

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
 Data File : BM027969.D  
 Acq On : 25 Nov 2020 18:24  
 Operator : JU/CG  
 Sample : L4711-01DL 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B36DL

Manual Integrations  
 APPROVED

mohammad  
 11/27/2020 11:43:49 AM

Quant Time: Nov 26 00:55:24 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  | 1022     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.16 | 136  | 4039     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.94 | 164  | 2284     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.65 | 188  | 4040     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.76 | 240  | 2413     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.18 | 264  | 2277     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.72 | 152  | 327      | 0.05   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.64 | 212  | 457      | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.21 | 128  | 443      | 0.037  | ng/ul# | 70       |
| 5) 2-Methylnaphthalene      | 12.79 | 142  | 311      | 0.038  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.66 | 152  | 523      | 0.047  | ng/ul# | 76       |
| 8) Acenaphthene             | 15.00 | 153  | 2337     | 0.280  | ng/ul  | 99       |
| 9) Fluorene                 | 15.97 | 166  | 2871     | 0.296  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.70 | 178  | 57654    | 4.518  | ng/ul  | 96       |
| 13) Anthracene              | 17.78 | 178  | 6898     | 0.560  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.67 | 202  | 89677    | 6.337  | ng/ul  | 100      |
| 17) Pyrene                  | 20.03 | 202  | 67740    | 5.528  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 28681    | 2.946  | ng/ul  | 100      |
| 19) Chrysene                | 21.80 | 228  | 33413    | 3.523  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.44 | 252  | 39315m   | 4.108  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.48 | 252  | 14652m   | 1.564  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.07 | 252  | 25744    | 3.077  | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.67 | 276  | 17890    | 1.975  | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 26.67 | 278  | 4398     | 0.583  | ng/ul  | 97       |
| 26) Benzo(a,h,i)perylene    | 27.44 | 276  | 16985    | 2.235  | ng/ul  | 94       |

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

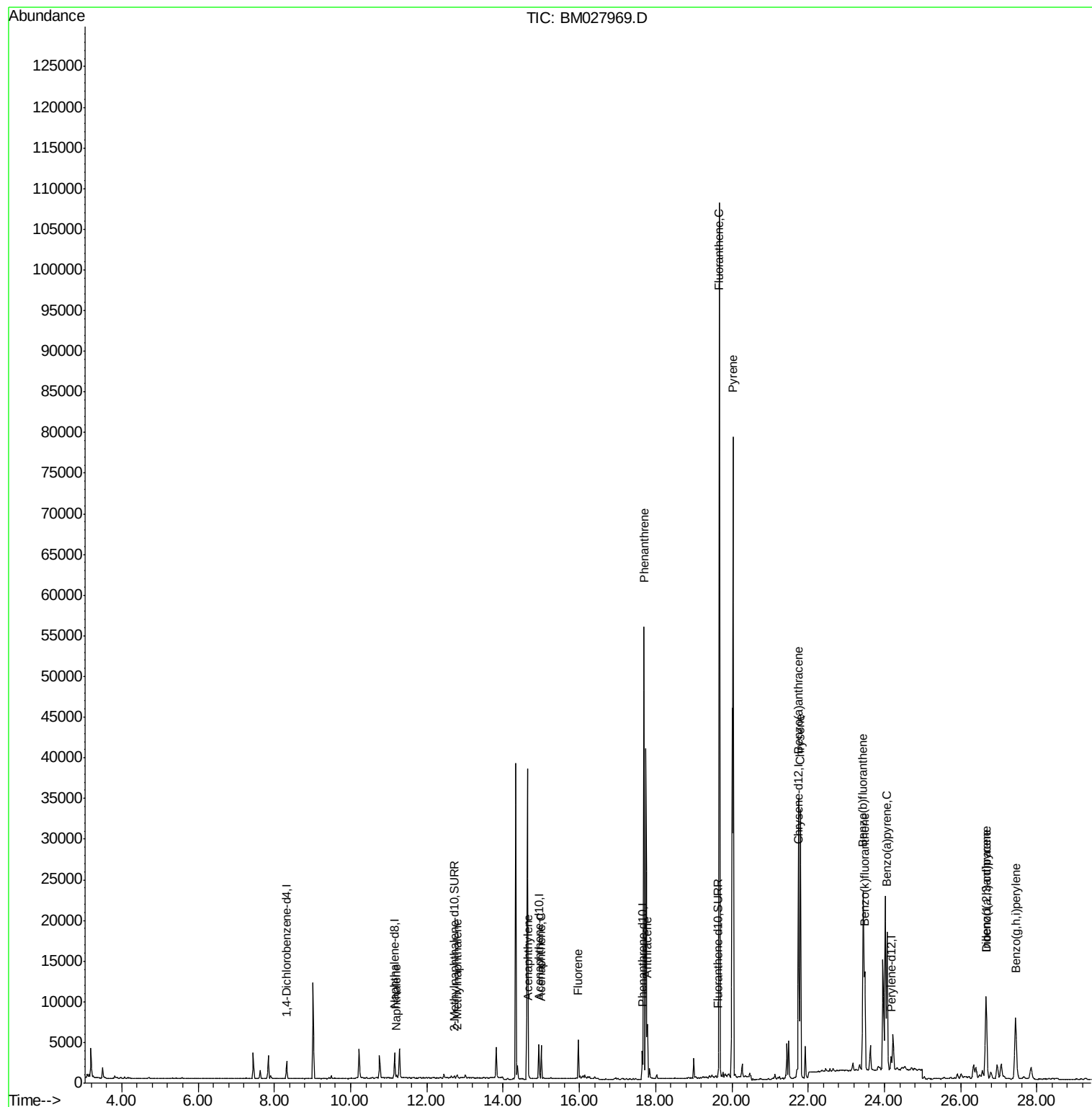
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
Data File : BM027969.D  
Acq On : 25 Nov 2020 18:24  
Operator : JU/CG  
Sample : L4711-01DL 5X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

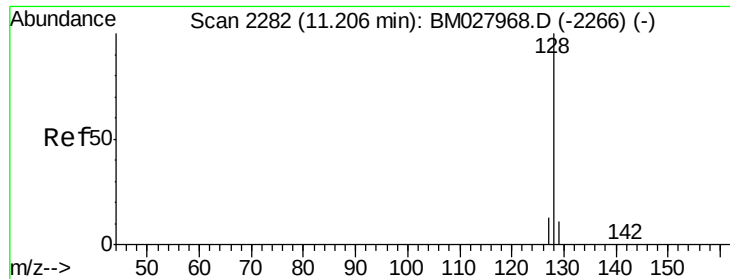
Instrument :  
BNA\_M  
ClientSampleId :  
C0B36DL

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Quant Time: Nov 26 00:55:24 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: 0.037 ng/ul

RT: 11.21 min Scan# 2282

Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

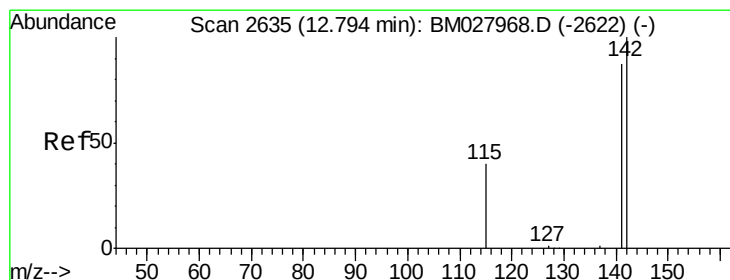
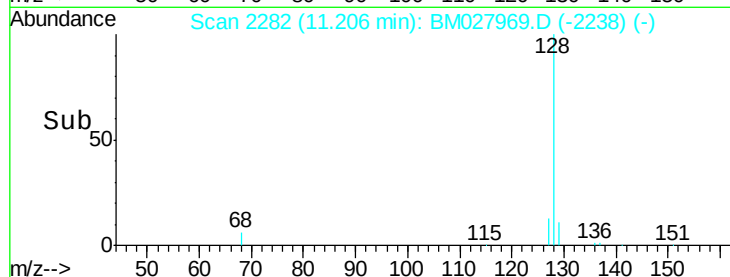
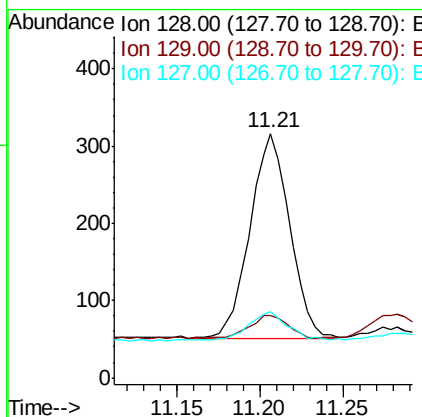
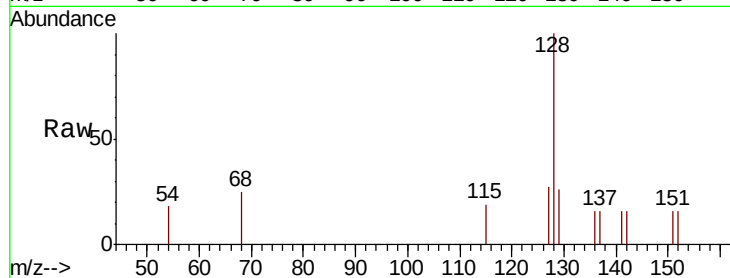
ClientSampleId :

C0B36DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 443   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 25.6  | 10.4  | 15.6# |
| 127      | 26.9  | 12.0  | 18.0# |

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#5

2-Methylnaphthalene

Concen: 0.038 ng/ul

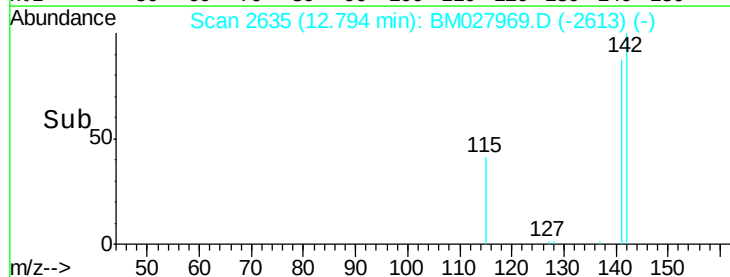
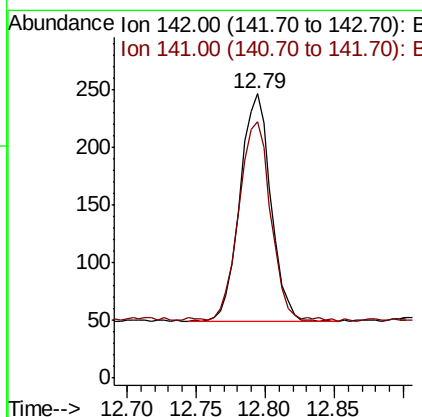
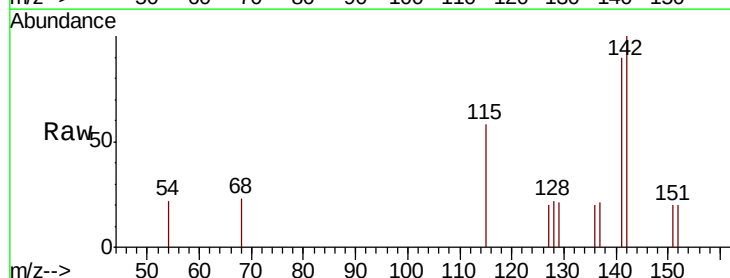
RT: 12.79 min Scan# 2635

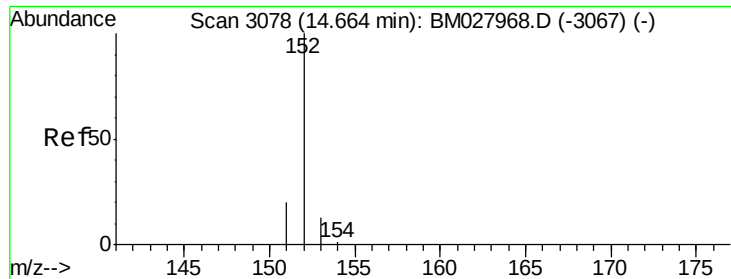
Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 311   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 89.7  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.047 ng/ul

RT: 14.66 min Scan# 3078

Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

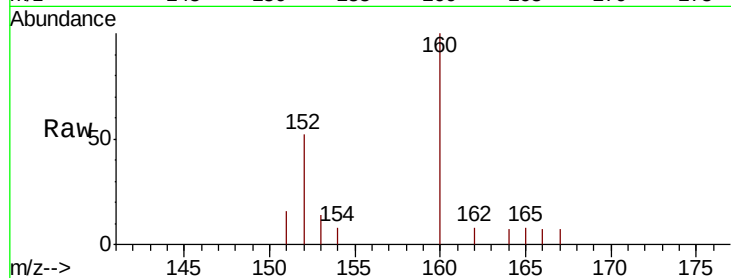
ClientSampleId :

C0B36DL

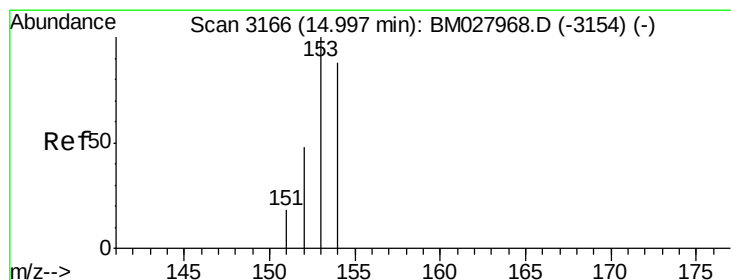
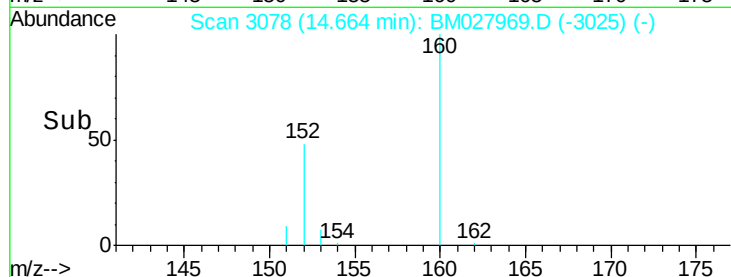
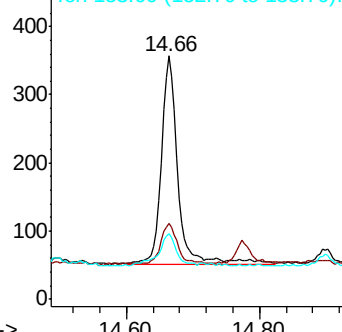
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 523   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 31.1  | 17.1  | 25.7# |
| 153       | 26.9  | 12.0  | 18.0# |

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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



#8

Acenaphthene

Concen: 0.280 ng/ul

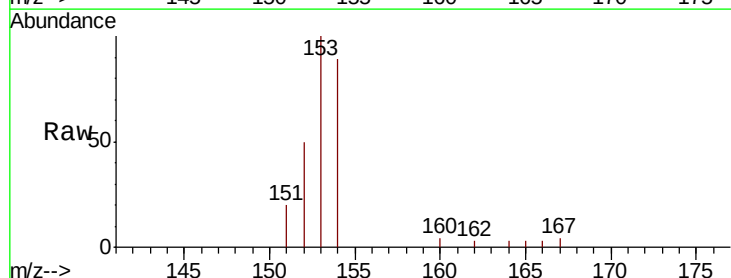
RT: 15.00 min Scan# 3167

Delta R.T. 0.00 min

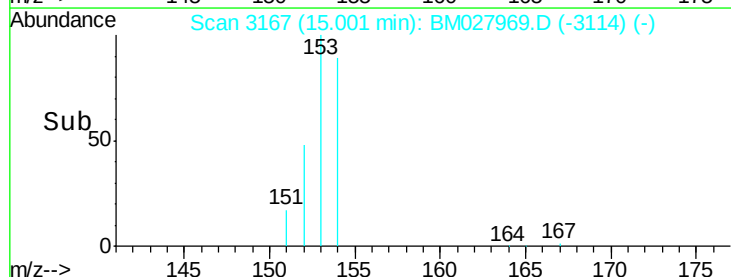
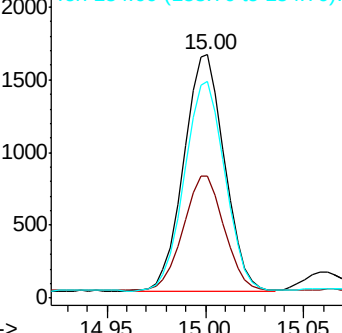
Lab File: BM027969.D

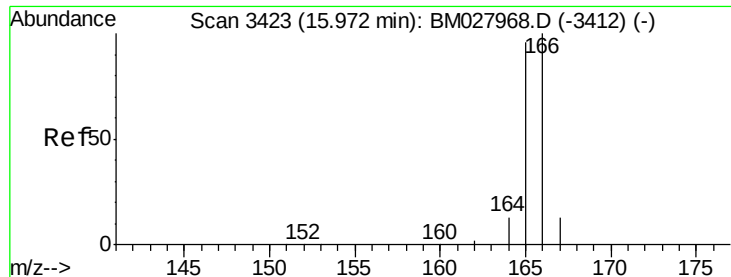
Acq: 25 Nov 2020 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2337  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.0  | 39.0  | 58.6  |
| 154       | 89.2  | 71.6  | 107.4 |



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





#9

Fluorene

Concen: 0.296 ng/ul

RT: 15.97 min Scan# 3423

Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

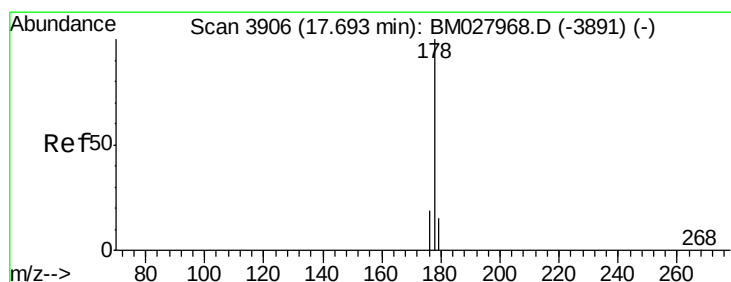
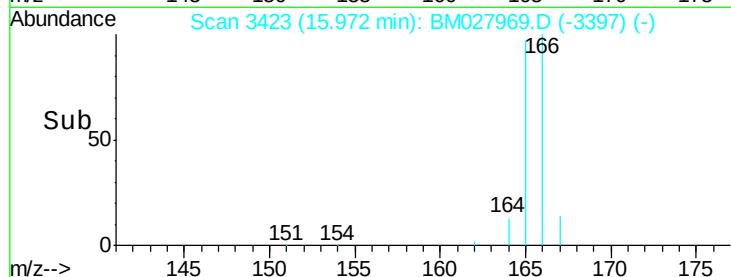
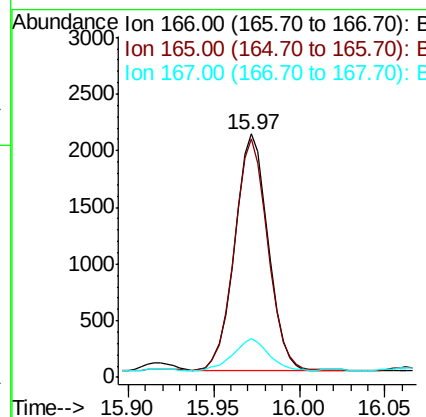
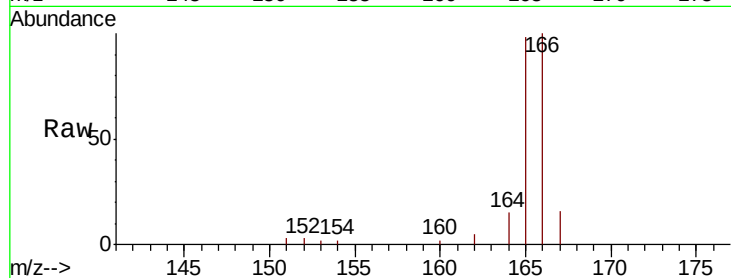
ClientSampleId :

C0B36DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 2871  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 97.9  | 78.1  | 117.1 |
| 167      | 16.2  | 11.8  | 17.8  |

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#12

Phenanthrene

Concen: 4.518 ng/ul

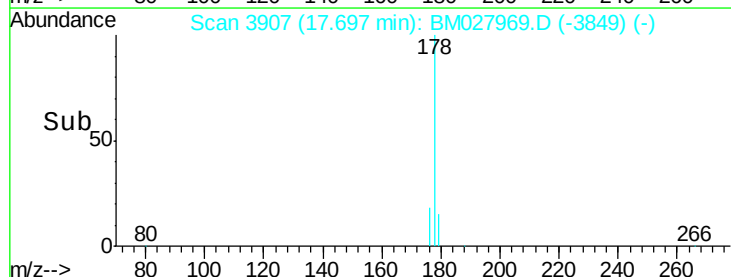
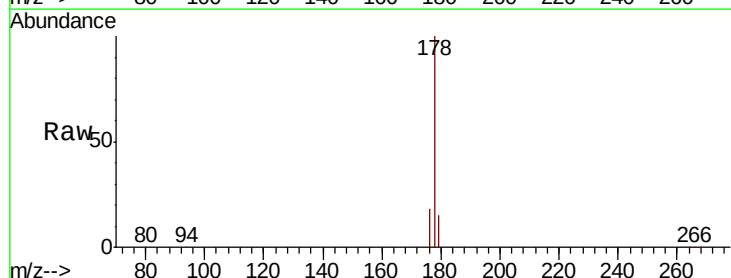
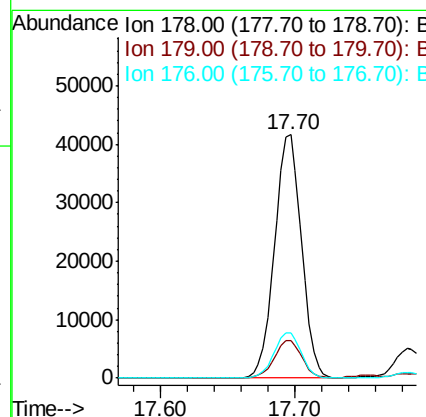
RT: 17.70 min Scan# 3907

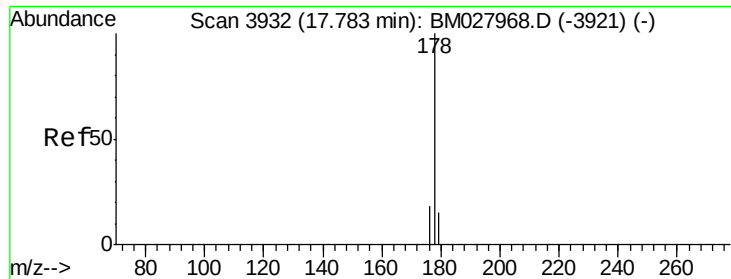
Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 57654 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 15.5  | 13.6  | 20.4  |
| 176      | 18.5  | 16.1  | 24.1  |





#13

Anthracene

Concen: 0.560 ng/ul

RT: 17.78 min Scan# 3932

Delta R.T. -0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

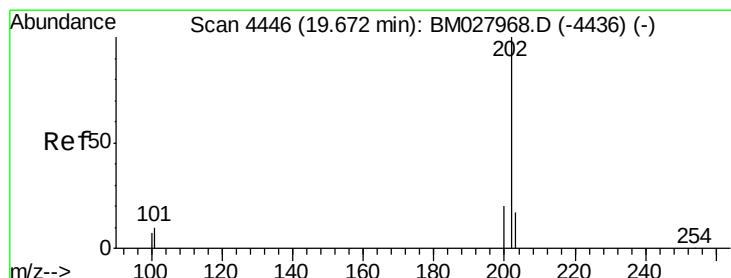
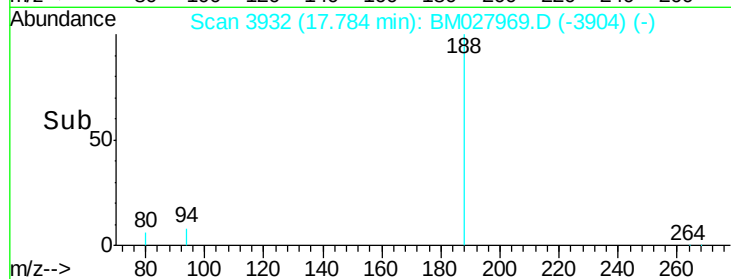
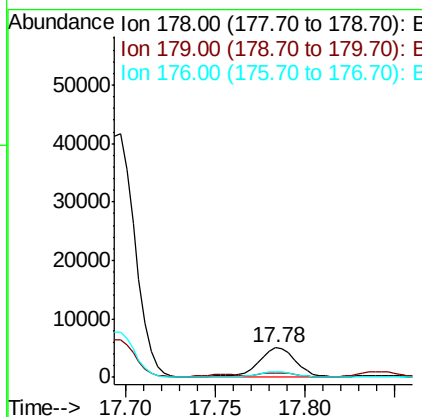
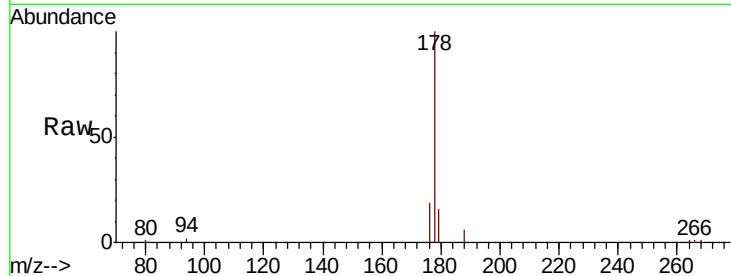
ClientSampled :

C0B36DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 6898  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 16.4  | 13.4  | 20.2  |
| 176      | 18.9  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 6.337 ng/ul

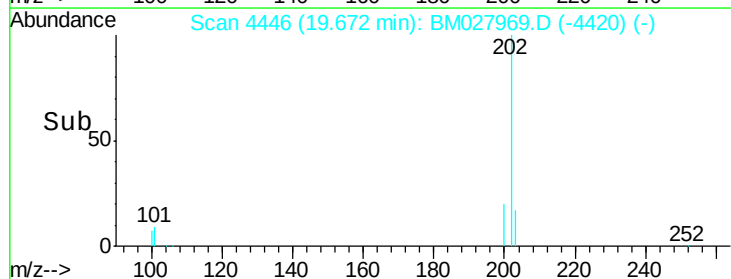
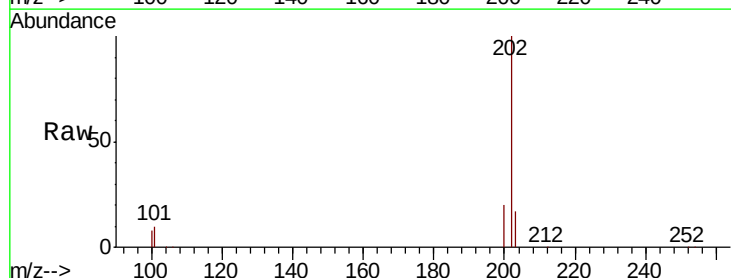
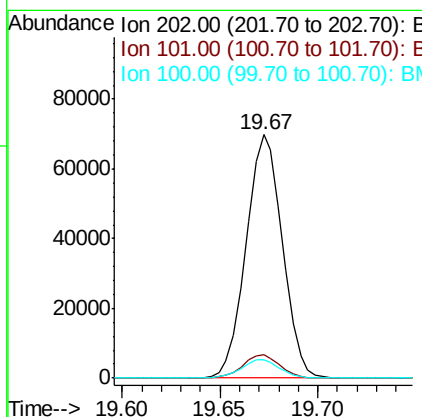
RT: 19.67 min Scan# 4446

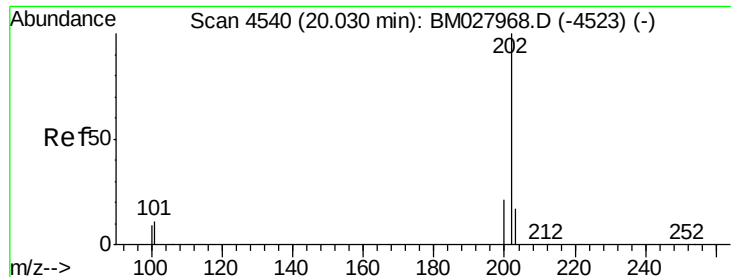
Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 89677 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.5   | 0.0   | 29.3  |
| 100      | 7.5   | 0.0   | 27.4  |





#17

Pvrene

Concen: 5.528 ng/ul

RT: 20.03 min Scan# 4540

Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

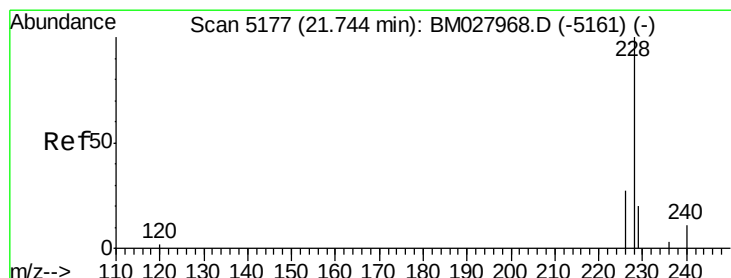
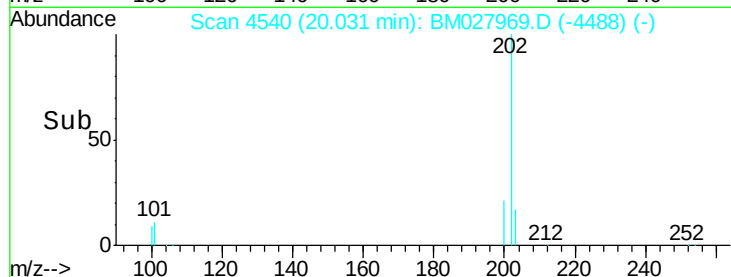
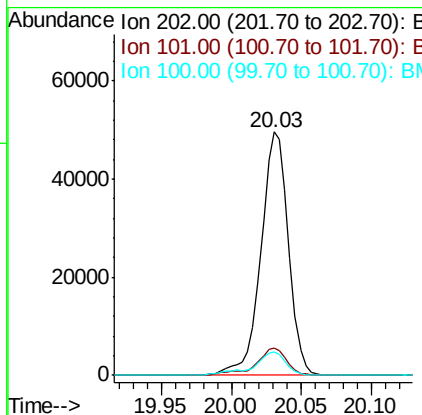
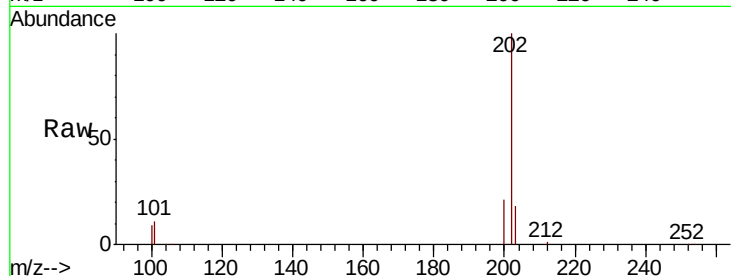
ClientSampleId :

C0B36DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 67740 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.3  | 8.2   | 12.2  |
| 100       | 9.5   | 6.9   | 10.3  |

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#18

Benzo(a)anthracene

Concen: 2.946 ng/ul

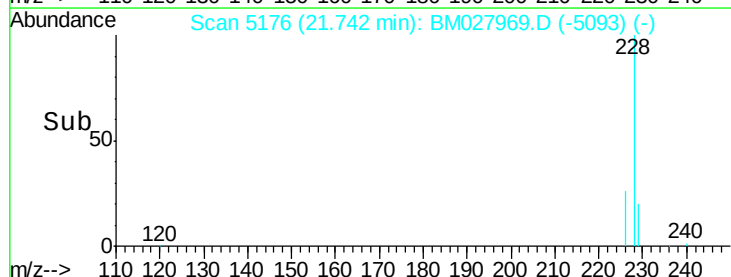
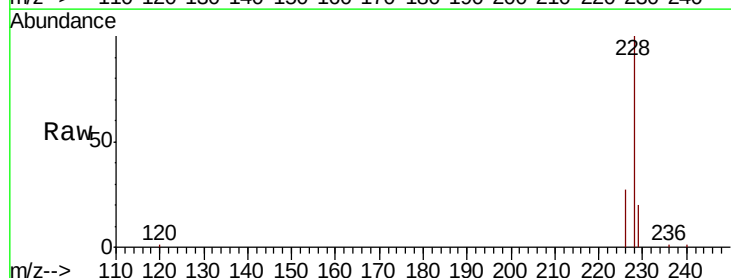
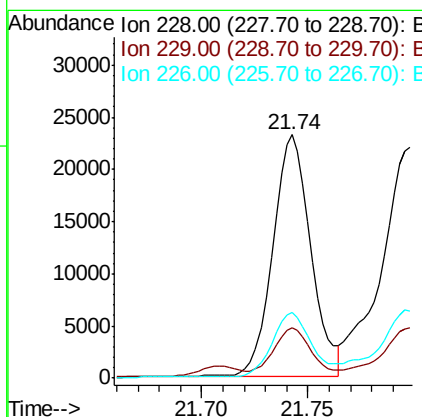
RT: 21.74 min Scan# 5176

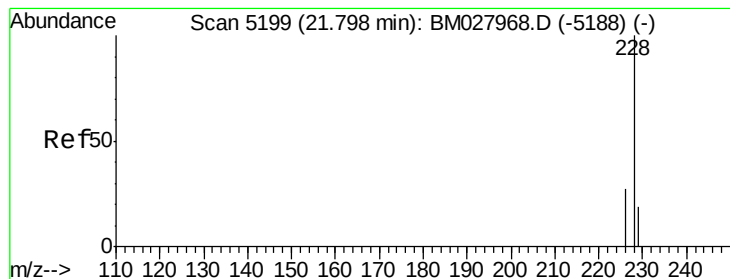
Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 28681 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 20.5  | 16.2  | 24.4  |
| 226       | 26.7  | 21.5  | 32.3  |





#19

Chrysene

Concen: 3.523 ng/ul

RT: 21.80 min Scan# 5199

Delta R.T. 0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

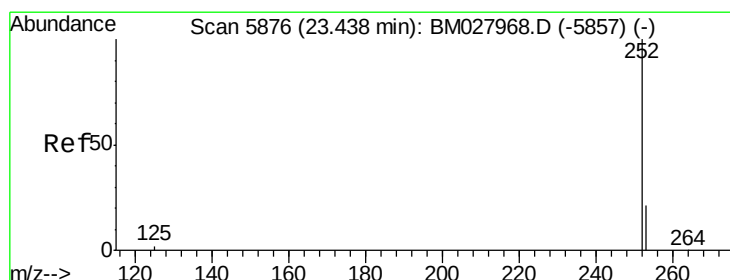
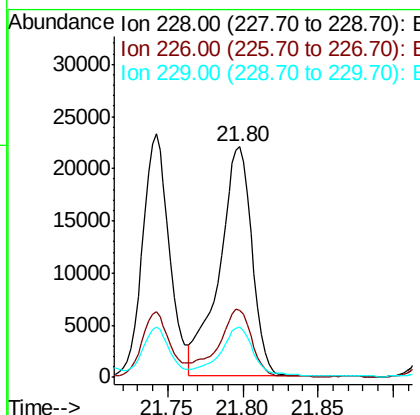
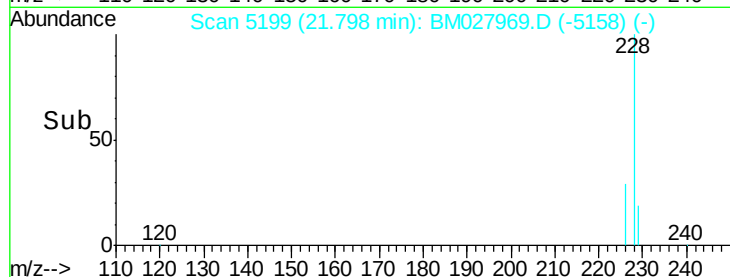
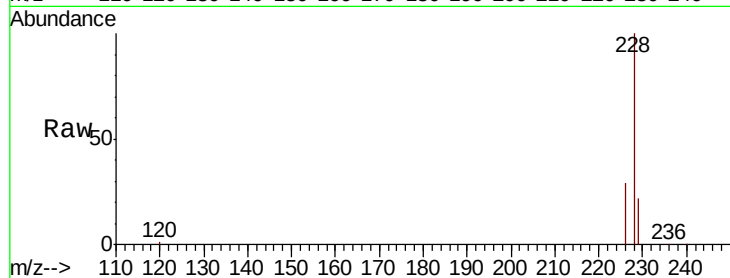
ClientSampleId :

C0B36DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 33413 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.2  | 24.1  | 36.1  |
| 229       | 21.6  | 16.6  | 24.8  |

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#21

Benzo(b)fluoranthene

Concen: 4.108 ng/ul m

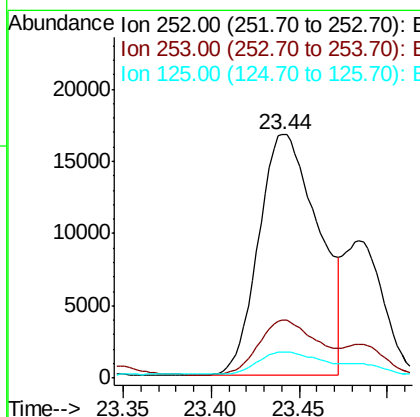
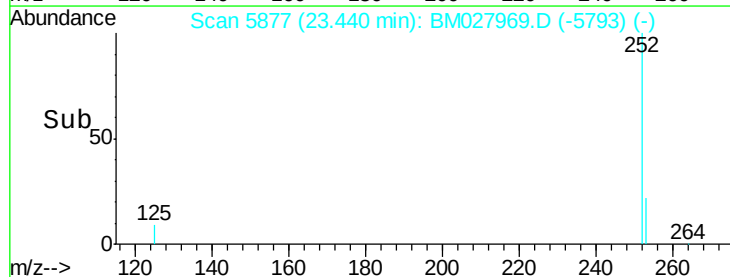
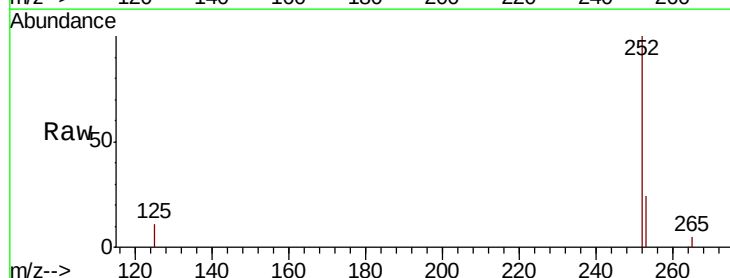
RT: 23.44 min Scan# 5877

Delta R.T. 0.00 min

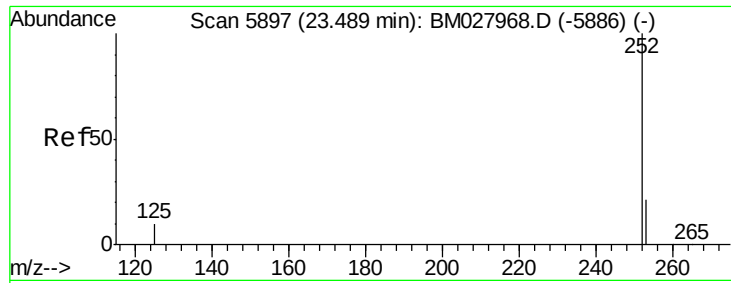
Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 39315 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.6  | 0.0   | 59.6  |
| 125       | 10.7  | 0.0   | 28.4  |







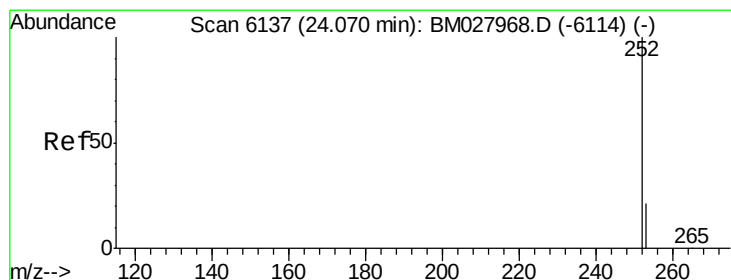
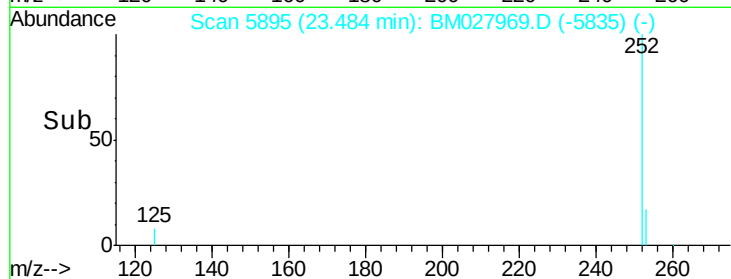
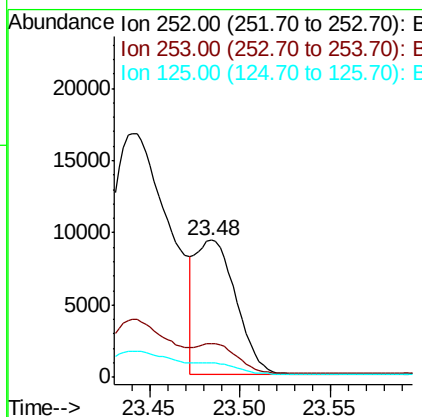
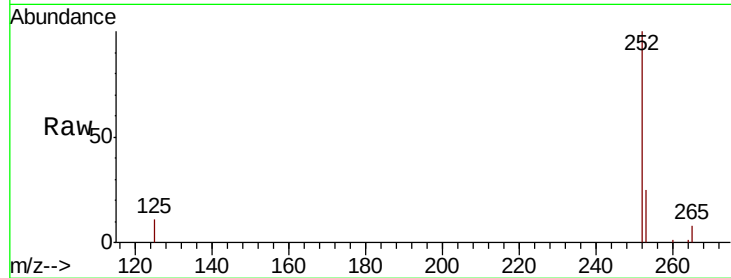
#22  
Benzo(k)fluoranthene  
Concen: 1.564 ng/ul m  
RT: 23.48 min Scan# 5895  
Delta R.T. -0.00 min  
Lab File: BM027969.D  
Acq: 25 Nov 2020 18:24

Instrument :  
BNA\_M  
ClientSampleId :  
C0B36DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 23.2  | 34.8  |
| 125     | 10.9  | 11.8  | 17.6# |

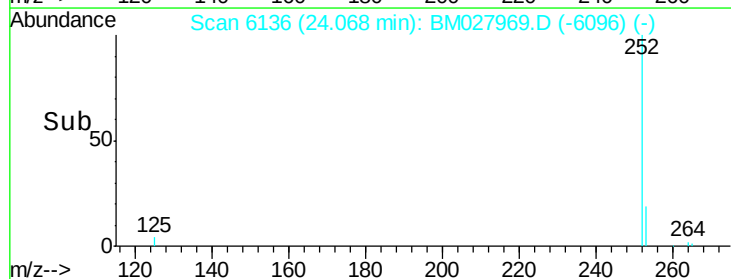
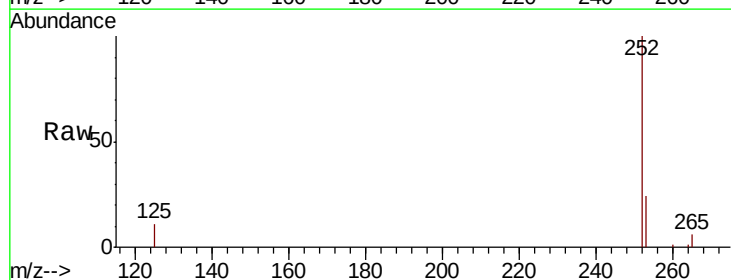
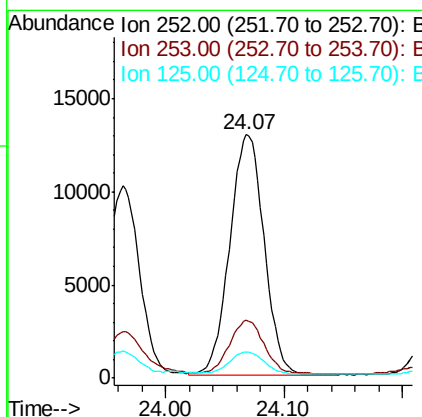
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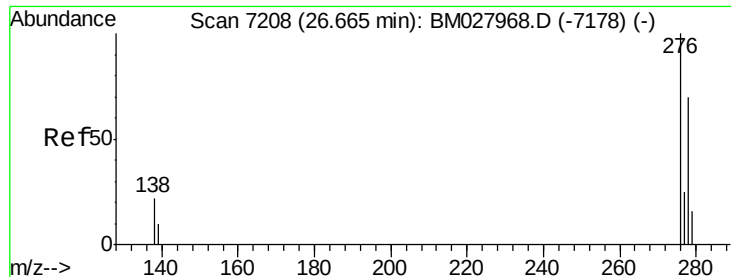
mohammad  
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#23  
Benzo(a)pyrene  
Concen: 3.077 ng/ul  
RT: 24.07 min Scan# 6136  
Delta R.T. -0.00 min  
Lab File: BM027969.D  
Acq: 25 Nov 2020 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 25.2  | 37.8# |
| 125     | 10.9  | 13.8  | 20.6# |





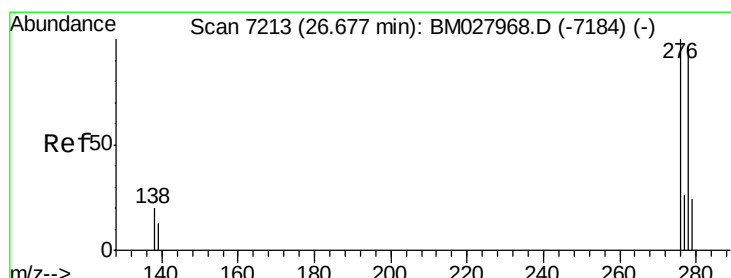
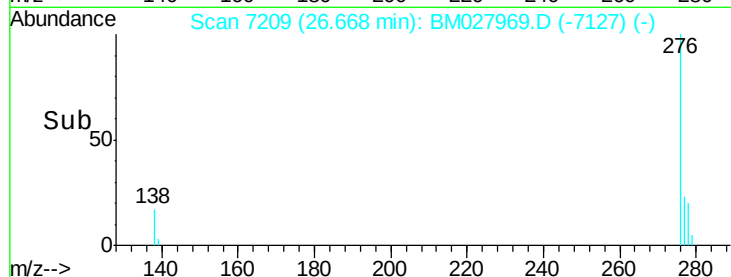
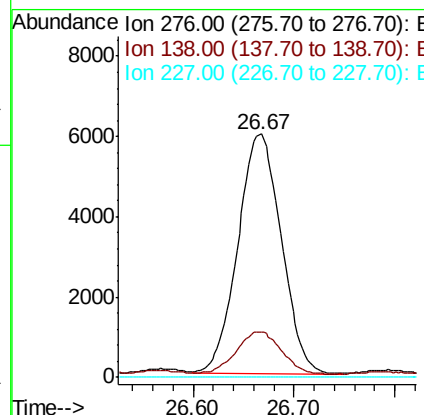
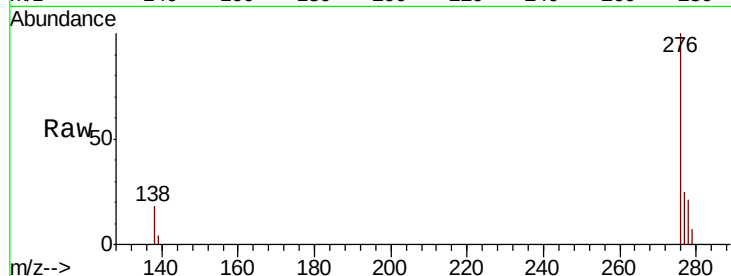
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.975 ng/ul  
 RT: 26.67 min Scan# 7209  
 Delta R.T. -0.00 min  
 Lab File: BM027969.D  
 Acq: 25 Nov 2020 18:24

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B36DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.1  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |

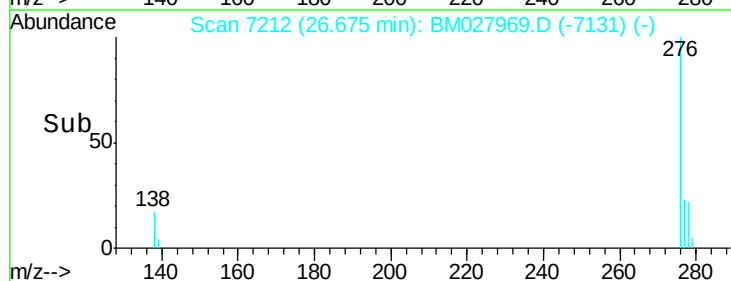
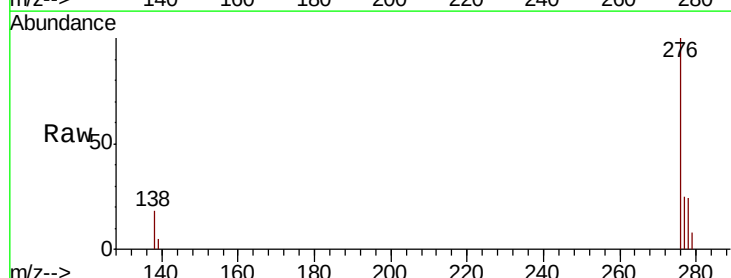
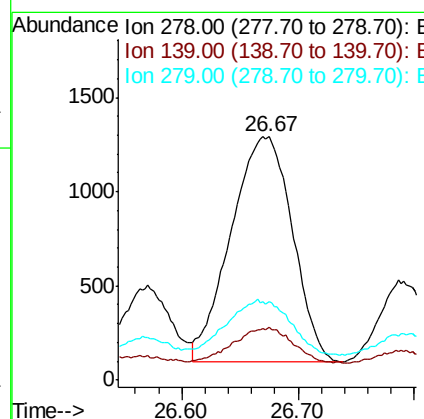
Manual Integrations  
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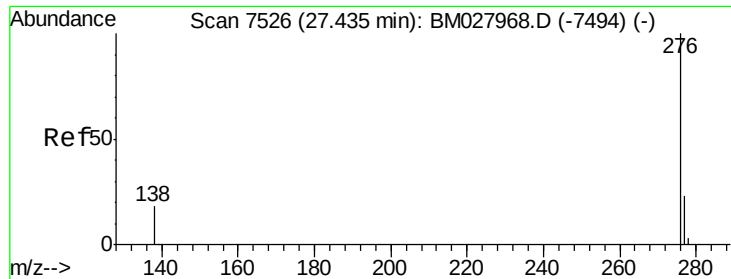
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 11/27/2020 11:43:49 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.583 ng/ul  
 RT: 26.67 min Scan# 7212  
 Delta R.T. -0.00 min  
 Lab File: BM027969.D  
 Acq: 25 Nov 2020 18:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.7  | 14.8  | 22.2  |
| 279     | 32.4  | 25.8  | 38.6  |





#26

Benzo(a,h,i)perylene

Concen: 2.235 ng/ul

RT: 27.44 min Scan# 7528

Delta R.T. -0.00 min

Lab File: BM027969.D

Acq: 25 Nov 2020 18:24

Instrument :

BNA\_M

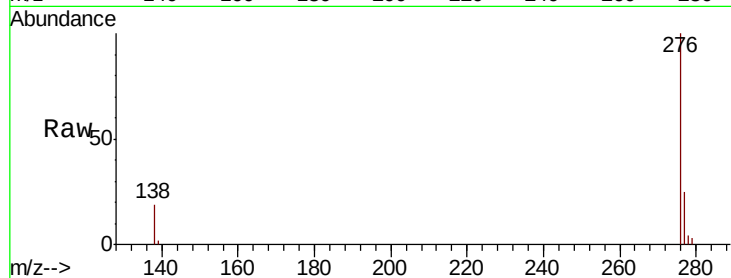
ClientSampleId :

C0B36DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 16985 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.6  | 17.4  | 26.2  |
| 277       | 24.9  | 22.5  | 33.7  |

Manual Integrations  
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Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

