

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
 Data File : BN012941.D  
 Acq On : 07 Dec 2020 16:17  
 Operator : CG/JU  
 Sample : L4859-15DL 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B27DL

Manual Integrations  
 APPROVED

mohammad  
 12/9/2020 12:21:06 PM

Quant Time: Dec 07 16:48:30 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 07 12:24:06 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 950      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.15 | 136  | 3958     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.06 | 164  | 2251     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.81 | 188  | 4575     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.04 | 240  | 3681     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.14 | 264  | 3475     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.77 | 152  | 71       | 0.01   | ng/ul  | 0.01     |
| 14) Fluoranthene-d10        | 18.86 | 212  | 159      | 0.01   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.20 | 128  | 247      | 0.022  | ng/ul# | 53       |
| 7) Acenaphthylene           | 13.77 | 152  | 562      | 0.053  | ng/ul# | 86       |
| 12) Phenanthrene            | 16.85 | 178  | 1864     | 0.122  | ng/ul  | 97       |
| 13) Anthracene              | 16.95 | 178  | 370      | 0.028  | ng/ul# | 70       |
| 15) Fluoranthene            | 18.88 | 202  | 7572     | 0.415  | ng/ul  | 100      |
| 17) Pyrene                  | 19.25 | 202  | 7846     | 0.451  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.02 | 228  | 3920     | 0.257  | ng/ul  | 98       |
| 19) Chrysene                | 21.07 | 228  | 4599     | 0.273  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.52 | 252  | 6355m    | 0.395  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.56 | 252  | 2432m    | 0.137  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.05 | 252  | 4107m    | 0.275  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.20 | 276  | 2688     | 0.137  | ng/ul# | 95       |
| 25) Dibenzo(a,h)anthracene  | 25.21 | 278  | 620      | 0.040  | ng/ul# | 42       |
| 26) Benzo(g,h,i)perylene    | 25.83 | 276  | 2429     | 0.137  | ng/ul# | 92       |

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

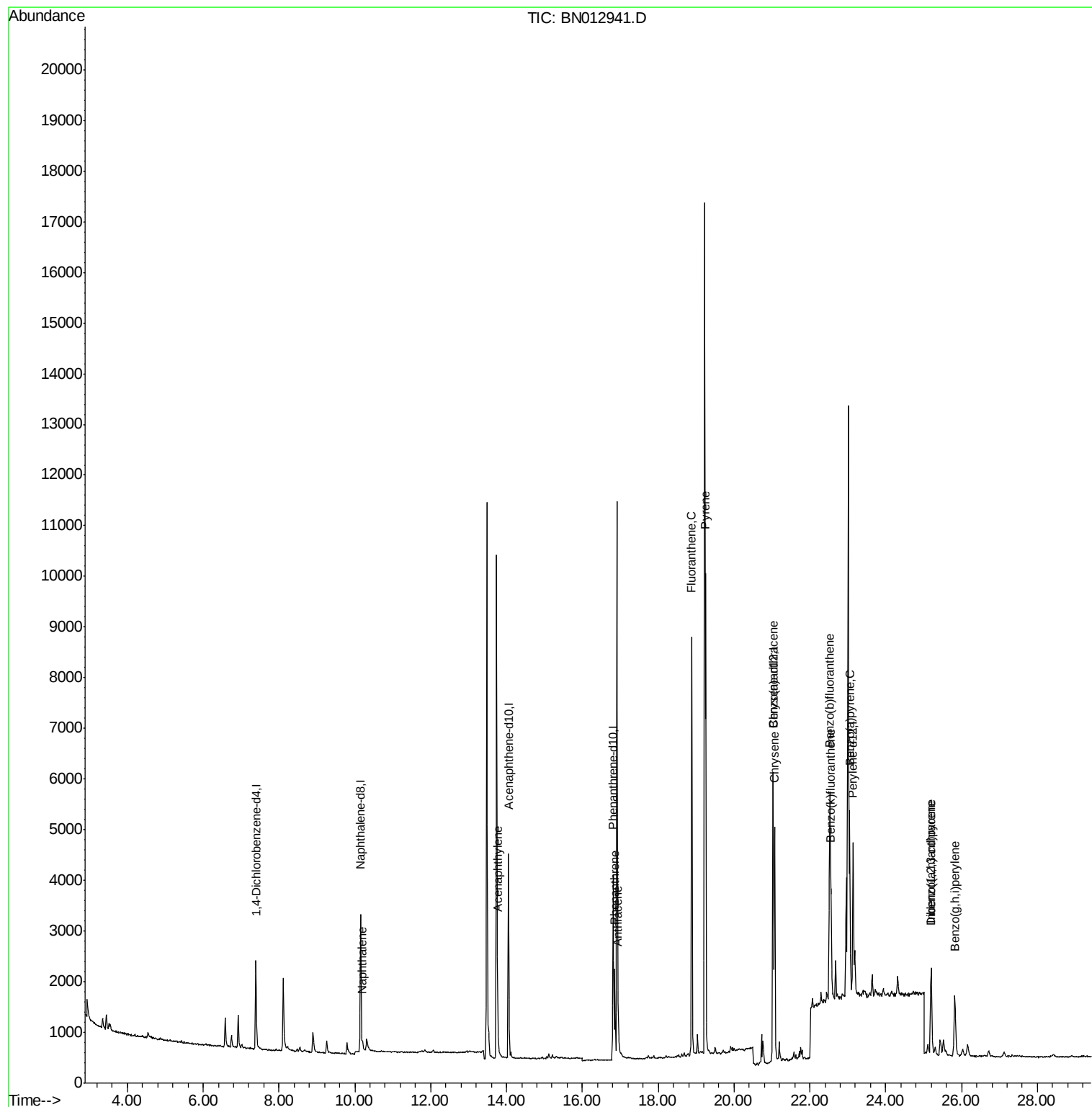
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
Data File : BN012941.D  
Acq On : 07 Dec 2020 16:17  
Operator : CG/JU  
Sample : L4859-15DL 5X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

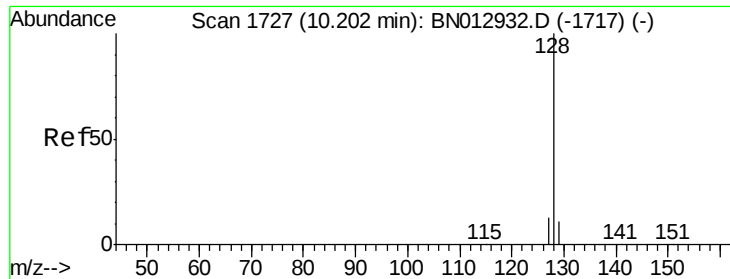
Instrument :  
BNA\_N  
ClientSampleId :  
C0B27DL

Manual Integrations  
APPROVED

mohammad  
12/9/2020 12:21:06 PM

Quant Time: Dec 07 16:48:30 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 07 12:24:06 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.022 ng/ul

RT: 10.20 min Scan# 1727

Delta R.T. 0.00 min

Lab File: BN012941.D

Acq: 07 Dec 2020 16:17

Instrument :

BNA\_N

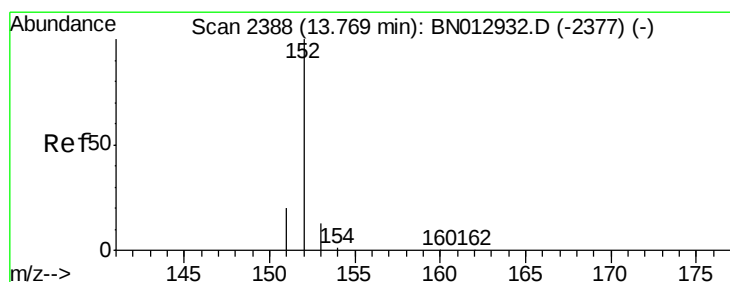
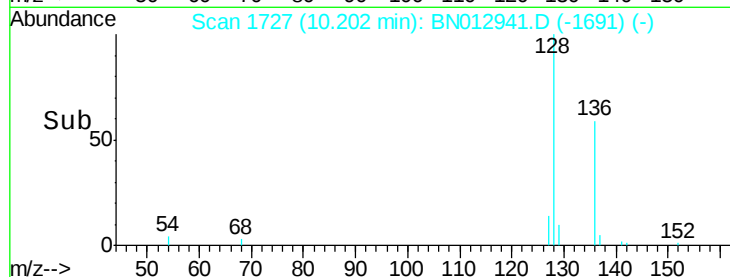
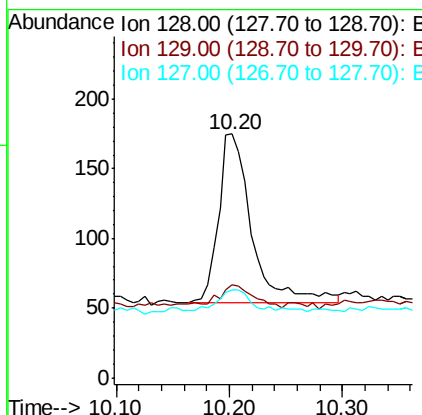
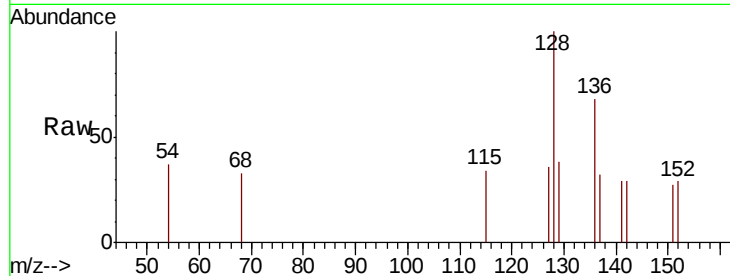
ClientSampleId :

C0B27DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 247   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 38.3  | 12.3  | 18.5# |
| 127      | 36.0  | 14.2  | 21.4# |

Manual Integrations  
APPROVED

mohammad  
12/9/2020 12:21:06 PM



#7

Acenaphthylene

Concen: 0.053 ng/ul

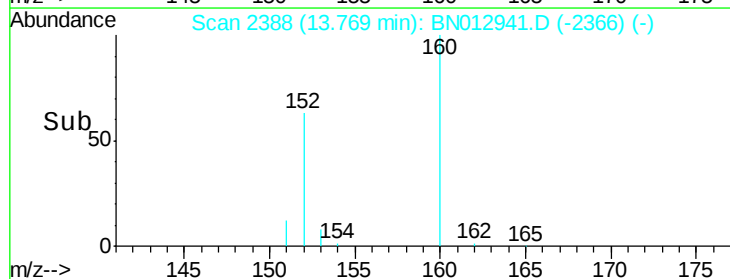
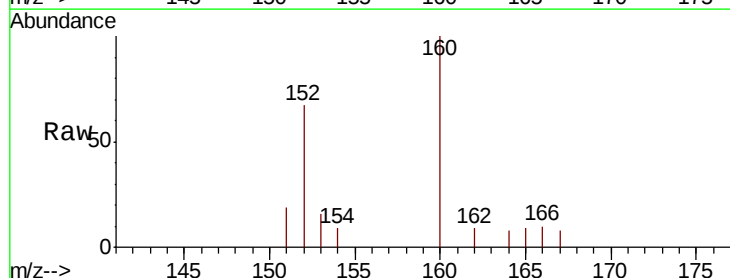
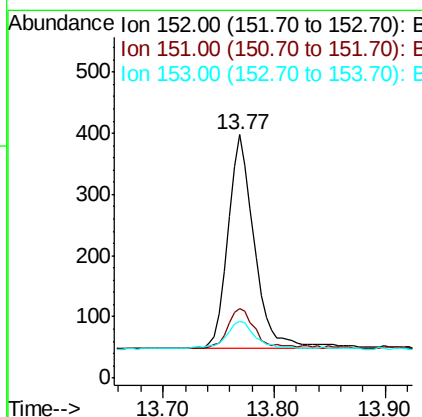
RT: 13.77 min Scan# 2388

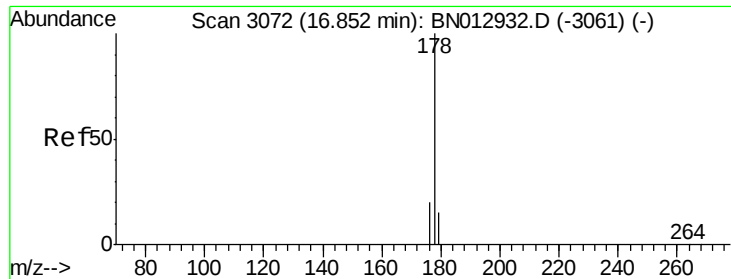
Delta R.T. 0.00 min

Lab File: BN012941.D

Acq: 07 Dec 2020 16:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 562   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 28.4  | 18.2  | 27.4# |
| 153      | 23.4  | 13.1  | 19.7# |





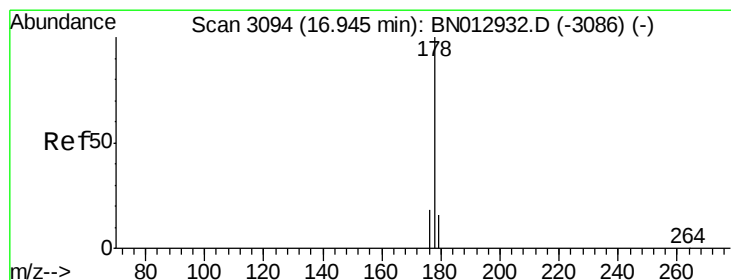
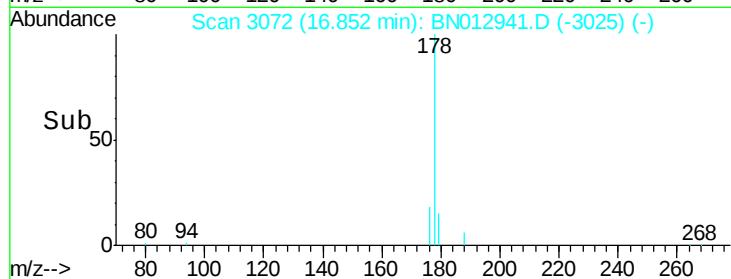
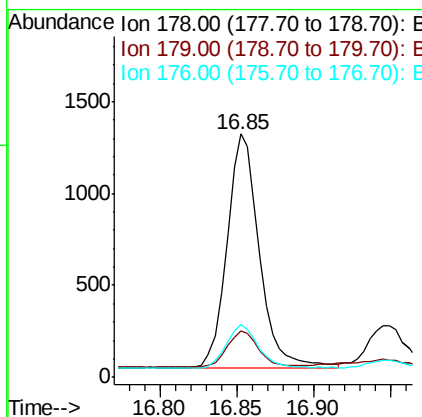
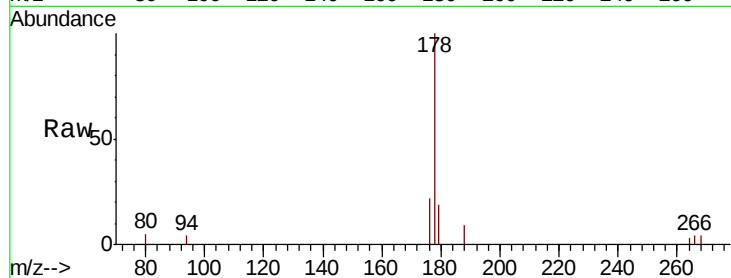
#12  
Phenanthrene  
Concen: 0.122 ng/ul  
RT: 16.85 min Scan# 3072  
Delta R.T. 0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

Instrument :  
BNA\_N  
ClientSampleId :  
C0B27DL

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 1864      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 19.2  | 13.6 20.4 |
| 176         | 21.5  | 16.4 24.6 |

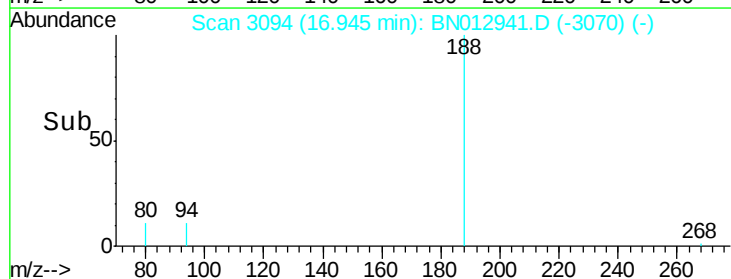
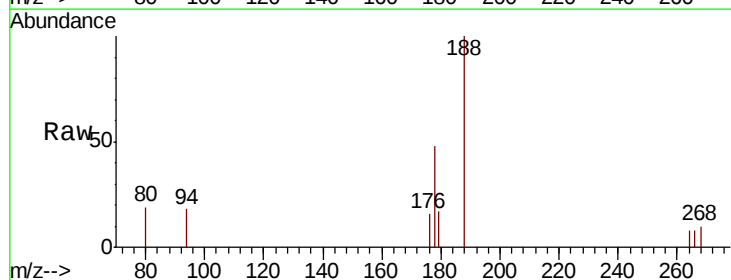
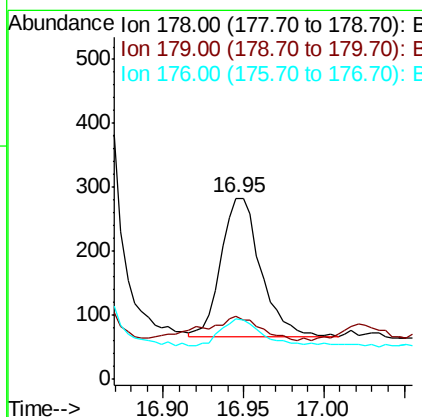
Manual Integrations  
APPROVED

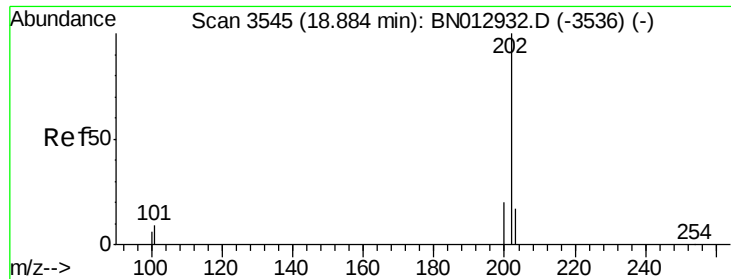
mohammad  
12/9/2020 12:21:06 PM



#13  
Anthracene  
Concen: 0.028 ng/ul  
RT: 16.95 min Scan# 3094  
Delta R.T. 0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 370        |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 179         | 34.6  | 14.6 21.8# |
| 176         | 32.9  | 17.1 25.7# |





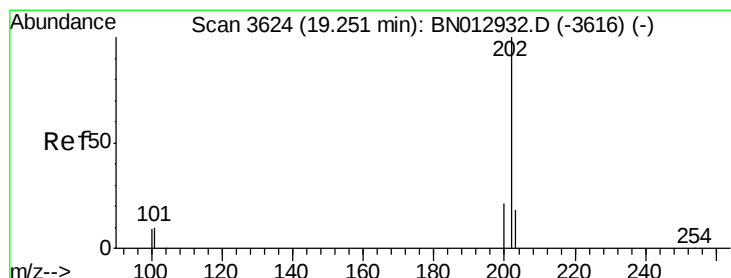
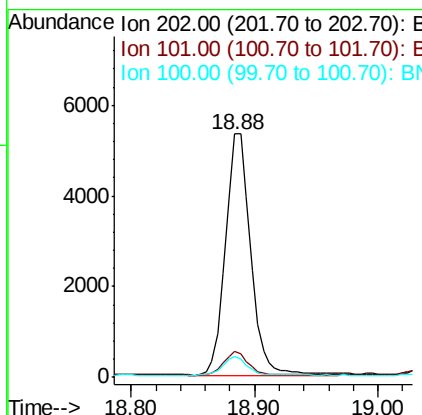
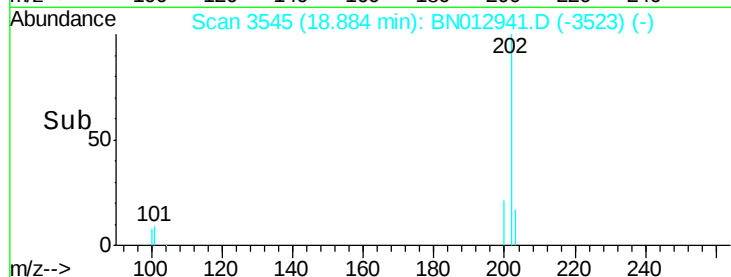
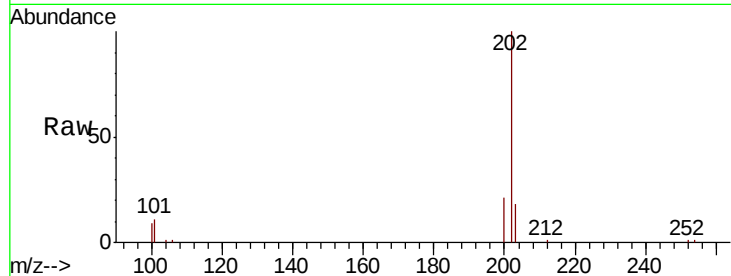
#15  
**Fluoranthene**  
 Concen: 0.415 ng/ul  
 RT: 18.88 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: BN012941.D  
 Acq: 07 Dec 2020 16:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0B27DL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 7572 |       |       |
| 101     | 10.5  |      | 0.0   | 30.6  |
| 100     | 8.8   |      | 0.0   | 28.7  |

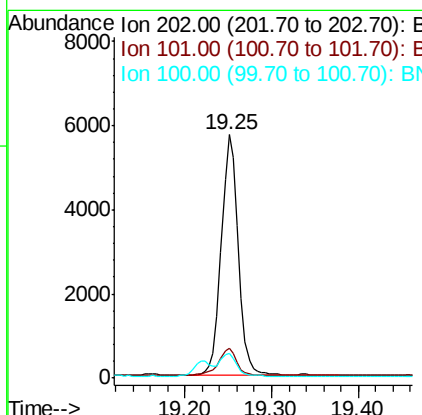
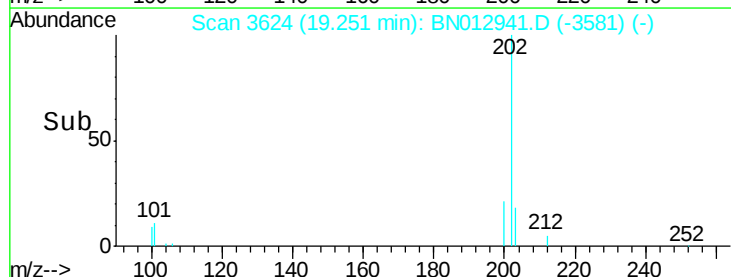
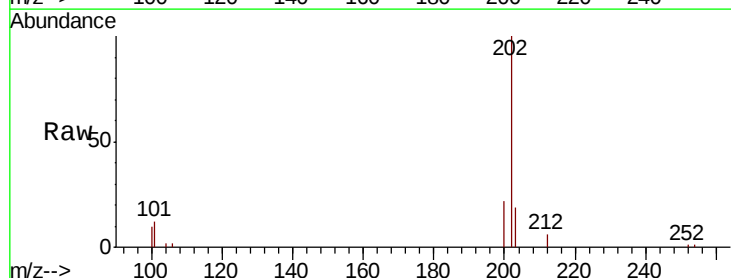
Manual Integrations  
 APPROVED

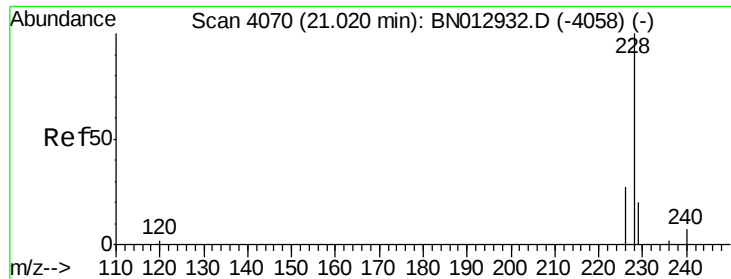
mohammad  
 12/9/2020 12:21:06 PM



#17  
**Pyrene**  
 Concen: 0.451 ng/ul  
 RT: 19.25 min Scan# 3624  
 Delta R.T. 0.00 min  
 Lab File: BN012941.D  
 Acq: 07 Dec 2020 16:17

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   | 7846 |       |       |
| 101     | 12.1  |      | 9.1   | 13.7  |
| 100     | 10.1  |      | 7.5   | 11.3  |





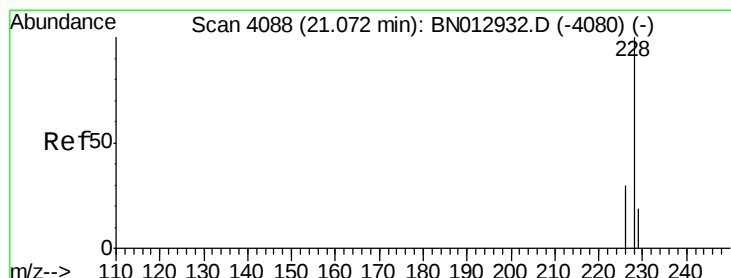
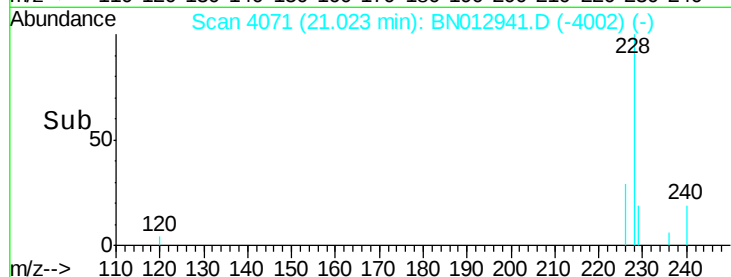
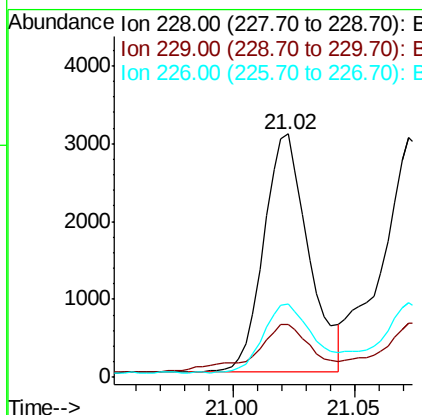
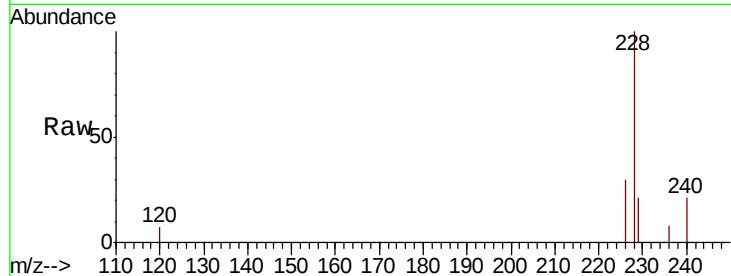
#18  
Benzo(a)anthracene  
Concen: 0.257 ng/ul  
RT: 21.02 min Scan# 4071  
Delta R.T. 0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

Instrument :  
BNA\_N  
ClientSampleId :  
C0B27DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.5  | 16.3  | 24.5  |
| 226     | 30.3  | 23.4  | 35.2  |

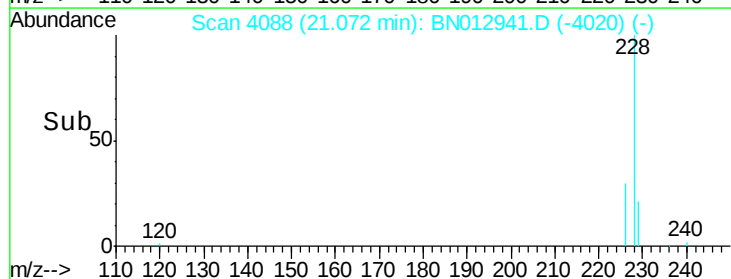
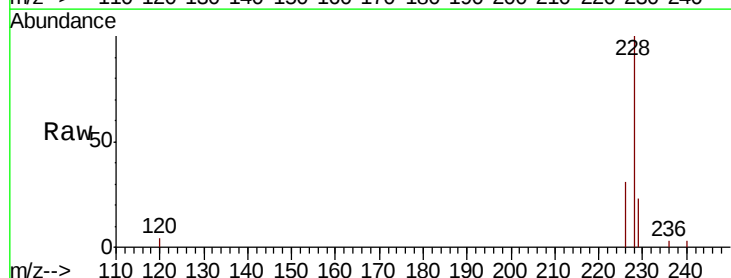
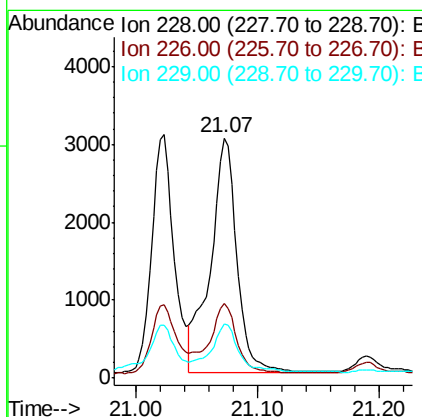
Manual Integrations  
APPROVED

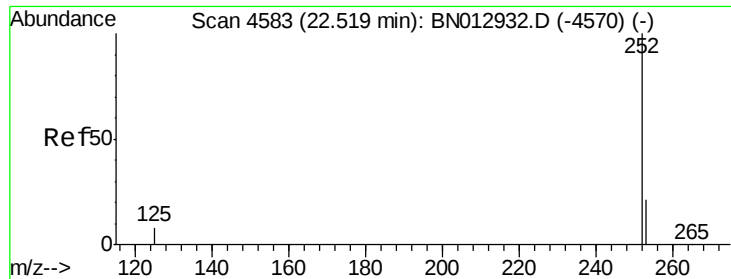
mohammad  
12/9/2020 12:21:06 PM



#19  
Chrysene  
Concen: 0.273 ng/ul  
RT: 21.07 min Scan# 4088  
Delta R.T. 0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 25.0  | 37.6  |
| 229     | 22.8  | 16.4  | 24.6  |





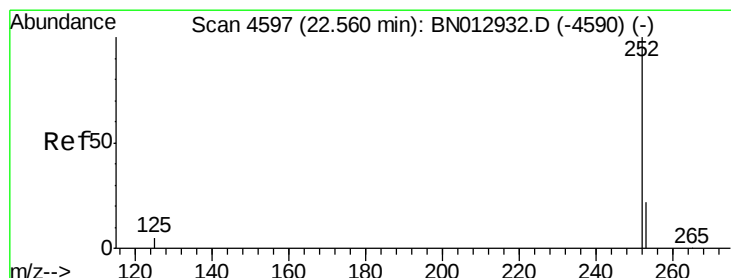
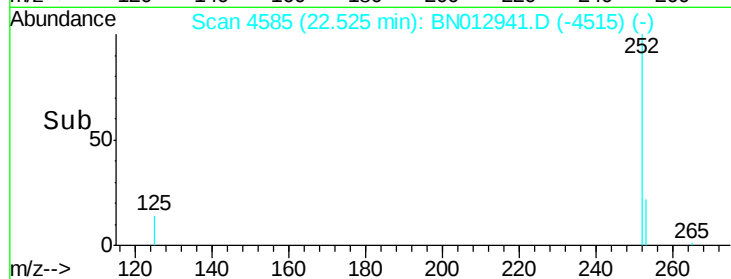
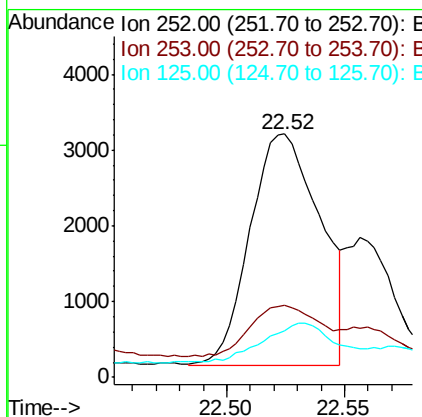
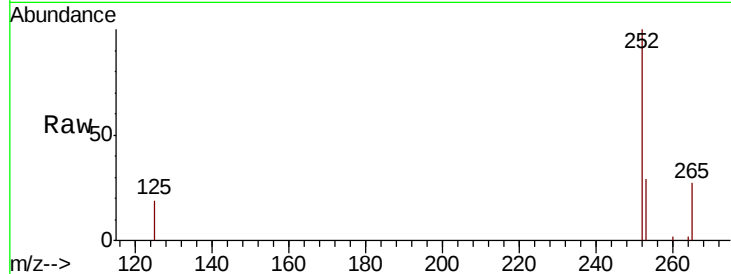
#21  
Benzo(b)fluoranthene  
Concen: 0.395 ng/ul m  
RT: 22.52 min Scan# 4585  
Delta R.T. 0.01 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

Instrument :  
BNA\_N  
ClientSampleId :  
C0B27DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.4  | 0.0   | 59.6  |
| 125     | 18.9  | 0.0   | 26.0  |

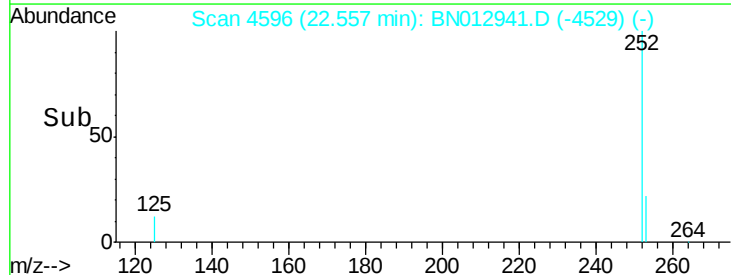
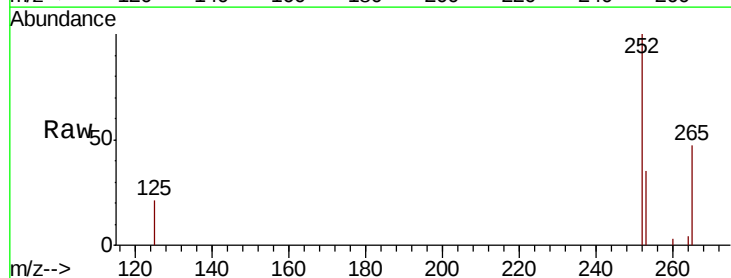
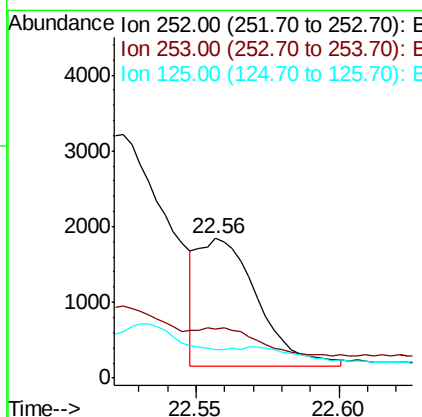
Manual Integrations  
APPROVED

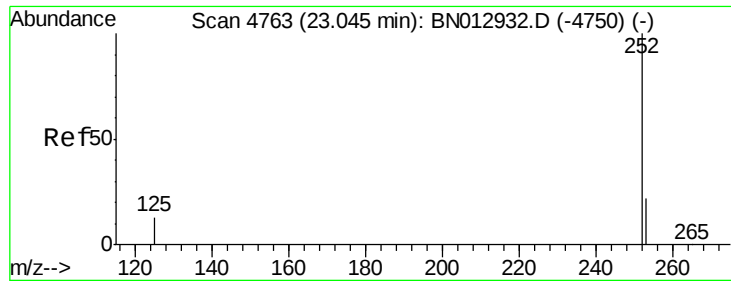
mohammad  
12/9/2020 12:21:06 PM



#22  
Benzo(k)fluoranthene  
Concen: 0.137 ng/ul m  
RT: 22.56 min Scan# 4596  
Delta R.T. -0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.3  | 23.4  | 35.2# |
| 125     | 20.9  | 11.1  | 16.7# |





#23

Benzo(a)pyrene

Concen: 0.275 ng/ul m

RT: 23.05 min Scan# 4764

Delta R.T. 0.00 min

Lab File: BN012941.D

Acq: 07 Dec 2020 16:17

Instrument :

BNA\_N

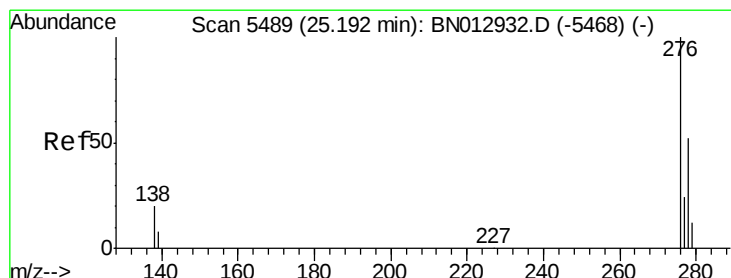
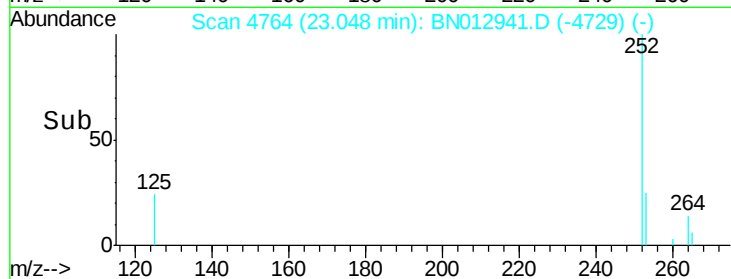
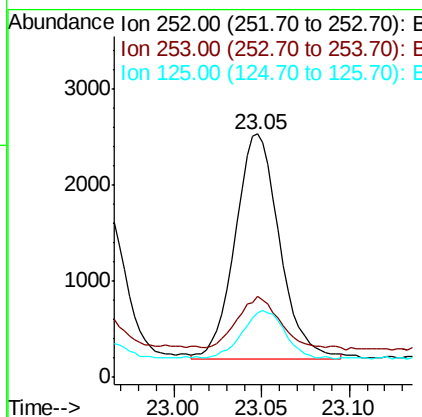
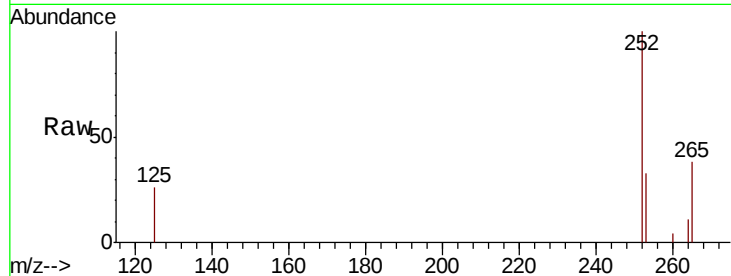
ClientSampleId :

C0B27DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 33.2  | 26.5  | 39.7  |
| 125     | 26.3  | 14.2  | 21.2  |

Manual Integrations  
APPROVED

mohammad  
12/9/2020 12:21:06 PM



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.137 ng/ul

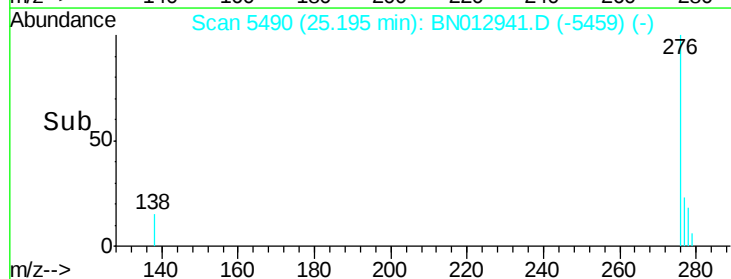
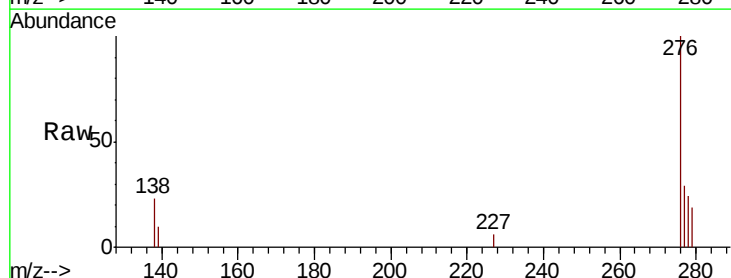
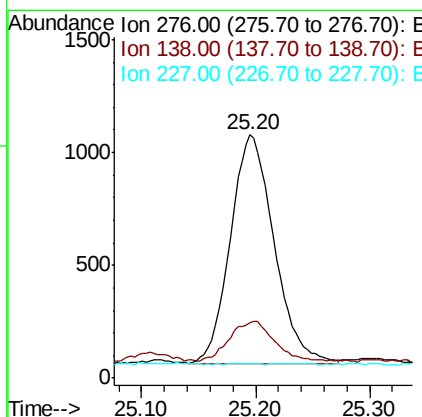
RT: 25.20 min Scan# 5490

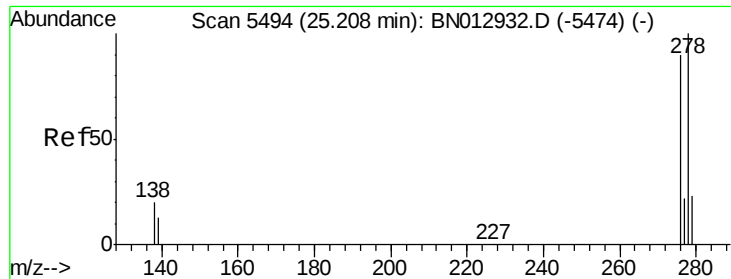
Delta R.T. 0.00 min

Lab File: BN012941.D

Acq: 07 Dec 2020 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.9  | 16.2  | 24.2  |
| 227     | 0.3   | 0.0   | 0.0   |





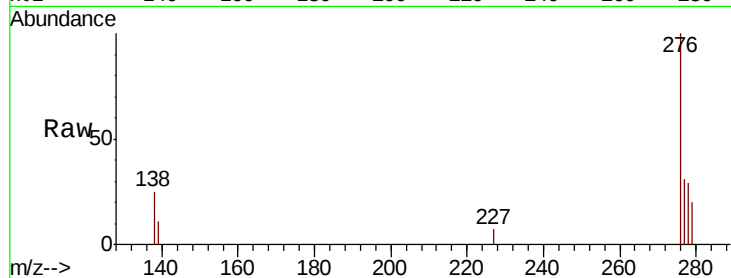
#25  
Dibenzo(a,h)anthracene  
Concen: 0.040 ng/ul  
RT: 25.21 min Scan# 5493  
Delta R.T. -0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

Instrument :  
BNA\_N  
ClientSampleID :  
C0B27DL

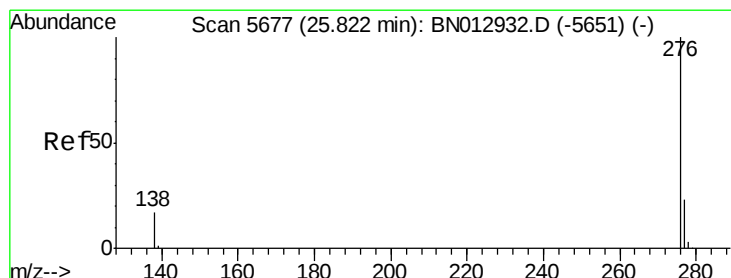
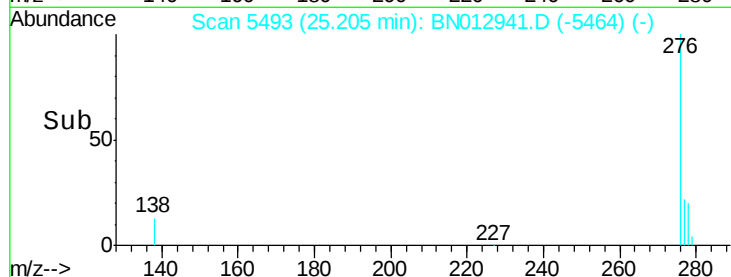
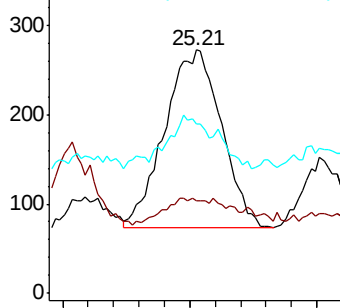
| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 278     | 100  |       |       |       |
| 139     | 37.9 | 14.5  | 21.7# |       |
| 279     | 69.9 | 26.3  | 39.5# |       |

Manual Integrations  
APPROVED

mohammad  
12/9/2020 12:21:06 PM



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.137 ng/ul  
RT: 25.83 min Scan# 5678  
Delta R.T. 0.00 min  
Lab File: BN012941.D  
Acq: 07 Dec 2020 16:17

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 276     | 100  |       |       |       |
| 138     | 25.5 | 16.3  | 24.5# |       |
| 277     | 29.9 | 21.8  | 32.6  |       |

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

