

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
 Data File : BM027961.D  
 Acq On : 25 Nov 2020 13:33  
 Operator : JU/CG  
 Sample : L4751-16DL 2X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AW3DL

Manual Integrations  
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 11/27/2020 11:43:22 AM

Quant Time: Nov 25 14:37:01 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 25 10:43:32 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.32  | 152  | 949      | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.16 | 136  | 3833     | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.94 | 164  | 2227     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.66 | 188  | 4079     | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.76 | 240  | 2320     | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.17 | 264  | 2241     | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.72 | 152  | 387      | 0.06  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.65 | 212  | 632      | 0.06  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 11.21 | 128  | 1454     | 0.127 | ng/ul# | 93       |
| 5) 2-Methylnaphthalene      | 12.79 | 142  | 1178     | 0.151 | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.66 | 152  | 315      | 0.029 | ng/ul# | 55       |
| 8) Acenaphthene             | 15.00 | 153  | 218      | 0.027 | ng/ul# | 90       |
| 9) Fluorene                 | 15.98 | 166  | 221      | 0.023 | ng/ul# | 91       |
| 12) Phenanthrene            | 17.69 | 178  | 6106     | 0.474 | ng/ul  | 99       |
| 13) Anthracene              | 17.79 | 178  | 821      | 0.066 | ng/ul# | 84       |
| 15) Fluoranthene            | 19.67 | 202  | 11616    | 0.813 | ng/ul  | 98       |
| 17) Pyrene                  | 20.03 | 202  | 9961     | 0.845 | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 4701     | 0.502 | ng/ul  | 97       |
| 19) Chrysene                | 21.80 | 228  | 5751     | 0.631 | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 23.44 | 252  | 7537m    | 0.800 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.48 | 252  | 2712m    | 0.294 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.07 | 252  | 4661     | 0.566 | ng/ul  | 97       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.67 | 276  | 3626     | 0.407 | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 26.67 | 278  | 931      | 0.125 | ng/ul# | 58       |
| 26) Benzo(a,h,i)perylene    | 27.44 | 276  | 3270     | 0.437 | ng/ul  | 96       |

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

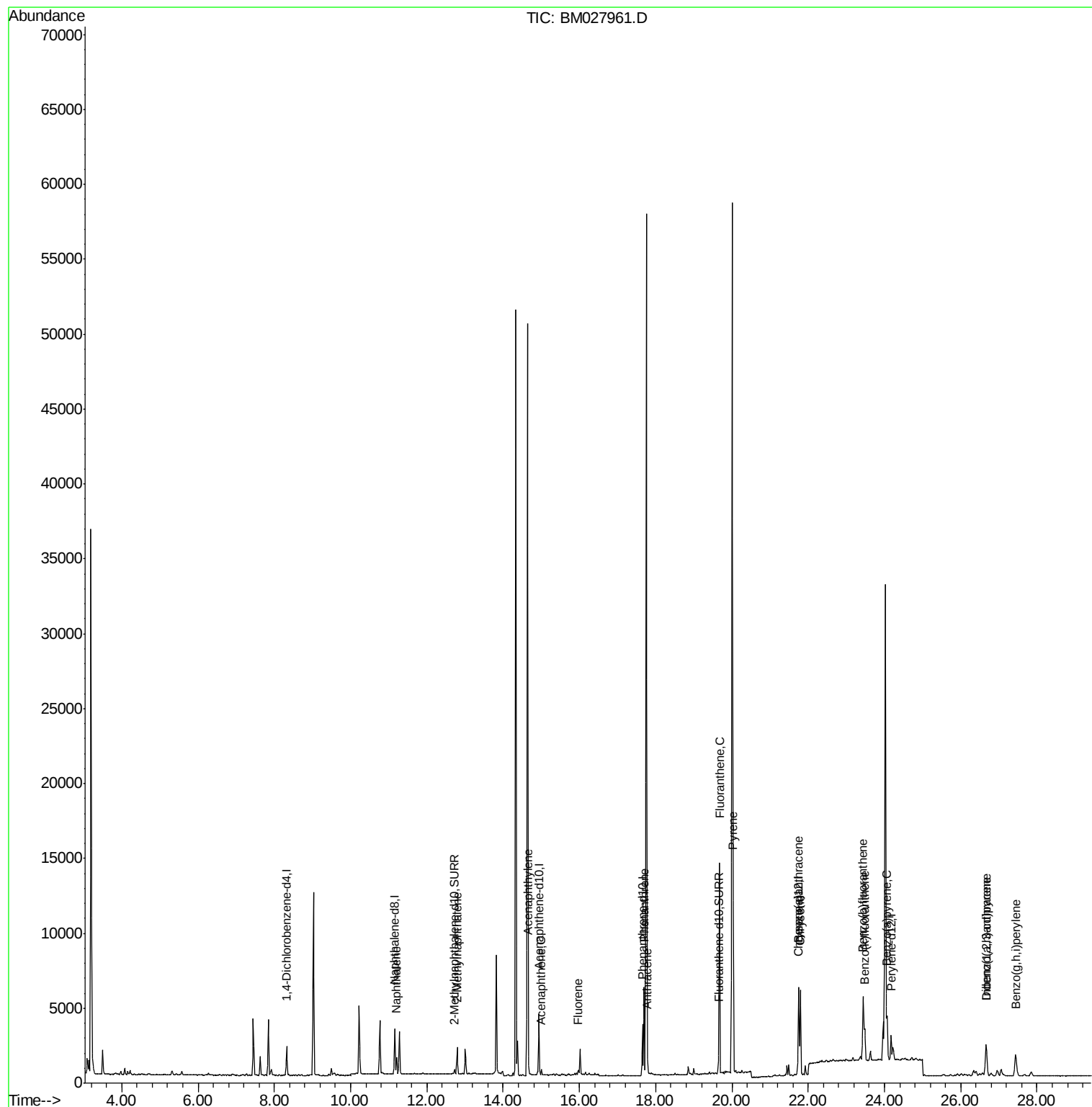
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
Data File : BM027961.D  
Acq On : 25 Nov 2020 13:33  
Operator : JU/CG  
Sample : L4751-16DL 2X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

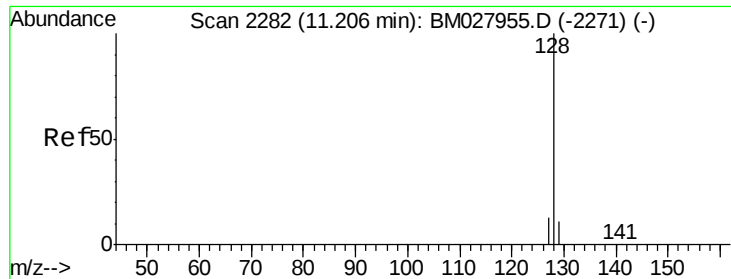
Instrument :  
BNA\_M  
ClientSampleId :  
C0AW3DL

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Quant Time: Nov 25 14:37:01 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 25 10:43:32 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.127 ng/ul

RT: 11.21 min Scan# 2282

Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

Instrument :

BNA\_M

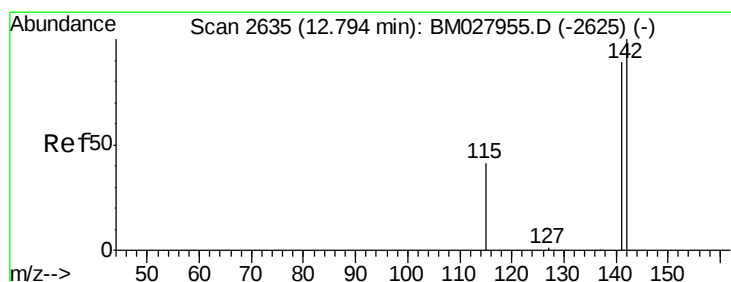
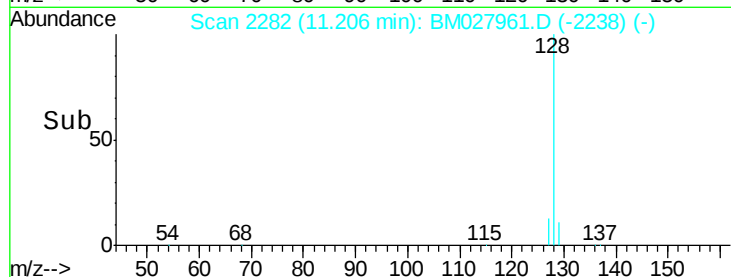
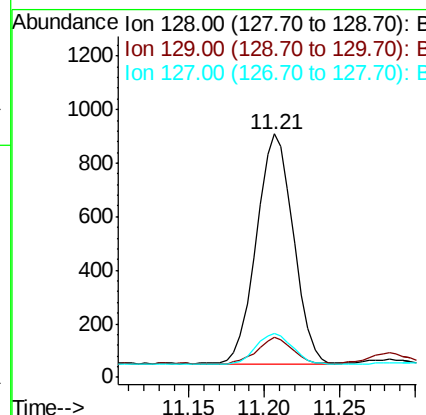
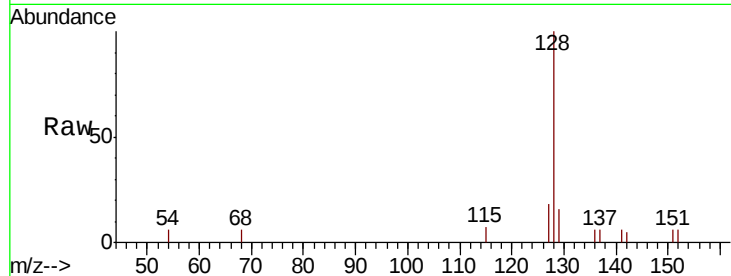
ClientSampleId :

C0AW3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 16.3  | 10.4  | 15.6# |
| 127     | 17.8  | 12.0  | 18.0  |

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#5

2-Methylnaphthalene

Concen: 0.151 ng/ul

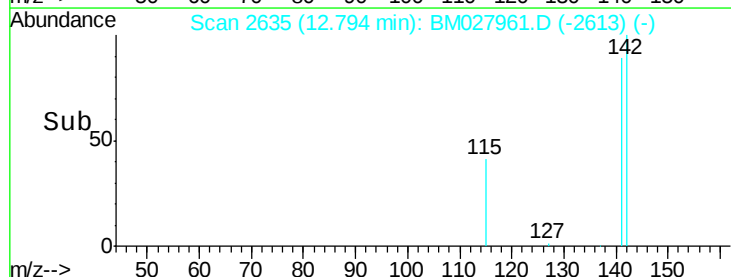
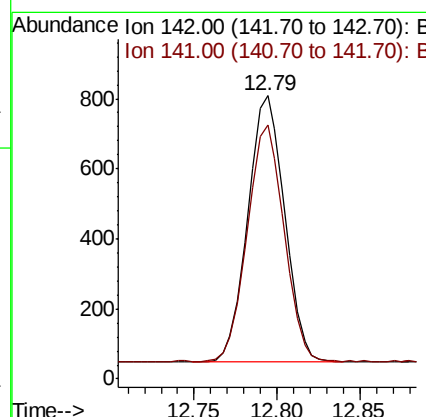
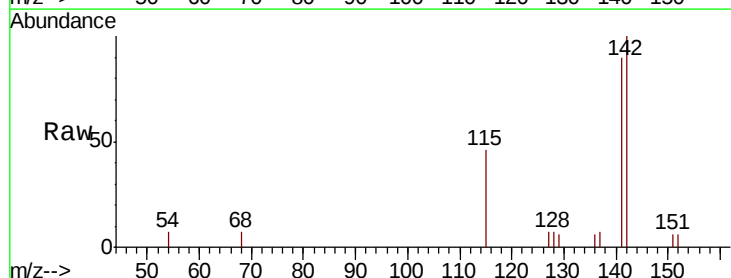
RT: 12.79 min Scan# 2635

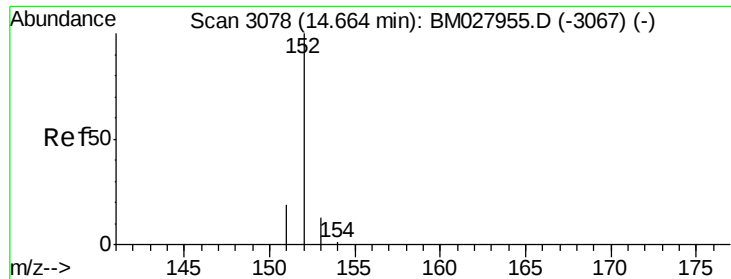
Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.4  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.029 ng/ul

RT: 14.66 min Scan# 3078

Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

Instrument :

BNA\_M

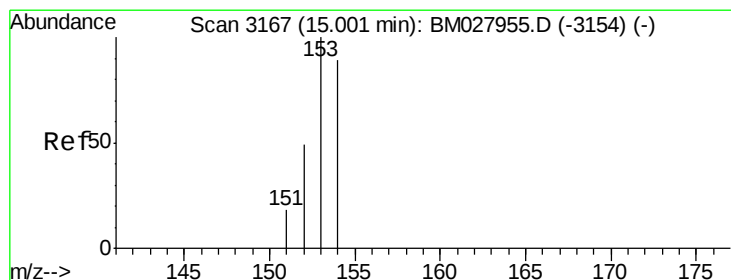
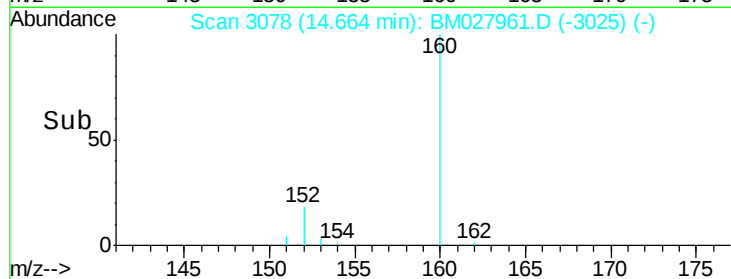
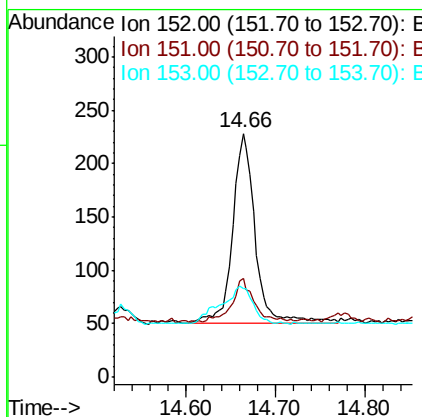
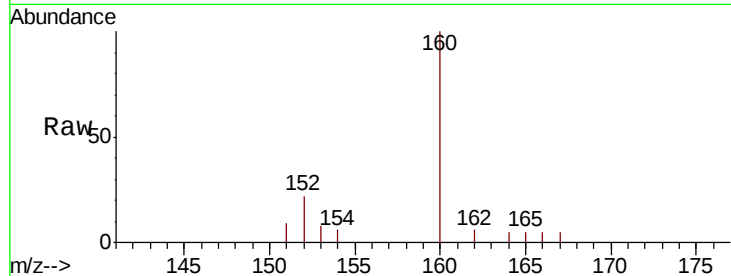
ClientSampleId :

C0AW3DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 315   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 40.8  | 17.1  | 25.7# |
| 153       | 36.4  | 12.0  | 18.0# |

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#8

Acenaphthene

Concen: 0.027 ng/ul

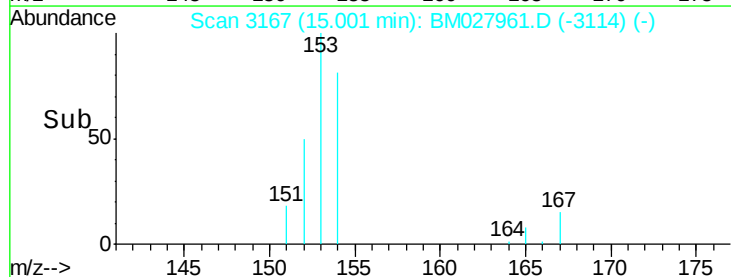
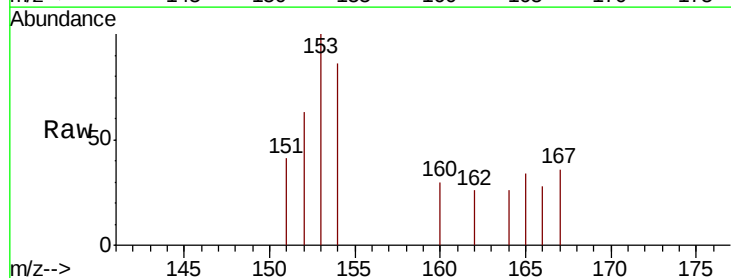
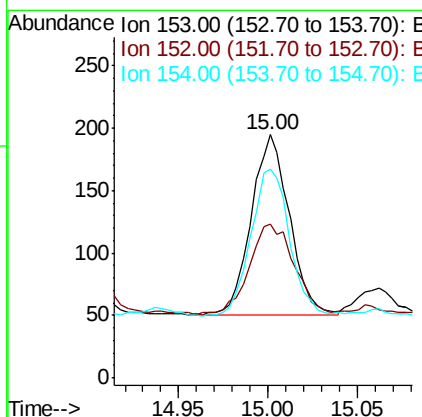
RT: 15.00 min Scan# 3167

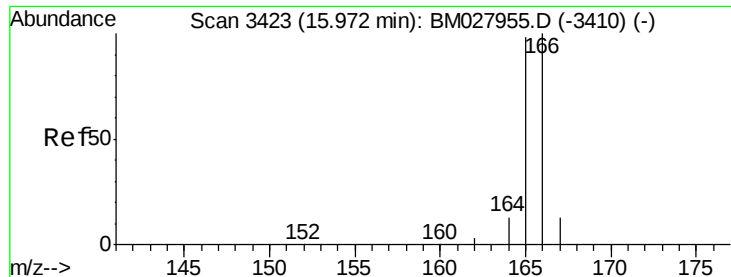
Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 218   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 63.1  | 39.0  | 58.6# |
| 154       | 85.6  | 71.6  | 107.4 |





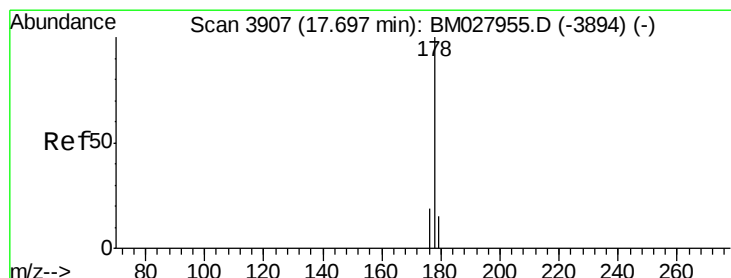
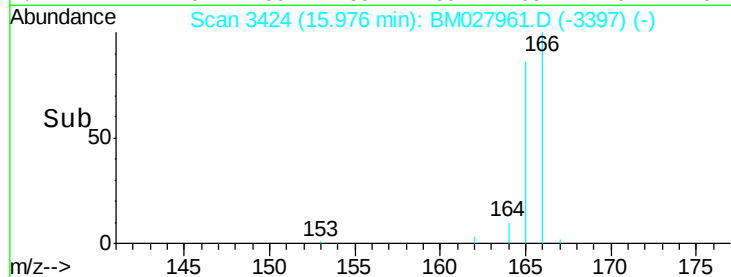
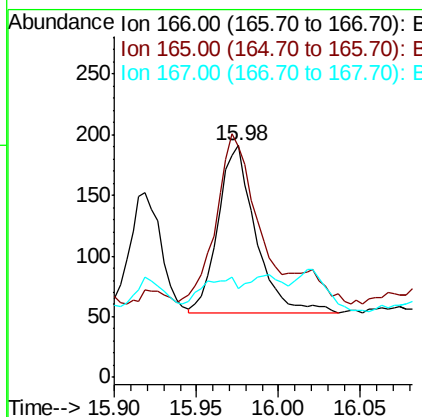
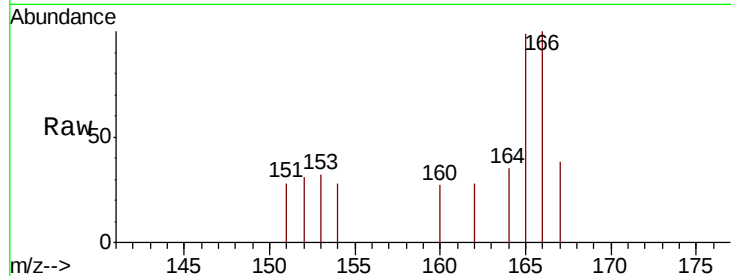
#9  
**Fluorene**  
 Concen: 0.023 ng/ul  
 RT: 15.98 min Scan# 3424  
 Delta R.T. 0.00 min  
 Lab File: BM027961.D  
 Acq: 25 Nov 2020 13:33

Instrument :  
 BNA\_M  
 ClientSampleID :  
 C0AW3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.5  | 78.1  | 117.1 |
| 167     | 38.2  | 11.8  | 17.8  |

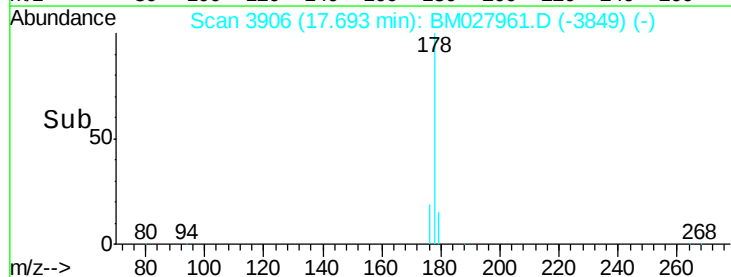
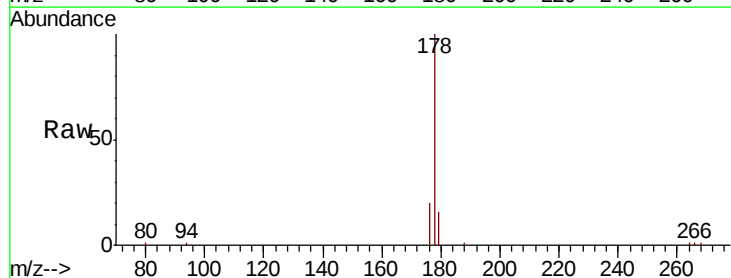
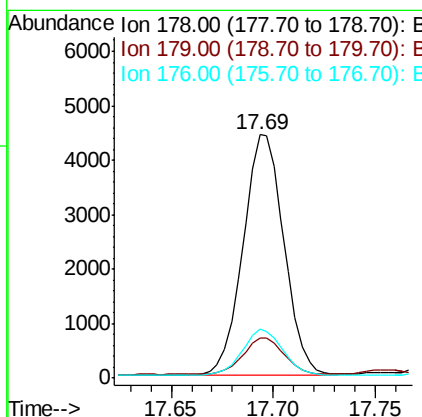
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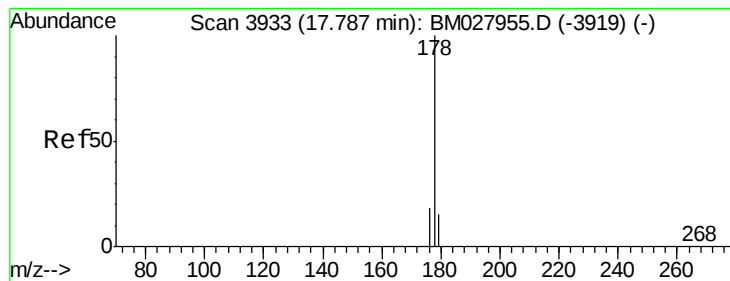
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#12  
**Phenanthrene**  
 Concen: 0.474 ng/ul  
 RT: 17.69 min Scan# 3906  
 Delta R.T. -0.00 min  
 Lab File: BM027961.D  
 Acq: 25 Nov 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.3  | 13.6  | 20.4  |
| 176     | 20.1  | 16.1  | 24.1  |





#13

Anthracene

Concen: 0.066 ng/ul

RT: 17.79 min Scan# 3933

Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

Instrument :

BNA\_M

ClientSampleId :

C0AW3DL

Tot Ion:178 Resp: 821

Ion Ratio Lower Upper

178 100

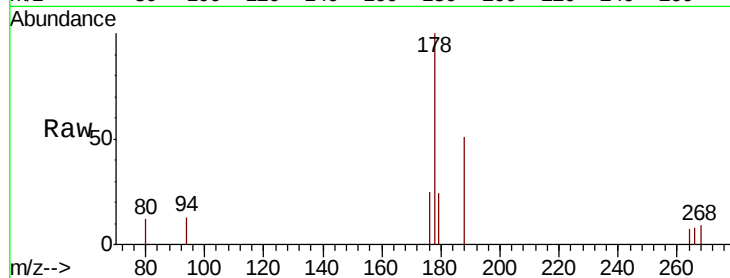
179 24.5 13.4 20.2#

176 25.4 15.0 22.6#

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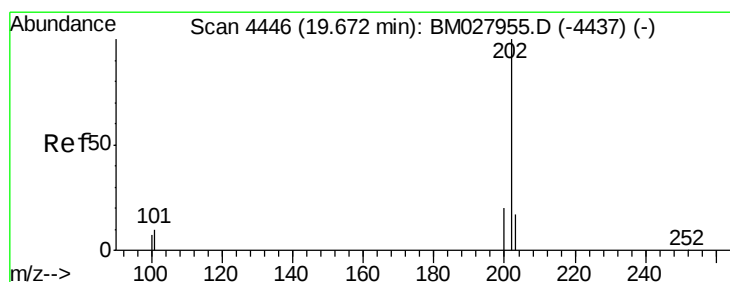
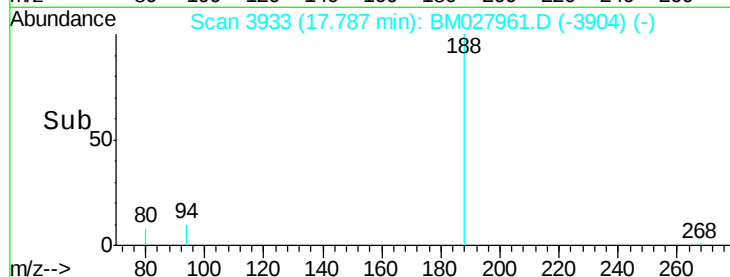
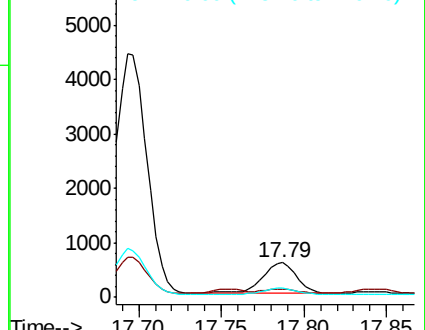
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15

Fluoranthene

Concen: 0.813 ng/ul

RT: 19.67 min Scan# 4446

Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

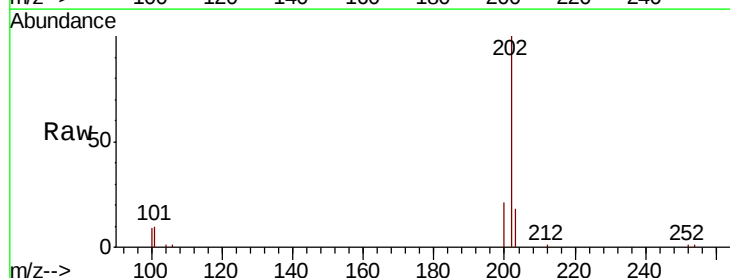
Tgt Ion:202 Resp: 11616

Ion Ratio Lower Upper

202 100

101 9.9 0.0 29.3

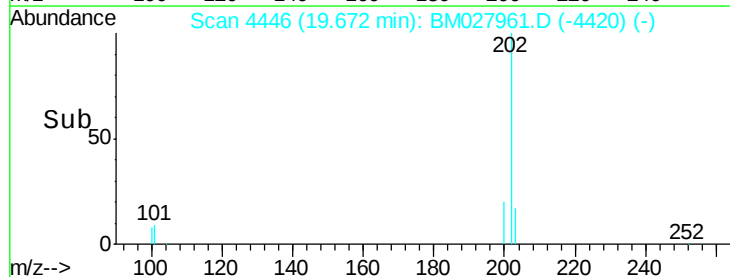
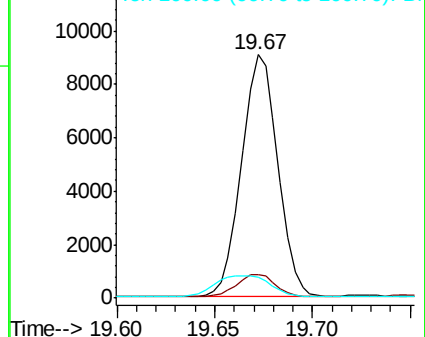
100 8.6 0.0 27.4

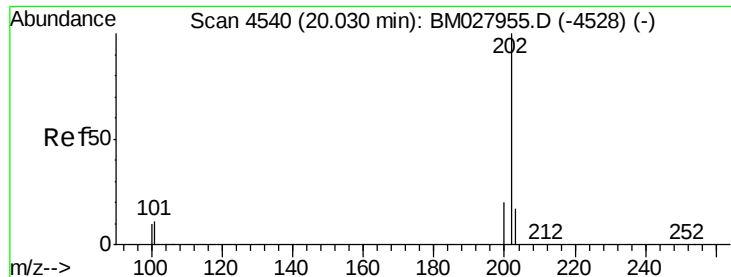


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





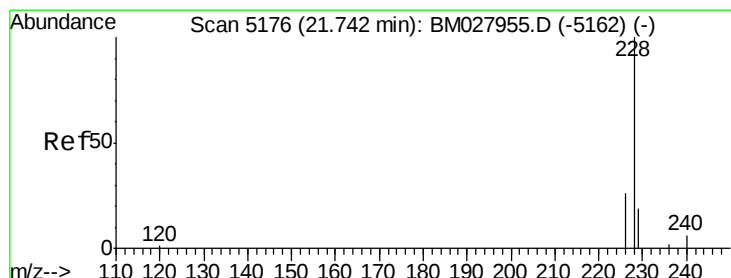
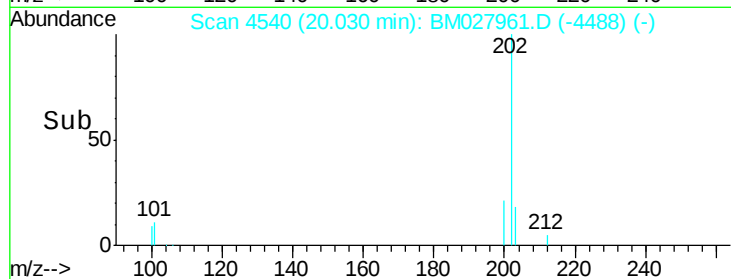
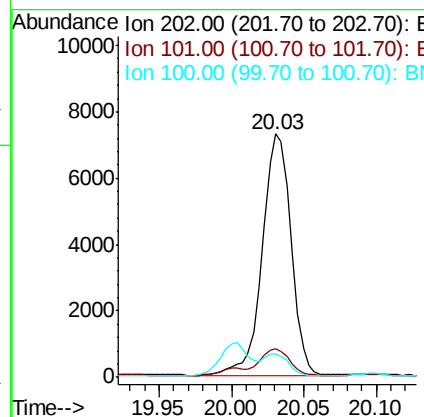
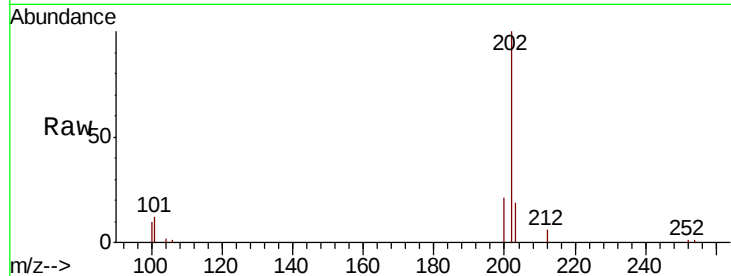
#17  
Pvrene  
Concen: 0.845 ng/ul  
RT: 20.03 min Scan# 4540  
Delta R.T. 0.00 min  
Lab File: BM027961.D  
Acq: 25 Nov 2020 13:33

Instrument :  
BNA\_M  
ClientSampleId :  
C0AW3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.7  | 8.2   | 12.2  |
| 100     | 9.9   | 6.9   | 10.3  |

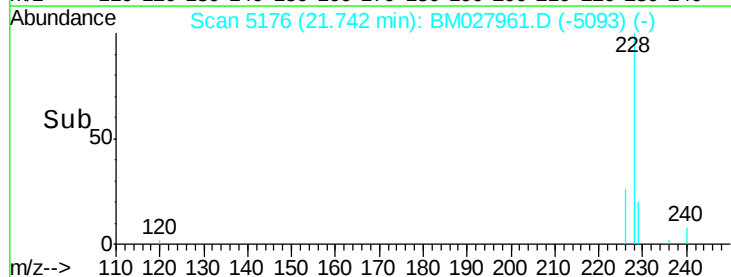
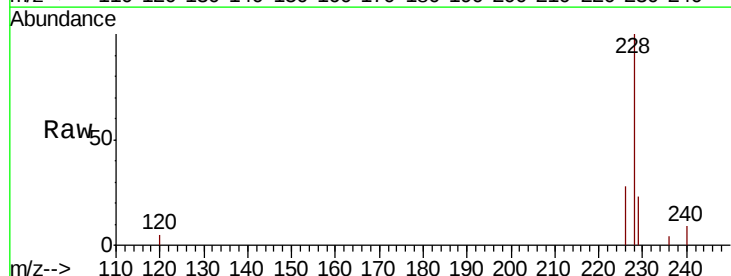
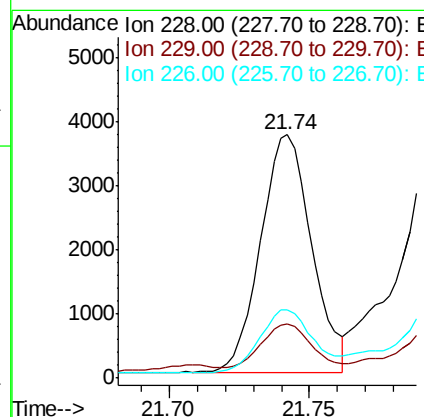
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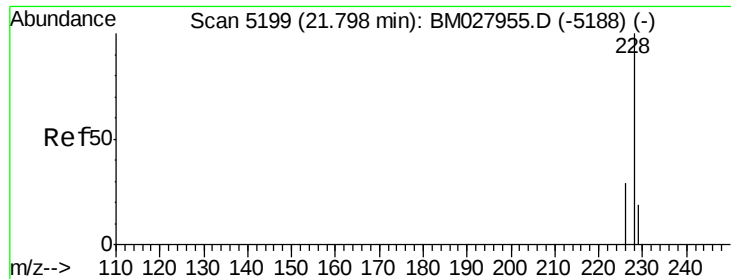
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#18  
Benzo(a)anthracene  
Concen: 0.502 ng/ul  
RT: 21.74 min Scan# 5176  
Delta R.T. 0.00 min  
Lab File: BM027961.D  
Acq: 25 Nov 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.5  | 16.2  | 24.4  |
| 226     | 28.0  | 21.5  | 32.3  |





#19

Chrysene

Concen: 0.631 ng/ul

RT: 21.80 min Scan# 5198

Delta R.T. -0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

Instrument :

BNA\_M

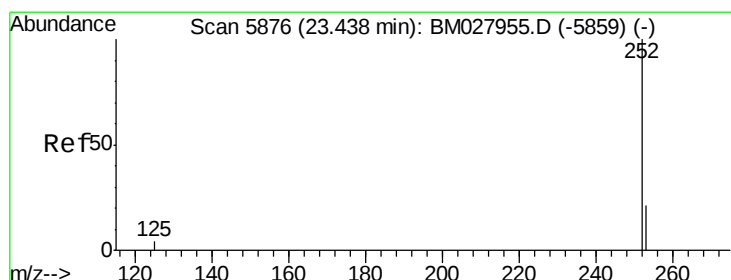
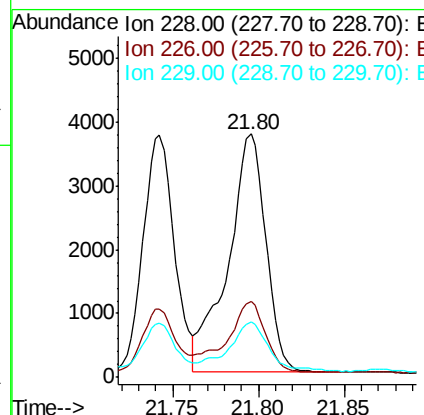
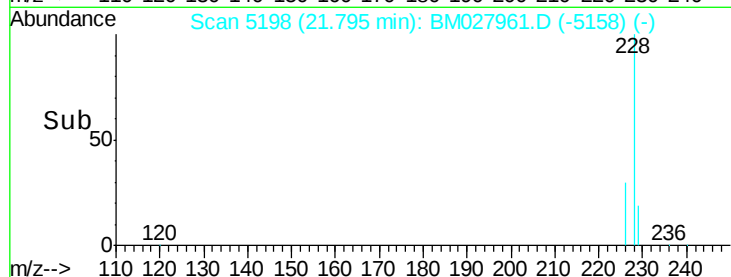
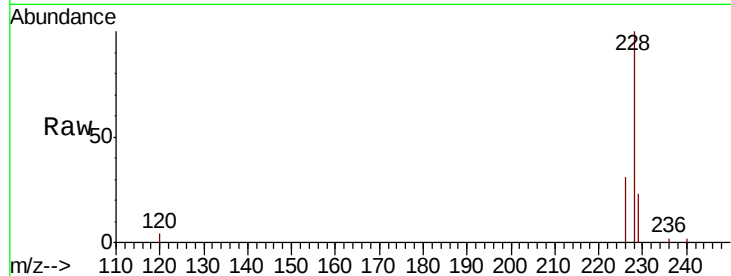
ClientSampleID :

C0AW3DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 228   | Resp: | 5751 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.1  | 24.1  | 36.1 |
| 229       | 22.9  | 16.6  | 24.8 |

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#21

Benzo(b)fluoranthene

Concen: 0.800 ng/ul m

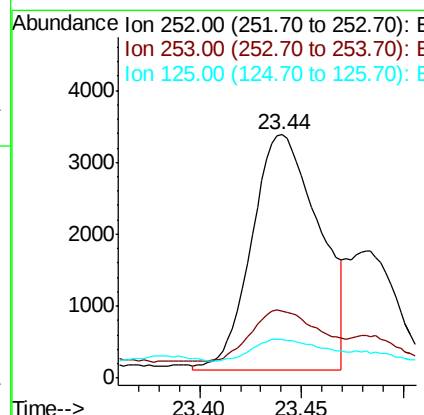
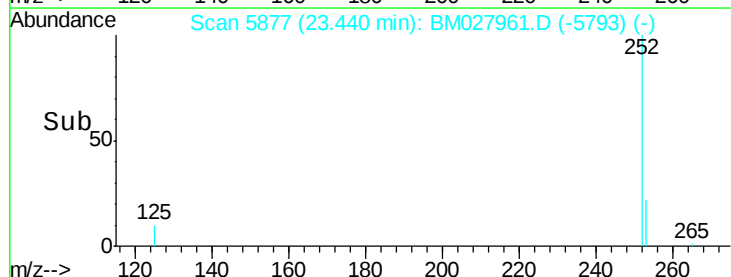
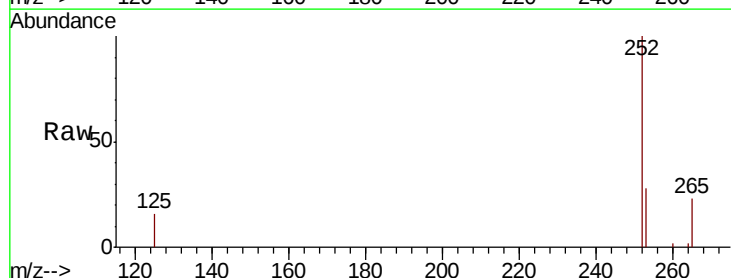
RT: 23.44 min Scan# 5877

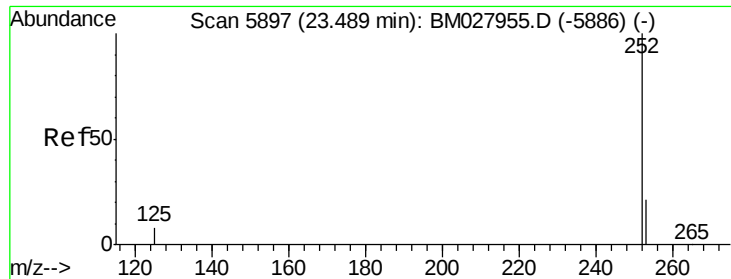
Delta R.T. 0.00 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 7537 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 27.7  | 0.0   | 59.6 |
| 125       | 15.9  | 0.0   | 28.4 |





#22

Benzo(k)fluoranthene

Concen: 0.294 ng/ul

RT: 23.48 min Scan# 5894

Delta R.T. -0.01 min

Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

Instrument :

BNA\_M

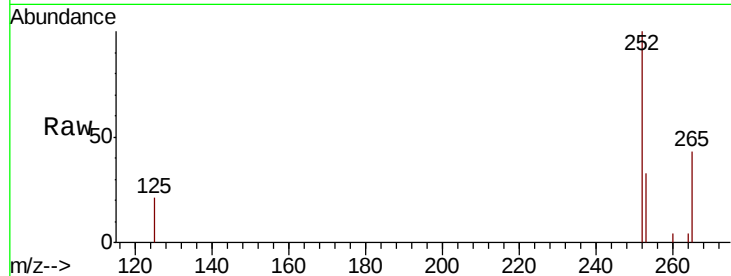
ClientSampleId :

C0AW3DL

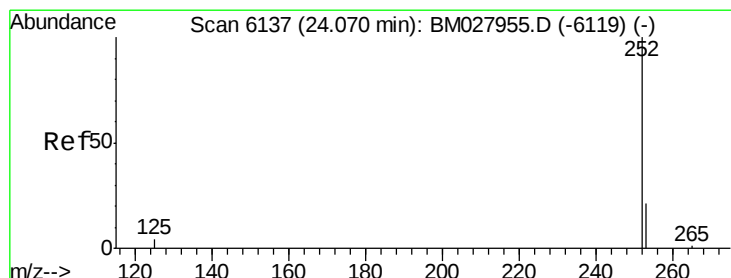
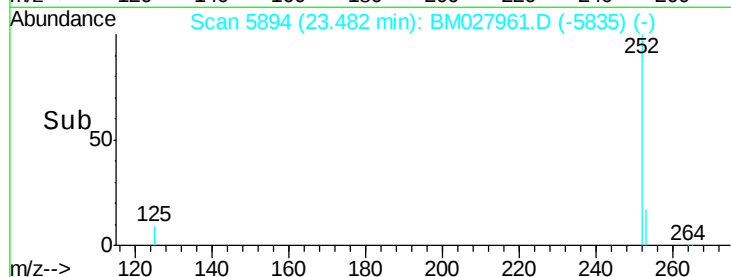
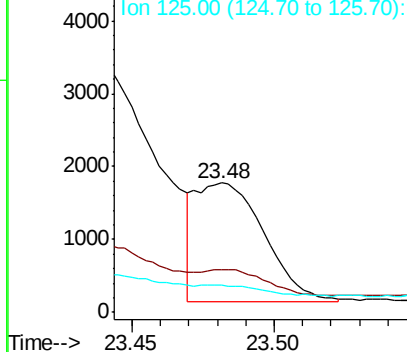
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 252   | Resp: | 2712 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 33.0  | 23.2  | 34.8 |
| 125       | 21.0  | 11.8  | 17.6 |

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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



#23

Benzo(a)pyrene

Concen: 0.566 ng/ul

RT: 24.07 min Scan# 6136

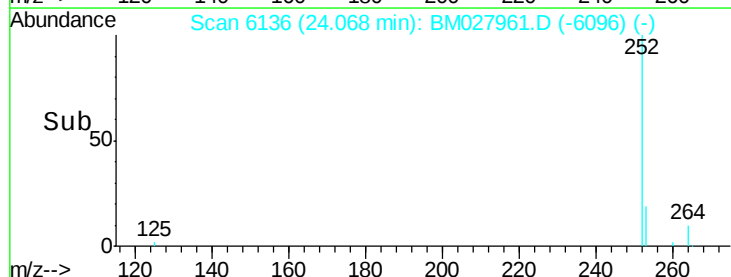
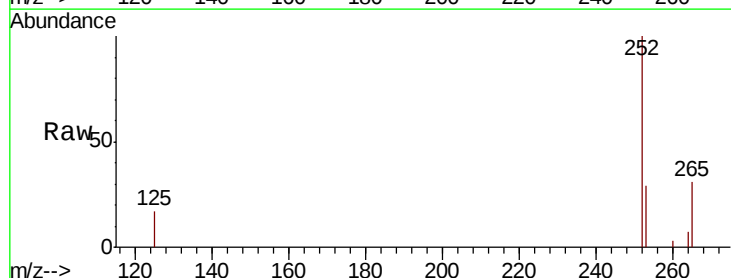
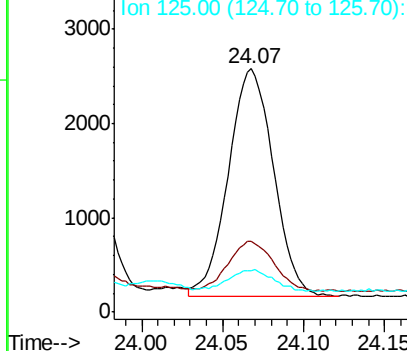
Delta R.T. -0.00 min

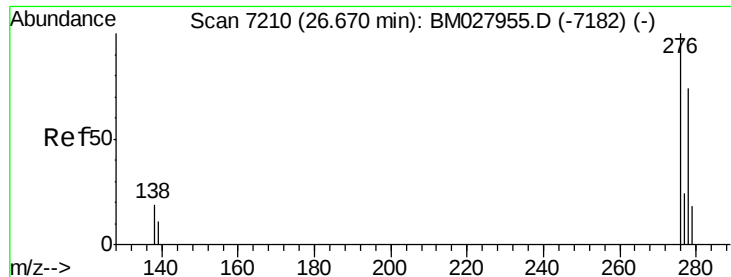
Lab File: BM027961.D

Acq: 25 Nov 2020 13:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4661 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.2  | 25.2  | 37.8 |
| 125       | 17.0  | 13.8  | 20.6 |

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





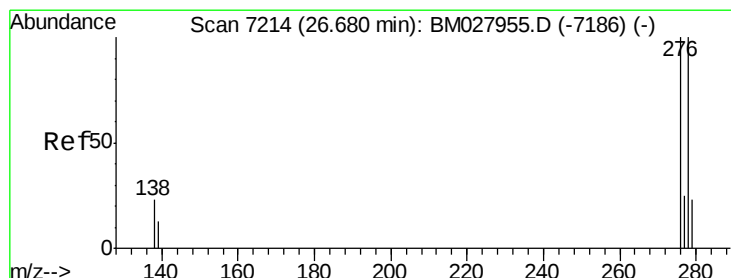
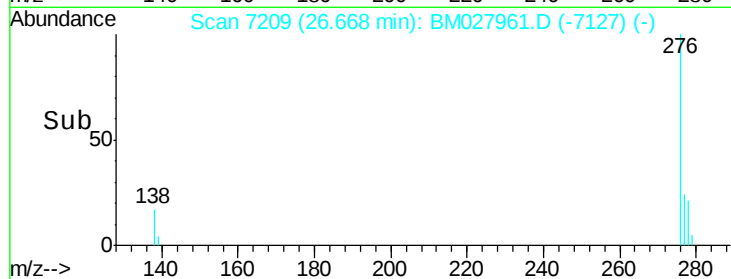
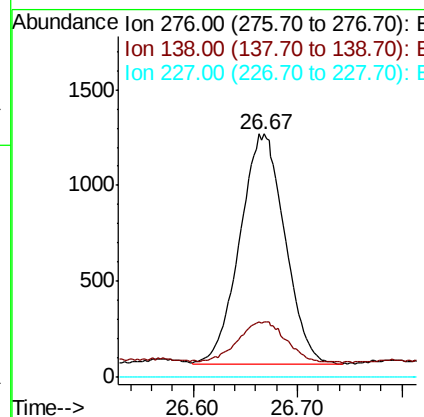
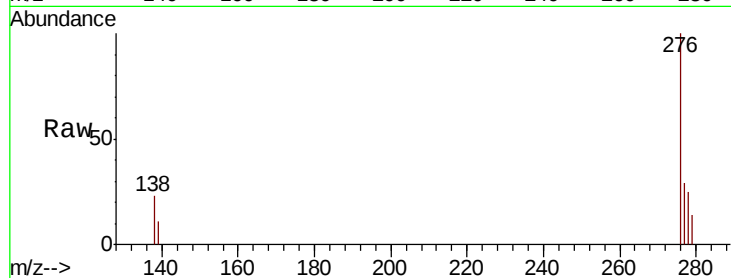
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.407 ng/ul  
RT: 26.67 min Scan# 7209  
Delta R.T. -0.00 min  
Lab File: BM027961.D  
Acq: 25 Nov 2020 13:33

Instrument :  
BNA\_M  
ClientSampleId :  
C0AW3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.2  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |

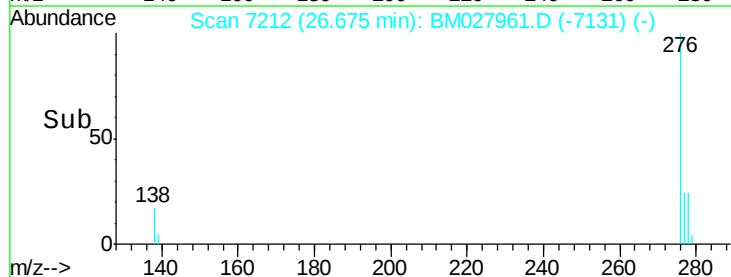
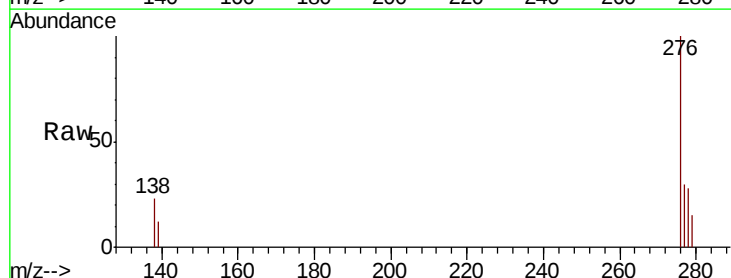
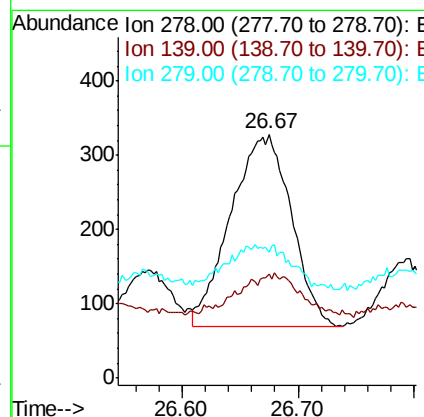
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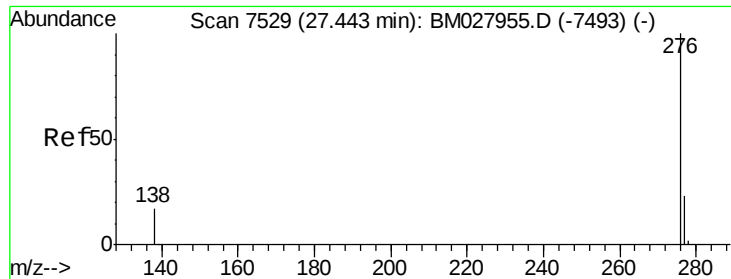
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.125 ng/ul  
RT: 26.67 min Scan# 7212  
Delta R.T. -0.00 min  
Lab File: BM027961.D  
Acq: 25 Nov 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 42.7  | 14.8  | 22.2# |
| 279     | 51.8  | 25.8  | 38.6# |





#26  
 Benzo(a,h,i)perylene  
 Concen: 0.437 ng/ul  
 RT: 27.44 min Scan# 7528  
 Delta R.T. -0.00 min  
 Lab File: BM027961.D  
 Acq: 25 Nov 2020 13:33

Instrument :  
 BNA\_M  
 ClientSampleID :  
 C0AW3DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 3270 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 24.7  | 17.4  | 26.2 |
| 277       | 29.5  | 22.5  | 33.7 |

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