

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM040817\  
 Data File : BM009622.D  
 Acq On : 07 Apr 2017 11:02  
 Operator : SJ/MA  
 Sample : I2524-04RE  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB324RE

Manual Integrations  
 APPROVED

mohammad  
 4/10/2017 1:23:16 PM

Quant Time: Apr 07 11:45:05 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM040417-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 07 03:19:28 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 145775   | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.64 | 136  | 548514   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.49 | 164  | 311006   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.24 | 188  | 720929   | 20.00  | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.42 | 240  | 953975   | 20.00  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.74 | 264  | 915716   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.26 | 165  | 8489     | 1.01   | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.17 | 160  | 65030    | 2.13   | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.48 | 176  | 124011   | 5.66   | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.33 | 188  | 158462   | 4.59   | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.63 | 212  | 253112   | 6.46   | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 23.59 | 264  | 212238   | 5.25   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 14) Phenanthrene            | 17.28 | 178  | 311151   | 7.68   | ng/ul  | 97       |
| 16) Anthracene              | 17.37 | 178  | 60431    | 1.44   | ng/ul  | 96       |
| 17) Fluoranthene            | 19.30 | 202  | 508105   | 10.07  | ng/ul# | 95       |
| 20) Pyrene                  | 19.66 | 202  | 442726   | 8.52   | ng/ul# | 96       |
| 21) Benzo(a)anthracene      | 21.40 | 228  | 239871   | 4.45   | ng/ul  | 99       |
| 22) Chrysene                | 21.45 | 228  | 229205   | 4.64   | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 23.04 | 252  | 296032   | 5.23   | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 23.08 | 252  | 100997m  | 1.87   | ng/ul  |          |
| 27) Benzo(a)pyrene          | 23.64 | 252  | 190433   | 3.54   | ng/ul# | 95       |
| 28) Indeno(1,2,3-cd)pyrene  | 26.10 | 276  | 133262   | 2.21   | ng/ul# | 95       |
| 30) Benzo(g,h,i)perylene    | 26.83 | 276  | 120656m  | 2.42   | ng/ul  |          |

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

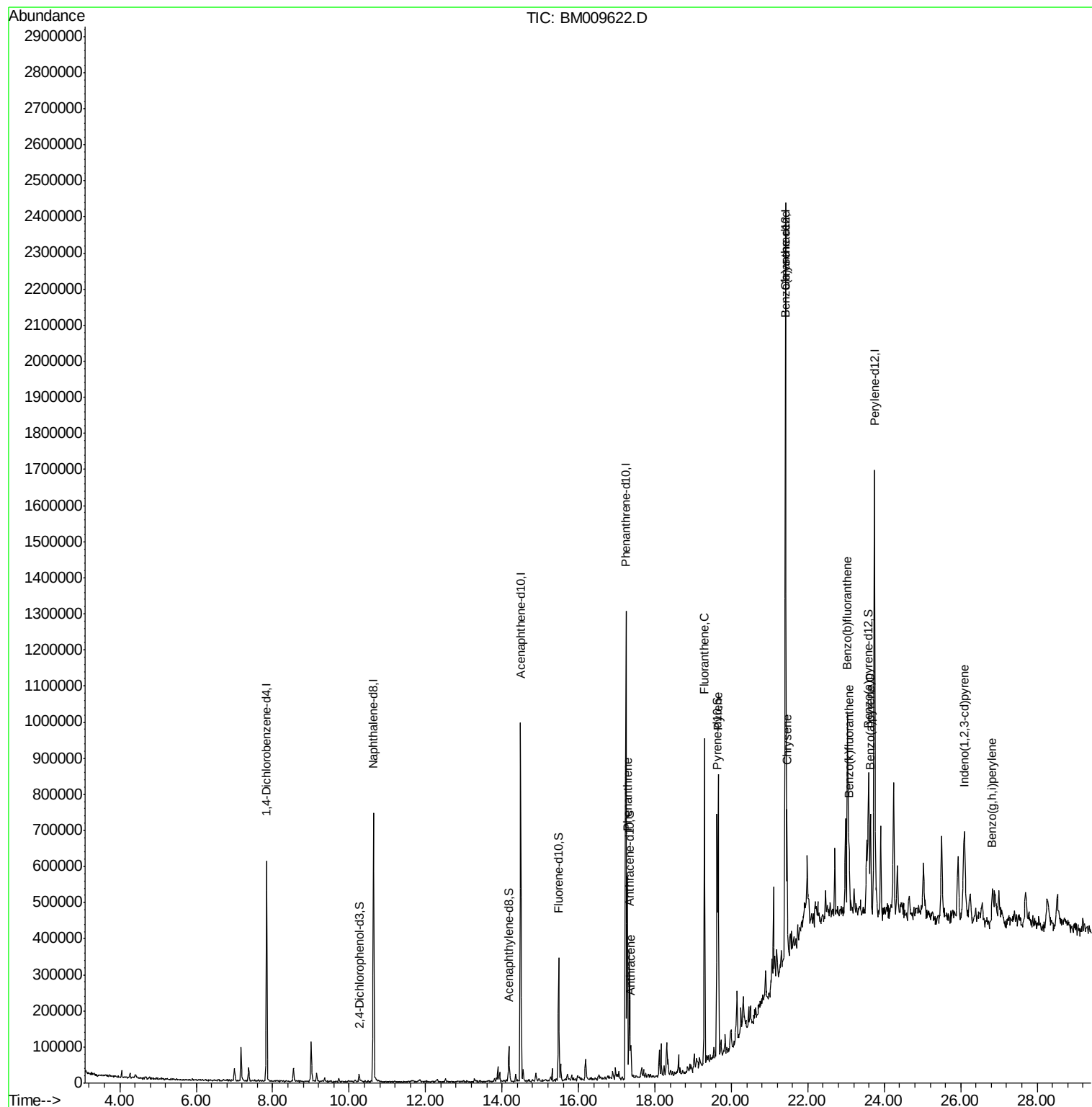
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM040817\  
Data File : BM009622.D  
Acq On : 07 Apr 2017 11:02  
Operator : SJ/MA  
Sample : I2524-04RE  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

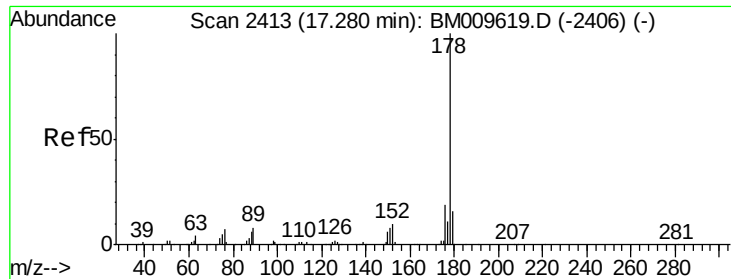
Instrument :  
BNA\_M  
ClientSampled :  
CB324RE

Manual Integrations  
APPROVED

mohammad  
4/10/2017 1:23:16 PM

Quant Time: Apr 07 11:45:05 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM040417-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Apr 07 03:19:28 2017  
Response via : Initial Calibration





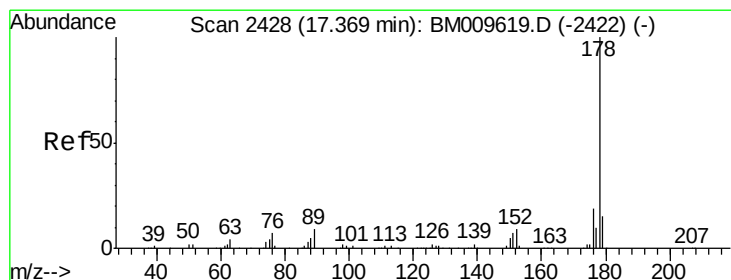
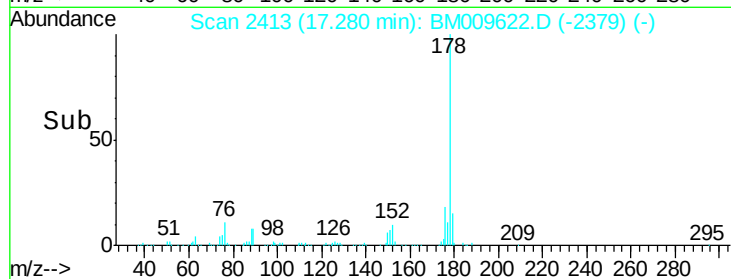
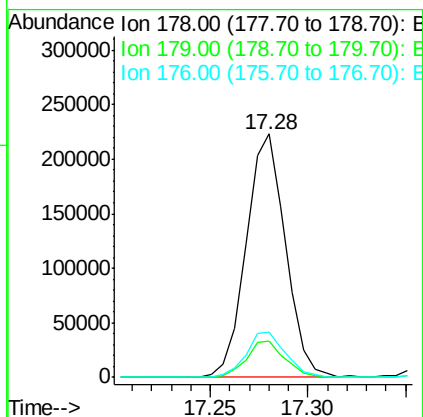
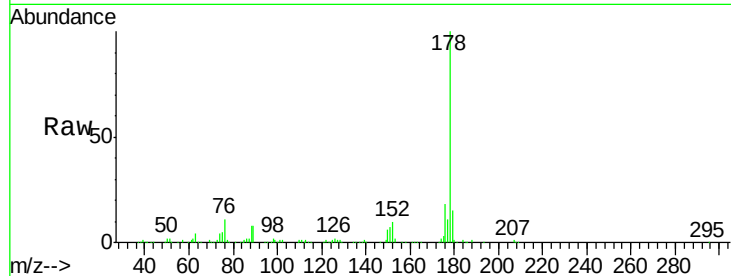
#14  
Phenanthrene  
Concen: 7.68 ng/ul  
RT: 17.28 min Scan# 2413  
Delta R.T. 0.00 min  
Lab File: BM009622.D  
Acq: 07 Apr 2017 11:02

Instrument :  
BNA\_M  
ClientSampleId :  
CB324RE

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 311151 |       |       |
| 179     | 15.0  | 12.2   | 18.4  |       |
| 176     | 18.4  | 16.4   | 24.6  |       |

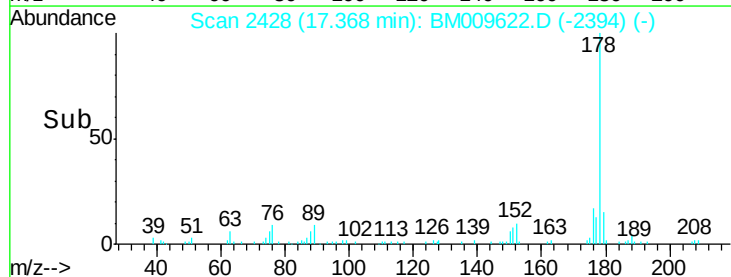
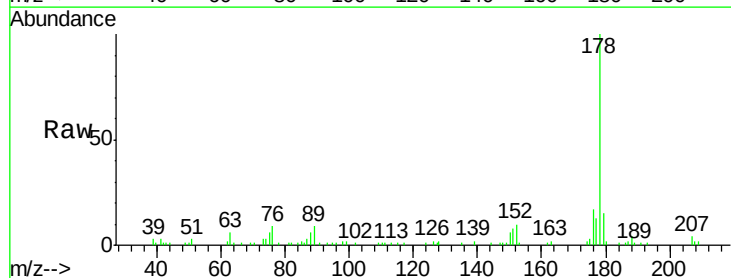
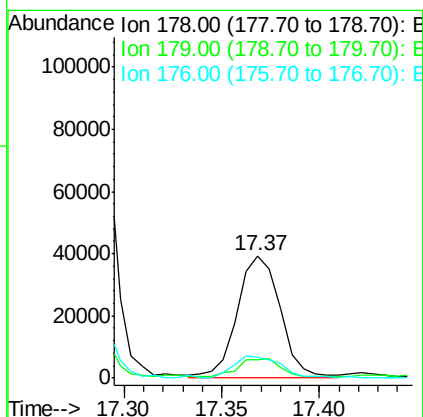
Manual Integrations  
APPROVED

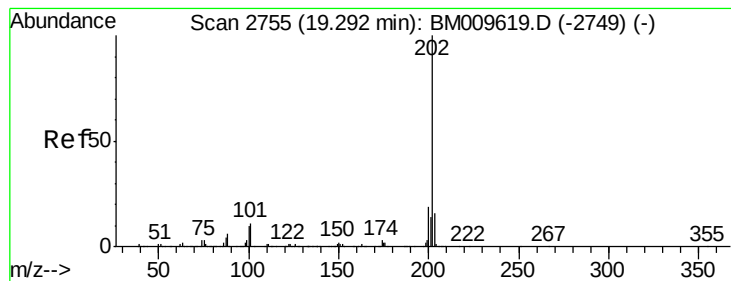
mohammad  
4/10/2017 1:23:16 PM



#16  
Anthracene  
Concen: 1.44 ng/ul  
RT: 17.37 min Scan# 2428  
Delta R.T. 0.00 min  
Lab File: BM009622.D  
Acq: 07 Apr 2017 11:02

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 60431 |       |       |
| 179     | 15.0  | 12.7  | 19.1  |       |
| 176     | 17.0  | 15.8  | 23.8  |       |





#17

Fluoranthene

Concen: 10.07 ng/ul

RT: 19.30 min Scan# 2756

Delta R.T. 0.01 min

Lab File: BM009622.D

Acq: 07 Apr 2017 11:02

Instrument :

BNA\_M

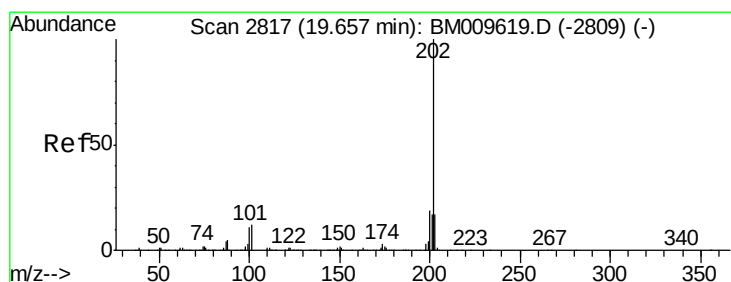
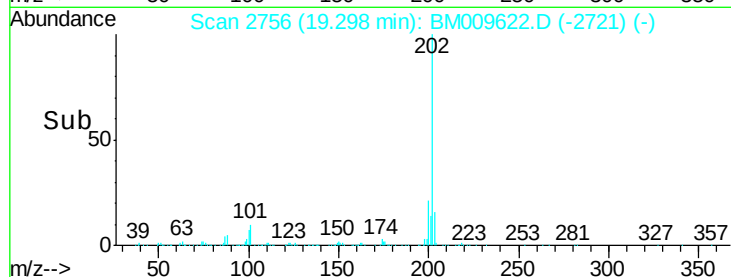
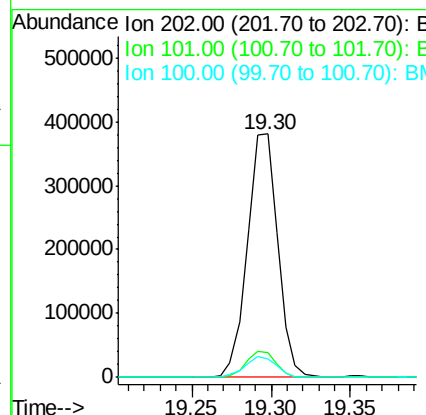
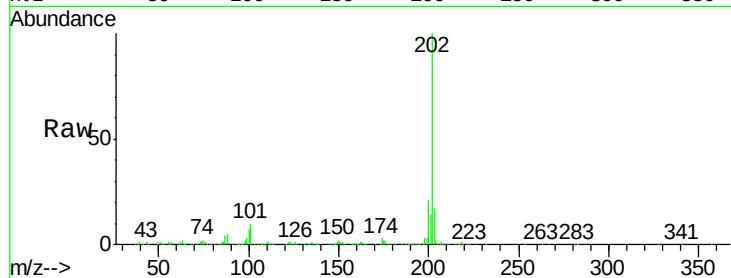
ClientSampleId :

CB324RE

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 508105 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 10.2 | 9.8   | 14.8   |
| 100       | 7.3  | 7.5   | 11.3#  |

Manual Integrations  
APPROVED

mohammad  
4/10/2017 1:23:16 PM



#20

Pyrene

Concen: 8.52 ng/ul

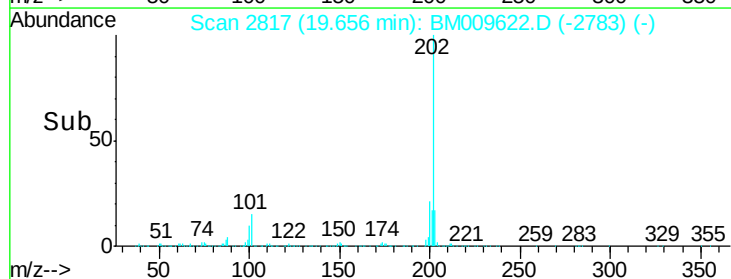
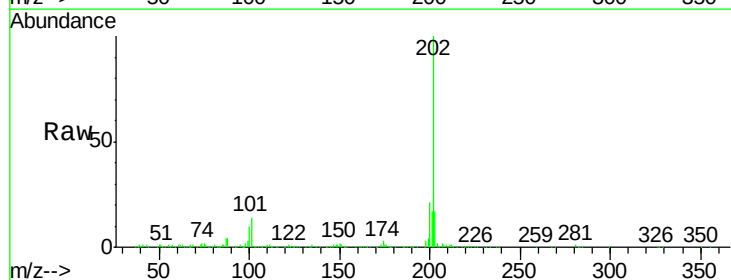
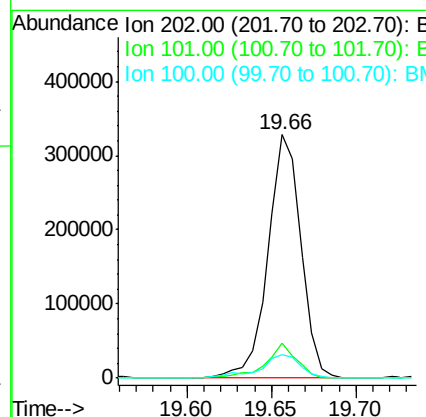
RT: 19.66 min Scan# 2817

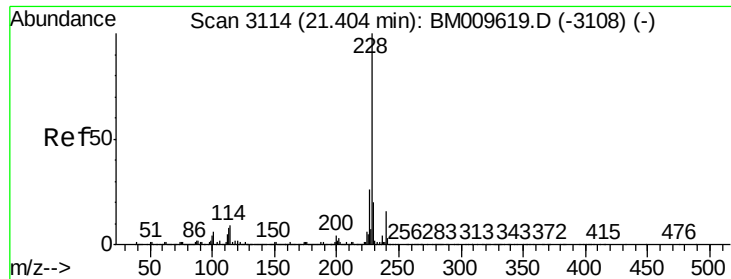
Delta R.T. 0.00 min

Lab File: BM009622.D

Acq: 07 Apr 2017 11:02

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 442726 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 14.5 | 11.2  | 16.8   |
| 100       | 9.6  | 9.8   | 14.6#  |





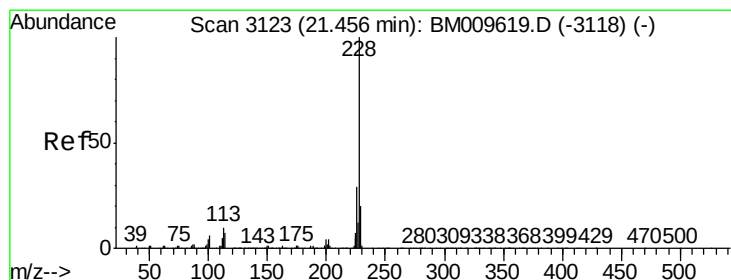
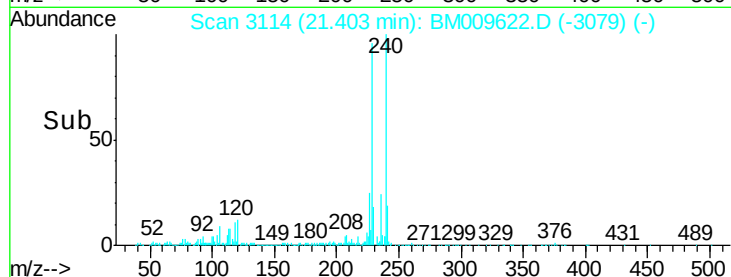
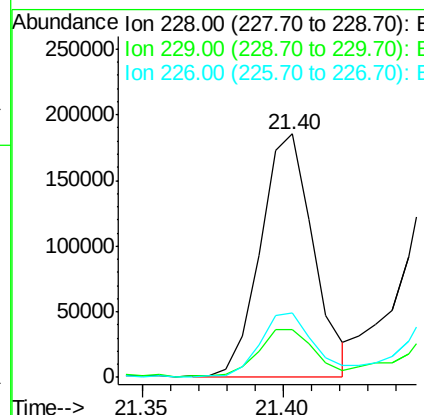
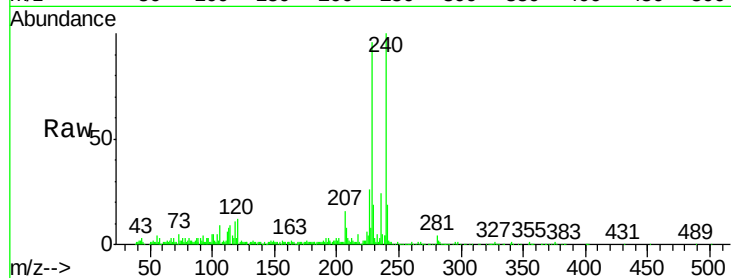
#21  
Benzo(a)anthracene  
Concen: 4.45 ng/ul  
RT: 21.40 min Scan# 3114  
Delta R.T. 0.01 min  
Lab File: BM009622.D  
Acq: 07 Apr 2017 11:02

Instrument :  
BNA\_M  
ClientSampled :  
CB324RE

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 239871 |       |       |
| 229     | 19.8  | 15.9   | 23.9  |       |
| 226     | 26.6  | 22.1   | 33.1  |       |

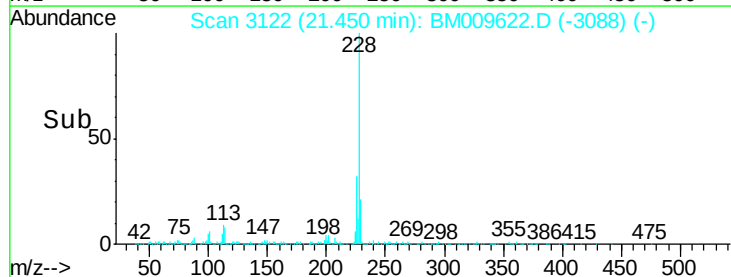
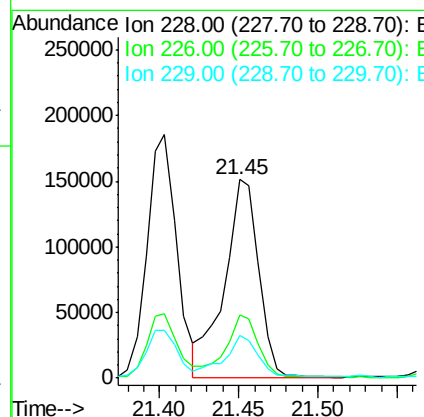
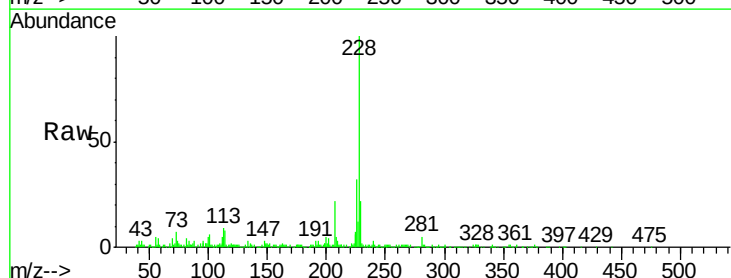
Manual Integrations  
APPROVED

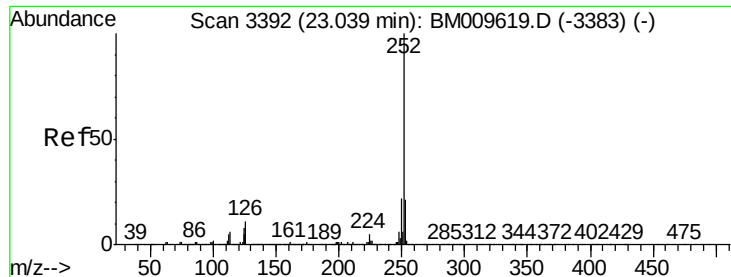
mohammad  
4/10/2017 1:23:16 PM



#22  
Chrysene  
Concen: 4.64 ng/ul  
RT: 21.45 min Scan# 3122  
Delta R.T. 0.00 min  
Lab File: BM009622.D  
Acq: 07 Apr 2017 11:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 229205 |       |       |
| 226     | 32.0  | 25.0   | 37.6  |       |
| 229     | 21.6  | 16.6   | 25.0  |       |





#24

Benzo(b)fluoranthene

Concen: 5.23 ng/ul

RT: 23.04 min Scan# 3392

Delta R.T. 0.01 min

Lab File: BM009622.D

Acq: 07 Apr 2017 11:02

Instrument :

BNA\_M

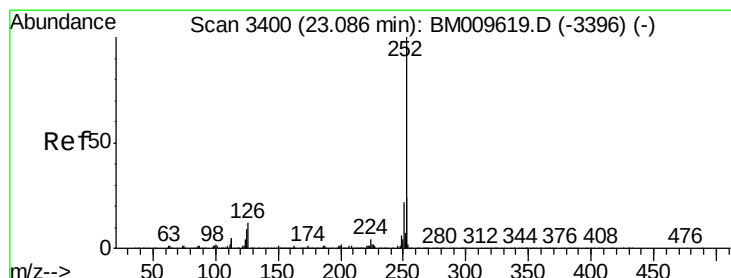
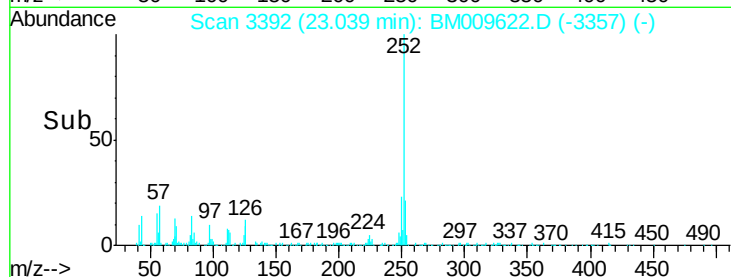
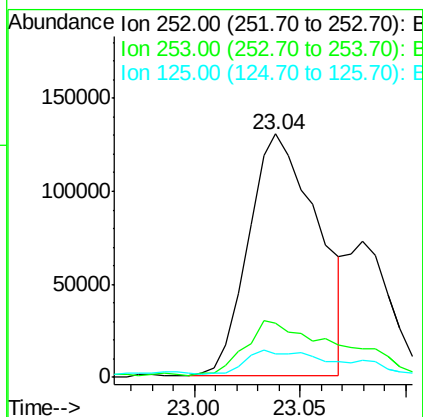
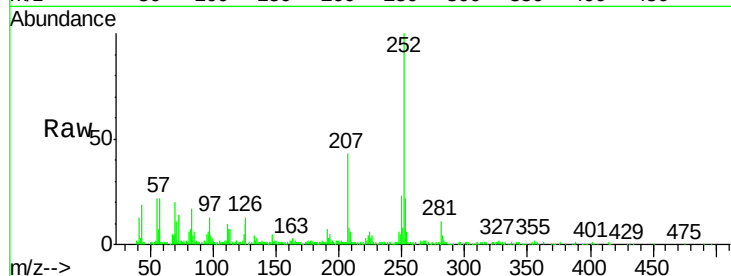
ClientSampleId :

CB324RE

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 296032 |       |       |
| 253     | 22.1  | 17.8   | 26.6  |       |
| 125     | 9.9   | 9.4    | 14.0  |       |

Manual Integrations  
APPROVED

mohammad  
4/10/2017 1:23:16 PM



#25

Benzo(k)fluoranthene

Concen: 1.87 ng/ul m

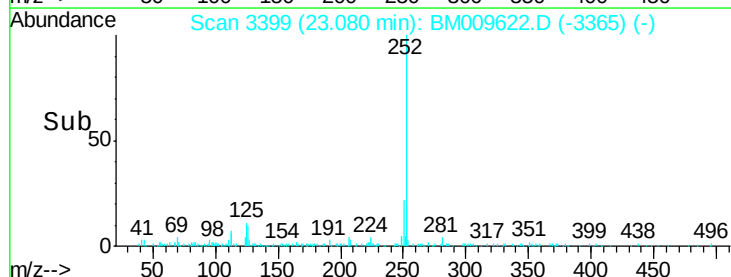
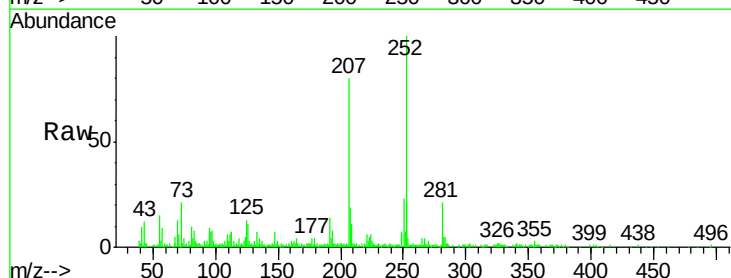
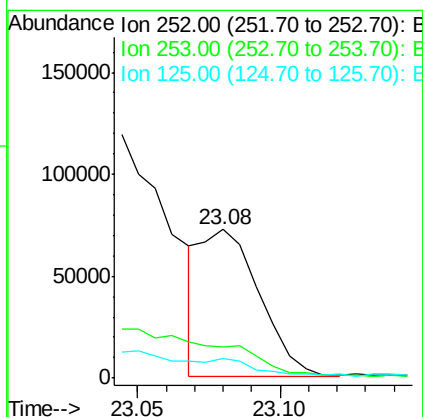
RT: 23.08 min Scan# 3399

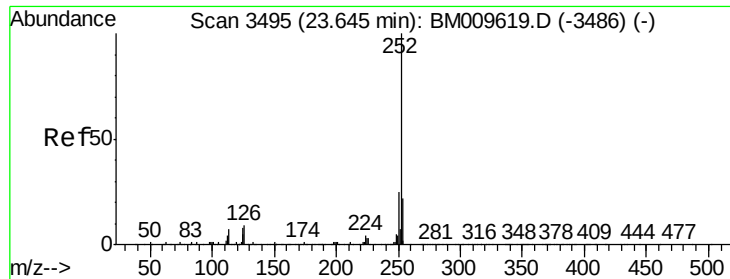
Delta R.T. 0.00 min

Lab File: BM009622.D

Acq: 07 Apr 2017 11:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 100997 |       |       |
| 253     | 21.0  | 17.4   | 26.2  |       |
| 125     | 12.9  | 8.8    | 13.2  |       |





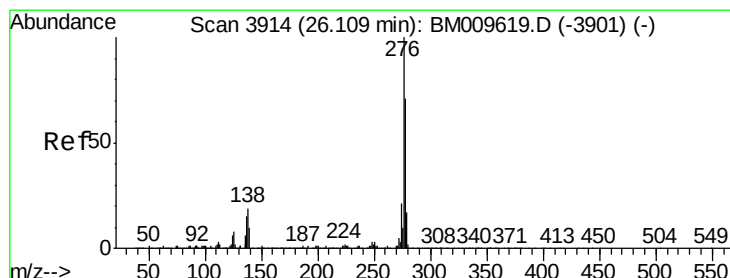
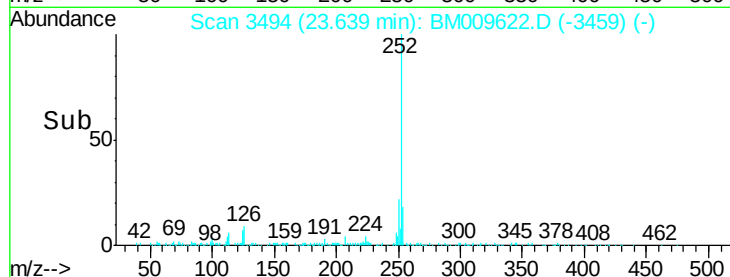
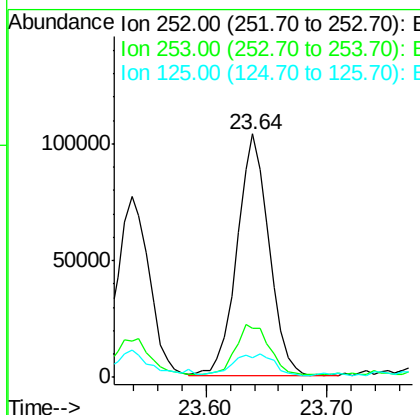
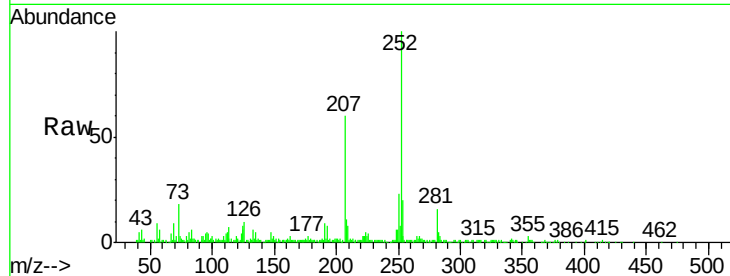
#27  
Benzo(a)pyrene  
Concen: 3.54 ng/ul  
RT: 23.64 min Scan# 3494  
Delta R.T. 0.01 min  
Lab File: BM009622.D  
Acq: 07 Apr 2017 11:02

Instrument :  
BNA\_M  
ClientSampled :  
CB324RE

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 19.9  | 17.1       | 25.7       |
| 125     | 8.3   | 9.4        | 14.2       |

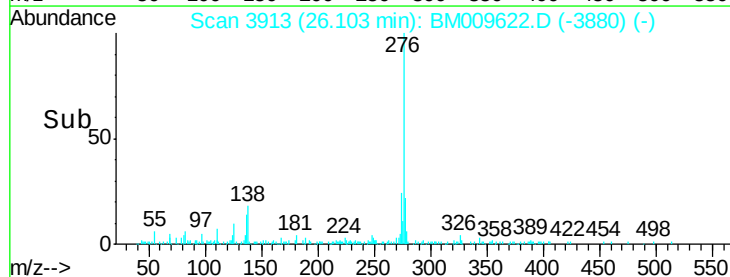
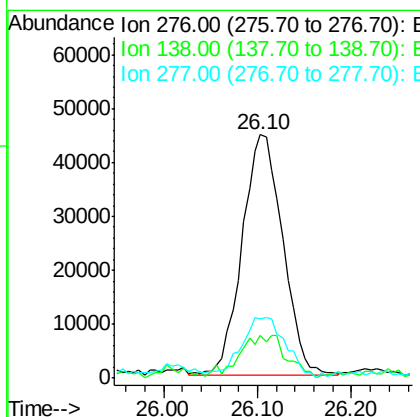
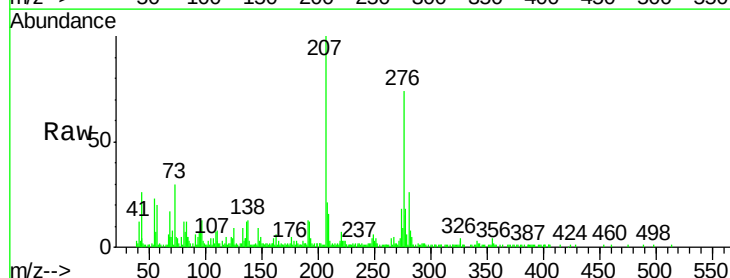
Manual Integrations  
APPROVED

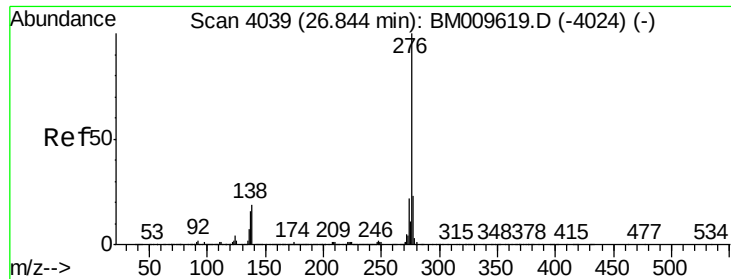
mohammad  
4/10/2017 1:23:16 PM



#28  
Indeno(1,2,3-cd)pyrene  
Concen: 2.21 ng/ul  
RT: 26.10 min Scan# 3913  
Delta R.T. -0.01 min  
Lab File: BM009622.D  
Acq: 07 Apr 2017 11:02

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 17.5  | 17.8       | 26.6       |
| 277     | 24.3  | 19.4       | 29.0       |





#30

Benzo(g,h,i)perylene

Concen: 2.42 ng/ul m

RT: 26.83 min Scan# 4036

Delta R.T. -0.01 min

Lab File: BM009622.D

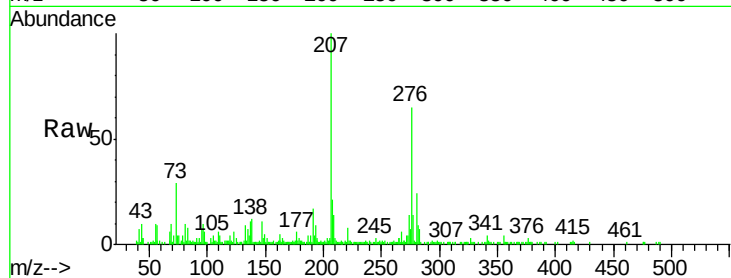
Acq: 07 Apr 2017 11:02

Instrument :

BNA\_M

ClientSampleId :

CB324RE



|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 276  | Resp: | 120656 |
| Ion | Ratio | 100  | Lower | Upper  |
| 138 | 18.1  | 19.0 | 28.4# |        |
| 277 | 21.0  | 19.7 | 29.5  |        |

Manual Integrations  
APPROVED

mohammad  
4/10/2017 1:23:16 PM

