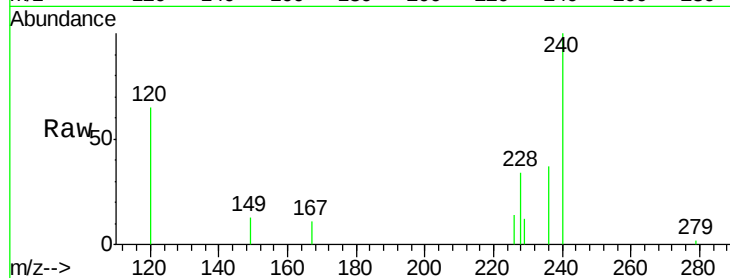
#28  
Benzo(a)anthracene  
Concen: 0.09 ng  
RT: 21.05 min Scan# 2857  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

Instrument :  
BNA\_E  
ClientSampleId :  
MW-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 40.5  | 21.6  | 32.4# |
| 229     | 34.3  | 15.9  | 23.9# |

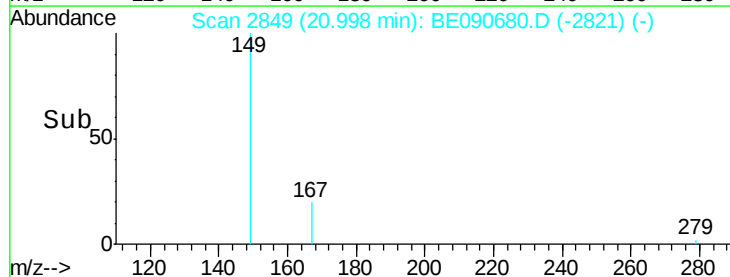
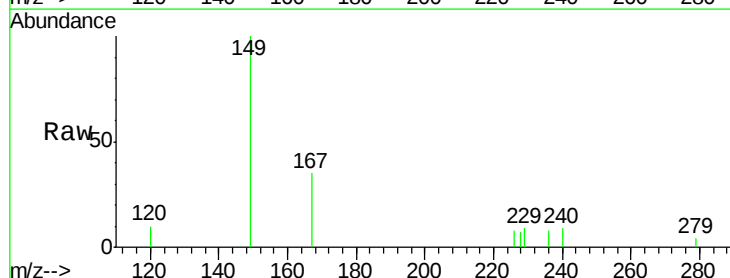
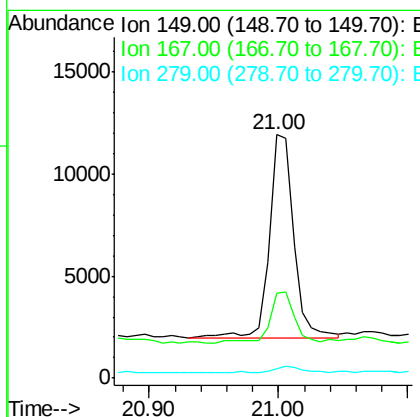
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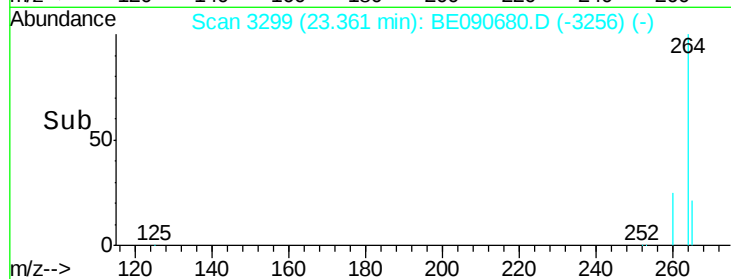
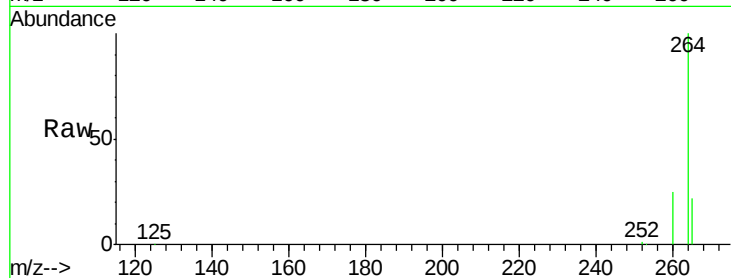
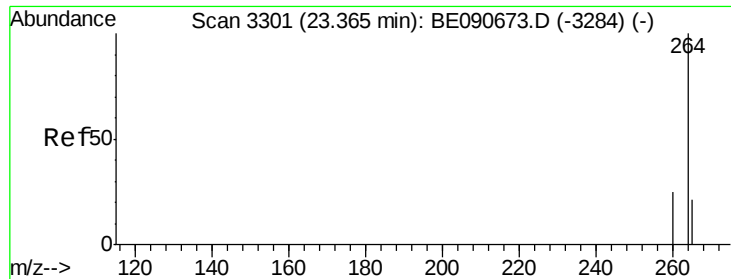
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#30  
Bis(2-ethylhexyl)phthalate  
Concen: 0.60 ng  
RT: 21.00 min Scan# 2849  
Delta R.T. -0.01 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.9  | 20.1  | 30.1  |
| 279     | 3.8   | 2.3   | 3.5#  |





#32  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.36 min Scan# 3299  
Delta R.T. -0.00 min  
Lab File: BE090680.D  
Acq: 1 Sep 2015 23:33

Instrument :  
BNA\_E  
ClientSampleId :  
MW-4

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 24.9  | 19.7       | 29.5       |
| 265     | 21.8  | 17.5       | 26.3       |

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