

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120216\  
 Data File : BM008153.D  
 Acq On : 02 Dec 2016 13:16  
 Operator : UM/SJ  
 Sample : H5730-06  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WH0

Manual Integrations  
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Quant Time: Dec 02 16:09:18 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 Dec 02 15:28:31 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.71  | 152  | 641      | 0.40 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.48 | 136  | 2195     | 0.40 | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.33 | 164  | 1263     | 0.40 | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.07 | 188  | 2224m    | 0.40 | ng/ul  | -0.03    |
| 16) Chrysene-d12            | 21.28 | 240  | 2009     | 0.40 | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.51 | 264  | 2060     | 0.40 | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |      |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.09 | 152  | 546      | 0.18 | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.12 | 212  | 1247m    | 0.20 | ng/ul  | -0.02    |
| Target Compounds            |       |      |          |      |        | Qvalue   |
| 7) Acenaphthylene           | 14.04 | 152  | 519      | 0.09 | ng/ul# | 67       |
| 8) Acenaphthene             | 14.38 | 153  | 188      | 0.04 | ng/ul# | 84       |
| 9) Fluorene                 | 15.39 | 166  | 199      | 0.04 | ng/ul# | 81       |
| 12) Phenanthrene            | 17.12 | 178  | 3003     | 0.43 | ng/ul  | 93       |
| 13) Anthracene              | 17.21 | 178  | 890m     | 0.14 | ng/ul  |          |
| 15) Fluoranthene            | 19.14 | 202  | 6244     | 0.70 | ng/ul  | 97       |
| 17) Pyrene                  | 19.51 | 202  | 6310     | 0.90 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.26 | 228  | 2628     | 0.43 | ng/ul# | 88       |
| 19) Chrysene                | 21.31 | 228  | 2836     | 0.37 | ng/ul# | 89       |
| 21) Benzo(b)fluoranthene    | 22.85 | 252  | 3491m    | 0.42 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.87 | 252  | 1452m    | 0.17 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.41 | 252  | 2708     | 0.35 | ng/ul  | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.77 | 276  | 1868     | 0.20 | ng/ul# | 92       |
| 26) Benzo(g,h,i)perylene    | 26.45 | 276  | 1741     | 0.21 | ng/ul# | 90       |

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

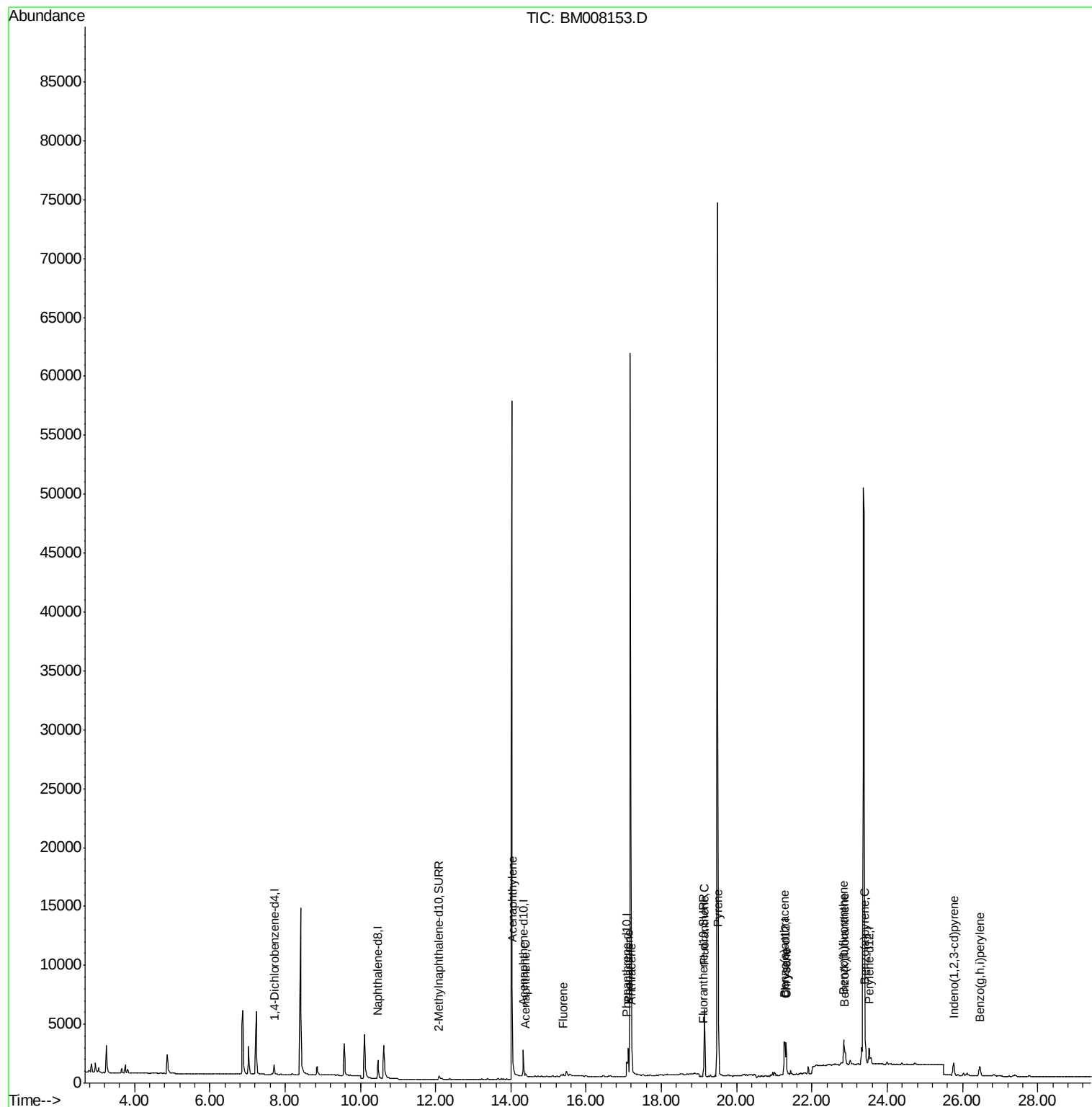
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120216\  
Data File : BM008153.D  
Acq On : 02 Dec 2016 13:16  
Operator : UM/SJ  
Sample : H5730-06  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

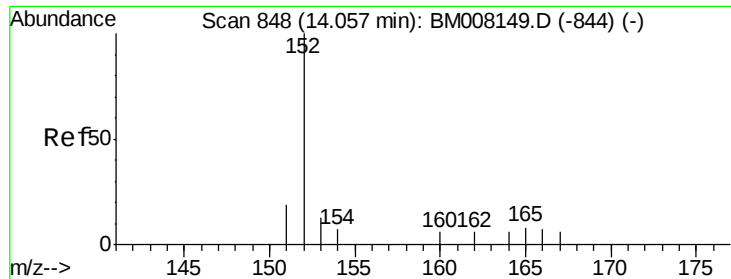
Instrument :  
BNA\_M  
ClientSampleId :  
A4WH0

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Quant Time: Dec 02 16:09:18 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 Dec 02 15:28:31 2016  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.09 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.02 min

Lab File: BM008153.D

Acq: 02 Dec 2016 13:16

Instrument :

BNA\_M

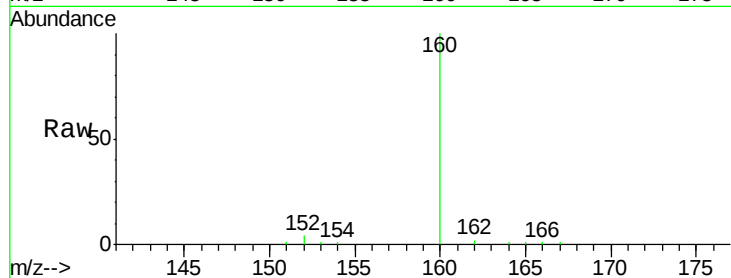
ClientSampleId :

A4WH0

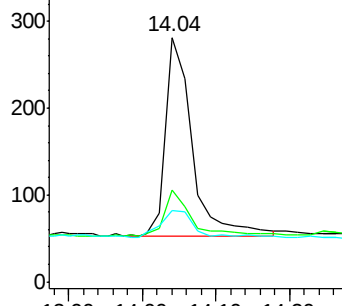
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 519   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 37.4  | 17.1  | 25.7# |
| 153       | 29.2  | 12.8  | 19.2# |

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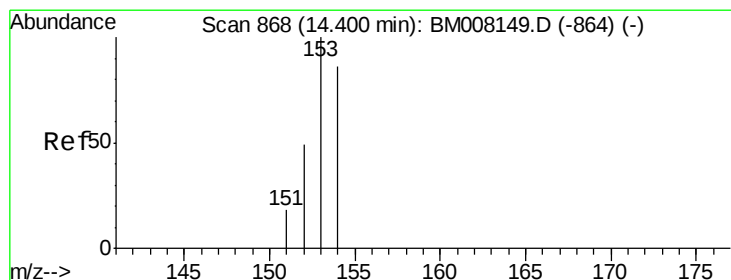
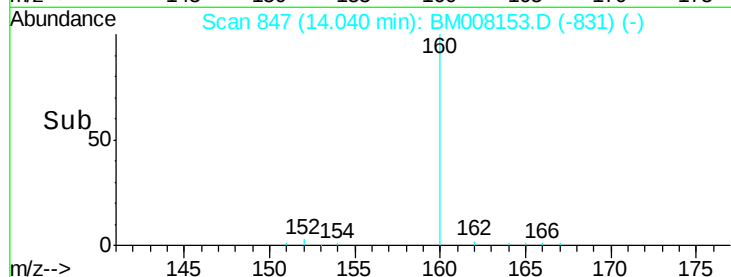
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



Time--> 13.90 14.00 14.10 14.20



#8

Acenaphthene

Concen: 0.04 ng/ul

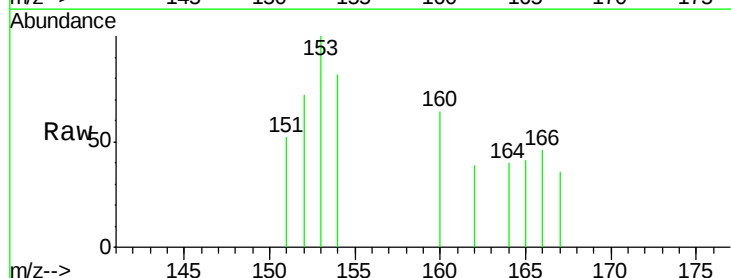
RT: 14.38 min Scan# 867

Delta R.T. -0.02 min

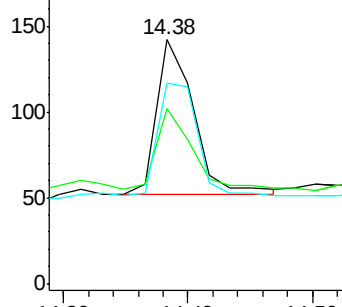
Lab File: BM008153.D

Acq: 02 Dec 2016 13:16

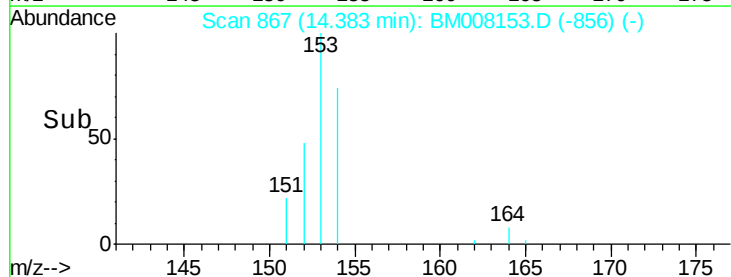
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 188   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 71.8  | 40.3  | 60.5# |
| 154       | 82.4  | 71.4  | 107.2 |

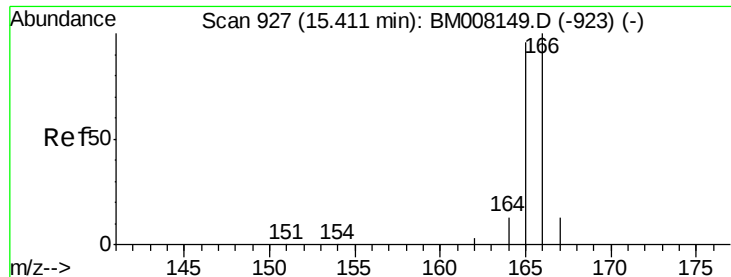


Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



Time--> 14.30 14.40 14.50





#9

Fluorene

Concen: 0.04 ng/ul

RT: 15.39 min Scan# 926

Delta R.T. -0.02 min

Lab File: BM008153.D

Acq: 02 Dec 2016 13:16

Instrument :

BNA\_M

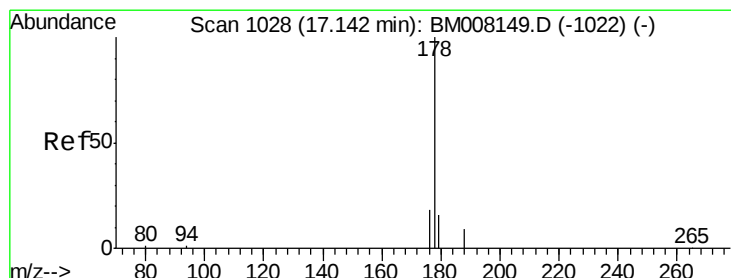
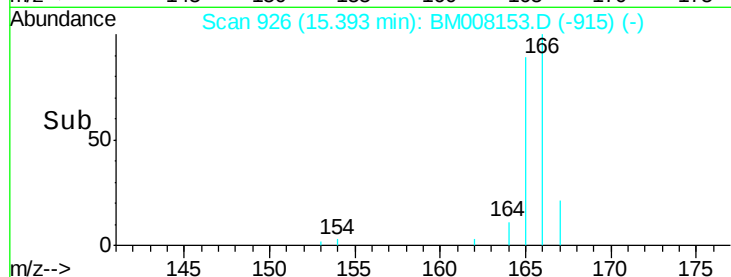
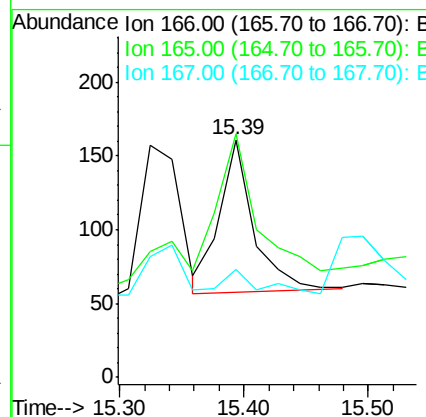
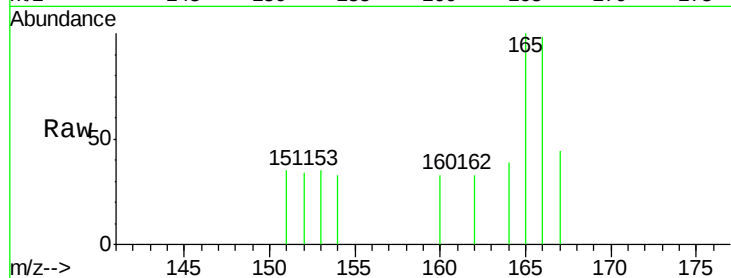
ClientSampled :

A4WH0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 199   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 102.5 | 73.4  | 110.2 |
| 167       | 45.3  | 14.6  | 22.0# |

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#12

Phenanthrene

Concen: 0.43 ng/ul

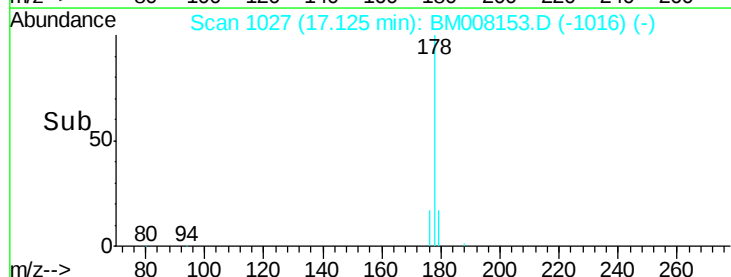
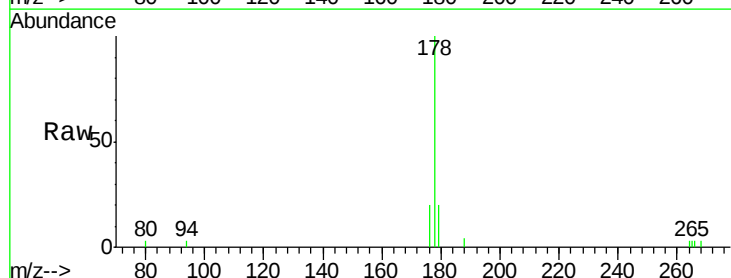
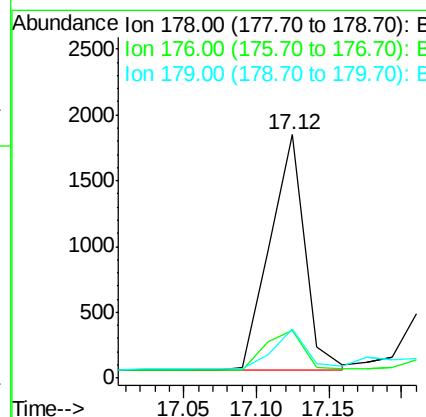
RT: 17.12 min Scan# 1027

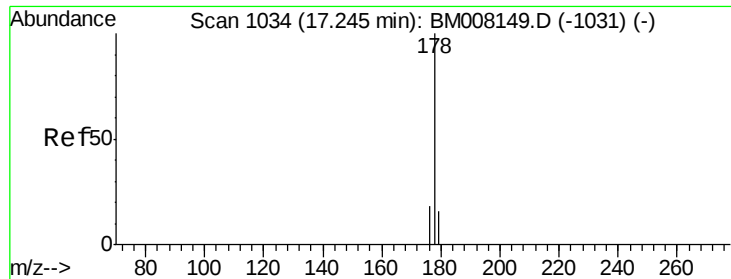
Delta R.T. -0.02 min

Lab File: BM008153.D

Acq: 02 Dec 2016 13:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 3003 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.5  | 18.4  | 27.6 |
| 179       | 20.0  | 13.6  | 20.4 |





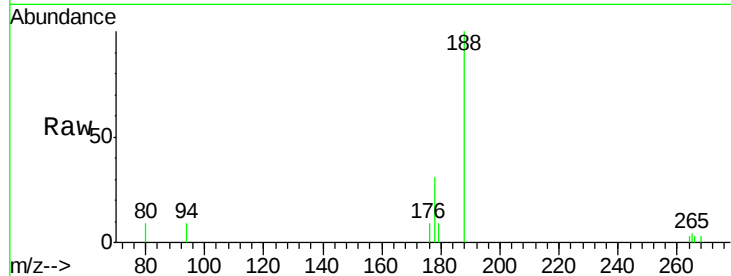
#13  
 Anthracene  
 Concen: 0.14 ng/ul m  
 RT: 17.21 min Scan# 1032  
 Delta R.T. -0.03 min  
 Lab File: BM008153.D  
 Acq: 02 Dec 2016 13:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WH0

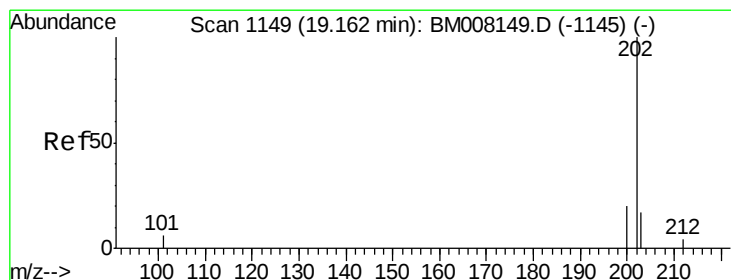
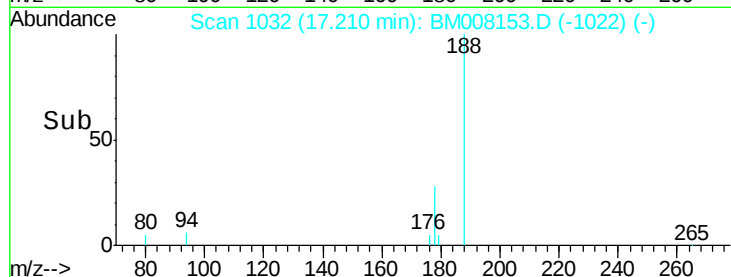
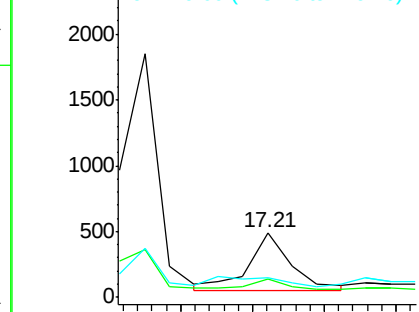
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 27.7  | 18.1  | 27.1# |
| 179     | 30.4  | 14.7  | 22.1# |

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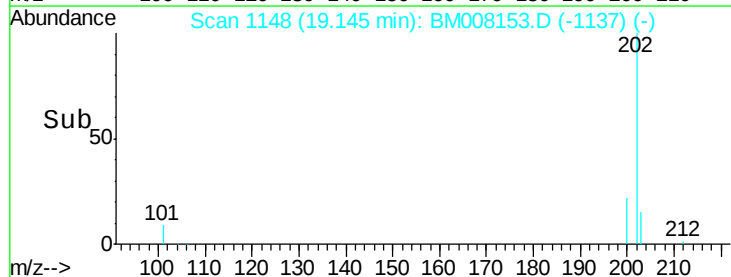
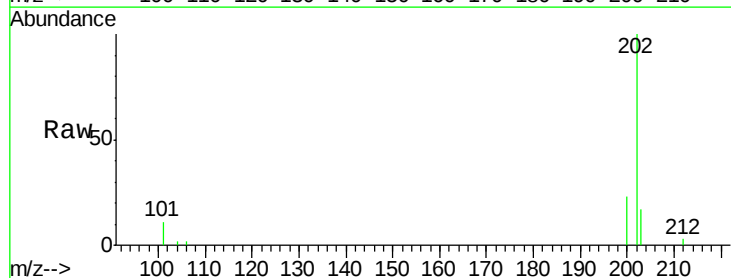
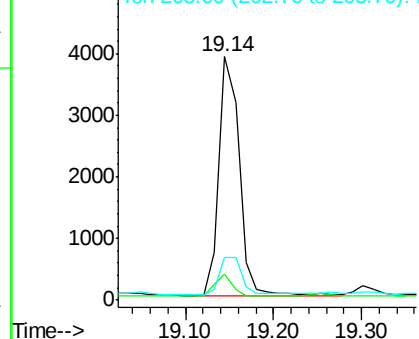
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

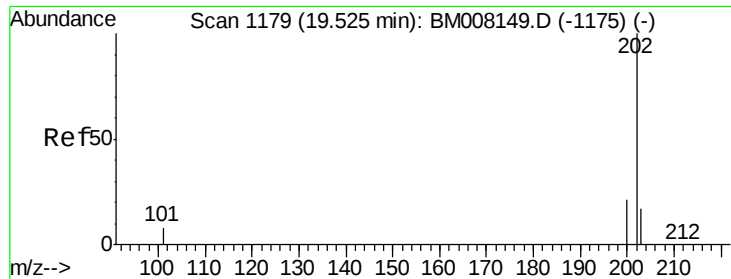


#15  
 Fluoranthene  
 Concen: 0.70 ng/ul  
 RT: 19.14 min Scan# 1148  
 Delta R.T. -0.02 min  
 Lab File: BM008153.D  
 Acq: 02 Dec 2016 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.5  | 0.0   | 30.3  |
| 203     | 17.4  | 0.0   | 39.5  |

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





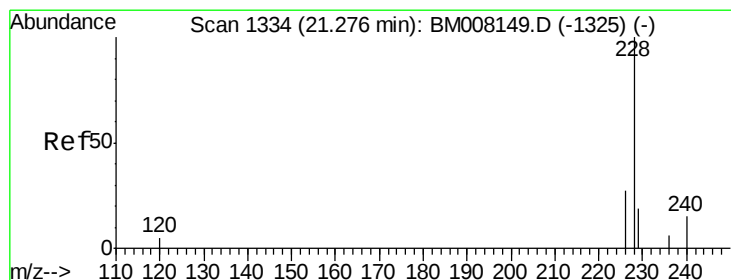
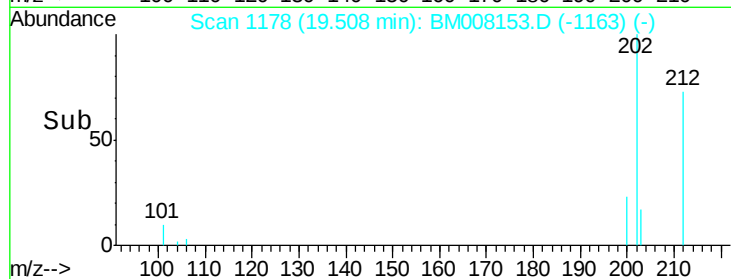
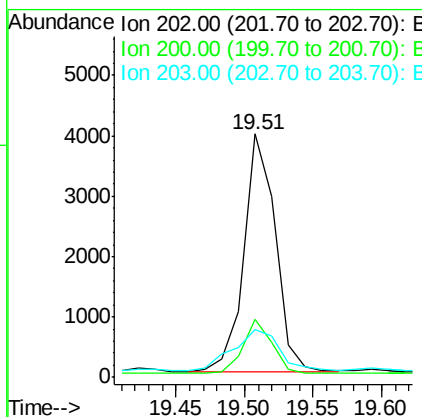
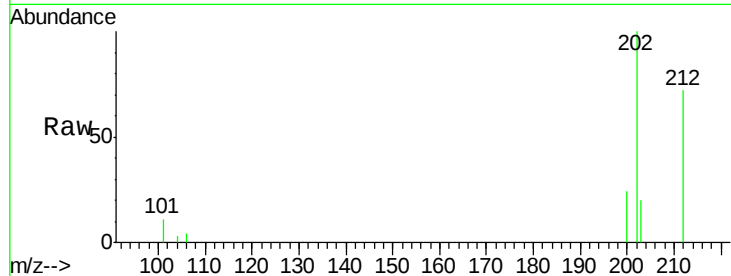
#17  
 Pyrene  
 Concen: 0.90 ng/u1  
 RT: 19.51 min Scan# 1178  
 Delta R.T. -0.02 min  
 Lab File: BM008153.D  
 Acq: 02 Dec 2016 13:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WH0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 23.7  | 18.2  | 27.4  |
| 203     | 19.6  | 15.6  | 23.4  |

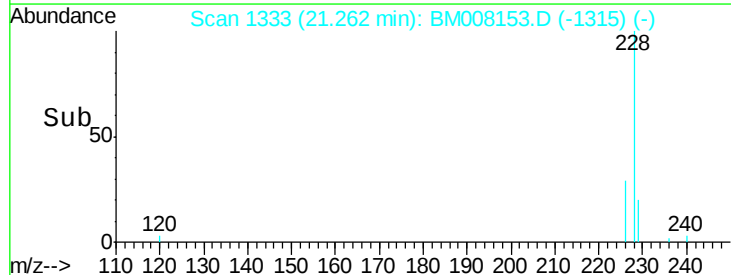
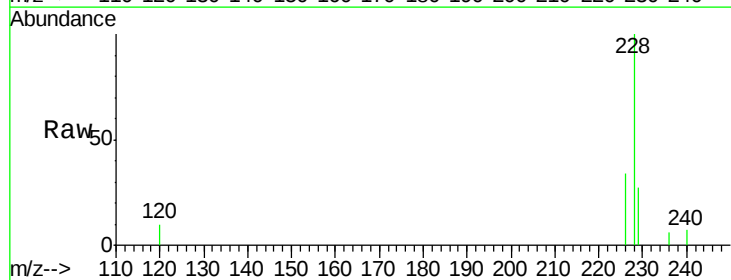
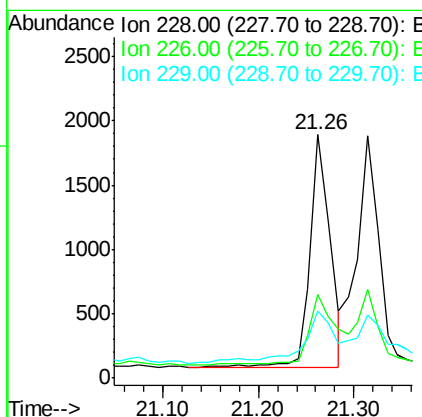
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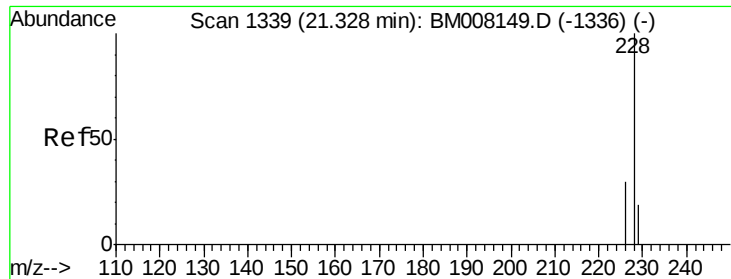
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#18  
 Benzo(a)anthracene  
 Concen: 0.43 ng/u1  
 RT: 21.26 min Scan# 1333  
 Delta R.T. -0.01 min  
 Lab File: BM008153.D  
 Acq: 02 Dec 2016 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 34.2  | 22.8  | 34.2  |
| 229     | 27.4  | 17.0  | 25.6  |





#19

Chrysene

Concen: 0.37 ng/ul

RT: 21.31 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BM008153.D

Acq: 02 Dec 2016 13:16

Instrument :

BNA\_M

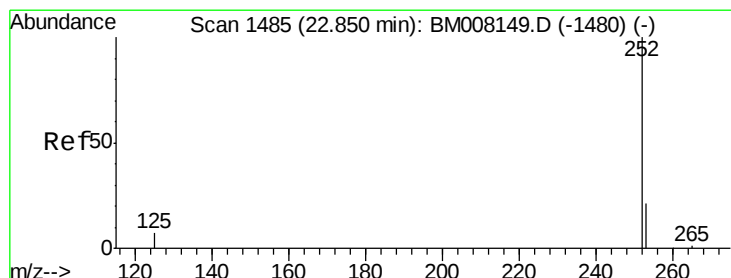
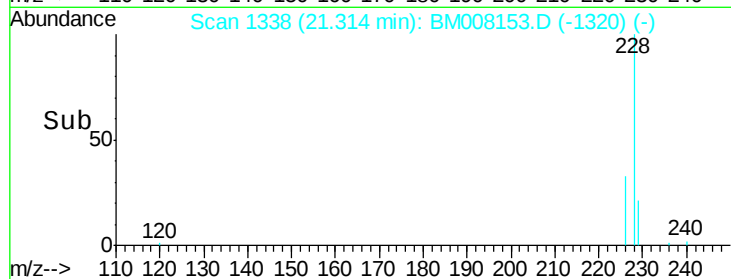
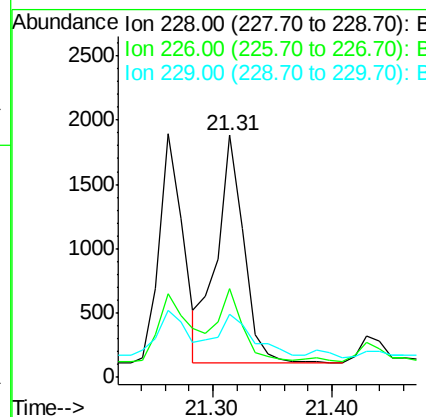
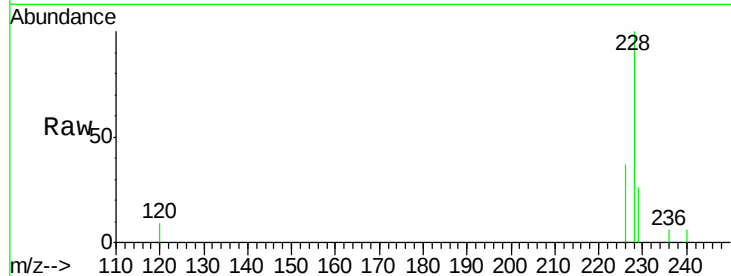
ClientSampleId :

A4WH0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 2836  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 36.6  | 23.4  | 35.0# |
| 229       | 26.1  | 17.7  | 26.5  |

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#21

Benzo(b)fluoranthene

Concen: 0.42 ng/ul m

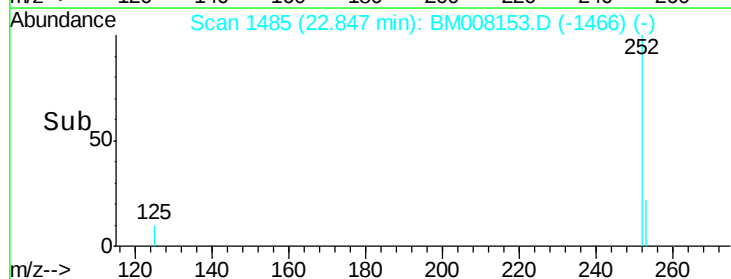
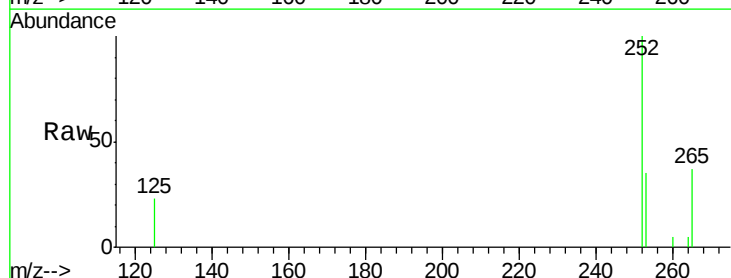
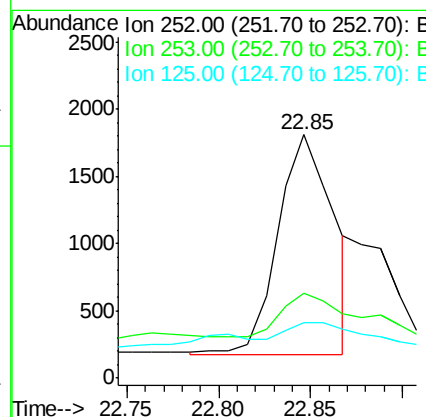
RT: 22.85 min Scan# 1485

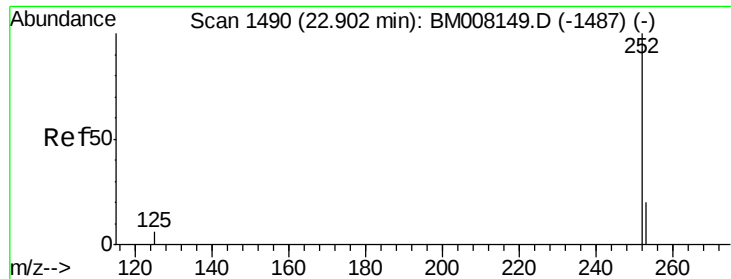
Delta R.T. -0.00 min

Lab File: BM008153.D

Acq: 02 Dec 2016 13:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 3491 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 34.8  | 0.0   | 64.2 |
| 125       | 22.6  | 0.0   | 35.0 |





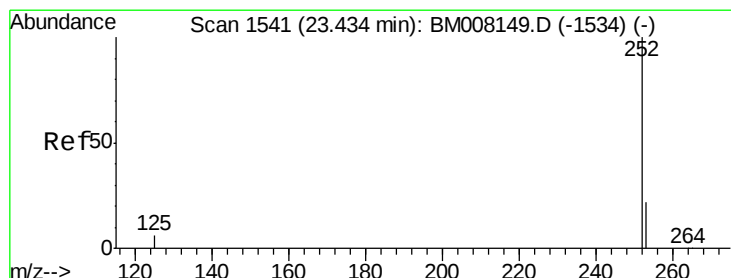
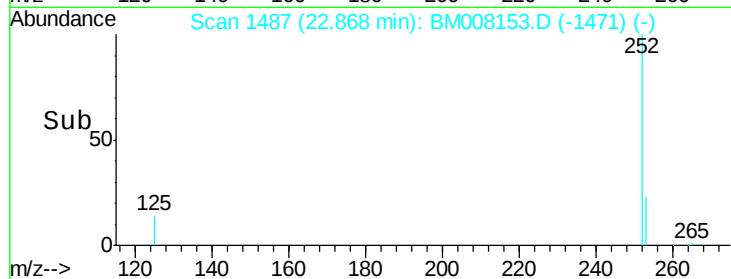
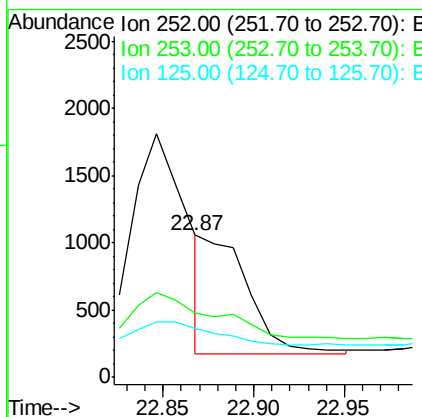
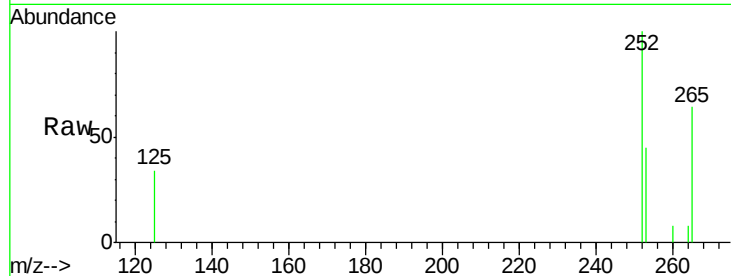
#22  
Benzo(k)fluoranthene  
Concen: 0.17 ng/ul m  
RT: 22.87 min Scan# 1487  
Delta R.T. -0.03 min  
Lab File: BM008153.D  
Acq: 02 Dec 2016 13:16

Instrument :  
BNA\_M  
ClientSampleId :  
A4WH0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 45.2  | 24.5  | 36.7# |
| 125     | 34.3  | 13.7  | 20.5# |

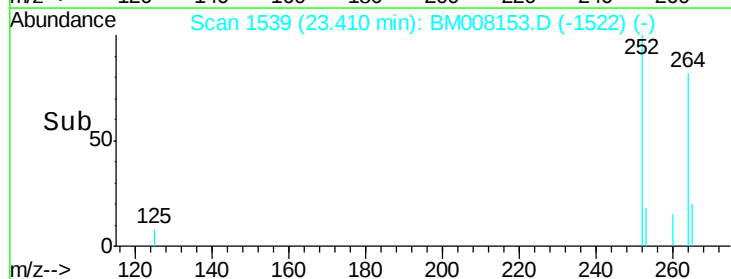
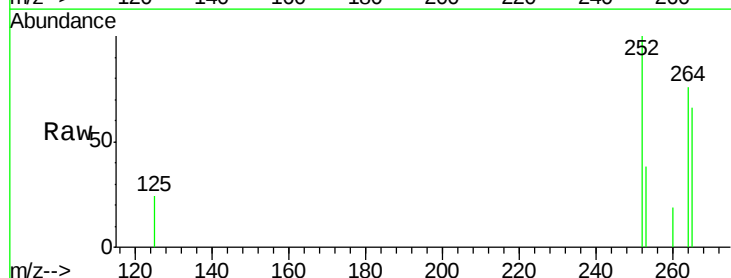
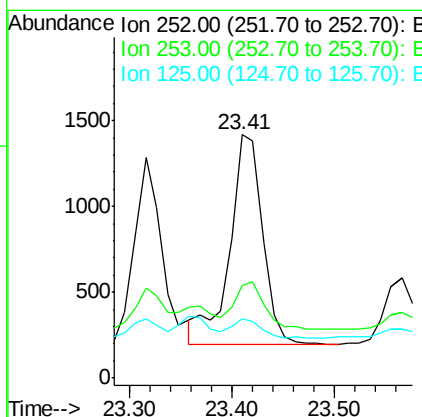
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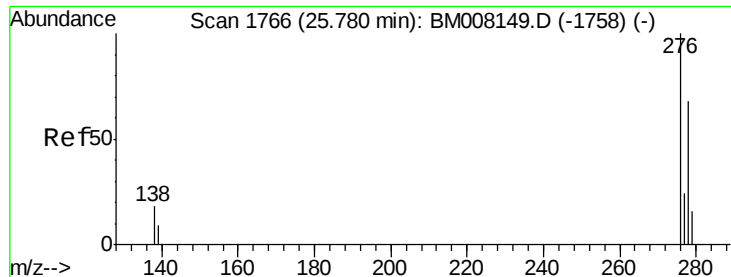
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#23  
Benzo(a)pyrene  
Concen: 0.35 ng/ul  
RT: 23.41 min Scan# 1539  
Delta R.T. -0.02 min  
Lab File: BM008153.D  
Acq: 02 Dec 2016 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.3  | 28.5  | 42.7  |
| 125     | 24.5  | 18.1  | 27.1  |





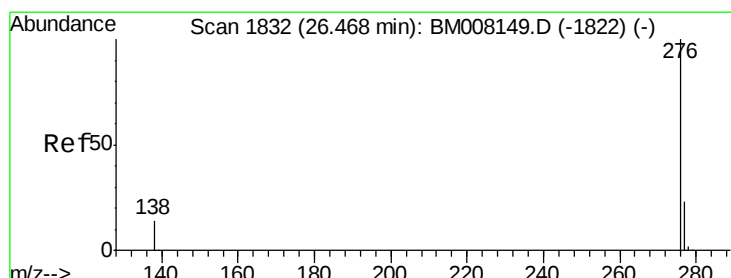
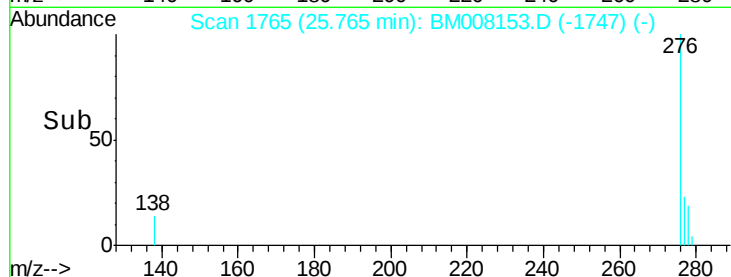
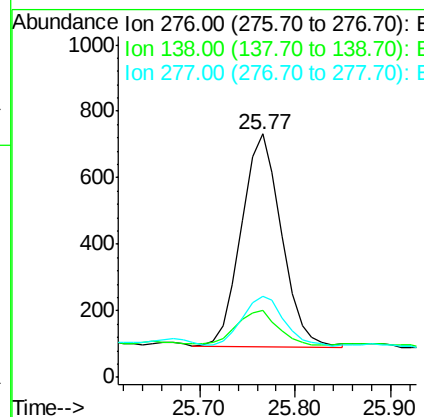
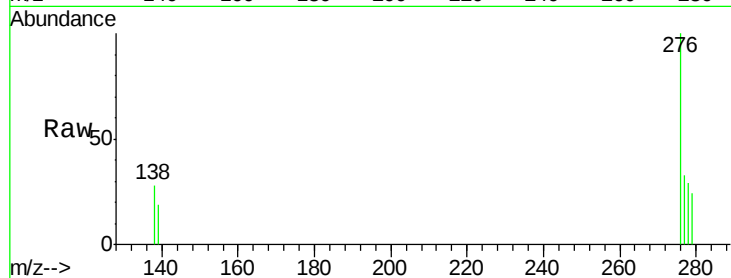
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.20 ng/ul  
 RT: 25.77 min Scan# 1765  
 Delta R.T. -0.01 min  
 Lab File: BM008153.D  
 Acq: 02 Dec 2016 13:16

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WH0

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 16.9  | 19.1       | 28.7#      |
| 277     | 24.0  | 19.6       | 29.4       |

Manual Integrations  
 APPROVED

sohil  
 12/5/2016 11:17:23 AM



#26  
 Benzo(g,h,i)perylene  
 Concen: 0.21 ng/ul  
 RT: 26.45 min Scan# 1831  
 Delta R.T. -0.01 min  
 Lab File: BM008153.D  
 Acq: 02 Dec 2016 13:16

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 277     | 34.5  | 21.8       | 32.8#      |
| 138     | 28.5  | 20.5       | 30.7       |

