

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112316\  
 Data File : BM008052.D  
 Acq On : 24 Nov 2016 02:01  
 Operator : UM/SJ  
 Sample : H5694-02  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JHSR1

Manual Integrations  
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Quant Time: Nov 28 10:38:25 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 25 01:27:01 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.73  | 152  | 554      | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.49 | 136  | 1859     | 0.40  | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.35 | 164  | 1129     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.09 | 188  | 2383m    | 0.40  | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.28 | 240  | 2758     | 0.40  | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.52 | 264  | 2312m    | 0.40  | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 581      | 0.22  | ng/ul  | 0.01     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 1731m    | 0.26  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       |        | Ovalue   |
| 3) Naphthalene              | 10.54 | 128  | 1148     | 0.22  | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 12.18 | 142  | 575      | 0.17  | ng/ul  | 100      |
| 8) Acenaphthene             | 14.40 | 153  | 4389     | 1.13  | ng/ul  | 95       |
| 9) Fluorene                 | 15.41 | 166  | 7064     | 1.58  | ng/ul  | 94       |
| 12) Phenanthrene            | 17.12 | 178  | 84198    | 11.35 | ng/ul  | 95       |
| 13) Anthracene              | 17.23 | 178  | 35796    | 5.14  | ng/ul# | 93       |
| 15) Fluoranthene            | 19.16 | 202  | 187153   | 19.54 | ng/ul  | 93       |
| 17) Pyrene                  | 19.52 | 202  | 146236   | 15.27 | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.26 | 228  | 110204   | 13.02 | ng/ul  | 95       |
| 19) Chrysene                | 21.31 | 228  | 83337    | 7.91  | ng/ul  | 93       |
| 21) Benzo(b)fluoranthene    | 22.85 | 252  | 111556m  | 12.09 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.89 | 252  | 34727m   | 3.65  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.42 | 252  | 74536m   | 8.62  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.77 | 276  | 42708m   | 4.00  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.78 | 278  | 14095m   | 1.65  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 26.45 | 276  | 31575m   | 3.33  | ng/ul  |          |

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

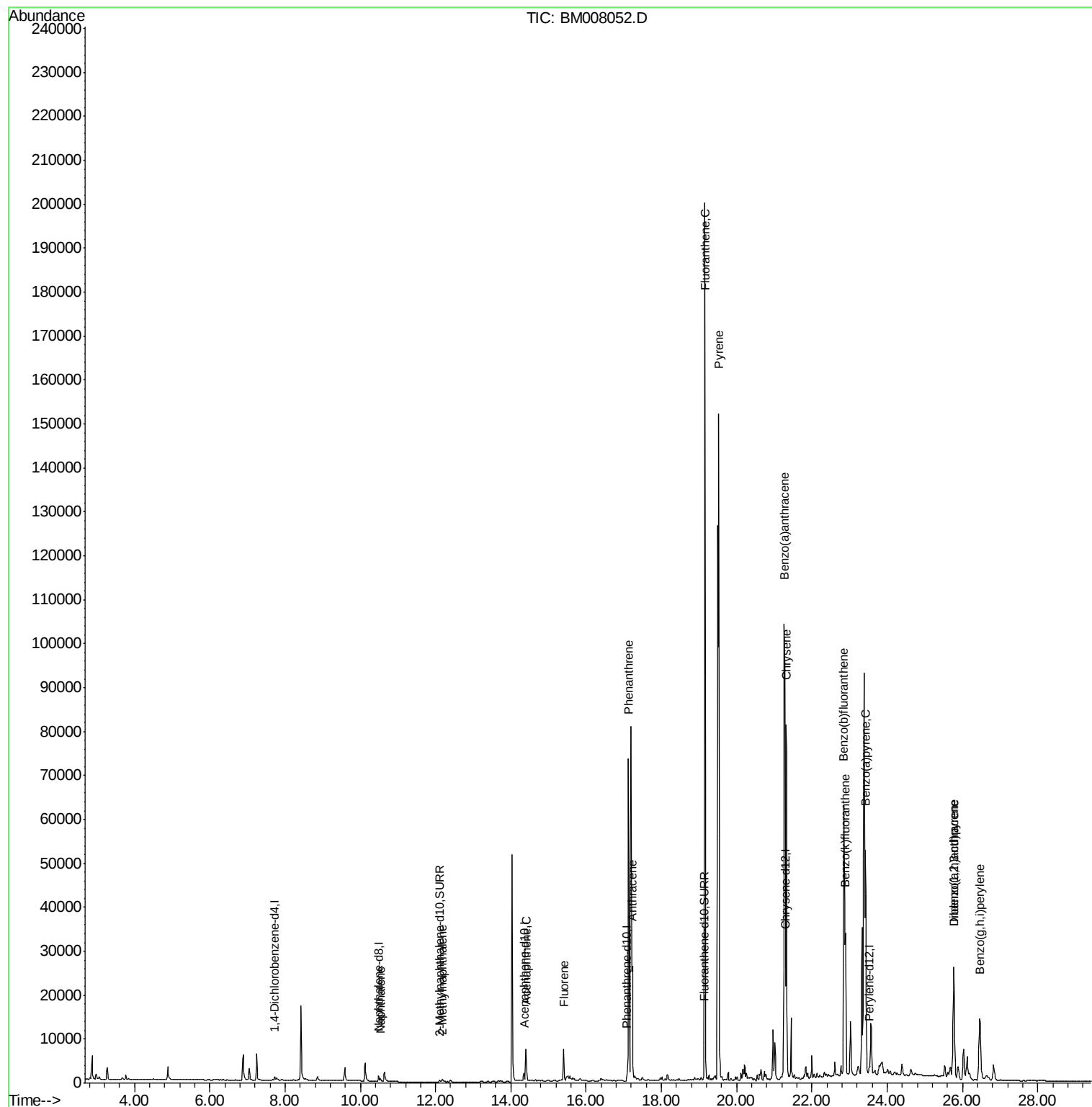
Data Path : Z:\HPCHEM1\BNA M\DATA\BM112316\  
Data File : BM008052.D  
Acq On : 24 Nov 2016 02:01  
Operator : UM/SJ  
Sample : H5694-02  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

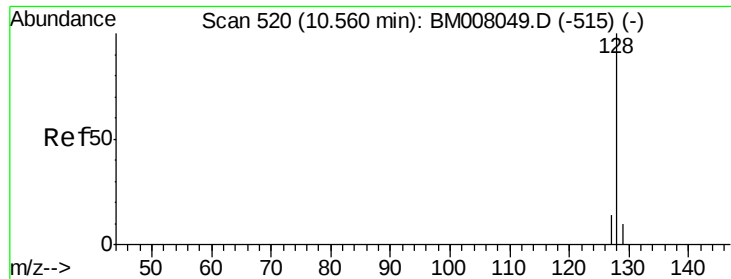
Instrument :  
BNA\_M  
ClientSampleId :  
JHSR1

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Quant Time: Nov 28 10:38:25 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 25 01:27:01 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.22 ng/ul

RT: 10.54 min Scan# 518

Delta R.T. -0.01 min

Lab File: BM008052.D

Acq: 24 Nov 2016 02:01

Instrument :

BNA\_M

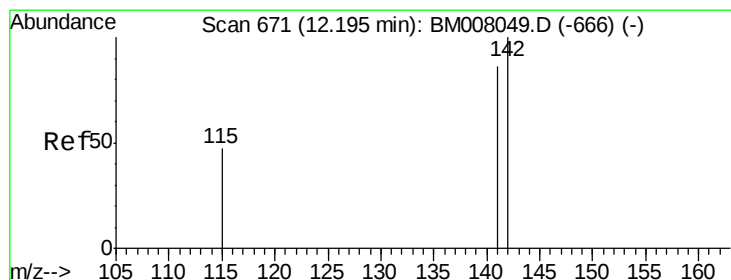
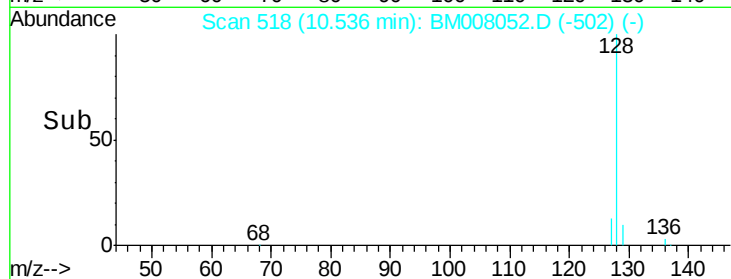
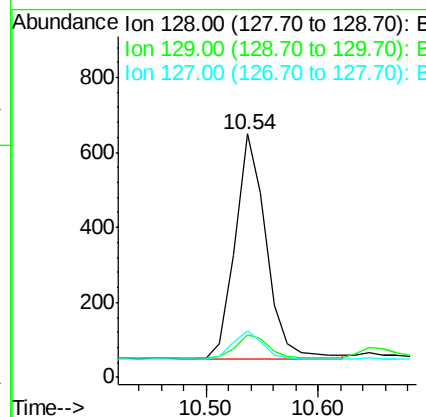
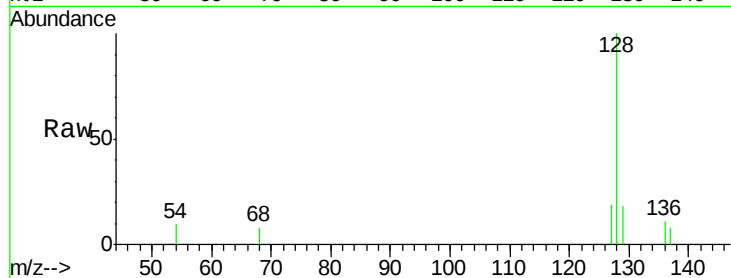
ClientSampleId :

JHSR1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 17.7  | 11.3  | 16.9# |
| 127     | 19.4  | 12.8  | 19.2# |

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#5

2-Methylnaphthalene

Concen: 0.17 ng/ul

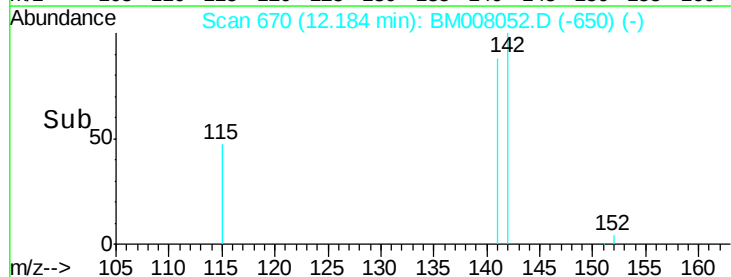
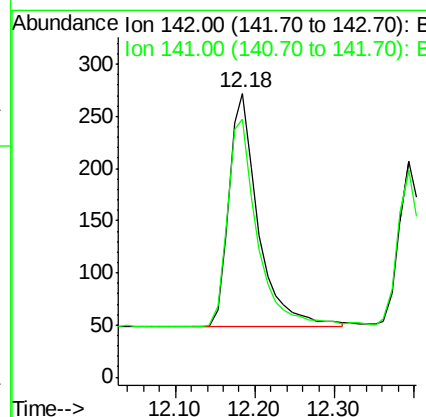
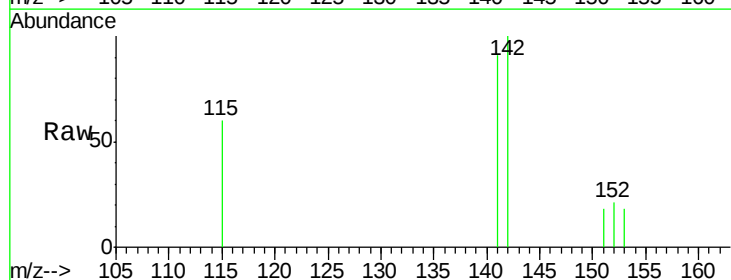
RT: 12.18 min Scan# 670

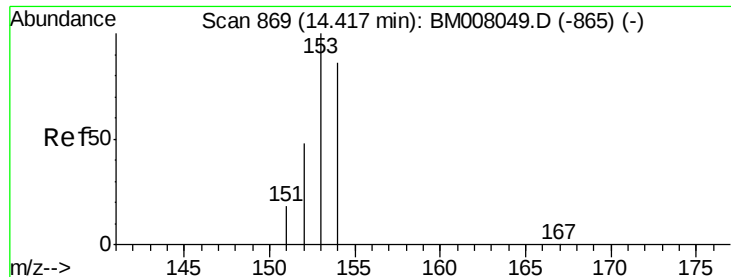
Delta R.T. 0.01 min

Lab File: BM008052.D

Acq: 24 Nov 2016 02:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.0  | 72.6  | 108.8 |





#8

Acenaphthene

Concen: 1.13 ng/ul

RT: 14.40 min Scan# 868

Delta R.T. 0.00 min

Lab File: BM008052.D

Acq: 24 Nov 2016 02:01

Instrument :

BNA\_M

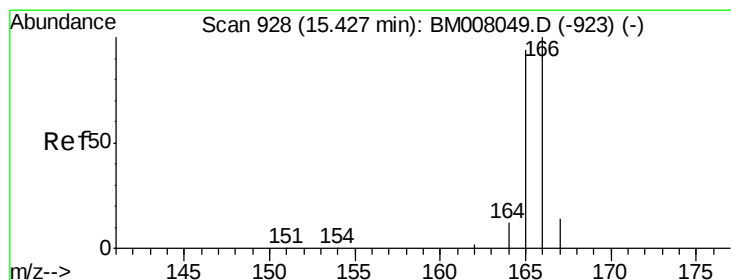
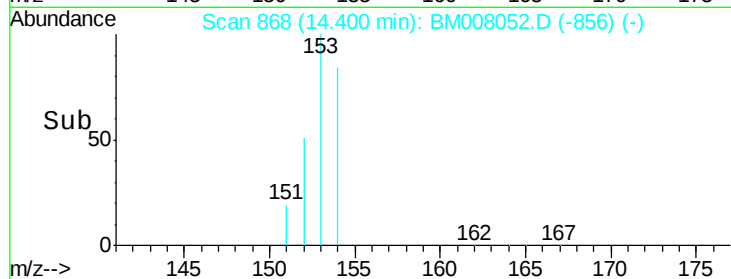
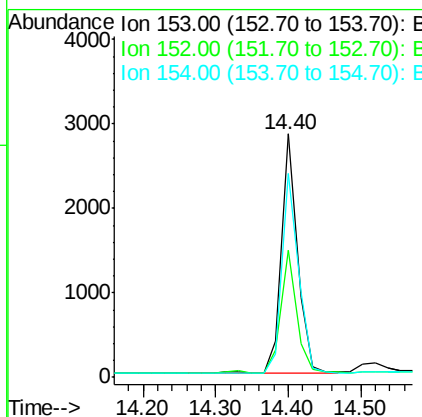
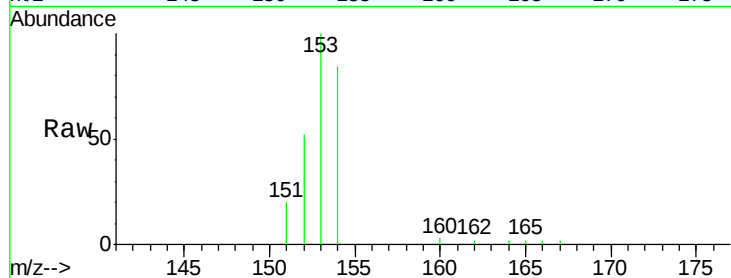
ClientSampleId :

JHSR1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 4389  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.2  | 40.3  | 60.5  |
| 154       | 83.9  | 71.4  | 107.2 |

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#9

Fluorene

Concen: 1.58 ng/ul

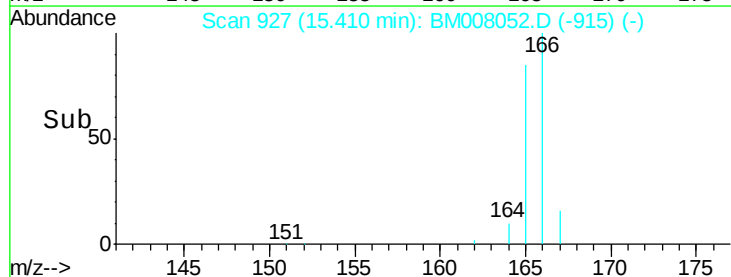
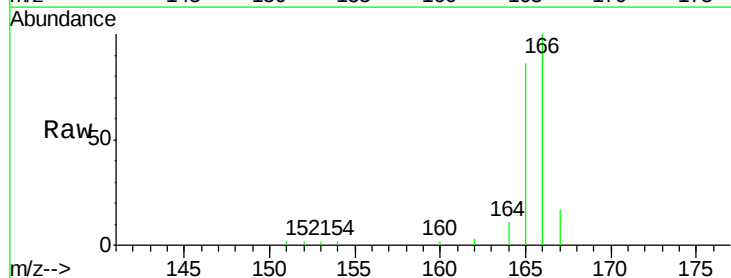
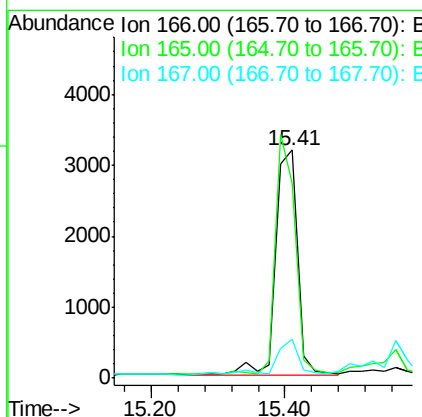
RT: 15.41 min Scan# 927

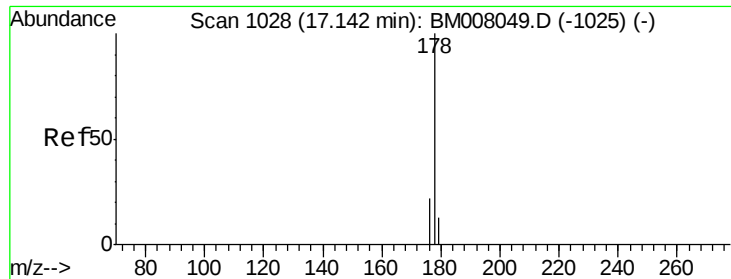
Delta R.T. 0.00 min

Lab File: BM008052.D

Acq: 24 Nov 2016 02:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 7064  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 85.6  | 73.4  | 110.2 |
| 167       | 17.1  | 14.6  | 22.0  |





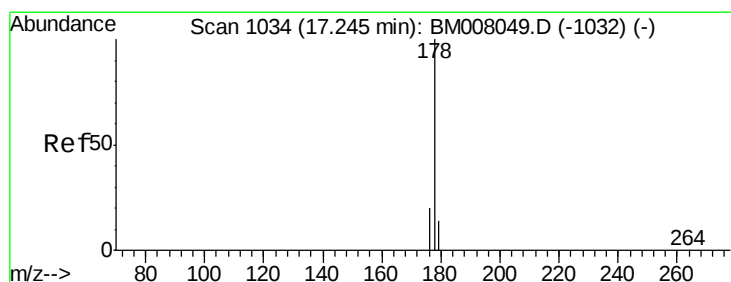
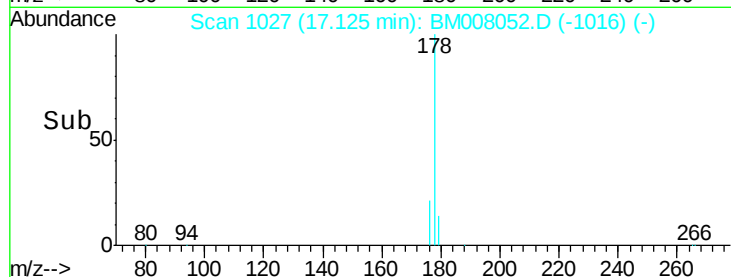
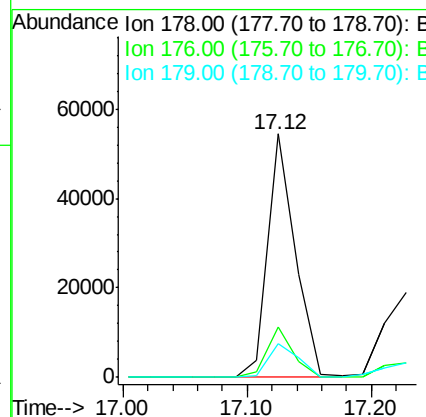
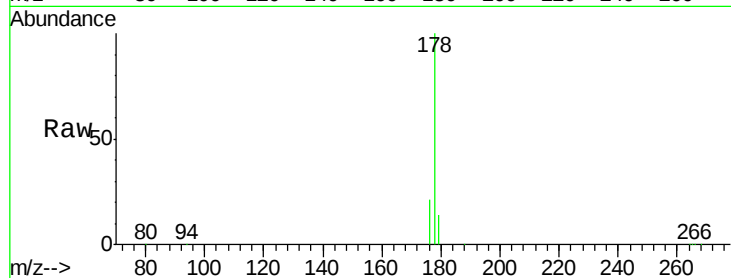
#12  
Phenanthrene  
Concen: 11.35 ng/ul  
RT: 17.12 min Scan# 1027  
Delta R.T. -0.02 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

Instrument :  
BNA\_M  
ClientSampleId :  
JHSR1

Tot Ion:178 Resp: 84198  
Ion Ratio Lower Upper  
178 100  
176 20.9 18.4 27.6  
179 14.1 13.6 20.4

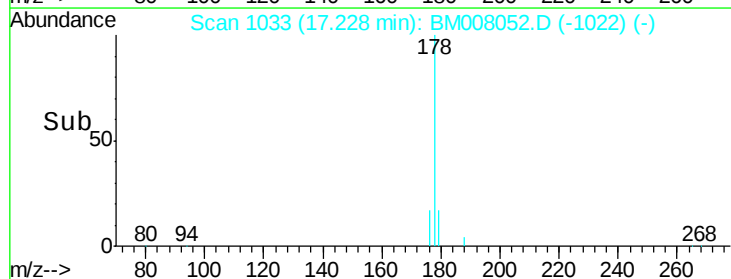
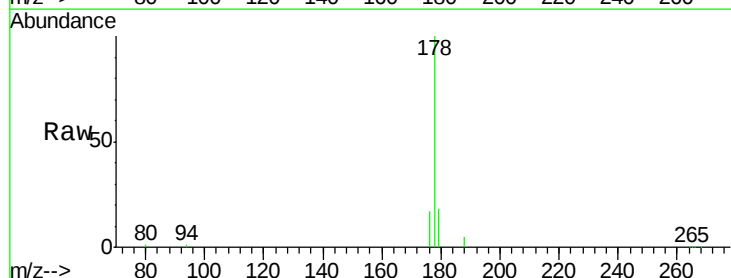
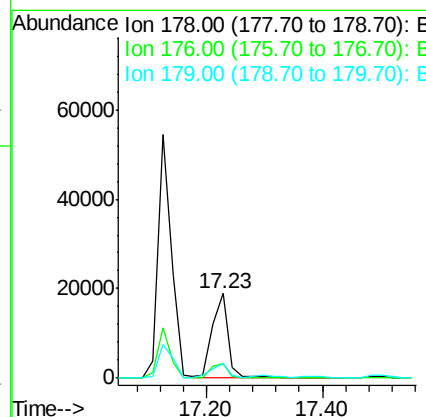
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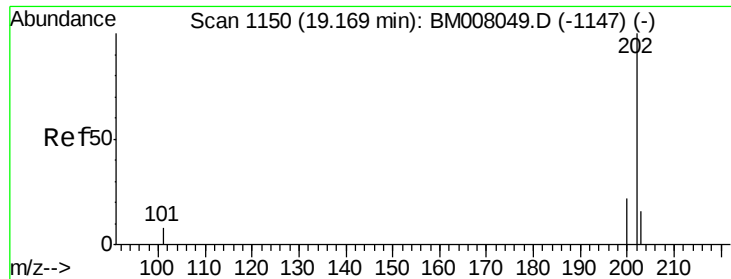
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#13  
Anthracene  
Concen: 5.14 ng/ul  
RT: 17.23 min Scan# 1033  
Delta R.T. -0.02 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

Tgt Ion:178 Resp: 35796  
Ion Ratio Lower Upper  
178 100  
176 17.2 18.1 27.1#  
179 17.6 14.7 22.1





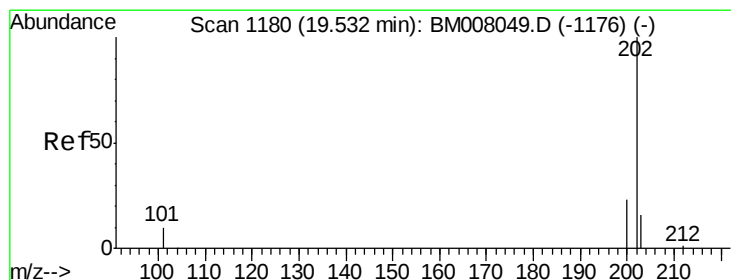
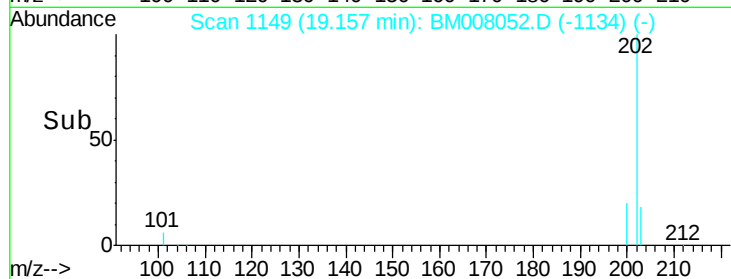
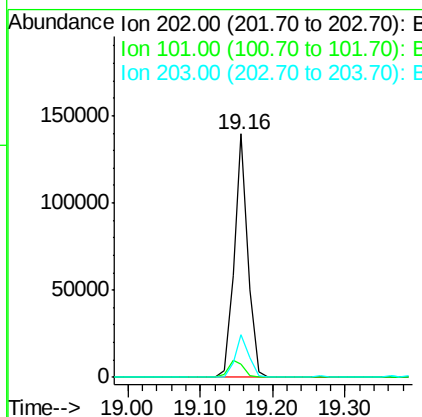
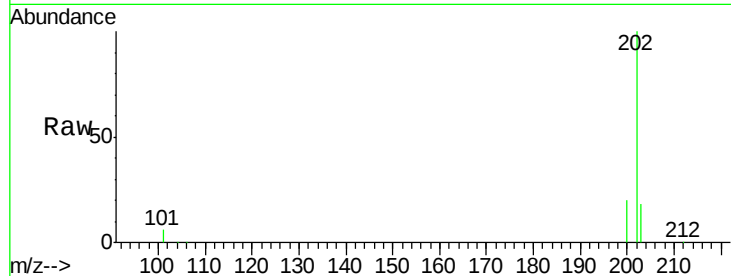
#15  
Fluoranthene  
Concen: 19.54 ng/ul  
RT: 19.16 min Scan# 1149  
Delta R.T. -0.01 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

Instrument :  
BNA\_M  
ClientSampleId :  
JHSR1

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 5.6   | 0.0        | 30.3       |
| 203     | 17.6  | 0.0        | 39.5       |

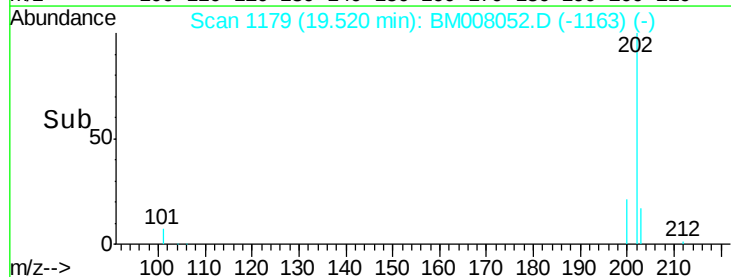
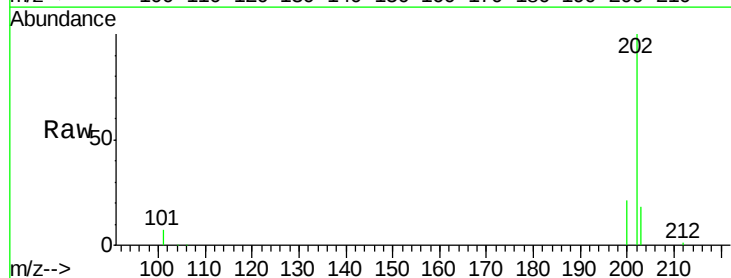
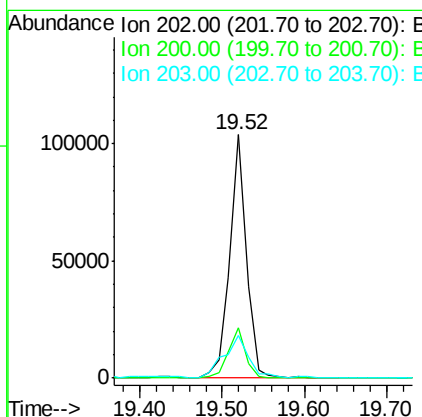
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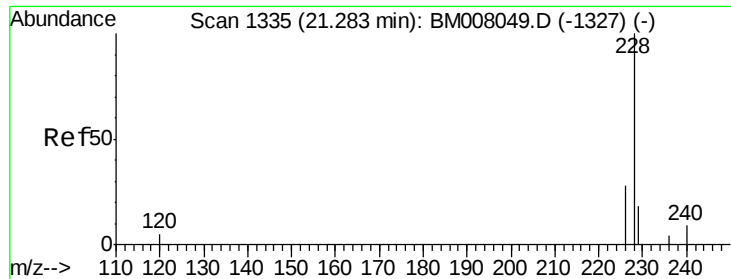
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#17  
Pyrene  
Concen: 15.27 ng/ul  
RT: 19.52 min Scan# 1179  
Delta R.T. -0.01 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.7  | 18.2       | 27.4       |
| 203     | 17.6  | 15.6       | 23.4       |





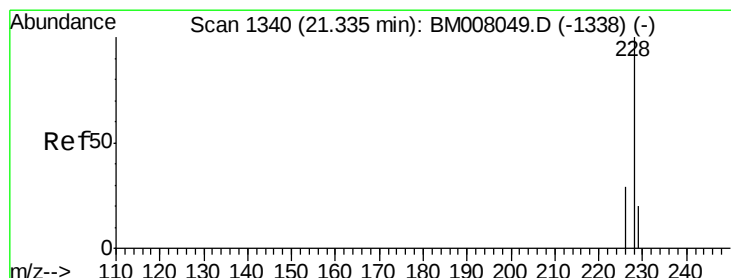
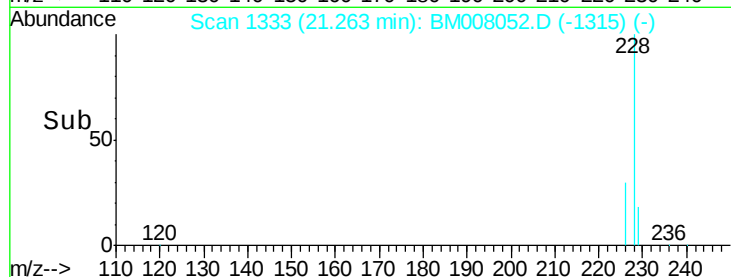
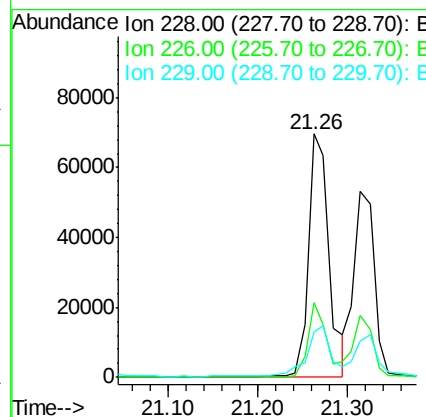
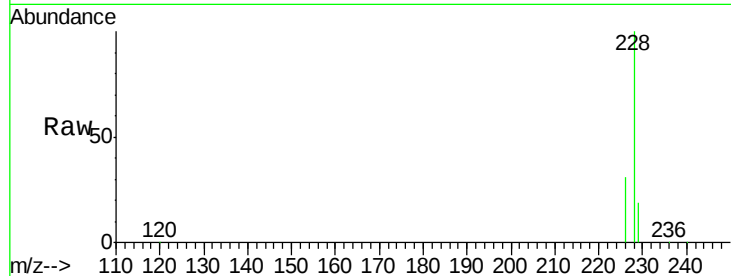
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Benzo(a)anthracene  
Concen: 13.02 ng/ul  
RT: 21.26 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

Instrument :  
BNA\_M  
ClientSampleId :  
JHSR1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 22.8  | 34.2  |
| 229     | 18.7  | 17.0  | 25.6  |

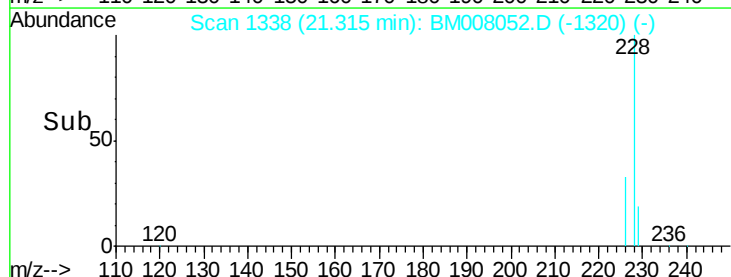
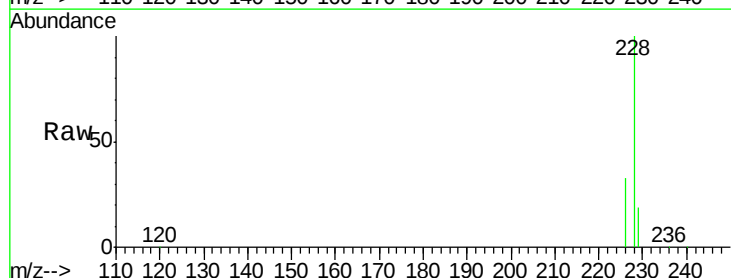
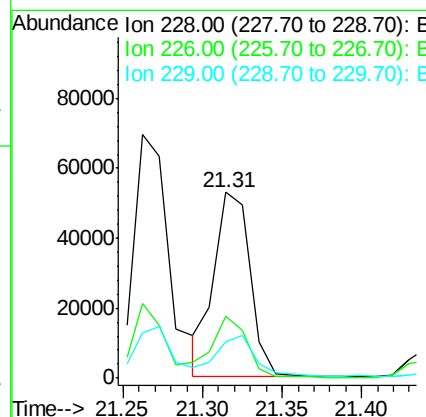
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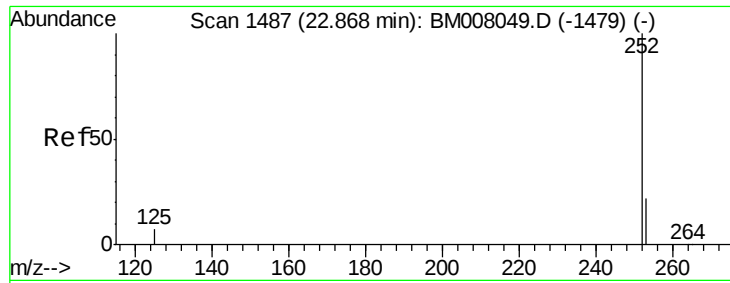
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#19  
Chrysene  
Concen: 7.91 ng/ul  
RT: 21.31 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.4  | 23.4  | 35.0  |
| 229     | 19.3  | 17.7  | 26.5  |





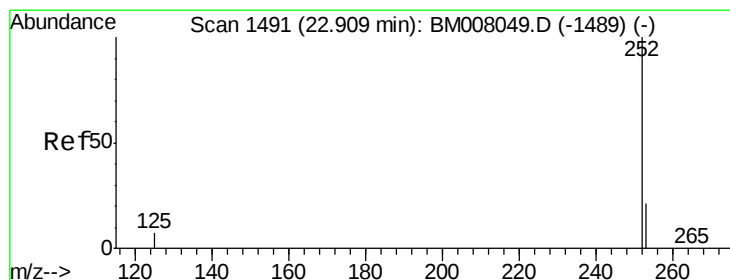
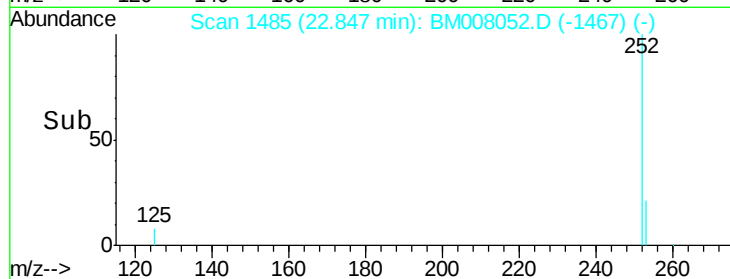
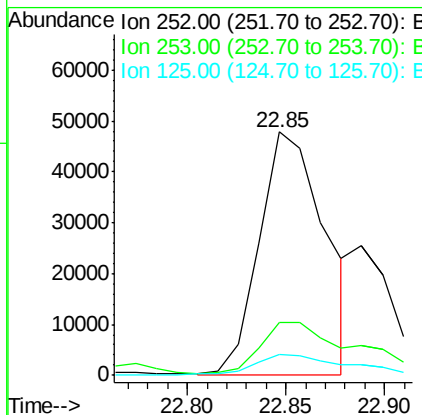
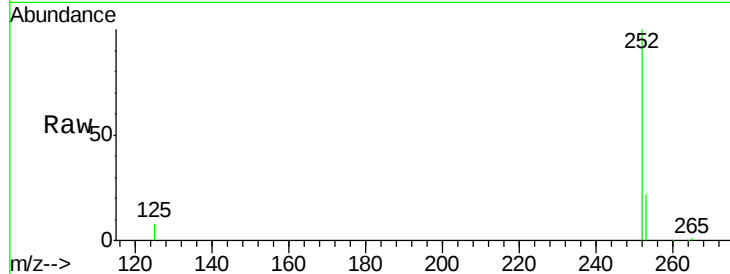
#21  
Benzo(b)fluoranthene  
Concen: 12.09 ng/ul m  
RT: 22.85 min Scan# 1485  
Delta R.T. -0.01 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

Instrument :  
BNA\_M  
ClientSampleId :  
JHSR1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 21.7  | 0.0        | 64.2  |
| 125     | 8.4   | 0.0        | 35.0  |

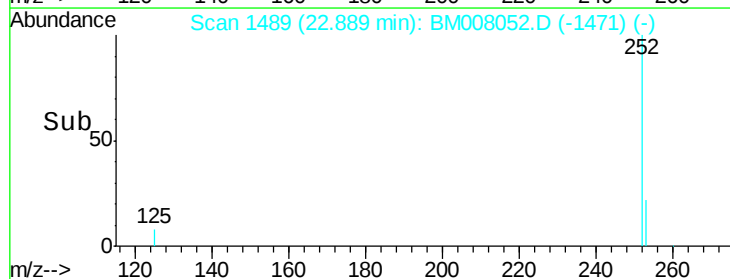
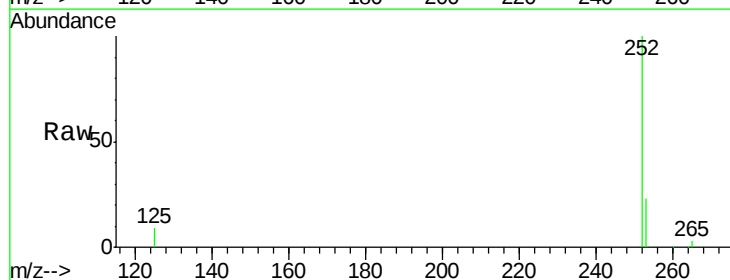
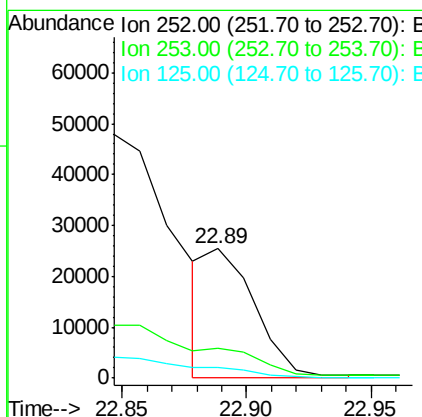
Manual Integrations  
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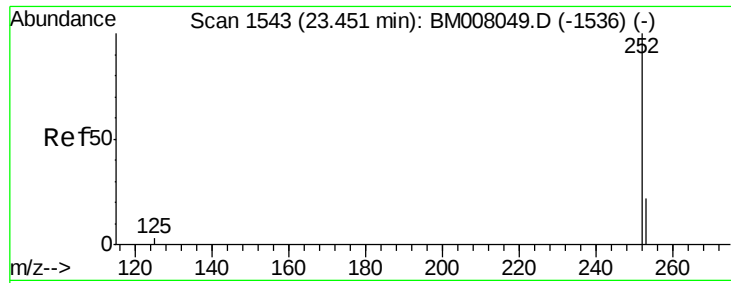
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#22  
Benzo(k)fluoranthene  
Concen: 3.65 ng/ul m  
RT: 22.89 min Scan# 1489  
Delta R.T. -0.01 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.0  | 24.5       | 36.7# |
| 125     | 8.5   | 13.7       | 20.5# |





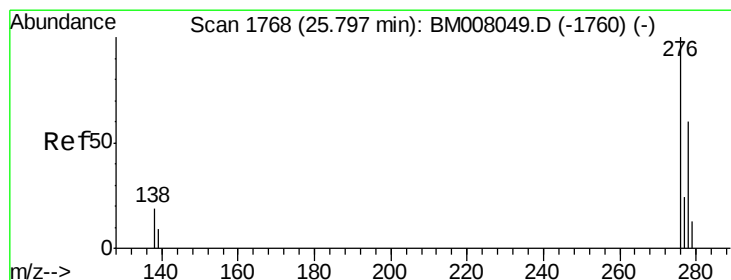
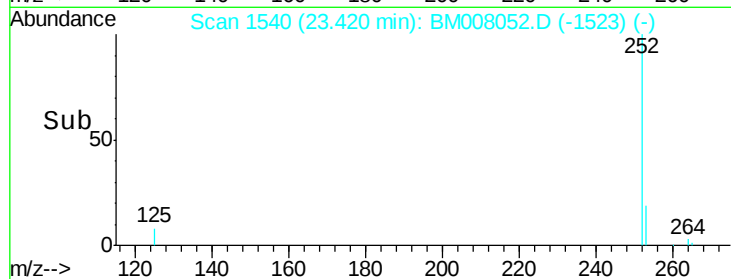
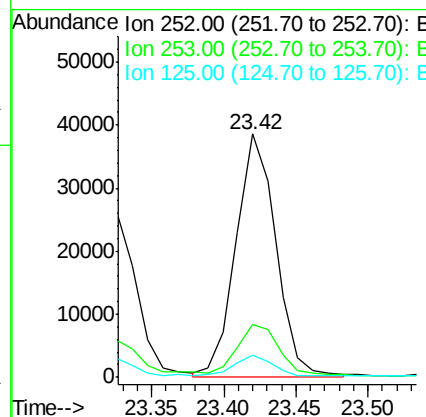
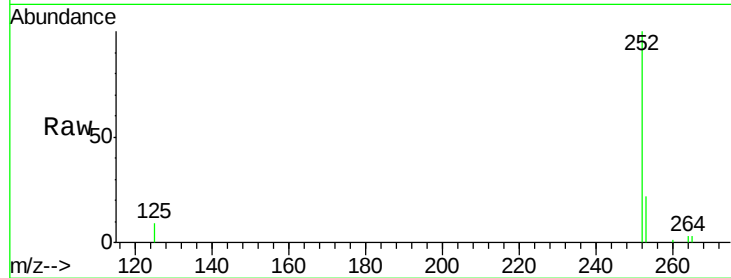
#23  
Benzo(a)pyrene  
Concen: 8.62 ng/ul m  
RT: 23.42 min Scan# 1540  
Delta R.T. -0.02 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

Instrument :  
BNA\_M  
ClientSampled :  
JHSR1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 28.5  | 42.7# |
| 125     | 8.9   | 18.1  | 27.1# |

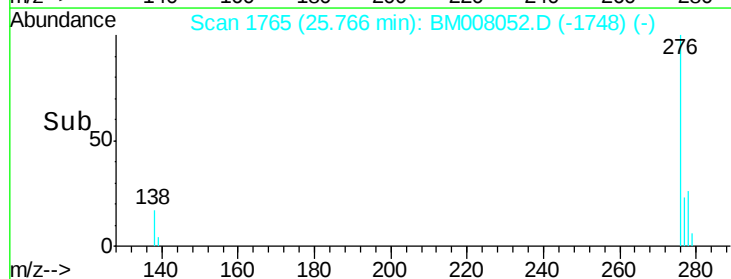
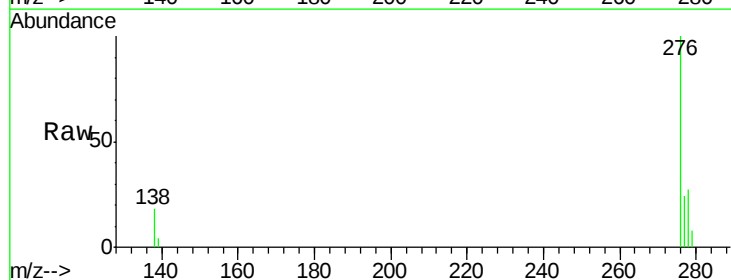
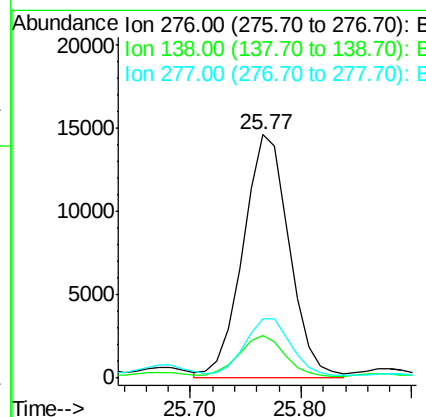
Manual Integrations  
APPROVED

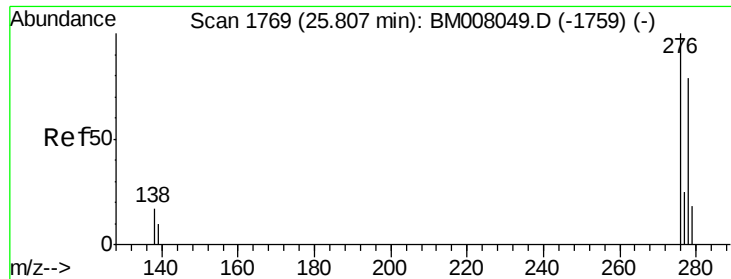
Umangi  
11/28/2016 5:28:32 PM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 4.00 ng/ul m  
RT: 25.77 min Scan# 1765  
Delta R.T. -0.02 min  
Lab File: BM008052.D  
Acq: 24 Nov 2016 02:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 2.7   | 19.1  | 28.7# |
| 277     | 4.7   | 19.6  | 29.4# |





#25

Dibenzo(a,h)anthracene

Concen: 1.65 ng/ul m

RT: 25.78 min Scan# 1766

Delta R.T. -0.02 min

Lab File: BM008052.D

Acq: 24 Nov 2016 02:01

Instrument :

BNA\_M

ClientSampleId :

JHSR1

Tot Ion:278 Resp: 14095

Ion Ratio Lower Upper

278 100

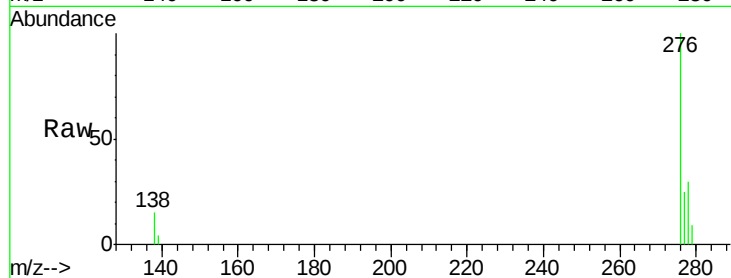
139 14.7 17.4 26.0#

279 29.2 25.9 38.9

Manual Integrations  
APPROVED

Umangi

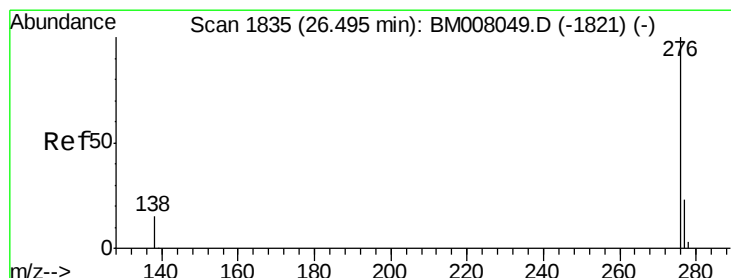
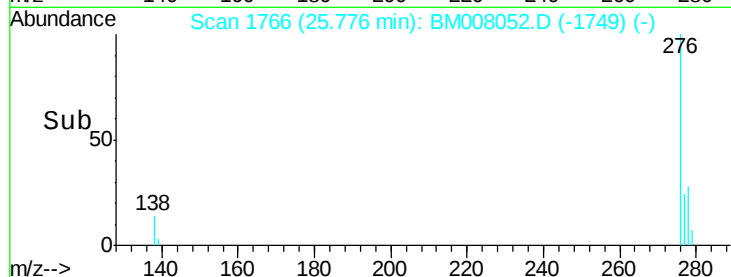
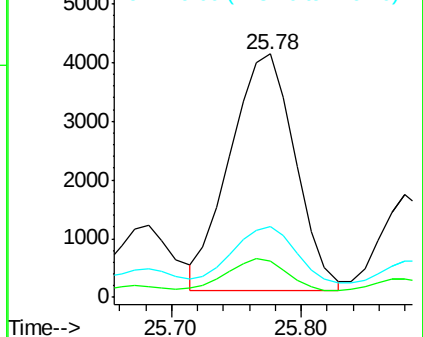
11/28/2016 5:28:32 PM



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#26

Benzo(g,h,i)perylene

Concen: 3.33 ng/ul m

RT: 26.45 min Scan# 1831

Delta R.T. -0.02 min

Lab File: BM008052.D

Acq: 24 Nov 2016 02:01

Tgt Ion:276 Resp: 31575

Ion Ratio Lower Upper

276 100

277 24.2 21.8 32.8

138 17.4 20.5 30.7#

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

