

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN123019\  
 Data File : BN009269.D  
 Acq On : 30 Dec 2019 20:42  
 Operator : JU  
 Sample : K6322-10DL 5X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0C94DL

Manual Integrations  
 APPROVED

mohammad  
 12/31/2019 12:12:43 PM

Quant Time: Dec 31 01:53:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 31 00:59:26 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.51  | 152  | 2685     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.26 | 136  | 9712     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.13 | 164  | 5030     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.89 | 188  | 9614     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.08 | 240  | 7324     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 7537     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.86 | 152  | 508      | 0.03   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.92 | 212  | 926      | 0.03   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.85 | 152  | 1621     | 0.061  | ng/ul# | 89       |
| 9) Fluorene                 | 15.19 | 166  | 622      | 0.025  | ng/ul# | 96       |
| 12) Phenanthrene            | 16.92 | 178  | 11215    | 0.335  | ng/ul  | 99       |
| 13) Anthracene              | 17.02 | 178  | 2359     | 0.079  | ng/ul# | 91       |
| 15) Fluoranthene            | 18.95 | 202  | 23865    | 0.624  | ng/ul  | 99       |
| 17) Pyrene                  | 19.31 | 202  | 20699    | 0.554  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.07 | 228  | 8526     | 0.262  | ng/ul  | 97       |
| 19) Chrysene                | 21.12 | 228  | 8376     | 0.256  | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 22.59 | 252  | 10710m   | 0.304  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.62 | 252  | 4256m    | 0.120  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.12 | 252  | 7925     | 0.257  | ng/ul  | 93       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.31 | 276  | 5488     | 0.163  | ng/ul# | 89       |
| 25) Dibenzo(a,h)anthracene  | 25.31 | 278  | 1190     | 0.045  | ng/ul# | 55       |
| 26) Benzo(g,h,i)perylene    | 25.93 | 276  | 5502     | 0.194  | ng/ul  | 97       |

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

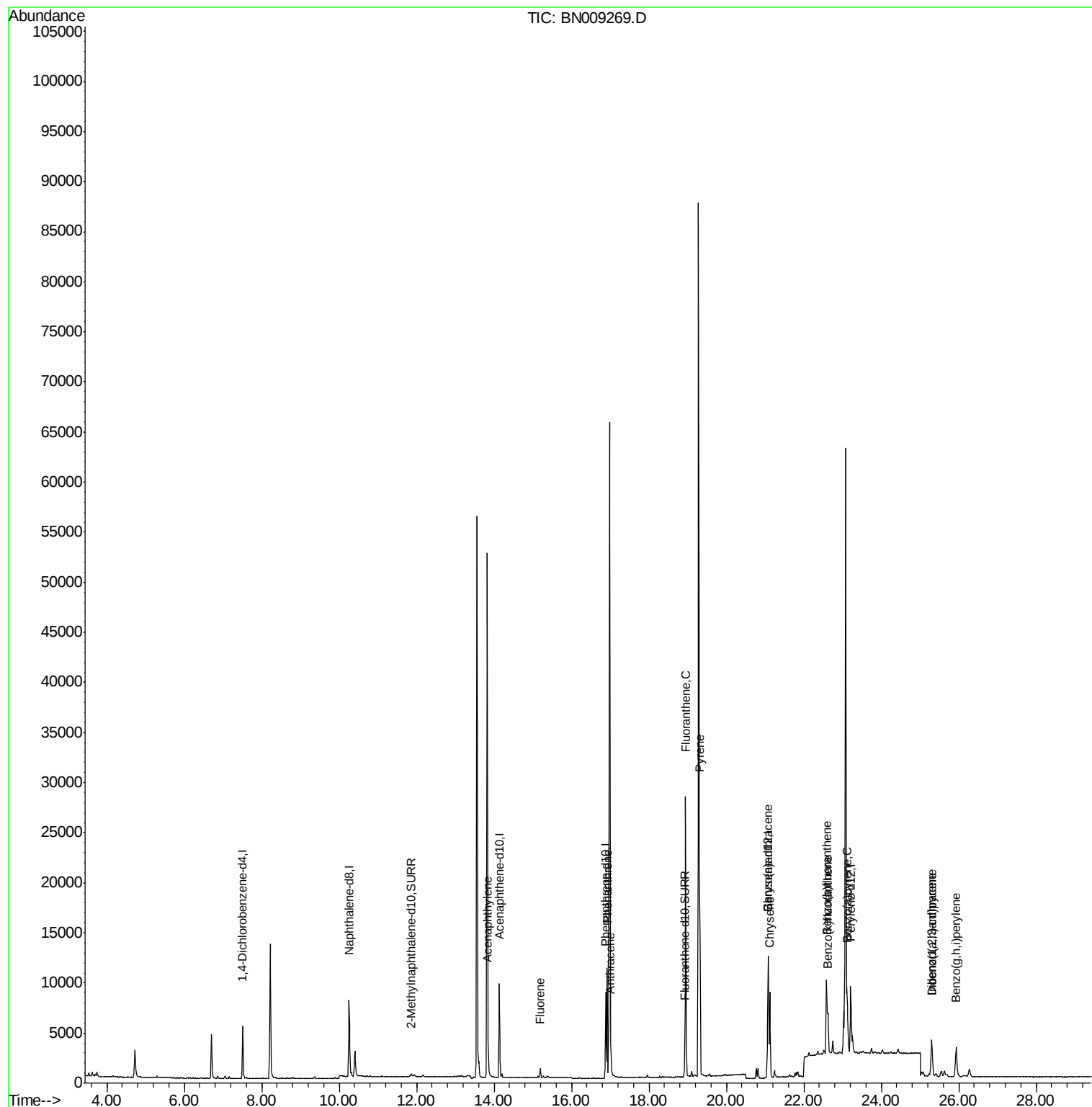
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN123019\  
Data File : BN009269.D  
Acq On : 30 Dec 2019 20:42  
Operator : JU  
Sample : K6322-10DL 5X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

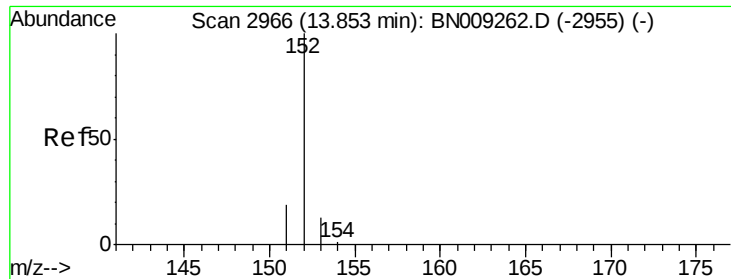
Instrument :  
BNA\_N  
ClientSampleId :  
C0C94DL

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM

Quant Time: Dec 31 01:53:10 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 31 00:59:26 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.061 ng/ul

RT: 13.85 min Scan# 2966

Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

Instrument :

BNA\_N

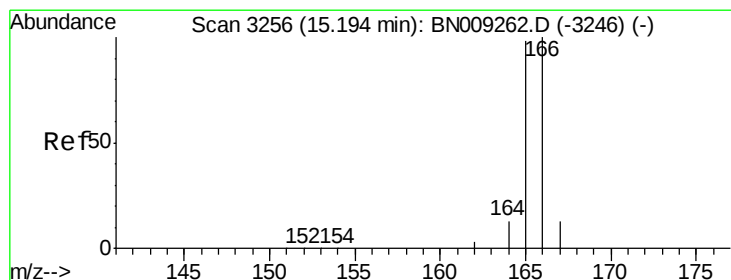
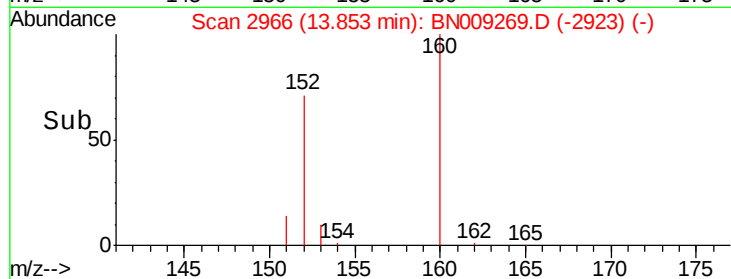
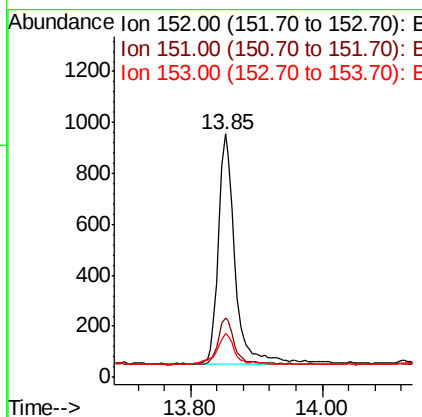
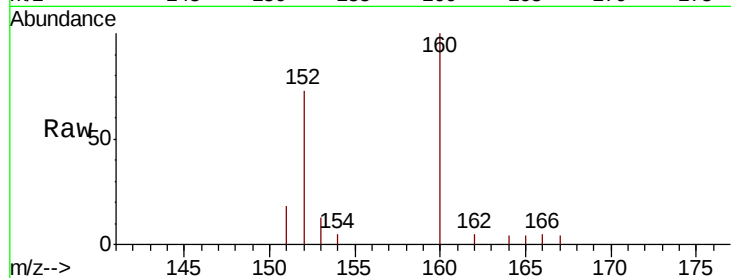
ClientSampleId :

C0C94DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1621  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 24.4  | 15.7  | 23.5# |
| 153       | 18.2  | 10.8  | 16.2# |

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM



#9

Fluorene

Concen: 0.025 ng/ul

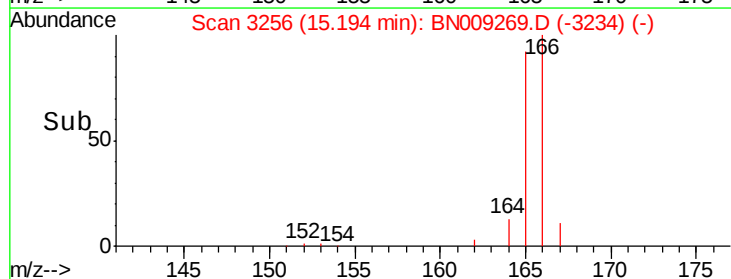
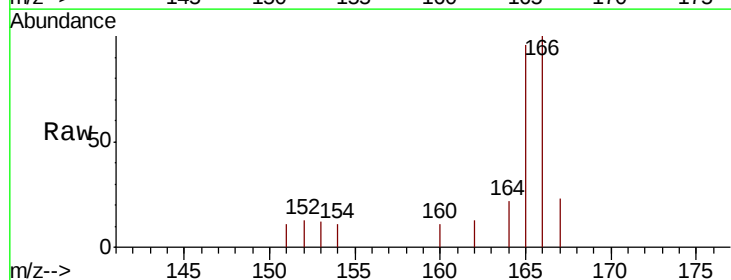
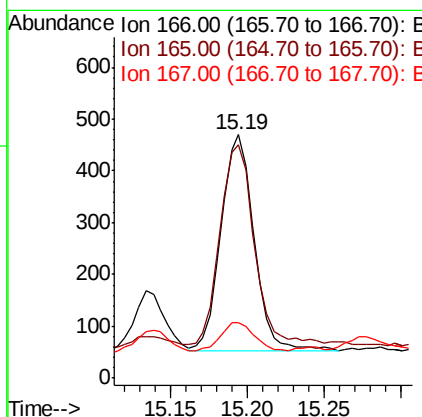
RT: 15.19 min Scan# 3256

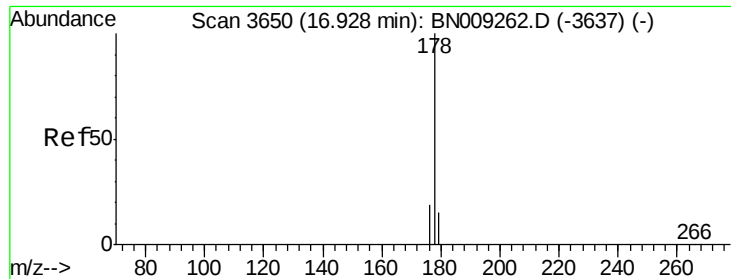
Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 622   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.0  | 78.2  | 117.4 |
| 167       | 22.8  | 11.0  | 16.6# |





#12

Phenanthrene

Concen: 0.335 ng/ul

RT: 16.92 min Scan# 3649

Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

Instrument :

BNA\_N

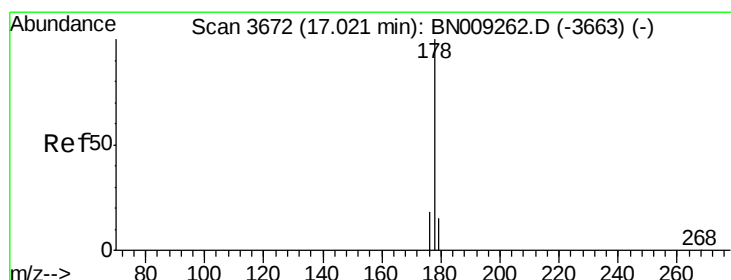
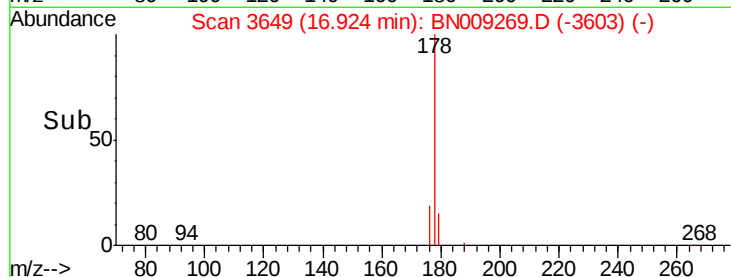
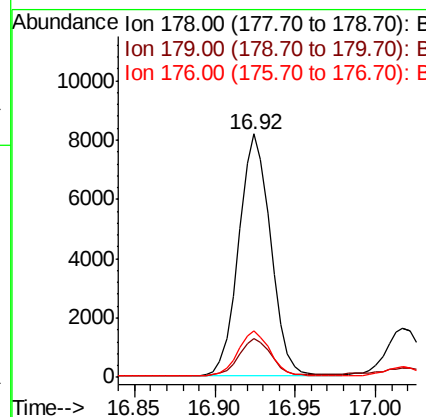
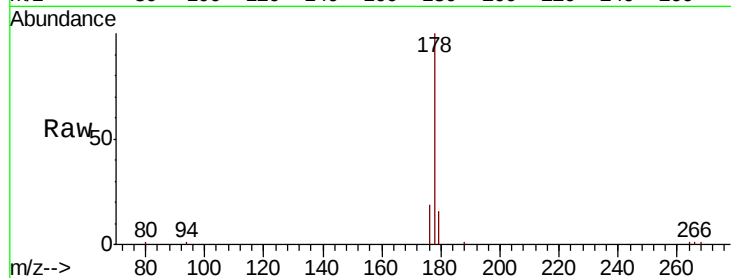
ClientSampleId :

C0C94DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 11215 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 12.3  | 18.5  |
| 176       | 19.2  | 15.1  | 22.7  |

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM



#13

Anthracene

Concen: 0.079 ng/ul

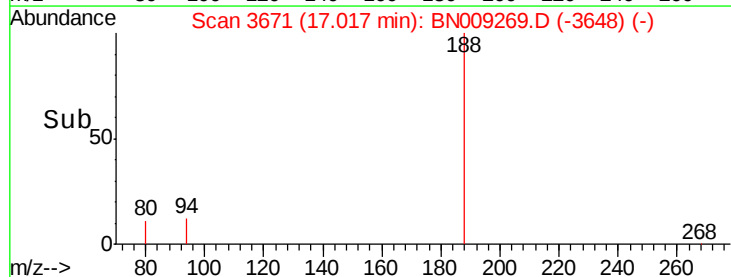
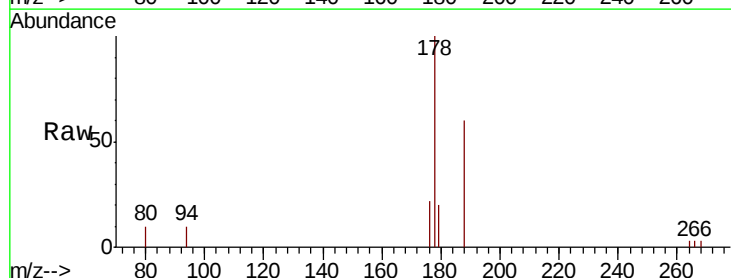
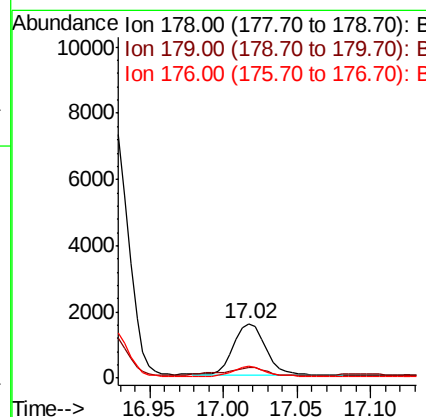
RT: 17.02 min Scan# 3671

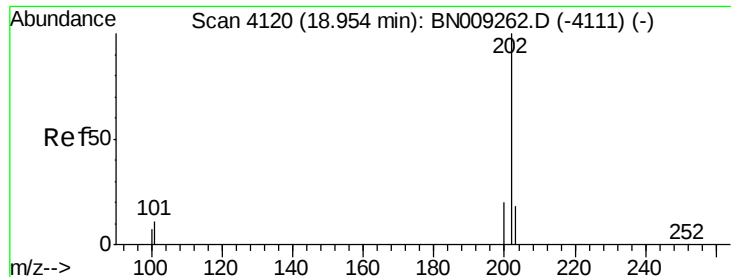
Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 2359  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 19.8  | 12.5  | 18.7# |
| 176       | 22.3  | 14.9  | 22.3  |





#15

Fluoranthene

Concen: 0.624 ng/ul

RT: 18.95 min Scan# 4119

Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

Instrument :

BNA\_N

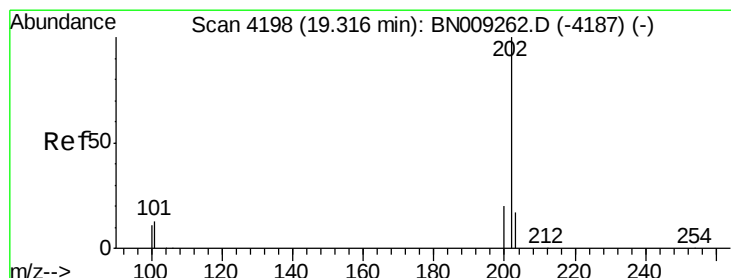
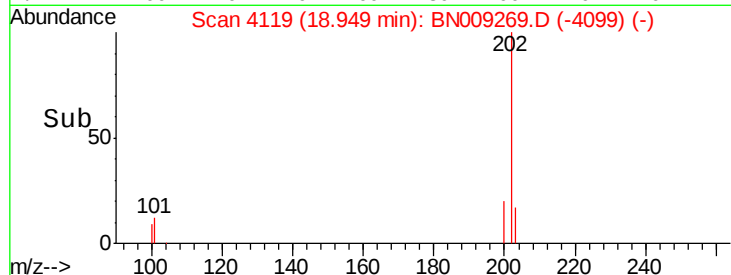
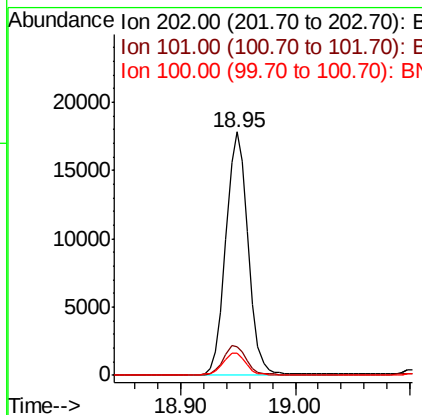
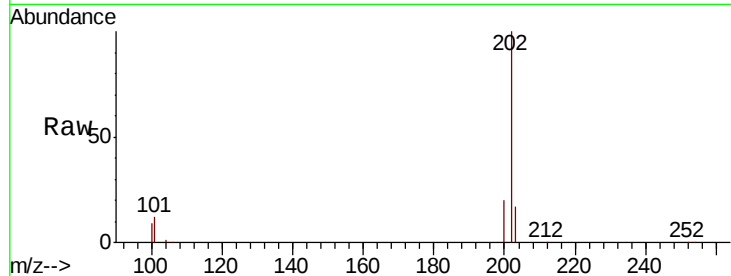
ClientSampleId :

C0C94DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 23865 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.0  | 0.0   | 31.5  |
| 100       | 9.0   | 0.0   | 28.9  |

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM



#17

Pyrene

Concen: 0.554 ng/ul

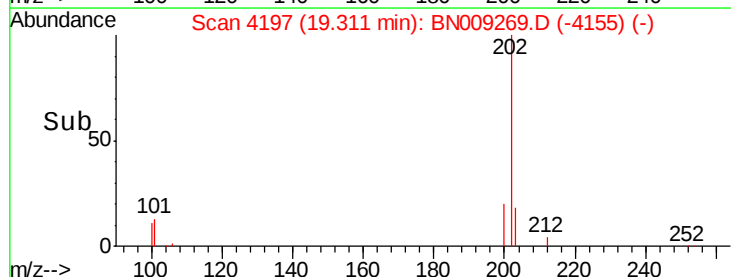
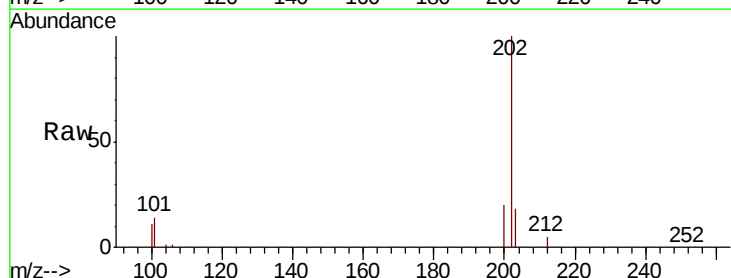
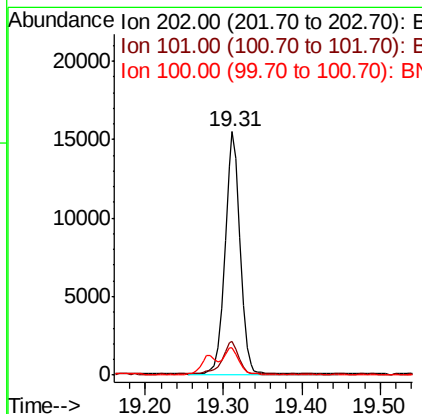
RT: 19.31 min Scan# 4197

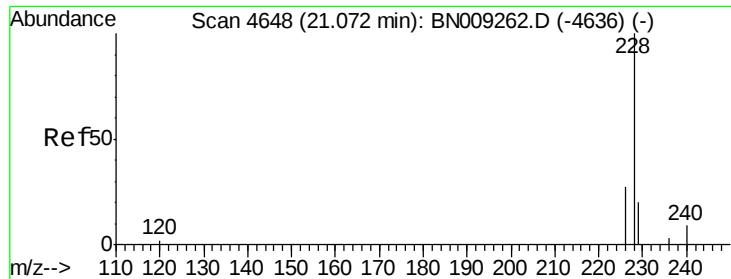
Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 20699 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.8  | 10.9  | 16.3  |
| 100       | 11.3  | 9.0   | 13.6  |





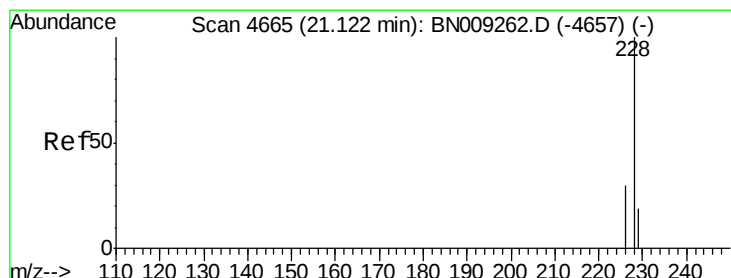
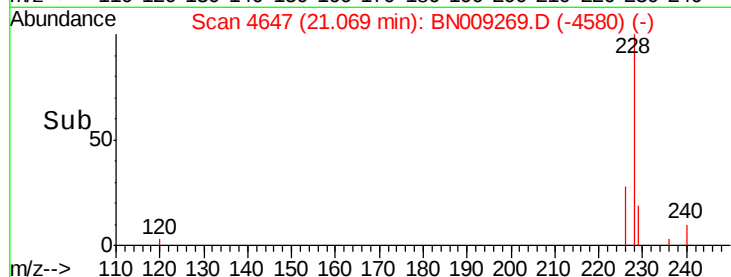
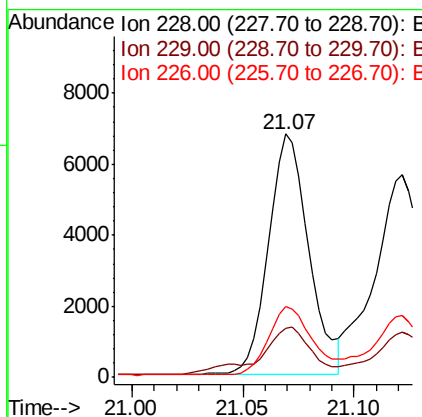
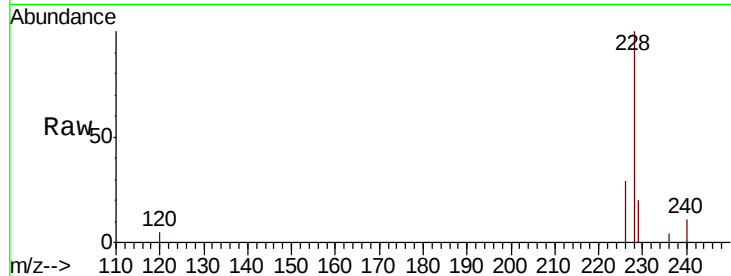
#18  
Benzo(a)anthracene  
Concen: 0.262 ng/ul  
RT: 21.07 min Scan# 4647  
Delta R.T. -0.00 min  
Lab File: BN009269.D  
Acq: 30 Dec 2019 20:42

Instrument :  
BNA\_N  
ClientSampleId :  
C0C94DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.2  | 15.5  | 23.3  |
| 226     | 28.9  | 21.7  | 32.5  |

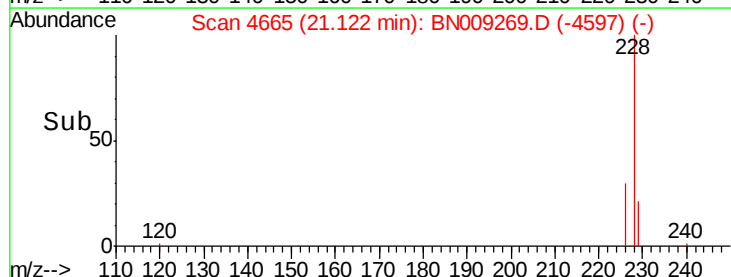
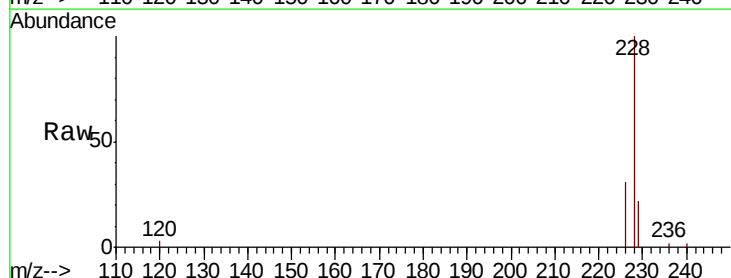
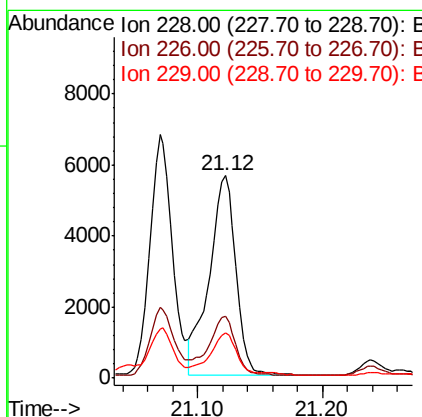
Manual Integrations  
APPROVED

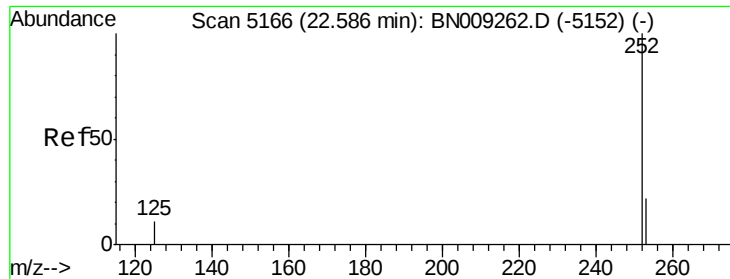
mohammad  
12/31/2019 12:12:43 PM



#19  
Chrysene  
Concen: 0.256 ng/ul  
RT: 21.12 min Scan# 4665  
Delta R.T. -0.00 min  
Lab File: BN009269.D  
Acq: 30 Dec 2019 20:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 23.7  | 35.5  |
| 229     | 22.3  | 15.4  | 23.0  |





#21

Benzo(b)fluoranthene

Concen: 0.304 ng/ul m

RT: 22.59 min Scan# 5166

Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

Instrument :

BNA\_N

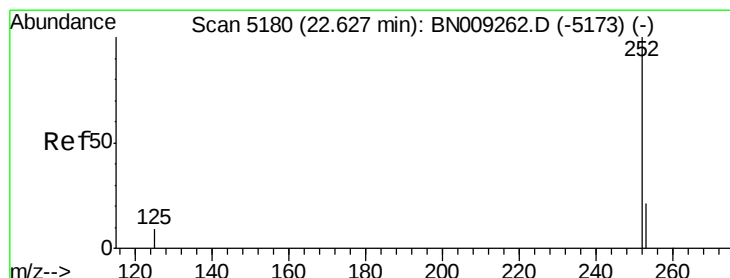
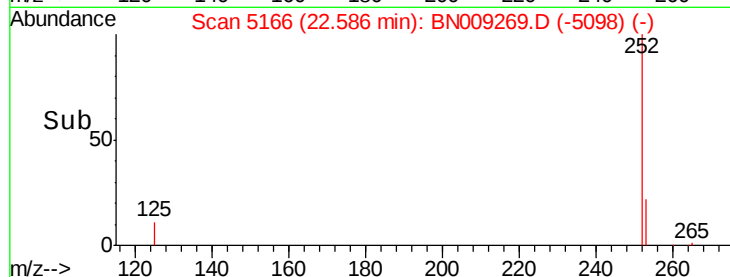
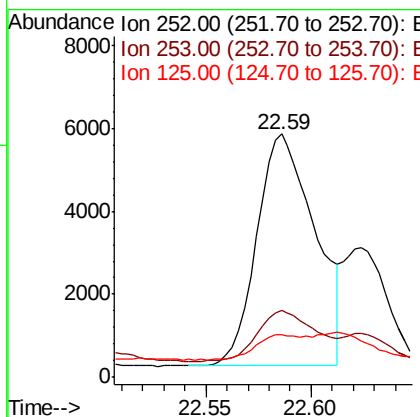
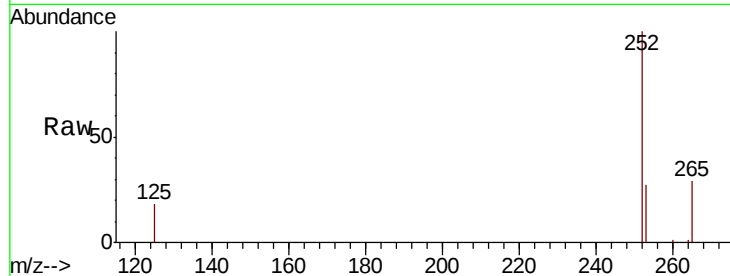
ClientSampleId :

C0C94DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 10710 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.4  | 0.0   | 48.2  |
| 125       | 17.6  | 0.0   | 30.0  |

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM



#22

Benzo(k)fluoranthene

Concen: 0.120 ng/ul m

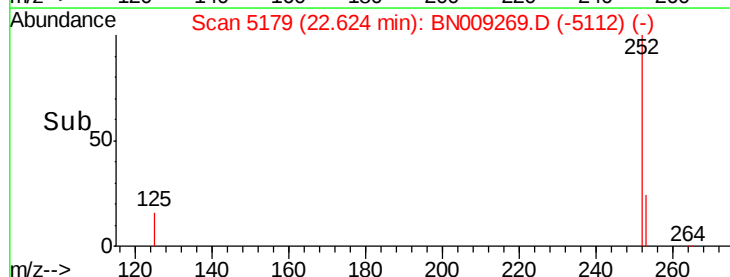
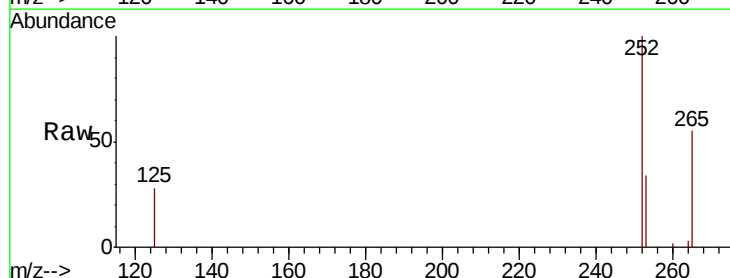
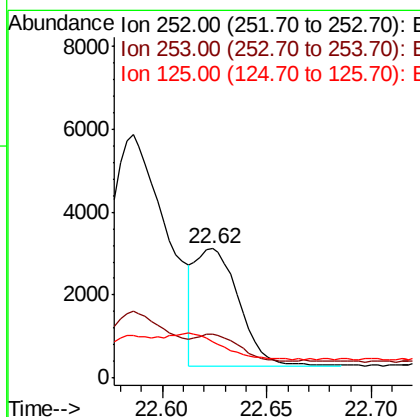
RT: 22.62 min Scan# 5179

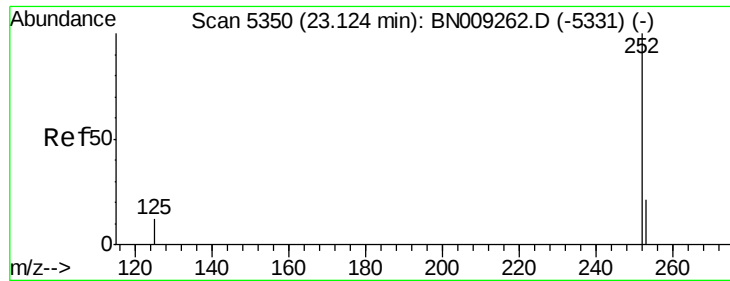
Delta R.T. -0.00 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 4256  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 33.6  | 19.4  | 29.0# |
| 125       | 28.2  | 12.4  | 18.6# |





#23

Benzo(a)pyrene

Concen: 0.257 ng/u1

RT: 23.12 min Scan# 5348

Delta R.T. -0.01 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

Instrument :

BNA\_N

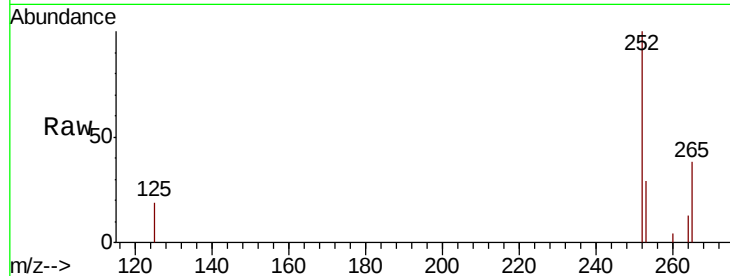
ClientSampleId :

C0C94DL

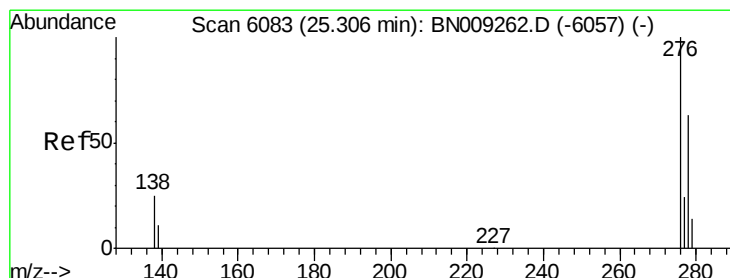
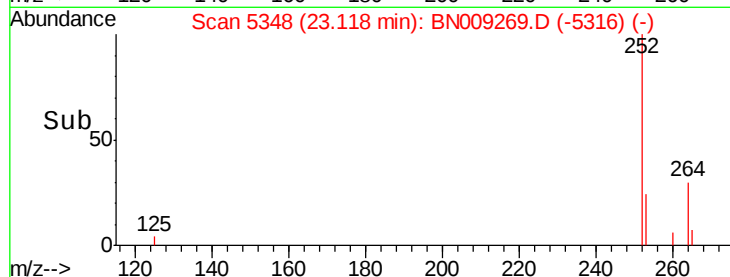
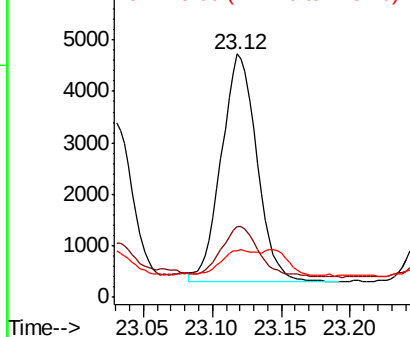
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 252   | Resp: | 7925 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 29.2  | 20.2  | 30.4 |
| 125       | 19.3  | 13.2  | 19.8 |

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.163 ng/u1

RT: 25.31 min Scan# 6083

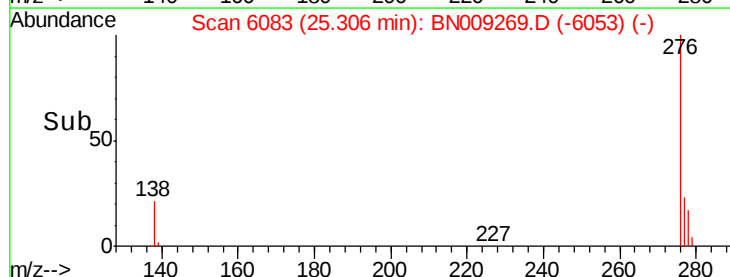
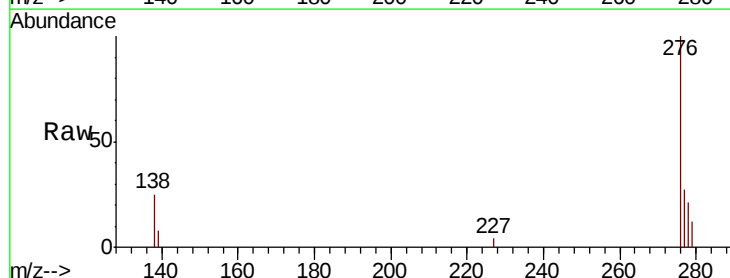
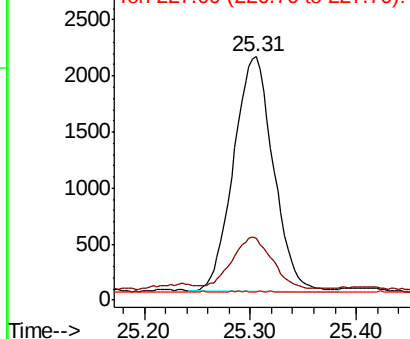
Delta R.T. -0.00 min

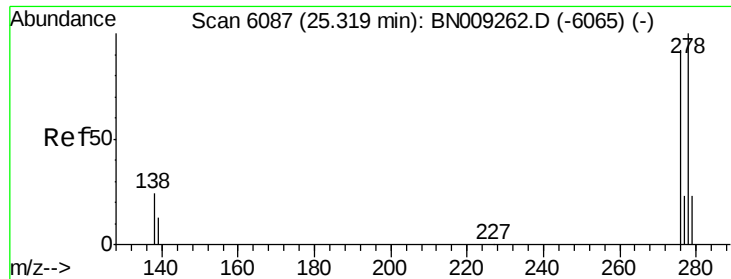
Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 5488  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 21.9  | 22.4  | 33.6# |
| 227       | 0.1   | 0.2   | 0.4#  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.045 ng/u1

RT: 25.31 min Scan# 6084

Delta R.T. -0.01 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

Instrument :

BNA\_N

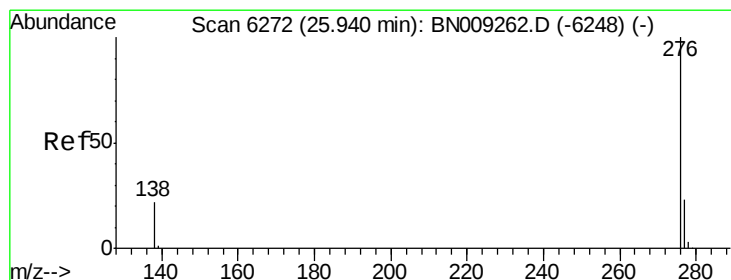
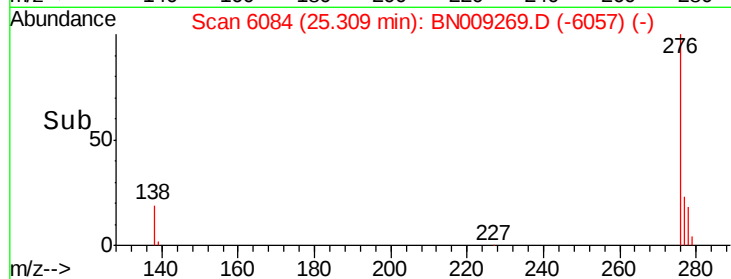
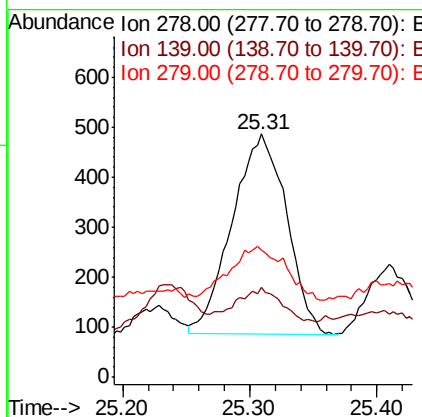
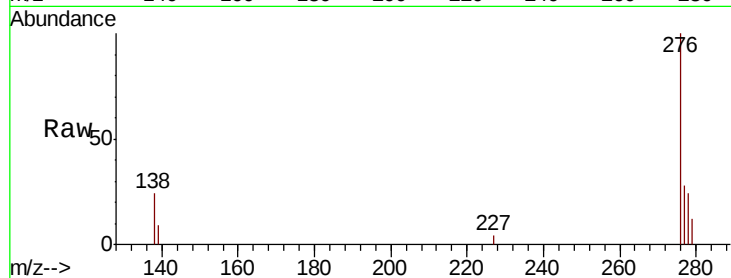
ClientSampleId :

C0C94DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 1190  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 36.8  | 16.2  | 24.2# |
| 279       | 52.2  | 20.3  | 30.5# |

Manual Integrations  
APPROVED

mohammad  
12/31/2019 12:12:43 PM



#26

Benzo(g,h,i)perylene

Concen: 0.194 ng/u1

RT: 25.93 min Scan# 6270

Delta R.T. -0.01 min

Lab File: BN009269.D

Acq: 30 Dec 2019 20:42

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 5502 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 26.2  | 20.6  | 30.8 |
| 277       | 26.6  | 19.6  | 29.4 |

