

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN090420\  
 Data File : BN011713.D  
 Acq On : 04 Sep 2020 22:59  
 Operator : CG/JU  
 Sample : L3840-14  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AB0

Manual Integrations  
 APPROVED

mohammad  
 9/8/2020 1:47:13 PM

Quant Time: Sep 05 02:02:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN081220.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 05 01:53:42 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 1842     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 7027     | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.38 | 164  | 4136     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.12 | 188  | 8883     | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.31 | 240  | 9414     | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.57 | 264  | 9642     | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.12 | 152  | 1984     | 0.20  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.16 | 212  | 4791     | 0.19  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.57 | 128  | 2403     | 0.117 | ng/ul  | 96       |
| 5) 2-Methylnaphthalene      | 12.19 | 142  | 462      | 0.036 | ng/ul  | 94       |
| 7) Acenaphthylene           | 14.10 | 152  | 9114     | 0.438 | ng/ul  | 98       |
| 8) Acenaphthene             | 14.44 | 153  | 761      | 0.047 | ng/ul  | 97       |
| 9) Fluorene                 | 15.43 | 166  | 1335     | 0.070 | ng/ul# | 95       |
| 12) Phenanthrene            | 17.16 | 178  | 10804    | 0.360 | ng/ul  | 98       |
| 13) Anthracene              | 17.26 | 178  | 13425    | 0.543 | ng/ul  | 97       |
| 15) Fluoranthene            | 19.19 | 202  | 40626    | 1.175 | ng/ul  | 99       |
| 17) Pyrene                  | 19.55 | 202  | 85621    | 2.327 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.30 | 228  | 49176    | 1.557 | ng/ul  | 98       |
| 19) Chrysene                | 21.35 | 228  | 105497   | 2.477 | ng/ul  | 100      |
| 21) Benzo(b)fluoranthene    | 22.89 | 252  | 199155m  | 4.752 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.93 | 252  | 72103m   | 1.556 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.47 | 252  | 118897   | 3.376 | ng/ul# | 87       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.83 | 276  | 67539    | 1.418 | ng/ul  | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.84 | 278  | 19275    | 0.497 | ng/ul  | 97       |
| 26) Benzo(a,h,i)perylene    | 26.52 | 276  | 57015    | 1.279 | ng/ul  | 98       |

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

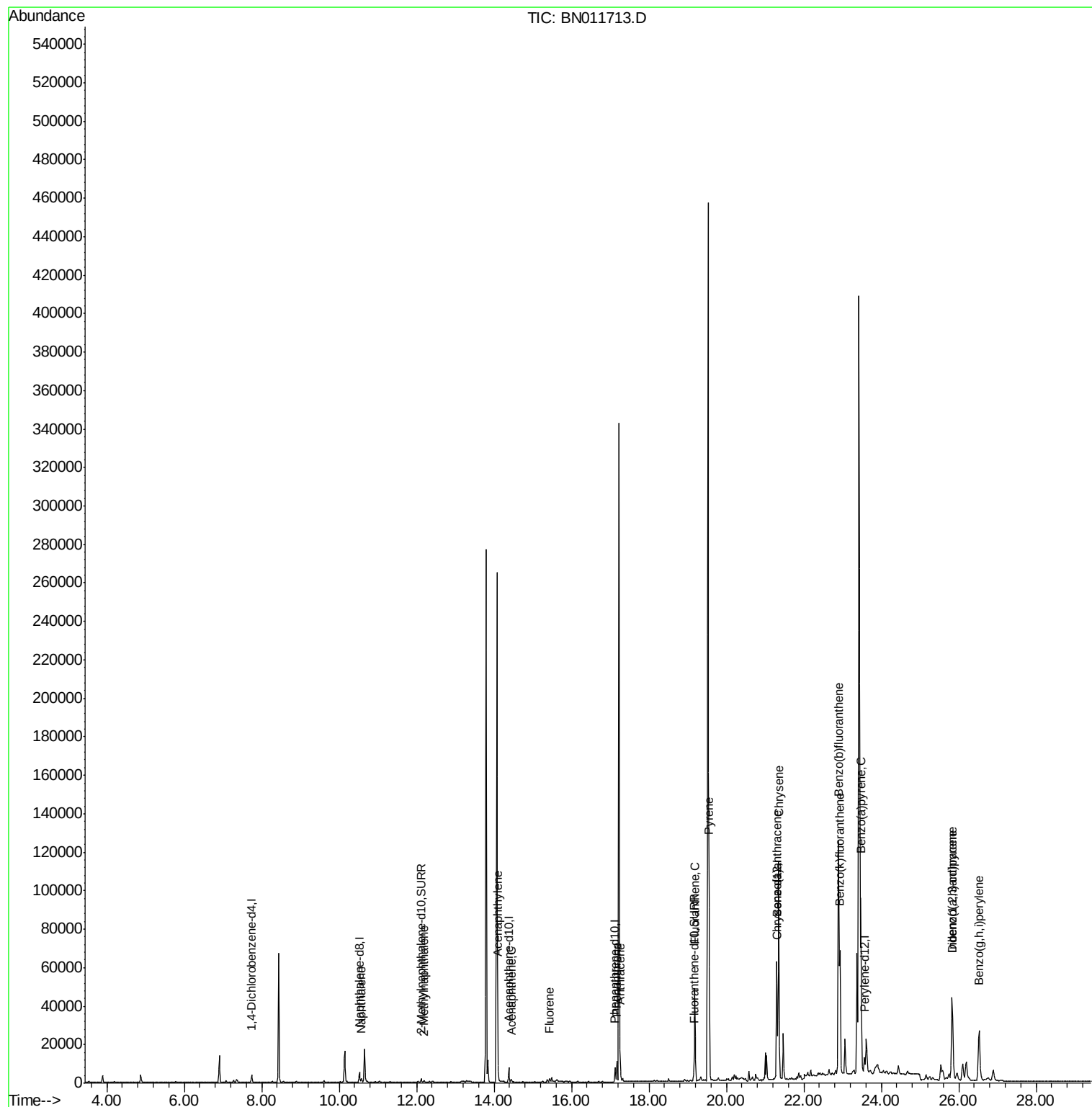
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN090420\  
Data File : BN011713.D  
Acq On : 04 Sep 2020 22:59  
Operator : CG/JU  
Sample : L3840-14  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

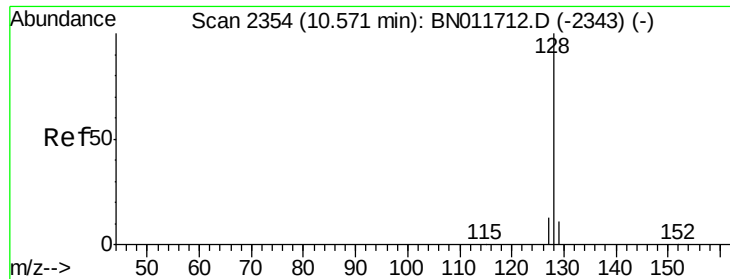
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB0

Quant Time: Sep 05 02:02:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN081220.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 05 01:53:42 2020  
Response via : Initial Calibration

Manual Integrations  
APPROVED

mohammad  
9/8/2020 1:47:13 PM





#3

Naphthalene

Concen: 0.117 ng/ul

RT: 10.57 min Scan# 2354

Delta R.T. -0.00 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

Instrument :

BNA\_N

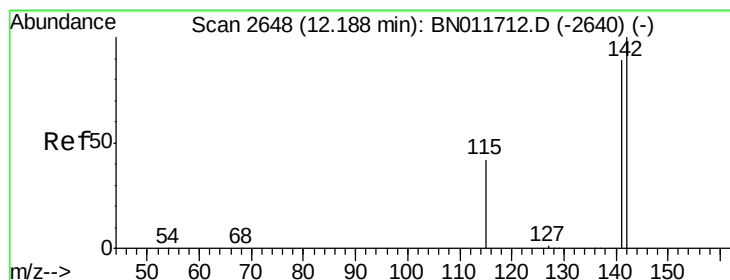
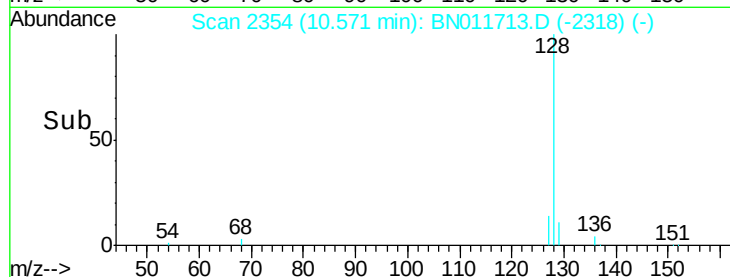
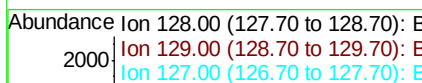
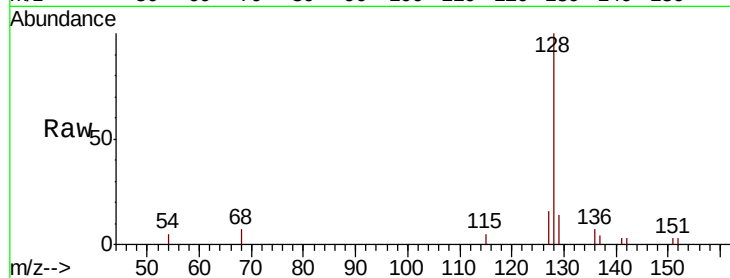
ClientSampleId :

C0AB0

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 2403  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 14.2  | 10.4  | 15.6  |
| 127      | 16.5  | 11.4  | 17.0  |

Manual Integrations  
APPROVED

mohammad  
9/8/2020 1:47:13 PM



#5

2-Methylnaphthalene

Concen: 0.036 ng/ul

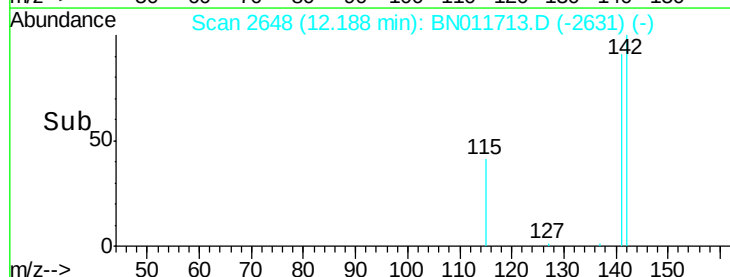
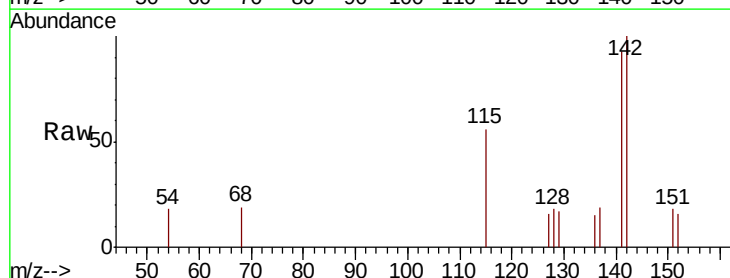
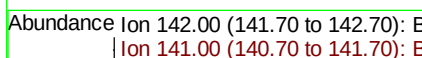
RT: 12.19 min Scan# 2648

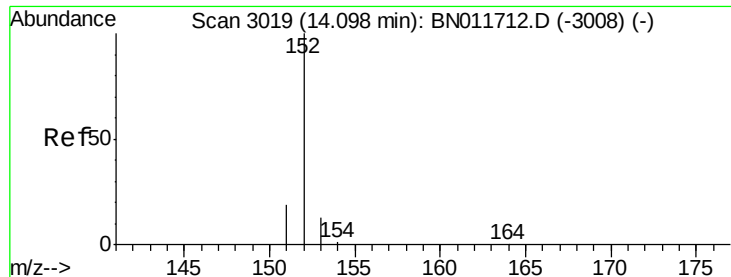
Delta R.T. -0.01 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 462   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 95.5  | 72.1  | 108.1 |





#7

Acenaphthylene

Concen: 0.438 ng/ul

RT: 14.10 min Scan# 3019

Delta R.T. -0.00 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

Instrument :

BNA\_N

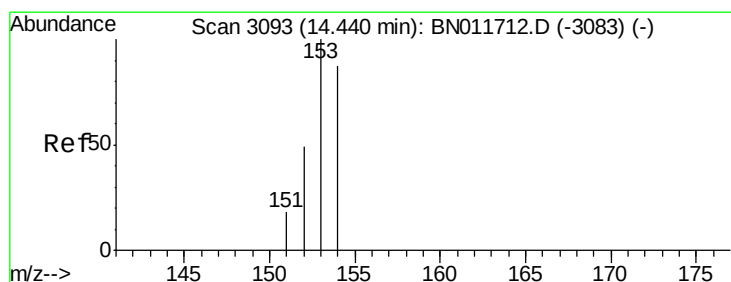
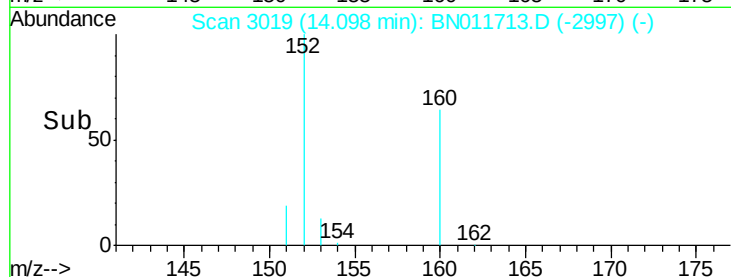
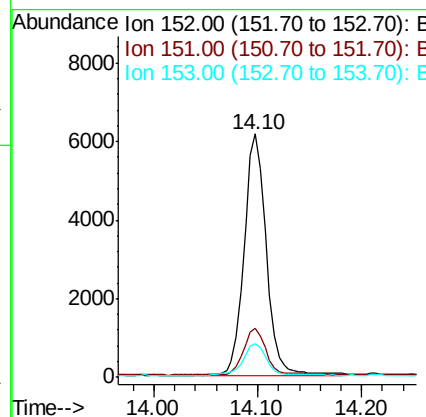
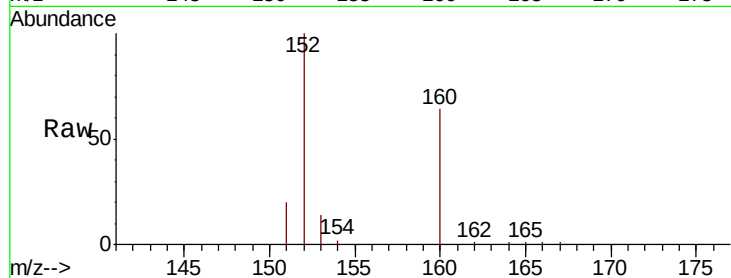
ClientSampleId :

C0AB0

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 9114 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.2  | 16.7  | 25.1 |
| 153       | 13.8  | 12.3  | 18.5 |

Manual Integrations  
APPROVED

mohammad  
9/8/2020 1:47:13 PM



#8

Acenaphthene

Concen: 0.047 ng/ul

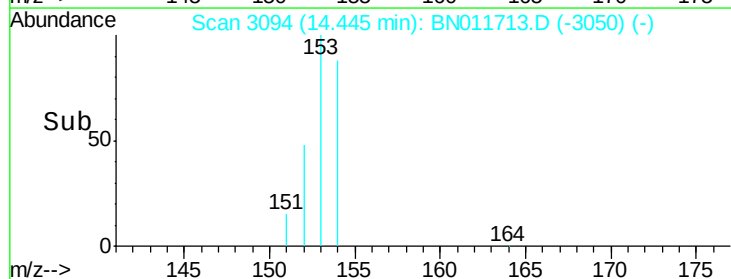
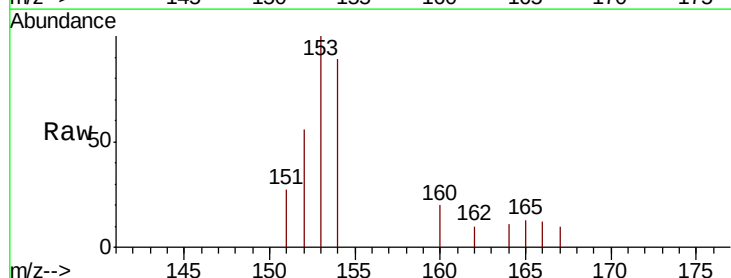
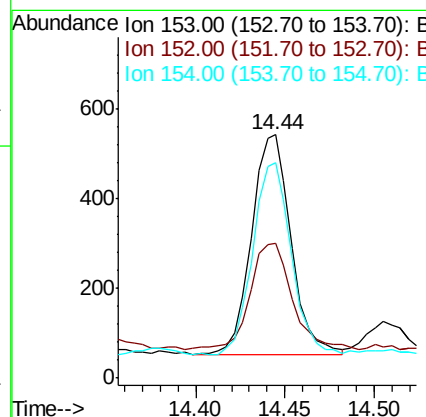
RT: 14.44 min Scan# 3094

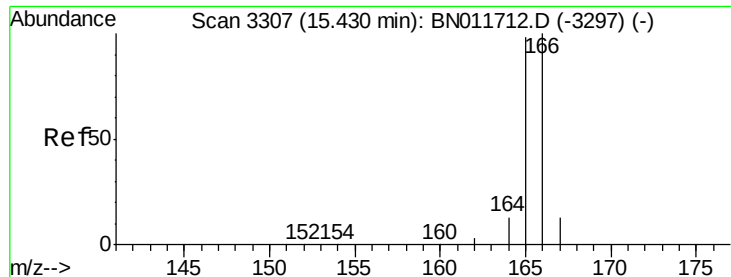
Delta R.T. 0.00 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 761   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 55.6  | 41.0  | 61.6  |
| 154       | 88.6  | 70.2  | 105.2 |





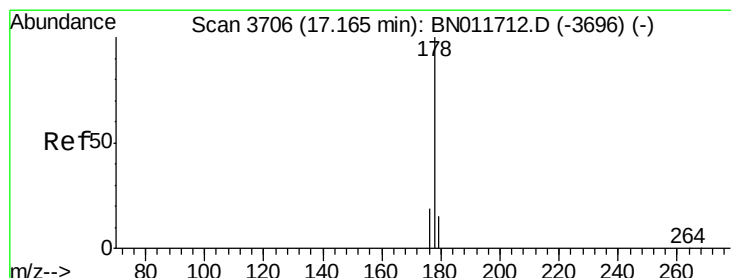
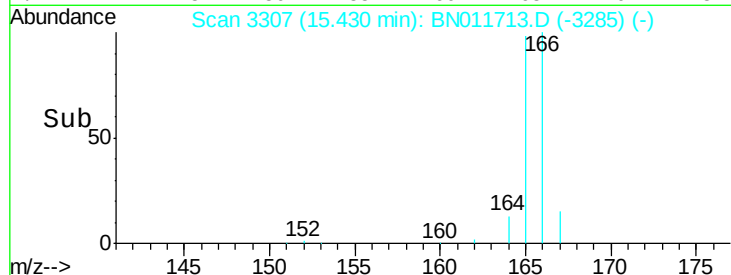
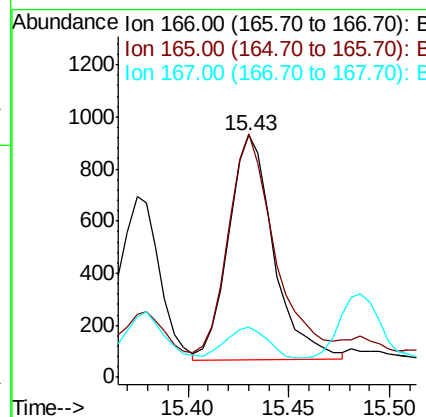
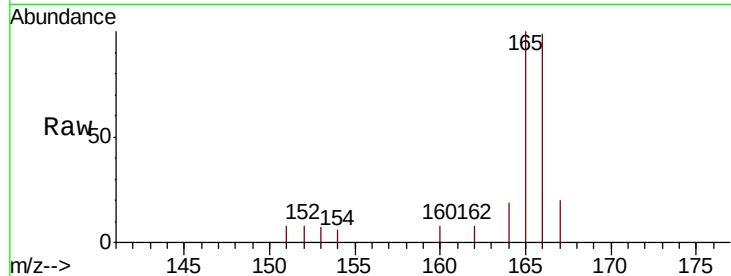
#9  
**Fluorene**  
 Concen: 0.070 ng/ul  
 RT: 15.43 min Scan# 3307  
 Delta R.T. -0.00 min  
 Lab File: BN011713.D  
 Acq: 04 Sep 2020 22:59

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AB0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.6 | 77.7  | 116.5 |
| 167     | 20.6  | 12.5  | 18.7  |

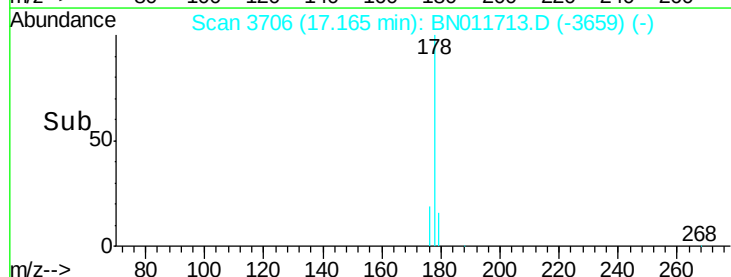
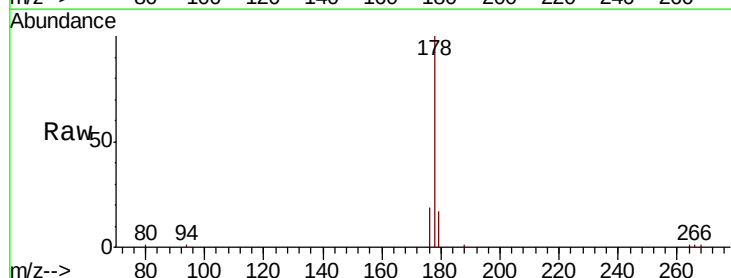
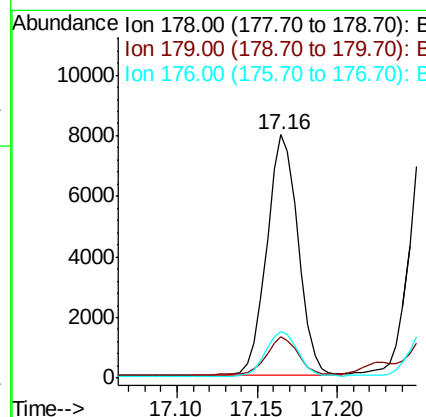
Manual Integrations  
 APPROVED

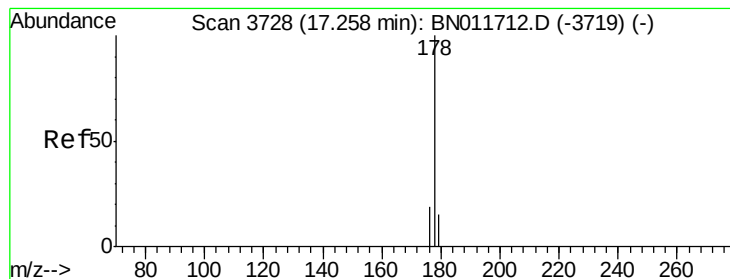
mohammad  
 9/8/2020 1:47:13 PM



#12  
**Phenanthrene**  
 Concen: 0.360 ng/ul  
 RT: 17.16 min Scan# 3706  
 Delta R.T. -0.00 min  
 Lab File: BN011713.D  
 Acq: 04 Sep 2020 22:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.8  | 13.8  | 20.8  |
| 176     | 19.3  | 16.3  | 24.5  |





#13

Anthracene

Concen: 0.543 ng/ul

RT: 17.26 min Scan# 3728

Delta R.T. -0.00 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

Instrument :

BNA\_N

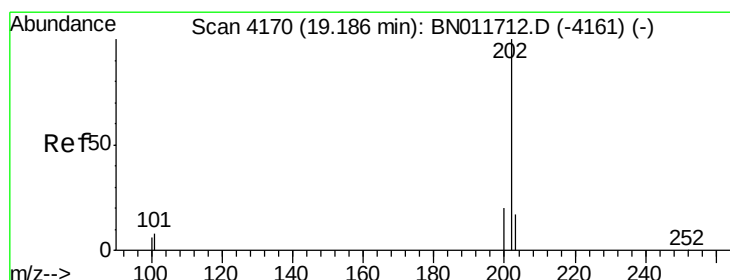
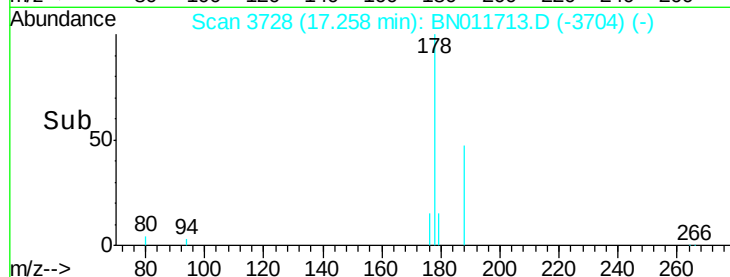
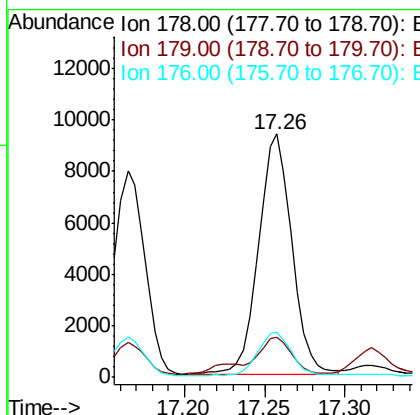
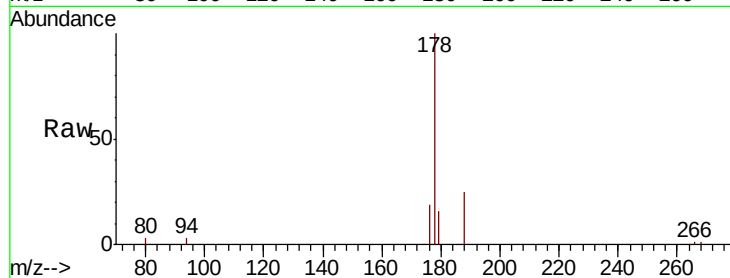
ClientSampleId :

C0AB0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 13425 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.4  | 14.2  | 21.2  |
| 176       | 18.6  | 15.8  | 23.8  |

Manual Integrations  
APPROVED

mohammad  
9/8/2020 1:47:13 PM



#15

Fluoranthene

Concen: 1.175 ng/ul

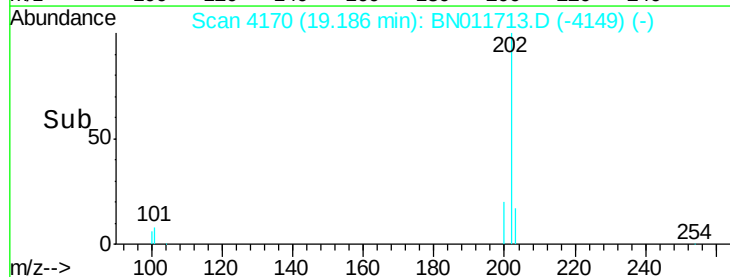
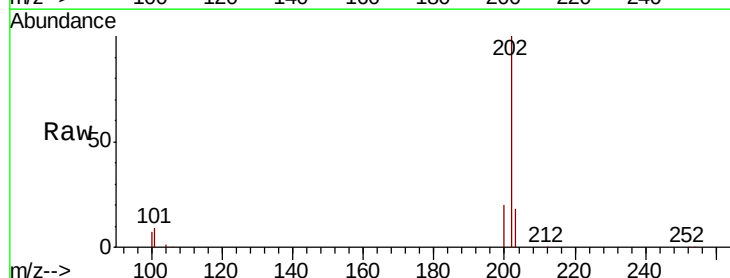
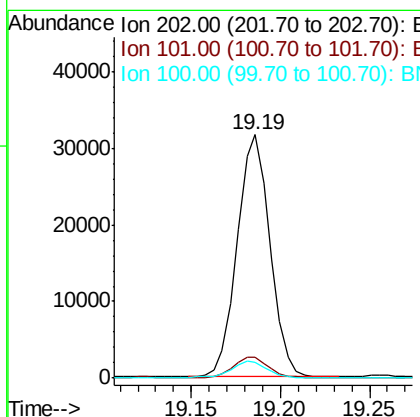
RT: 19.19 min Scan# 4170

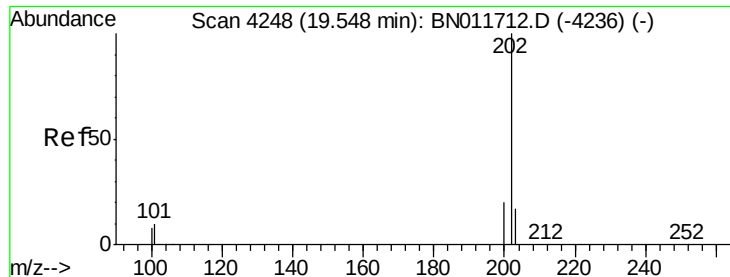
Delta R.T. -0.00 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 40626 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.6   | 0.0   | 28.3  |
| 100       | 6.6   | 0.0   | 27.1  |





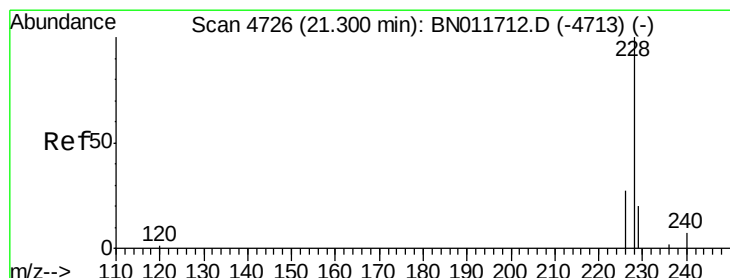
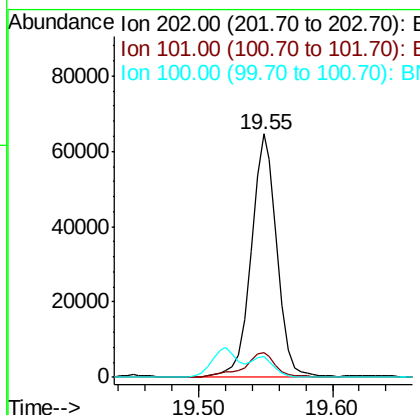
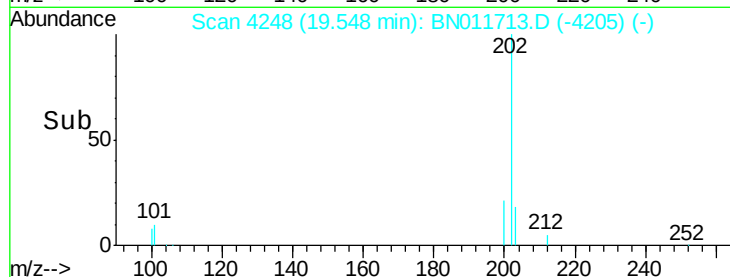
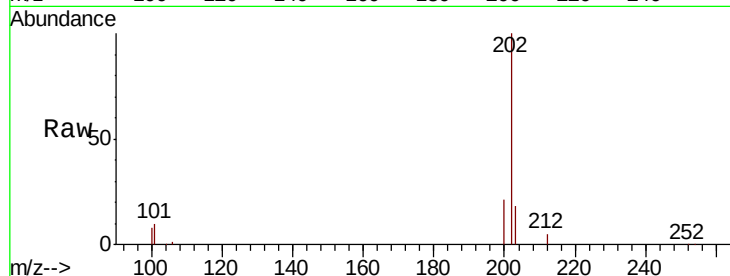
#17  
Pvrene  
Concen: 2.327 ng/ul  
RT: 19.55 min Scan# 4248  
Delta R.T. -0.00 min  
Lab File: BN011713.D  
Acq: 04 Sep 2020 22:59

Instrument :  
BNA\_N  
ClientSampleId :  
C0AB0

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.2  | 7.3        | 10.9       |
| 100     | 8.4   | 6.7        | 10.1       |

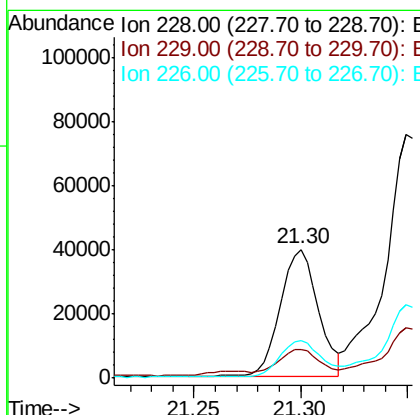
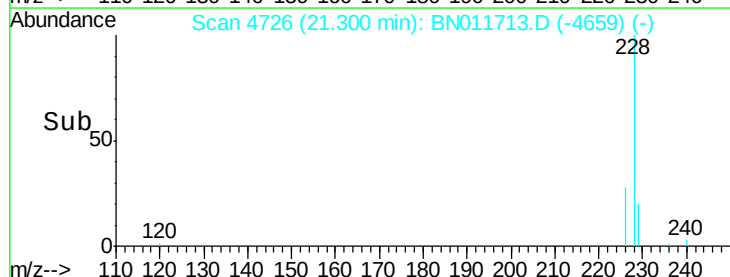
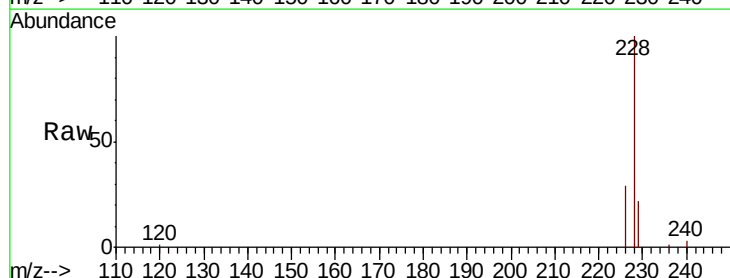
Manual Integrations  
APPROVED

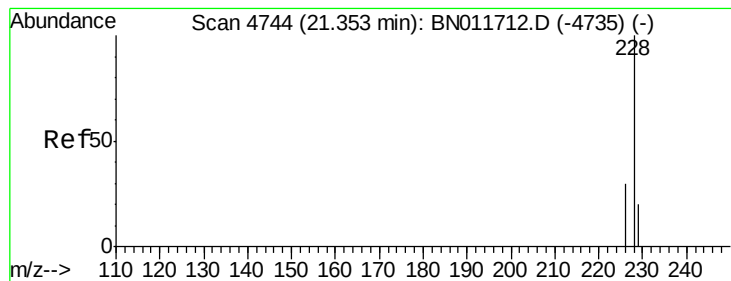
mohammad  
9/8/2020 1:47:13 PM



#18  
Benzo(a)anthracene  
Concen: 1.557 ng/ul  
RT: 21.30 min Scan# 4726  
Delta R.T. -0.00 min  
Lab File: BN011713.D  
Acq: 04 Sep 2020 22:59

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 22.4  | 16.7       | 25.1       |
| 226     | 28.8  | 22.9       | 34.3       |





#19

Chrysene

Concen: 2.477 ng/ul

RT: 21.35 min Scan# 4743

Delta R.T. -0.01 min

Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

Instrument :

BNA\_N

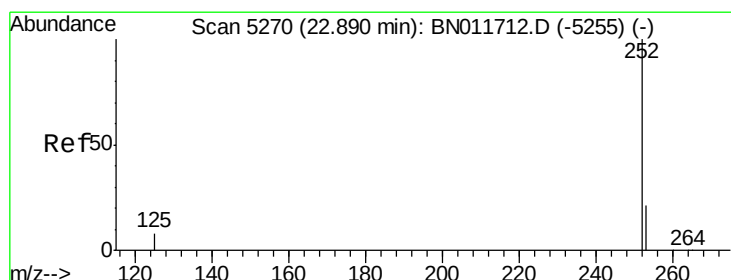
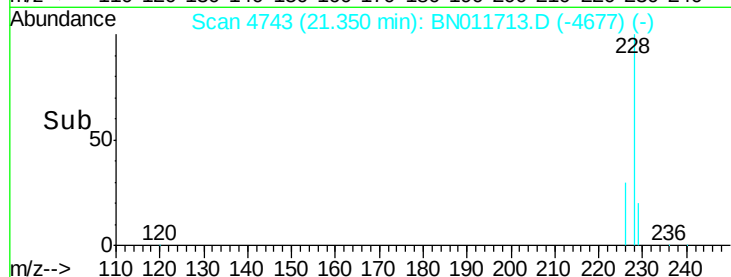
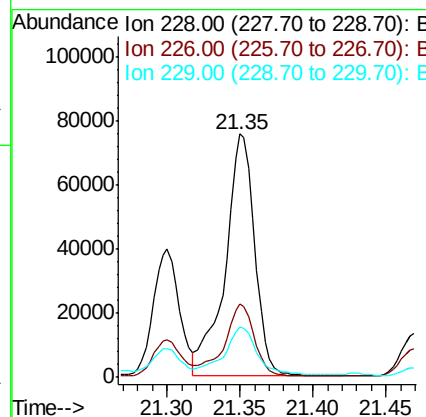
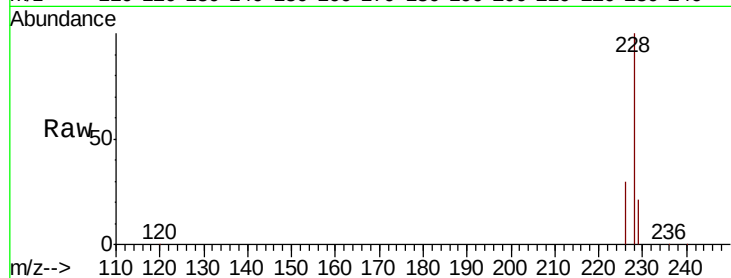
ClientSampleId :

C0AB0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 105497 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.1  | 24.1  | 36.1   |
| 229       | 20.8  | 16.4  | 24.6   |

Manual Integrations  
APPROVED

mohammad  
9/8/2020 1:47:13 PM



#21

Benzo(b)fluoranthene

Concen: 4.752 ng/ul m

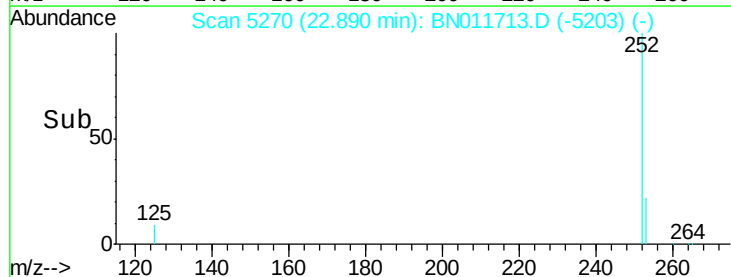
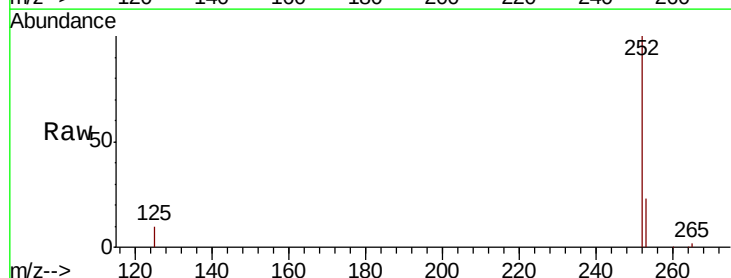
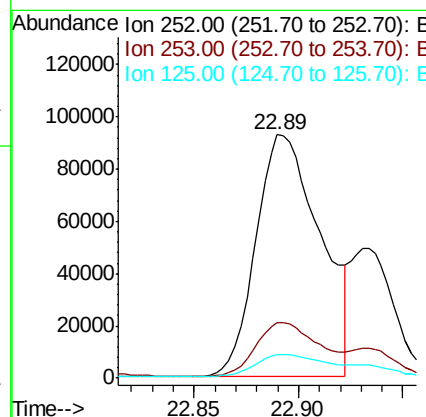
RT: 22.89 min Scan# 5270

Delta R.T. -0.00 min

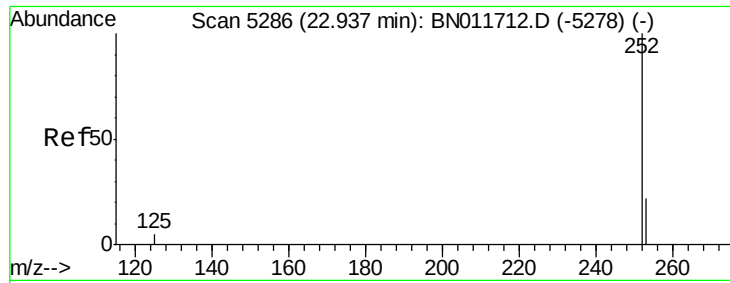
Lab File: BN011713.D

Acq: 04 Sep 2020 22:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 199155 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 0.0   | 54.8   |
| 125       | 9.6   | 0.0   | 22.2   |







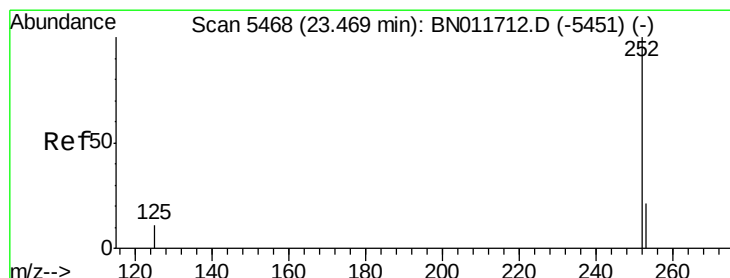
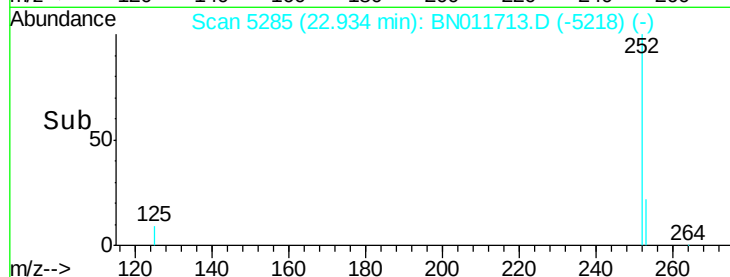
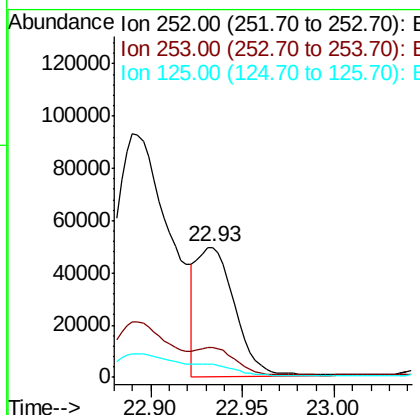
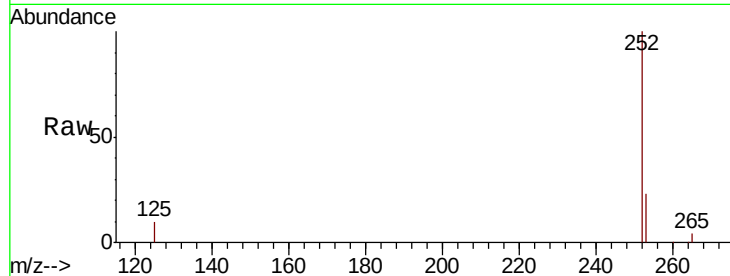
#22  
Benzo(k)fluoranthene  
Concen: 1.556 ng/ul m  
RT: 22.93 min Scan# 5285  
Delta R.T. -0.00 min  
Lab File: BN011713.D  
Acq: 04 Sep 2020 22:59

Instrument :  
BNA\_N  
ClientSampleId :  
C0AB0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 21.8  | 32.6  |
| 125     | 10.1  | 9.1   | 13.7  |

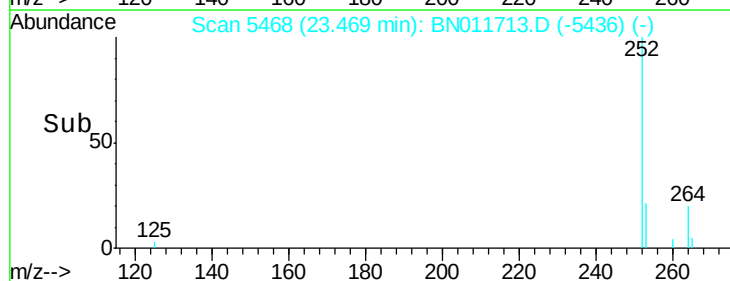
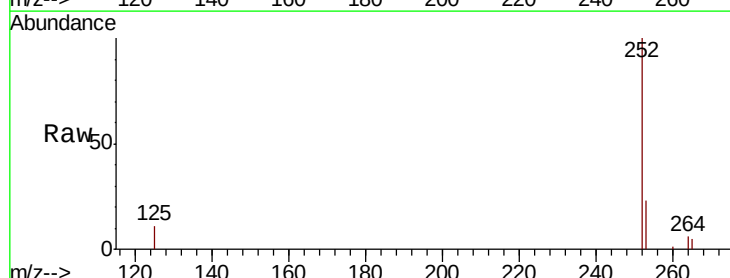
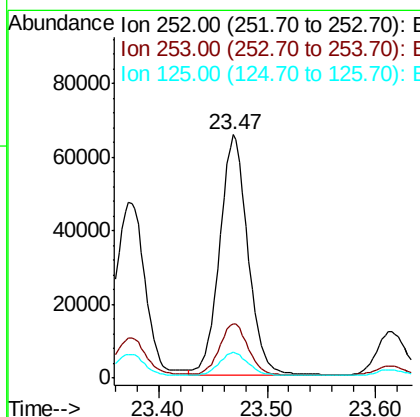
Manual Integrations  
APPROVED

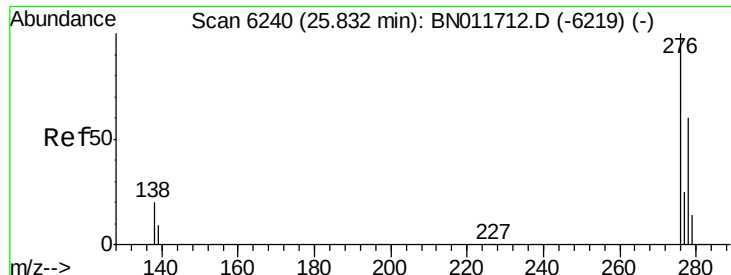
mohammad  
9/8/2020 1:47:13 PM



#23  
Benzo(a)pyrene  
Concen: 3.376 ng/ul  
RT: 23.47 min Scan# 5468  
Delta R.T. -0.01 min  
Lab File: BN011713.D  
Acq: 04 Sep 2020 22:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 24.4  | 36.6# |
| 125     | 10.6  | 11.1  | 16.7# |





#24

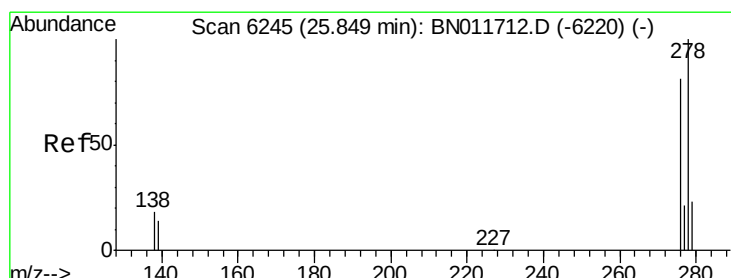
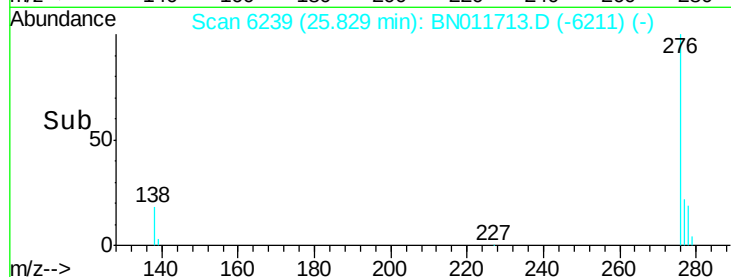
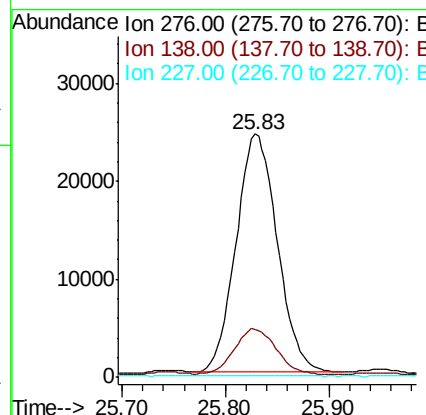
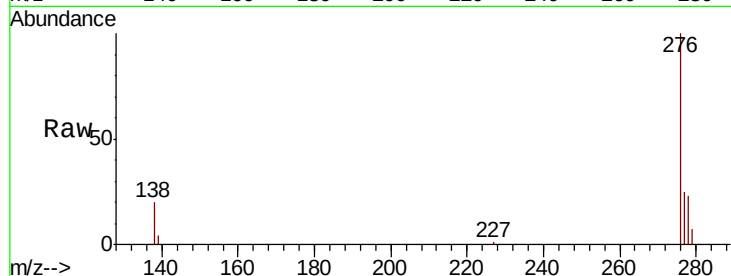
Indeno(1,2,3-cd)pyrene  
Concen: 1.418 ng/ul  
RT: 25.83 min Scan# 6239  
Delta R.T. -0.01 min  
Lab File: BN011713.D  
Acq: 04 Sep 2020 22:59

Instrument :  
BNA\_N  
ClientSampleId :  
C0AB0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.7  | 15.8  | 23.6  |
| 227     | 0.2   | 0.2   | 0.2   |

Manual Integrations  
APPROVED

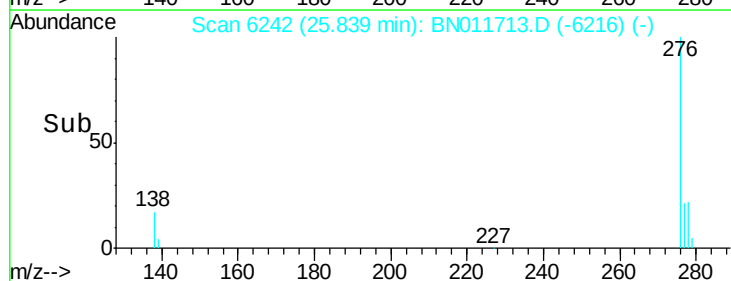
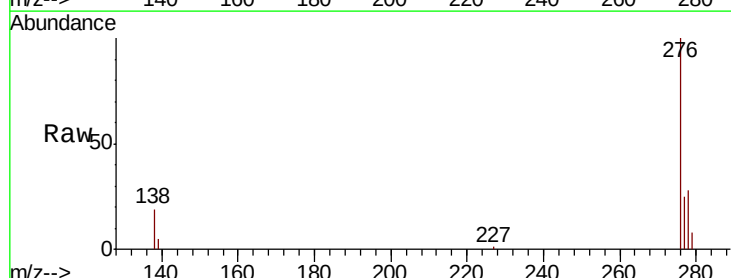
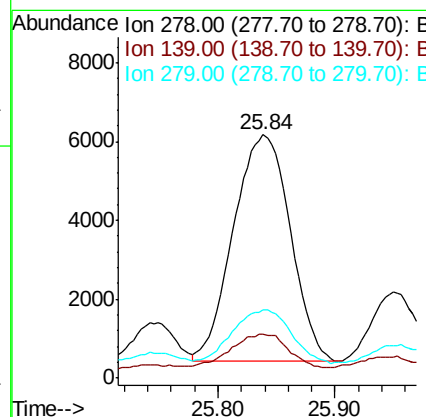
mohammad  
9/8/2020 1:47:13 PM

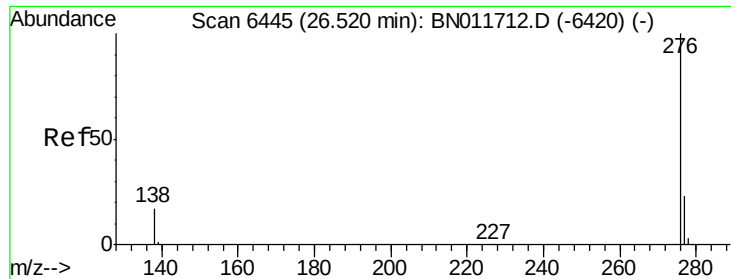


#25

Dibenzo(a,h)anthracene  
Concen: 0.497 ng/ul  
RT: 25.84 min Scan# 6242  
Delta R.T. -0.01 min  
Lab File: BN011713.D  
Acq: 04 Sep 2020 22:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.1  | 12.1  | 18.1  |
| 279     | 28.0  | 22.9  | 34.3  |





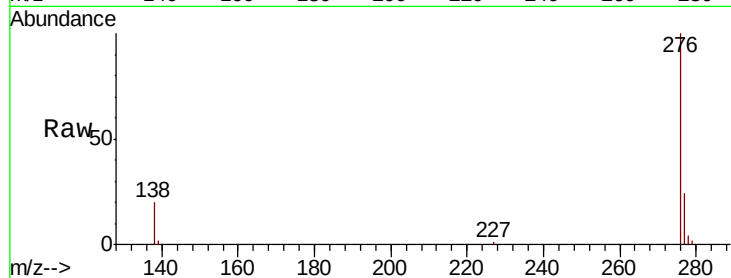
#26  
 Benzo(a,h,i)perylene  
 Concen: 1.279 ng/ul  
 RT: 26.52 min Scan# 6446  
 Delta R.T. -0.00 min  
 Lab File: BN011713.D  
 Acq: 04 Sep 2020 22:59

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AB0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.0  | 15.8  | 23.6  |
| 277     | 24.2  | 20.6  | 31.0  |

Manual Integrations  
 APPROVED

mohammad  
 9/8/2020 1:47:13 PM



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

