

Data Path : V:\HPCHEM1\BNA M\DATA\BM112115\  
 Data File : BM003265.D  
 Acq On : 22 Nov 2015 01:16  
 Operator : UM/IZ  
 Sample : G4345-09  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4J51

Manual Integrations  
 APPROVED

Mmdadoda  
 11/23/2015 7:04:32 PM

Quant Time: Nov 22 05:19:50 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 04:42:03 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 13271    | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.53 | 136  | 52313    | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 14.38 | 164  | 28260    | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.12 | 188  | 56711    | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.32 | 240  | 56623    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.58 | 264  | 56719    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.20  | 96   | 69797    | 4.92   | ng/uL  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.12 | 152  | 13642    | 0.19   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 19.17 | 212  | 17530    | 0.13   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 5) Naphthalene              | 10.57 | 128  | 28705    | 0.21   | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.19 | 142  | 3865     | 0.04   | ng/ul# | 100      |
| 9) Acenaphthylene           | 14.09 | 152  | 51841    | 0.44   | ng/ul  | 99       |
| 10) Acenaphthene            | 14.43 | 153  | 4055     | 0.04   | ng/ul# | 76       |
| 11) Fluorene                | 15.44 | 166  | 9379     | 0.09   | ng/ul# | 89       |
| 13) Pentachlorophenol       | 16.78 | 266  | 770      | 0.06   | ng/ul  | 95       |
| 14) Phenanthrene            | 17.16 | 178  | 135499m  | 0.82   | ng/ul  |          |
| 15) Anthracene              | 17.26 | 178  | 45580    | 0.33   | ng/ul  | 98       |
| 17) Fluoranthene            | 19.19 | 202  | 353383   | 1.94   | ng/ul  | 99       |
| 19) Pyrene                  | 19.55 | 202  | 330949   | 1.70   | ng/ul  | 98       |
| 20) Benzo(a)anthracene      | 21.30 | 228  | 212704   | 1.30   | ng/ul# | 89       |
| 21) Chrysene                | 21.35 | 228  | 180636m  | 0.98   | ng/ul  |          |
| 23) Benzo(b)fluoranthene    | 22.91 | 252  | 248297m  | 1.15   | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 22.94 | 252  | 94325m   | 0.46   | ng/ul  |          |
| 25) Benzo(a)pyrene          | 23.48 | 252  | 182579   | 0.95   | ng/ul  | 98       |
| 26) Indeno(1,2,3-cd)pyrene  | 25.86 | 276  | 108517   | 0.47   | ng/ul# | 94       |
| 27) Dibenzo(a,h)anthracene  | 25.87 | 278  | 27500    | 0.15   | ng/ul# | 86       |
| 28) Benzo(a,h,i)perylene    | 26.56 | 276  | 101658   | 0.51   | ng/ul  | 100      |

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

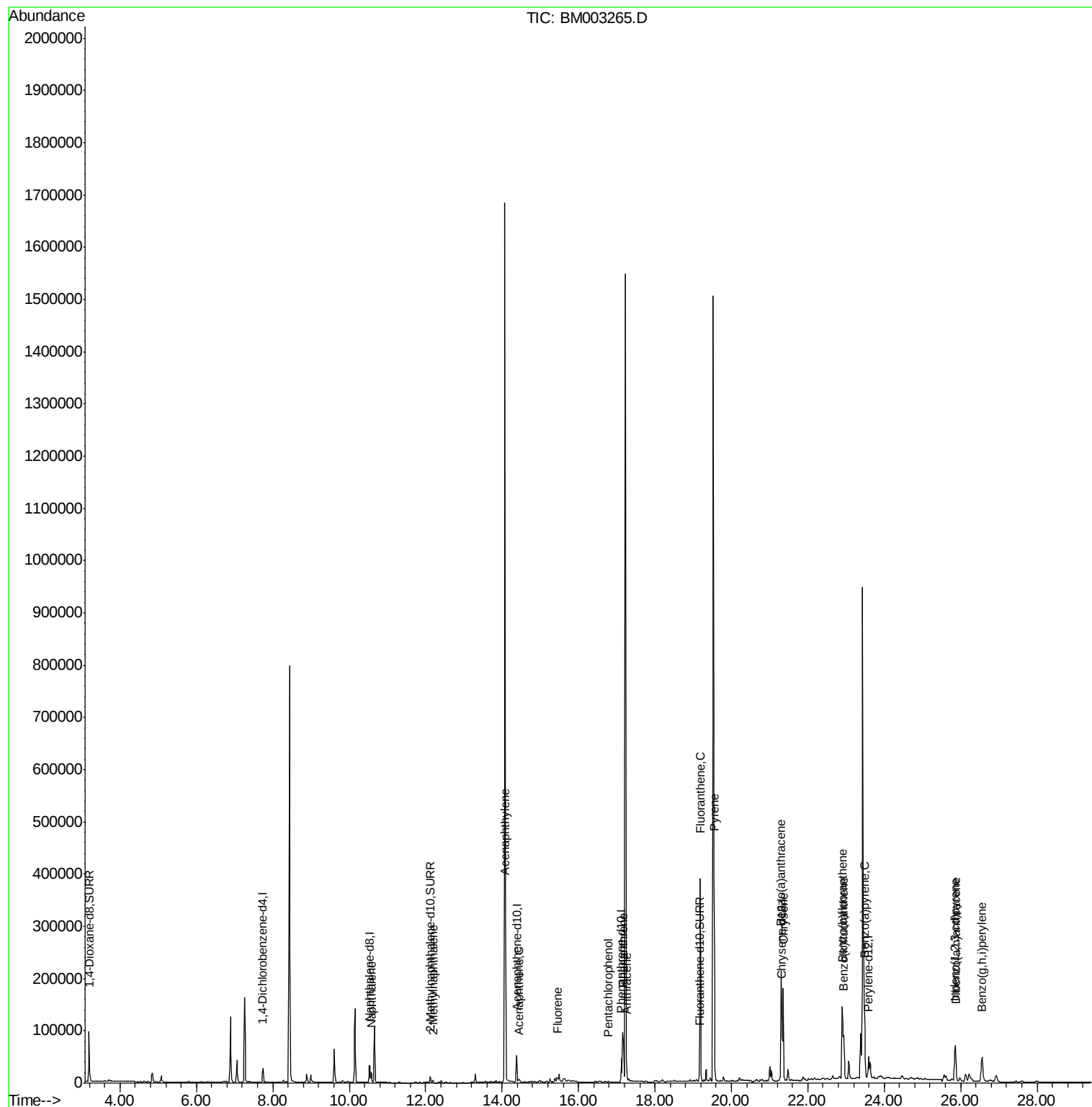
Data Path : V:\HPCHEM1\BNA M\DATA\BM112115\  
Data File : BM003265.D  
Acq On : 22 Nov 2015 01:16  
Operator : UM/IZ  
Sample : G4345-09  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

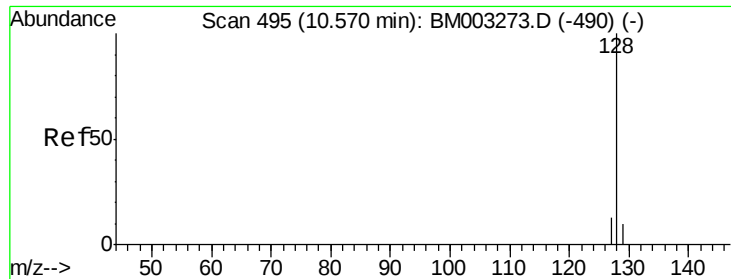
Instrument :  
BNA\_M  
ClientSampleId :  
A4J51

Manual Integrations  
APPROVED

Mmdadoda  
11/23/2015 7:04:32 PM

Quant Time: Nov 22 05:19:50 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 04:42:03 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.21 ng/ul

RT: 10.57 min Scan# 495

Delta R.T. -0.00 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

Instrument :

BNA\_M

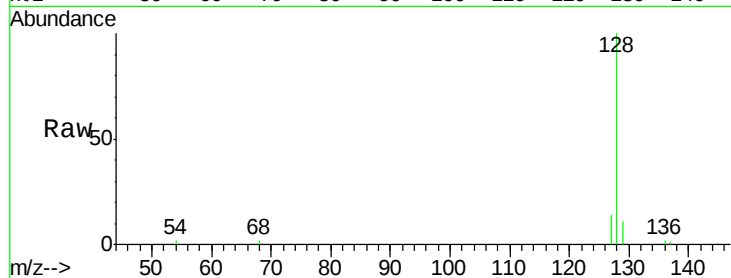
ClientSampleId :

A4J51

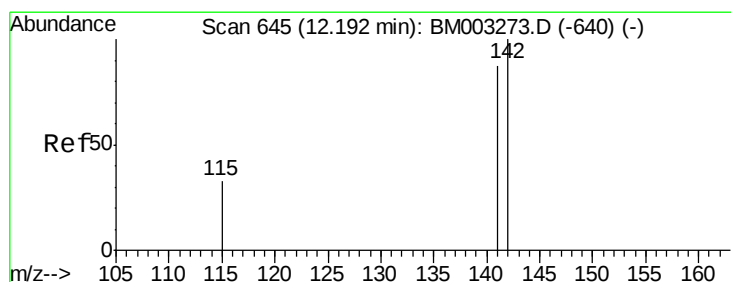
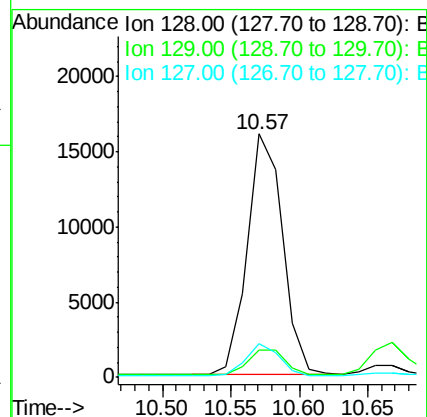
Manual Integrations  
APPROVED

Mmdadoda

11/23/2015 7:04:32 PM



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 28705 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.2  | 9.0   | 13.6  |
| 127       | 13.9  | 9.6   | 14.4  |



#7

2-Methylnaphthalene

Concen: 0.04 ng/ul

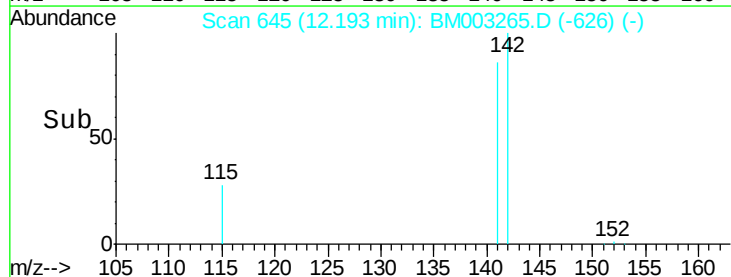
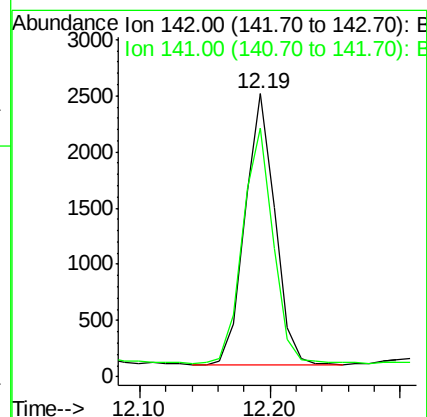
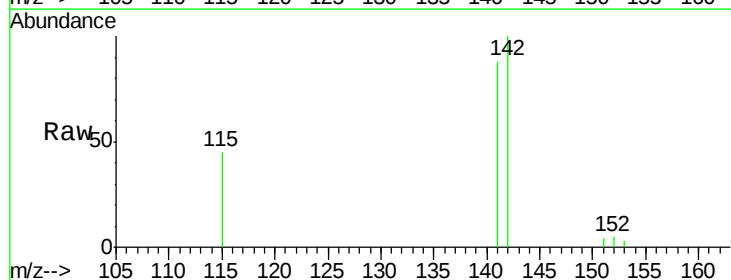
RT: 12.19 min Scan# 645

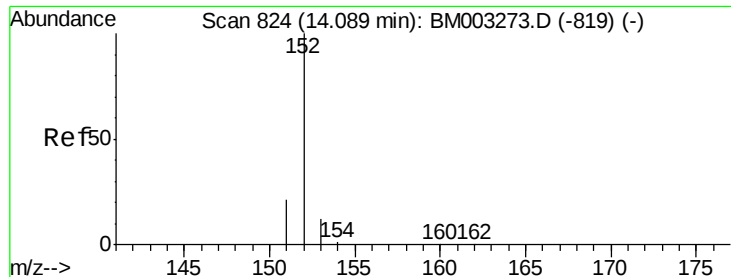
Delta R.T. -0.00 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 142   | Resp: | 3865 |
| Ion Ratio | Lower | Upper |      |
| 142       | 100   |       |      |
| 141       | 87.7  | 0.0   | 0.0# |





#9

Acenaphthylene

Concen: 0.44 ng/ul

RT: 14.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

Instrument :

BNA\_M

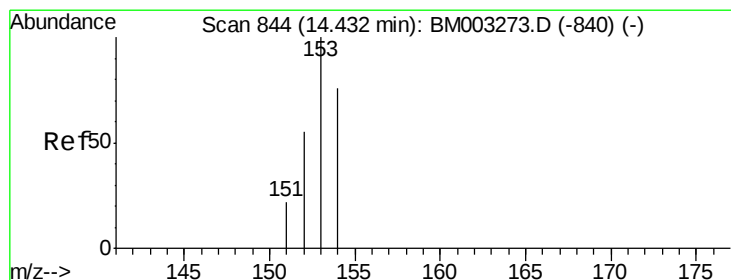
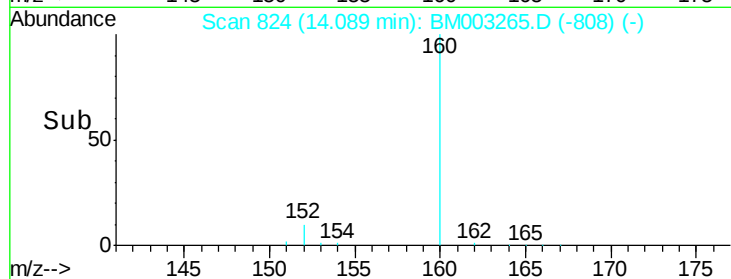
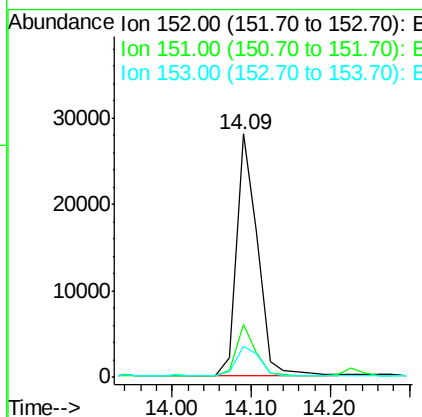
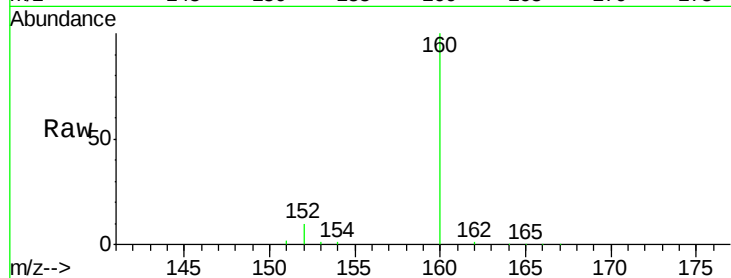
ClientSampleId :

A4J51

Manual Integrations  
APPROVED

Mmdadoda  
11/23/2015 7:04:32 PM

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 51841 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 21.5  | 17.6  | 26.4  |
| 153       | 12.8  | 9.7   | 14.5  |



#10

Acenaphthene

Concen: 0.04 ng/ul

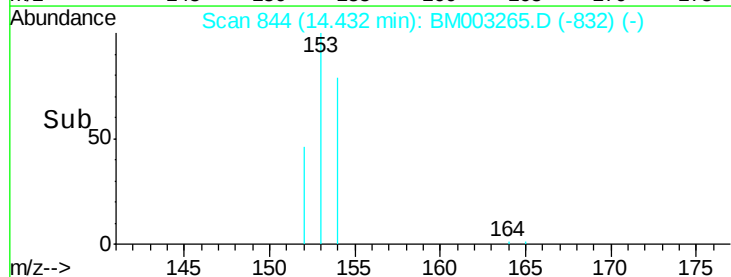
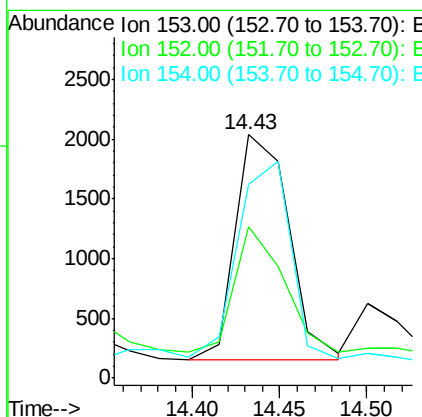
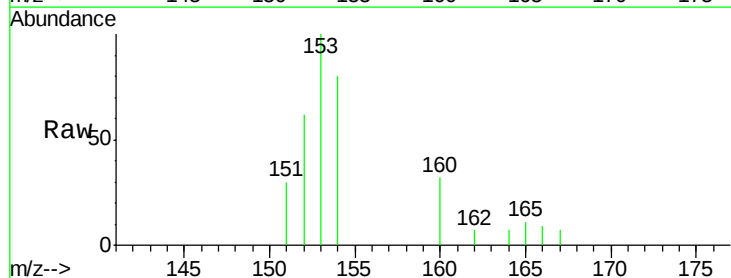
RT: 14.43 min Scan# 844

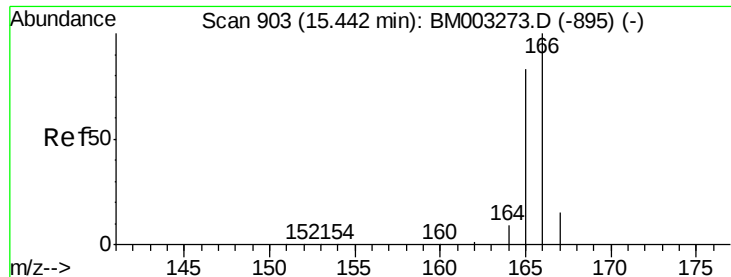
Delta R.T. -0.00 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 4055   |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 62.1  | 33.9  | 50.9#  |
| 154       | 79.7  | 80.6  | 121.0# |





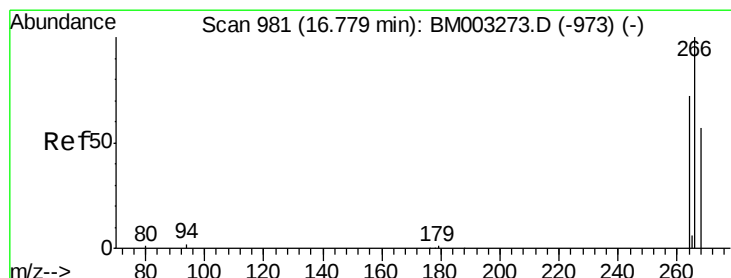
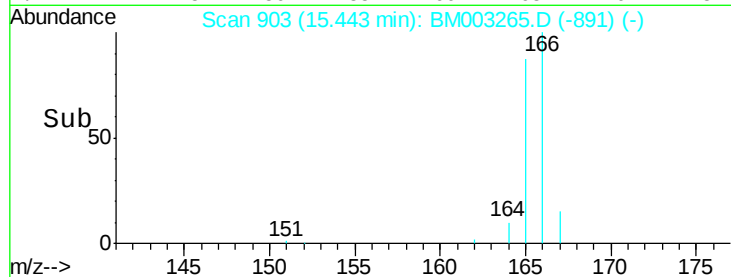
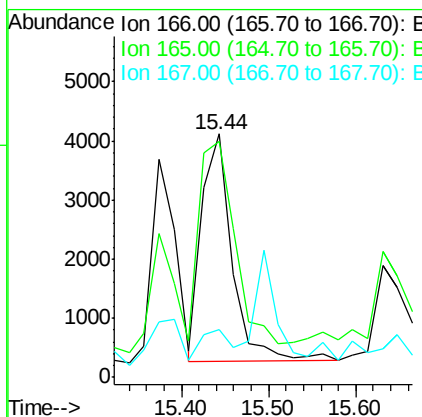
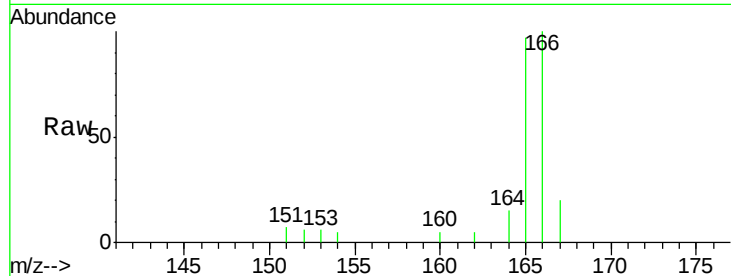
#11  
 Fluorene  
 Concen: 0.09 ng/ul  
 RT: 15.44 min Scan# 903  
 Delta R.T. -0.00 min  
 Lab File: BM003265.D  
 Acq: 22 Nov 2015 01:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4J51

Tot Ion:166 Resp: 9379  
 Ion Ratio Lower Upper  
 166 100  
 165 96.7 69.6 104.4  
 167 19.6 11.9 17.9#

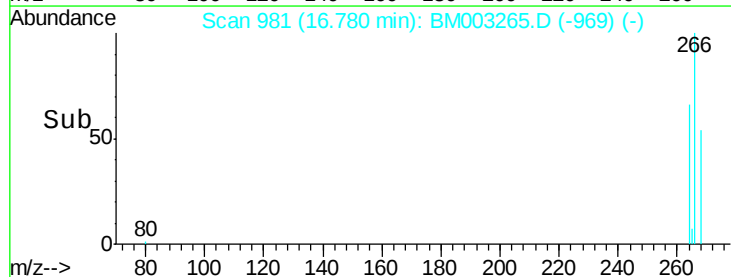
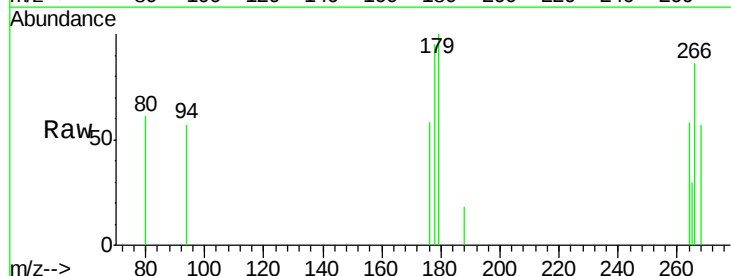
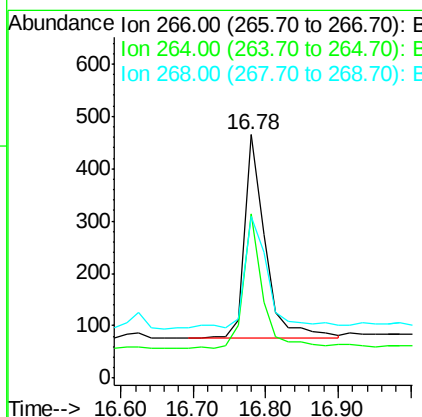
Manual Integrations  
 APPROVED

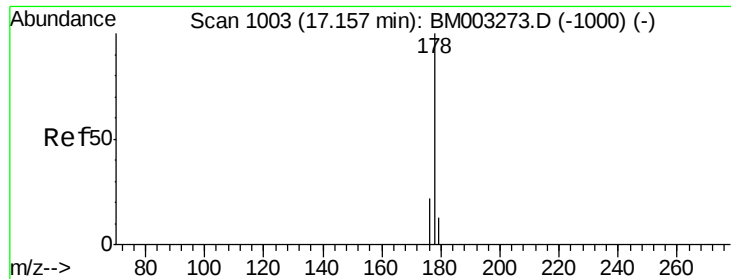
Mmdadoda  
 11/23/2015 7:04:32 PM



#13  
 Pentachlorophenol  
 Concen: 0.06 ng/ul  
 RT: 16.78 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: BM003265.D  
 Acq: 22 Nov 2015 01:16

Tgt Ion:266 Resp: 770  
 Ion Ratio Lower Upper  
 266 100  
 264 64.5 51.8 77.8  
 268 66.8 46.8 70.2





#14

Phenanthrene

Concen: 0.82 ng/ul m

RT: 17.16 min Scan# 1003

Delta R.T. -0.00 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

Instrument :

BNA\_M

ClientSampleId :

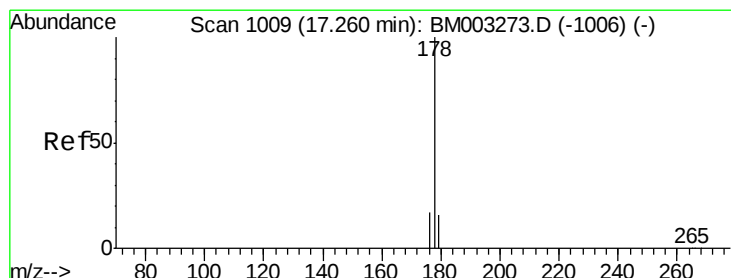
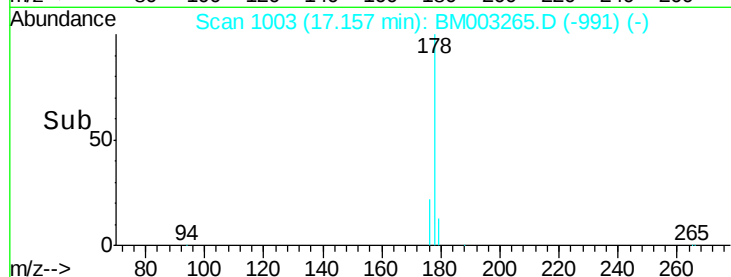
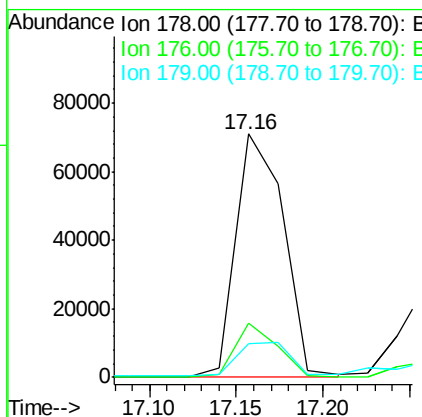
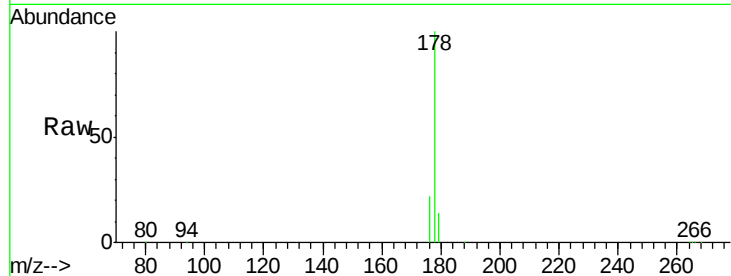
A4J51

Manual Integrations  
APPROVED

Mmdadoda

11/23/2015 7:04:32 PM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 22.1  | 13.0  | 19.4# |
| 179     | 13.7  | 14.2  | 21.2# |



#15

Anthracene

Concen: 0.33 ng/ul

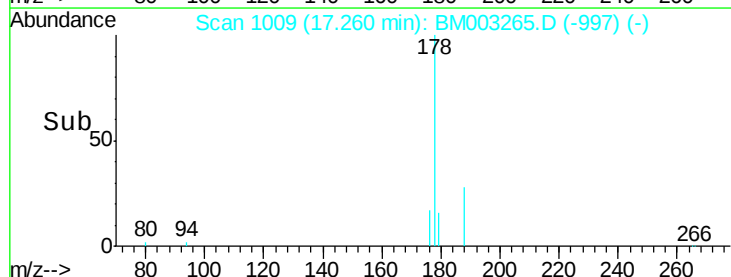
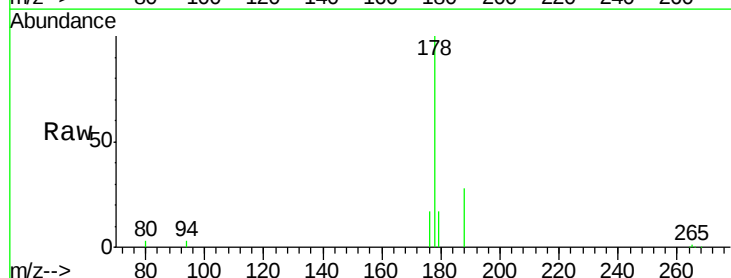
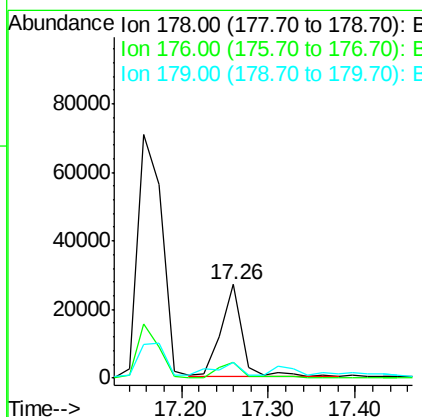
RT: 17.26 min Scan# 1009

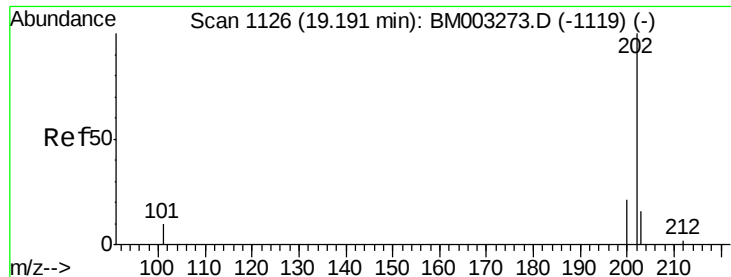
Delta R.T. -0.00 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.4  | 14.0  | 21.0  |
| 179     | 17.4  | 12.9  | 19.3  |





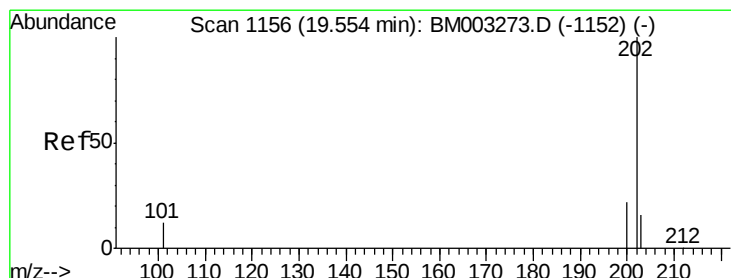
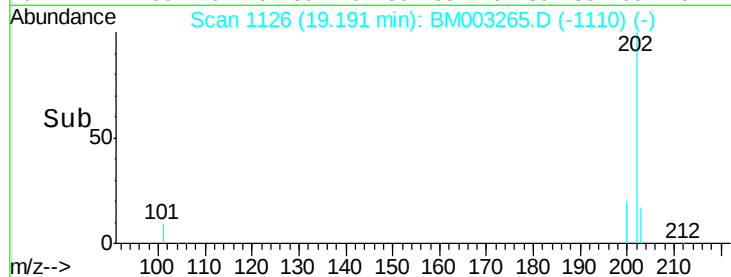
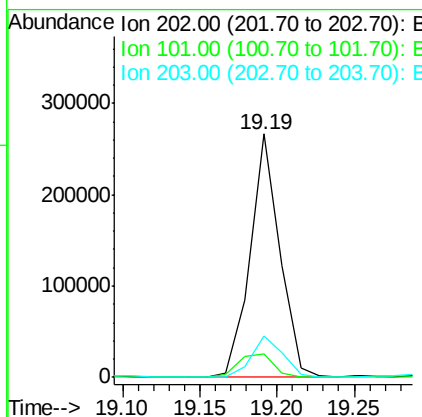
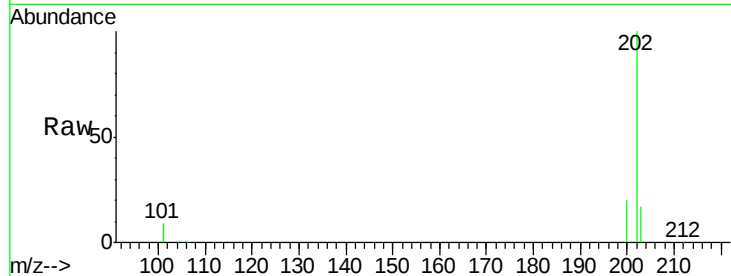
#17  
**Fluoranthene**  
 Concen: 1.94 ng/ul  
 RT: 19.19 min Scan# 1126  
 Delta R.T. -0.00 min  
 Lab File: BM003265.D  
 Acq: 22 Nov 2015 01:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4J51

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 353383 |       |       |
| 101     | 9.5  | 0.0   | 29.6   |       |       |
| 203     | 16.8 | 0.0   | 36.3   |       |       |

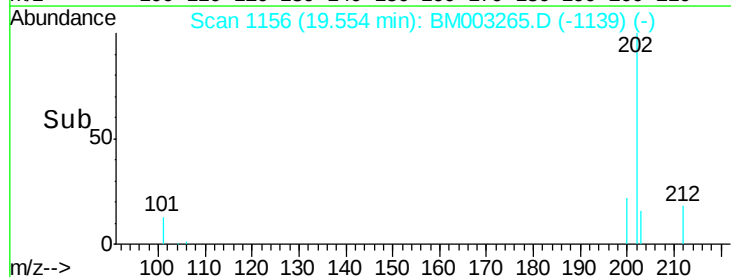
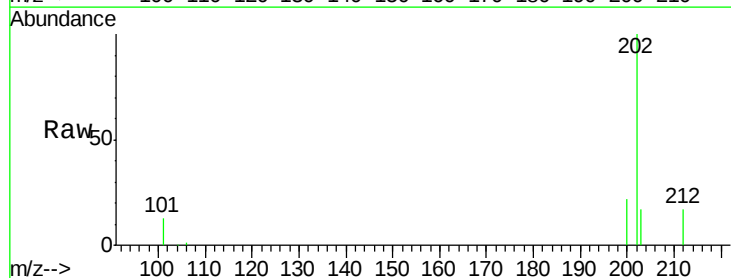
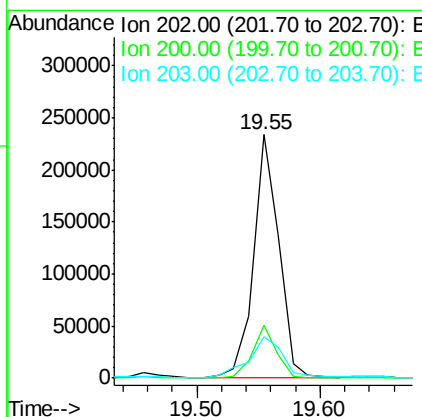
Manual Integrations  
 APPROVED

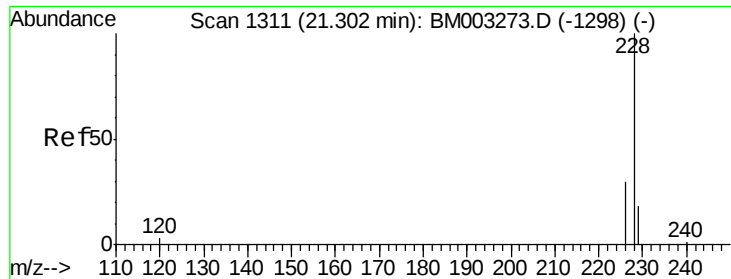
Mmdadoda  
 11/23/2015 7:04:32 PM



#19  
**Pyrene**  
 Concen: 1.70 ng/ul  
 RT: 19.55 min Scan# 1156  
 Delta R.T. -0.00 min  
 Lab File: BM003265.D  
 Acq: 22 Nov 2015 01:16

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 330949 |       |       |
| 200     | 21.7 | 17.8  | 26.8   |       |       |
| 203     | 16.8 | 12.8  | 19.2   |       |       |





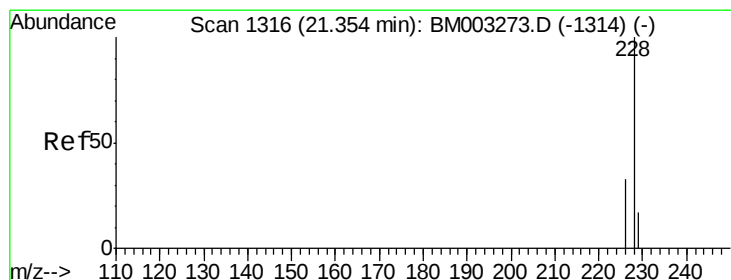
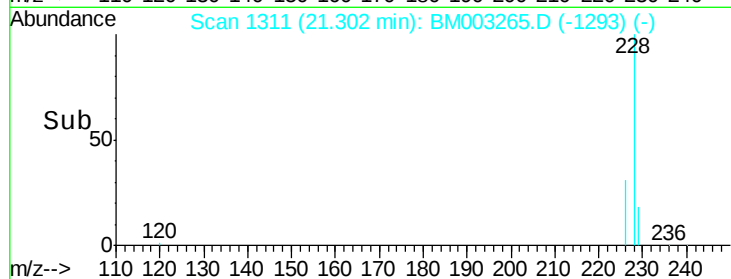
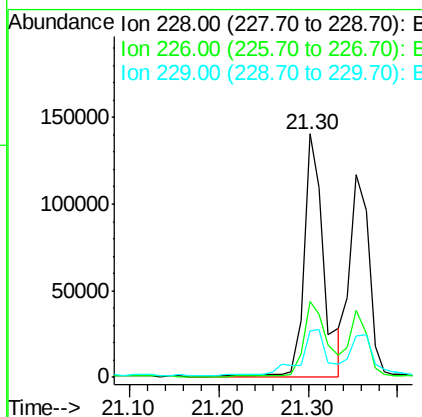
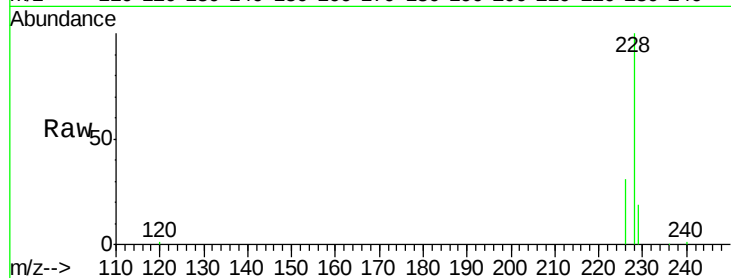
#20  
Benzo(a)anthracene  
Concen: 1.30 ng/ul  
RT: 21.30 min Scan# 1311  
Delta R.T. -0.01 min  
Lab File: BM003265.D  
Acq: 22 Nov 2015 01:16

Instrument :  
BNA\_M  
ClientSampleId :  
A4J51

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 18.8  | 28.2# |
| 229     | 19.0  | 17.1  | 25.7  |

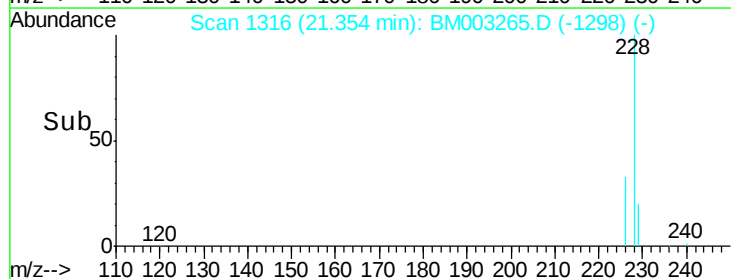
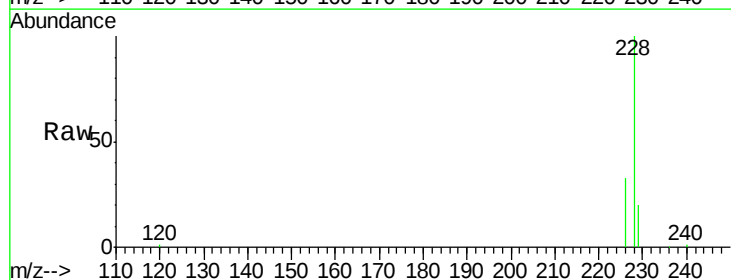
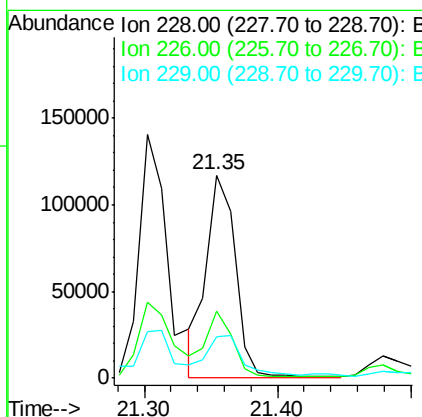
Manual Integrations  
APPROVED

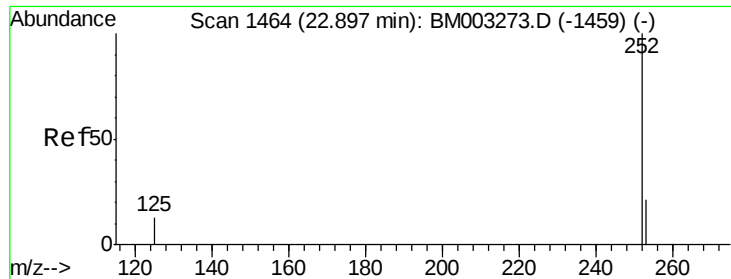
Mmdadoda  
11/23/2015 7:04:32 PM



#21  
Chrysene  
Concen: 0.98 ng/ul m  
RT: 21.35 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BM003265.D  
Acq: 22 Nov 2015 01:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.9  | 21.2  | 31.8# |
| 229     | 20.3  | 17.0  | 25.6  |





#23

Benzo(b)fluoranthene

Concen: 1.15 ng/ul m

RT: 22.91 min Scan# 1465

Delta R.T. 0.01 min

Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

Instrument :

BNA\_M

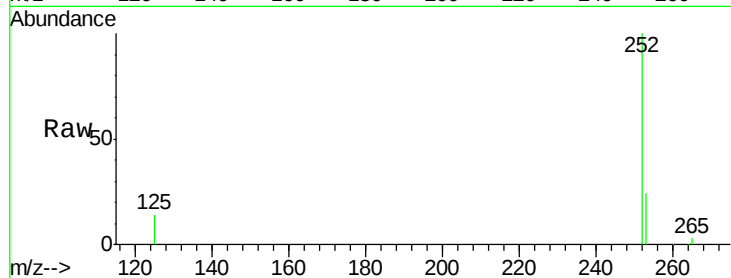
ClientSampleId :

A4J51

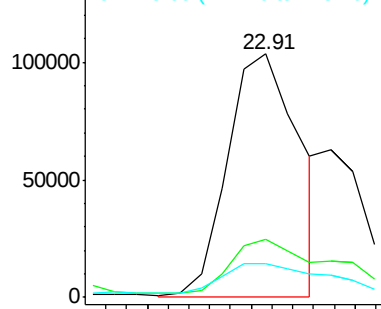
Manual Integrations  
APPROVED

Mmdadoda  
11/23/2015 7:04:32 PM

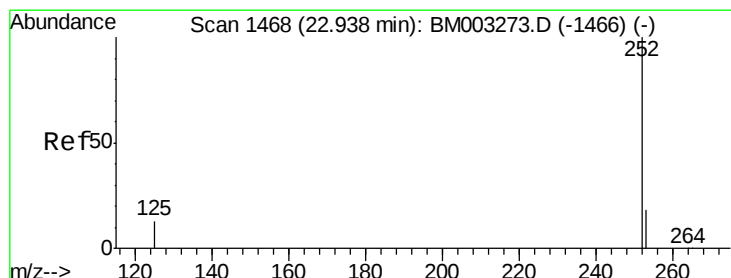
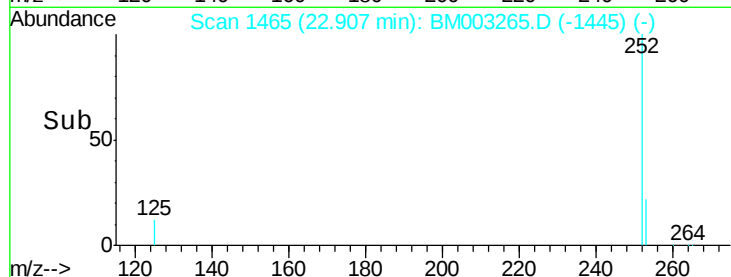
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 248297 |       |       |
| 253     | 23.8  | 0.0    | 45.4  |       |
| 125     | 14.0  | 0.0    | 28.8  |       |



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



Time-->



#24

Benzo(k)fluoranthene

Concen: 0.46 ng/ul m

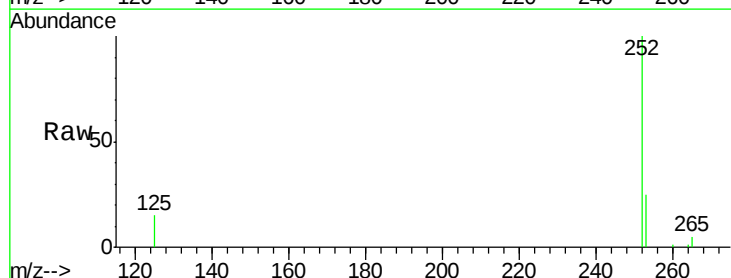
RT: 22.94 min Scan# 1468

Delta R.T. -0.01 min

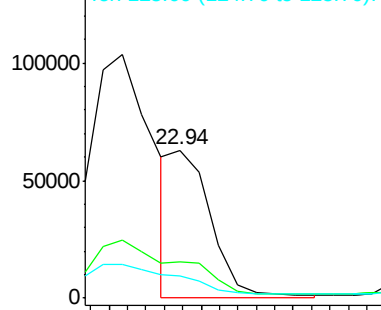
Lab File: BM003265.D

Acq: 22 Nov 2015 01:16

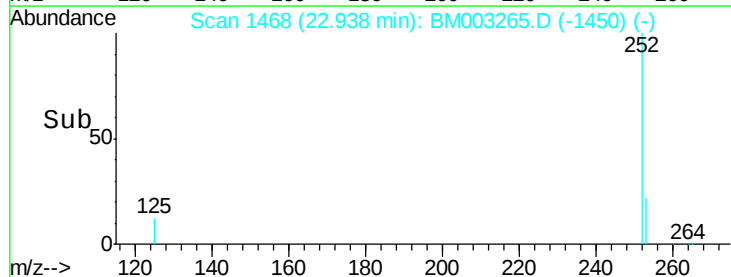
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 94325 |       |       |
| 253     | 24.7  | 19.8  | 29.8  |       |
| 125     | 15.1  | 10.4  | 15.6  |       |

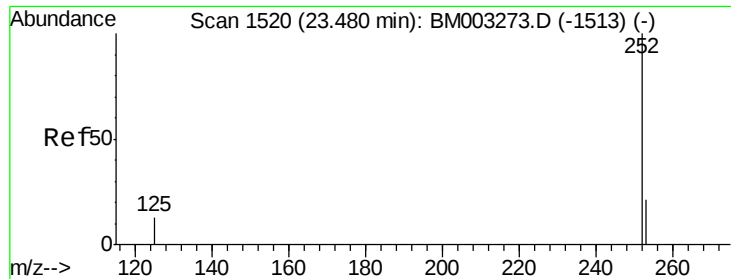


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



Time-->





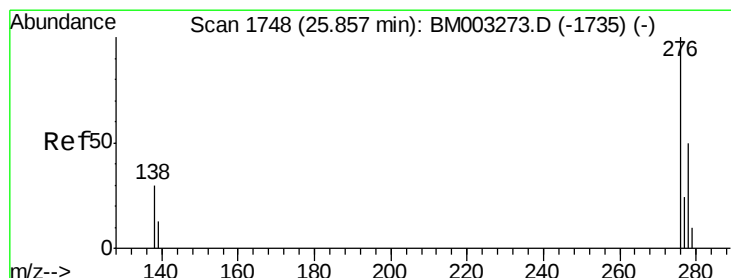
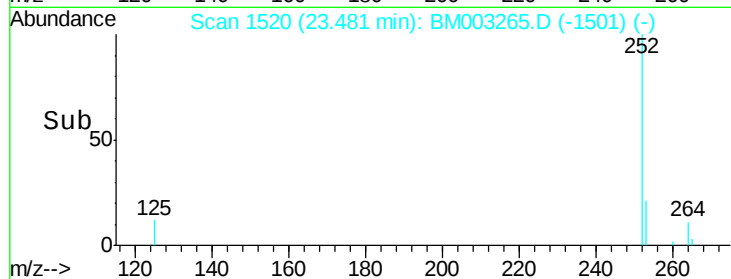
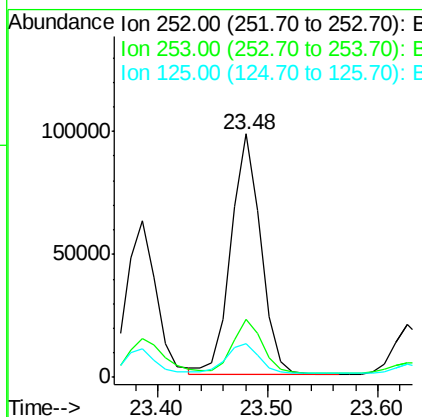
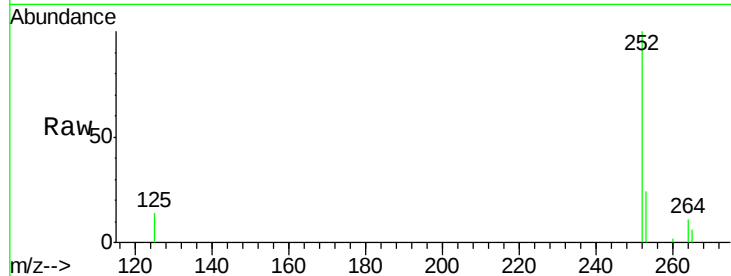
#25  
Benzo(a)pyrene  
Concen: 0.95 ng/ul  
RT: 23.48 min Scan# 1520  
Delta R.T. -0.00 min  
Lab File: BM003265.D  
Acq: 22 Nov 2015 01:16

Instrument :  
BNA\_M  
ClientSampleId :  
A4J51

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 19.4  | 29.2  |
| 125     | 14.1  | 12.7  | 19.1  |

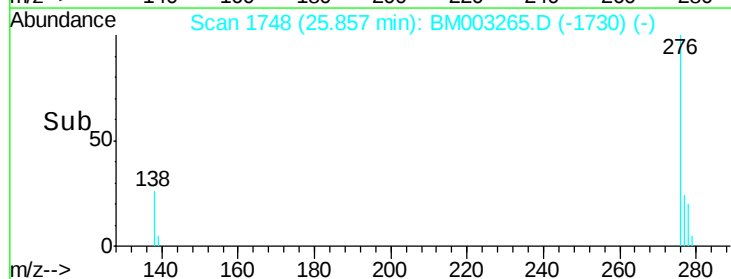
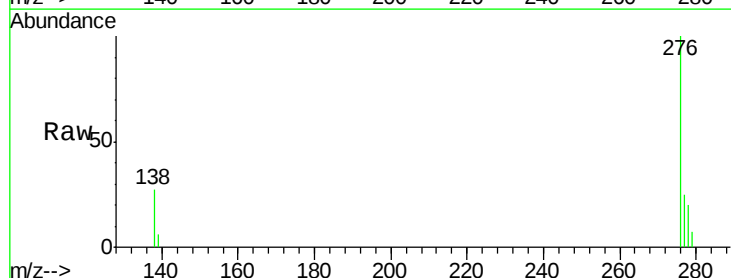
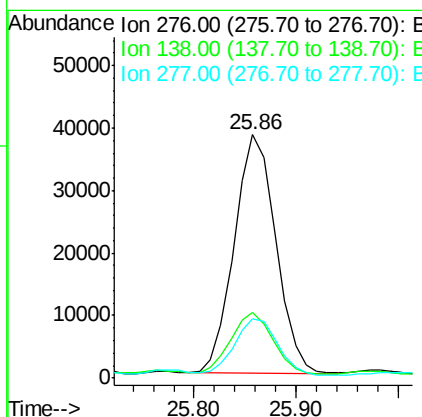
Manual Integrations  
APPROVED

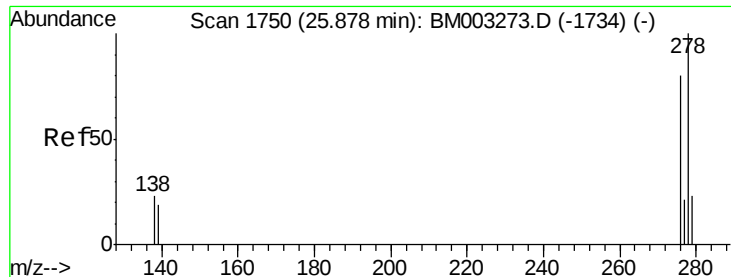
Mmdadoda  
11/23/2015 7:04:32 PM



#26  
Indeno(1,2,3-cd)pyrene  
Concen: 0.47 ng/ul  
RT: 25.86 min Scan# 1748  
Delta R.T. -0.01 min  
Lab File: BM003265.D  
Acq: 22 Nov 2015 01:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.0  | 16.3  | 24.5# |
| 277     | 24.3  | 19.8  | 29.8  |





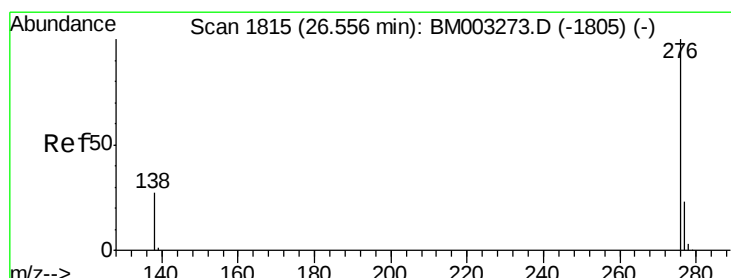
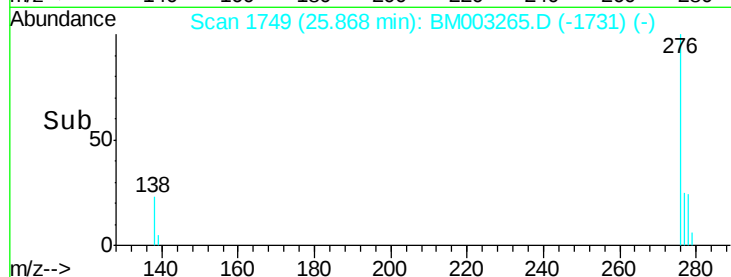
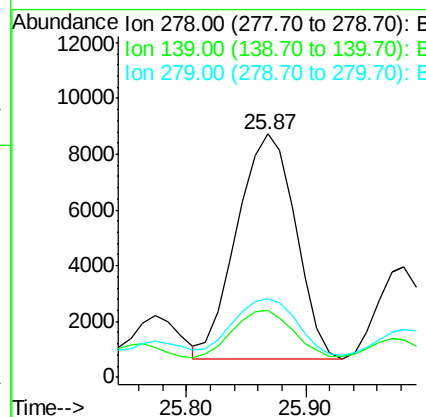
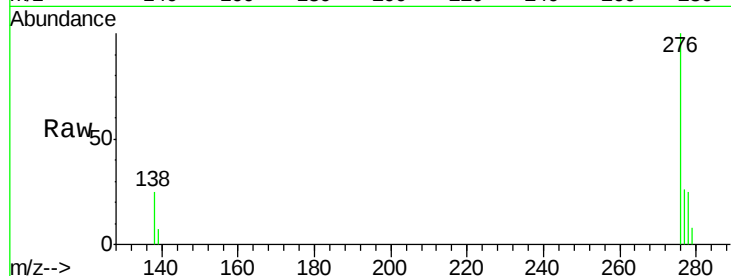
#27  
Dibenzo(a,h)anthracene  
Concen: 0.15 ng/ul  
RT: 25.87 min Scan# 1749  
Delta R.T. -0.01 min  
Lab File: BM003265.D  
Acq: 22 Nov 2015 01:16

Instrument :  
BNA\_M  
ClientSampleId :  
A4J51

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 27.3  | 16.4  | 24.6# |
| 279     | 32.4  | 20.2  | 30.2# |

Manual Integrations  
APPROVED

Mmdadoda  
11/23/2015 7:04:32 PM



#28  
Benzo(g,h,i)perylene  
Concen: 0.51 ng/ul  
RT: 26.56 min Scan# 1815  
Delta R.T. -0.01 min  
Lab File: BM003265.D  
Acq: 22 Nov 2015 01:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.9  | 18.9  | 28.3  |
| 138     | 28.1  | 22.5  | 33.7  |

