

Data Path : Z:\HPCHEM1\BNA M\DATA\BM070816\  
 Data File : BM006325.D  
 Acq On : 07 Jul 2016 18:41  
 Operator : UM/SJ  
 Sample : H3811-08MSD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4TV6MSD

## Manual Integrations

umangi  
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Quant Time: Jul 08 04:35:16 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 08 03:28:13 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.65  | 152  | 4648     | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.43 | 136  | 18543    | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 14.30 | 164  | 10878    | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.04 | 188  | 23858m   | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.24 | 240  | 18062    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.45 | 264  | 11894m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.17  | 96   | 7243     | 3.69   | ng/uL  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.02 | 152  | 7007     | 0.32   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 19.08 | 212  | 16140    | 0.32   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 5) Naphthalene              | 10.48 | 128  | 1436     | 0.03   | ng/ul# | 80       |
| 7) 2-Methylnaphthalene      | 12.09 | 142  | 766      | 0.03   | ng/ul  | 97       |
| 9) Acenaphthylene           | 14.01 | 152  | 3834     | 0.10   | ng/ul# | 94       |
| 10) Acenaphthene            | 14.35 | 153  | 10119    | 0.28   | ng/ul  | 90       |
| 11) Fluorene                | 15.34 | 166  | 1587     | 0.04   | ng/ul# | 78       |
| 13) Pentachlorophenol       | 16.70 | 266  | 1985     | 0.54   | ng/ul  | 96       |
| 14) Phenanthrene            | 17.07 | 178  | 44186m   | 0.67   | ng/ul  |          |
| 15) Anthracene              | 17.16 | 178  | 8058     | 0.13   | ng/ul# | 88       |
| 17) Fluoranthene            | 19.10 | 202  | 95308m   | 1.31   | ng/ul  |          |
| 19) Pyrene                  | 19.48 | 202  | 101960   | 1.35   | ng/ul# | 92       |
| 20) Benzo(a)anthracene      | 21.22 | 228  | 32824    | 0.56   | ng/ul# | 91       |
| 21) Chrysene                | 21.28 | 228  | 36737    | 0.64   | ng/ul  | 96       |
| 23) Benzo(b)fluoranthene    | 22.79 | 252  | 41798m   | 0.98   | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 22.83 | 252  | 9374m    | 0.24   | ng/ul  |          |
| 25) Benzo(a)pyrene          | 23.35 | 252  | 26041m   | 0.66   | ng/ul  |          |
| 26) Indeno(1,2,3-cd)pyrene  | 25.66 | 276  | 18633m   | 0.42   | ng/ul  |          |
| 28) Benzo(a,h,i)perylene    | 26.34 | 276  | 17541m   | 0.47   | ng/ul  |          |

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

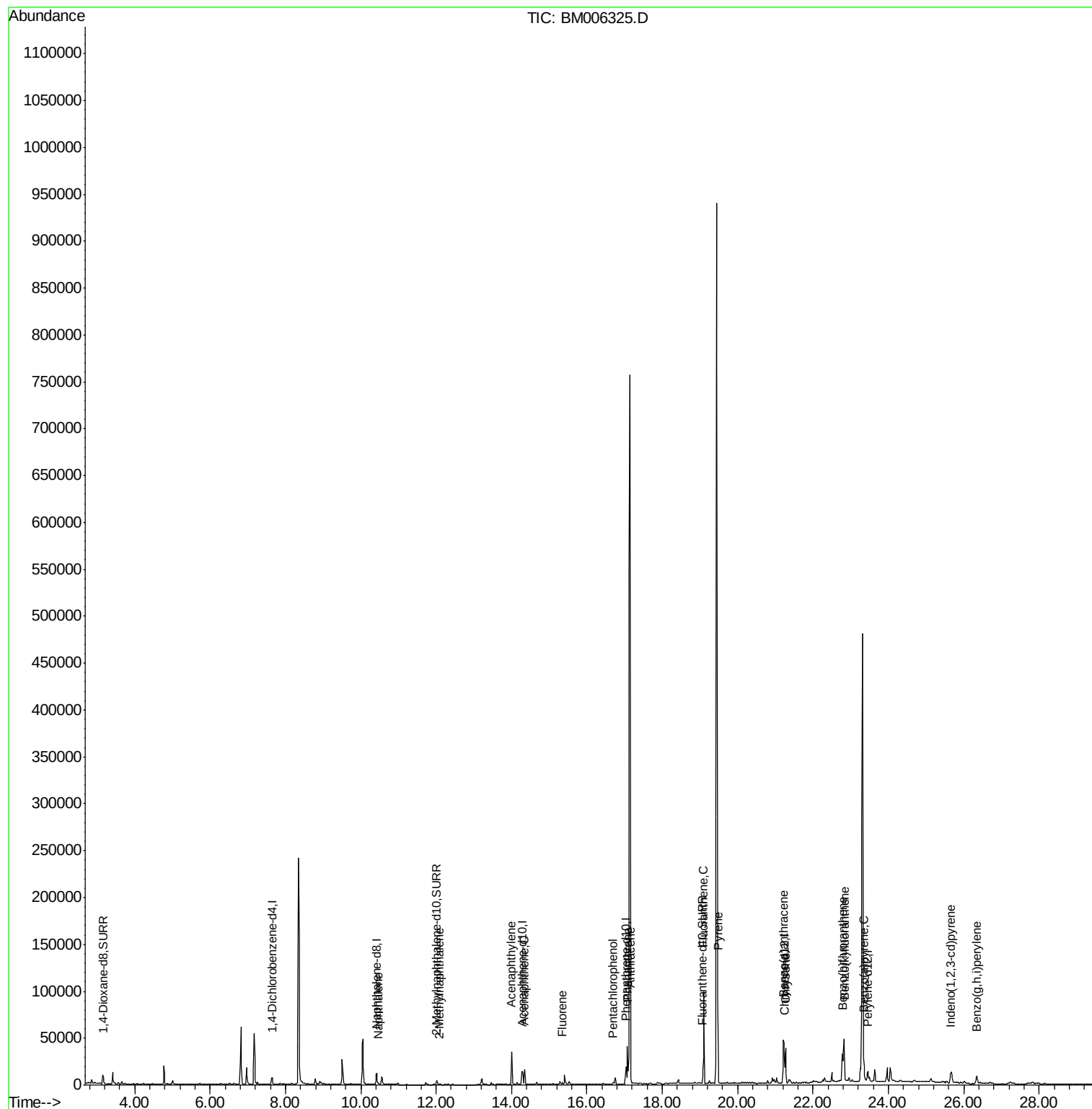
Data Path : Z:\HPCHEM1\BNA M\DATA\BM070816\  
Data File : BM006325.D  
Acq On : 07 Jul 2016 18:41  
Operator : UM/SJ  
Sample : H3811-08MSD  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

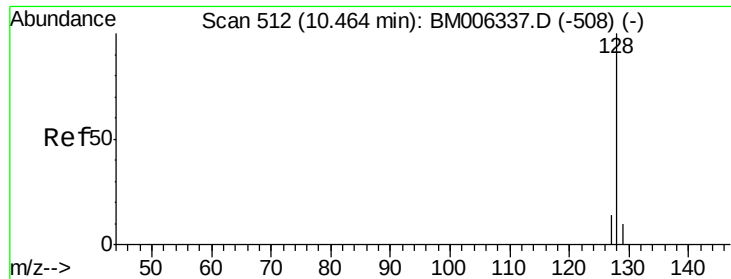
Instrument :  
BNA\_M  
ClientSampleId :  
A4TV6MSD

## Manual Integrations

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Quant Time: Jul 08 04:35:16 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 08 03:28:13 2016  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.03 ng/ul

RT: 10.48 min Scan# 513

Delta R.T. -0.00 min

Lab File: BM006325.D

Acq: 07 Jul 2016 18:41

Instrument :

BNA\_M

ClientSampleId :

A4TV6MSD

Tot Ion:128 Resp: 1436

Ion Ratio Lower Upper

128 100

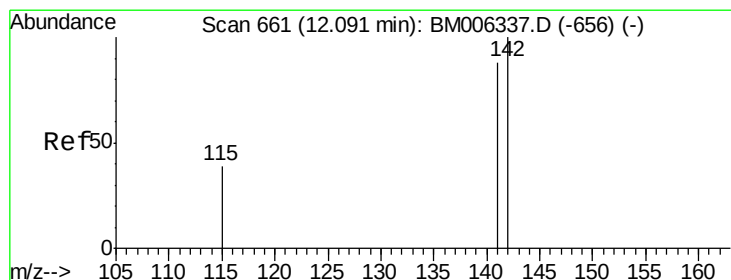
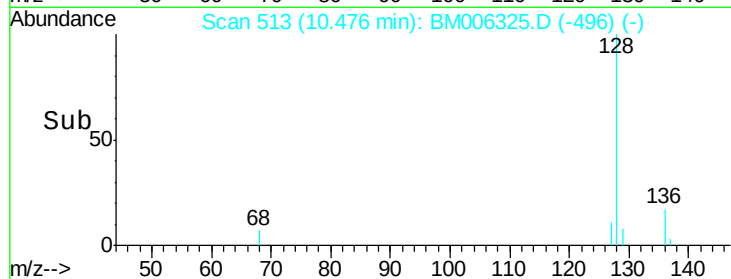
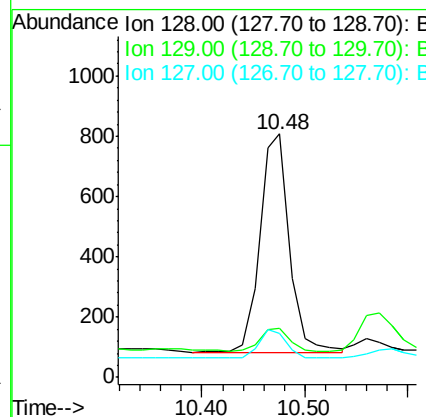
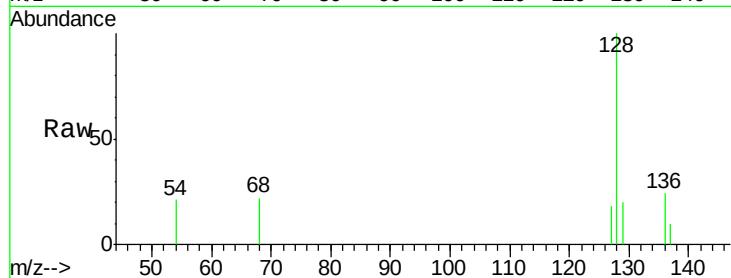
129 20.4 9.0 13.6#

127 18.1 9.6 14.4#

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#7

2-Methylnaphthalene

Concen: 0.03 ng/ul

RT: 12.09 min Scan# 661

Delta R.T. -0.00 min

Lab File: BM006325.D

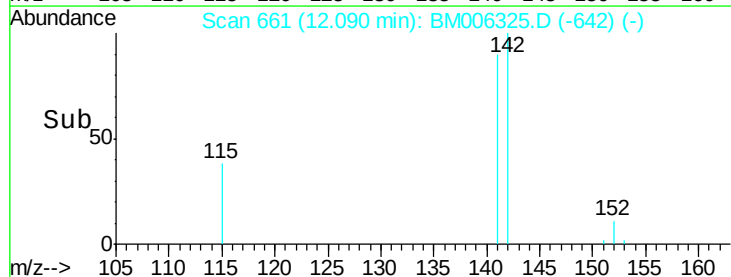
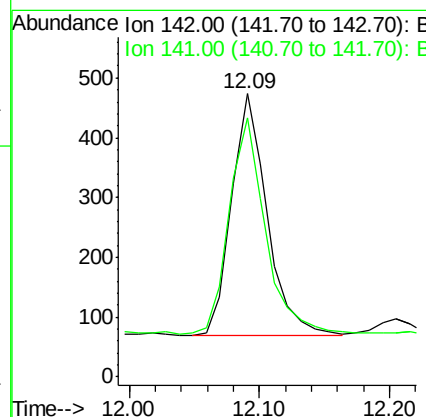
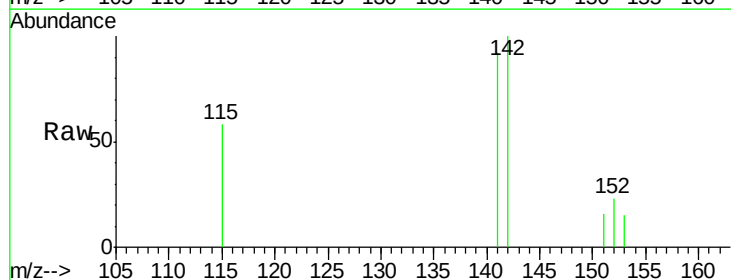
Acq: 07 Jul 2016 18:41

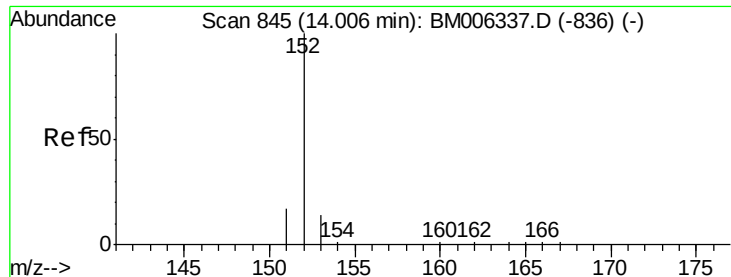
Tgt Ion:142 Resp: 766

Ion Ratio Lower Upper

142 100

141 91.1 70.3 105.5





#9

Acenaphthylene

Concen: 0.10 ng/ul

RT: 14.01 min Scan# 845

Delta R.T. -0.00 min

Lab File: BM006325.D

Acq: 07 Jul 2016 18:41

Instrument :

BNA\_M

ClientSampleId :

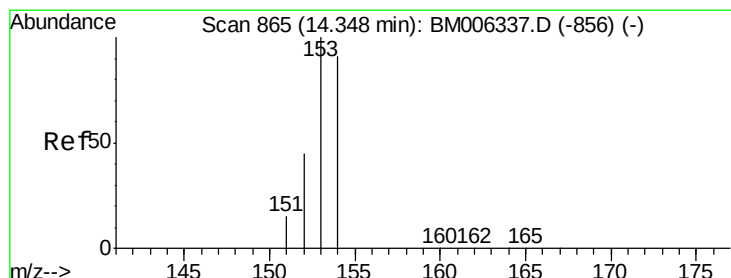
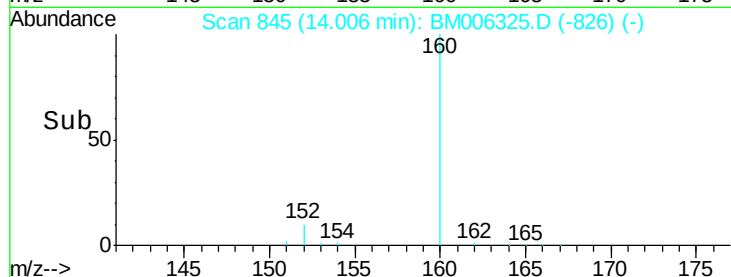
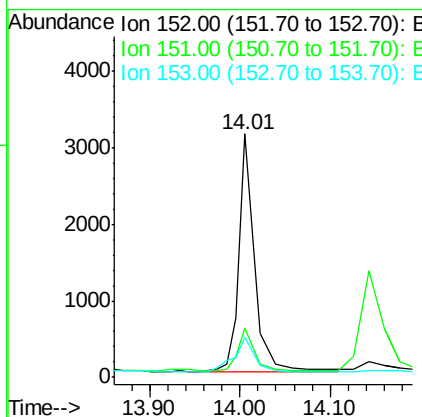
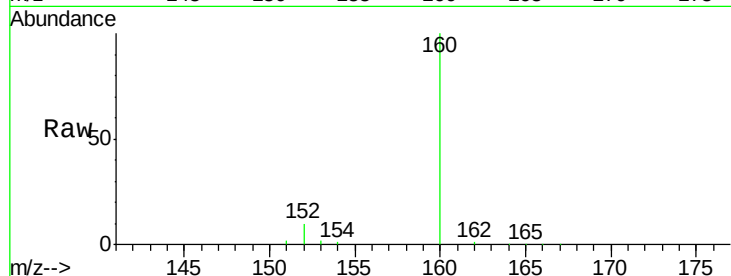
A4TV6MSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 3834 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.2  | 17.6  | 26.4 |
| 153       | 16.2  | 9.7   | 14.5 |

Manual Integrations

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#10

Acenaphthene

Concen: 0.28 ng/ul

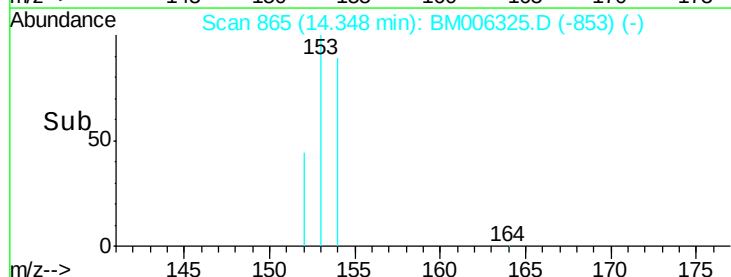
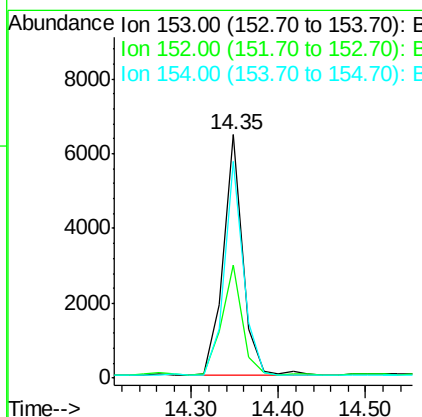
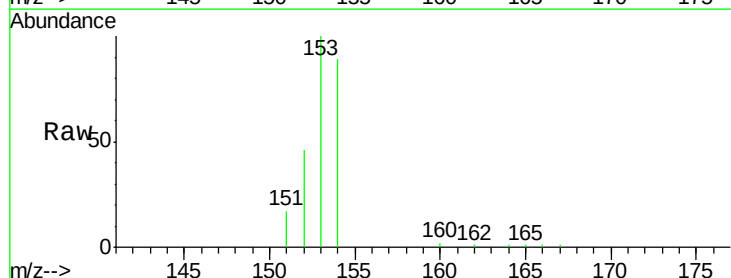
RT: 14.35 min Scan# 865

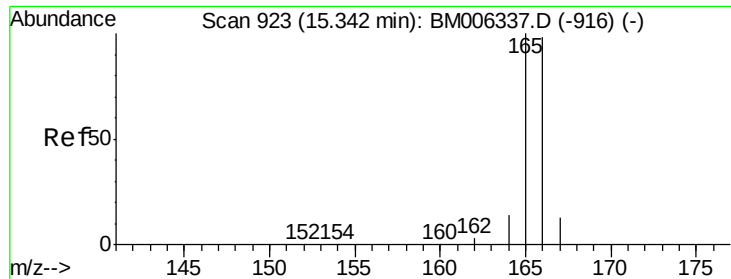
Delta R.T. -0.00 min

Lab File: BM006325.D

Acq: 07 Jul 2016 18:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 10119 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 46.4  | 33.9  | 50.9  |
| 154       | 89.1  | 80.6  | 121.0 |





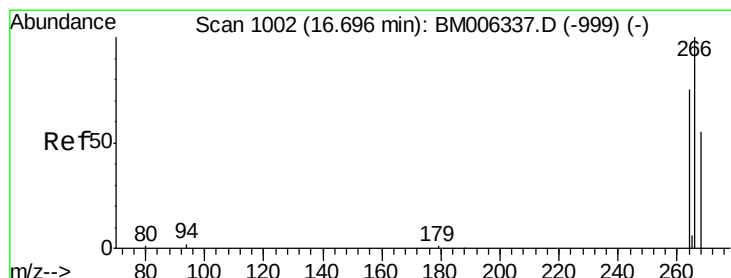
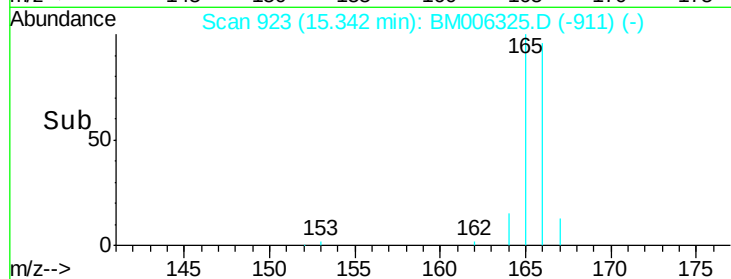
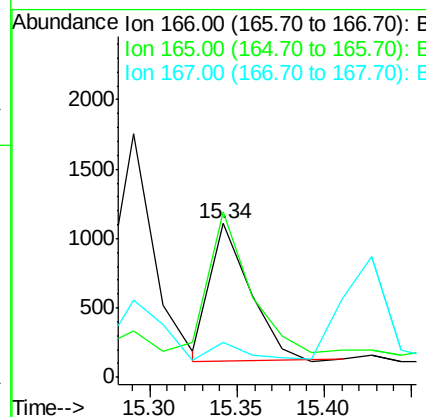
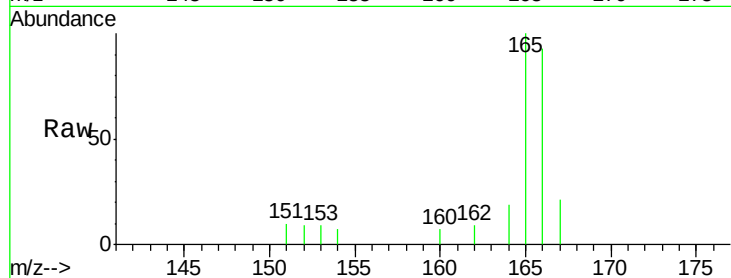
#11  
 Fluorene  
 Concen: 0.04 ng/ul  
 RT: 15.34 min Scan# 923  
 Delta R.T. -0.00 min  
 Lab File: BM006325.D  
 Acq: 07 Jul 2016 18:41

Instrument :  
 BNA\_M  
 ClientSampleId :  
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Tot Ion:166 Resp: 1587  
 Ion Ratio Lower Upper  
 166 100  
 165 107.5 69.6 104.4#  
 167 22.9 11.9 17.9#

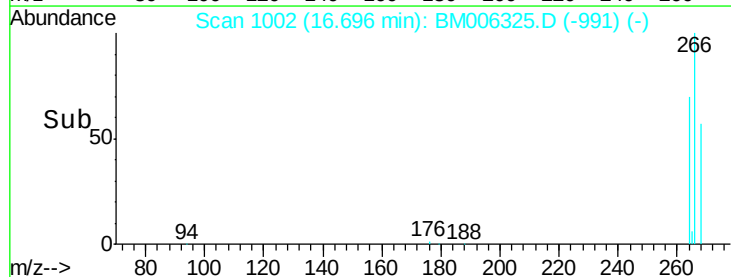
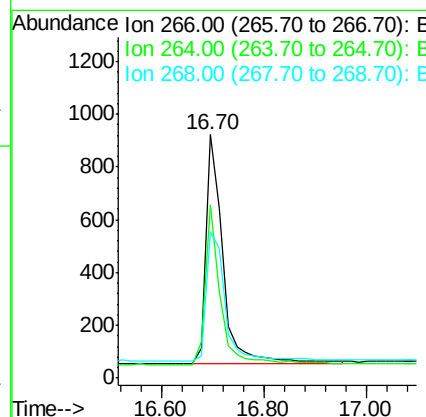
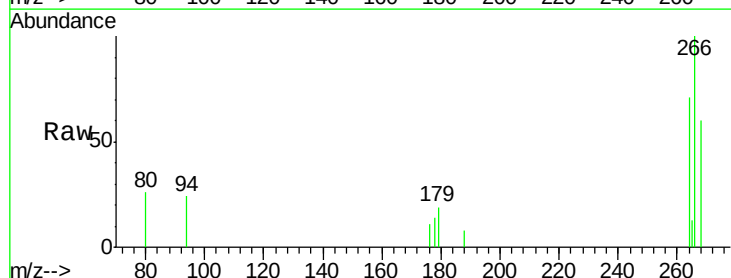
Manual Integrations

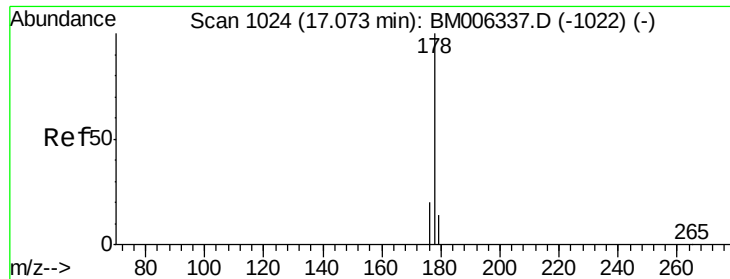
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#13  
 Pentachlorophenol  
 Concen: 0.54 ng/ul  
 RT: 16.70 min Scan# 1002  
 Delta R.T. -0.02 min  
 Lab File: BM006325.D  
 Acq: 07 Jul 2016 18:41

Tgt Ion:266 Resp: 1985  
 Ion Ratio Lower Upper  
 266 100  
 264 62.5 51.8 77.8  
 268 63.1 46.8 70.2





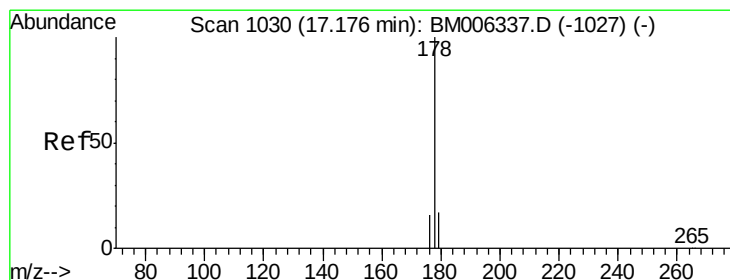
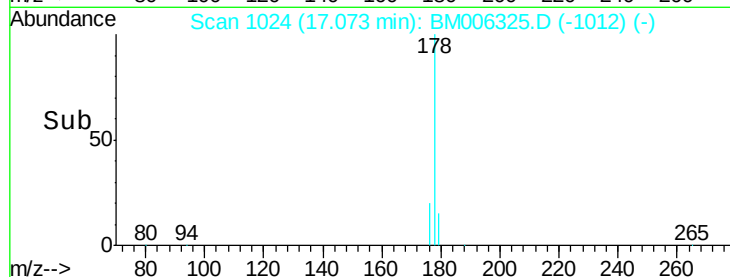
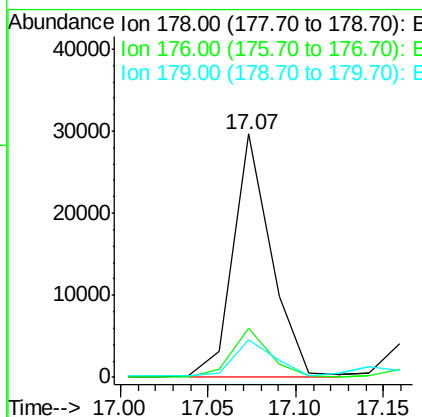
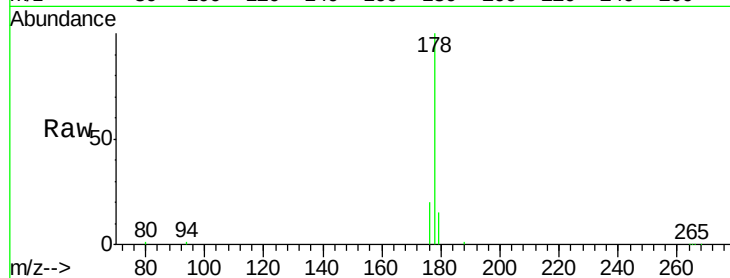
#14  
Phenanthrene  
Concen: 0.67 ng/ul m  
RT: 17.07 min Scan# 1024  
Delta R.T. -0.00 min  
Lab File: BM006325.D  
Acq: 07 Jul 2016 18:41

Instrument :  
BNA\_M  
ClientSampleId :  
A4TV6MSD

Tot Ion:178 Resp: 44186  
Ion Ratio Lower Upper  
178 100  
176 20.1 13.0 19.4#  
179 15.2 14.2 21.2

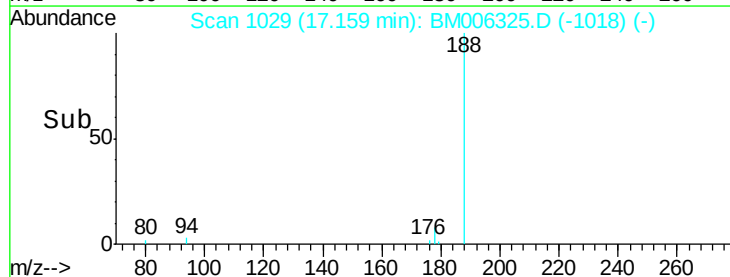
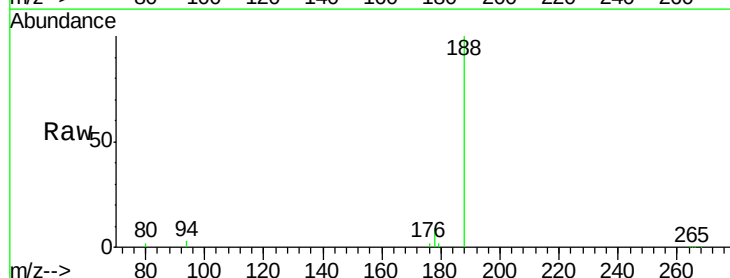
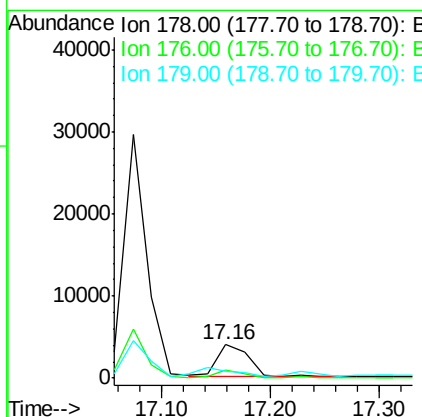
Manual Integrations

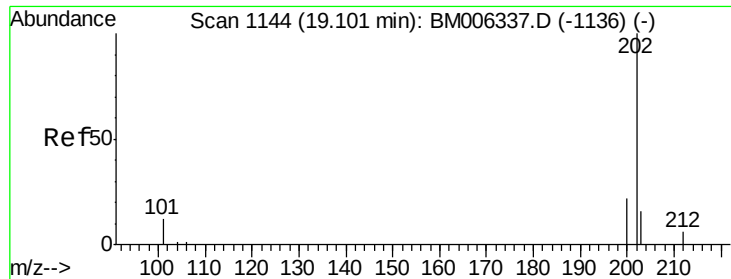
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#15  
Anthracene  
Concen: 0.13 ng/ul  
RT: 17.16 min Scan# 1029  
Delta R.T. -0.02 min  
Lab File: BM006325.D  
Acq: 07 Jul 2016 18:41

Tgt Ion:178 Resp: 8058  
Ion Ratio Lower Upper  
178 100  
176 23.4 14.0 21.0#  
179 20.5 12.9 19.3#





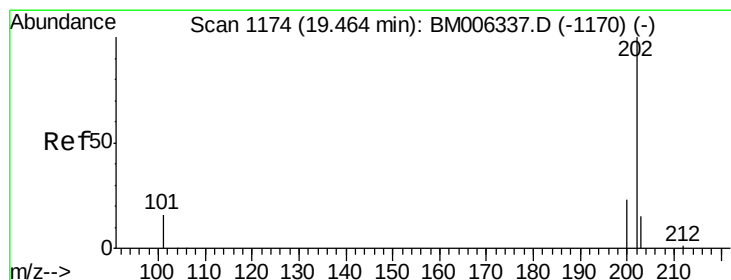
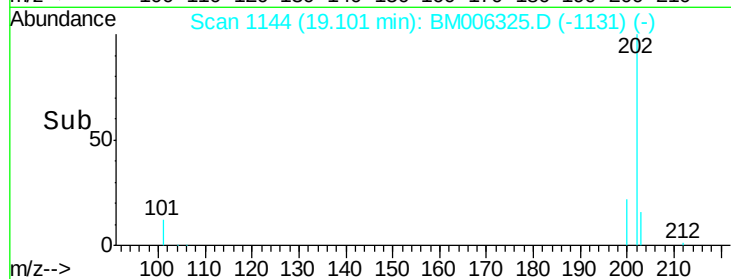
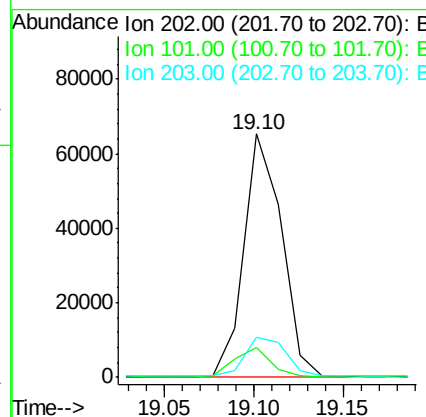
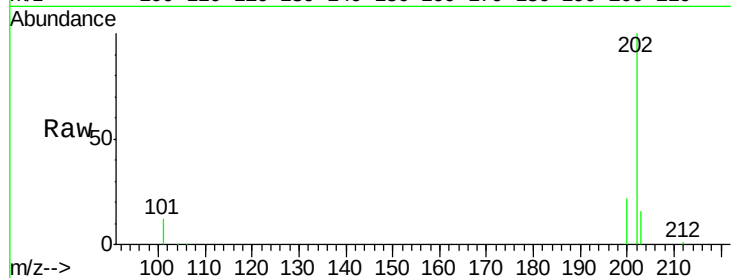
#17  
Fluoranthene  
Concen: 1.31 ng/ul m  
RT: 19.10 min Scan# 1144  
Delta R.T. -0.01 min  
Lab File: BM006325.D  
Acq: 07 Jul 2016 18:41

Instrument :  
BNA\_M  
ClientSampleId :  
A4TV6MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.2  | 0.0   | 29.6  |
| 203     | 16.3  | 0.0   | 36.3  |

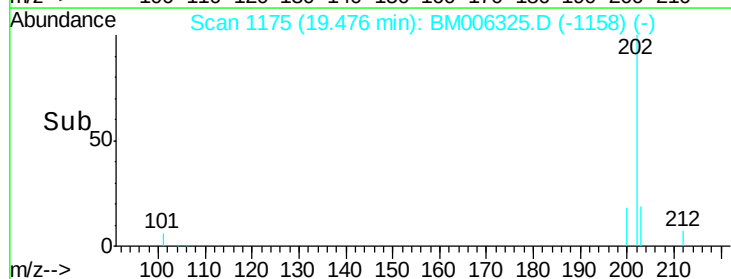
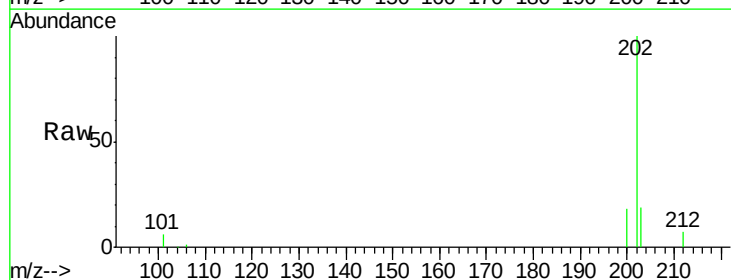
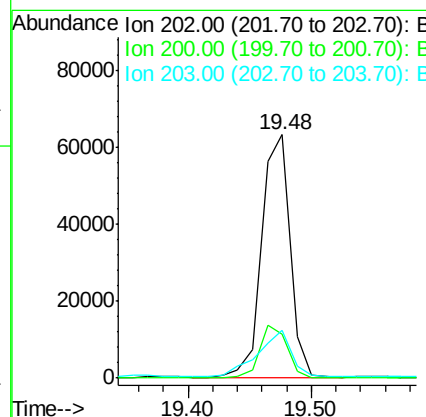
Manual Integrations

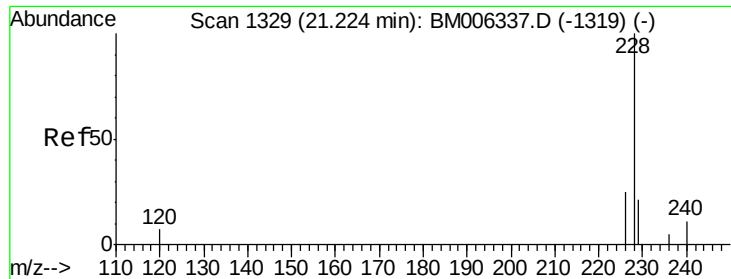
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#19  
Pyrene  
Concen: 1.35 ng/ul  
RT: 19.48 min Scan# 1175  
Delta R.T. 0.00 min  
Lab File: BM006325.D  
Acq: 07 Jul 2016 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 18.2  | 17.8  | 26.8  |
| 203     | 19.5  | 12.8  | 19.2# |





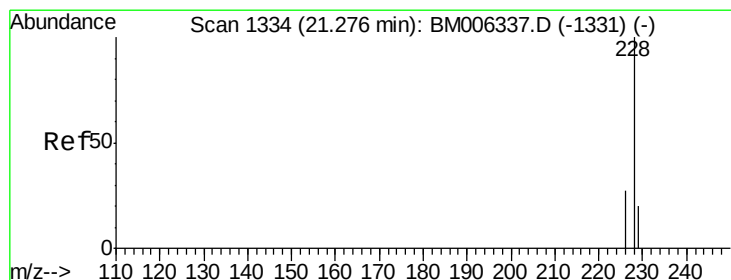
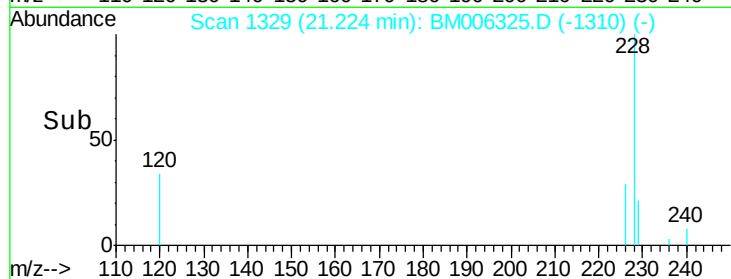
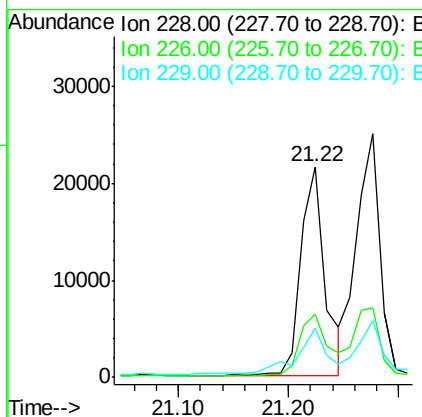
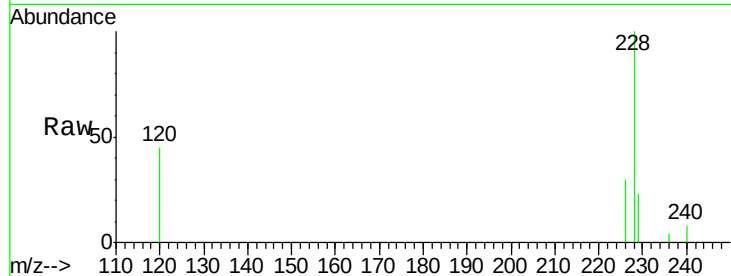
#20  
Benzo(a)anthracene  
Concen: 0.56 ng/ul  
RT: 21.22 min Scan# 1329  
Delta R.T. 0.00 min  
Lab File: BM006325.D  
Acq: 07 Jul 2016 18:41

Instrument :  
BNA\_M  
ClientSampleId :  
A4TV6MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 18.8  | 28.2  |
| 229     | 23.1  | 17.1  | 25.7  |

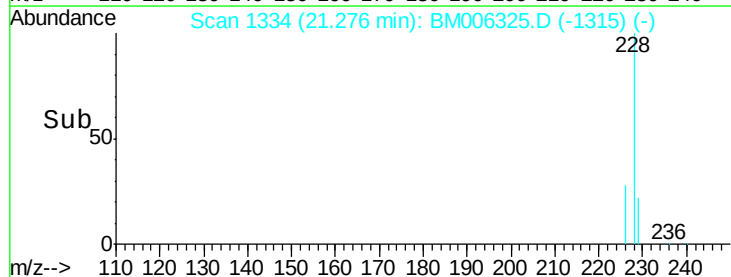
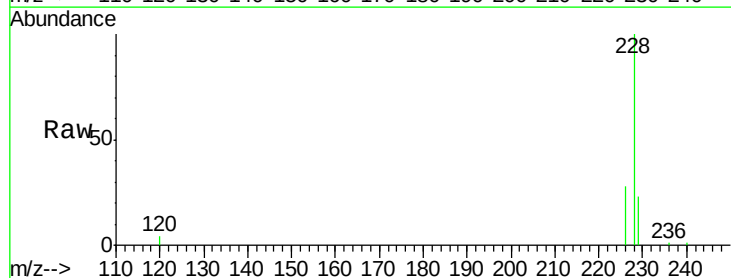
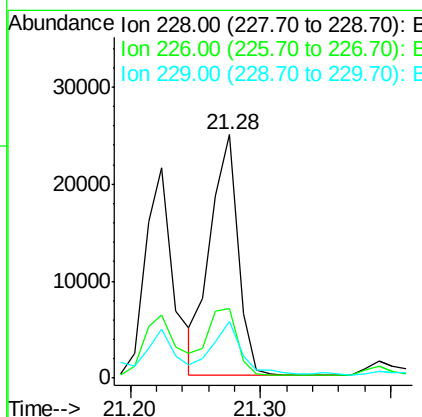
Manual Integrations

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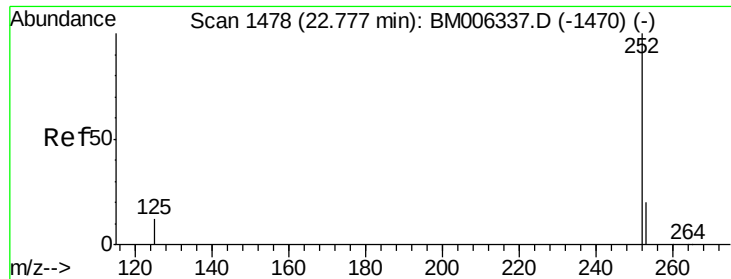


#21  
Chrysene  
Concen: 0.64 ng/ul  
RT: 21.28 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: BM006325.D  
Acq: 07 Jul 2016 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.4  | 21.2  | 31.8  |
| 229     | 23.3  | 17.0  | 25.6  |







#23

Benzo(b)fluoranthene

Concen: 0.98 ng/ul m

RT: 22.79 min Scan# 1479

Delta R.T. 0.00 min

Lab File: BM006325.D

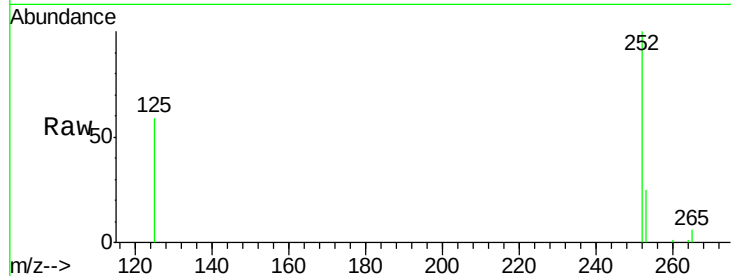
Acq: 07 Jul 2016 18:41

Instrument :

BNA\_M

ClientSampleId :

A4TV6MSD

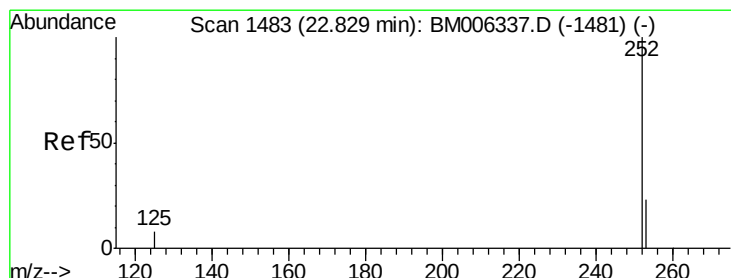
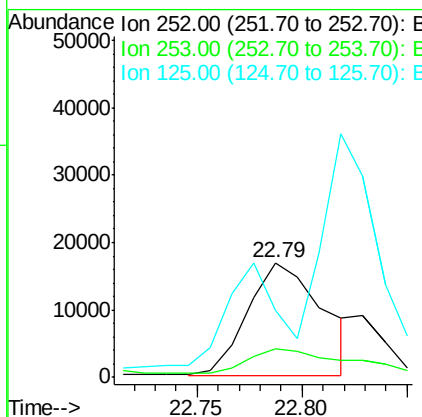


|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 41798 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 0.0   | 45.4  |
| 125       | 58.5  | 0.0   | 28.8# |

Manual Integrations

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#24

Benzo(k)fluoranthene

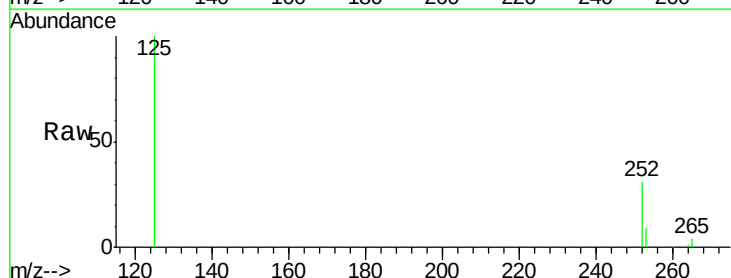
Concen: 0.24 ng/ul m

RT: 22.83 min Scan# 1483

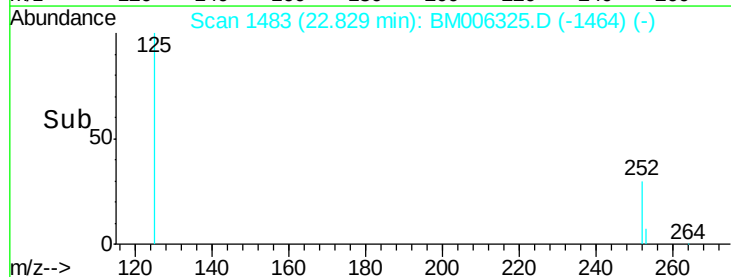
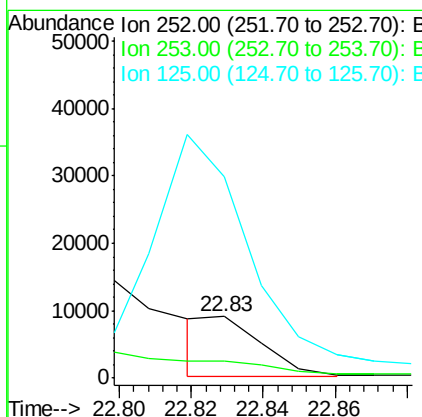
Delta R.T. 0.00 min

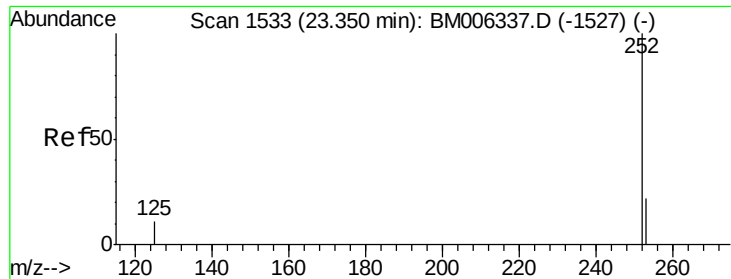
Lab File: BM006325.D

Acq: 07 Jul 2016 18:41



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 9374  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.1  | 19.8  | 29.8  |
| 125       | 326.9 | 10.4  | 15.6# |





#25

Benzo(a)pyrene

Concen: 0.66 ng/ul m

RT: 23.35 min Scan# 1533

Delta R.T. -0.01 min

Lab File: BM006325.D

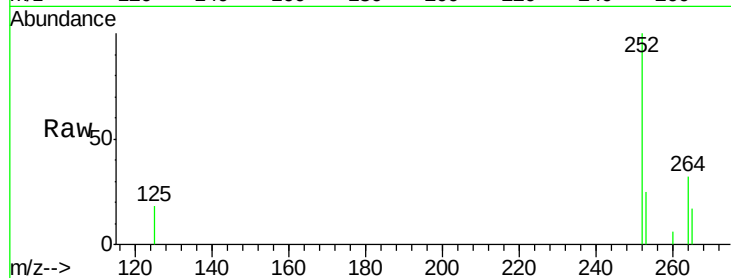
Acq: 07 Jul 2016 18:41

Instrument :

BNA\_M

ClientSampleId :

A4TV6MSD

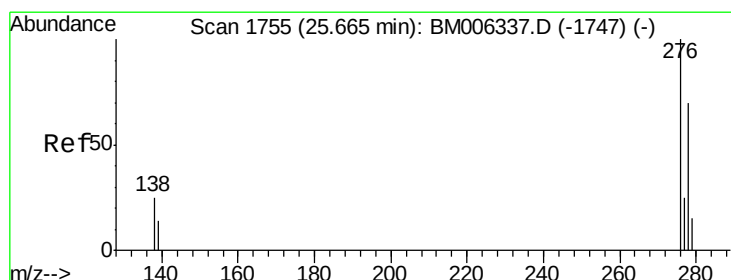
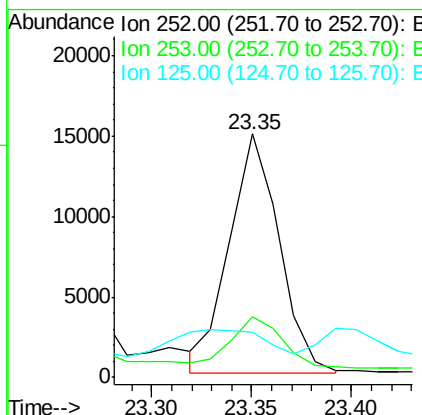
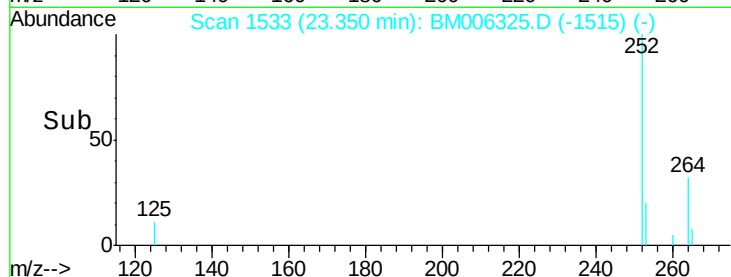


|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 26041 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.9  | 19.4  | 29.2  |
| 125       | 18.4  | 12.7  | 19.1  |

Manual Integrations

umangi

7/8/2016 7:13:05 PM



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.42 ng/ul m

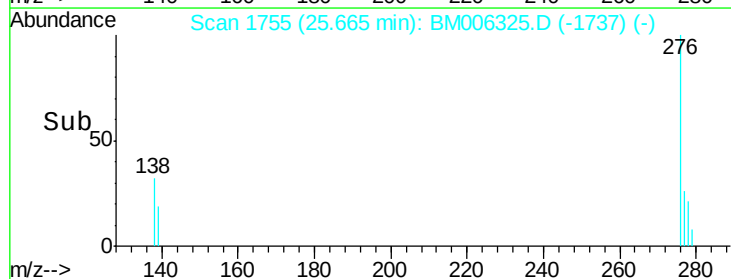
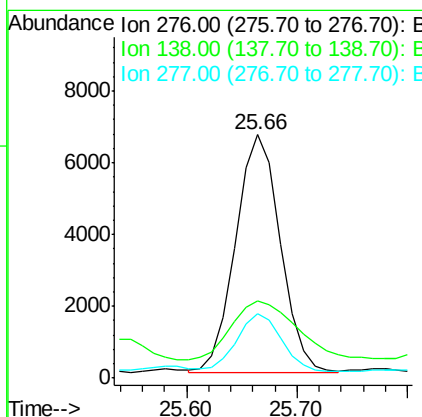
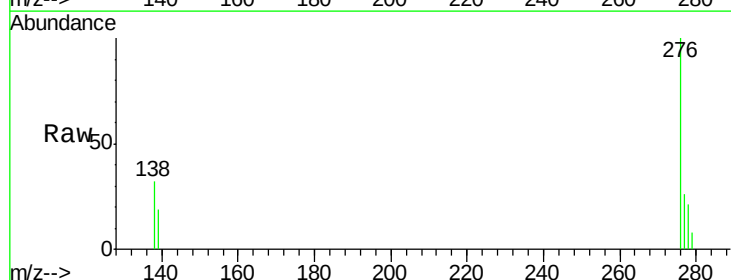
RT: 25.66 min Scan# 1755

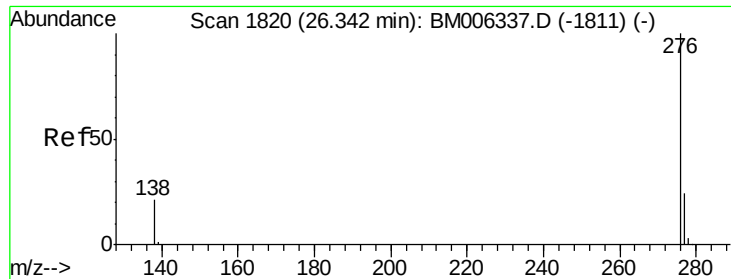
Delta R.T. -0.01 min

Lab File: BM006325.D

Acq: 07 Jul 2016 18:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 18633 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 0.0   | 16.3  | 24.5# |
| 277       | 4.2   | 19.8  | 29.8# |





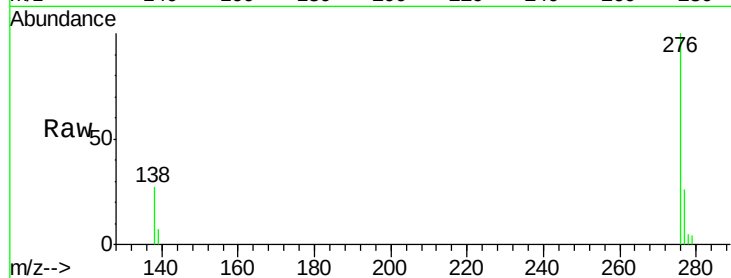
#28  
 Benzo(a,h,i)perylene  
 Concen: 0.47 ng/ul m  
 RT: 26.34 min Scan# 1820  
 Delta R.T. 0.00 min  
 Lab File: BM006325.D  
 Acq: 07 Jul 2016 18:41

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4TV6MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 17541 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.7  | 18.9  | 28.3  |
| 138       | 27.3  | 22.5  | 33.7  |

#### Manual Integrations

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Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 277.00 (276.70 to 277.70): E  
 Ion 138.00 (137.70 to 138.70): E

