

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030620\  
 Data File : BM025400.D  
 Acq On : 09 Mar 2020 00:32  
 Operator : CG/JU  
 Sample : L1617-20  
 Misc :  
 ALS Vial : 86 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DBDT4

Manual Integrations  
 APPROVED

mohammad  
 3/9/2020 3:04:04 PM

Quant Time: Mar 09 02:32:33 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 08:02:03 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.67  | 152  | 3708     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.43 | 136  | 15807    | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.29 | 164  | 10970    | 0.40   | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.03 | 188  | 26591    | 0.40   | ng/ul  | -0.01    |
| 16) Chrysene-d12            | 21.22 | 240  | 27097    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.41 | 264  | 26144    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 630      | 0.02   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.07 | 212  | 1710     | 0.02   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 10.48 | 128  | 5435     | 0.114  | ng/ul# | 85       |
| 5) 2-Methylnaphthalene      | 12.10 | 142  | 9615     | 0.277  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.01 | 152  | 33937    | 0.661  | ng/ul  | 94       |
| 8) Acenaphthene             | 14.35 | 153  | 115780   | 2.906  | ng/ul  | 98       |
| 9) Fluorene                 | 15.34 | 166  | 113079   | 2.264  | ng/ul  | 96       |
| 12) Phenanthrene            | 17.08 | 178  | 1214973  | 14.169 | ng/ul  | 95       |
| 13) Anthracene              | 17.17 | 178  | 511670   | 6.724  | ng/ul  | 95       |
| 15) Fluoranthene            | 19.10 | 202  | 4713438  | 43.920 | ng/ul  | 95       |
| 17) Pyrene                  | 19.46 | 202  | 3920218  | 38.147 | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 1274250  | 12.793 | ng/ul  | 100      |
| 19) Chrysene                | 21.26 | 228  | 1817556  | 16.608 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 2011084m | 19.226 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.80 | 252  | 582981m  | 5.315  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 920169   | 10.478 | ng/ul# | 89       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.58 | 276  | 536075   | 4.897  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.58 | 278  | 128483m  | 1.416  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 26.24 | 276  | 341295   | 3.671  | ng/ul# | 91       |

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

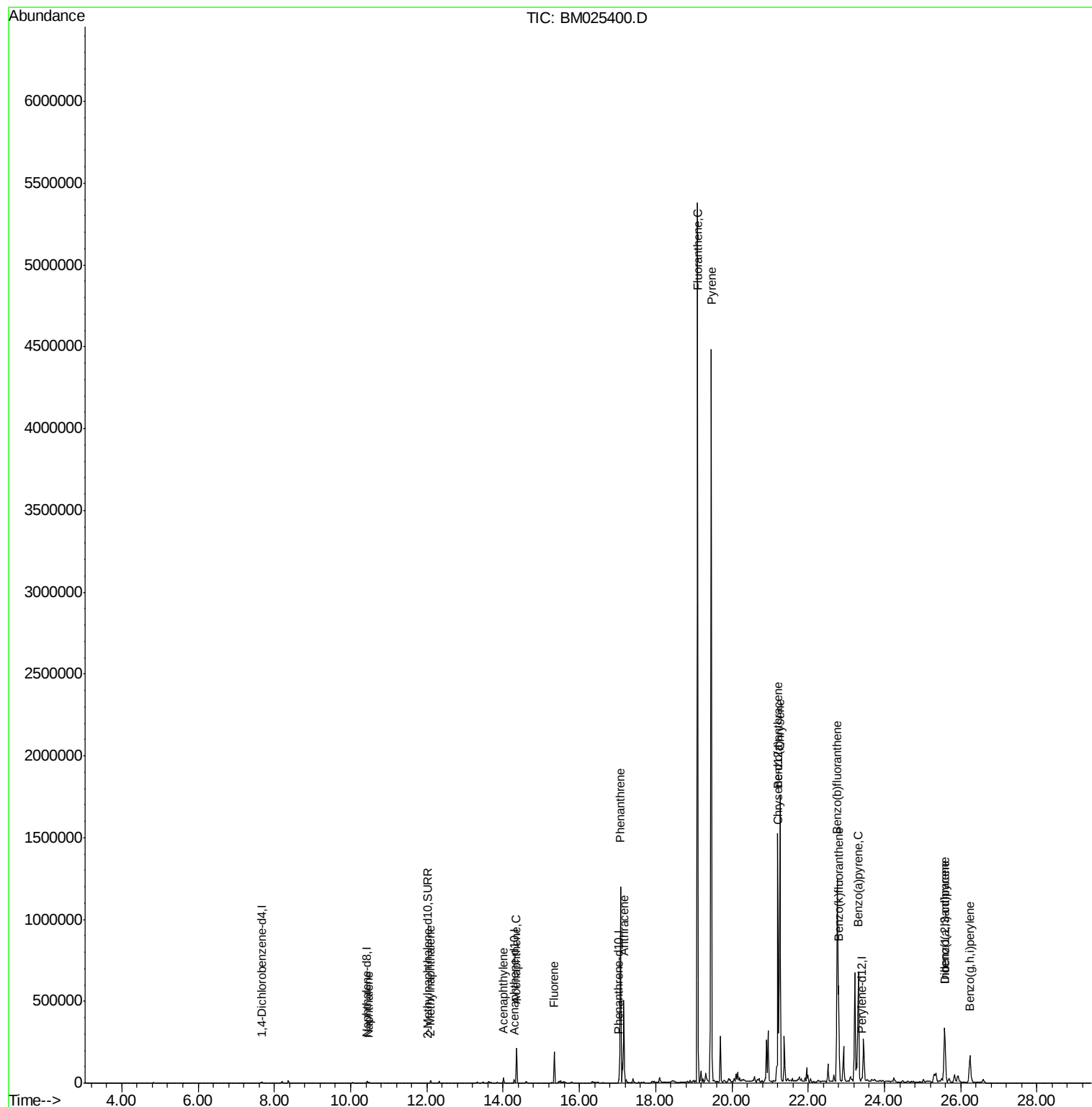
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030620\  
Data File : BM025400.D  
Acq On : 09 Mar 2020 00:32  
Operator : CG/JU  
Sample : L1617-20  
Misc :  
ALS Vial : 86 Sample Multiplier: 1

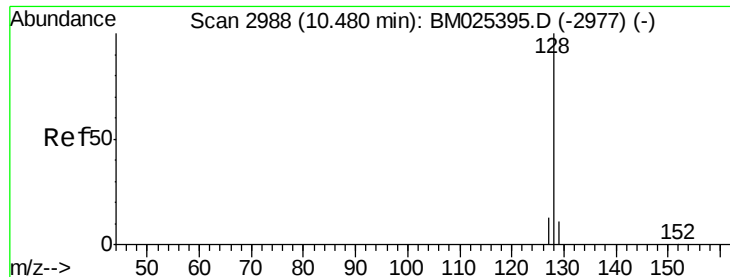
Instrument :  
BNA\_M  
ClientSampleId :  
DBDT4

Manual Integrations  
APPROVED

mohammad  
3/9/2020 3:04:04 PM

Quant Time: Mar 09 02:32:33 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 04 08:02:03 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.114 ng/ul

RT: 10.48 min Scan# 2988

Delta R.T. -0.02 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

Instrument :

BNA\_M

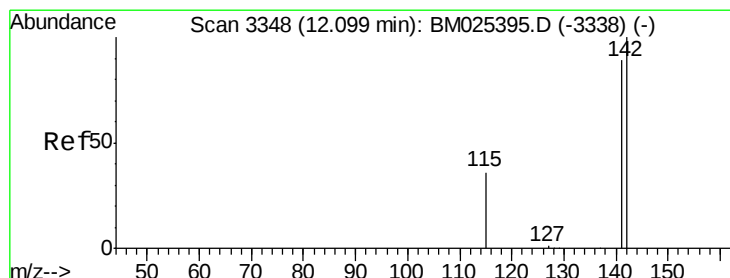
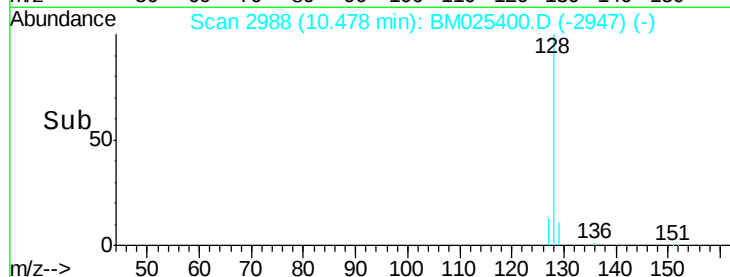
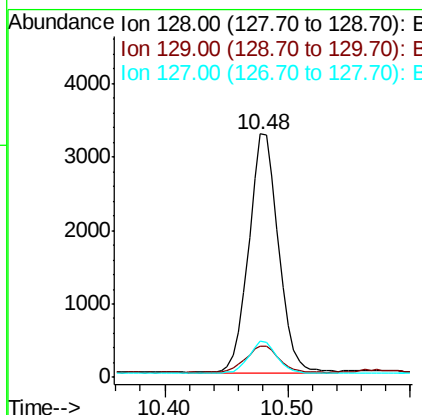
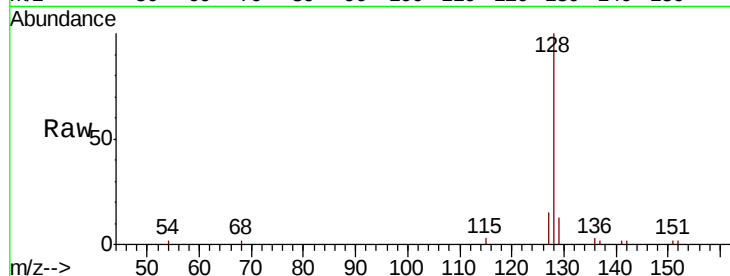
ClientSampleId :

DBDT4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.7  | 17.0  | 25.6# |
| 127     | 14.8  | 15.7  | 23.5# |

Manual Integrations  
APPROVED

mohammad  
3/9/2020 3:04:04 PM



#5

2-Methylnaphthalene

Concen: 0.277 ng/ul

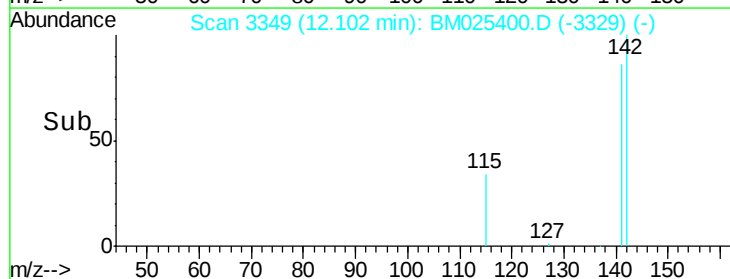
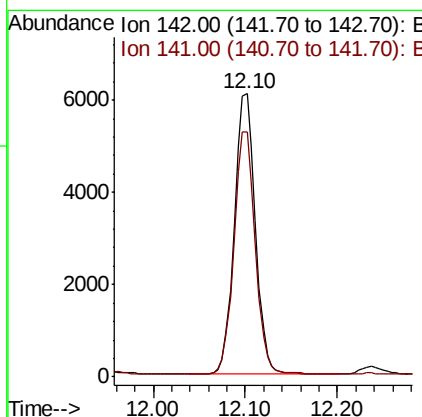
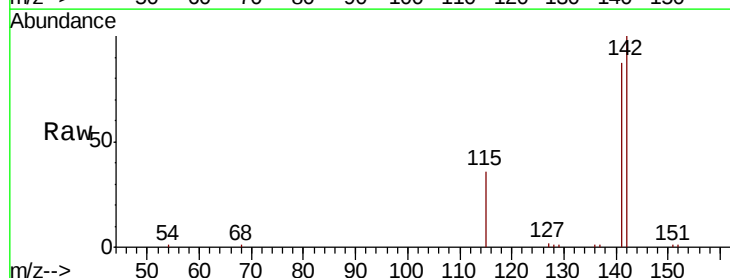
RT: 12.10 min Scan# 3349

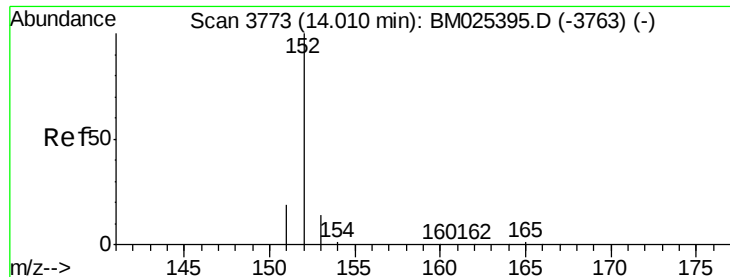
Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.6  | 69.8  | 104.8 |





#7

Acenaphthylene

Concen: 0.661 ng/ul

RT: 14.01 min Scan# 3773

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

Instrument :

BNA\_M

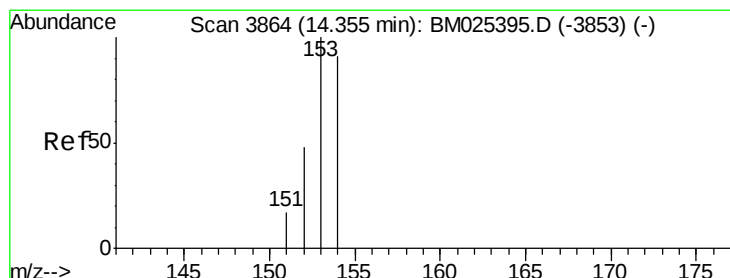
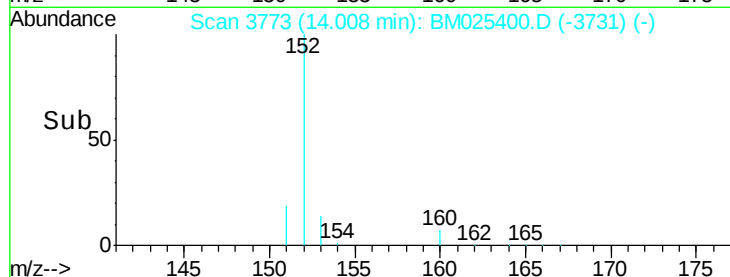
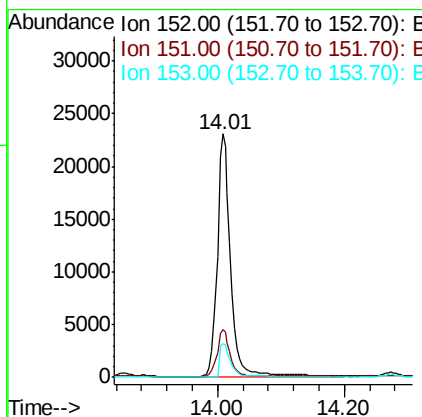
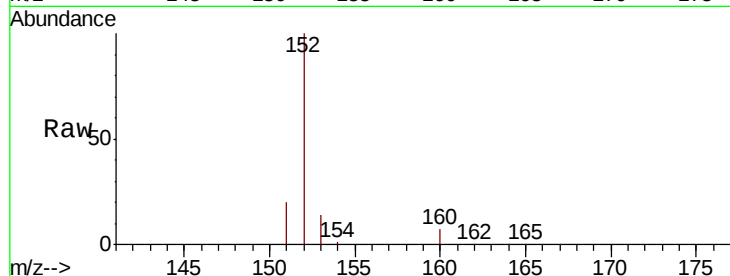
ClientSampleId :

DBDT4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 33937 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.6  | 17.8  | 26.8  |
| 153       | 13.8  | 13.3  | 19.9  |

Manual Integrations  
APPROVED

mohammad  
3/9/2020 3:04:04 PM



#8

Acenaphthene

Concen: 2.906 ng/ul

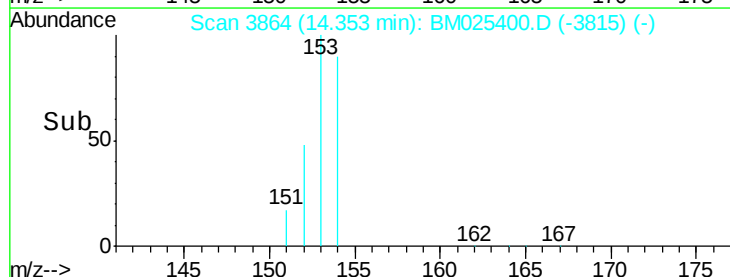
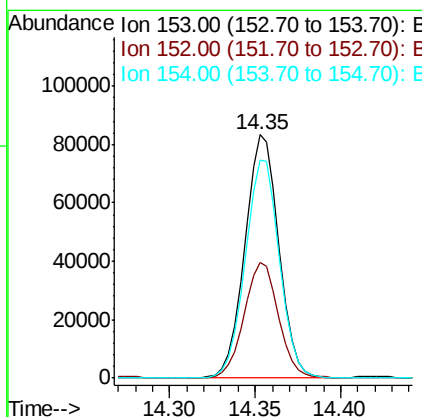
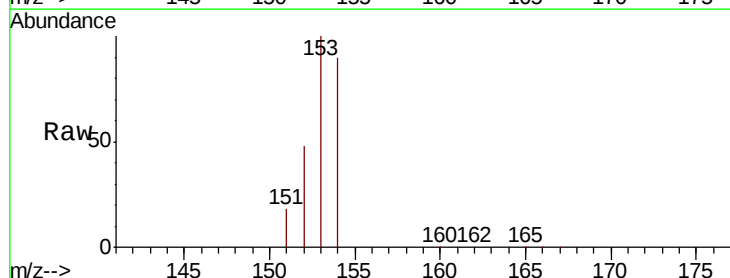
RT: 14.35 min Scan# 3864

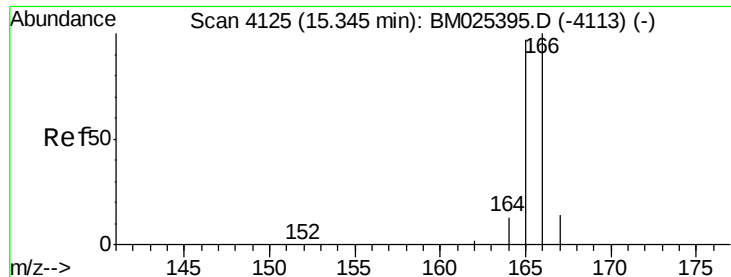
Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 115780 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 47.7  | 40.0  | 60.0   |
| 154       | 89.6  | 71.0  | 106.6  |





#9

Fluorene

Concen: 2.264 ng/ul

RT: 15.34 min Scan# 4125

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

Instrument :

BNA\_M

ClientSampleId :

DBDT4

Tot Ion:166 Resp: 113079

Ion Ratio Lower Upper

166 100

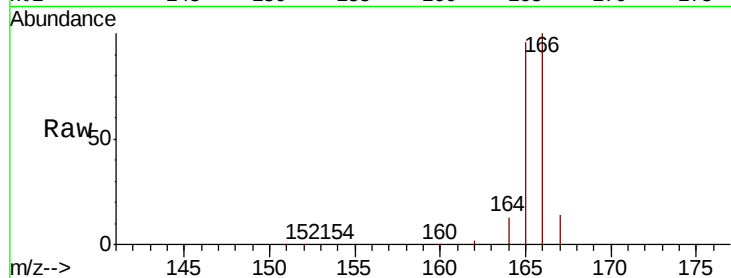
165 96.2 80.0 120.0

167 13.7 13.7 20.5

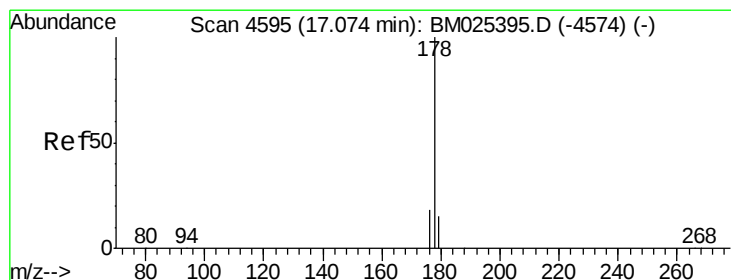
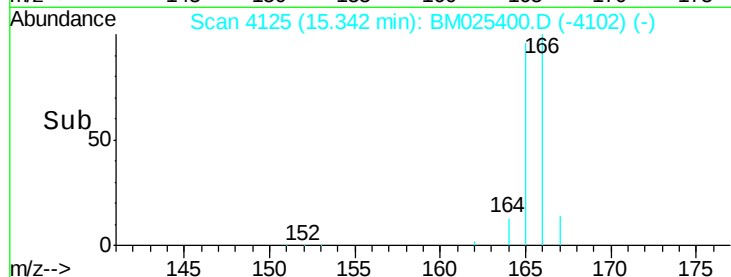
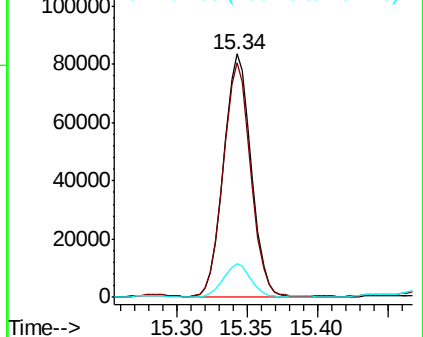
Manual Integrations  
APPROVED

mohammad

3/9/2020 3:04:04 PM



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene

Concen: 14.169 ng/ul

RT: 17.08 min Scan# 4596

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

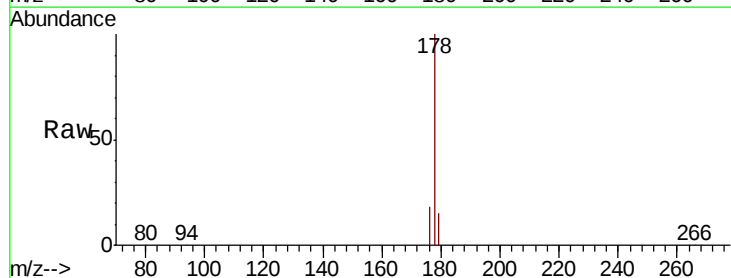
Tgt Ion:178 Resp: 1214973

Ion Ratio Lower Upper

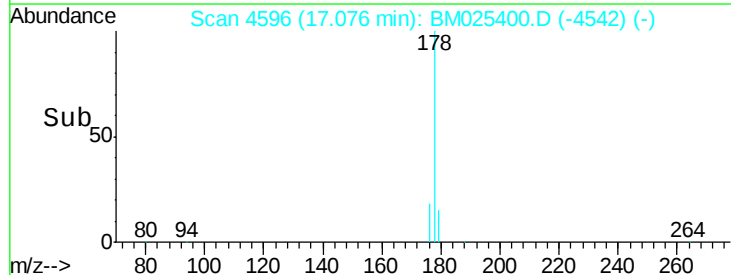
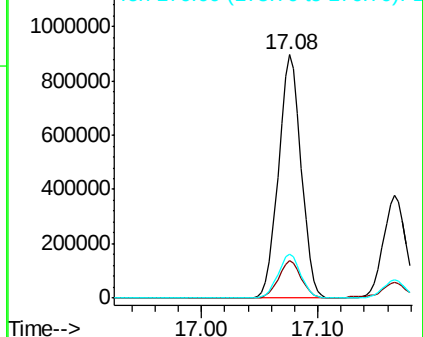
178 100

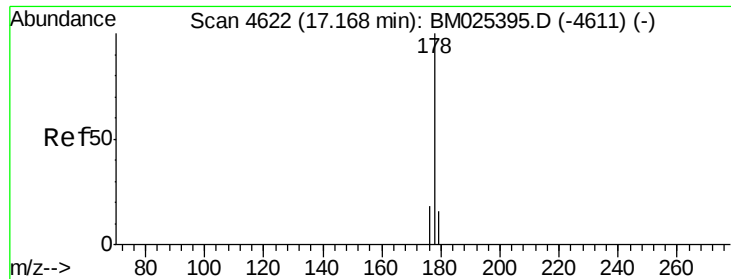
179 15.4 14.0 21.0

176 18.2 16.6 24.8



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





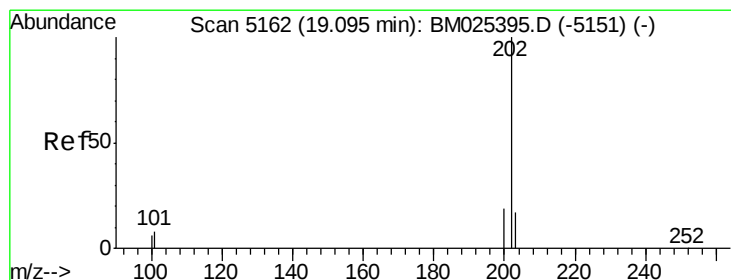
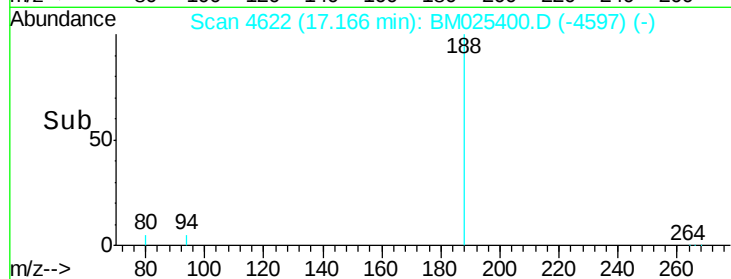
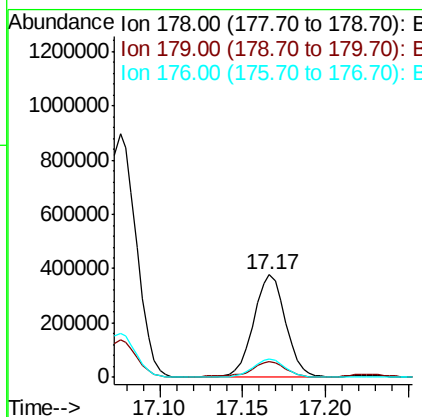
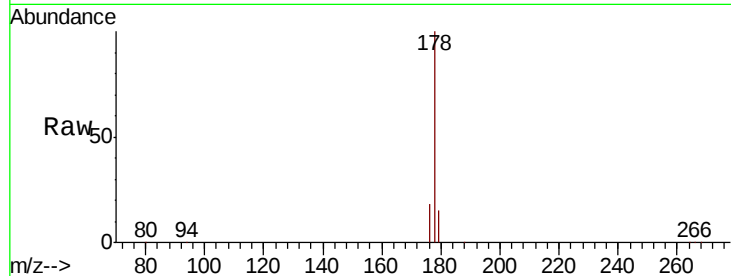
#13  
 Anthracene  
 Concen: 6.724 ng/ul  
 RT: 17.17 min Scan# 4622  
 Delta R.T. -0.01 min  
 Lab File: BM025400.D  
 Acq: 09 Mar 2020 00:32

Instrument :  
 BNA\_M  
 ClientSampled :  
 DBDT4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 14.1  | 21.1  |
| 176     | 17.8  | 16.2  | 24.4  |

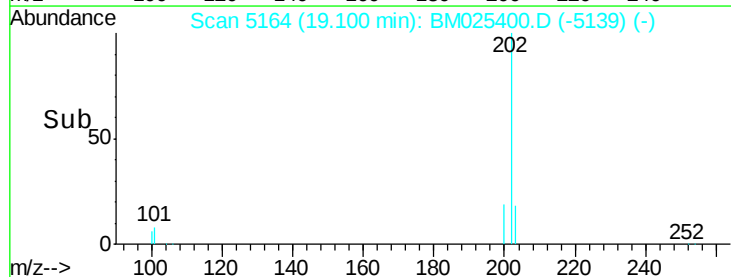
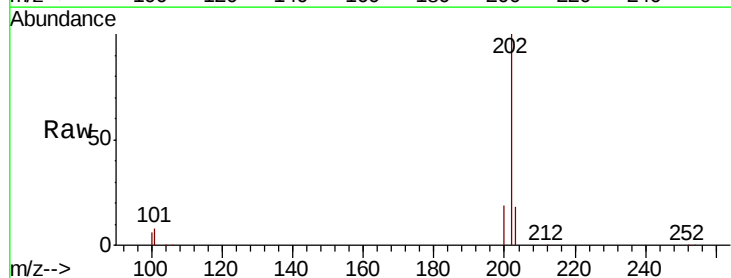
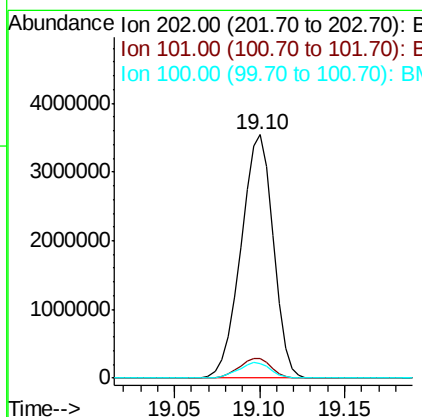
Manual Integrations  
 APPROVED

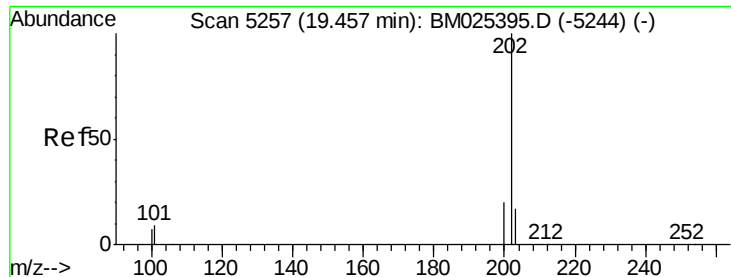
mohammad  
 3/9/2020 3:04:04 PM



#15  
 Fluoranthene  
 Concen: 43.920 ng/ul  
 RT: 19.10 min Scan# 5164  
 Delta R.T. -0.01 min  
 Lab File: BM025400.D  
 Acq: 09 Mar 2020 00:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.0   | 0.0   | 29.4  |
| 100     | 6.1   | 0.0   | 28.0  |





#17

Pvrene

Concen: 38.147 ng/ul

RT: 19.46 min Scan# 5258

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

Instrument :

BNA\_M

ClientSampleId :

DBDT4

Tot Ion:202 Resp: 3920218

Ion Ratio Lower Upper

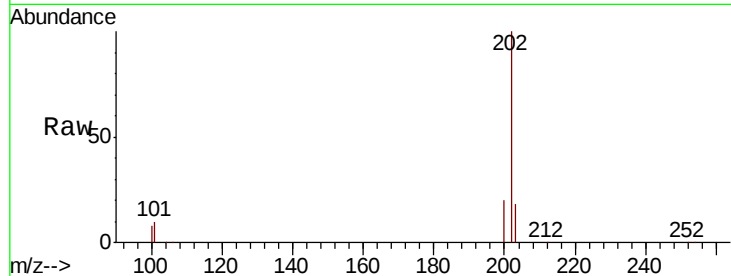
202 100

101 9.9 8.7 13.1

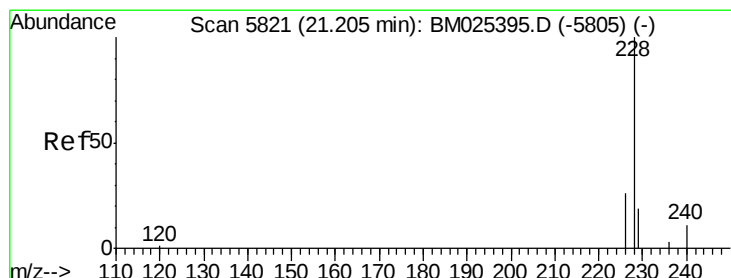
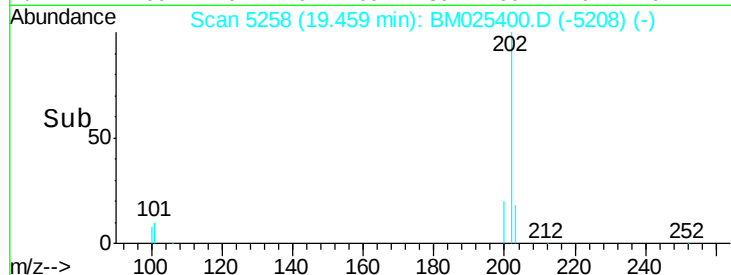
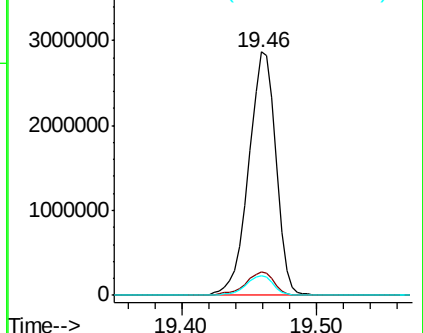
100 8.1 7.3 10.9

Manual Integrations  
APPROVED

mohammad  
3/9/2020 3:04:04 PM



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): E



#18

Benzo(a)anthracene

Concen: 12.793 ng/ul

RT: 21.21 min Scan# 5823

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

Tgt Ion:228 Resp: 1274250

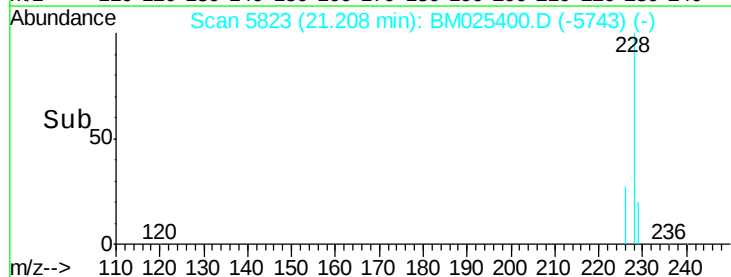
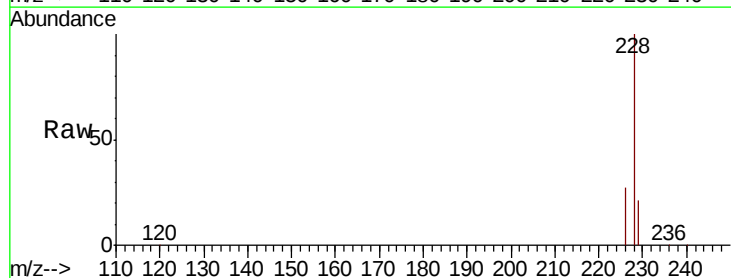
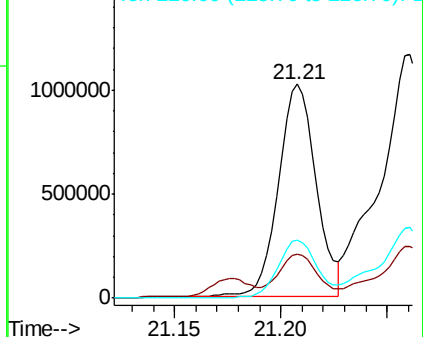
Ion Ratio Lower Upper

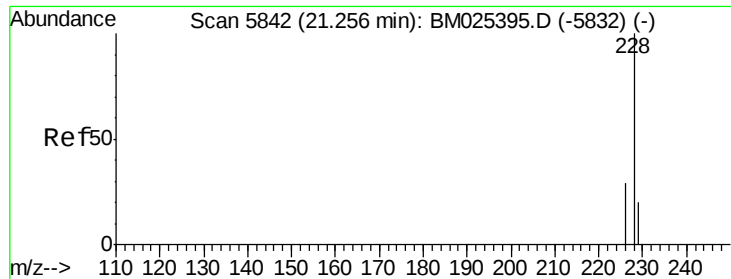
228 100

229 20.7 16.6 25.0

226 27.3 21.9 32.9

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 16.608 ng/ul

RT: 21.26 min Scan# 5845

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

Instrument :

BNA\_M

ClientSampleId :

DBDT4

Tot Ion:228 Resp: 1817556

Ion Ratio Lower Upper

228 100

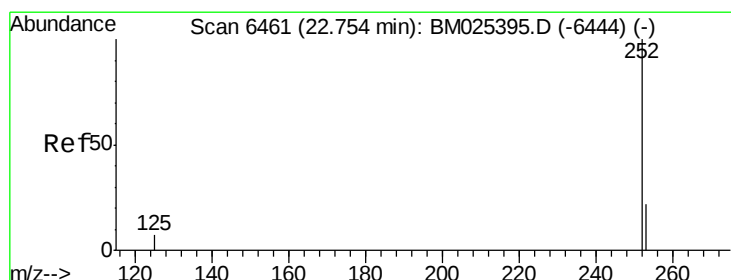
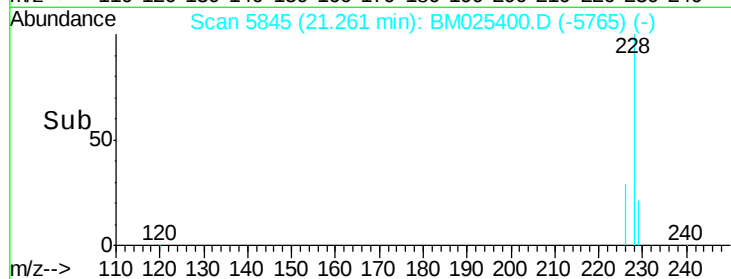
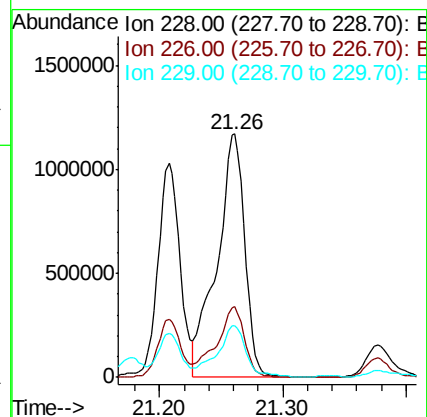
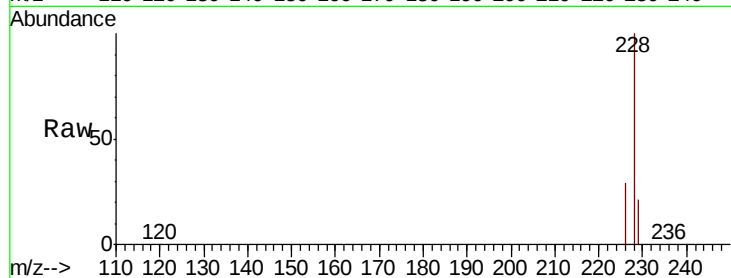
226 28.9 23.8 35.8

229 21.3 16.9 25.3

Manual Integrations  
APPROVED

mohammad

3/9/2020 3:04:04 PM



#21

Benzo(b)fluoranthene

Concen: 19.226 ng/ul m

RT: 22.76 min Scan# 6465

Delta R.T. -0.01 min

Lab File: BM025400.D

Acq: 09 Mar 2020 00:32

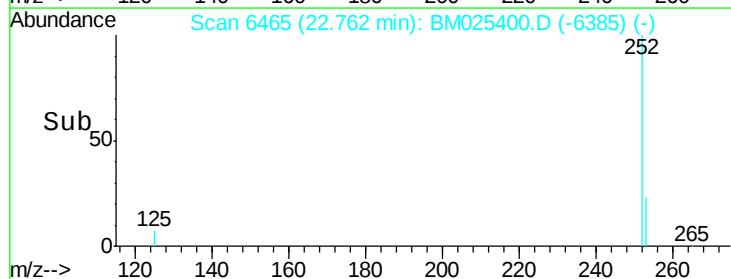
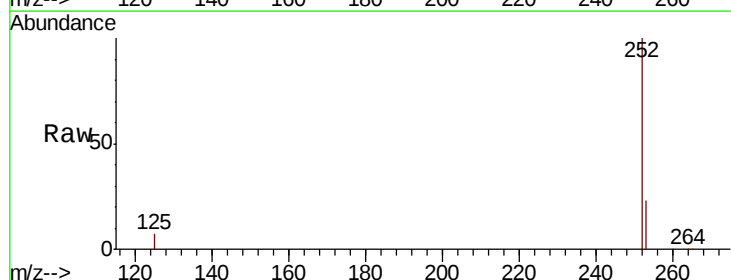
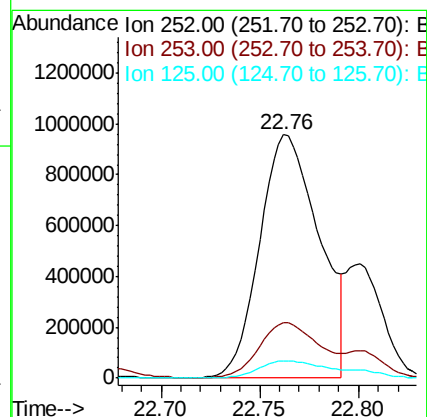
Tgt Ion:252 Resp: 2011084

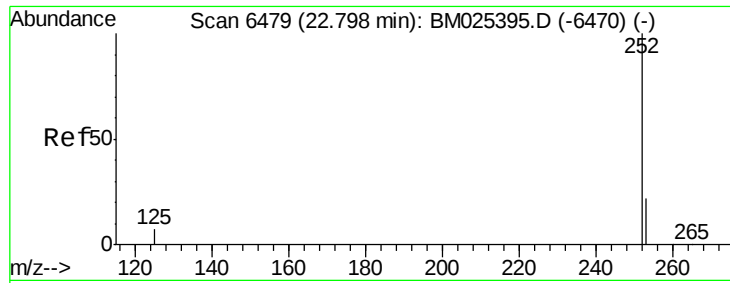
Ion Ratio Lower Upper

252 100

253 22.9 0.0 49.8

125 7.1 0.0 28.6





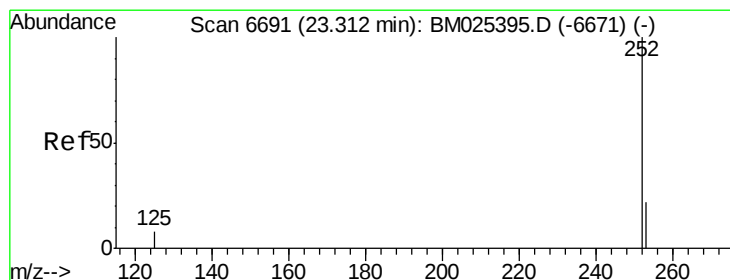
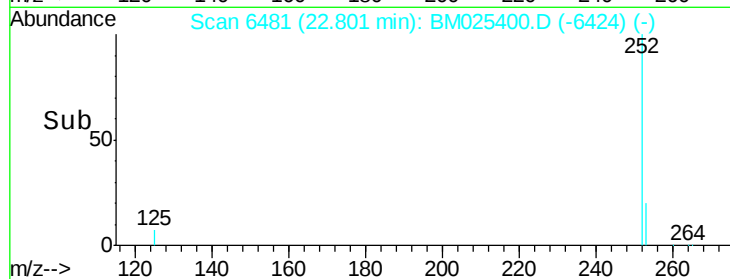
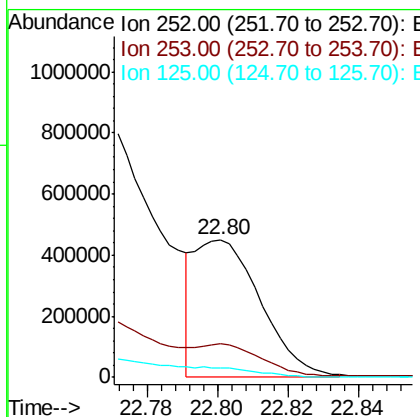
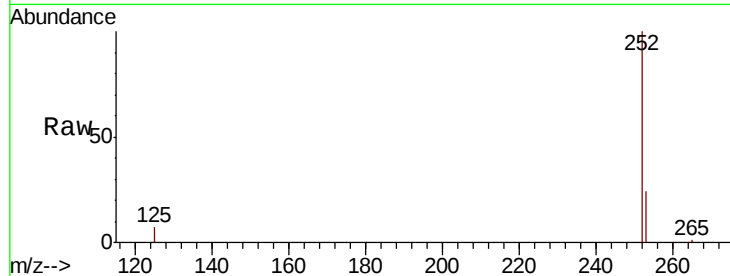
#22  
Benzo(k)fluoranthene  
Concen: 5.315 ng/ul m  
RT: 22.80 min Scan# 6481  
Delta R.T. -0.01 min  
Lab File: BM025400.D  
Acq: 09 Mar 2020 00:32

Instrument :  
BNA\_M  
ClientSampled :  
DBDT4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 19.4  | 29.0  |
| 125     | 7.2   | 10.7  | 16.1  |

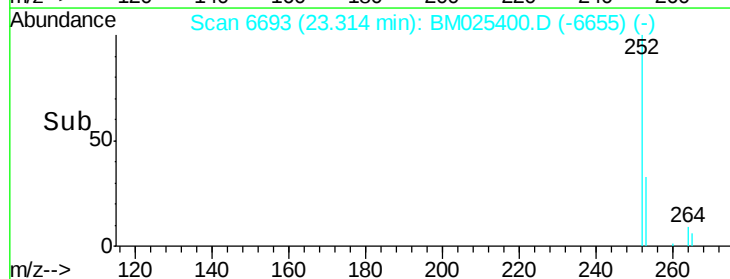
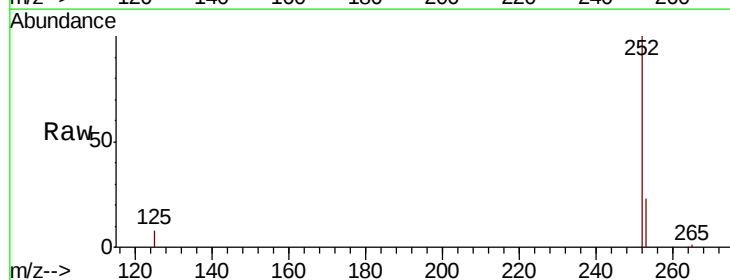
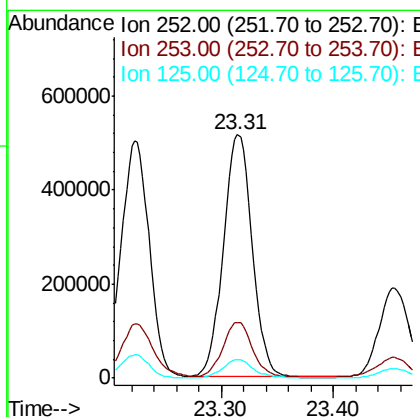
Manual Integrations  
APPROVED

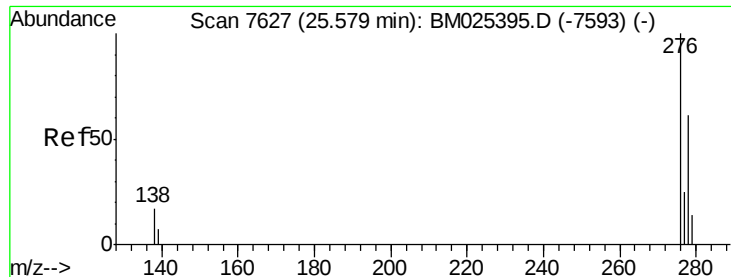
mohammad  
3/9/2020 3:04:04 PM



#23  
Benzo(a)pyrene  
Concen: 10.478 ng/ul  
RT: 23.31 min Scan# 6693  
Delta R.T. -0.01 min  
Lab File: BM025400.D  
Acq: 09 Mar 2020 00:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 20.3  | 30.5  |
| 125     | 7.6   | 13.0  | 19.4  |





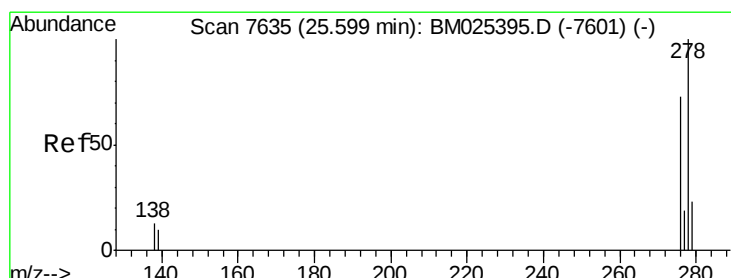
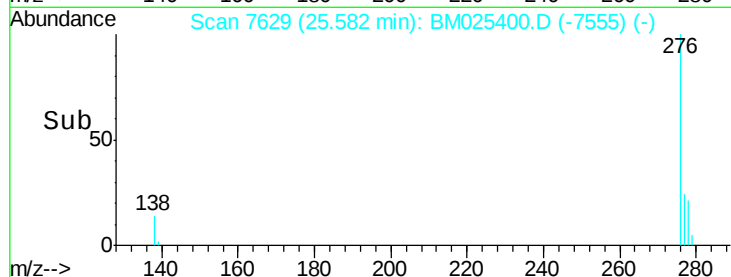
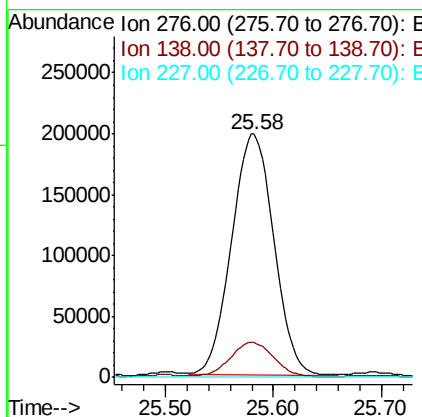
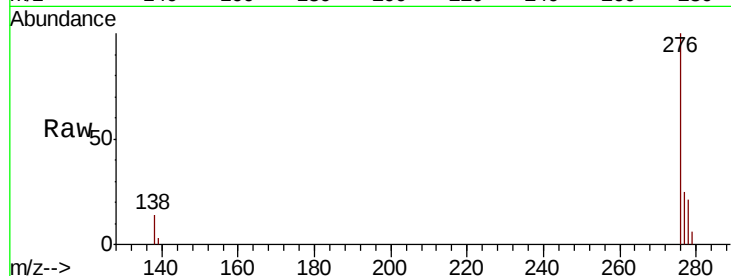
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 4.897 ng/ul  
RT: 25.58 min Scan# 7629  
Delta R.T. -0.02 min  
Lab File: BM025400.D  
Acq: 09 Mar 2020 00:32

Instrument :  
BNA\_M  
ClientSampled :  
DBDT4

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 536075 |       |       |
| 138     | 14.7  | 0.0    | 0.0   | 0.0   |
| 227     | 0.0   | 0.0    | 0.0   | 0.0   |

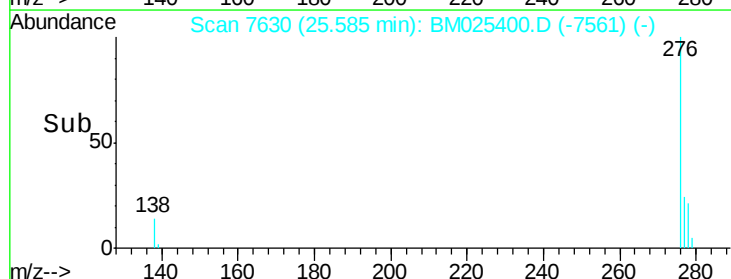
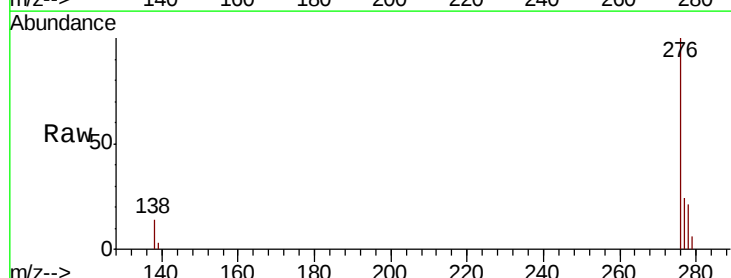
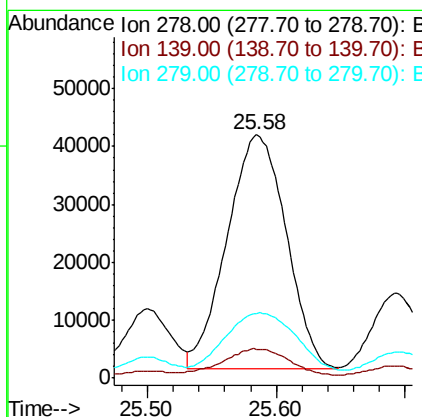
Manual Integrations  
APPROVED

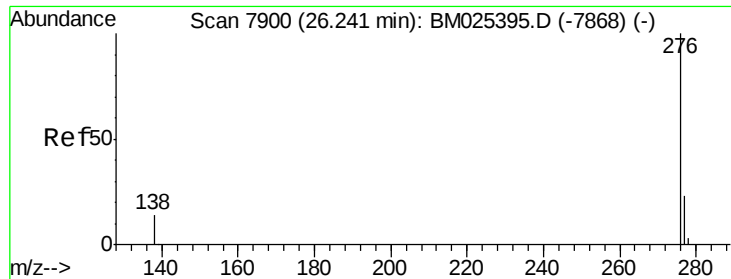
mohammad  
3/9/2020 3:04:04 PM



#25  
Dibenzo(a,h)anthracene  
Concen: 1.416 ng/ul m  
RT: 25.58 min Scan# 7630  
Delta R.T. -0.03 min  
Lab File: BM025400.D  
Acq: 09 Mar 2020 00:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 278     | 100   | 128483 |       |       |
| 139     | 11.9  | 13.2   | 19.8  |       |
| 279     | 26.4  | 21.0   | 31.4  |       |





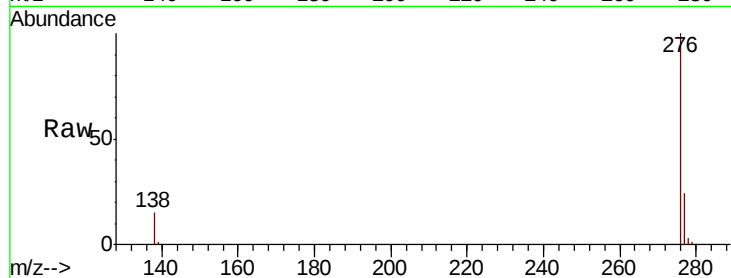
#26  
Benzo(a,h,i)perylene  
Concen: 3.671 ng/ul  
RT: 26.24 min Scan# 7902  
Delta R.T. -0.02 min  
Lab File: BM025400.D  
Acq: 09 Mar 2020 00:32

Instrument :  
BNA\_M  
ClientSampleId :  
DBDT4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.6  | 17.9  | 26.9# |
| 277     | 23.9  | 20.5  | 30.7  |

Manual Integrations  
APPROVED

mohammad  
3/9/2020 3:04:04 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

