

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
 Data File : BM002631.D  
 Acq On : 01 Sep 2015 16:42  
 Operator : UM/IZ  
 Sample : G3456-06  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9E90

Manual Integrations  
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 9/2/2015 1:35:59 PM

Quant Time: Sep 01 17:49:37 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Sep 01 07:11:38 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.78  | 152  | 121050   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 11.65 | 136  | 562528   | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 15.37 | 164  | 288377   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 18.08 | 188  | 478555   | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 22.16 | 240  | 399027   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.79 | 264  | 406076   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 15.07 | 160  | 722857   | 24.52 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 16.34 | 176  | 438374   | 21.17 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 18.18 | 188  | 562587   | 24.37 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 20.40 | 212  | 381518   | 21.57 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.62 | 264  | 313813   | 14.71 | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 13) Phenanthrene            | 18.12 | 178  | 36328    | 1.31  | ng/ul  | Qvalue 98 |
| 16) Fluoranthene            | 20.07 | 202  | 72750    | 2.33  | ng/ul  | 99        |
| 19) Pyrene                  | 20.43 | 202  | 60583    | 2.59  | ng/ul  | 98        |
| 20) Benzo(a)anthracene      | 22.14 | 228  | 36106    | 1.51  | ng/ul  | 98        |
| 21) Chrysene                | 22.20 | 228  | 40024m   | 1.79  | ng/ul  |           |
| 23) Benzo(b)fluoranthene    | 23.98 | 252  | 68722    | 2.80  | ng/ul# | 91        |
| 26) Benzo(a)pyrene          | 24.67 | 252  | 45285    | 1.93  | ng/ul# | 92        |
| 27) Indeno(1,2,3-cd)pyrene  | 27.56 | 276  | 37213    | 1.38  | ng/ul  | 94        |
| 29) Benzo(g,h,i)perylene    | 28.43 | 276  | 41107    | 1.83  | ng/ul  | 94        |

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

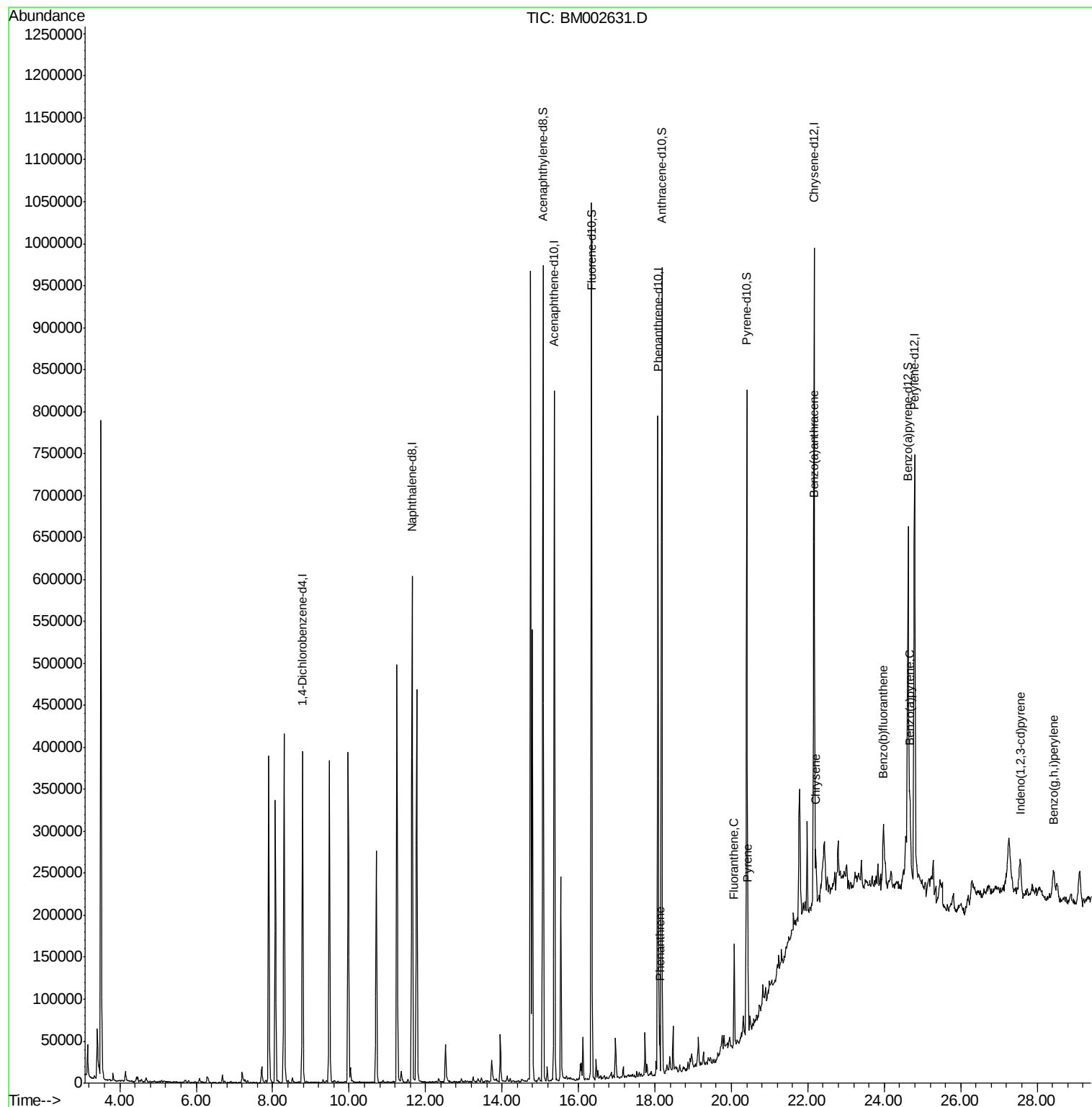
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083115\  
Data File : BM002631.D  
Acq On : 01 Sep 2015 16:42  
Operator : UM/IZ  
Sample : G3456-06  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

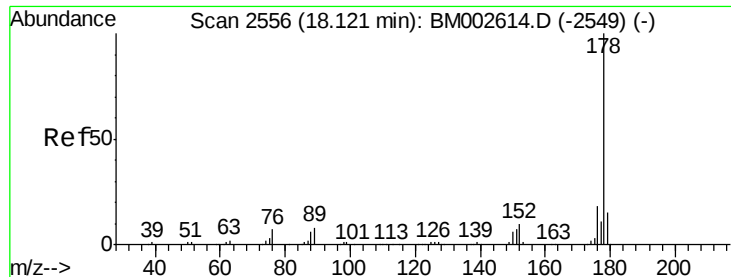
Instrument :  
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Quant Time: Sep 01 17:49:37 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Sep 01 07:11:38 2015  
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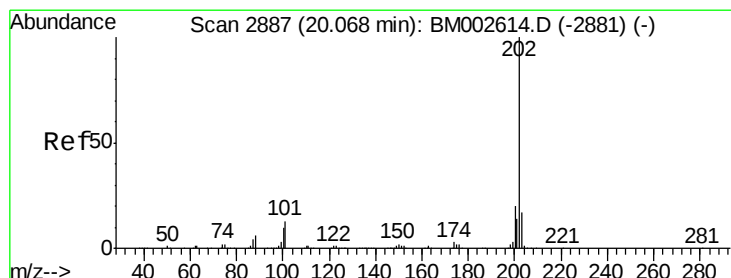
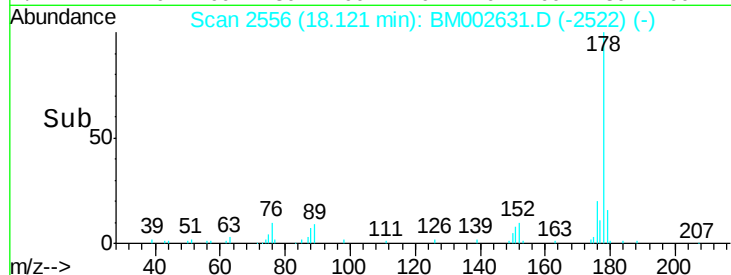
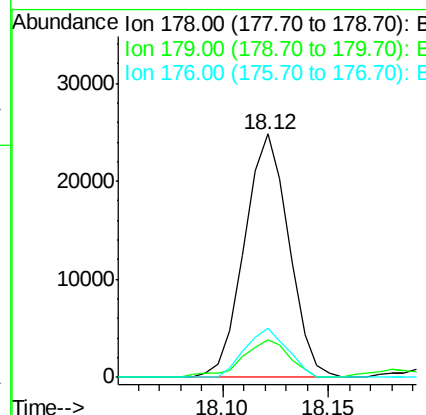
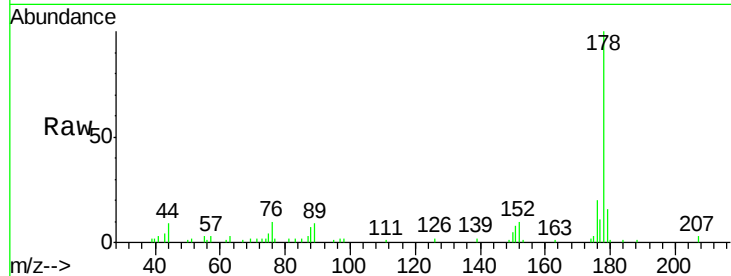
#13  
Phenanthrene  
Concen: 1.31 ng/ul  
RT: 18.12 min Scan# 2556  
Delta R.T. -0.00 min  
Lab File: BM002631.D  
Acq: 01 Sep 2015 16:42

Instrument :  
BNA\_M  
ClientSampleId :  
D9E90

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 36328 |       |       |
| 179     | 15.6  |       | 12.4  | 18.6  |
| 176     | 20.4  |       | 15.1  | 22.7  |

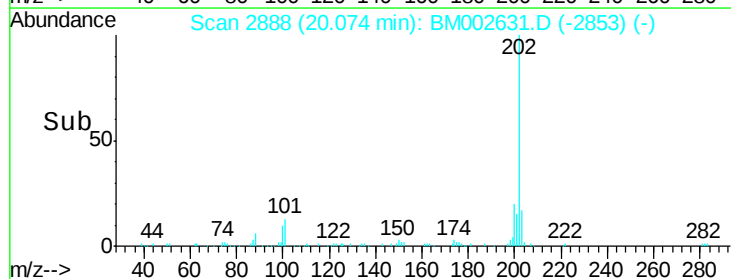
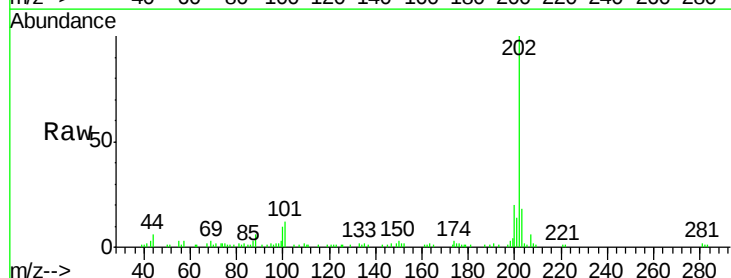
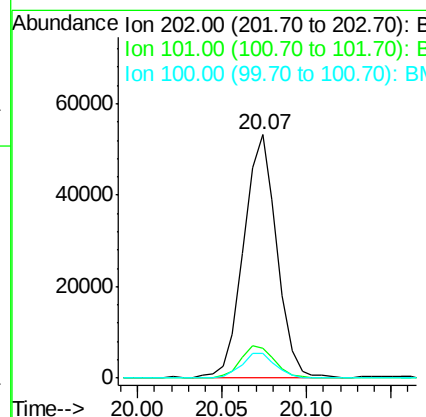
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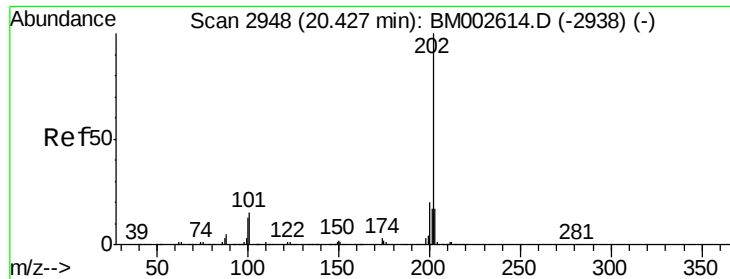
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#16  
Fluoranthene  
Concen: 2.33 ng/ul  
RT: 20.07 min Scan# 2888  
Delta R.T. 0.01 min  
Lab File: BM002631.D  
Acq: 01 Sep 2015 16:42

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 72750 |       |       |
| 101     | 12.5  |       | 9.7   | 14.5  |
| 100     | 10.0  |       | 7.4   | 11.2  |





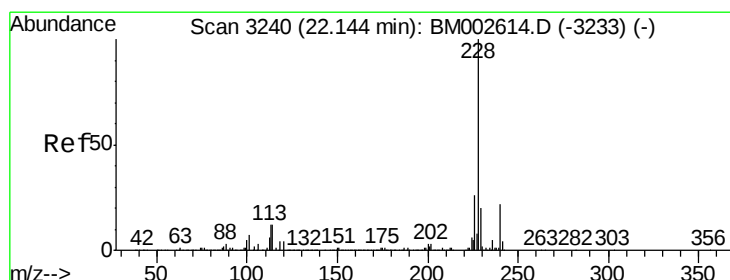
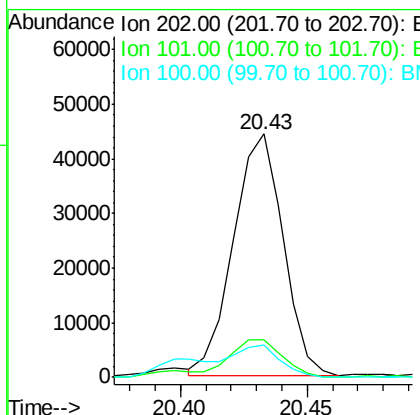
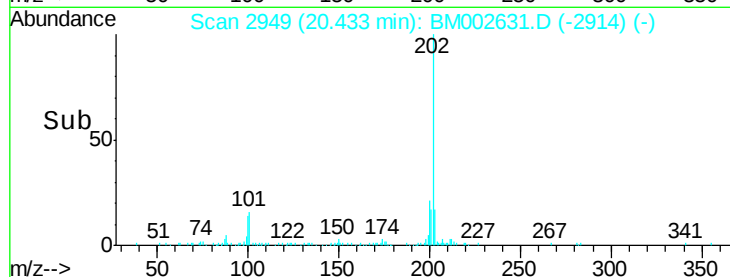
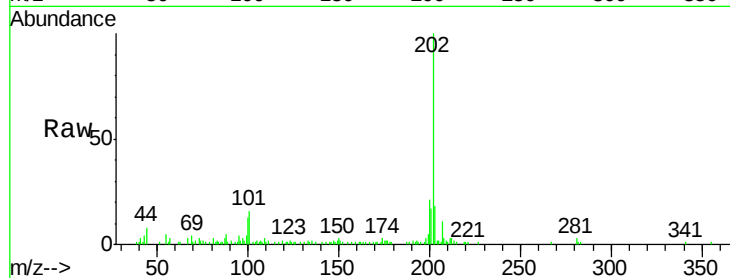
#19  
 Pyrene  
 Concen: 2.59 ng/ul  
 RT: 20.43 min Scan# 2949  
 Delta R.T. 0.01 min  
 Lab File: BM002631.D  
 Acq: 01 Sep 2015 16:42

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9E90

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 15.6  | 12.0       | 18.0       |
| 100     | 13.3  | 9.7        | 14.5       |

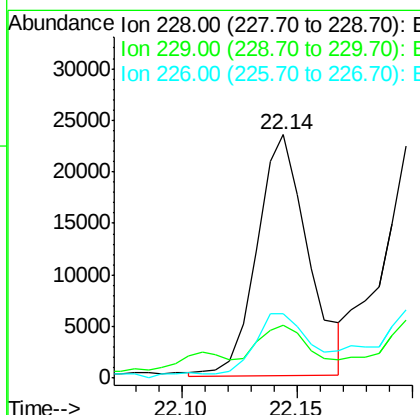
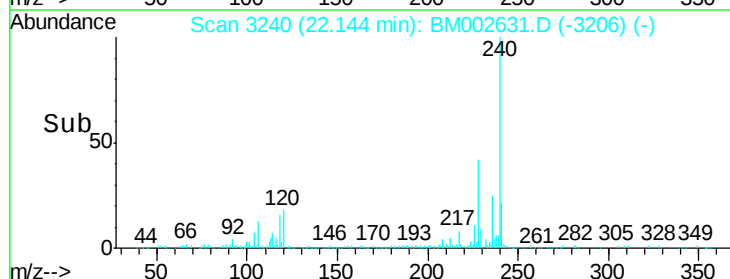
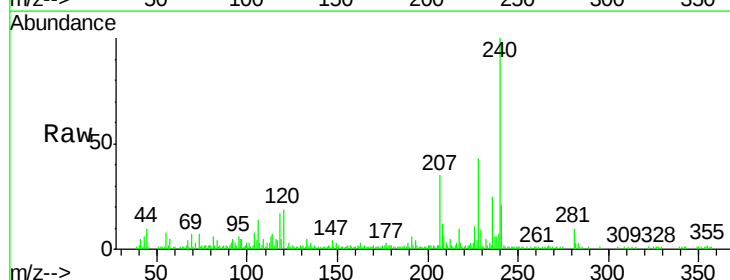
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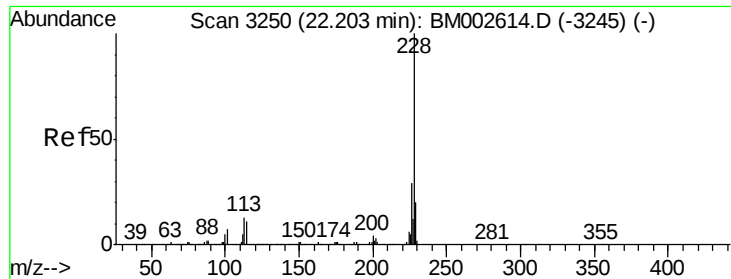
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#20  
 Benzo(a)anthracene  
 Concen: 1.51 ng/ul  
 RT: 22.14 min Scan# 3240  
 Delta R.T. -0.00 min  
 Lab File: BM002631.D  
 Acq: 01 Sep 2015 16:42

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 21.9  | 15.8       | 23.6       |
| 226     | 26.5  | 21.1       | 31.7       |





#21

Chrysene

Concen: 1.79 ng/ul m

RT: 22.20 min Scan# 3250

Delta R.T. -0.00 min

Lab File: BM002631.D

Acq: 01 Sep 2015 16:42

Instrument :

BNA\_M

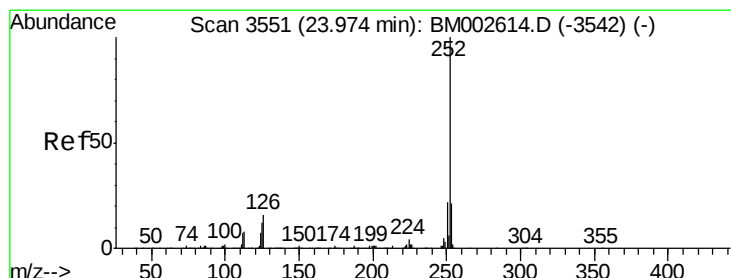
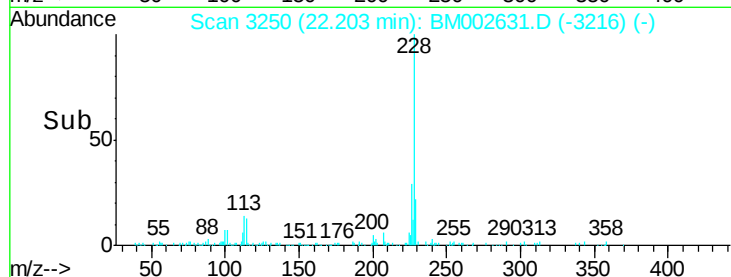
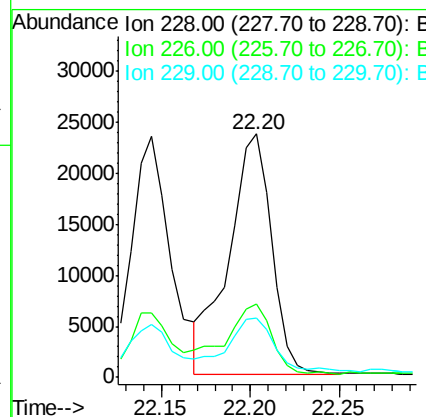
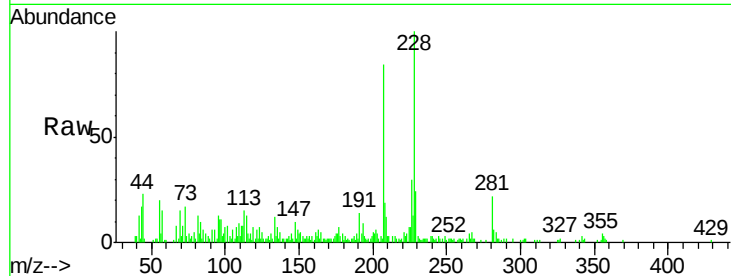
ClientSampleId :

D9E90

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 40024 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 30.1 | 23.4  | 35.2  |
| 229       | 24.2 | 15.7  | 23.5# |

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9/2/2015 1:35:59 PM



#23

Benzo(b)fluoranthene

Concen: 2.80 ng/ul

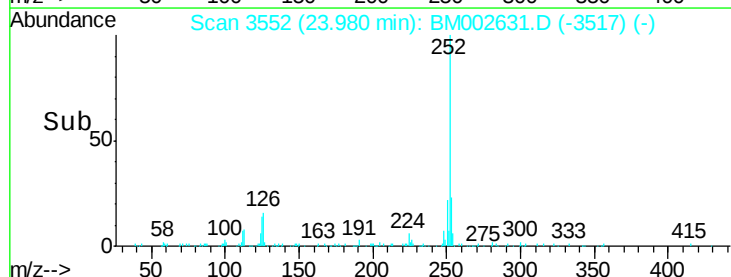
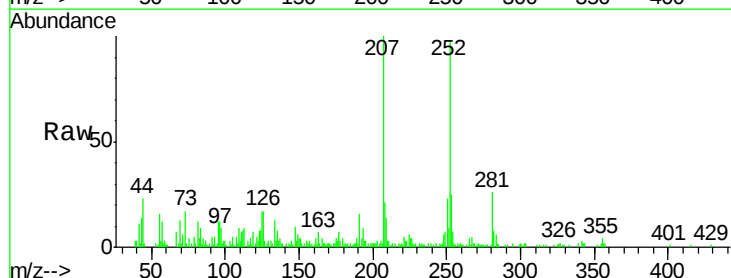
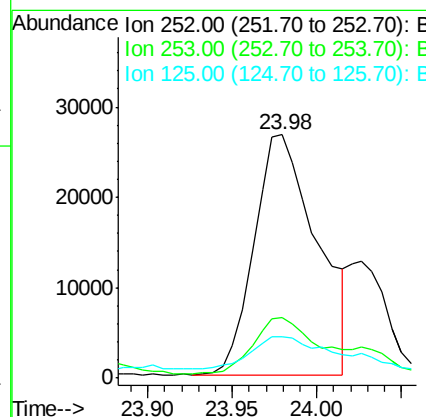
RT: 23.98 min Scan# 3552

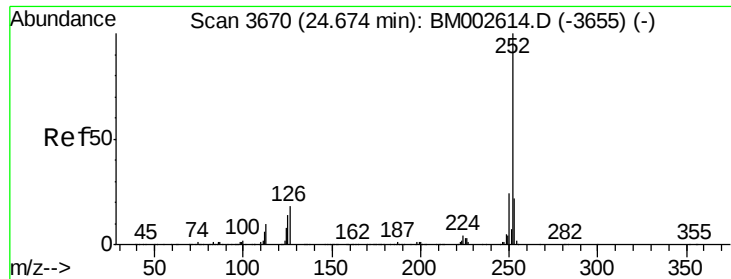
Delta R.T. 0.01 min

Lab File: BM002631.D

Acq: 01 Sep 2015 16:42

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 68722 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 24.9 | 17.4  | 26.0  |
| 125       | 17.1 | 10.0  | 15.0# |





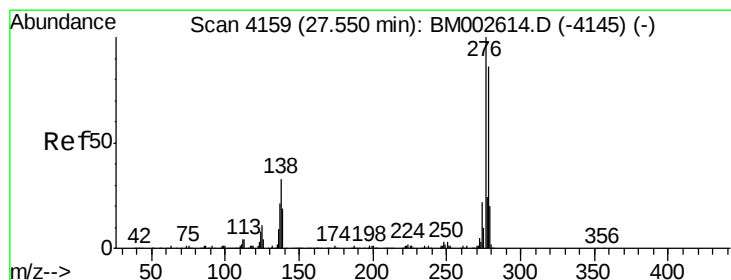
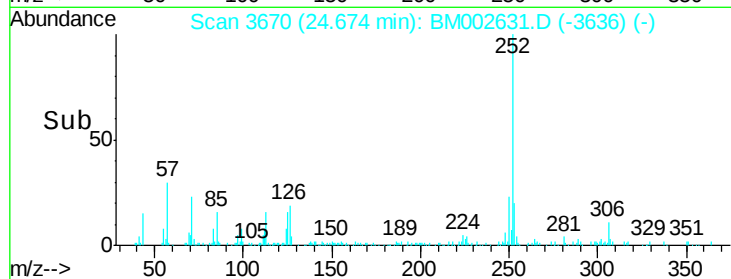
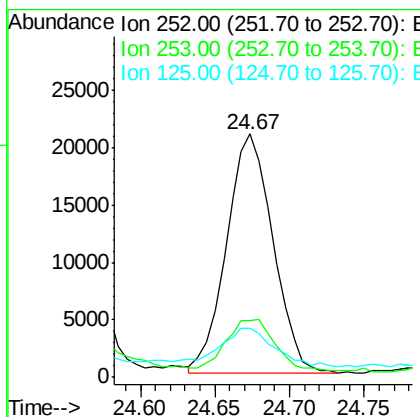
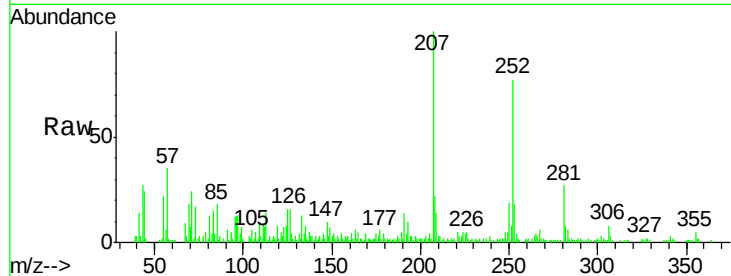
#26  
Benzo(a)pyrene  
Concen: 1.93 ng/ul  
RT: 24.67 min Scan# 3670  
Delta R.T. -0.00 min  
Lab File: BM002631.D  
Acq: 01 Sep 2015 16:42

Instrument :  
BNA\_M  
ClientSampleId :  
D9E90

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.2  | 17.6       | 26.4       |
| 125     | 20.3  | 10.7       | 16.1       |

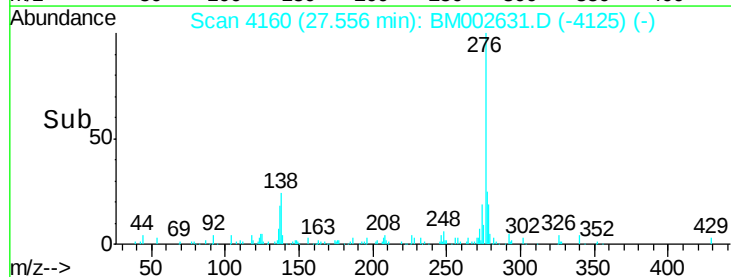
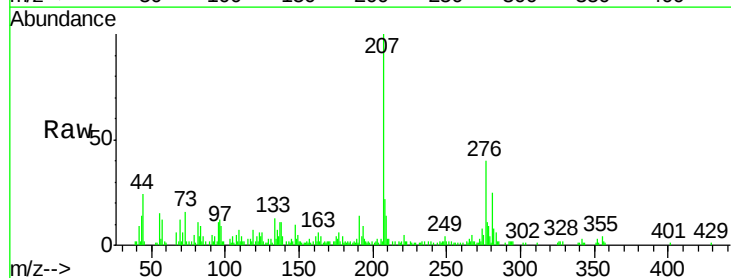
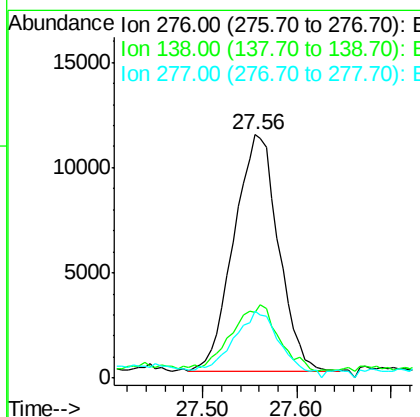
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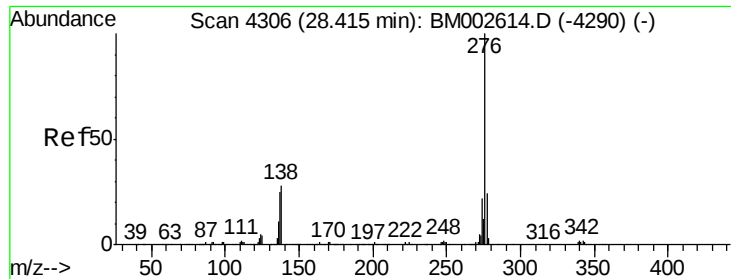
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#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.38 ng/ul  
RT: 27.56 min Scan# 4160  
Delta R.T. 0.01 min  
Lab File: BM002631.D  
Acq: 01 Sep 2015 16:42

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 27.1  | 25.3       | 37.9       |
| 277     | 27.3  | 20.2       | 30.2       |





#29

Benzo(g,h,i)perylene

Concen: 1.83 ng/ul

RT: 28.43 min Scan# 4308

Delta R.T. 0.01 min

Lab File: BM002631.D

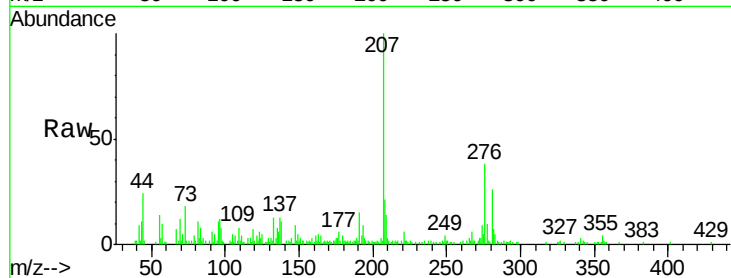
Acq: 01 Sep 2015 16:42

Instrument :

BNA\_M

ClientSampleId :

D9E90



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 41107 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 30.6  | 21.0  | 31.6  |
| 277       | 25.5  | 19.2  | 28.8  |

Manual Integrations  
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