

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
 Data File : BM027977.D  
 Acq On : 25 Nov 2020 23:14  
 Operator : JU/CG  
 Sample : L4749-13  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B12

Manual Integrations  
 APPROVED

mohammad  
 11/27/2020 11:44:15 AM

Quant Time: Nov 26 01:26:49 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 : Thu Nov 26 00:48:20 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.32  | 152  | 1282     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.15 | 136  | 5201     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.94 | 164  | 3082     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.66 | 188  | 5701     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.76 | 240  | 3359     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.17 | 264  | 3295     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.72 | 152  | 1891     | 0.22   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.65 | 212  | 3142     | 0.21   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 11.21 | 128  | 2412     | 0.155  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.79 | 142  | 1348     | 0.127  | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.66 | 152  | 2805     | 0.187  | ng/ul  | 98       |
| 8) Acenaphthene             | 15.00 | 153  | 3560     | 0.316  | ng/ul  | 99       |
| 9) Fluorene                 | 15.97 | 166  | 4355     | 0.333  | ng/ul  | 100      |
| 12) Phenanthrene            | 17.70 | 178  | 204883   | 11.377 | ng/ul  | 97       |
| 13) Anthracene              | 17.78 | 178  | 16351    | 0.941  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.68 | 202  | 552373   | 27.663 | ng/ul  | 99       |
| 17) Pyrene                  | 20.03 | 202  | 440242   | 25.807 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 153699   | 11.341 | ng/ul  | 100      |
| 19) Chrysene                | 21.80 | 228  | 238107   | 18.037 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.44 | 252  | 295650m  | 21.350 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.48 | 252  | 108116m  | 7.973  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.07 | 252  | 175435   | 14.490 | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.67 | 276  | 141653   | 10.806 | ng/ul# | 96       |
| 25) Dibenzo(a,h)anthracene  | 26.67 | 278  | 31091m   | 2.848  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 27.44 | 276  | 131730   | 11.977 | ng/ul  | 93       |

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

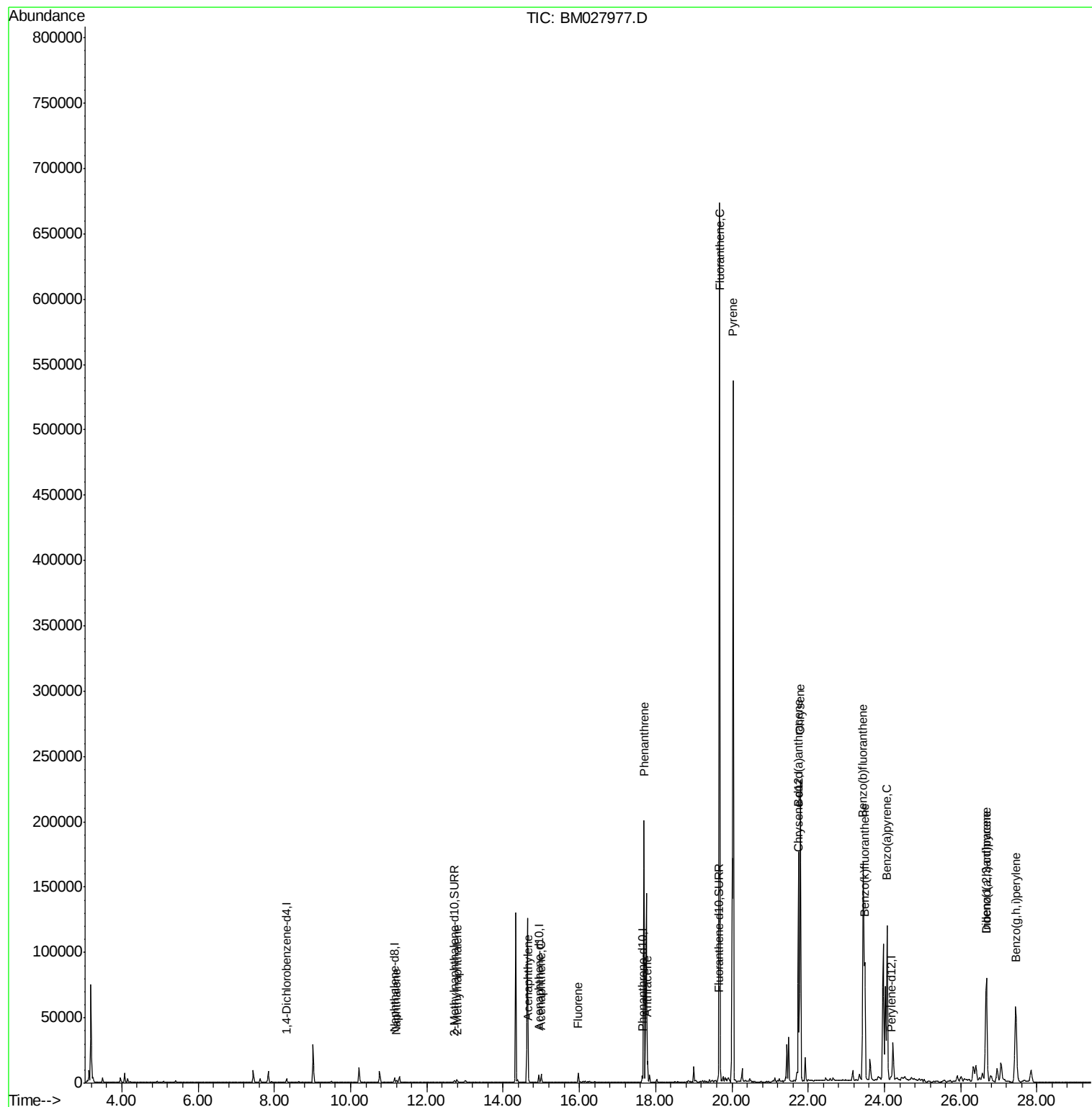
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
Data File : BM027977.D  
Acq On : 25 Nov 2020 23:14  
Operator : JU/CG  
Sample : L4749-13  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

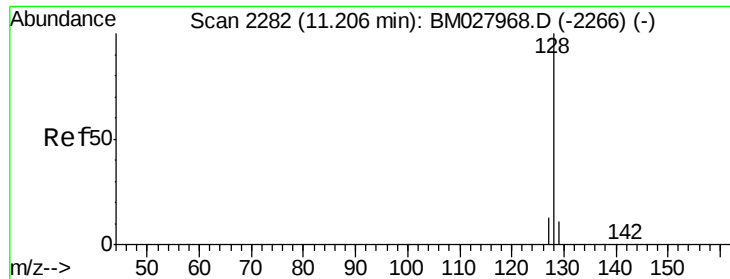
Instrument :  
BNA\_M  
ClientSampleId :  
C0B12

Quant Time: Nov 26 01:26:49 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 : Thu Nov 26 00:48:20 2020  
Response via : Initial Calibration

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#3

Naphthalene

Concen: 0.155 ng/ul

RT: 11.21 min Scan# 2282

Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

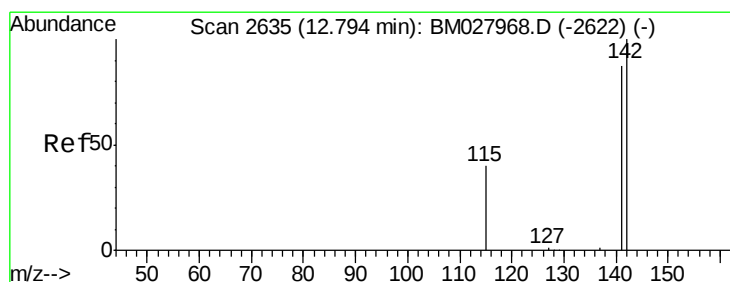
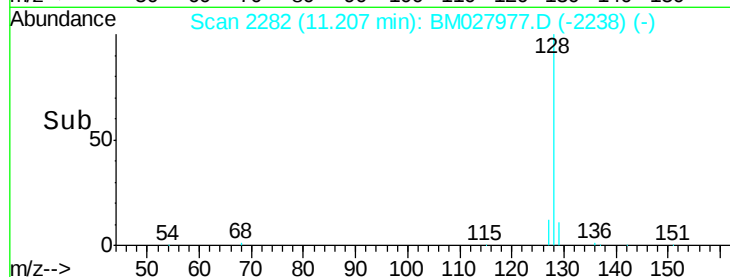
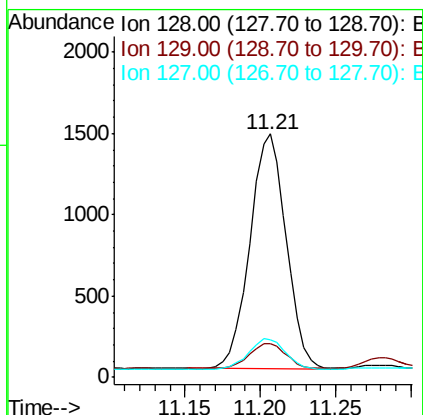
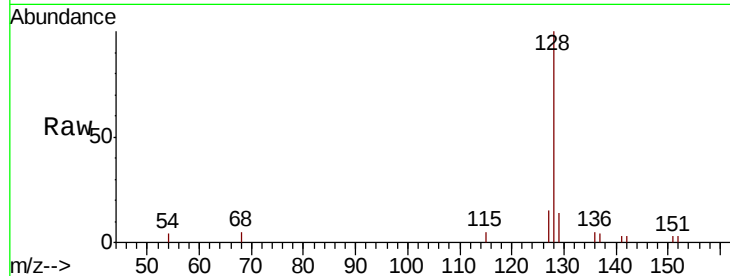
ClientSampleId :

C0B12

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 2412  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.9  | 10.4  | 15.6  |
| 127      | 15.3  | 12.0  | 18.0  |

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#5

2-Methylnaphthalene

Concen: 0.127 ng/ul

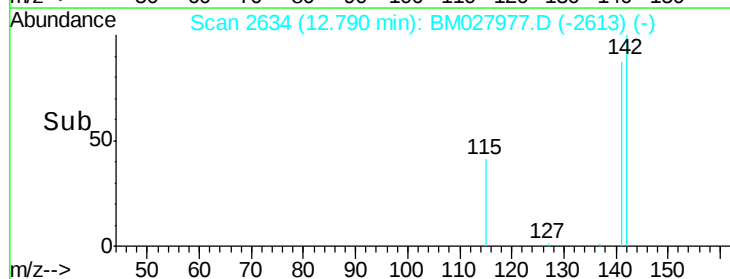
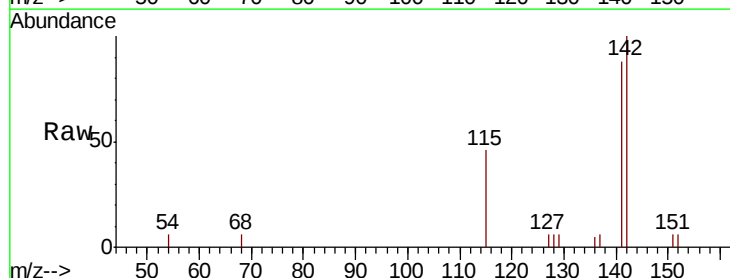
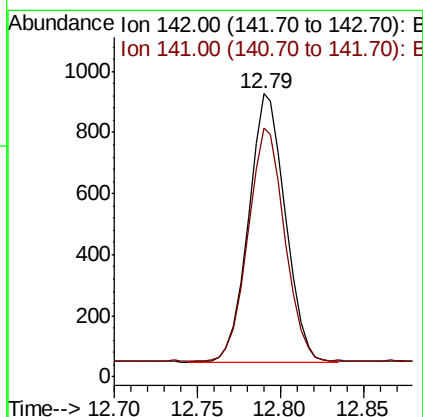
RT: 12.79 min Scan# 2634

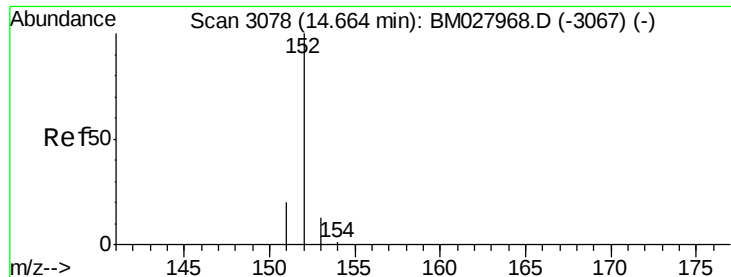
Delta R.T. -0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 1348  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 86.7  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.187 ng/ul

RT: 14.66 min Scan# 3078

Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

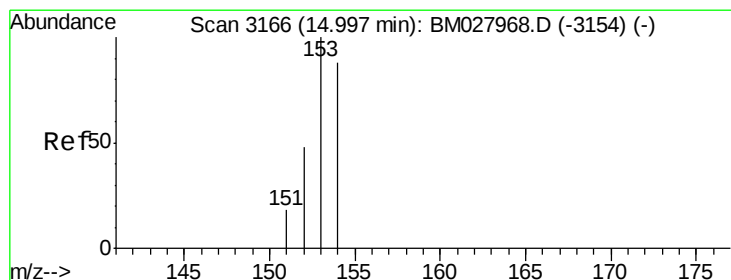
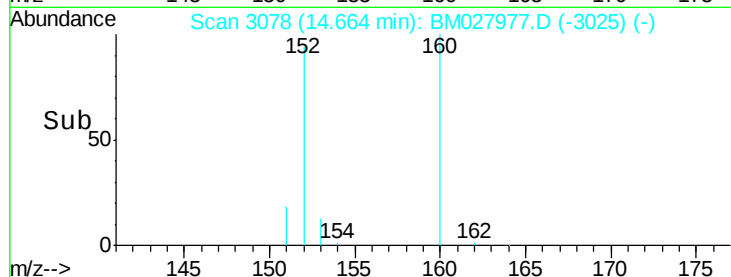
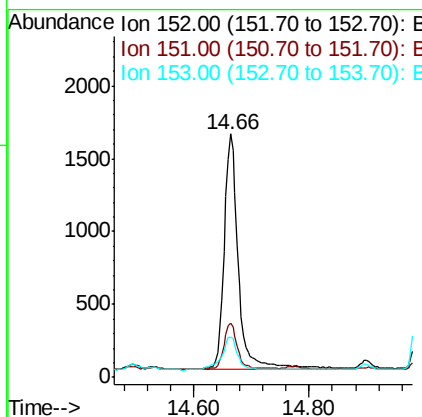
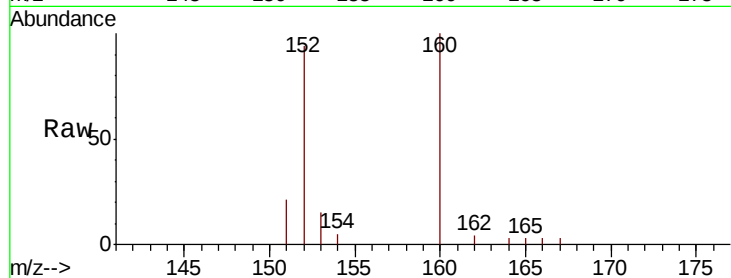
ClientSampled :

C0B12

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 2805 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 22.0  | 17.1  | 25.7 |
| 153       | 16.4  | 12.0  | 18.0 |

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#8

Acenaphthene

Concen: 0.316 ng/ul

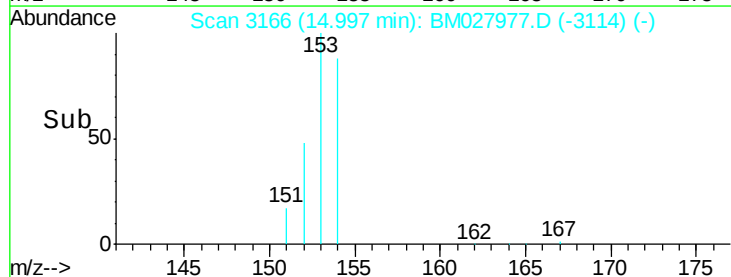
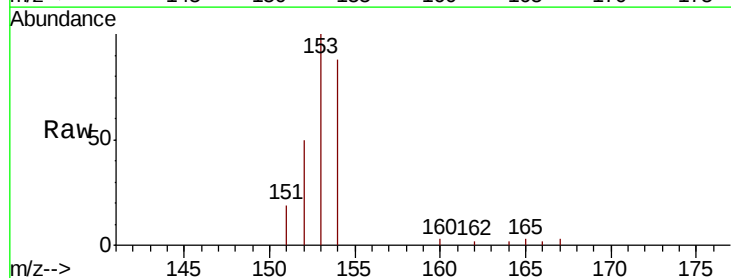
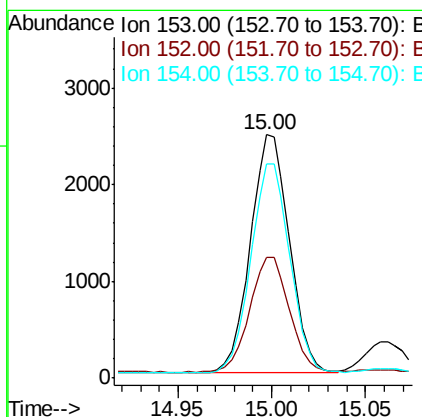
RT: 15.00 min Scan# 3166

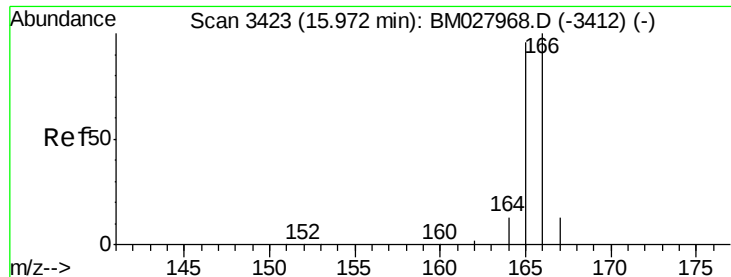
Delta R.T. -0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 3560  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.7  | 39.0  | 58.6  |
| 154       | 88.1  | 71.6  | 107.4 |





#9

Fluorene

Concen: 0.333 ng/ul

RT: 15.97 min Scan# 3423

Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

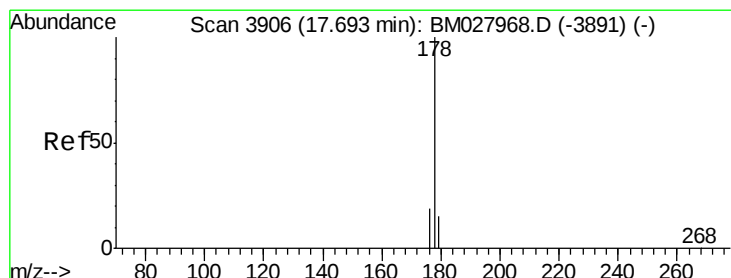
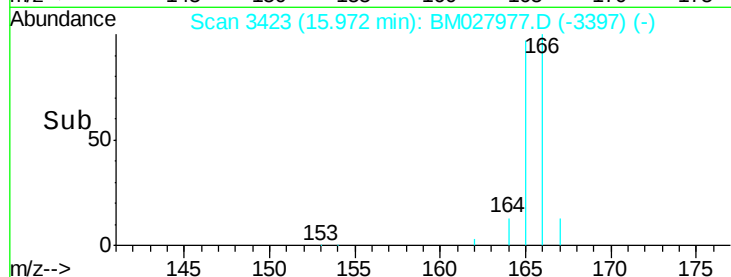
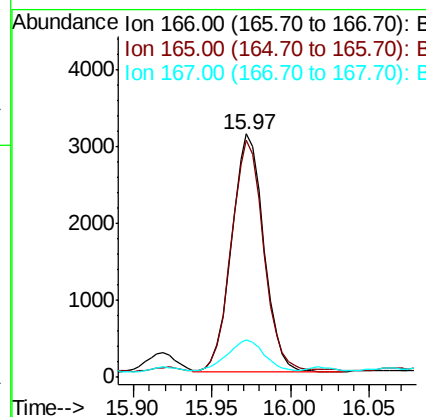
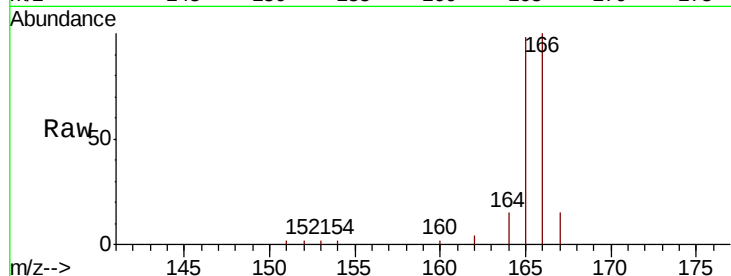
ClientSampleId :

C0B12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 4355  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.5  | 78.1  | 117.1 |
| 167       | 15.3  | 11.8  | 17.8  |

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#12

Phenanthrene

Concen: 11.377 ng/ul

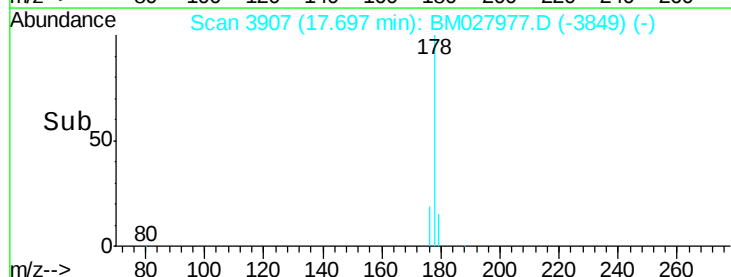
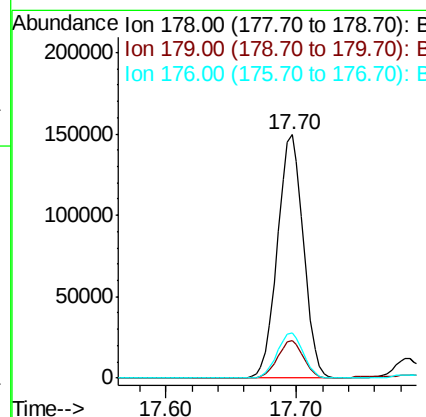
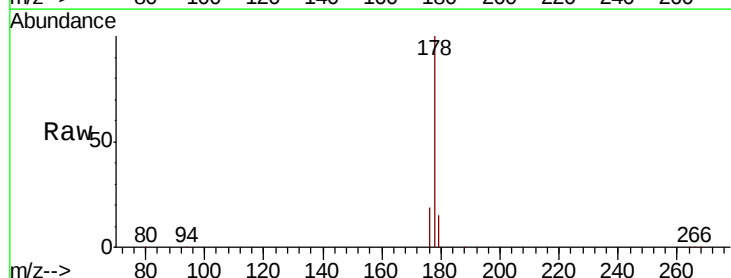
RT: 17.70 min Scan# 3907

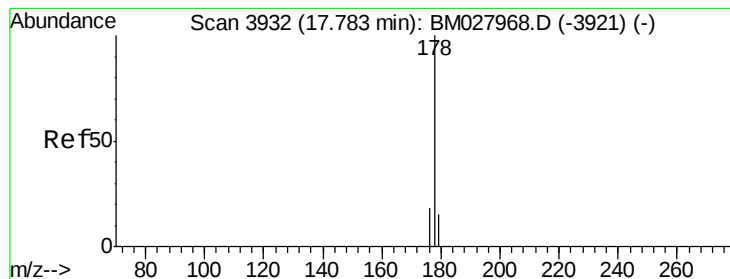
Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 204883 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.4  | 13.6  | 20.4   |
| 176       | 18.7  | 16.1  | 24.1   |





#13

Anthracene

Concen: 0.941 ng/ul

RT: 17.78 min Scan# 3932

Delta R.T. -0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

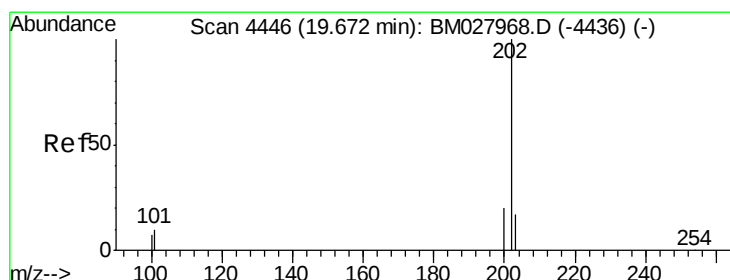
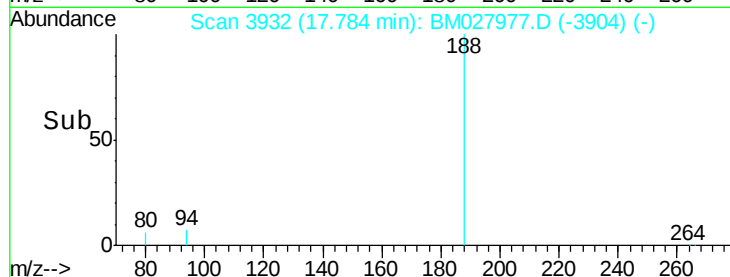
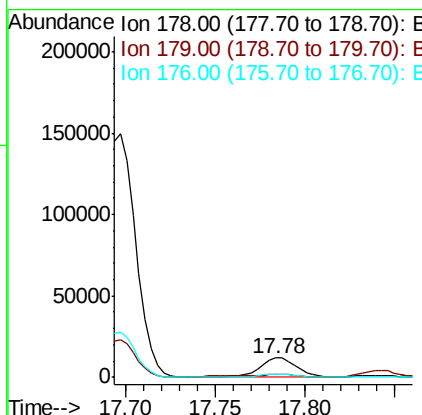
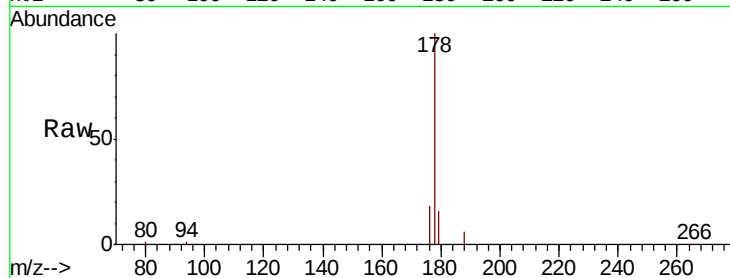
ClientSampleId :

C0B12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 16351 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.8  | 13.4  | 20.2  |
| 176       | 18.2  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 27.663 ng/ul

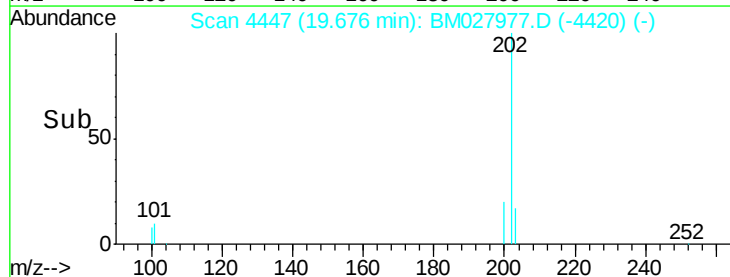
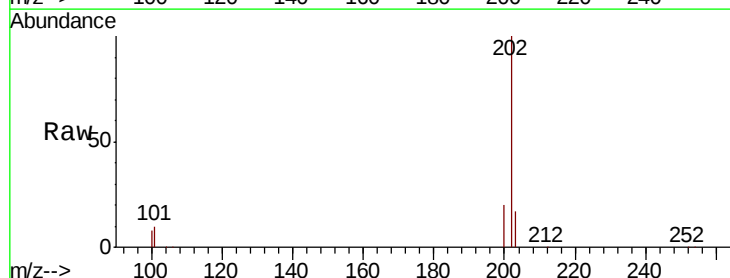
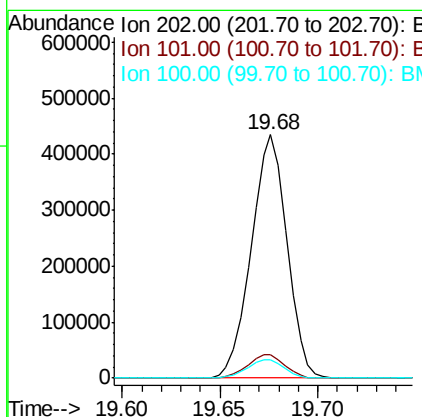
RT: 19.68 min Scan# 4447

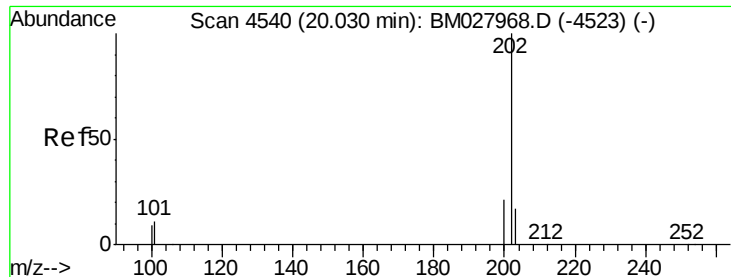
Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 552373 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.8   | 0.0   | 29.3   |
| 100       | 7.6   | 0.0   | 27.4   |





#17

Pvrene

Concen: 25.807 ng/ul

RT: 20.03 min Scan# 4541

Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

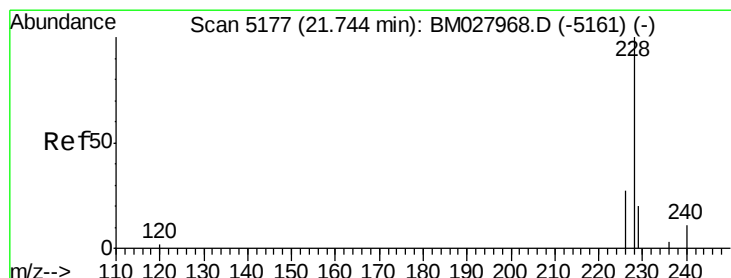
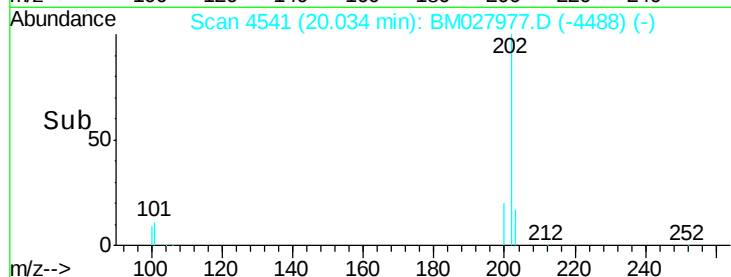
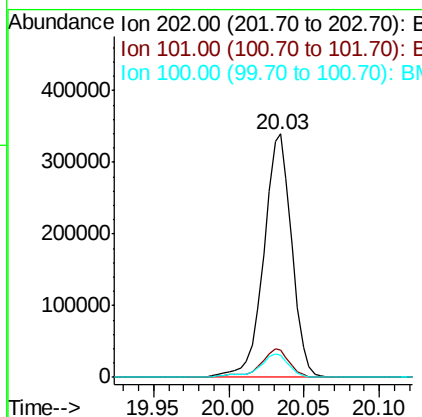
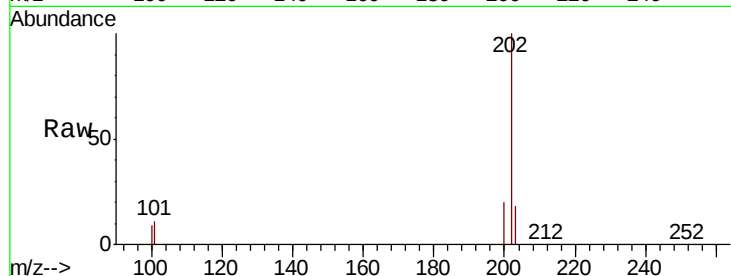
ClientSampled :

C0B12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 440242 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.0  | 8.2   | 12.2   |
| 100       | 9.1   | 6.9   | 10.3   |

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#18

Benzo(a)anthracene

Concen: 11.341 ng/ul

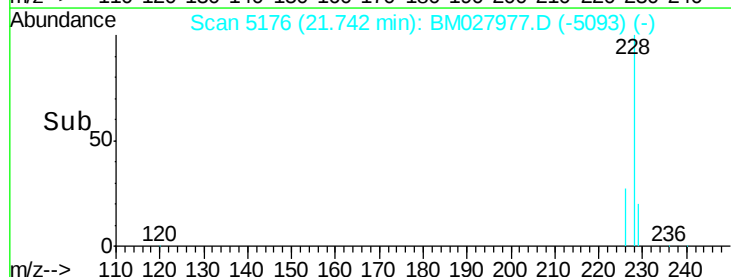
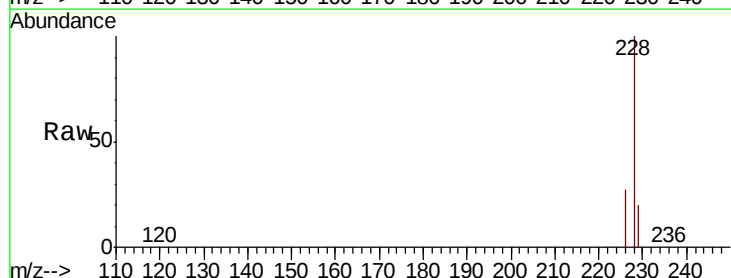
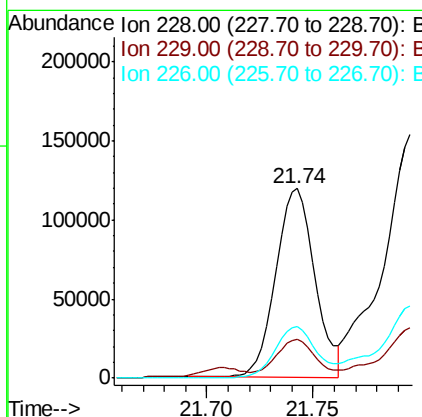
RT: 21.74 min Scan# 5176

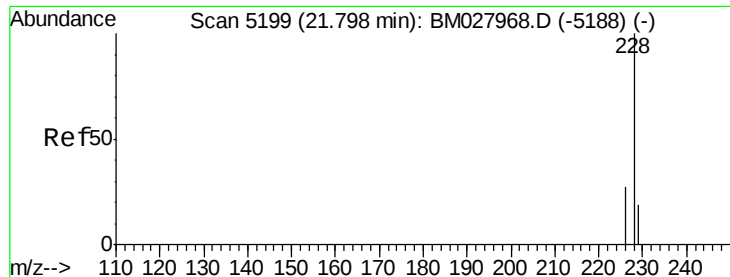
Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 153699 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.4  | 16.2  | 24.4   |
| 226       | 26.9  | 21.5  | 32.3   |





#19

Chrysene

Concen: 18.037 ng/ul

RT: 21.80 min Scan# 5198

Delta R.T. -0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

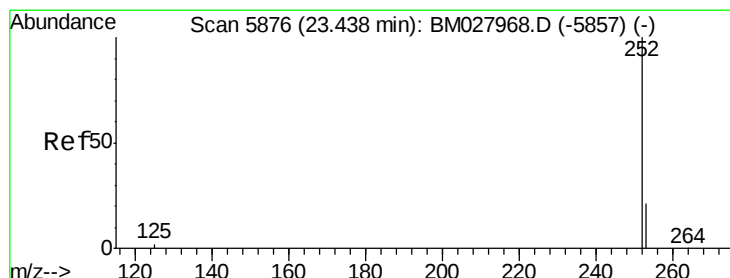
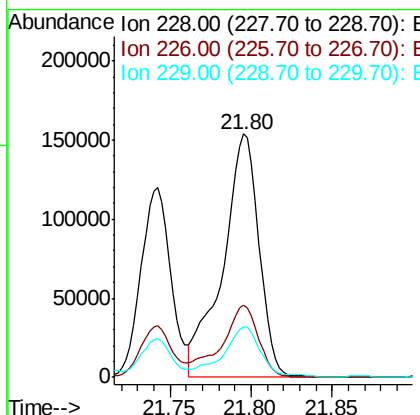
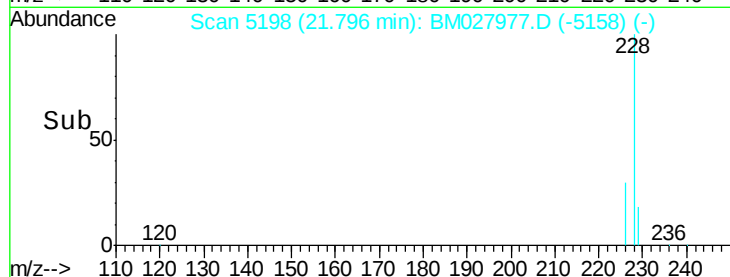
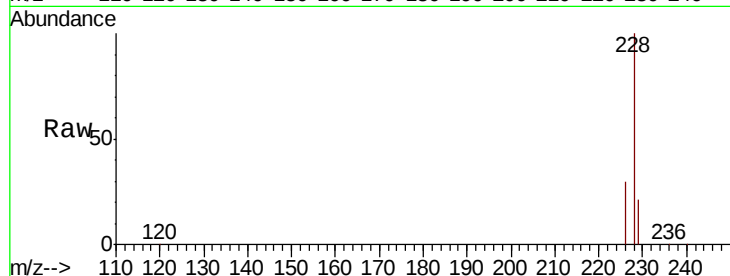
ClientSampleId :

C0B12

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 238107 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 29.7 | 24.1  | 36.1   |
| 229       | 20.9 | 16.6  | 24.8   |

Manual Integrations  
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#21

Benzo(b)fluoranthene

Concen: 21.350 ng/ul m

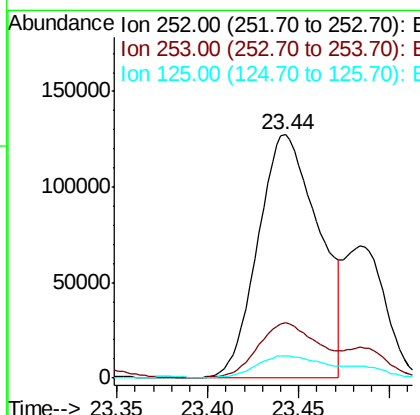
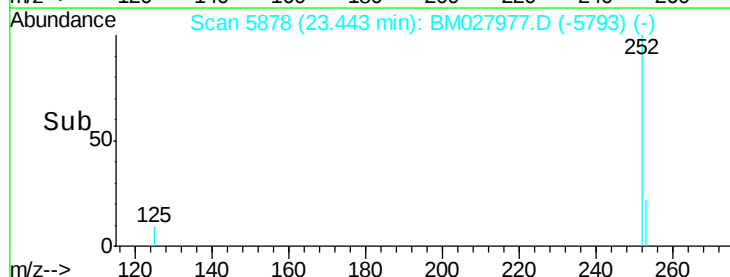
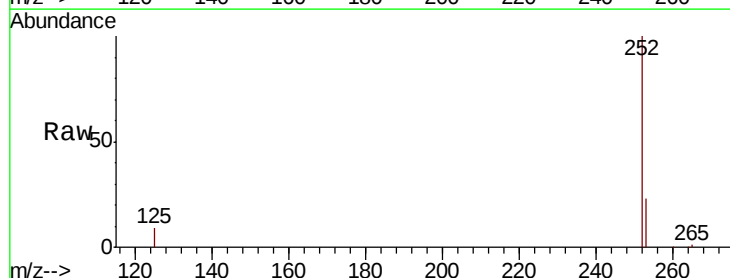
RT: 23.44 min Scan# 5878

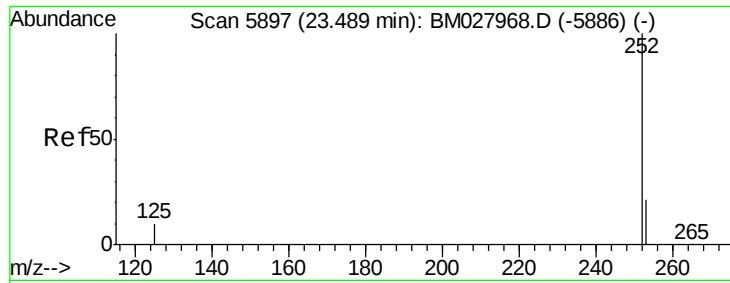
Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 295650 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.5 | 0.0   | 59.6   |
| 125       | 9.4  | 0.0   | 28.4   |





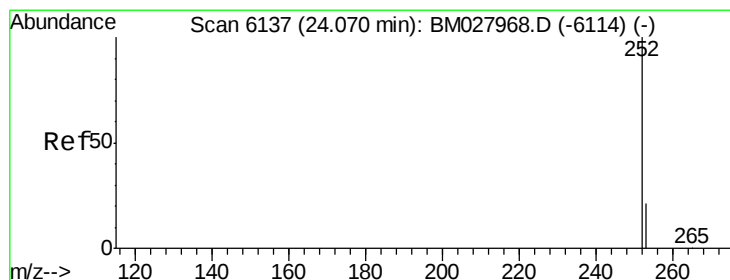
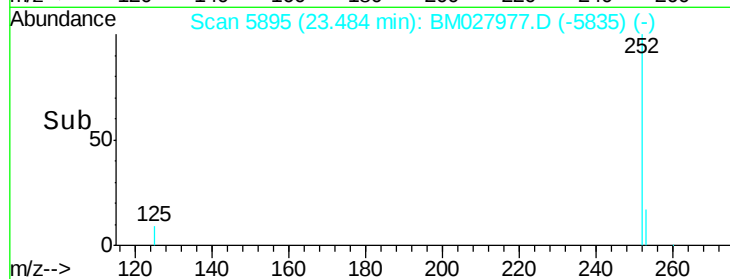
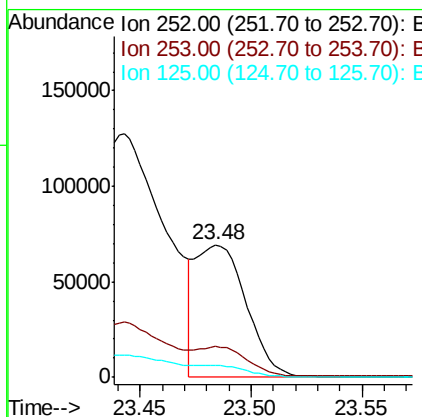
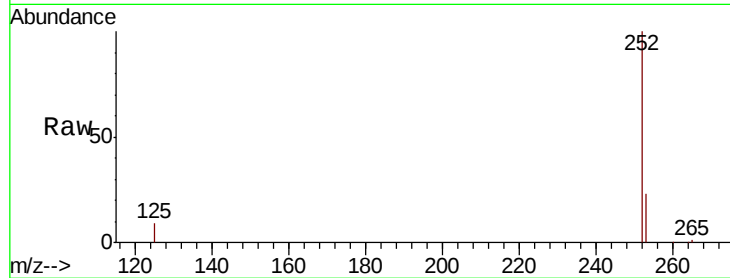
#22  
Benzo(k)fluoranthene  
Concen: 7.973 ng/ul m  
RT: 23.48 min Scan# 5895  
Delta R.T. -0.00 min  
Lab File: BM027977.D  
Acq: 25 Nov 2020 23:14

Instrument :  
BNA\_M  
ClientSampleId :  
C0B12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 23.2  | 34.8# |
| 125     | 9.0   | 11.8  | 17.6# |

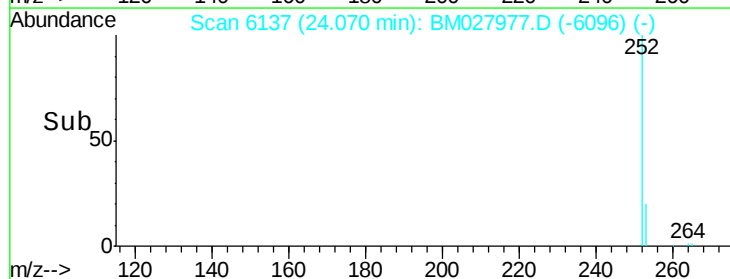
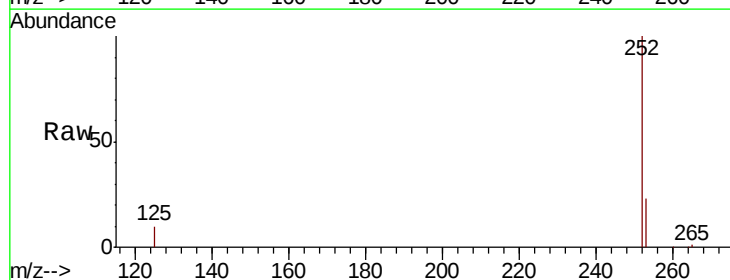
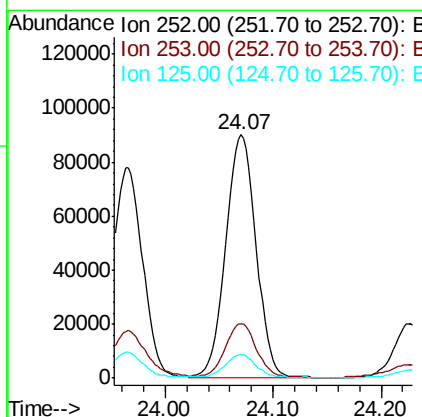
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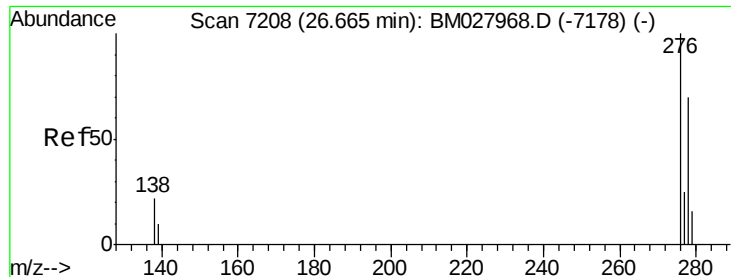
mohammad  
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#23  
Benzo(a)pyrene  
Concen: 14.490 ng/ul  
RT: 24.07 min Scan# 6137  
Delta R.T. 0.00 min  
Lab File: BM027977.D  
Acq: 25 Nov 2020 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 25.2  | 37.8# |
| 125     | 9.6   | 13.8  | 20.6# |





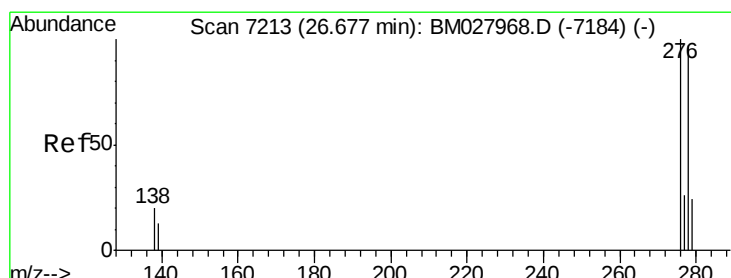
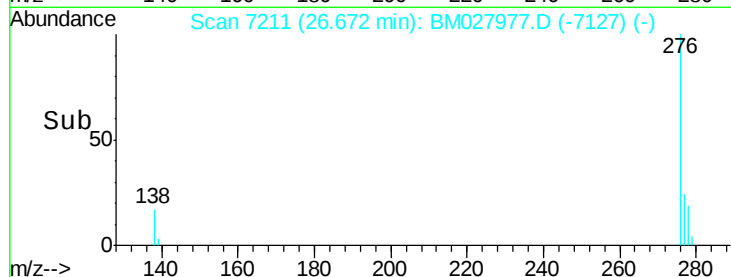
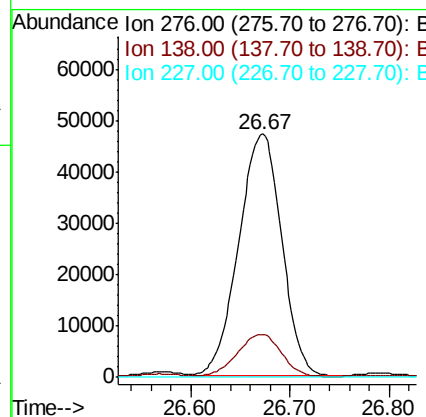
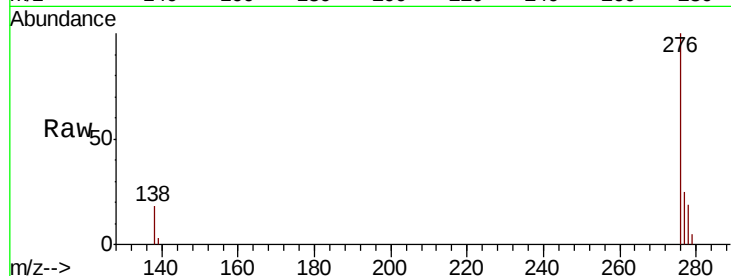
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.806 ng/ul  
 RT: 26.67 min Scan# 7211  
 Delta R.T. 0.00 min  
 Lab File: BM027977.D  
 Acq: 25 Nov 2020 23:14

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.8  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |

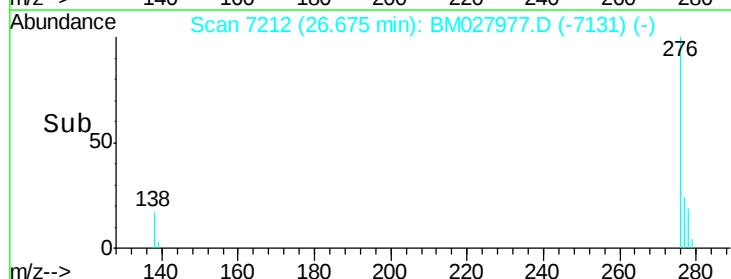
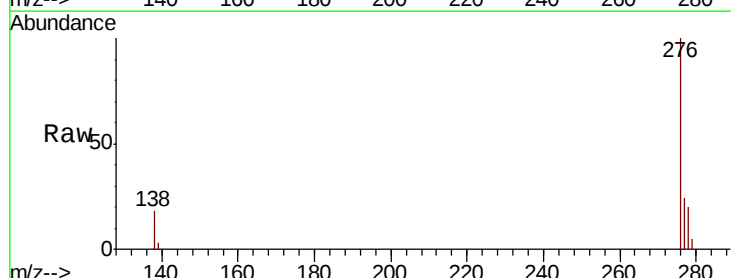
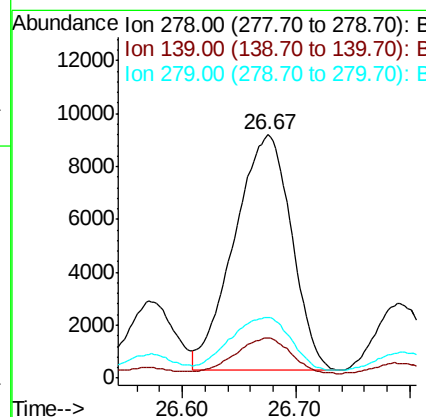
Manual Integrations  
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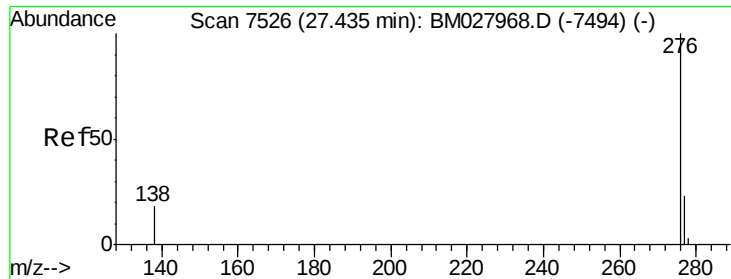
mohammad  
 11/27/2020 11:44:15 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 2.848 ng/ul m  
 RT: 26.67 min Scan# 7212  
 Delta R.T. -0.00 min  
 Lab File: BM027977.D  
 Acq: 25 Nov 2020 23:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.5  | 14.8  | 22.2  |
| 279     | 24.8  | 25.8  | 38.6# |





#26

Benzo(a,h,i)perylene

Concen: 11.977 ng/ul

RT: 27.44 min Scan# 7529

Delta R.T. 0.00 min

Lab File: BM027977.D

Acq: 25 Nov 2020 23:14

Instrument :

BNA\_M

ClientSampleId :

C0B12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 131730 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.4  | 17.4  | 26.2   |
| 277       | 24.2  | 22.5  | 33.7   |

Manual Integrations  
APPROVED

mohammad  
11/27/2020 11:44:15 AM

