

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
 Data File : BM027978.D  
 Acq On : 25 Nov 2020 23:50  
 Operator : JU/CG  
 Sample : L4749-13DL 5X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B12DL

Manual Integrations  
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mohammad  
 11/27/2020 11:44:19 AM

Quant Time: Nov 26 01:29:23 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  | 1175     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.16 | 136  | 4713     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.94 | 164  | 2616     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.65 | 188  | 4633     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.76 | 240  | 2546     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.17 | 264  | 2522     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.72 | 152  | 171      | 0.02   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.64 | 212  | 230      | 0.02   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.21 | 128  | 468      | 0.033  | ng/ul# | 73       |
| 5) 2-Methylnaphthalene      | 12.79 | 142  | 243      | 0.025  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.66 | 152  | 531      | 0.042  | ng/ul# | 73       |
| 8) Acenaphthene             | 15.00 | 153  | 627      | 0.066  | ng/ul  | 95       |
| 9) Fluorene                 | 15.97 | 166  | 769      | 0.069  | ng/ul# | 96       |
| 12) Phenanthrene            | 17.69 | 178  | 33181    | 2.267  | ng/ul  | 97       |
| 13) Anthracene              | 17.78 | 178  | 2651     | 0.188  | ng/ul  | 95       |
| 15) Fluoranthene            | 19.67 | 202  | 86360    | 5.322  | ng/ul  | 98       |
| 17) Pyrene                  | 20.03 | 202  | 68421    | 5.292  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 23290    | 2.267  | ng/ul  | 99       |
| 19) Chrysene                | 21.79 | 228  | 37176    | 3.715  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.44 | 252  | 48042m   | 4.533  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.48 | 252  | 16879m   | 1.626  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.07 | 252  | 28078    | 3.030  | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.66 | 276  | 22899    | 2.282  | ng/ul# | 96       |
| 25) Dibenzo(a,h)anthracene  | 26.67 | 278  | 5022     | 0.601  | ng/ul  | 96       |
| 26) Benzo(a,h,i)perylene    | 27.43 | 276  | 21135    | 2.511  | ng/ul  | 94       |

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

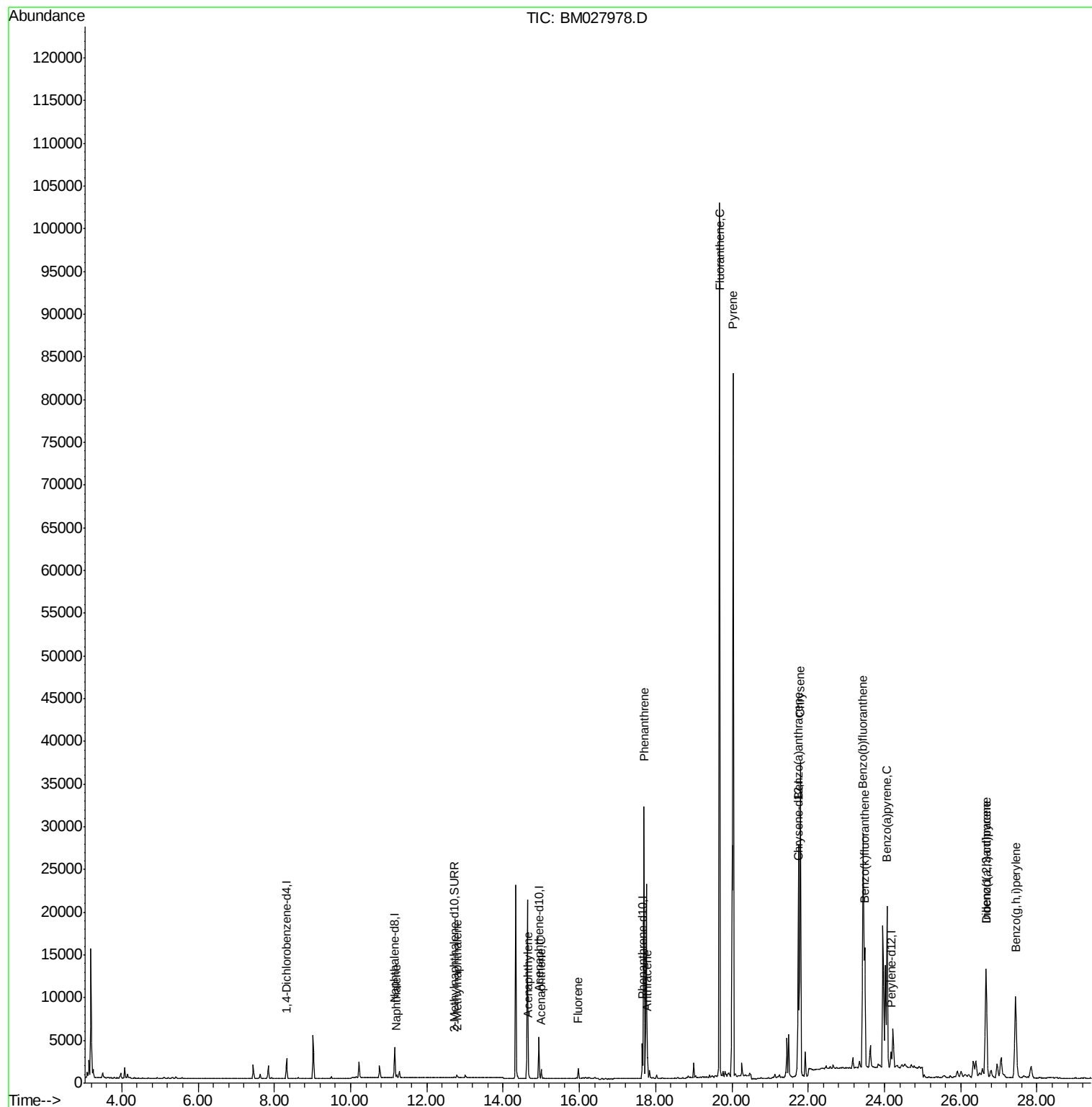
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112520\  
Data File : BM027978.D  
Acq On : 25 Nov 2020 23:50  
Operator : JU/CG  
Sample : L4749-13DL 5X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

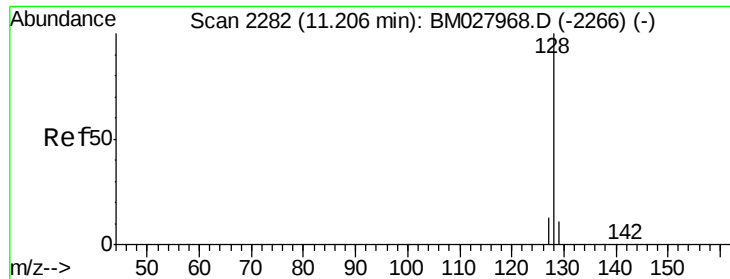
Instrument :  
BNA\_M  
ClientSampleId :  
C0B12DL

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Quant Time: Nov 26 01:29:23 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





#3

Naphthalene

Concen: 0.033 ng/ul

RT: 11.21 min Scan# 2282

Delta R.T. 0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

Instrument :

BNA\_M

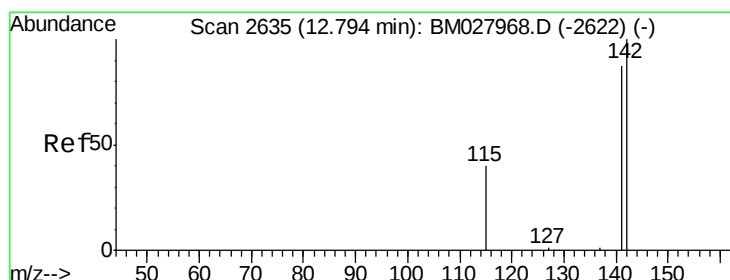
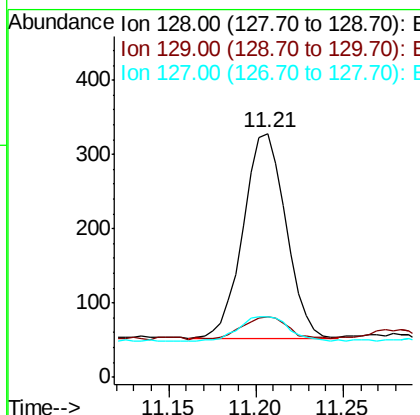
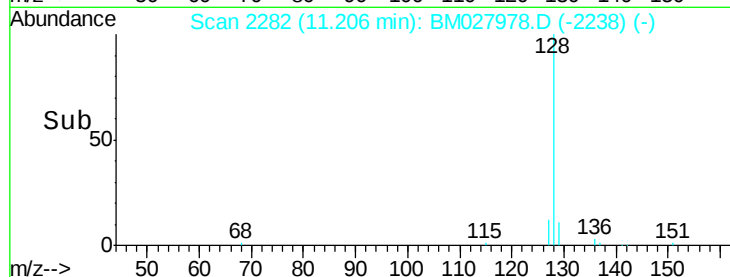
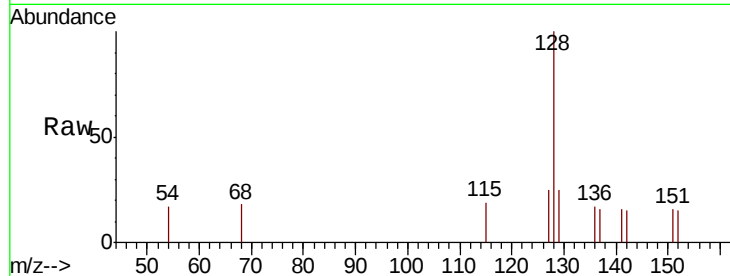
ClientSampleId :

C0B12DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 468   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 25.0  | 10.4  | 15.6# |
| 127      | 25.0  | 12.0  | 18.0# |

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#5

2-Methylnaphthalene

Concen: 0.025 ng/ul

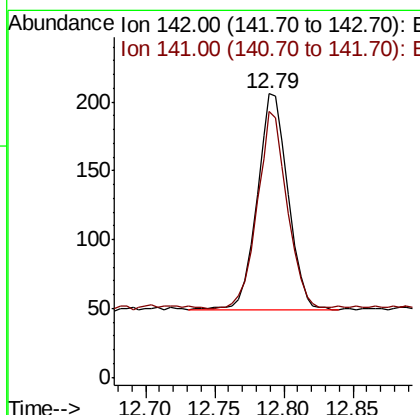
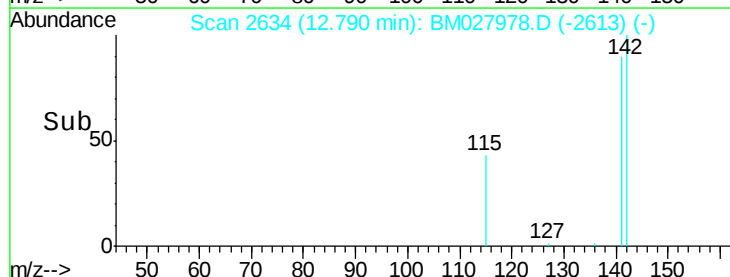
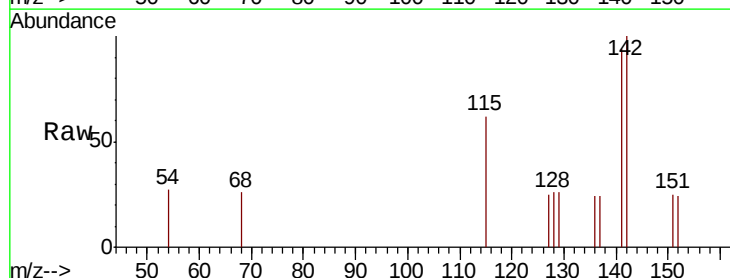
RT: 12.79 min Scan# 2634

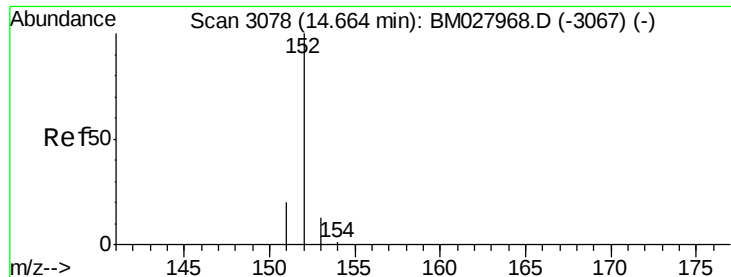
Delta R.T. -0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 243   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 88.1  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.042 ng/ul

RT: 14.66 min Scan# 3078

Delta R.T. 0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

Instrument :

BNA\_M

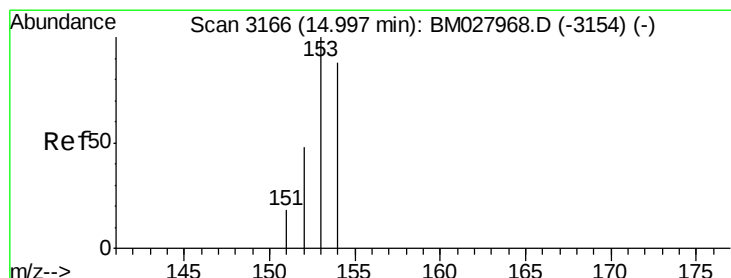
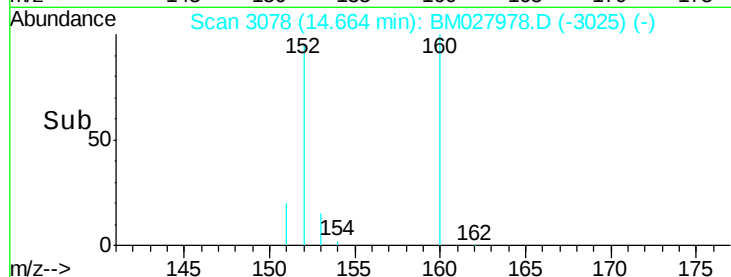
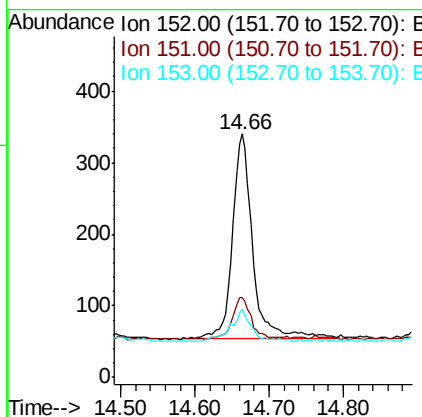
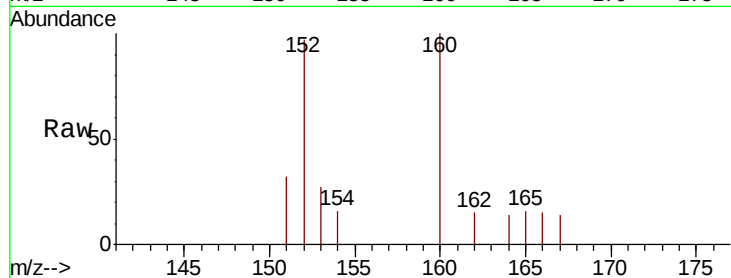
ClientSampleId :

C0B12DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 531   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 32.9  | 17.1  | 25.7# |
| 153       | 27.9  | 12.0  | 18.0# |

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#8

Acenaphthene

Concen: 0.066 ng/ul

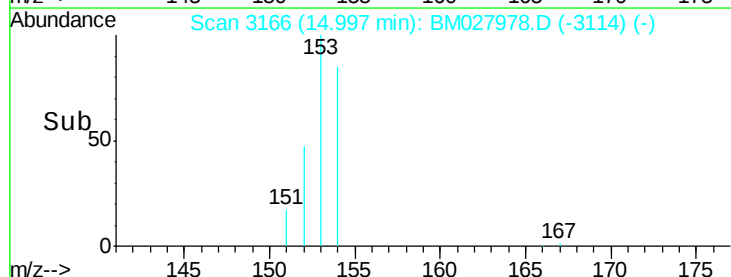
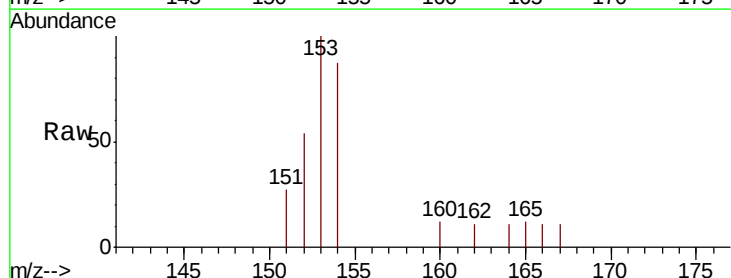
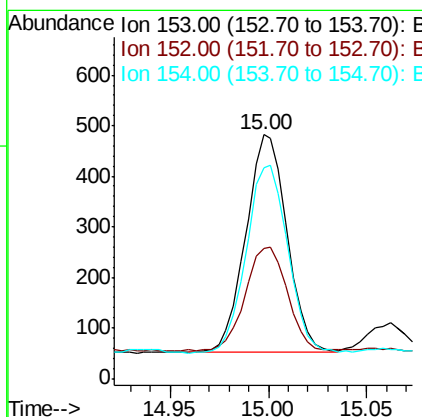
RT: 15.00 min Scan# 3166

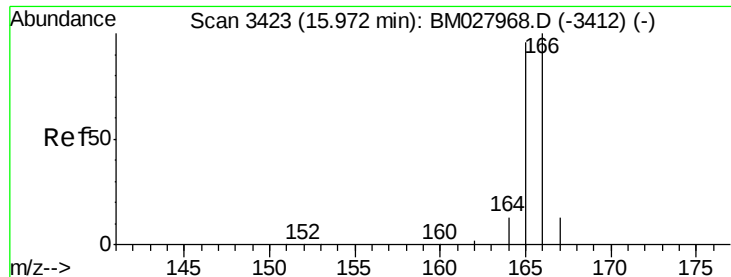
Delta R.T. -0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 627   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 53.5  | 39.0  | 58.6  |
| 154       | 86.5  | 71.6  | 107.4 |





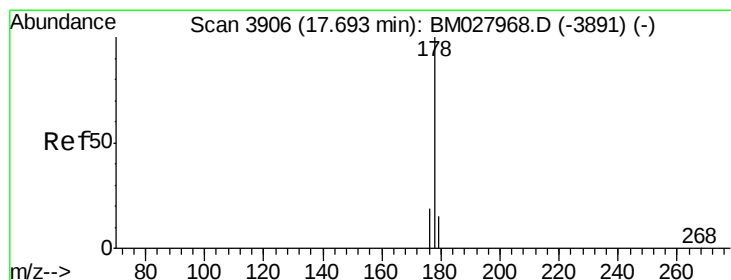
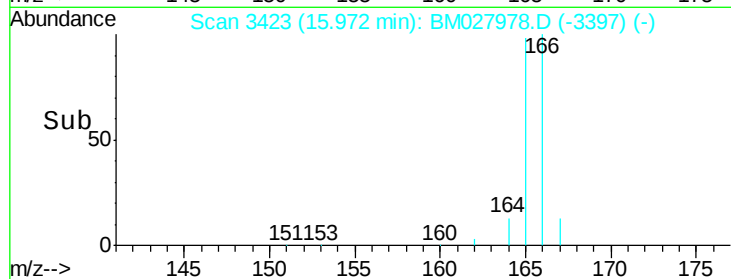
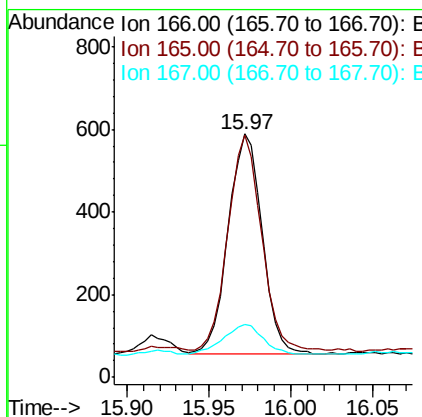
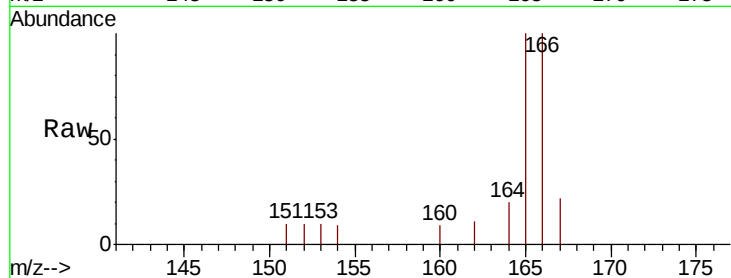
#9  
**Fluorene**  
 Concen: 0.069 ng/ul  
 RT: 15.97 min Scan# 3423  
 Delta R.T. 0.00 min  
 Lab File: BM027978.D  
 Acq: 25 Nov 2020 23:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B12DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.8  | 78.1  | 117.1 |
| 167     | 21.9  | 11.8  | 17.8  |

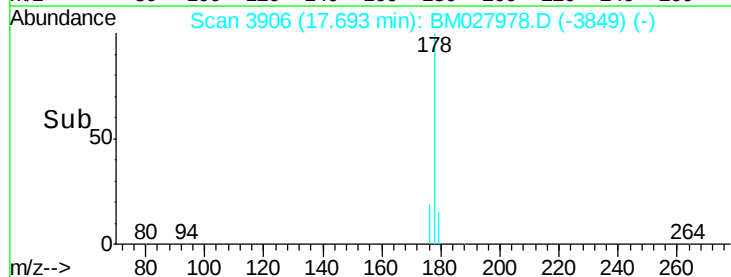
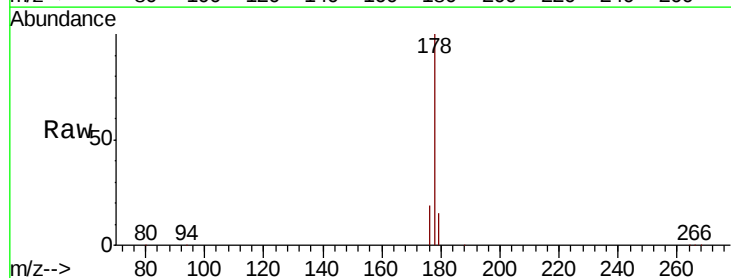
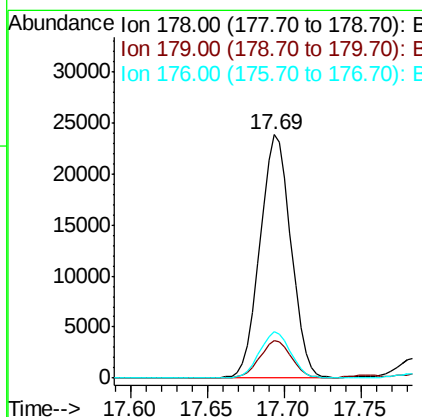
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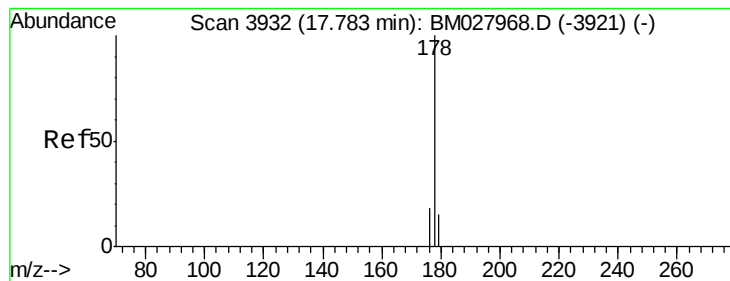
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 11/27/2020 11:44:19 AM



#12  
**Phenanthrene**  
 Concen: 2.267 ng/ul  
 RT: 17.69 min Scan# 3906  
 Delta R.T. -0.00 min  
 Lab File: BM027978.D  
 Acq: 25 Nov 2020 23:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 13.6  | 20.4  |
| 176     | 19.0  | 16.1  | 24.1  |





#13

Anthracene

Concen: 0.188 ng/ul

RT: 17.78 min Scan# 3932

Delta R.T. -0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

Instrument :

BNA\_M

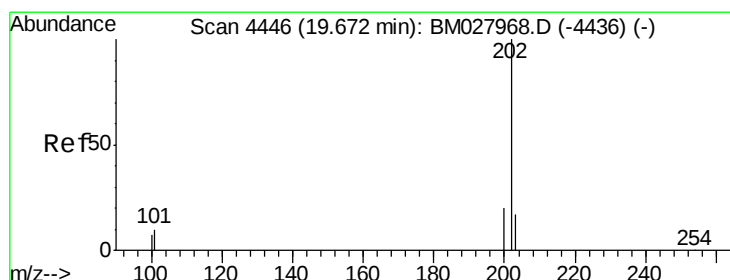
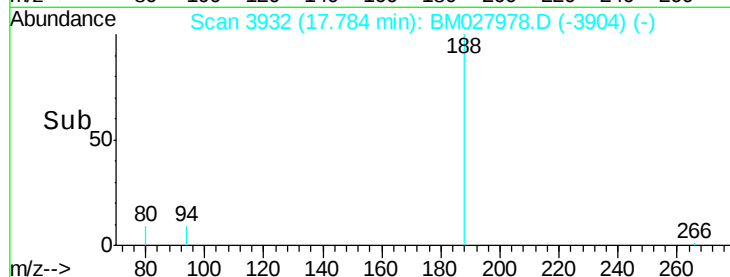
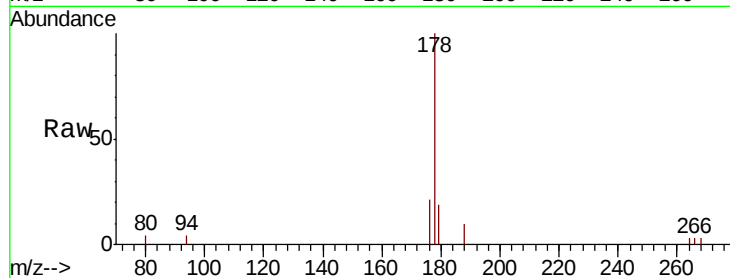
ClientSampleId :

C0B12DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 178   | Resp: | 2651 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 18.9  | 13.4  | 20.2 |
| 176       | 20.7  | 15.0  | 22.6 |

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#15

Fluoranthene

Concen: 5.322 ng/ul

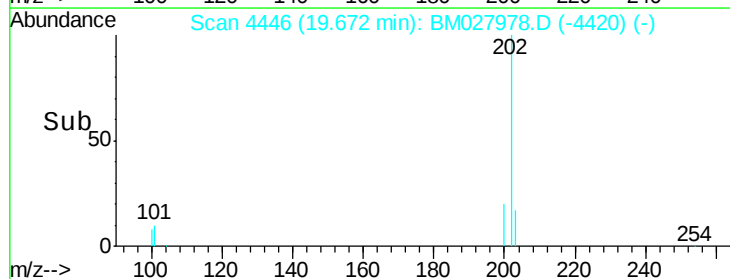
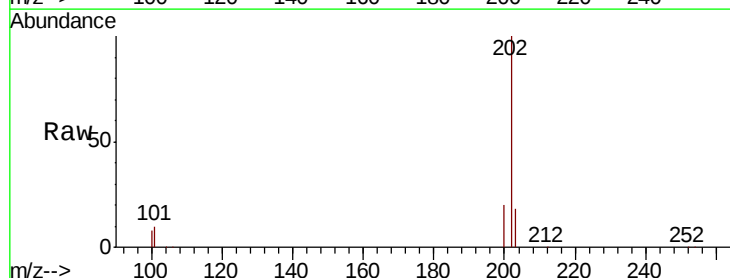
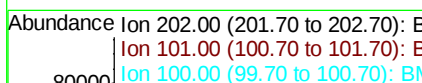
RT: 19.67 min Scan# 4446

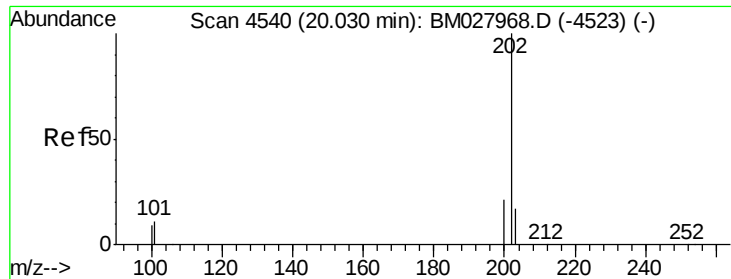
Delta R.T. 0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 86360 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.0  | 0.0   | 29.3  |
| 100       | 7.8   | 0.0   | 27.4  |





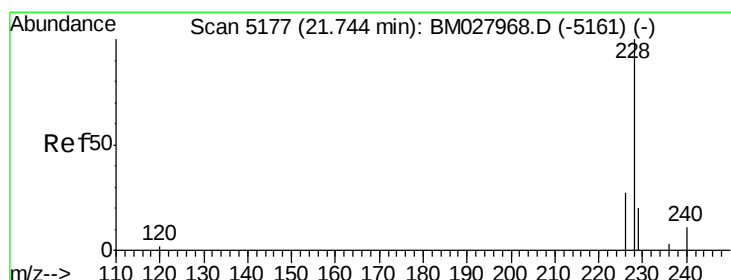
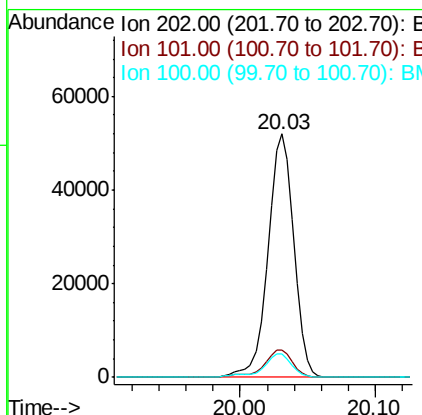
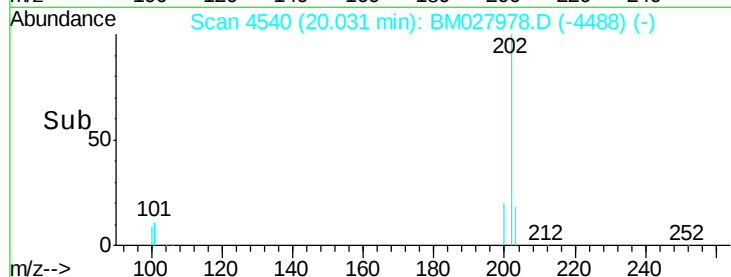
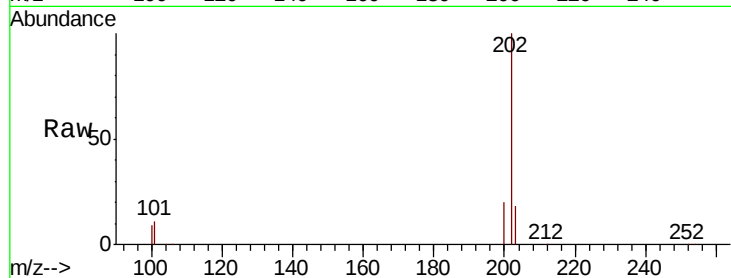
#17  
Pvrene  
Concen: 5.292 ng/ul  
RT: 20.03 min Scan# 4540  
Delta R.T. 0.00 min  
Lab File: BM027978.D  
Acq: 25 Nov 2020 23:50

Instrument :  
BNA\_M  
ClientSampleId :  
C0B12DL

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

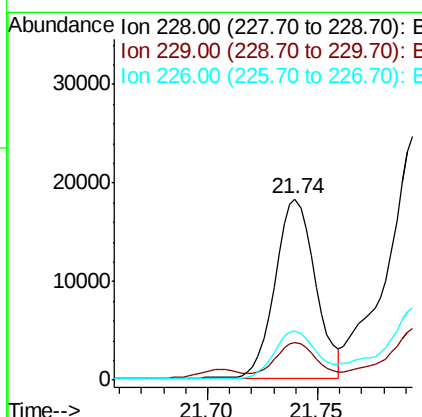
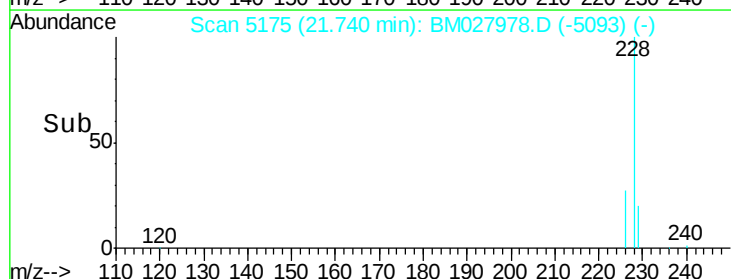
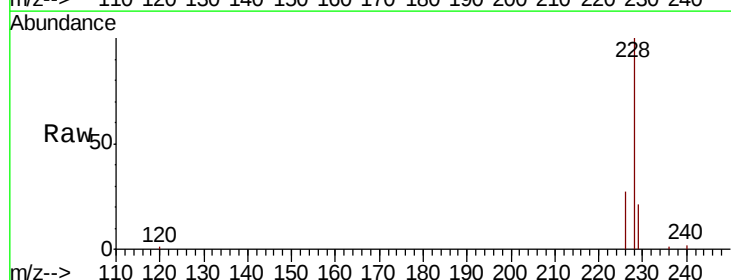
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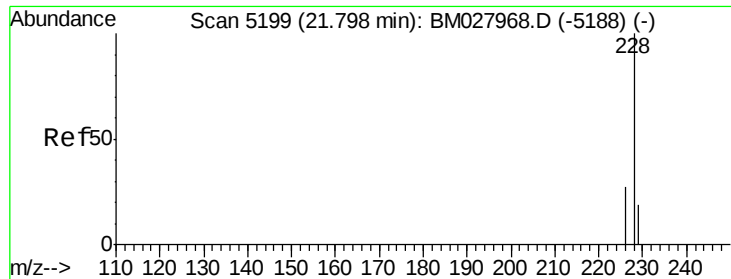
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#18  
Benzo(a)anthracene  
Concen: 2.267 ng/ul  
RT: 21.74 min Scan# 5175  
Delta R.T. -0.00 min  
Lab File: BM027978.D  
Acq: 25 Nov 2020 23:50

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.8  | 16.2       | 24.4  |
| 226     | 27.1  | 21.5       | 32.3  |





#19

Chrysene

Concen: 3.715 ng/ul

RT: 21.79 min Scan# 5197

Delta R.T. -0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

Instrument :

BNA\_M

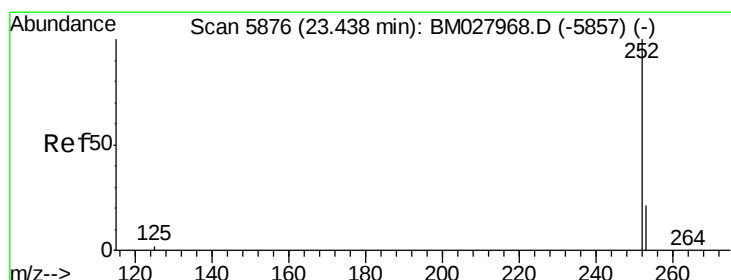
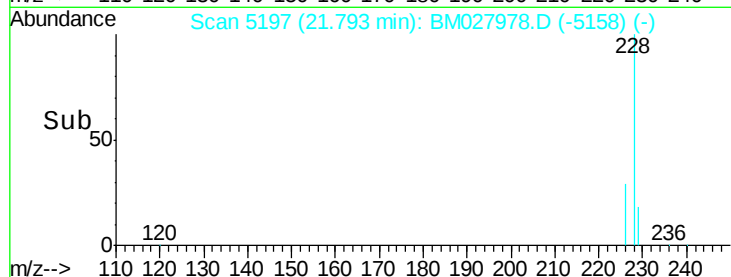
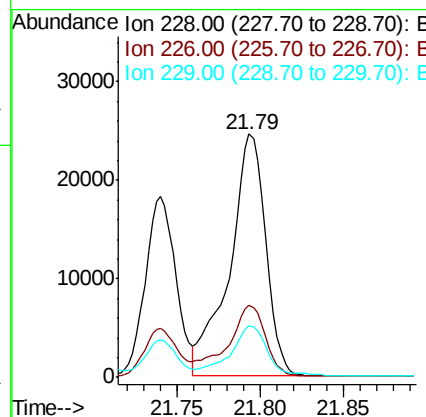
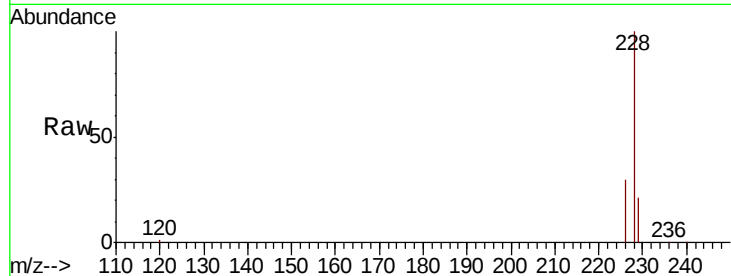
ClientSampleId :

C0B12DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 37176 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.6  | 24.1  | 36.1  |
| 229       | 21.1  | 16.6  | 24.8  |

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#21

Benzo(b)fluoranthene

Concen: 4.533 ng/ul m

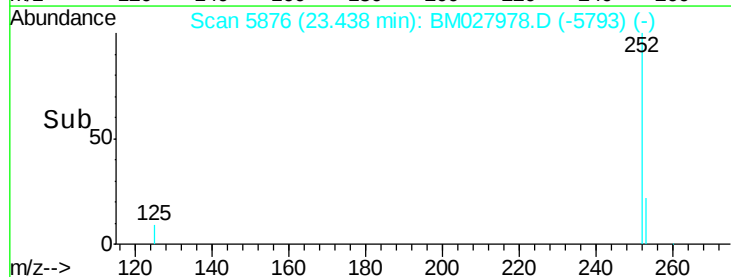
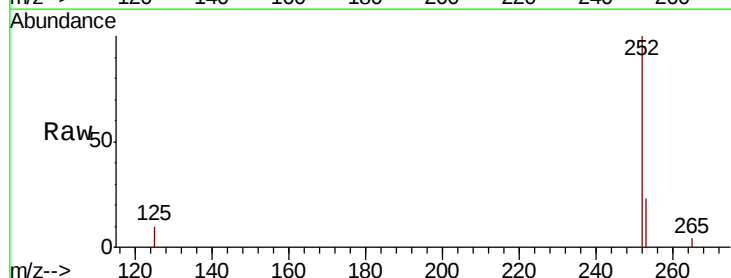
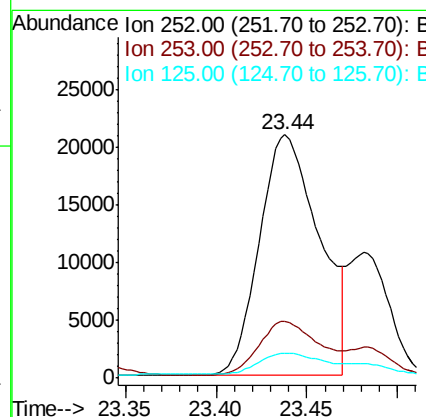
RT: 23.44 min Scan# 5876

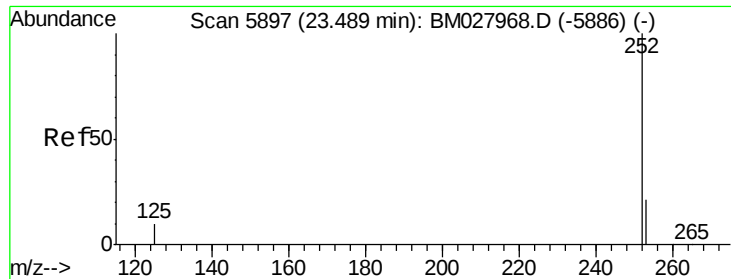
Delta R.T. 0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 48042 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 0.0   | 59.6  |
| 125       | 10.3  | 0.0   | 28.4  |





#22

Benzo(k)fluoranthene

Concen: 1.626 ng/ul m

RT: 23.48 min Scan# 5894

Delta R.T. -0.01 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

Instrument :

BNA\_M

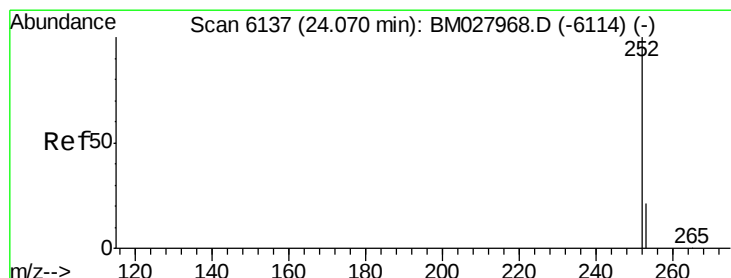
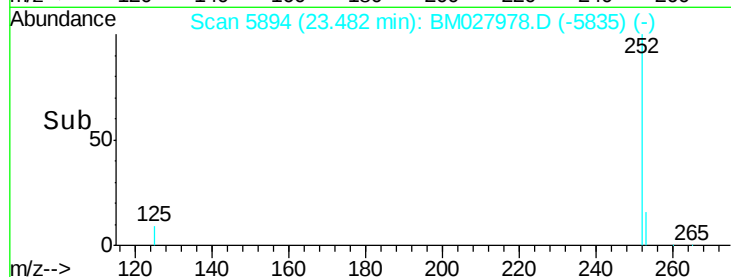
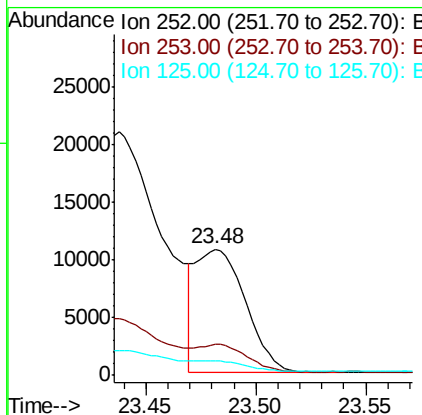
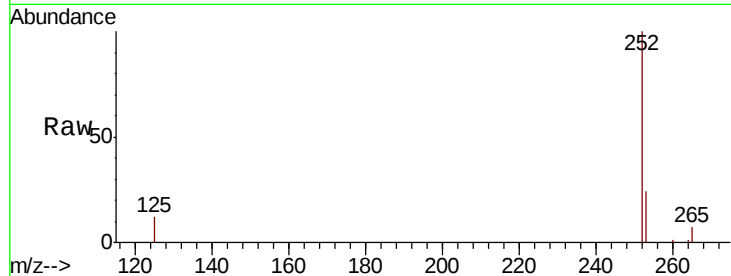
ClientSampleId :

C0B12DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 23.2  | 34.8  |
| 125     | 11.7  | 11.8  | 17.6  |

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#23

Benzo(a)pyrene

Concen: 3.030 ng/ul

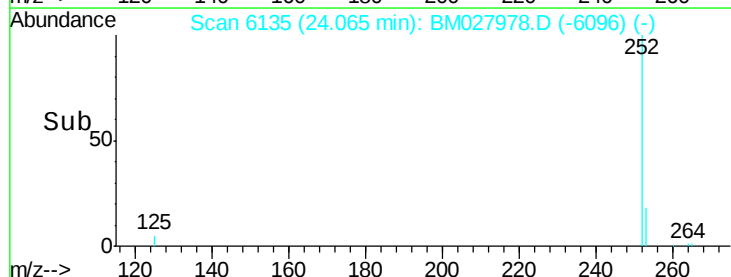
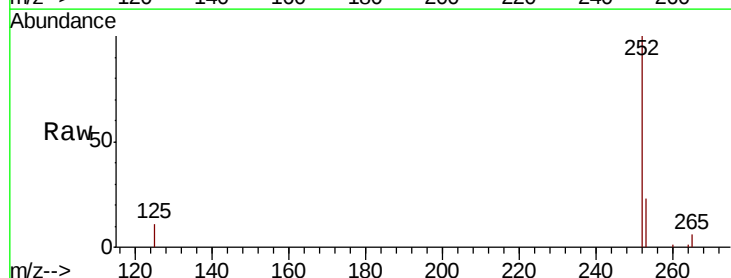
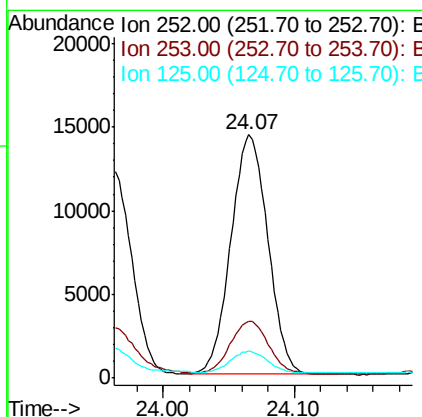
RT: 24.07 min Scan# 6135

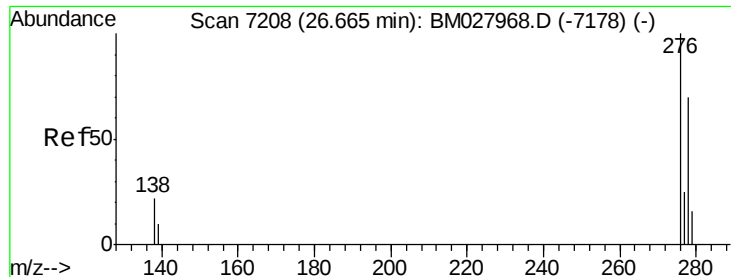
Delta R.T. -0.00 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 25.2  | 37.8  |
| 125     | 11.3  | 13.8  | 20.6  |





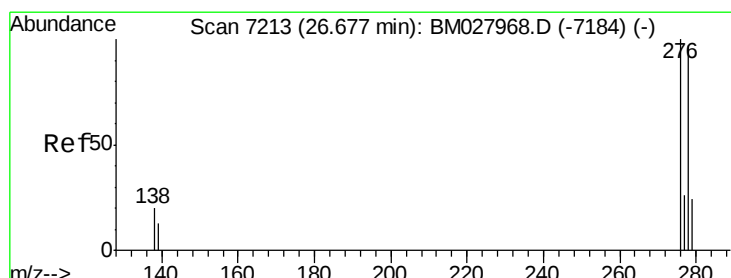
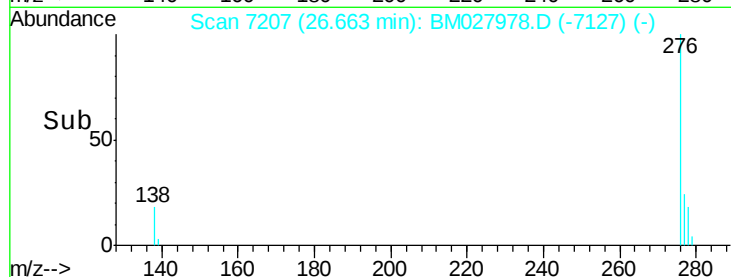
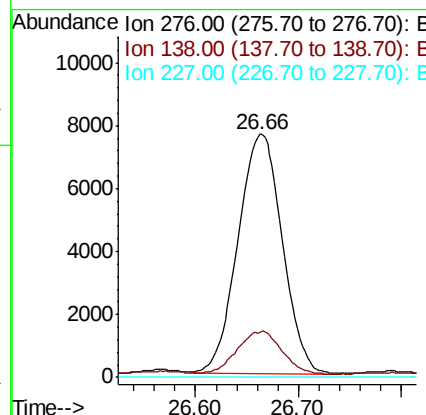
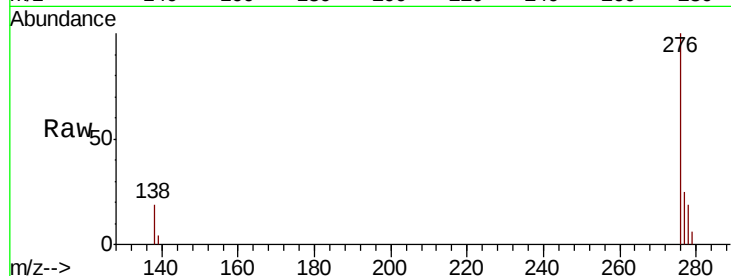
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.282 ng/ul  
 RT: 26.66 min Scan# 7207  
 Delta R.T. -0.01 min  
 Lab File: BM027978.D  
 Acq: 25 Nov 2020 23:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B12DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.9  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |

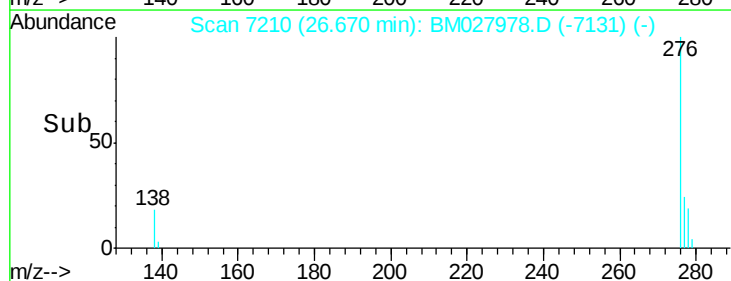
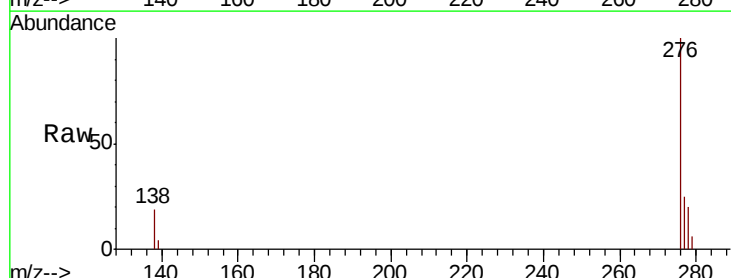
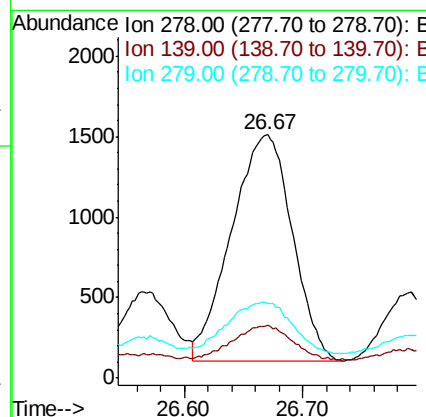
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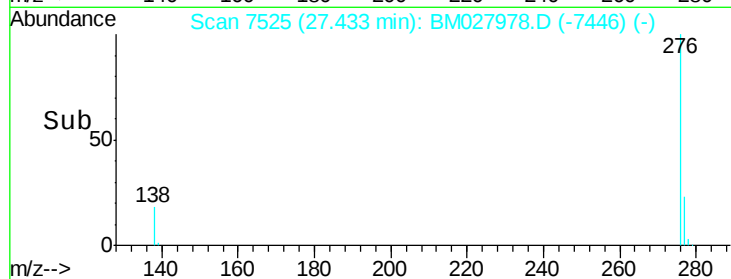
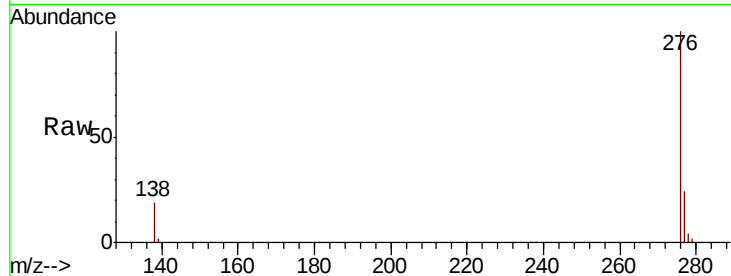
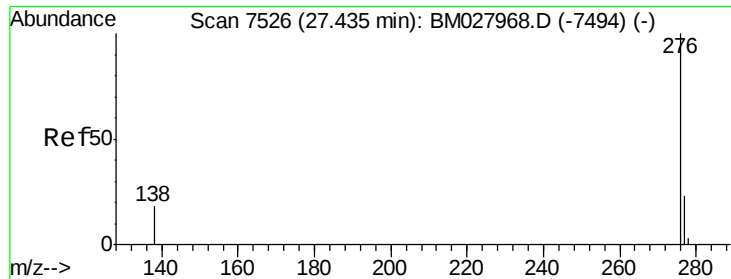
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.601 ng/ul  
 RT: 26.67 min Scan# 7210  
 Delta R.T. -0.01 min  
 Lab File: BM027978.D  
 Acq: 25 Nov 2020 23:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 21.5  | 14.8  | 22.2  |
| 279     | 30.6  | 25.8  | 38.6  |





#26

Benzo(a,h,i)perylene

Concen: 2.511 ng/ul

RT: 27.43 min Scan# 7525

Delta R.T. -0.01 min

Lab File: BM027978.D

Acq: 25 Nov 2020 23:50

Instrument :

BNA\_M

ClientSampleId :

C0B12DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 21135 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.4  | 17.4  | 26.2  |
| 277       | 24.5  | 22.5  | 33.7  |

Manual Integrations  
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