

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061019\  
 Data File : BG041166.D  
 Acq On : 10 Jun 2019 17:00  
 Operator : HP/JU  
 Sample : K3250-02  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CHIMNEY-1

Manual Integrations  
 APPROVED

mohammad  
 6/14/2019 8:39:58 AM

Quant Time: Jun 11 06:31:00 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Jun 09 23:08:34 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.11  | 152  | 53914    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 10.93 | 136  | 216274   | 20.00  | ng    | 0.00      |
| 39) Acenaphthene-d10        | 14.74 | 164  | 136251   | 20.00  | ng    | 0.00      |
| 64) Phenanthrene-d10        | 17.49 | 188  | 316011   | 20.00  | ng    | 0.00      |
| 76) Chrysene-d12            | 21.76 | 240  | 329130   | 20.00  | ng    | 0.00      |
| 87) Perylene-d12            | 25.10 | 264  | 332078   | 20.00  | ng    | 0.01      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.65  | 112  | 173834   | 58.14  | ng    | 0.00      |
| 7) Phenol-d6                | 7.25  | 99   | 248859   | 53.89  | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 9.28  | 82   | 173992   | 35.71  | ng    | 0.00      |
| 42) 2,4,6-Tribromophenol    | 16.23 | 330  | 108287   | 53.53  | ng    | 0.00      |
| 45) 2-Fluorobiphenyl        | 13.35 | 172  | 373308   | 39.46  | ng    | 0.00      |
| 79) Terphenyl-d14           | 20.08 | 244  | 596029   | 38.43  | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 32) Benzoic acid            | 10.21 | 122  | 38646    | 20.343 | ng    | Qvalue 97 |
| 37) 2-Methylnaphthalene     | 12.57 | 142  | 26754    | 2.992  | ng    | 88        |
| 50) Dimethylphthalate       | 14.18 | 163  | 24477    | 2.122  | ng    | # 96      |
| 56) 4-Nitrophenol           | 14.95 | 139  | 25966    | 15.224 | ng    | 96        |
| 71) Phenanthrene            | 17.53 | 178  | 111434   | 6.770  | ng    | 97        |
| 75) Fluoranthene            | 19.53 | 202  | 76501    | 3.763  | ng    | 99        |
| 78) Pyrene                  | 19.89 | 202  | 70093    | 3.276  | ng    | 96        |
| 83) Chrysene                | 21.81 | 228  | 53138    | 2.534  | ng    | # 93      |
| 88) Benzo(b)fluoranthene    | 24.03 | 252  | 71728m   | 3.561  | ng    |           |

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

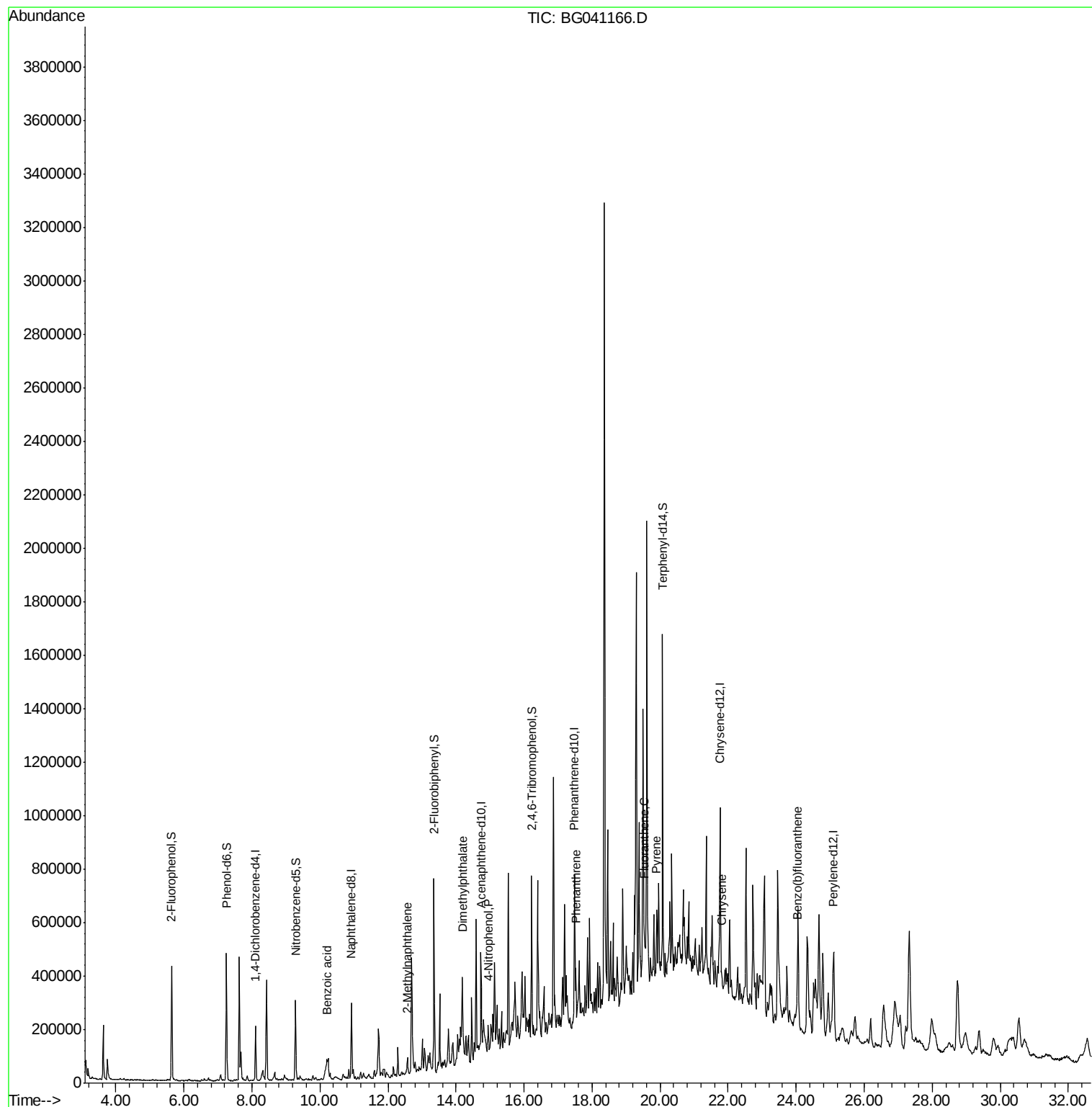
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061019\  
Data File : BG041166.D  
Acq On : 10 Jun 2019 17:00  
Operator : HP/JU  
Sample : K3250-02  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

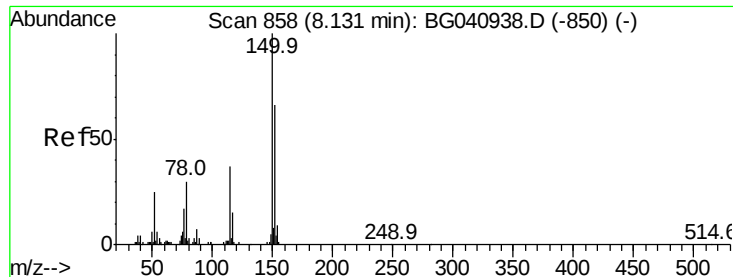
Instrument :  
BNA\_G  
ClientSampleId :  
CHIMNEY-1

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM

Quant Time: Jun 11 06:31:00 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Jun 09 23:08:34 2019  
Response via : Initial Calibration





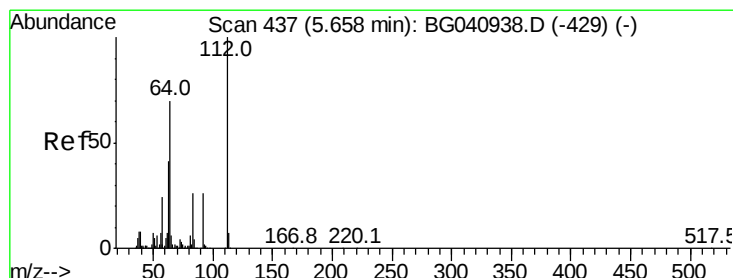
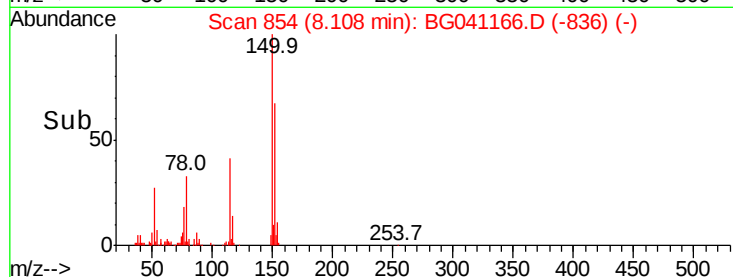
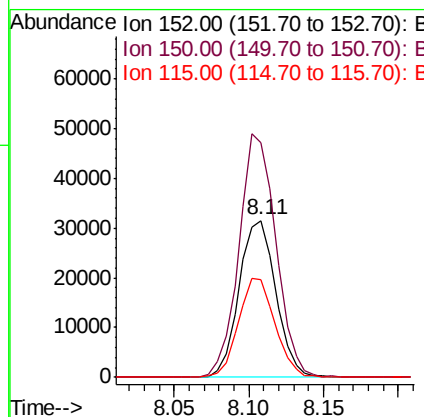
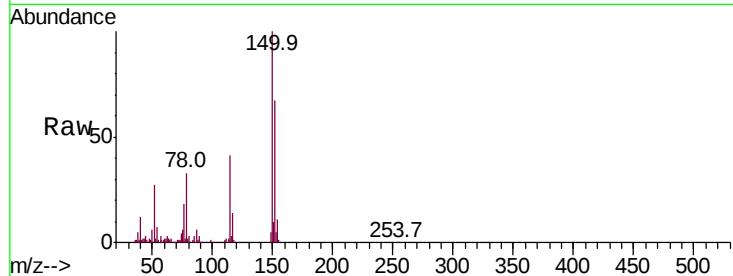
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.11 min Scan# 854  
 Delta R.T. 0.00 min  
 Lab File: BG041166.D  
 Acq: 10 Jun 2019 17:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CHIMNEY-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.9 | 120.6 | 180.8 |
| 115     | 62.0  | 45.1  | 67.7  |

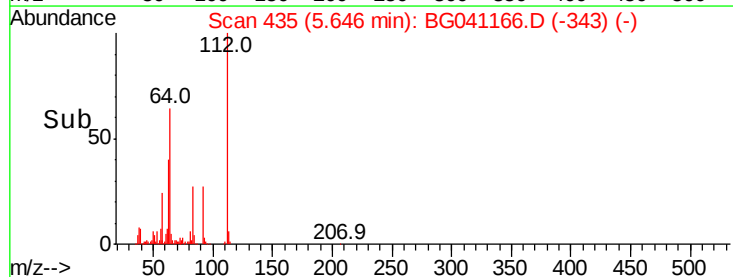
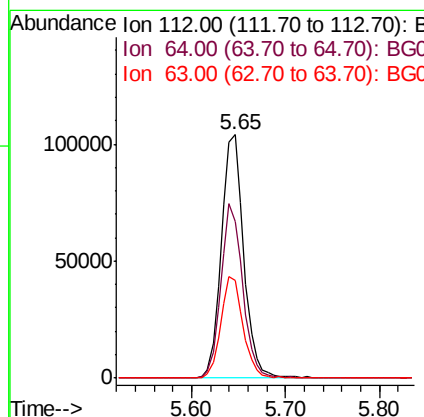
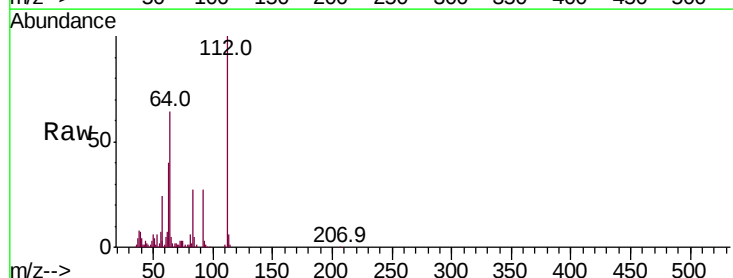
Manual Integrations  
 APPROVED

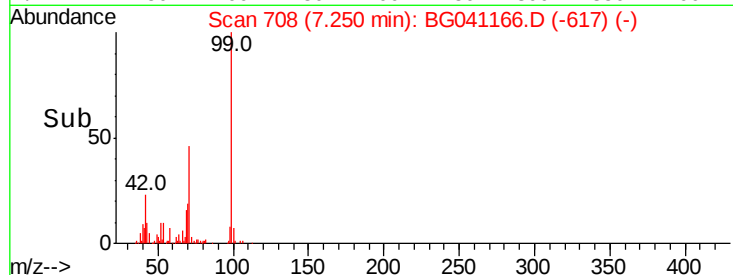
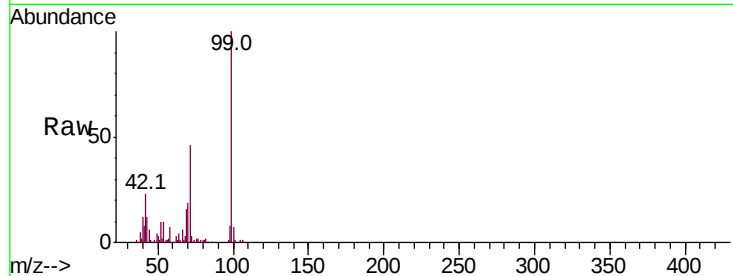
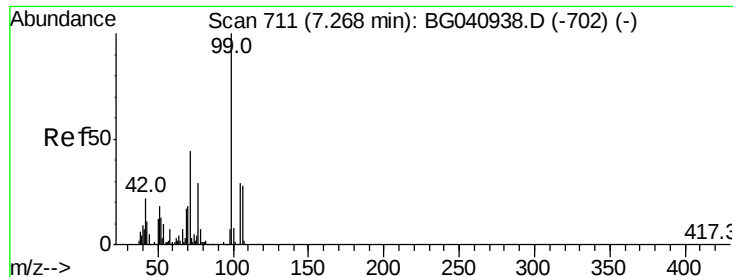
mohammad  
 6/14/2019 8:39:58 AM



#5  
 2-Fluorophenol  
 Concen: 58.141 ng  
 RT: 5.65 min Scan# 435  
 Delta R.T. 0.01 min  
 Lab File: BG041166.D  
 Acq: 10 Jun 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.4  | 56.2  | 84.2  |
| 63      | 40.2  | 32.8  | 49.2  |





#7

Phenol-d6

Concen: 53.894 ng

RT: 7.25 min Scan# 708

Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

| Tot Ion   | 99    | Resp  | 248859 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 23.3  | 17.9  | 26.9   |
| 71        | 46.1  | 35.4  | 53.0   |

Instrument :

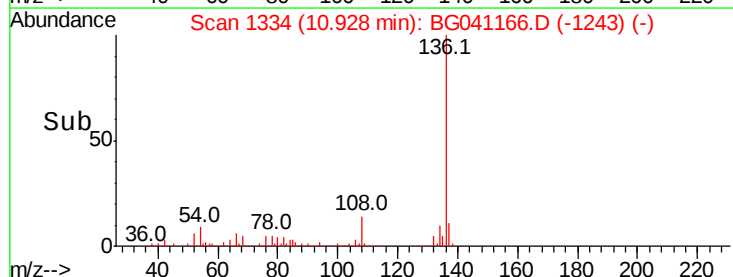
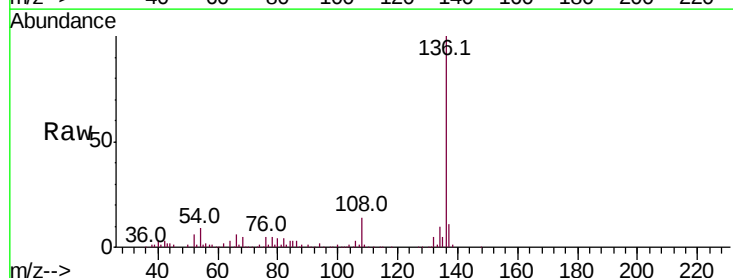
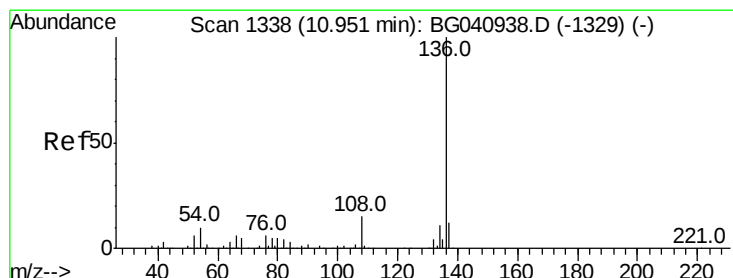
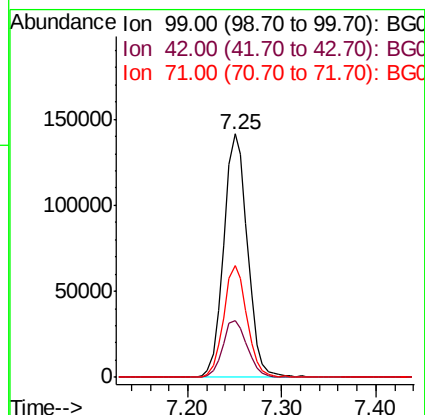
BNA\_G

ClientSampleId :

CHIMNEY-1

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM



#21

Naphthalene-d8

Concen: 20.000 ng

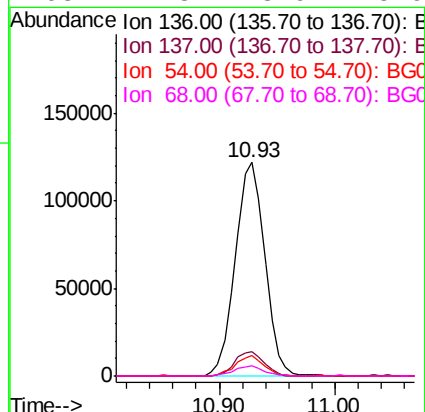
RT: 10.93 min Scan# 1334

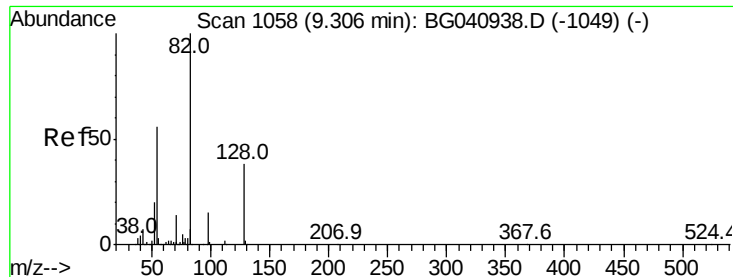
Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

| Tgt Ion   | 136   | Resp  | 216274 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 9.5   | 14.3   |
| 54        | 9.3   | 7.6   | 11.4   |
| 68        | 4.8   | 3.9   | 5.9    |





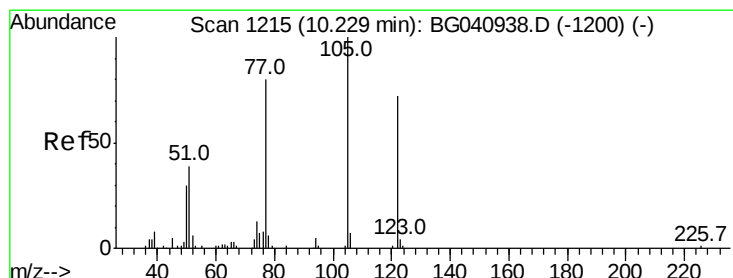
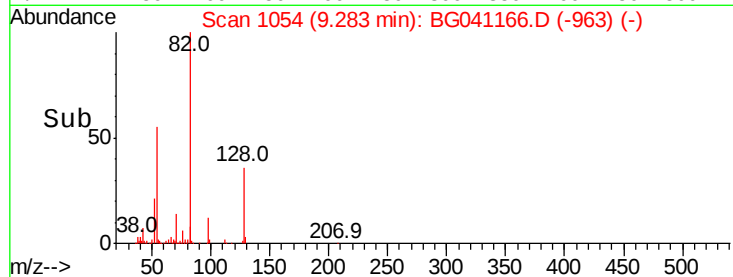
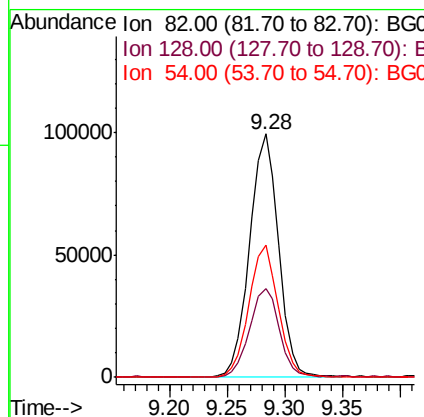
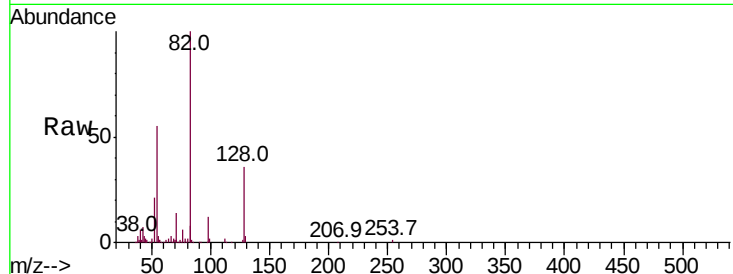
#23  
 Nitrobenzene-d5  
 Concen: 35.715 ng  
 RT: 9.28 min Scan# 1054  
 Delta R.T. 0.00 min  
 Lab File: BG041166.D  
 Acq: 10 Jun 2019 17:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CHIMNEY-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 36.5  | 30.5  | 45.7  |
| 54      | 54.5  | 44.6  | 66.8  |

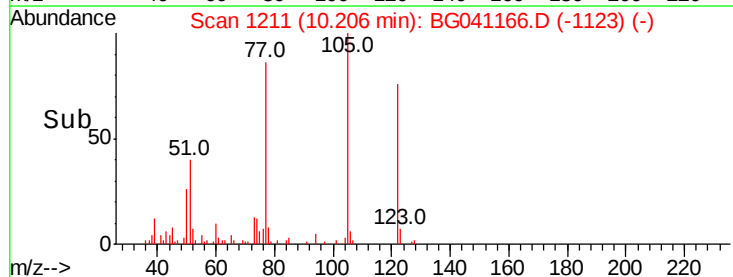
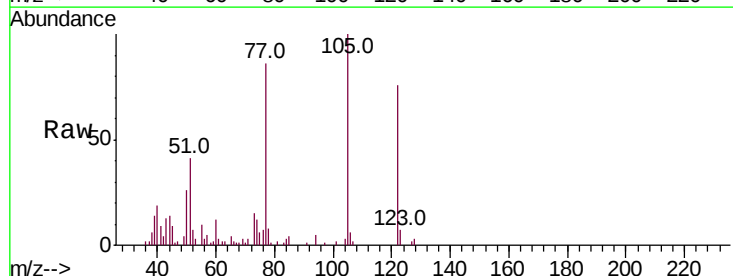
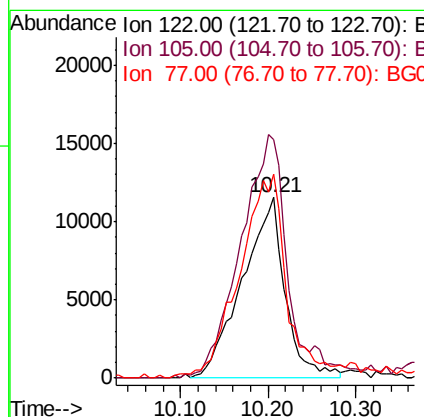
Manual Integrations  
 APPROVED

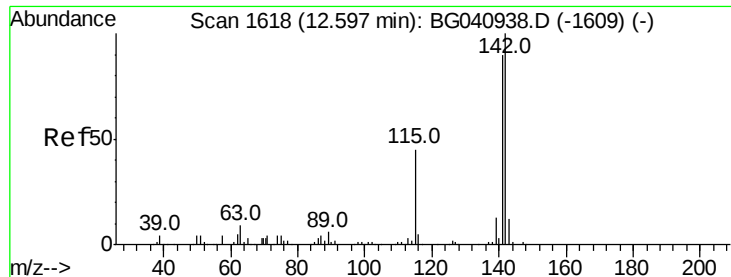
mohammad  
 6/14/2019 8:39:58 AM



#32  
 Benzoic acid  
 Concen: 20.343 ng  
 RT: 10.21 min Scan# 1211  
 Delta R.T. -0.01 min  
 Lab File: BG041166.D  
 Acq: 10 Jun 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 132.1 | 114.8 | 154.8 |
| 77      | 113.1 | 89.9  | 129.9 |





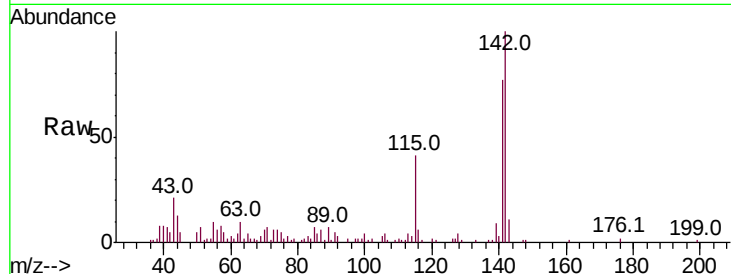
#37  
2-Methylnaphthalene  
Concen: 2.992 ng  
RT: 12.57 min Scan# 1614  
Delta R.T. 0.00 min  
Lab File: BG041166.D  
Acq: 10 Jun 2019 17:00

Instrument :  
BNA\_G  
ClientSampleId :  
CHIMNEY-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 77.1  | 72.2  | 108.4 |
| 115     | 40.8  | 36.2  | 54.4  |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM

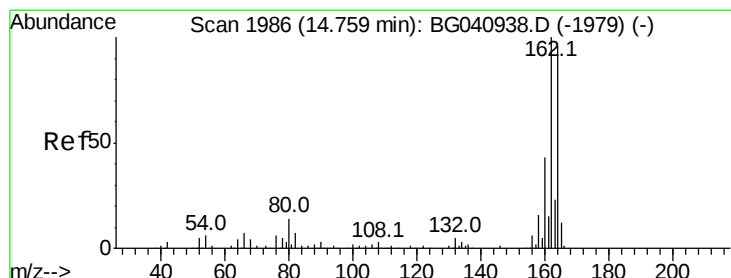
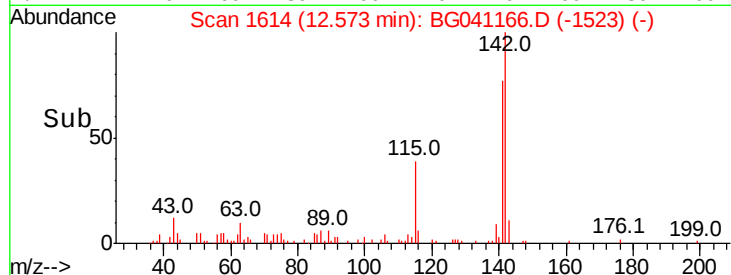
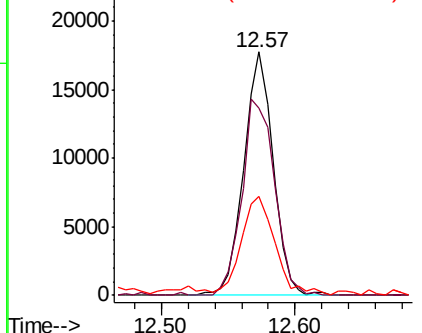


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.74 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: BG041166.D  
Acq: 10 Jun 2019 17:00

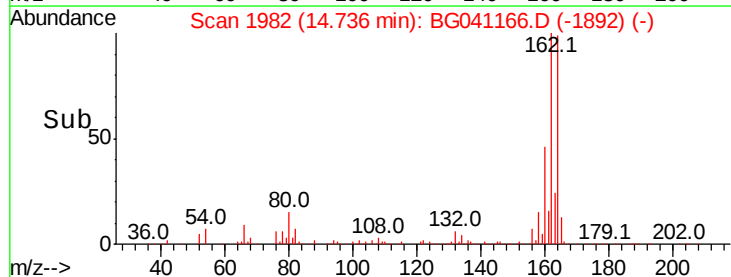
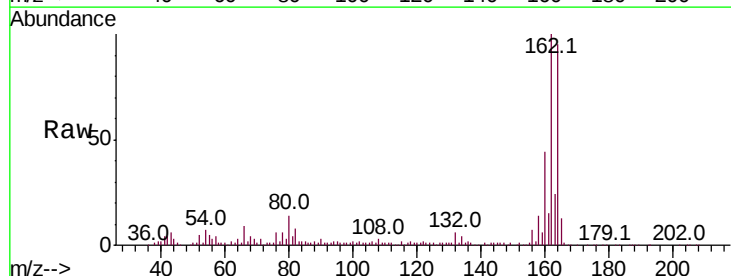
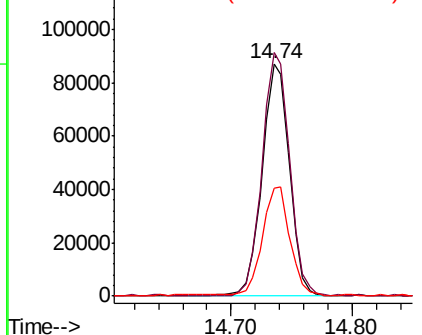
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.7 | 83.0  | 124.4 |
| 160     | 46.4  | 35.6  | 53.4  |

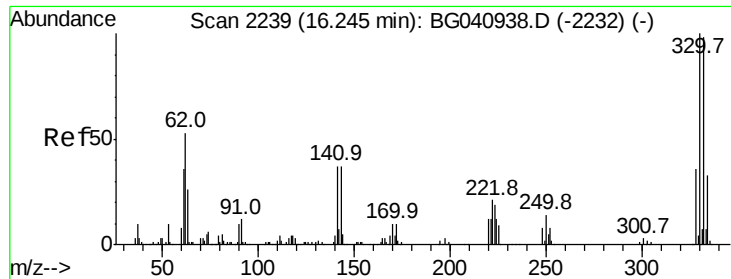
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 53.535 ng

RT: 16.23 min Scan# 2236

Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

Instrument :

BNA\_G

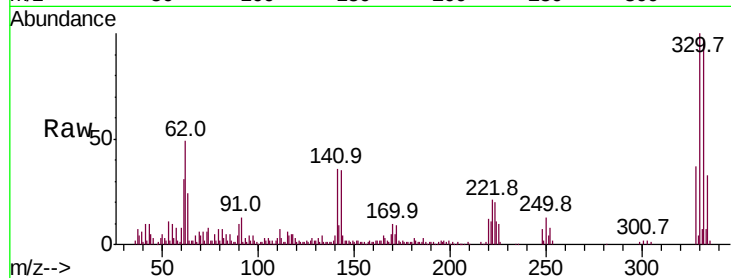
ClientSampleId :

CHIMNEY-1

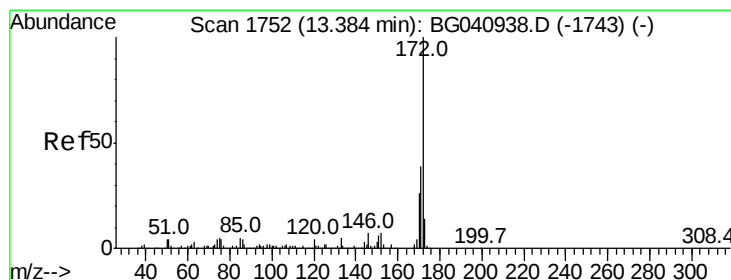
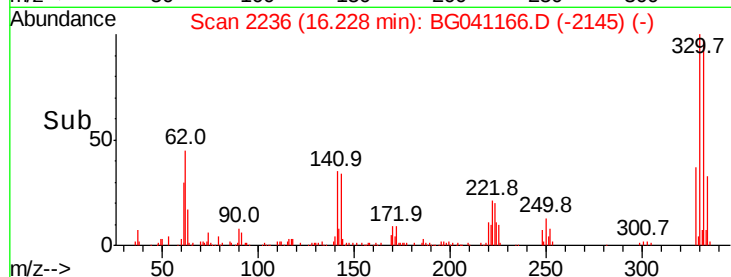
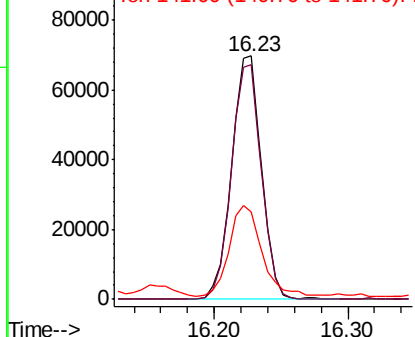
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 108287 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.6  | 78.5  | 117.7  |
| 141       | 40.5  | 28.7  | 43.1   |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 39.457 ng

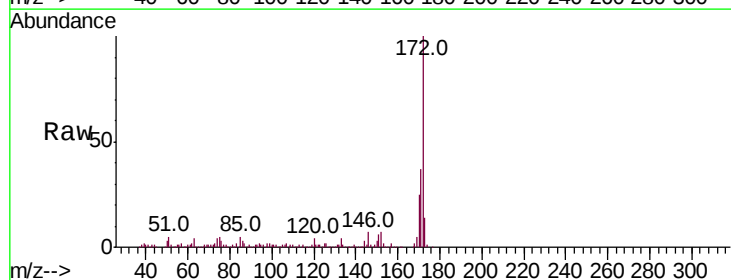
RT: 13.35 min Scan# 1747

Delta R.T. -0.00 min

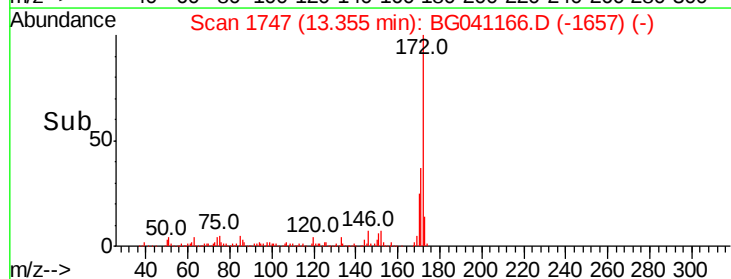
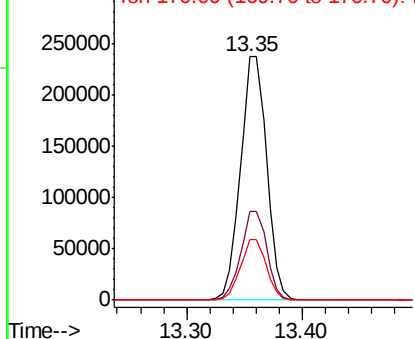
Lab File: BG041166.D

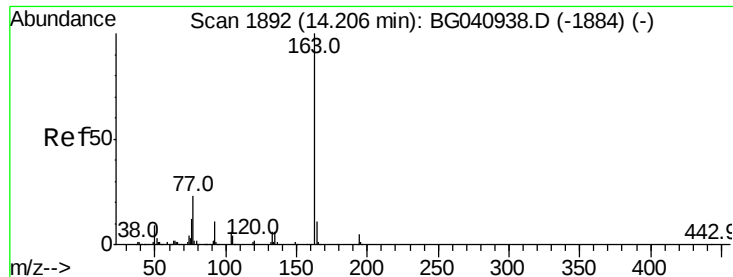
Acq: 10 Jun 2019 17:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 373308 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.7  | 31.1  | 46.7   |
| 170       | 24.9  | 20.5  | 30.7   |



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 2.122 ng

RT: 14.18 min Scan# 1887

Delta R.T. -0.01 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

Instrument :

BNA\_G

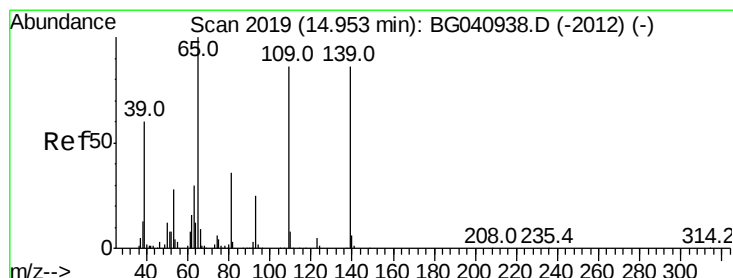
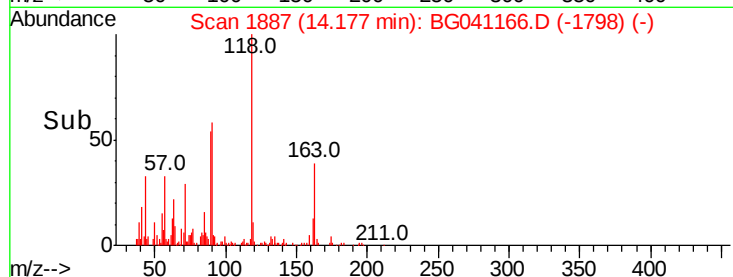
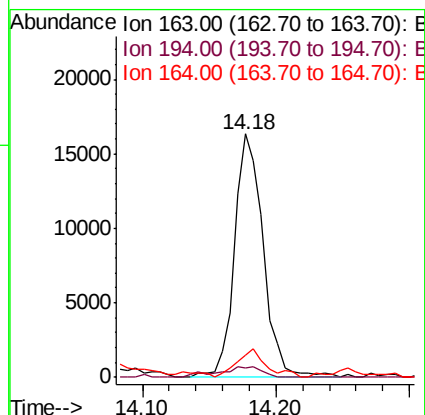
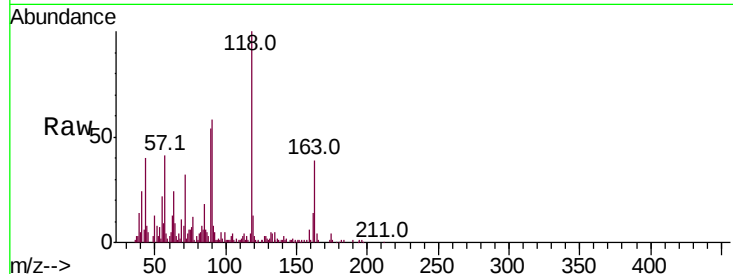
ClientSampleId :

CHIMNEY-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 24477 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.7   | 3.8   | 5.8#  |
| 164       | 9.3   | 8.7   | 13.1  |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM



#56

4-Nitrophenol

Concen: 15.224 ng

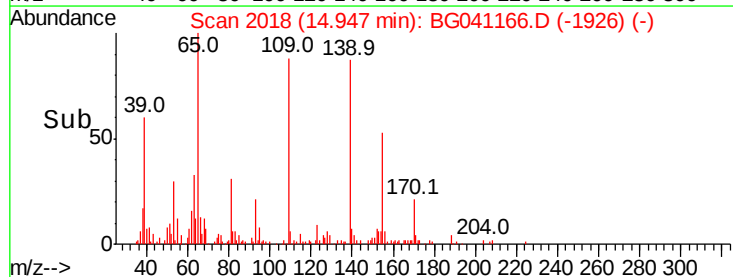
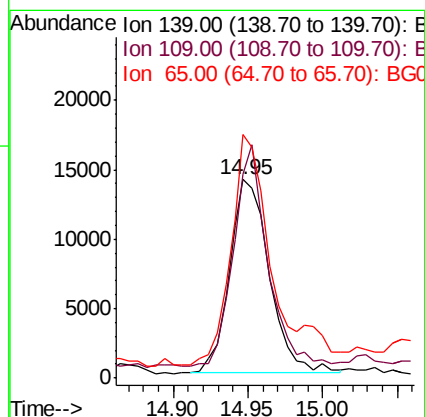
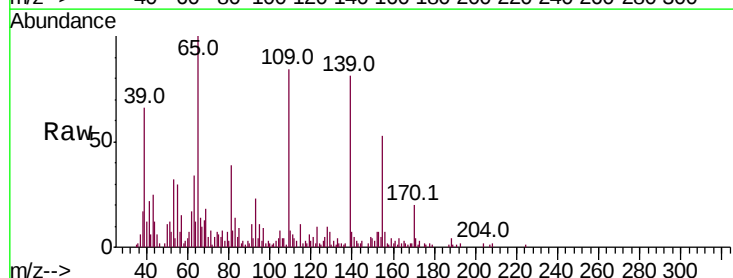
RT: 14.95 min Scan# 2018

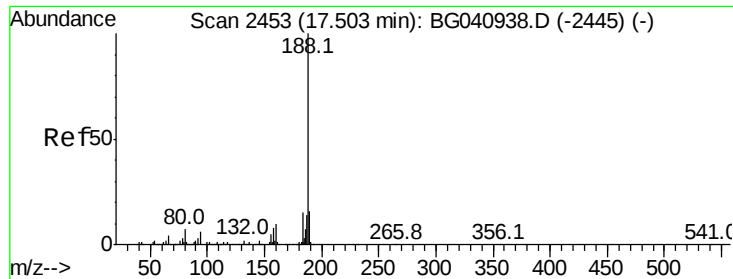
Delta R.T. 0.01 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 139   | Resp: | 25966 |
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 103.0 | 79.6  | 119.6 |
| 65        | 122.8 | 96.9  | 136.9 |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.49 min Scan# 2450

Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

Instrument :

BNA\_G

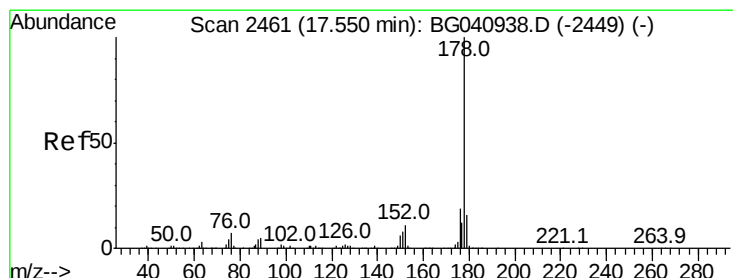
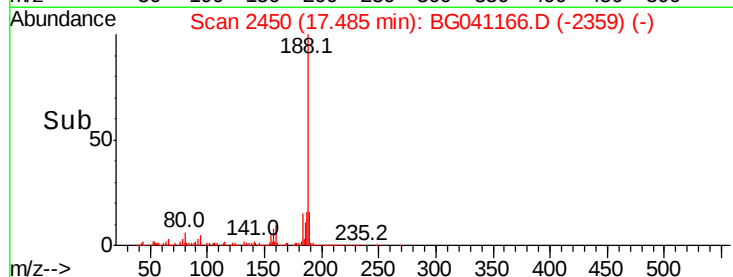
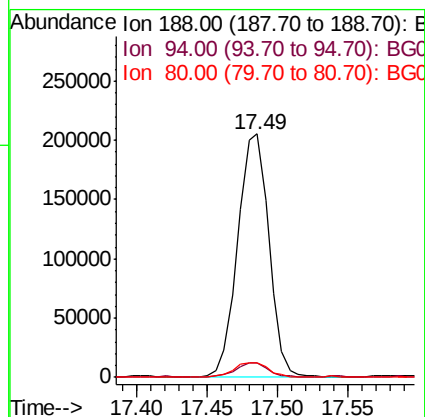
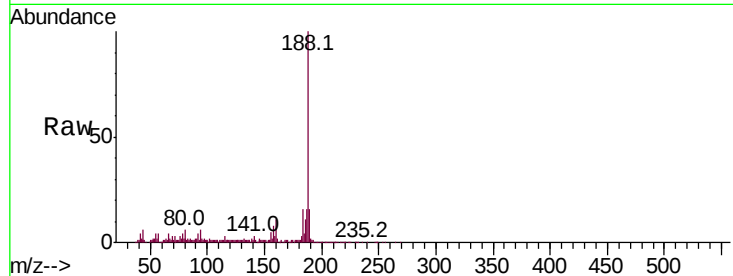
ClientSampleId :

CHIMNEY-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 316011 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 5.8   | 4.7   | 7.1    |
| 80        | 6.1   | 5.8   | 8.8    |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM



#71

Phenanthrene

Concen: 6.770 ng

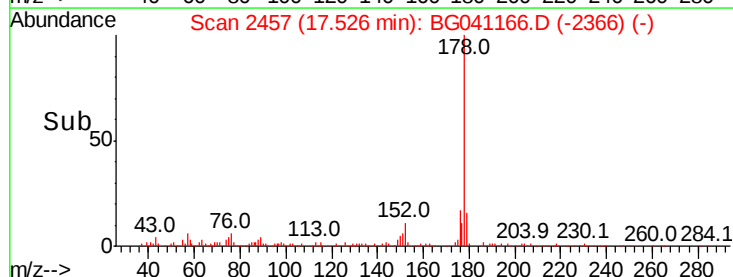
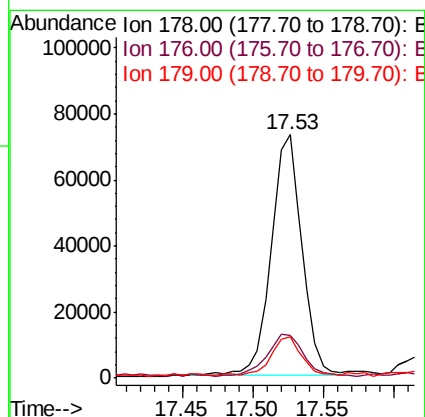
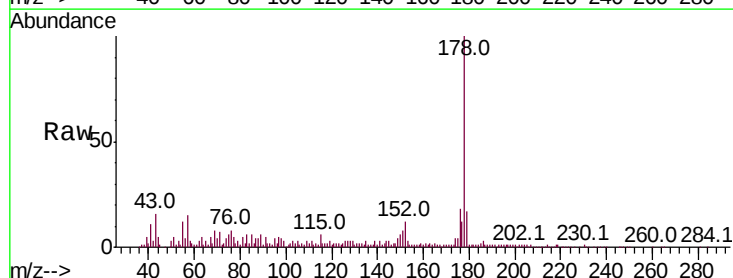
RT: 17.53 min Scan# 2457

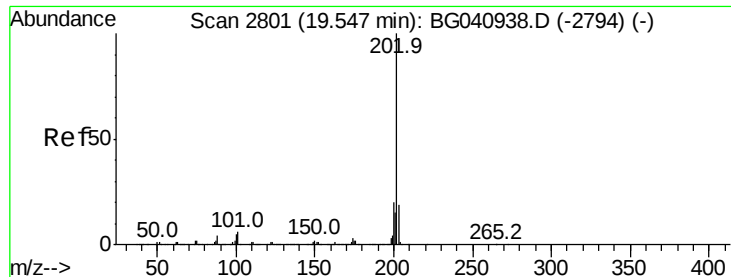
Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 111434 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 17.6  | 15.5  | 23.3   |
| 179       | 17.0  | 12.7  | 19.1   |





#75

Fluoranthene

Concen: 3.763 ng

RT: 19.53 min Scan# 2798

Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

Instrument :

BNA\_G

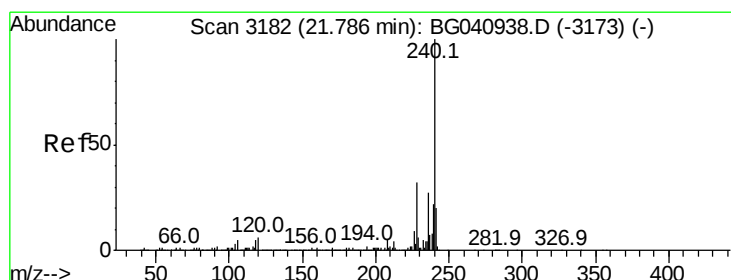
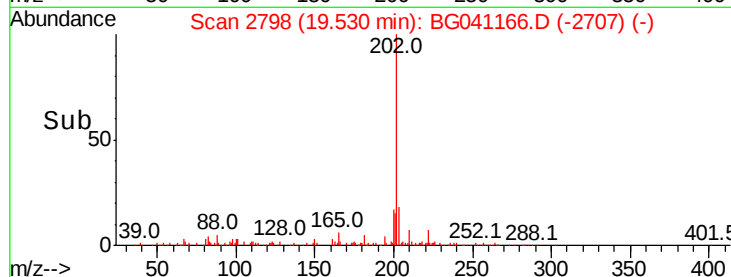
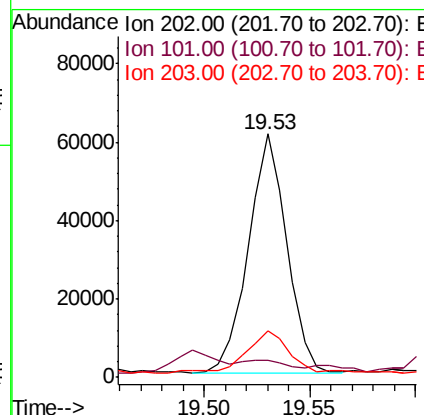
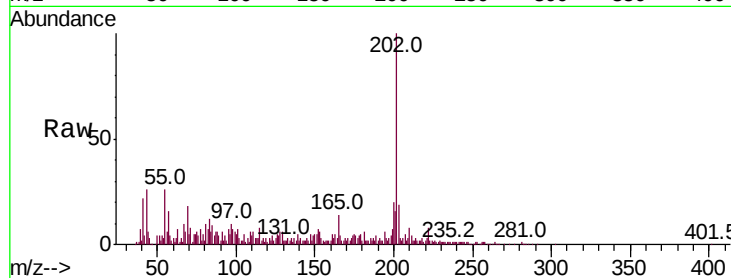
ClientSampleId :

CHIMNEY-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 76501 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 6.9   | 0.0   | 26.2  |
| 203       | 19.2  | 0.0   | 38.7  |

Manual Integrations  
APPROVED

mohammad  
6/14/2019 8:39:58 AM



#76

Chrysene-d12

Concen: 20.000 ng

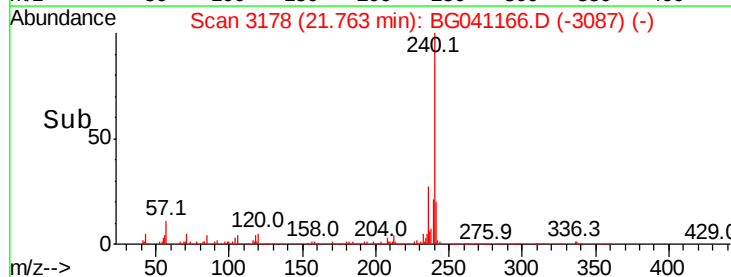
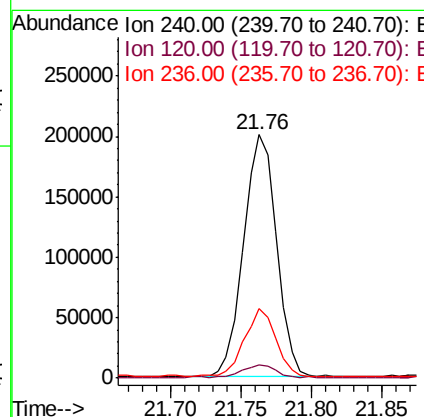
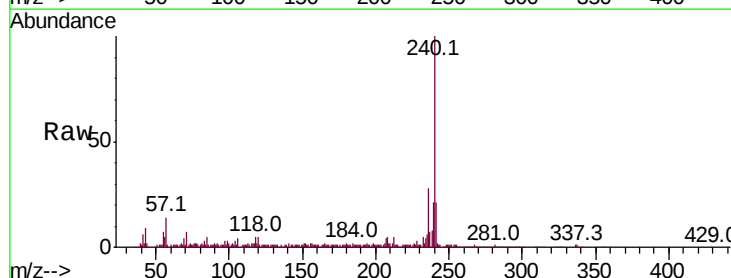
RT: 21.76 min Scan# 3178

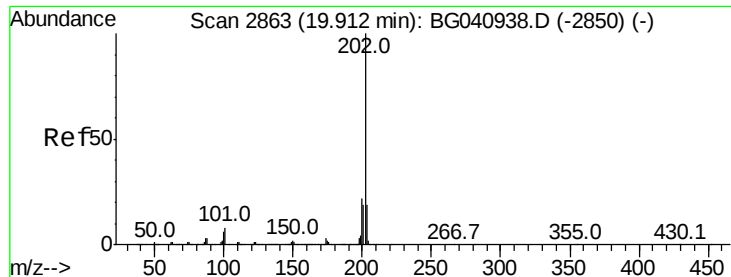
Delta R.T. 0.00 min

Lab File: BG041166.D

Acq: 10 Jun 2019 17:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 329130 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 5.2   | 4.5   | 6.7    |
| 236       | 28.4  | 21.3  | 31.9   |





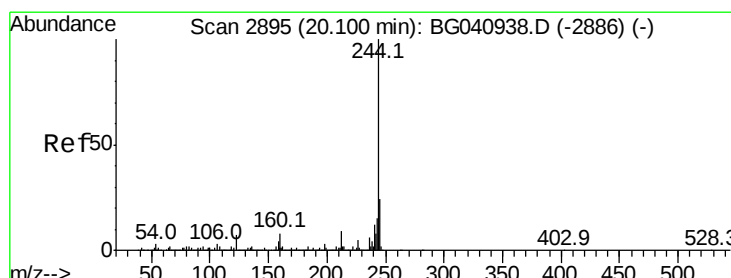
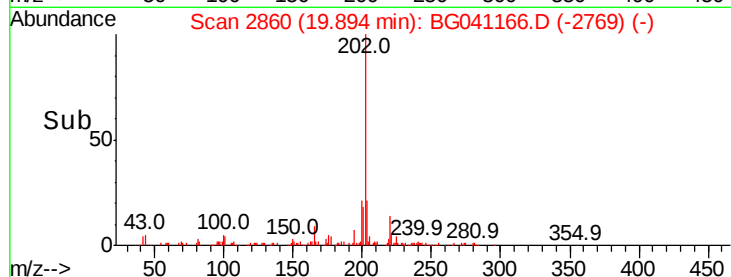
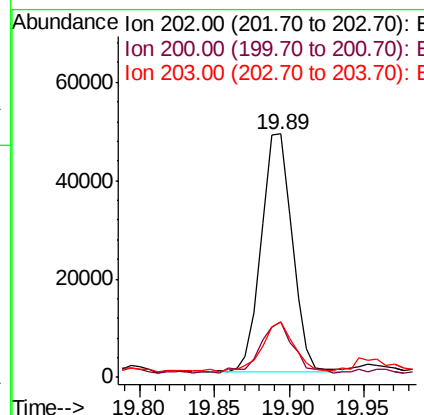
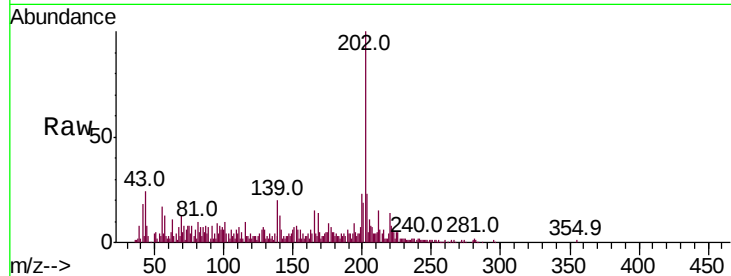
#78  
Pvrene  
Concen: 3.276 ng  
RT: 19.89 min Scan# 2860  
Delta R.T. 0.00 min  
Lab File: BG041166.D  
Acq: 10 Jun 2019 17:00

Instrument :  
BNA\_G  
ClientSampleId :  
CHIMNEY-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 22.9  | 17.5       | 26.3  |
| 203     | 22.8  | 15.6       | 23.4  |

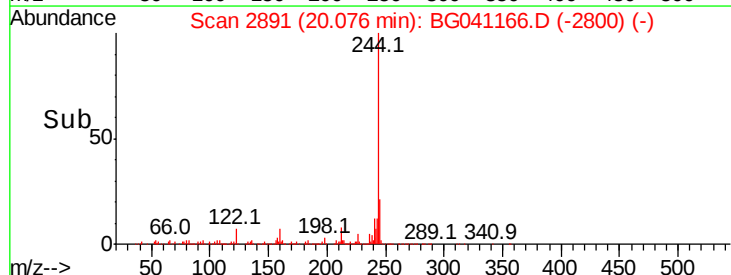
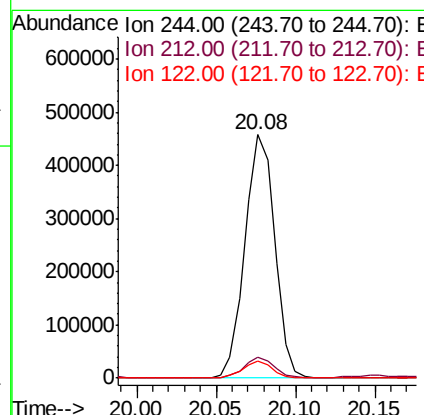
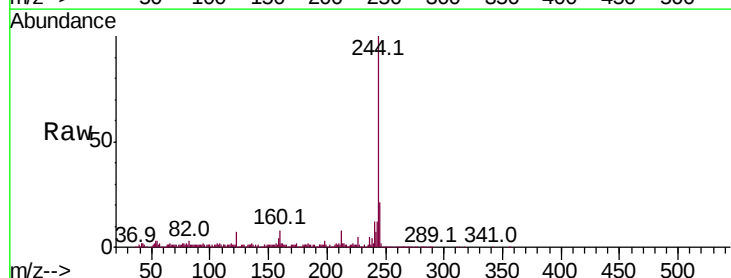
Manual Integrations  
APPROVED

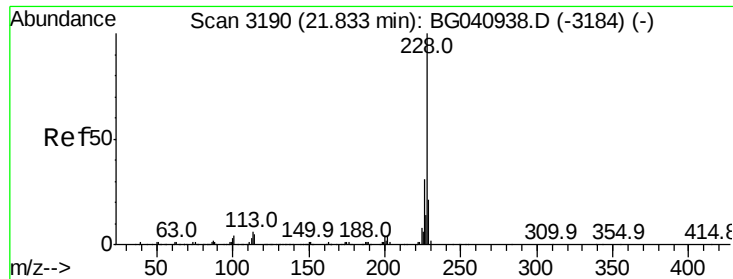
mohammad  
6/14/2019 8:39:58 AM



#79  
Terphenyl-d14  
Concen: 38.434 ng  
RT: 20.08 min Scan# 2891  
Delta R.T. 0.00 min  
Lab File: BG041166.D  
Acq: 10 Jun 2019 17:00

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 8.5   | 7.0        | 10.4  |
| 122     | 6.8   | 5.4        | 8.0   |





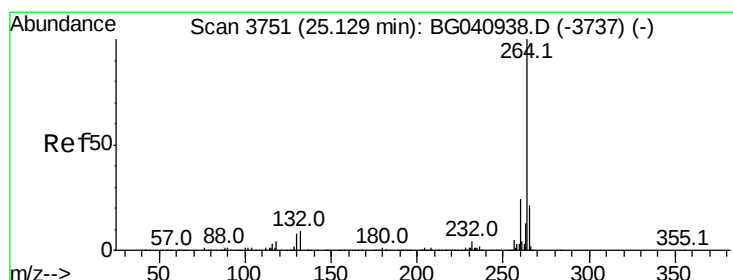
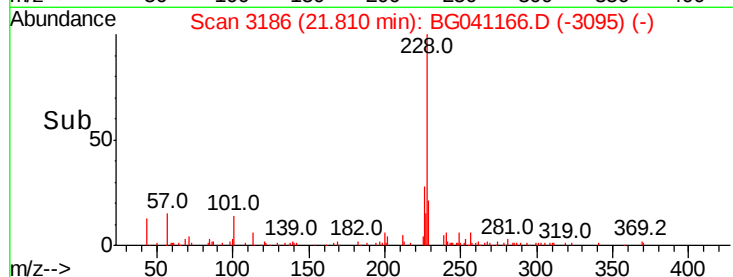
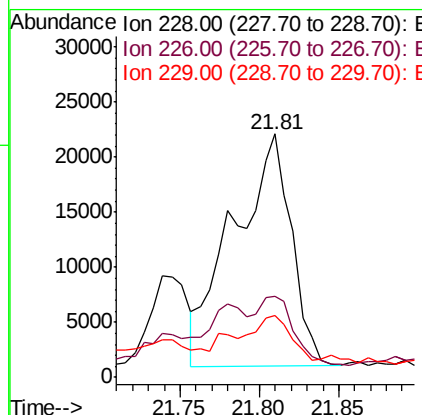
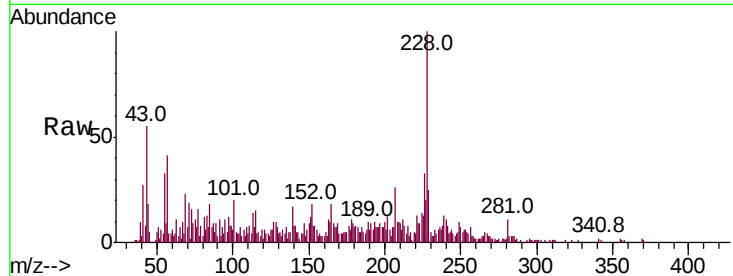
#83  
Chrysene  
Concen: 2.534 ng  
RT: 21.81 min Scan# 3186  
Delta R.T. 0.00 min  
Lab File: BG041166.D  
Acq: 10 Jun 2019 17:00

Instrument :  
BNA\_G  
ClientSampleId :  
CHIMNEY-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.4  | 24.6  | 37.0  |
| 229     | 25.4  | 16.6  | 24.8  |

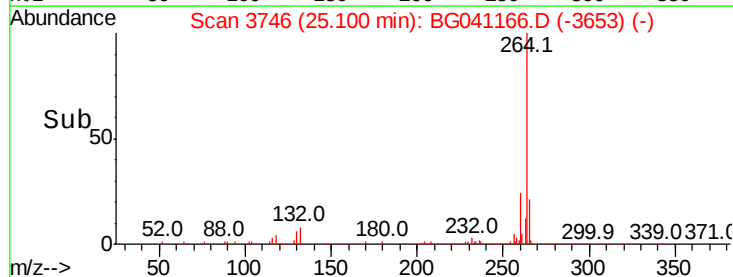
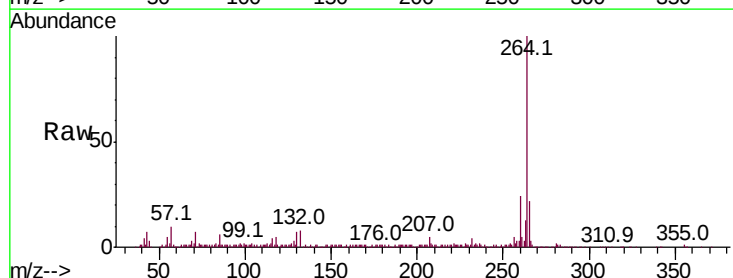
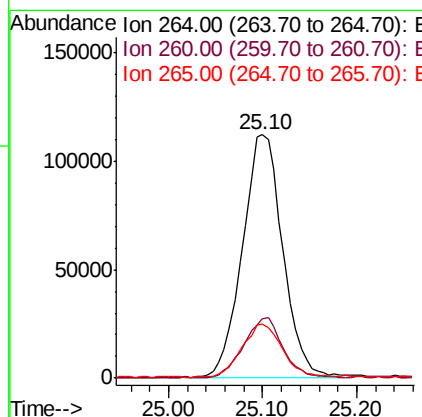
Manual Integrations  
APPROVED

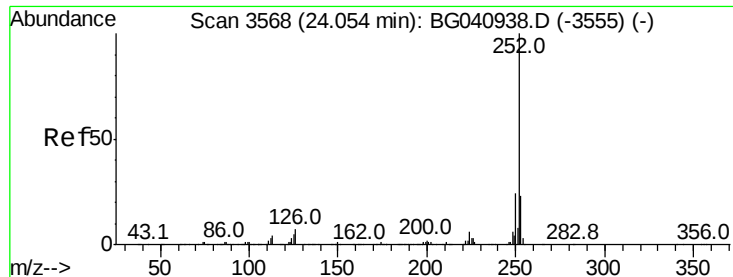
mohammad  
6/14/2019 8:39:58 AM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.10 min Scan# 3746  
Delta R.T. 0.01 min  
Lab File: BG041166.D  
Acq: 10 Jun 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.0  | 28.4  |
| 265     | 22.0  | 17.0  | 25.4  |





#88  
 Benzo(b)fluoranthene  
 Concen: 3.561 ng m  
 RT: 24.03 min Scan# 3564  
 Delta R.T. 0.01 min  
 Lab File: BG041166.D  
 Acq: 10 Jun 2019 17:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CHIMNEY-1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 71728 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 18.4  | 27.6  |
| 125       | 9.8   | 4.3   | 6.5#  |

Manual Integrations  
 APPROVED

mohammad  
 6/14/2019 8:39:58 AM

