

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM040320\  
 Data File : BM025902.D  
 Acq On : 02 Apr 2020 15:11  
 Operator : CG/JU  
 Sample : L1516-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBD22

Manual Integrations  
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 4/3/2020 8:05:17 AM

Quant Time: Apr 02 15:43:18 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM040220.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 02 10:49:07 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 2278     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.33 | 136  | 9980     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.20 | 164  | 7121     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.95 | 188  | 16983m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.14 | 240  | 19799    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.29 | 264  | 20387    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.93 | 152  | 4107     | 0.23   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.98 | 212  | 12213    | 0.23   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 5) 2-Methylnaphthalene      | 12.00 | 142  | 1213     | 0.059  | ng/ul  | 95       |
| 7) Acenaphthylene           | 13.92 | 152  | 3026     | 0.099  | ng/ul  | 98       |
| 8) Acenaphthene             | 14.26 | 153  | 116064   | 4.594  | ng/ul  | 99       |
| 9) Fluorene                 | 15.26 | 166  | 57478    | 1.834  | ng/ul  | 98       |
| 12) Phenanthrene            | 16.99 | 178  | 564012   | 10.542 | ng/ul  | 98       |
| 13) Anthracene              | 17.08 | 178  | 73979    | 1.565  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.01 | 202  | 946176   | 14.312 | ng/ul  | 99       |
| 17) Pyrene                  | 19.37 | 202  | 667624   | 9.415  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.13 | 228  | 82085    | 1.160  | ng/ul  | 100      |
| 19) Chrysene                | 21.18 | 228  | 116988   | 1.514  | ng/ul  | 100      |
| 21) Benzo(b)fluoranthene    | 22.66 | 252  | 14295m   | 0.191  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.70 | 252  | 5587m    | 0.069  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.20 | 252  | 5149     | 0.077  | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.41 | 276  | 2018     | 0.022  | ng/ul# | 63       |
| 26) Benzo(g,h,i)perylene    | 26.06 | 276  | 1521     | 0.020  | ng/ul# | 71       |

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

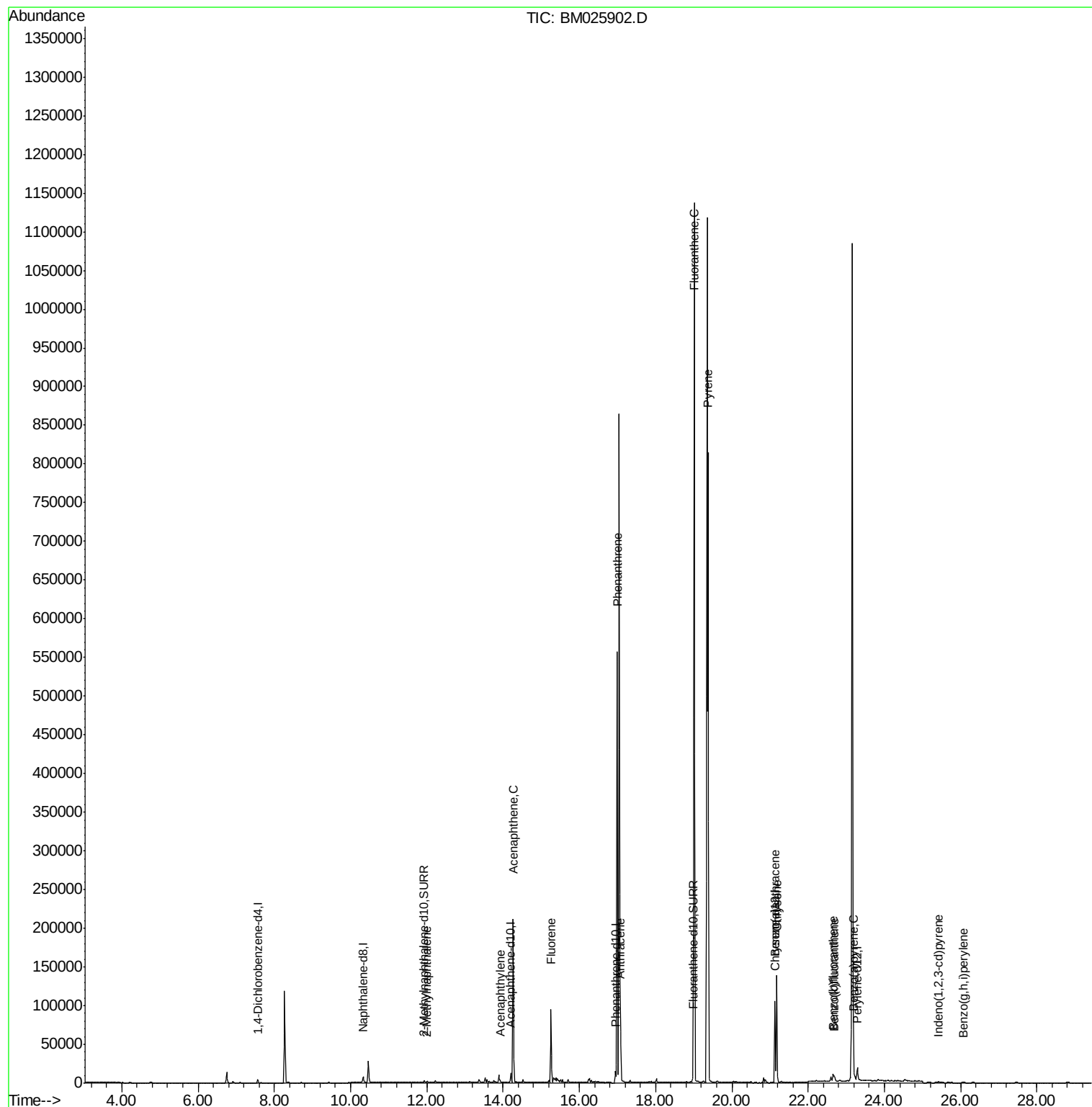
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM040320\  
Data File : BM025902.D  
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Operator : CG/JU  
Sample : L1516-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

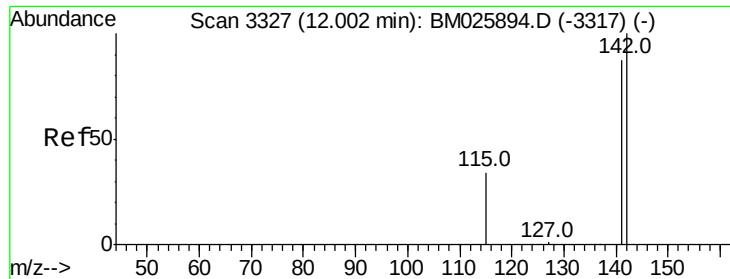
Instrument :  
BNA\_M  
ClientSampleId :  
DBD22

Quant Time: Apr 02 15:43:18 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM040220.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Apr 02 10:49:07 2020  
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#5

2-Methylnaphthalene

Concen: 0.059 ng/ul

RT: 12.00 min Scan# 3327

Delta R.T. 0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

Instrument :

BNA\_M

ClientSampleId :

DBD22

Tot Ion:142 Resp: 1213

Ion Ratio Lower Upper

142 100

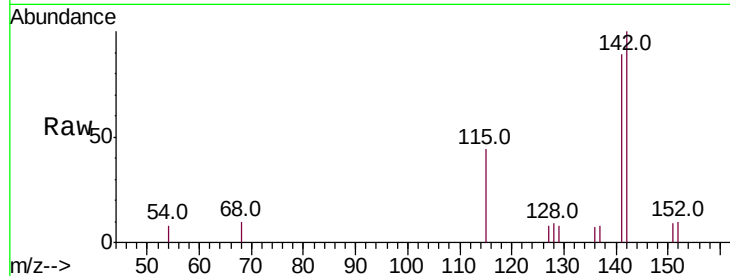
141 90.6 69.0 103.6

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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.00

800

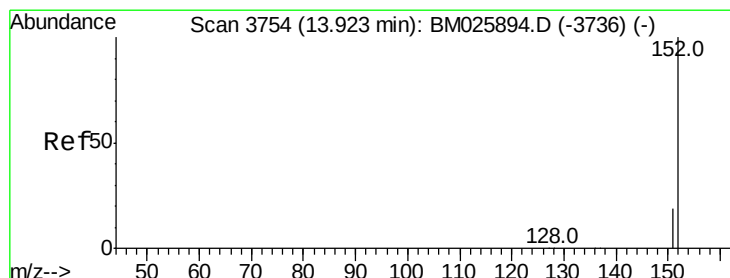
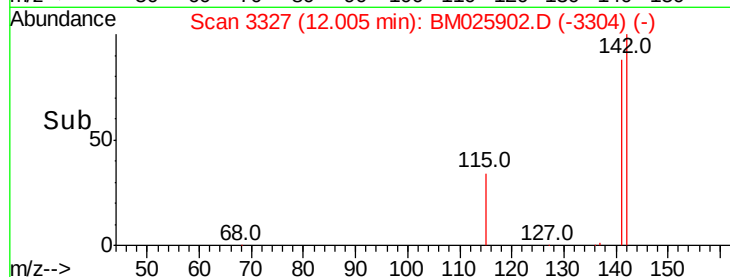
600

400

200

0

Time-->



#7

Acenaphthylene

Concen: 0.099 ng/ul

RT: 13.92 min Scan# 3753

Delta R.T. -0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

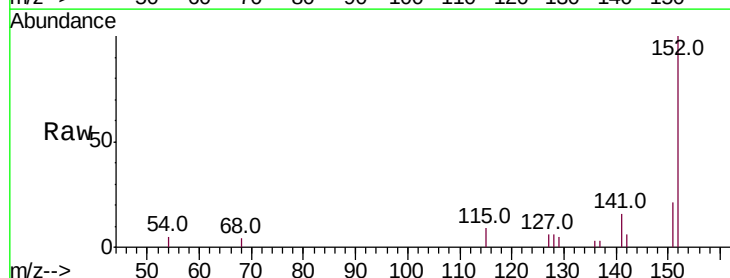
Tgt Ion:152 Resp: 3026

Ion Ratio Lower Upper

152 100

151 20.9 16.1 24.1

153 0.0 0.0 0.0



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

13.92

2500

2000

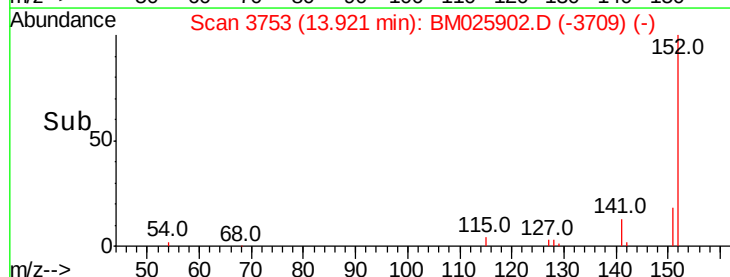
1500

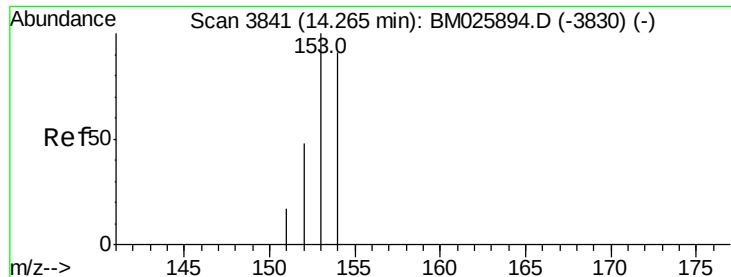
1000

500

0

Time-->





#8

Acenaphthene

Concen: 4.594 ng/ul

RT: 14.26 min Scan# 3840

Delta R.T. -0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

Instrument :

BNA\_M

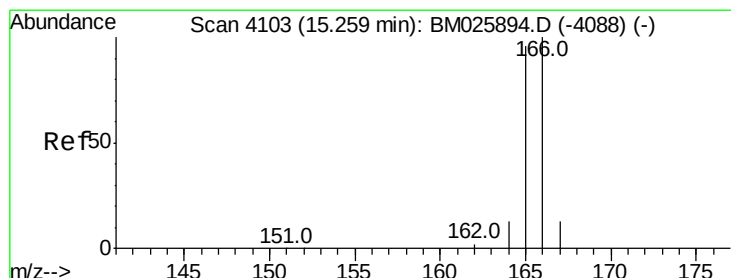
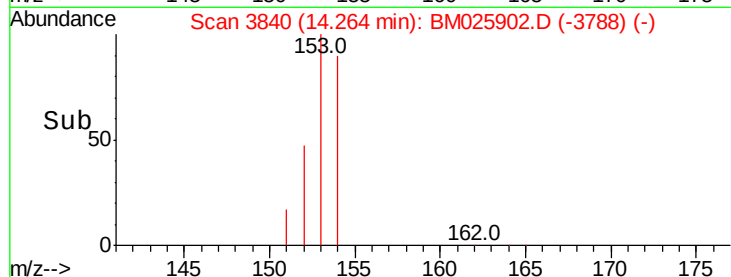
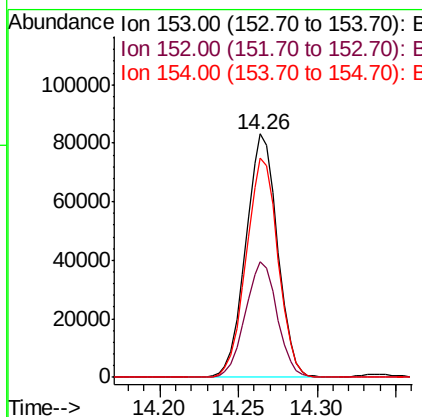
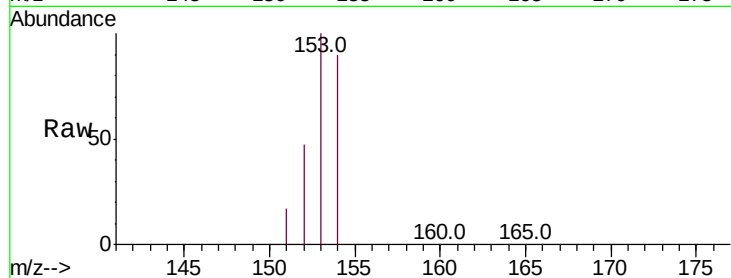
ClientSampleId :

DBD22

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 153   | Resp: | 116064 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 47.4  | 38.8  | 58.2   |
| 154       | 90.3  | 71.9  | 107.9  |

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#9

Fluorene

Concen: 1.834 ng/ul

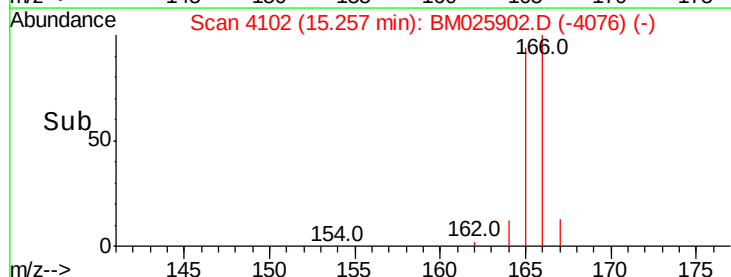
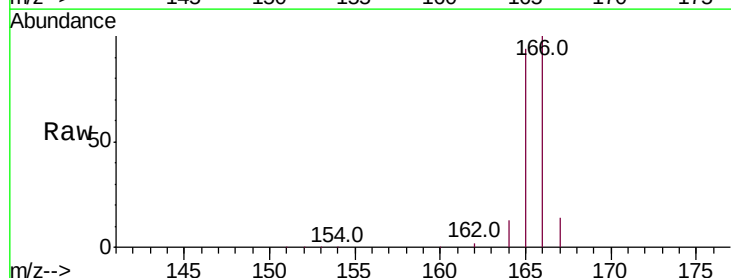
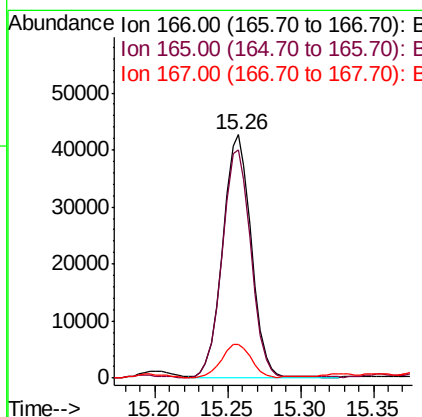
RT: 15.26 min Scan# 4102

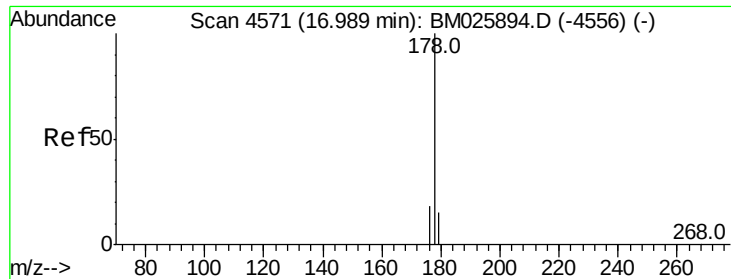
Delta R.T. -0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 57478 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 93.9  | 76.6  | 115.0 |
| 167       | 13.9  | 11.4  | 17.0  |





#12

Phenanthrene

Concen: 10.542 ng/ul

RT: 16.99 min Scan# 4571

Delta R.T. 0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

Instrument :

BNA\_M

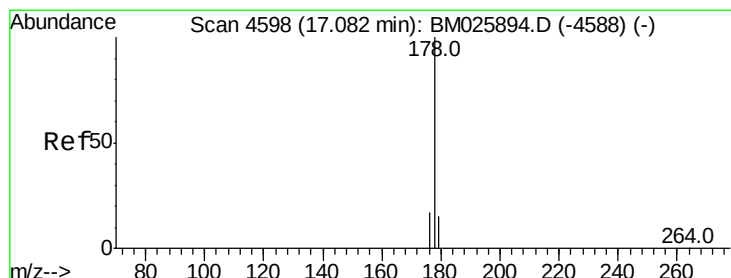
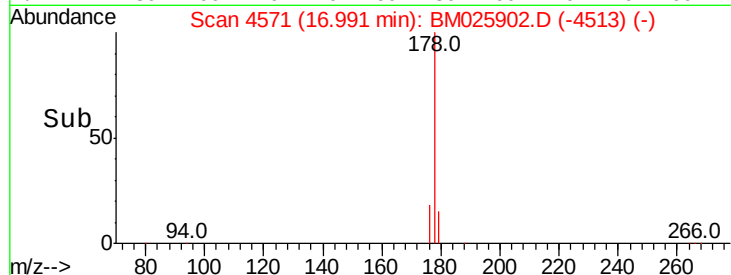
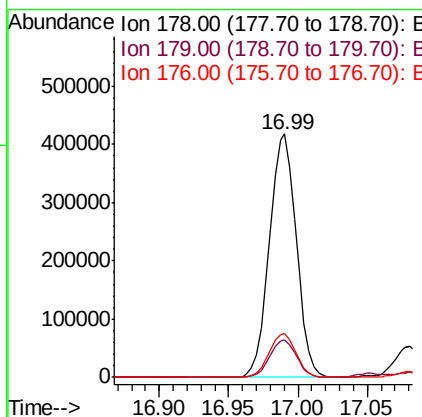
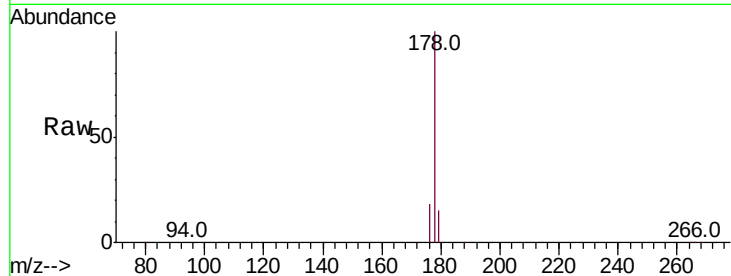
ClientSampleId :

DBD22

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 564012    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.4  | 12.8 19.2 |
| 176         | 18.0  | 15.1 22.7 |

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#13

Anthracene

Concen: 1.565 ng/ul

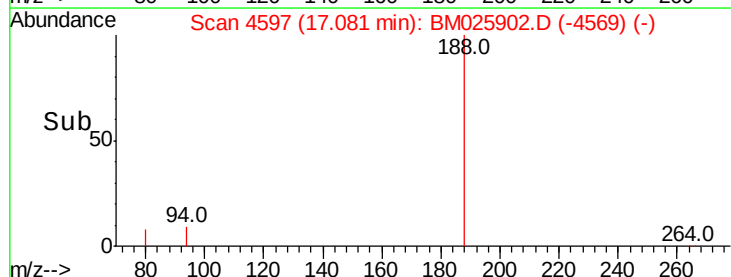
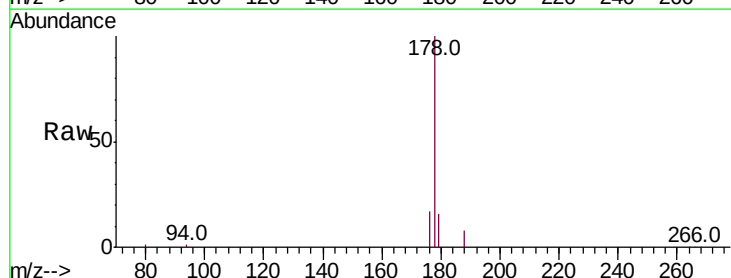
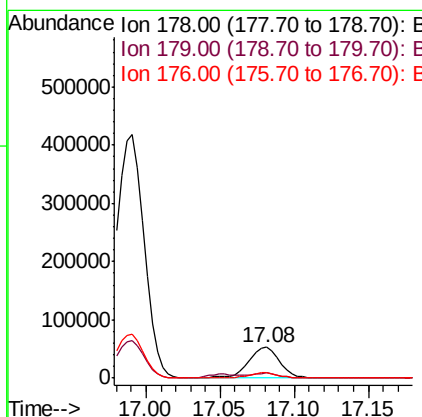
RT: 17.08 min Scan# 4597

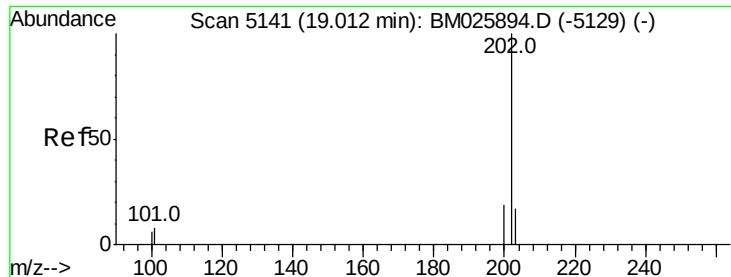
Delta R.T. -0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 73979     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 16.0  | 12.8 19.2 |
| 176         | 17.3  | 14.5 21.7 |





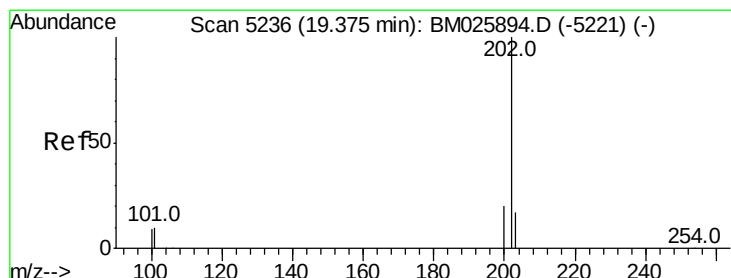
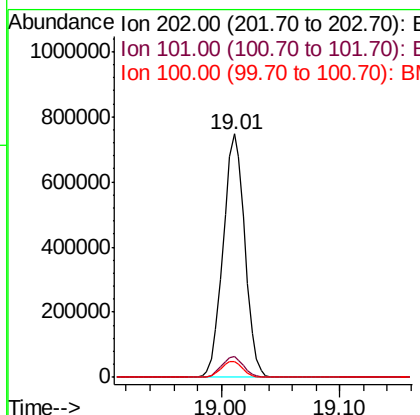
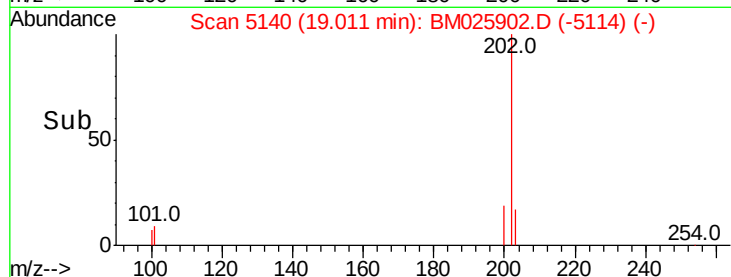
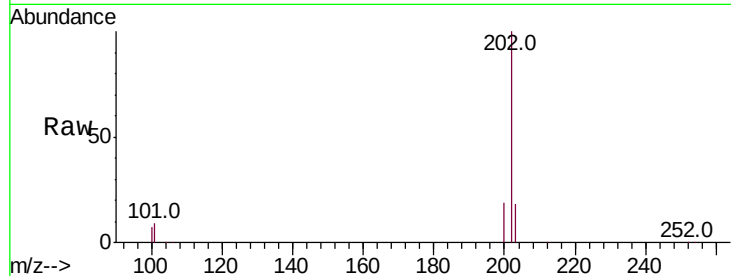
#15  
Fluoranthene  
Concen: 14.312 ng/ul  
RT: 19.01 min Scan# 5140  
Delta R.T. -0.00 min  
Lab File: BM025902.D  
Acq: 02 Apr 2020 15:11

Instrument :  
BNA\_M  
ClientSampleId :  
DBD22

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.6   | 0.0        | 28.6  |
| 100     | 6.6   | 0.0        | 27.0  |

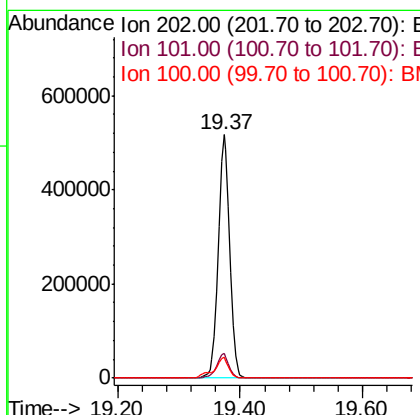
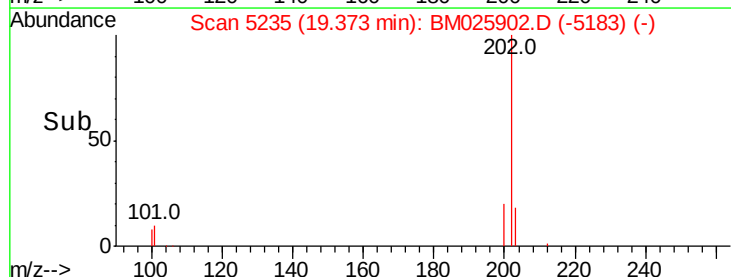
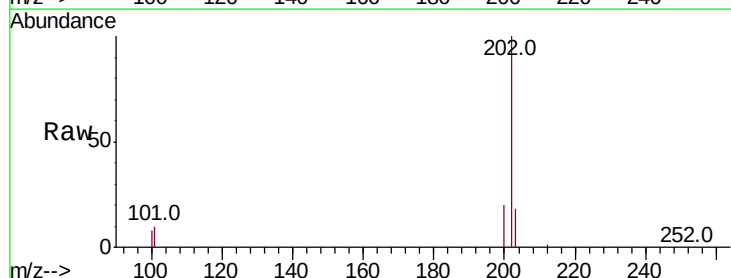
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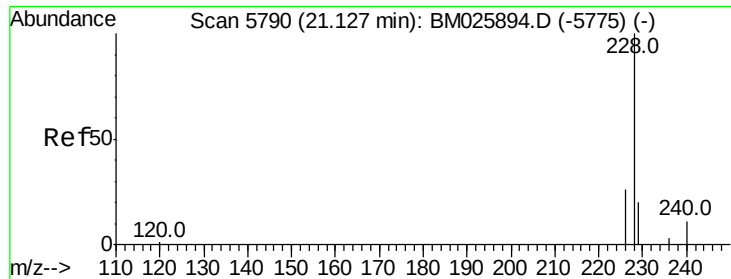
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#17  
Pyrene  
Concen: 9.415 ng/ul  
RT: 19.37 min Scan# 5235  
Delta R.T. -0.00 min  
Lab File: BM025902.D  
Acq: 02 Apr 2020 15:11

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.3  | 7.5        | 11.3  |
| 100     | 8.4   | 6.3        | 9.5   |





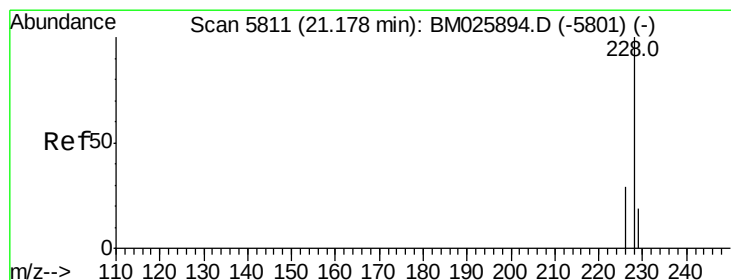
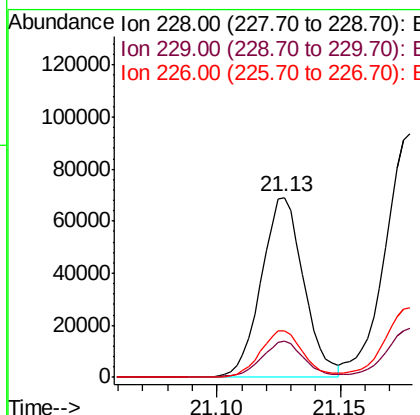
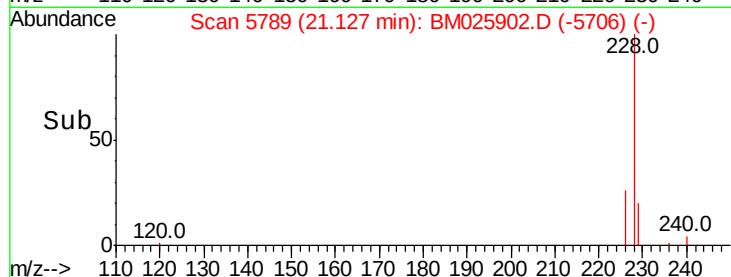
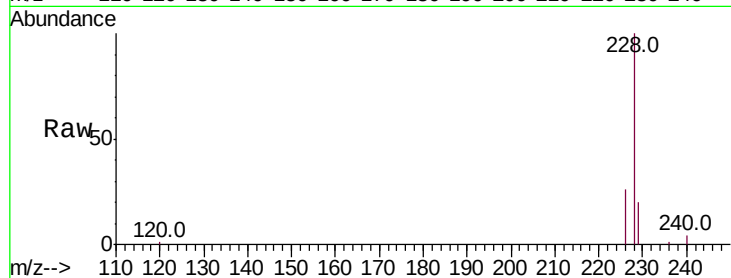
#18  
Benzo(a)anthracene  
Concen: 1.160 ng/ul  
RT: 21.13 min Scan# 5789  
Delta R.T. -0.00 min  
Lab File: BM025902.D  
Acq: 02 Apr 2020 15:11

Instrument :  
BNA\_M  
ClientSampleId :  
DBD22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 19.9  | 15.8  | 23.8  |
| 226     | 25.8  | 20.9  | 31.3  |

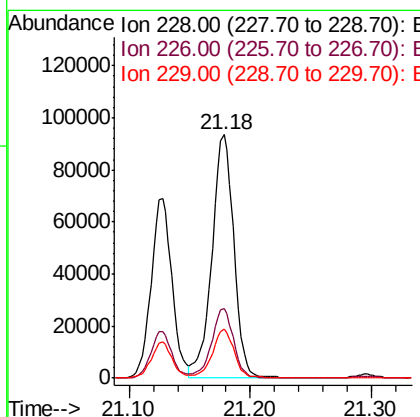
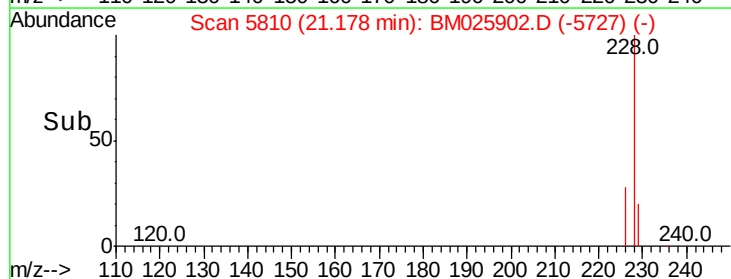
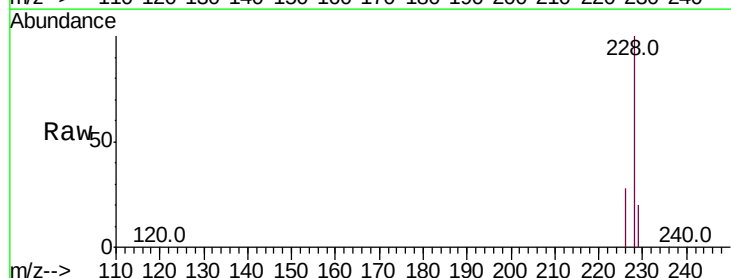
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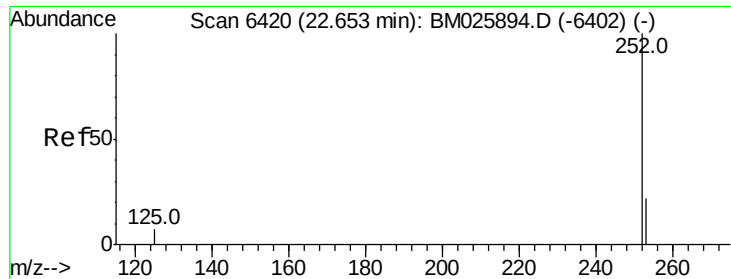
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#19  
Chrysene  
Concen: 1.514 ng/ul  
RT: 21.18 min Scan# 5810  
Delta R.T. -0.00 min  
Lab File: BM025902.D  
Acq: 02 Apr 2020 15:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 22.9  | 34.3  |
| 229     | 19.9  | 15.8  | 23.8  |





#21

Benzo(b)fluoranthene

Concen: 0.191 ng/ul m

RT: 22.66 min Scan# 6420

Delta R.T. 0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

Instrument :

BNA\_M

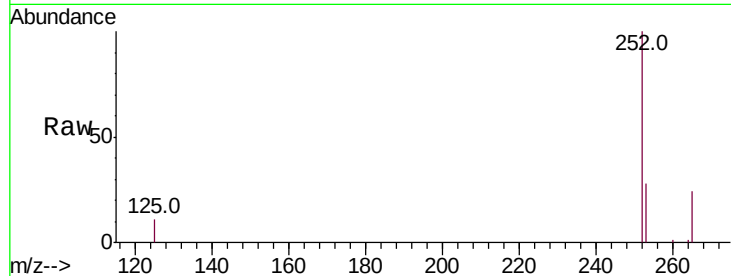
ClientSampleId :

DBD22

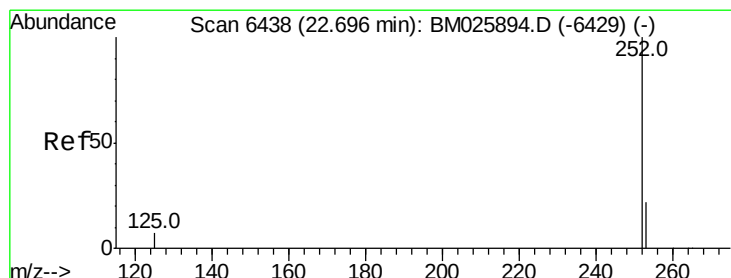
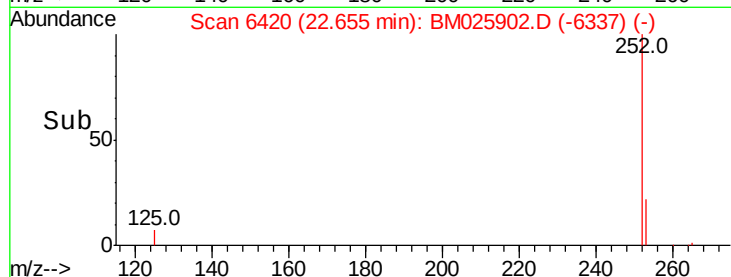
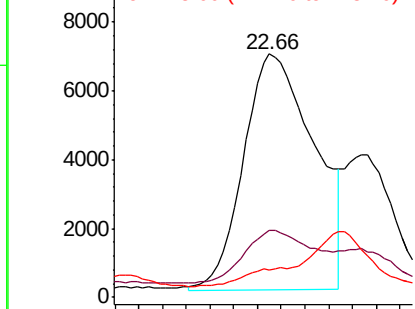
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 14295 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.6  | 0.0   | 46.6  |
| 125       | 11.4  | 0.0   | 15.4  |

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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



#22

Benzo(k)fluoranthene

Concen: 0.069 ng/ul m

RT: 22.70 min Scan# 6437

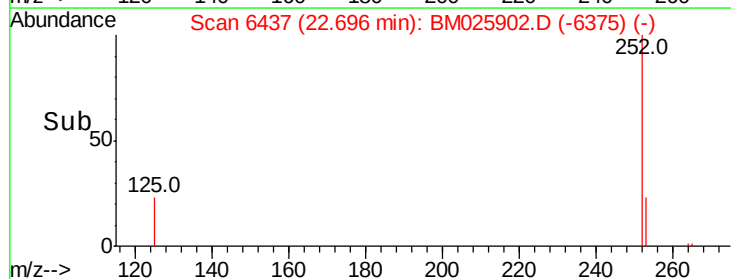
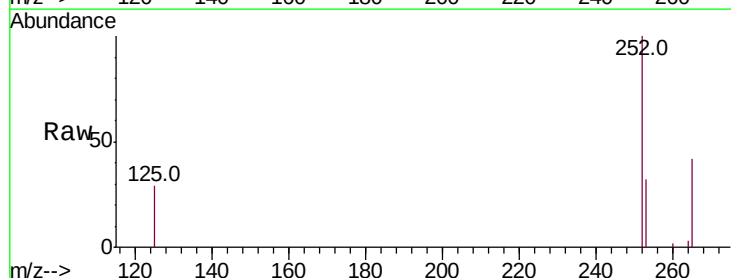
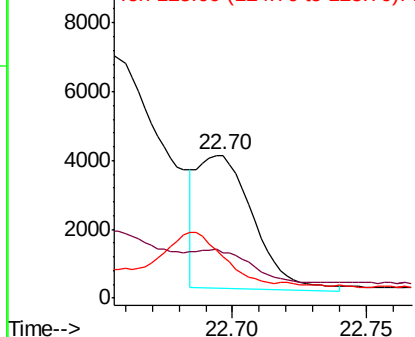
Delta R.T. -0.00 min

Lab File: BM025902.D

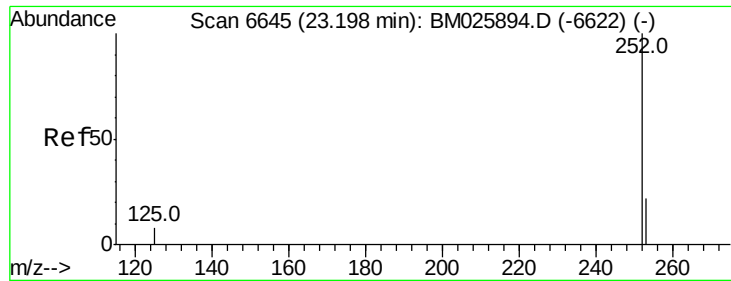
Acq: 02 Apr 2020 15:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 5587  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 31.9  | 19.0  | 28.4# |
| 125       | 29.0  | 6.7   | 10.1# |

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







#23

Benzo(a)pyrene

Concen: 0.077 ng/ul

RT: 23.20 min Scan# 6644

Delta R.T. -0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

Instrument :

BNA\_M

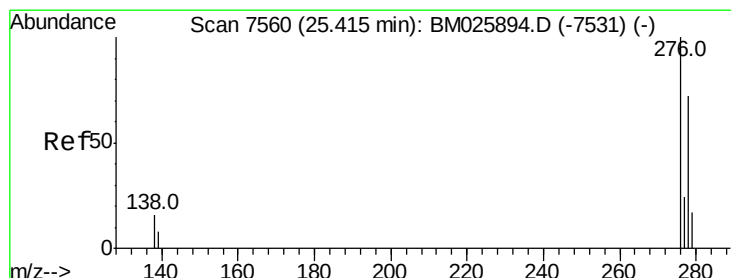
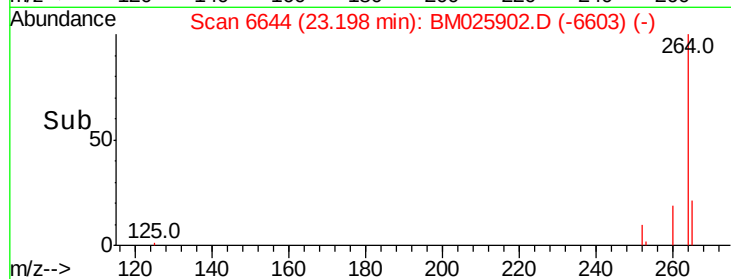
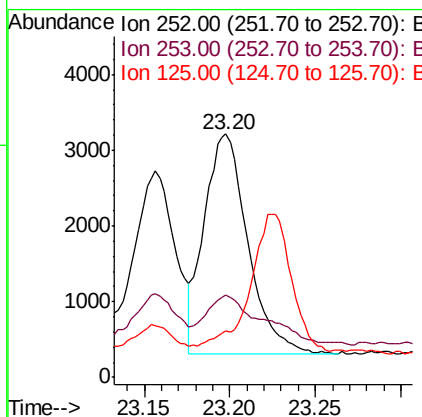
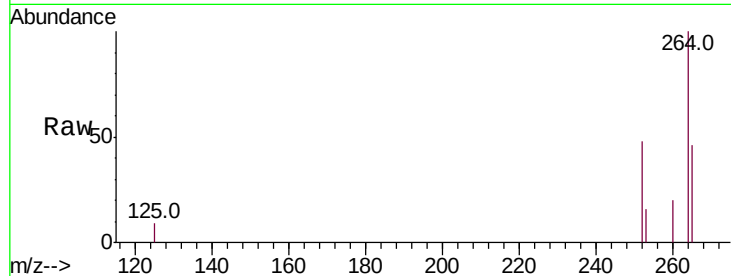
ClientSampleId :

DBD22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 5149  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 33.8  | 19.2  | 28.8# |
| 125       | 19.1  | 7.4   | 11.0# |

Manual Integrations  
APPROVED

mohammad  
4/3/2020 8:05:17 AM



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.022 ng/ul

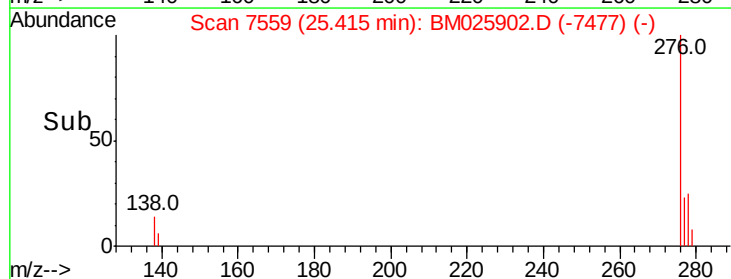
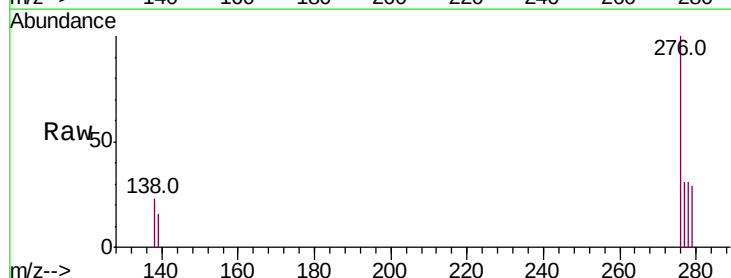
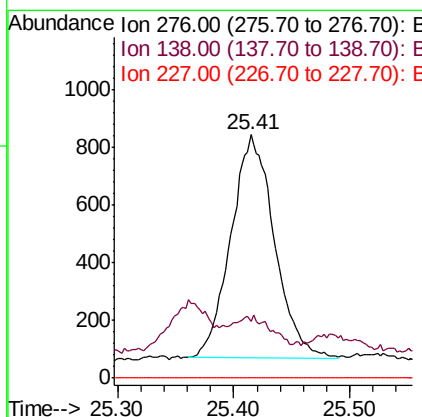
RT: 25.41 min Scan# 7559

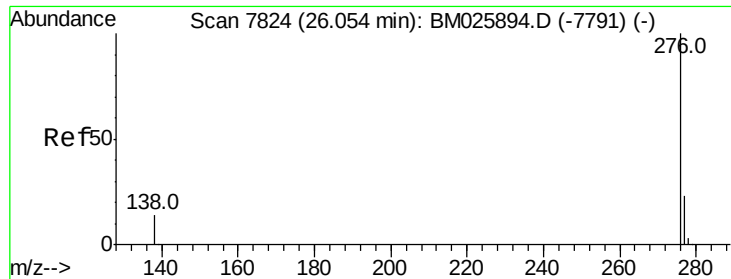
Delta R.T. -0.00 min

Lab File: BM025902.D

Acq: 02 Apr 2020 15:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 2018  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 0.0   | 12.6  | 19.0# |
| 227       | 0.0   | 0.0   | 0.0   |





#26  
Benzo(a,h,i)perylene  
Concen: 0.020 ng/ul  
RT: 26.06 min Scan# 7827  
Delta R.T. 0.01 min  
Lab File: BM025902.D  
Acq: 02 Apr 2020 15:11

Instrument :  
BNA\_M  
ClientSampleId :  
DBD22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.1  | 11.8  | 17.8# |
| 277     | 36.2  | 19.2  | 28.8# |

Manual Integrations  
APPROVED

mohammad  
4/3/2020 8:05:17 AM

