

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112020\  
 Data File : BM027889.D  
 Acq On : 21 Nov 2020 19:55  
 Operator : JU/CG  
 Sample : L4711-20  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B05

Manual Integrations  
 APPROVED

mohammad  
 11/24/2020 8:59:03 AM

Quant Time: Nov 23 04:37:06 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 : Mon Nov 23 04:04:52 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.33  | 152  | 702      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.17 | 136  | 2932     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.95 | 164  | 1923     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.66 | 188  | 4058     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.77 | 240  | 2981     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.18 | 264  | 2471     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.73 | 152  | 708      | 0.14   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.65 | 212  | 1925     | 0.18   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.22 | 128  | 637      | 0.072  | ng/ul# | 77       |
| 5) 2-Methylnaphthalene      | 12.80 | 142  | 475      | 0.079  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.67 | 152  | 687      | 0.073  | ng/ul# | 78       |
| 8) Acenaphthene             | 15.01 | 153  | 2960     | 0.421  | ng/ul  | 99       |
| 9) Fluorene                 | 15.98 | 166  | 3769     | 0.462  | ng/ul  | 99       |
| 11) Pentachlorophenol       | 17.30 | 266  | 102      | 0.074  | ng/ul  | 87       |
| 12) Phenanthrene            | 17.70 | 178  | 106088   | 8.276  | ng/ul  | 97       |
| 13) Anthracene              | 17.79 | 178  | 22488    | 1.819  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.68 | 202  | 264289   | 18.594 | ng/ul  | 99       |
| 17) Pyrene                  | 20.04 | 202  | 211974   | 14.001 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.75 | 228  | 99462    | 8.270  | ng/ul  | 100      |
| 19) Chrysene                | 21.80 | 228  | 102495   | 8.749  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.45 | 252  | 103411m  | 9.958  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.49 | 252  | 39927m   | 3.926  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.08 | 252  | 68898    | 7.588  | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.69 | 276  | 41115    | 4.182  | ng/ul# | 95       |
| 25) Dibenzo(a,h)anthracene  | 26.69 | 278  | 10751    | 1.313  | ng/ul  | 94       |
| 26) Benzo(g,h,i)perylene    | 27.46 | 276  | 33863    | 4.106  | ng/ul  | 93       |

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

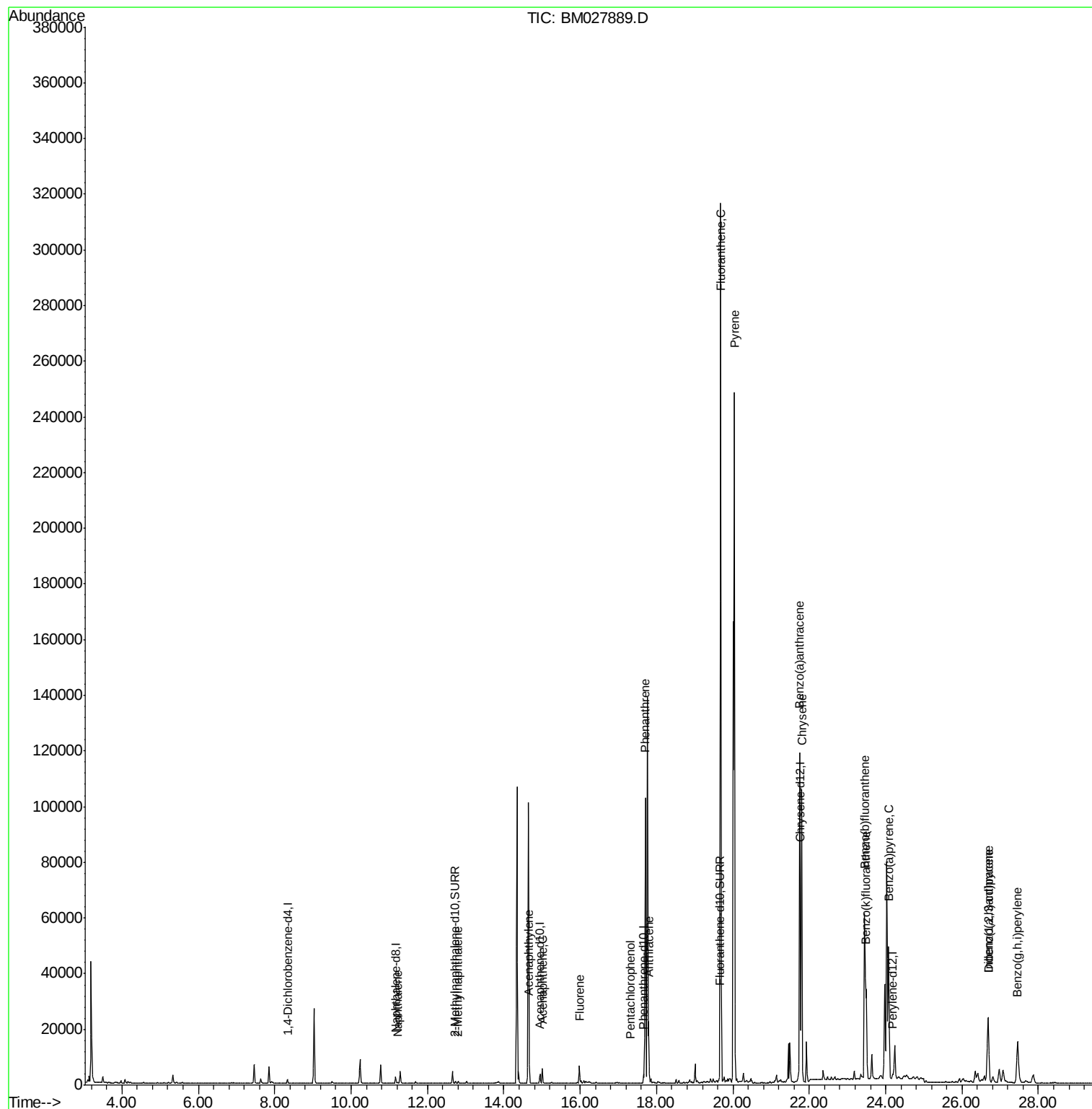
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112020\  
Data File : BM027889.D  
Acq On : 21 Nov 2020 19:55  
Operator : JU/CG  
Sample : L4711-20  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

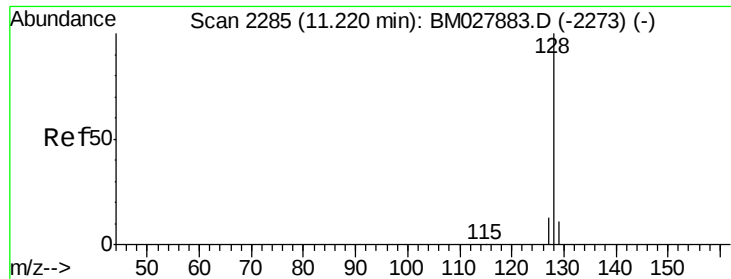
Instrument :  
BNA\_M  
ClientSampleId :  
C0B05

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11/24/2020 8:59:03 AM

Quant Time: Nov 23 04:37:06 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 : Mon Nov 23 04:04:52 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.072 ng/ul

RT: 11.22 min Scan# 2284

Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

Instrument :

BNA\_M

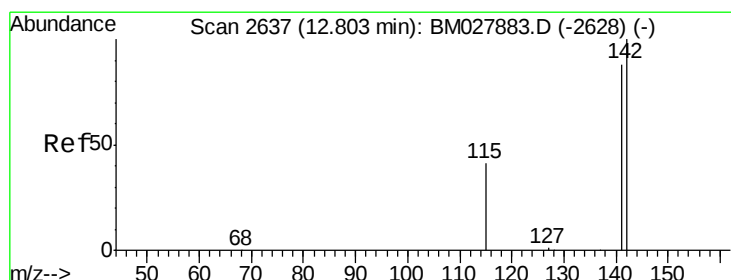
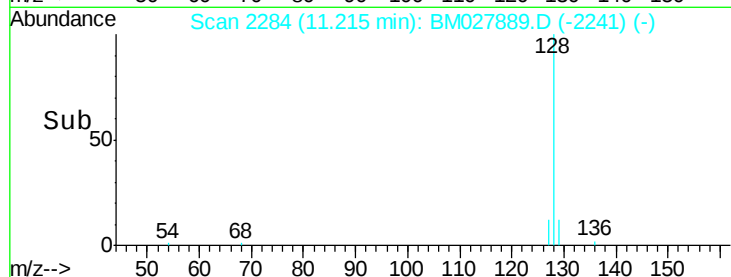
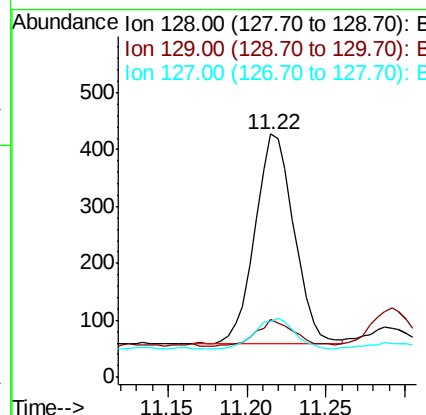
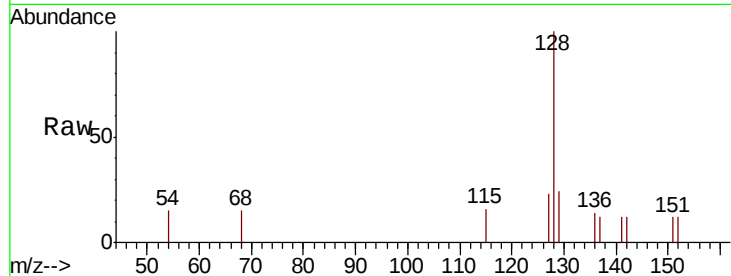
ClientSampleId :

C0B05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 637   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 23.8  | 10.4  | 15.6# |
| 127      | 22.7  | 12.0  | 18.0# |

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#5

2-Methylnaphthalene

Concen: 0.079 ng/ul

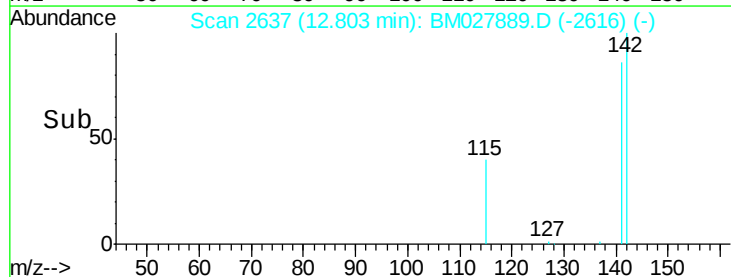
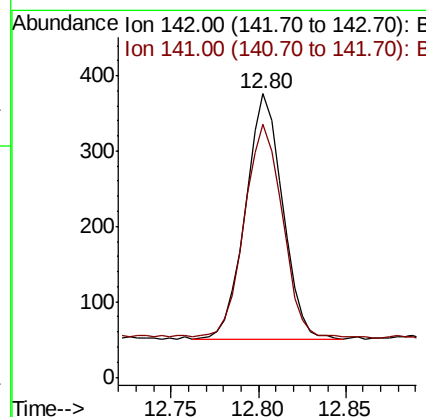
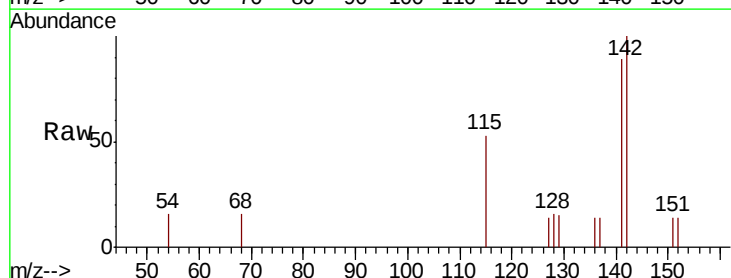
RT: 12.80 min Scan# 2637

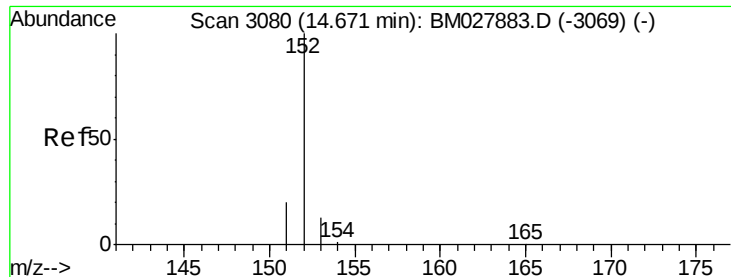
Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 475   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 90.7  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.073 ng/ul

RT: 14.67 min Scan# 3080

Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

Instrument :

BNA\_M

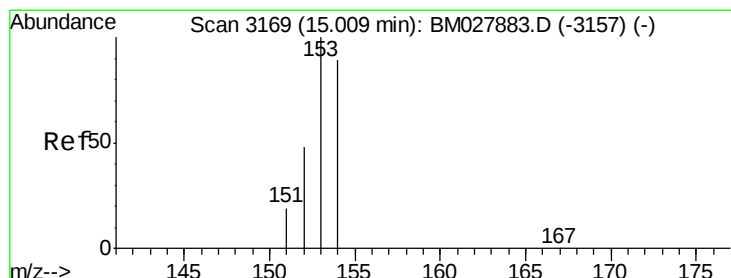
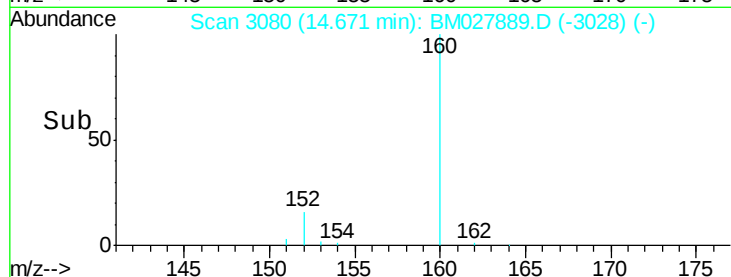
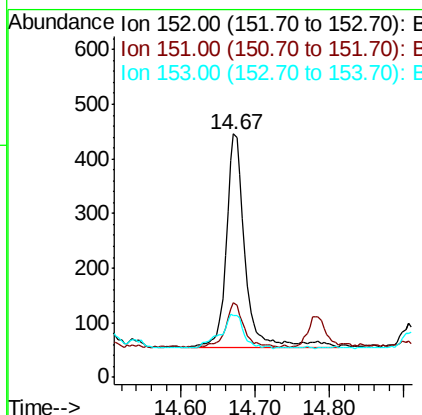
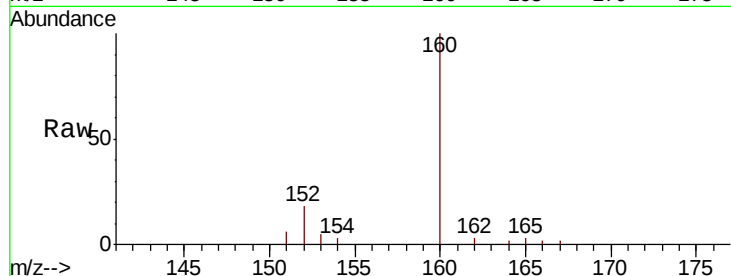
ClientSampleId :

C0B05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 687   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 30.5  | 17.1  | 25.7# |
| 153       | 25.6  | 12.0  | 18.0# |

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#8

Acenaphthene

Concen: 0.421 ng/ul

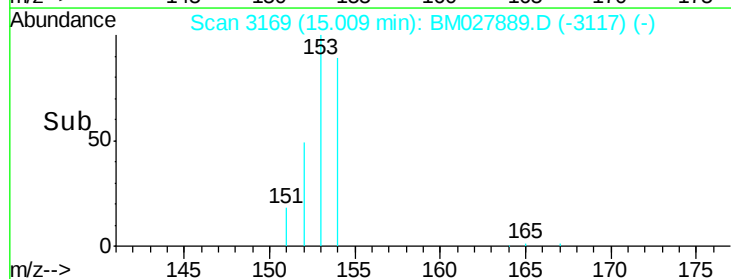
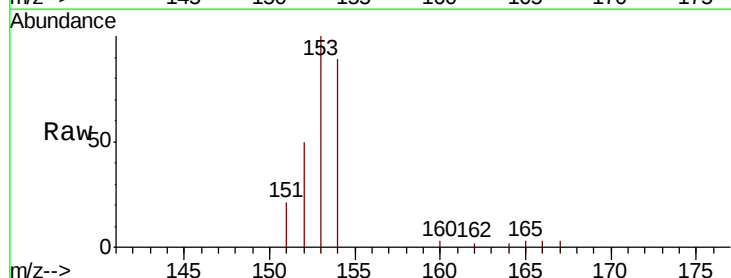
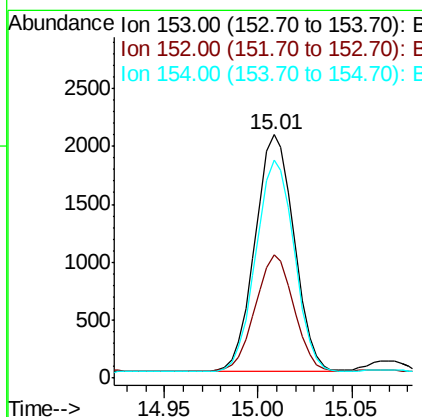
RT: 15.01 min Scan# 3169

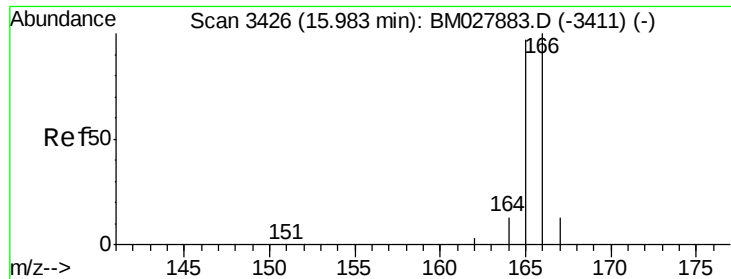
Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2960  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.5  | 39.0  | 58.6  |
| 154       | 89.5  | 71.6  | 107.4 |





#9

Fluorene

Concen: 0.462 ng/ul

RT: 15.98 min Scan# 3425

Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

Instrument :

BNA\_M

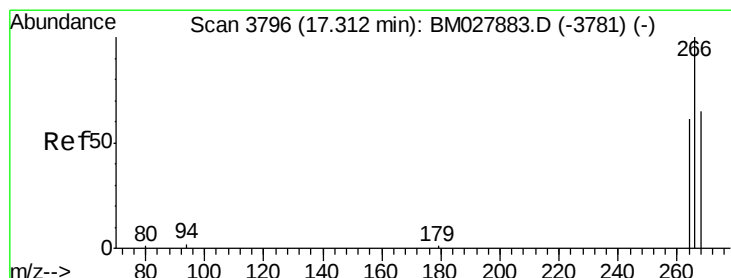
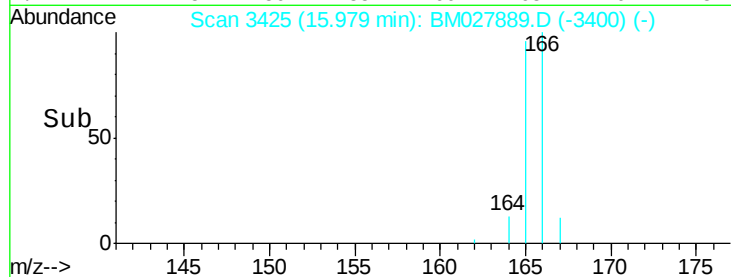
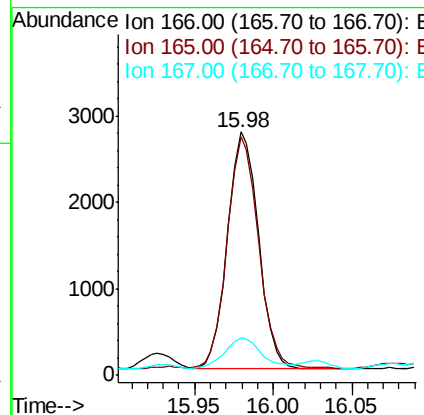
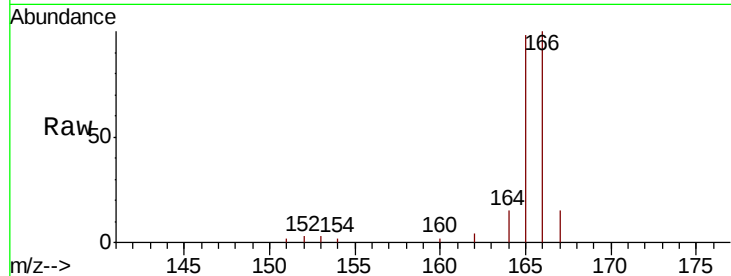
ClientSampleId :

C0B05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 3769  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.0  | 78.1  | 117.1 |
| 167      | 15.4  | 11.8  | 17.8  |

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#11

Pentachlorophenol

Concen: 0.074 ng/ul

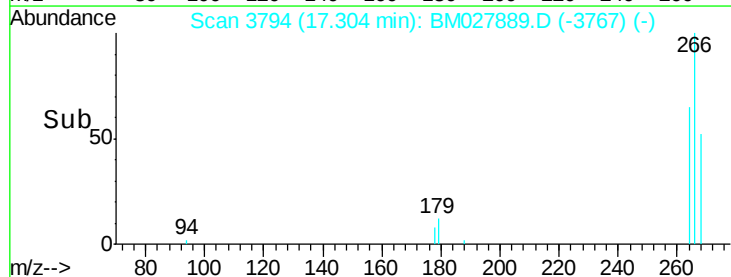
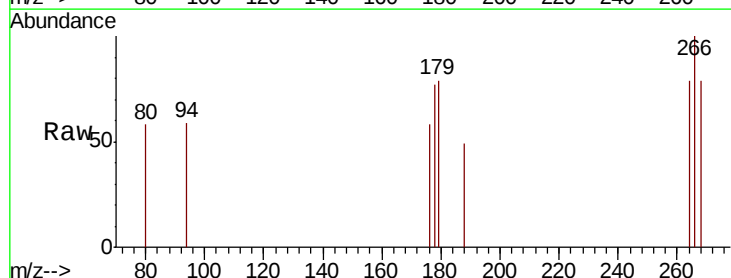
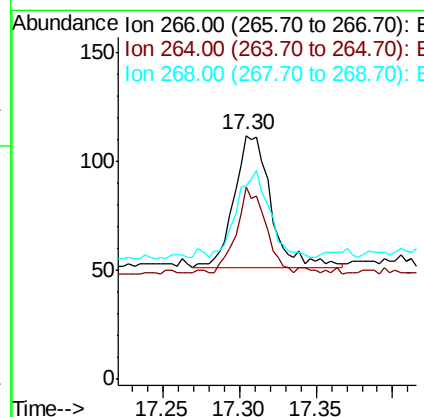
RT: 17.30 min Scan# 3794

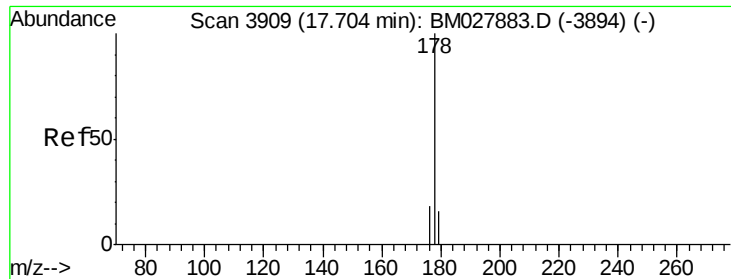
Delta R.T. -0.01 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 266   | Resp: | 102   |
| Ion      | Ratio | Lower | Upper |
| 266      | 100   |       |       |
| 264      | 50.0  | 49.6  | 74.4  |
| 268      | 56.9  | 52.1  | 78.1  |





#12

Phenanthrene

Concen: 8.276 ng/ul

RT: 17.70 min Scan# 3909

Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

Instrument :

BNA\_M

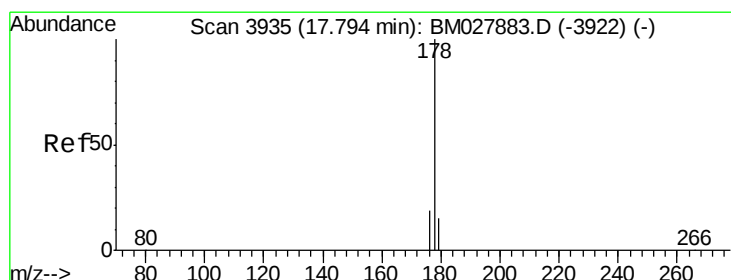
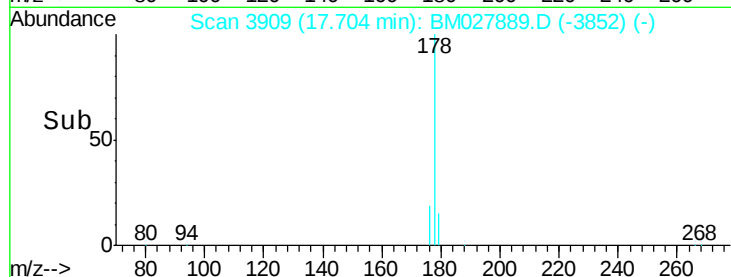
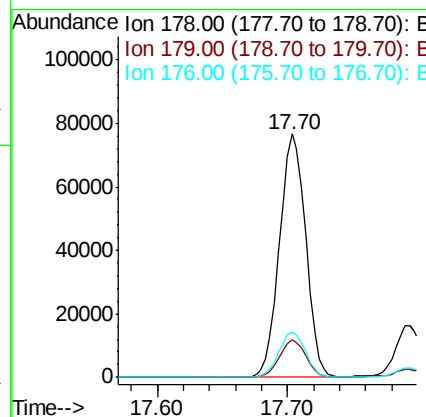
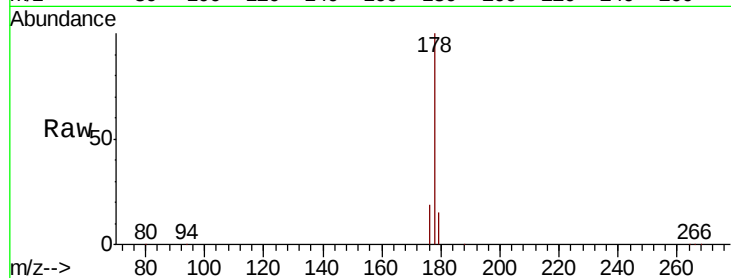
ClientSampleId :

C0B05

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 178   | Resp: | 106088 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 179      | 15.4  | 13.6  | 20.4   |
| 176      | 18.8  | 16.1  | 24.1   |

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#13

Anthracene

Concen: 1.819 ng/ul

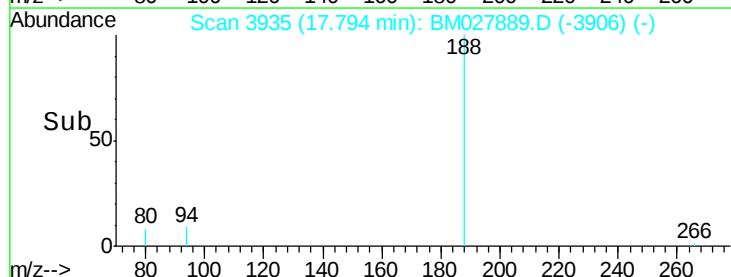
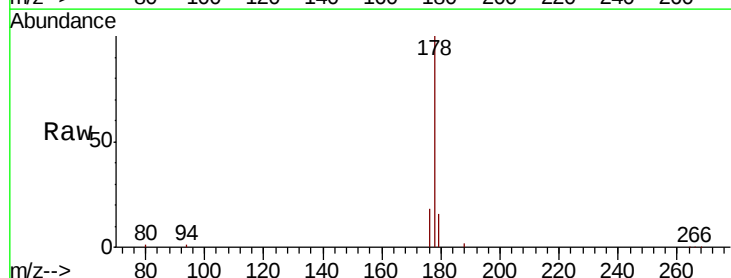
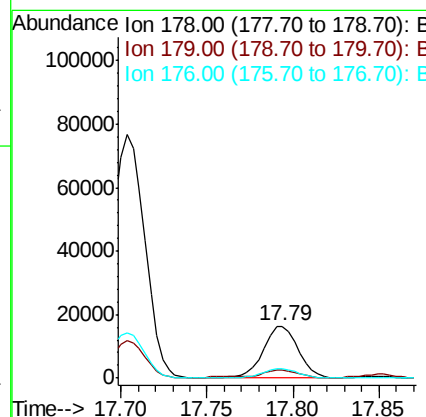
RT: 17.79 min Scan# 3935

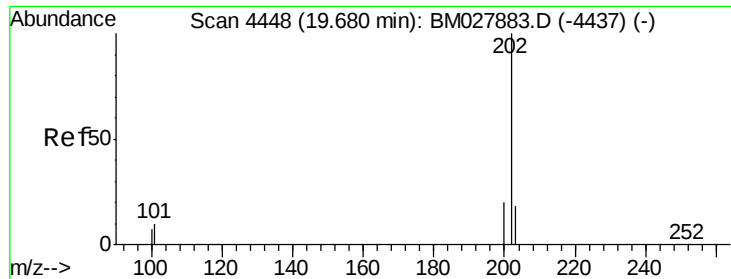
Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 22488 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 15.8  | 13.4  | 20.2  |
| 176      | 18.5  | 15.0  | 22.6  |





#15

Fluoranthene

Concen: 18.594 ng/ul

RT: 19.68 min Scan# 4449

Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

Instrument :

BNA\_M

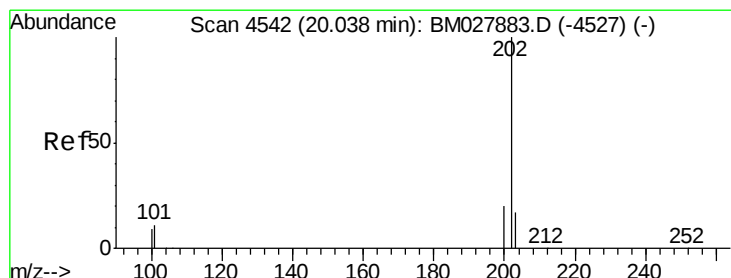
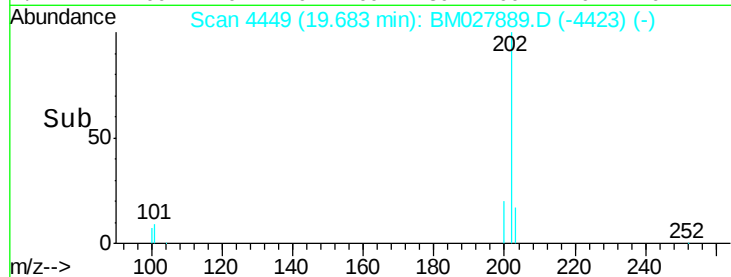
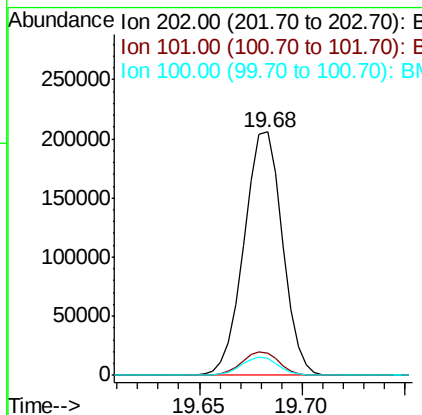
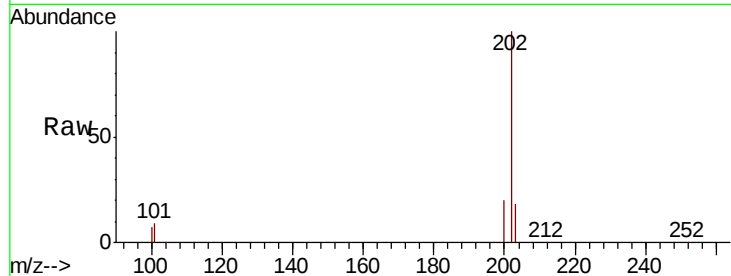
ClientSampleId :

C0B05

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 264289 |       |       |
| 101     | 9.0   | 0.0    | 29.3  |       |
| 100     | 7.0   | 0.0    | 27.4  |       |

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#17

Pyrene

Concen: 14.001 ng/ul

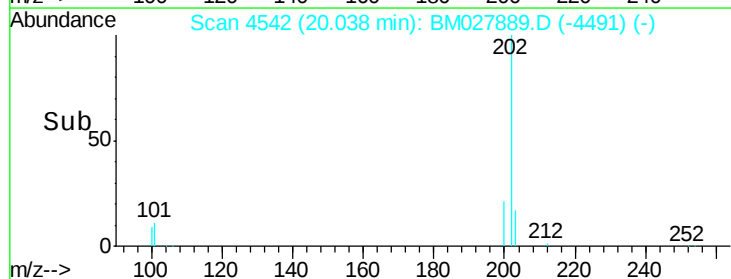
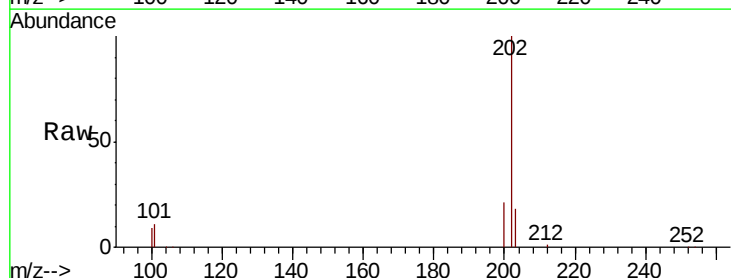
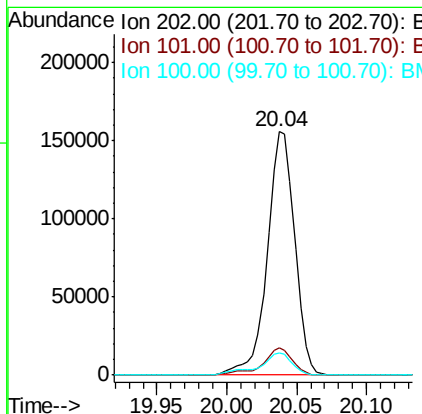
RT: 20.04 min Scan# 4542

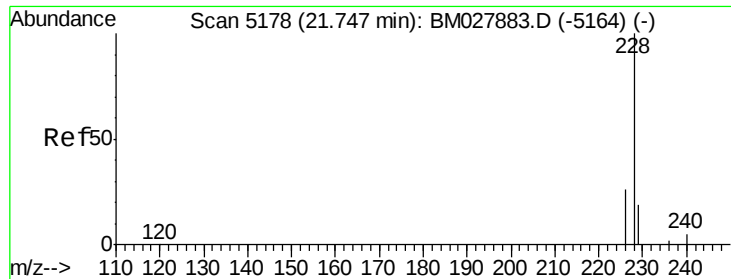
Delta R.T. -0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 211974 |       |       |
| 101     | 11.0  | 8.2    | 12.2  |       |
| 100     | 9.2   | 6.9    | 10.3  |       |





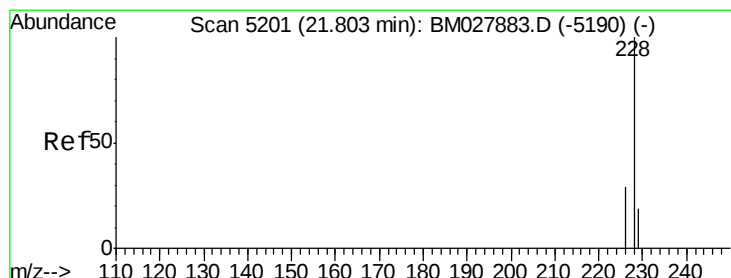
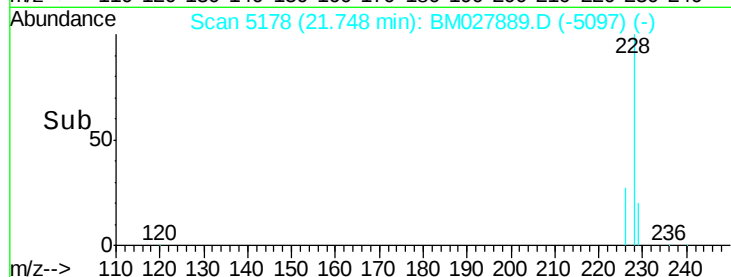
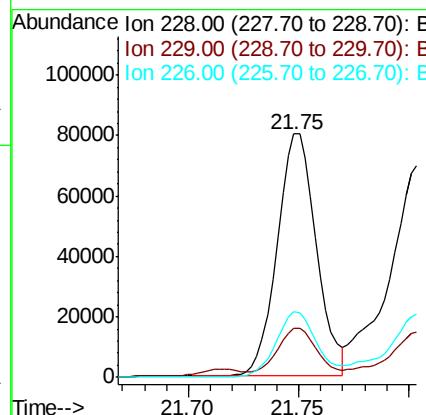
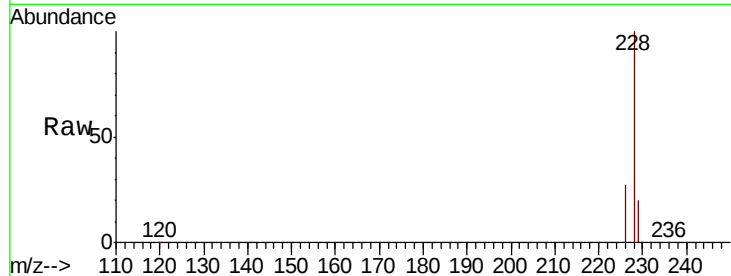
#18  
Benzo(a)anthracene  
Concen: 8.270 ng/ul  
RT: 21.75 min Scan# 5178  
Delta R.T. -0.00 min  
Lab File: BM027889.D  
Acq: 21 Nov 2020 19:55

Instrument :  
BNA\_M  
ClientSampleId :  
C0B05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.1  | 16.2  | 24.4  |
| 226     | 26.8  | 21.5  | 32.3  |

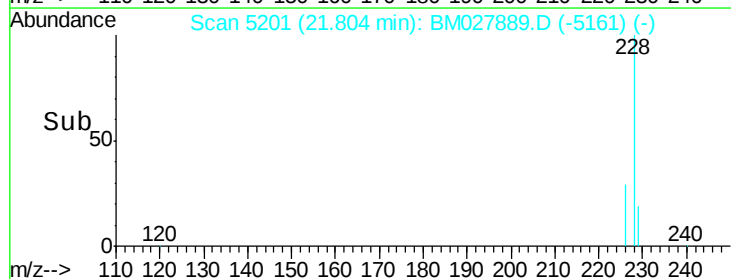
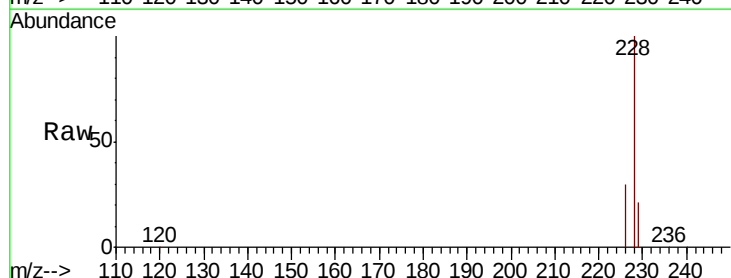
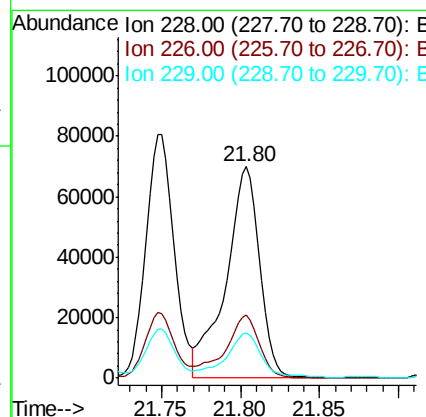
Manual Integrations  
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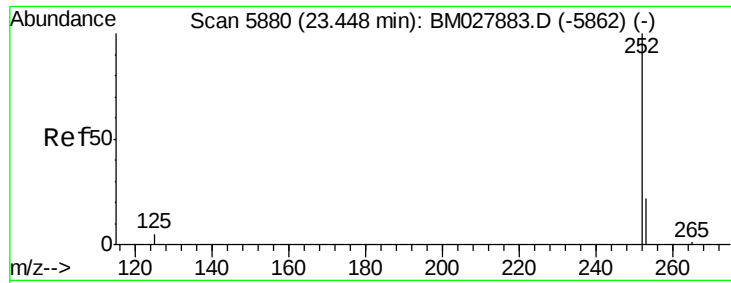
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11/24/2020 8:59:03 AM



#19  
Chrysene  
Concen: 8.749 ng/ul  
RT: 21.80 min Scan# 5201  
Delta R.T. -0.00 min  
Lab File: BM027889.D  
Acq: 21 Nov 2020 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.1  | 36.1  |
| 229     | 21.4  | 16.6  | 24.8  |





#21

Benzo(b)fluoranthene

Concen: 9.958 ng/ul m

RT: 23.45 min Scan# 5881

Delta R.T. 0.00 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

Instrument :

BNA\_M

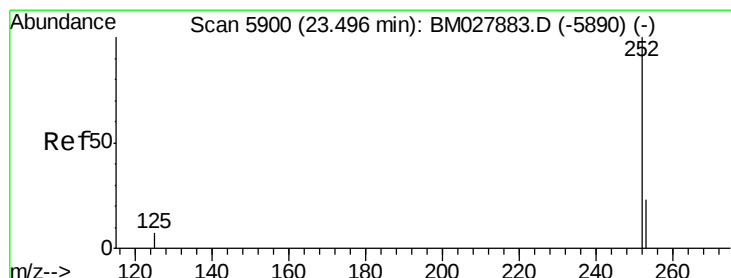
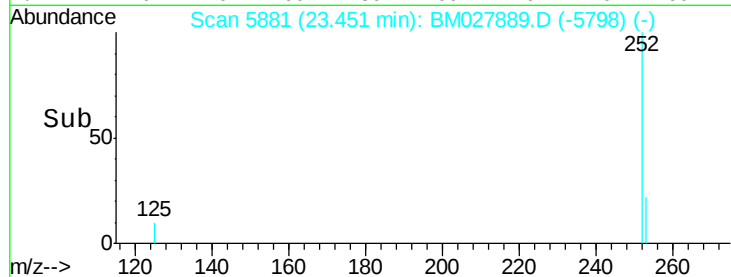
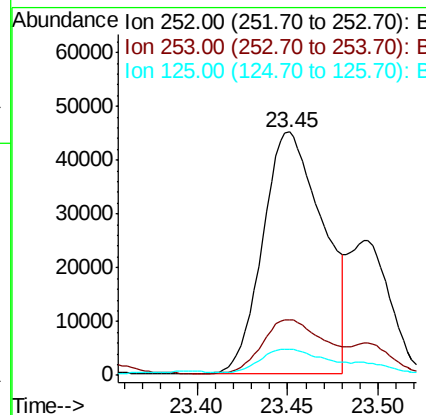
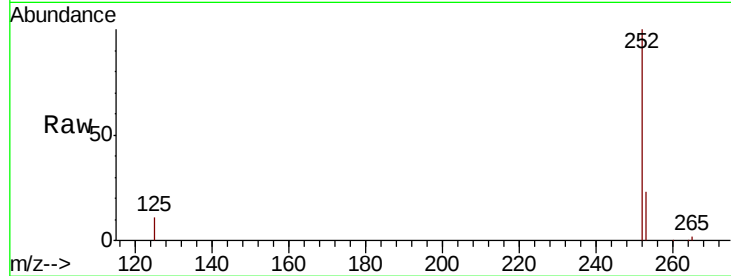
ClientSampleId :

C0B05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 103411 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 0.0   | 59.6   |
| 125       | 10.8  | 0.0   | 28.4   |

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#22

Benzo(k)fluoranthene

Concen: 3.926 ng/ul m

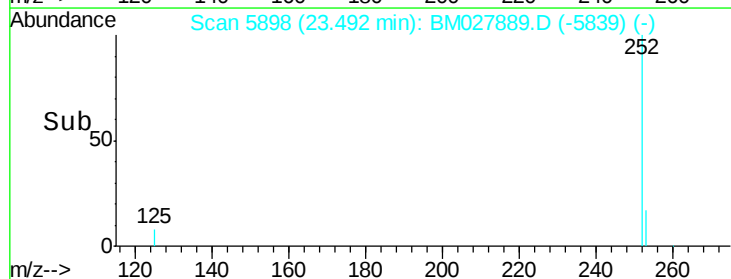
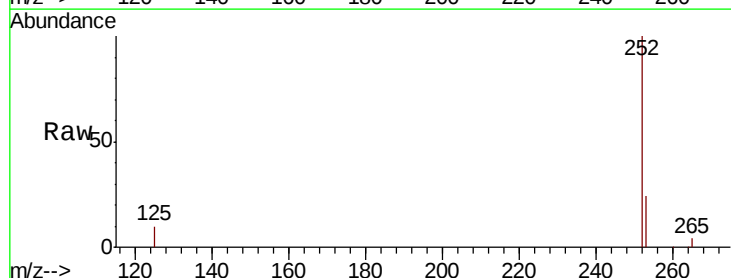
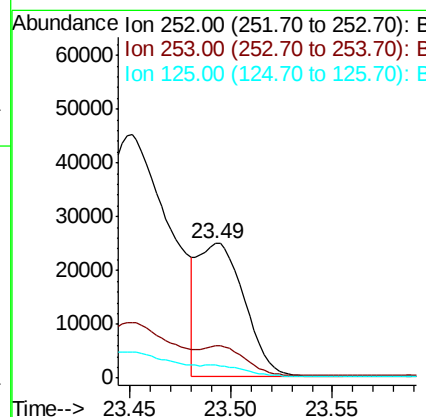
RT: 23.49 min Scan# 5898

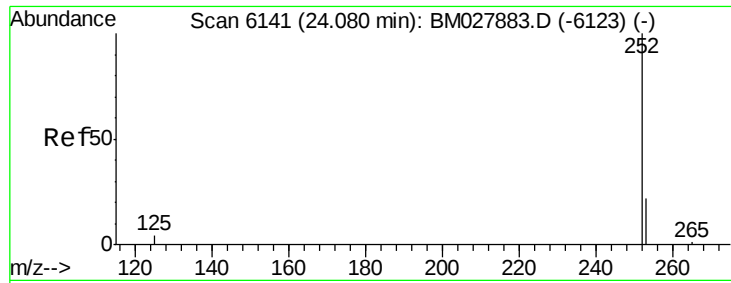
Delta R.T. -0.01 min

Lab File: BM027889.D

Acq: 21 Nov 2020 19:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 39927 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.8  | 23.2  | 34.8  |
| 125       | 9.5   | 11.8  | 17.6# |





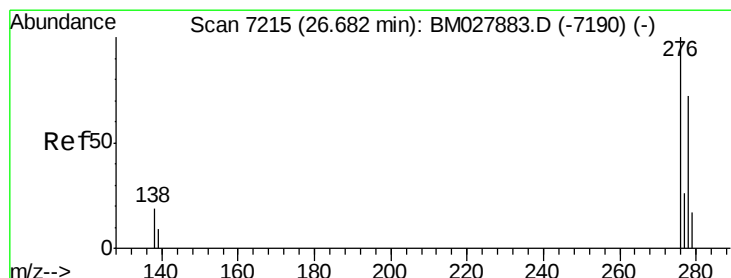
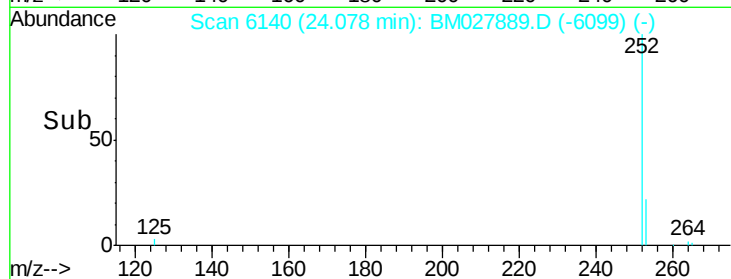
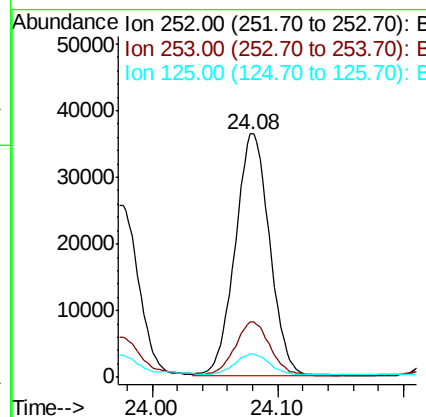
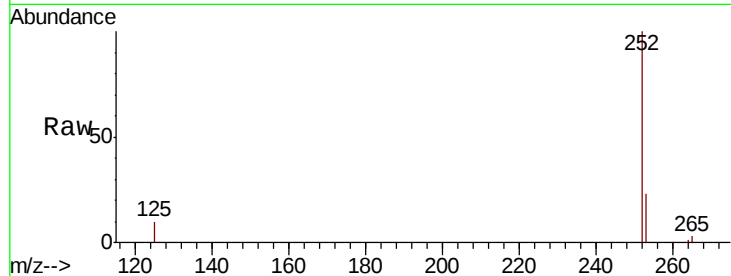
#23  
Benzo(a)pyrene  
Concen: 7.588 ng/ul  
RT: 24.08 min Scan# 6140  
Delta R.T. -0.00 min  
Lab File: BM027889.D  
Acq: 21 Nov 2020 19:55

Instrument :  
BNA\_M  
ClientSampleId :  
C0B05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 25.2  | 37.8# |
| 125     | 9.6   | 13.8  | 20.6# |

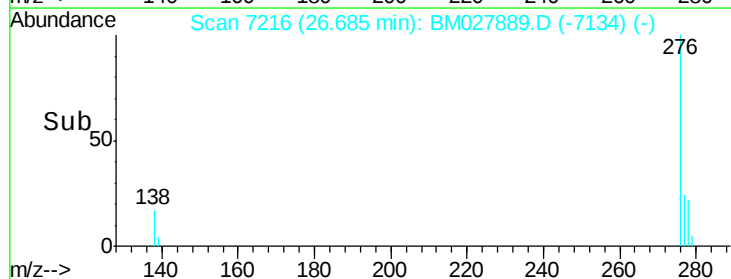
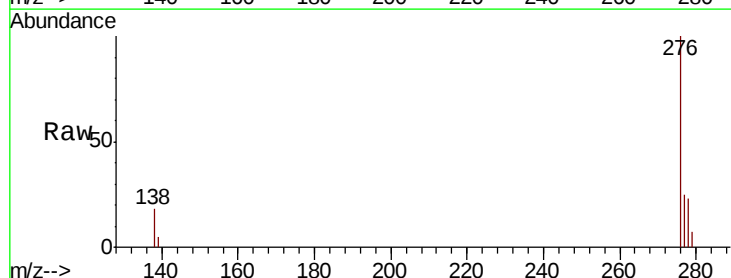
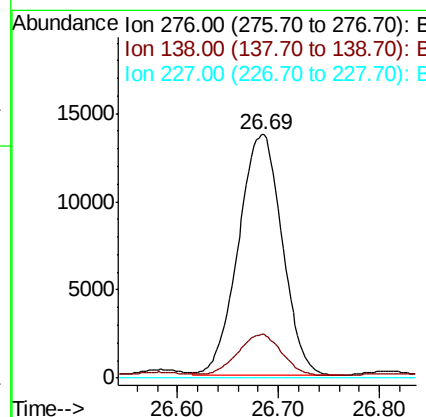
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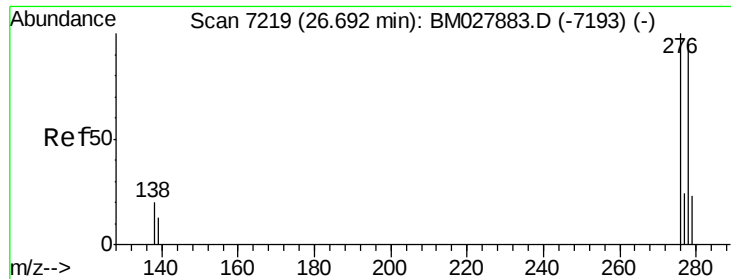
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 4.182 ng/ul  
RT: 26.69 min Scan# 7216  
Delta R.T. -0.00 min  
Lab File: BM027889.D  
Acq: 21 Nov 2020 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.2  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |





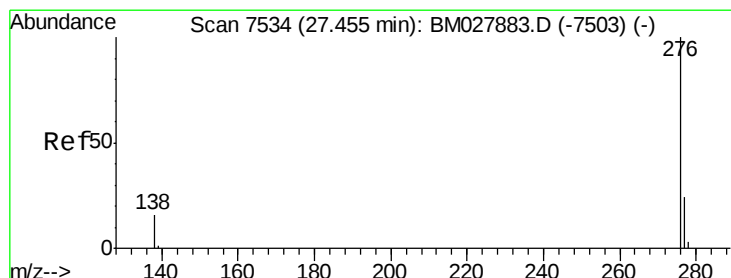
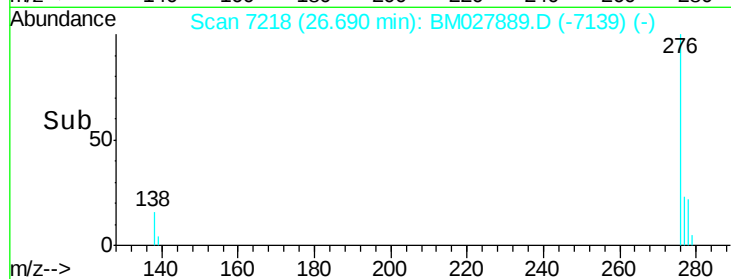
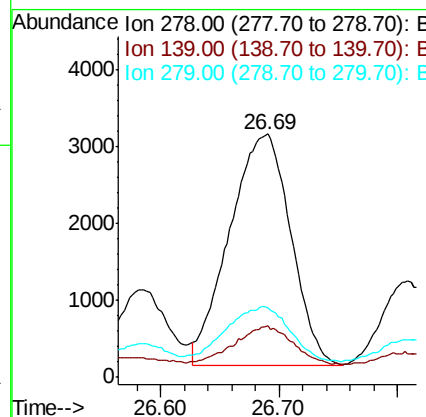
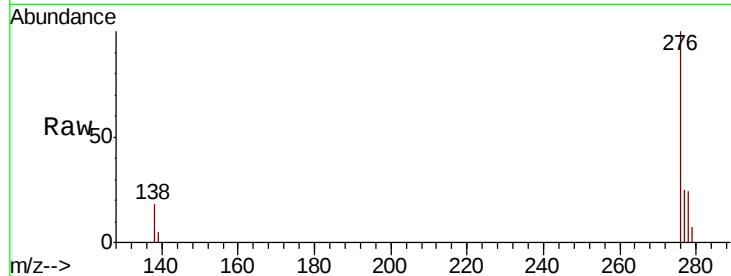
#25  
Dibenzo(a,h)anthracene  
Concen: 1.313 ng/ul  
RT: 26.69 min Scan# 7218  
Delta R.T. -0.01 min  
Lab File: BM027889.D  
Acq: 21 Nov 2020 19:55

Instrument :  
BNA\_M  
ClientSampleId :  
C0B05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.0  | 14.8  | 22.2  |
| 279     | 28.5  | 25.8  | 38.6  |

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#26  
Benzo(g,h,i)perylene  
Concen: 4.106 ng/ul  
RT: 27.46 min Scan# 7535  
Delta R.T. -0.00 min  
Lab File: BM027889.D  
Acq: 21 Nov 2020 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.1  | 17.4  | 26.2  |
| 277     | 24.5  | 22.5  | 33.7  |

