

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092718\  
 Data File : BF109407.D  
 Acq On : 28 Sep 2018 1:45  
 Operator : JU/SJ  
 Sample : J5084-21  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-13(1-1.5)

Manual Integrations  
 APPROVED

Sohil  
 9/28/2018 2:40:34 PM

Quant Time: Sep 28 07:19:15 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 123424   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.99  | 136  | 471038   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.74  | 164  | 221688   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 376829   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.84 | 240  | 267896   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.24 | 264  | 232977   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 631521   | 84.28  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 816844   | 85.43  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 536382   | 67.22  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 196744   | 90.03  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 952088   | 64.77  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 706396   | 64.71  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.46  | 163  | 301666   | 18.709 | ng    | 100      |
| 70) Phenanthrene            | 11.24 | 178  | 117666   | 6.254  | ng    | 97       |
| 74) Fluoranthene            | 12.42 | 202  | 147745   | 7.348  | ng    | 95       |
| 77) Pyrene                  | 12.64 | 202  | 150854   | 7.857  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.83 | 228  | 61880    | 3.835  | ng    | 96       |
| 82) Chrysene                | 13.86 | 228  | 70280    | 4.394  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.84 | 252  | 69944m   | 5.464  | ng    |          |
| 89) Benzo(a)pyrene          | 15.18 | 252  | 46476    | 4.029  | ng    | 99       |
| 91) Benzo(g,h,i)perylene    | 16.99 | 276  | 24885    | 2.676  | ng    | 91       |

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

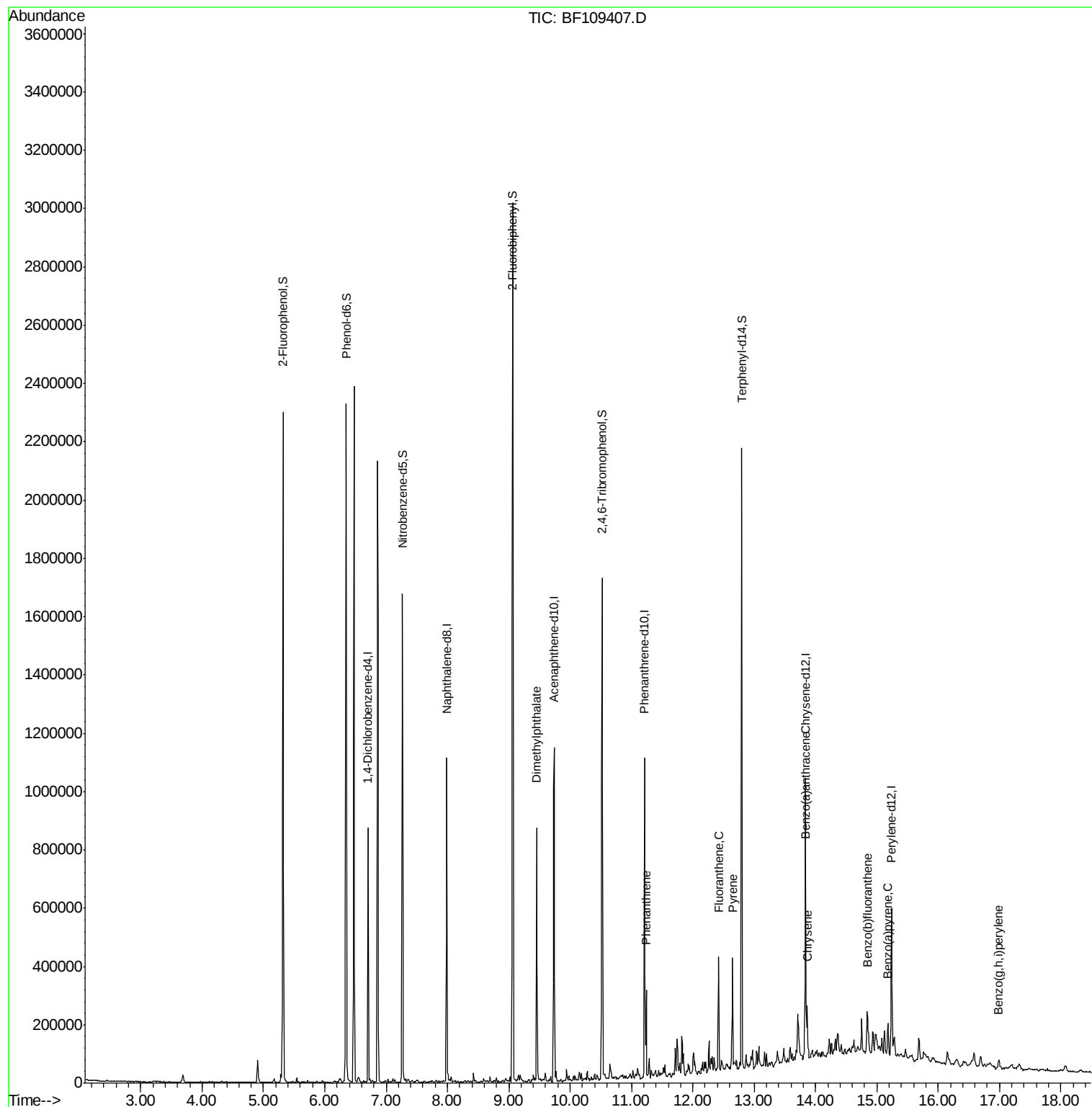
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092718\  
Data File : BF109407.D  
Acq On : 28 Sep 2018 1:45  
Operator : JU/SJ  
Sample : J5084-21  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
B-13(1-1.5)

Manual Integrations  
APPROVED

Sohil  
9/28/2018 2:40:34 PM

Quant Time: Sep 28 07:19:15 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 22 13:32:18 2018  
Response via : Initial Calibration





#1

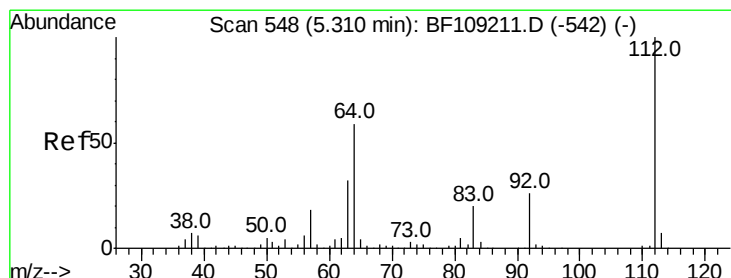
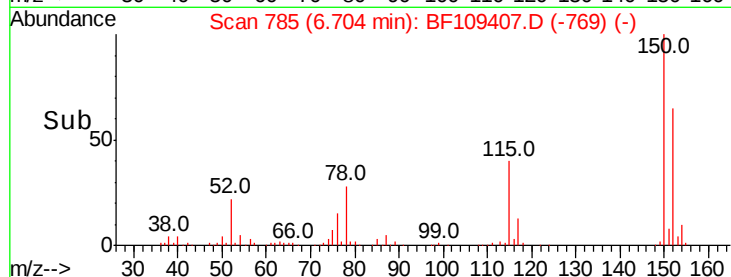
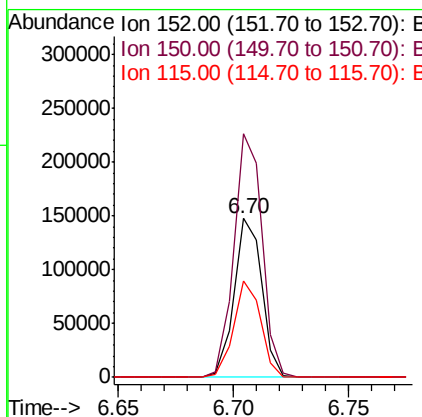
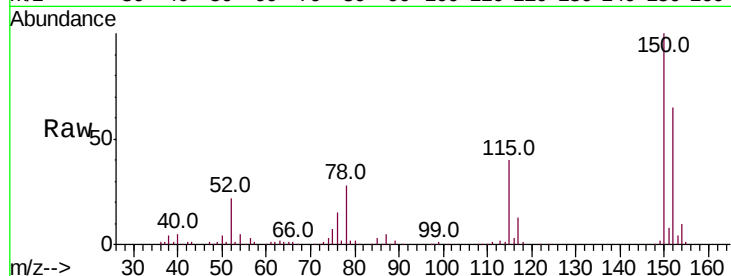
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-13(1-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.3 | 124.6 | 186.8 |
| 115     | 61.0  | 50.1  | 75.1  |

Manual Integrations  
APPROVED

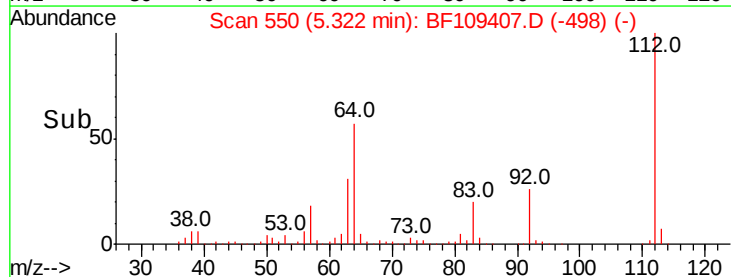
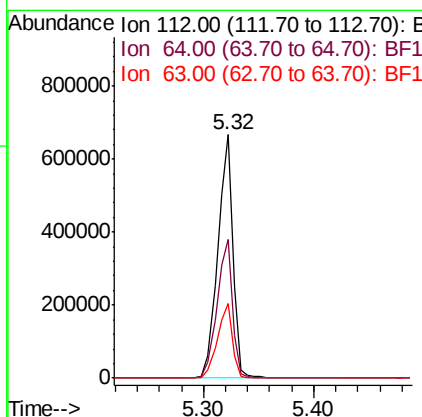
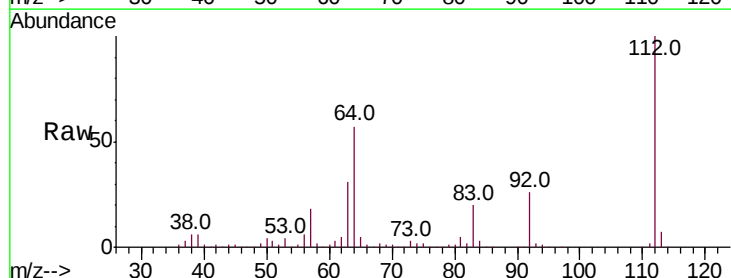
Sohil  
9/28/2018 2:40:34 PM



#5

2-Fluorophenol  
Concen: 84.276 ng  
RT: 5.32 min Scan# 550  
Delta R.T. 0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 47.9  | 71.9  |
| 63      | 30.8  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 85.426 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF109407.D

Acq: 28 Sep 2018 1:45

Instrument :

BNA\_F

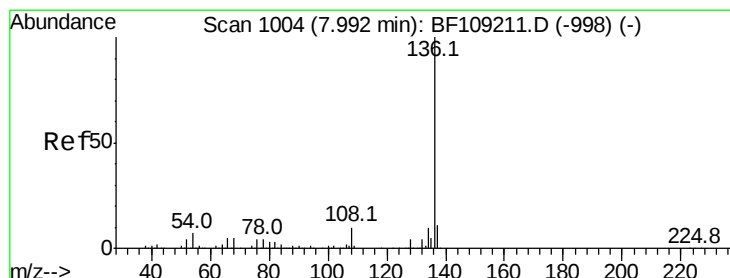
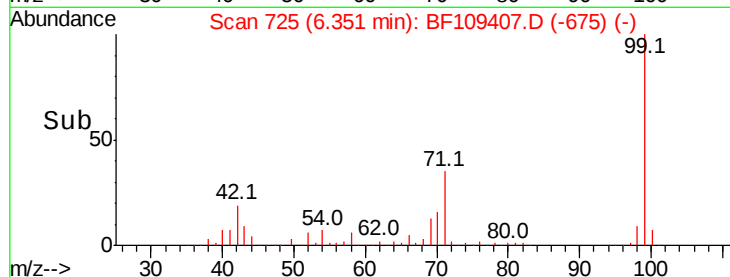
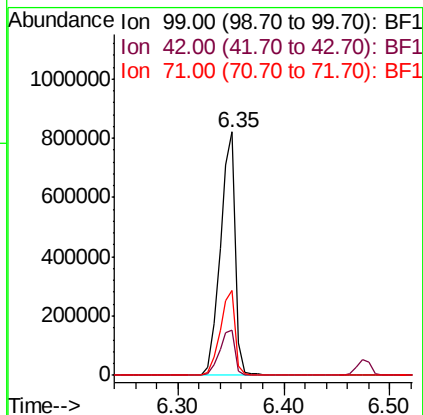
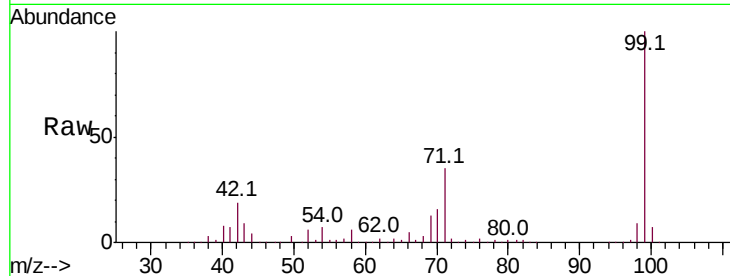
ClientSampled :

B-13(1-1.5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 816844 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.5  | 14.5  | 21.7   |
| 71        | 35.0  | 25.4  | 38.0   |

Manual Integrations  
APPROVED

Sohil  
9/28/2018 2:40:34 PM



#21

Naphthalene-d8

Concen: 20.000 ng

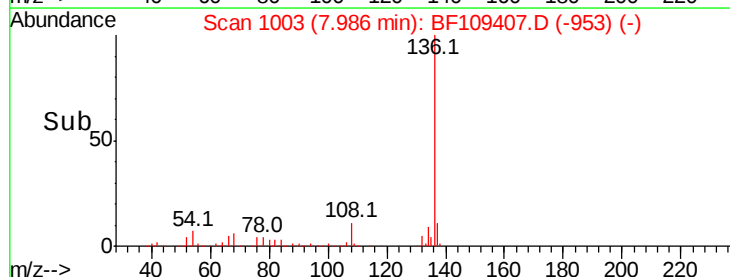
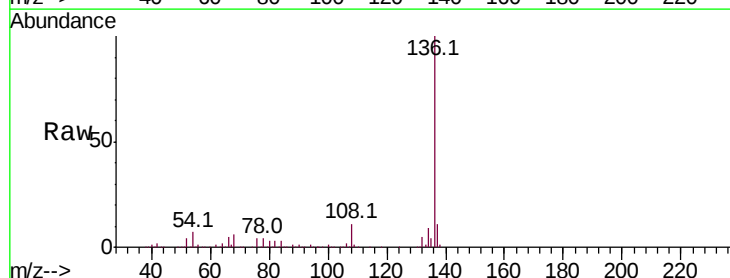
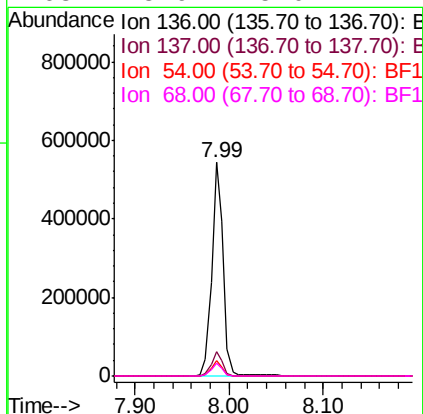
RT: 7.99 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF109407.D

Acq: 28 Sep 2018 1:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 471038 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.4  | 8.9   | 13.3   |
| 54        | 7.2   | 6.6   | 9.8    |
| 68        | 5.9   | 5.0   | 7.4    |





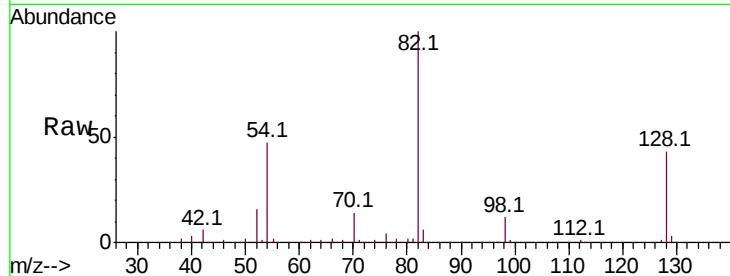
#23  
Nitrobenzene-d5  
Concen: 67.221 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

Instrument :  
BNA\_F  
ClientSampled :  
B-13(1-1.5)

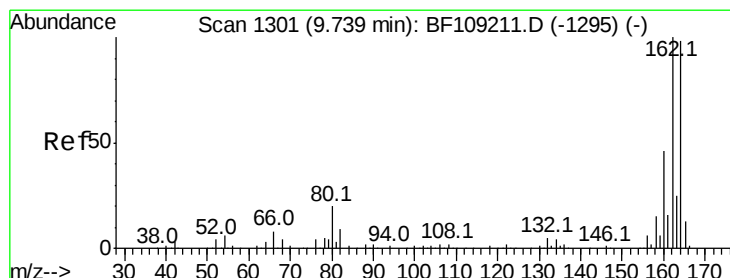
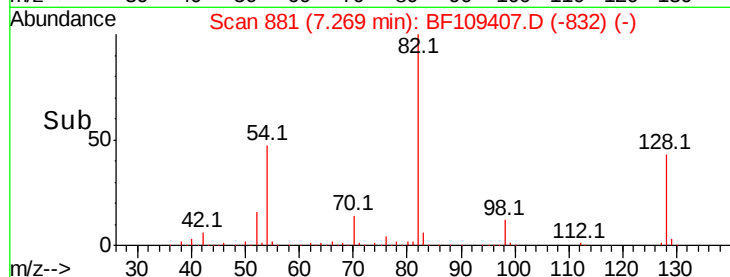
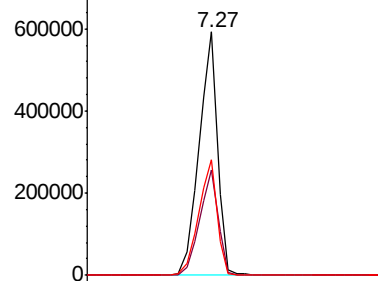
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.4  | 36.1  | 54.1  |
| 54      | 47.3  | 41.4  | 62.2  |

Manual Integrations  
APPROVED

Sohil  
9/28/2018 2:40:34 PM



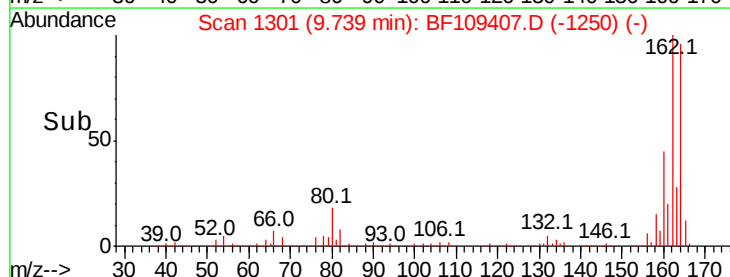
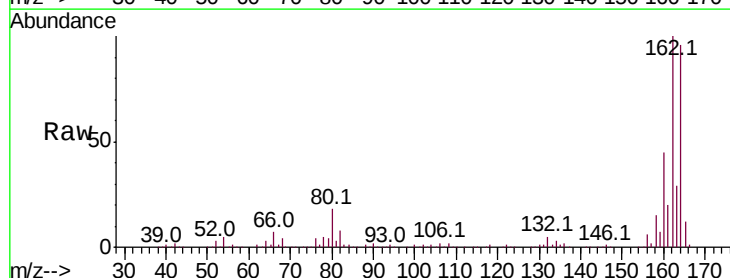
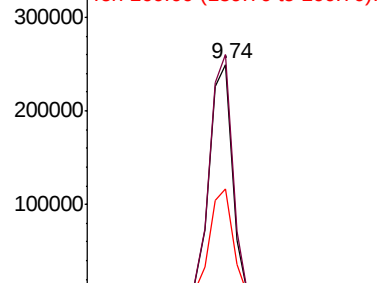
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

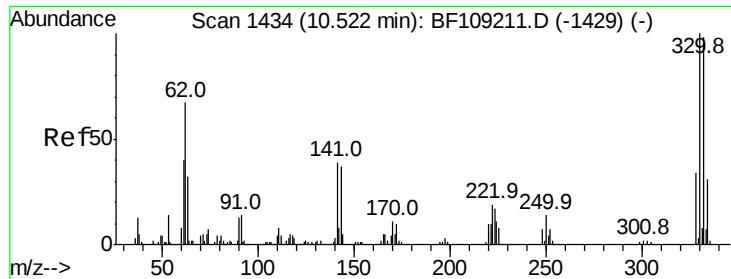


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.74 min Scan# 1301  
Delta R.T. 0.00 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.3 | 86.1  | 129.1 |
| 160     | 46.9  | 38.3  | 57.5  |

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





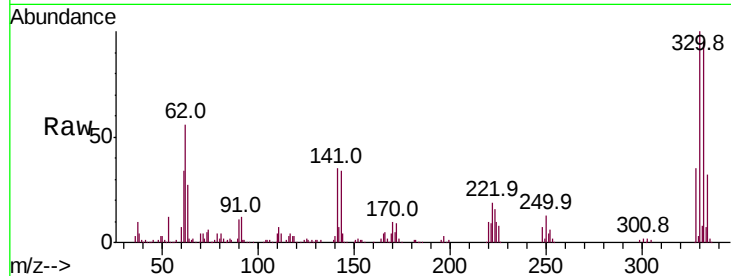
#41  
 2,4,6-Tribromophenol  
 Concen: 90.027 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

Instrument :  
 BNA\_F  
 ClientSampled :  
 B-13(1-1.5)

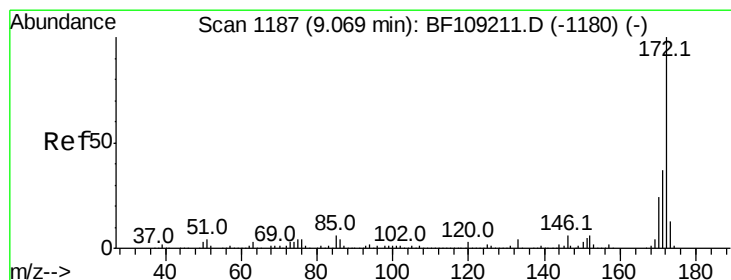
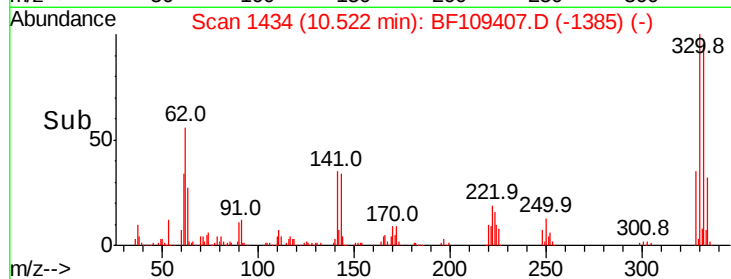
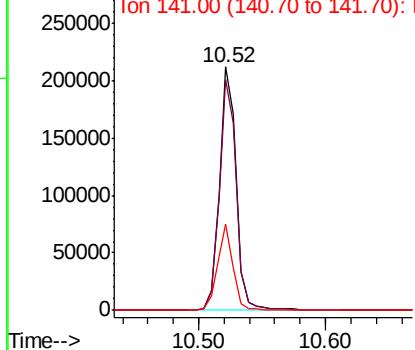
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 196744 |       |       |
| 332     | 95.9  | 77.0   | 115.6 |       |
| 141     | 33.8  | 29.9   | 44.9  |       |

Manual Integrations  
 APPROVED

Sohil  
 9/28/2018 2:40:34 PM



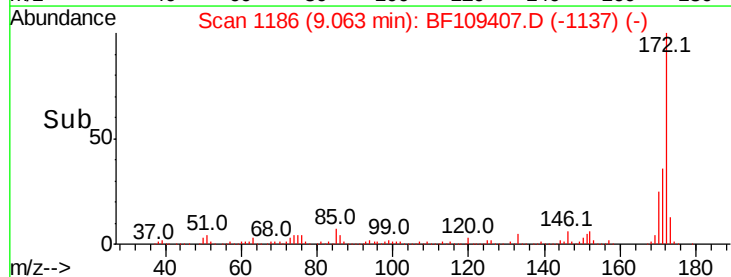
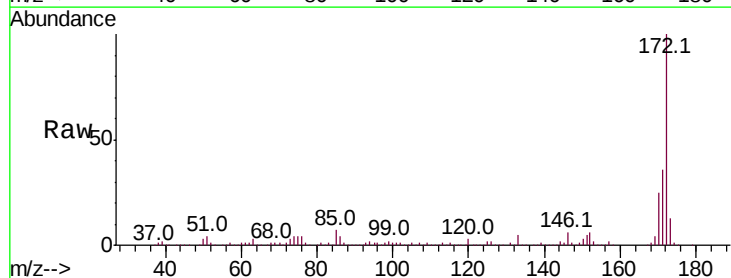
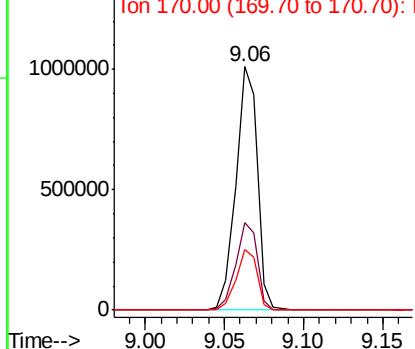
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

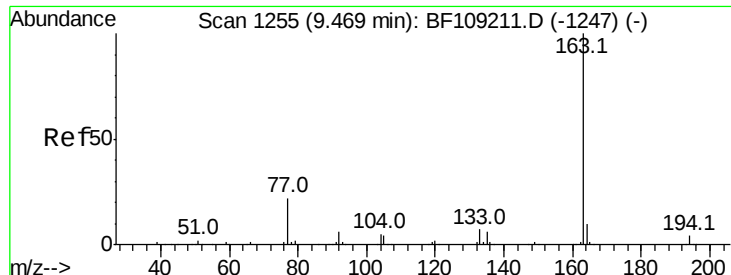


#44  
 2-Fluorobiphenyl  
 Concen: 64.773 ng  
 RT: 9.06 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 952088 |       |       |
| 171     | 36.0  | 29.7   | 44.5  |       |
| 170     | 24.6  | 19.6   | 29.4  |       |

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





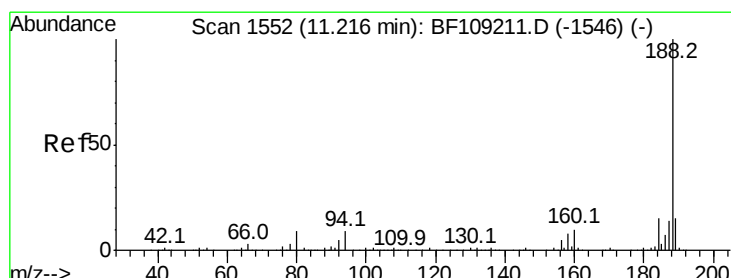
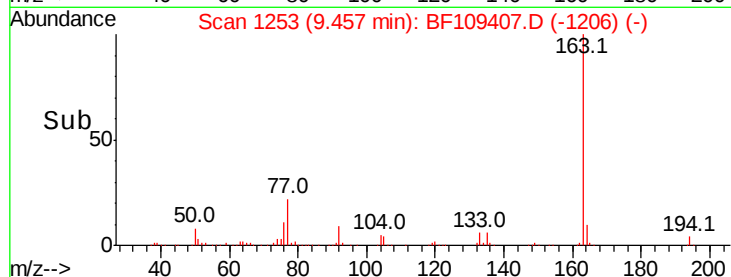
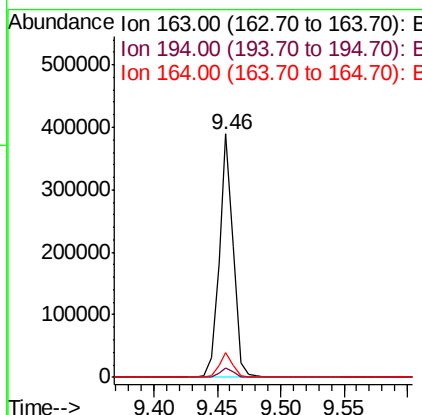
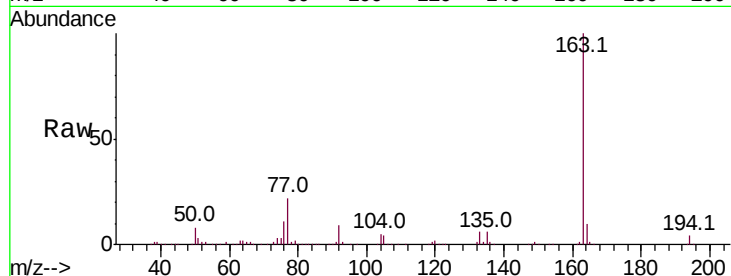
#49  
Dimethylphthalate  
Concen: 18.709 ng  
RT: 9.46 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-13(1-1.5)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.8   | 2.7  | 4.1   |       |
| 164     | 10.1  | 8.2  | 12.2  |       |

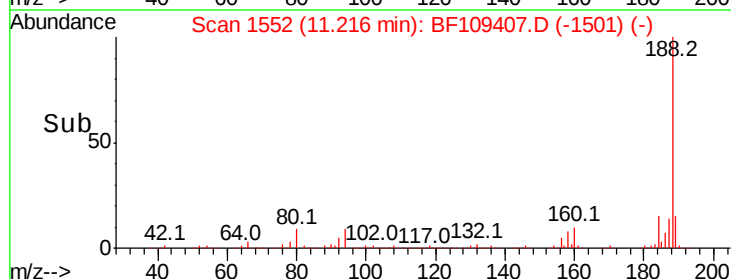
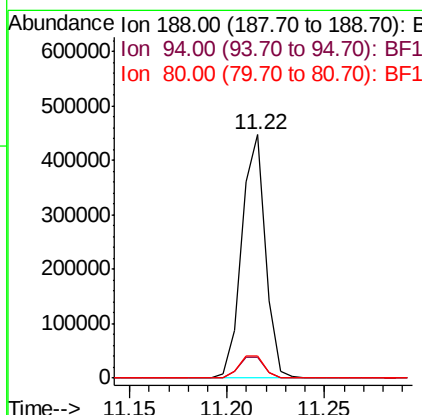
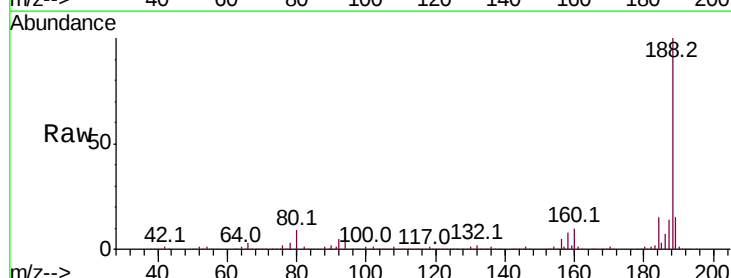
Manual Integrations  
APPROVED

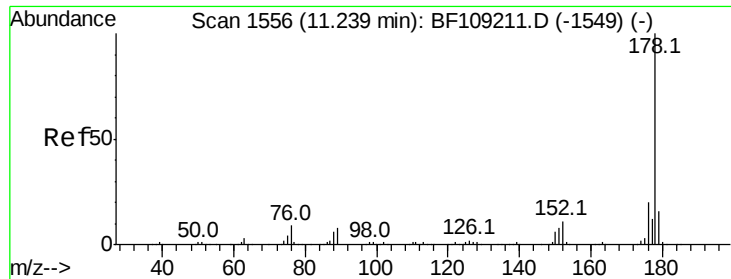
Sohil  
9/28/2018 2:40:34 PM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1552  
Delta R.T. 0.00 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 8.8   | 8.5  | 12.7  |       |
| 80      | 9.0   | 9.2  | 13.8  |       |





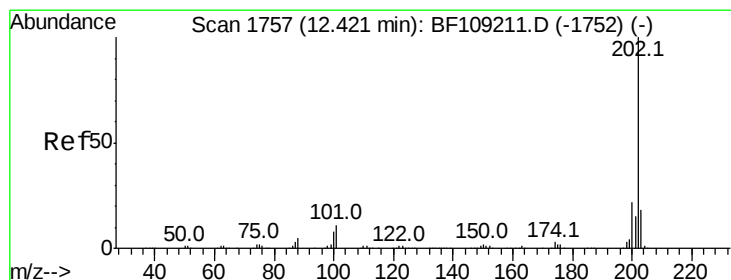
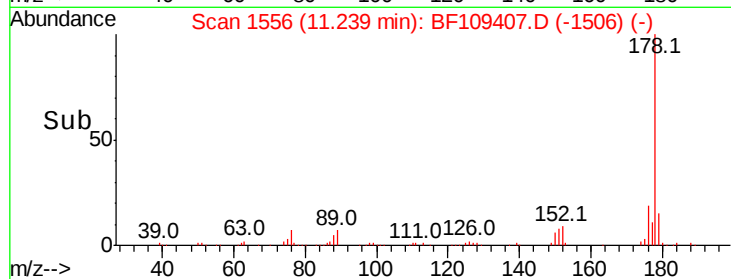
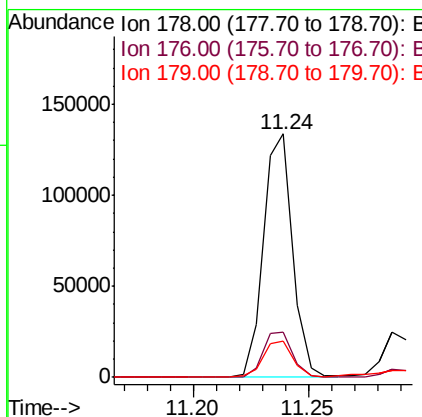
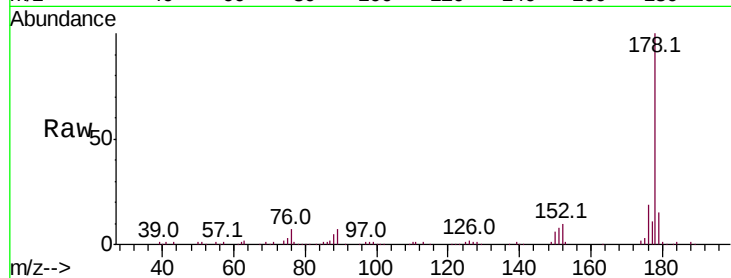
#70  
Phenanthrene  
Concen: 6.254 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-13(1-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.8  | 23.8  |
| 179     | 15.1  | 13.0  | 19.6  |

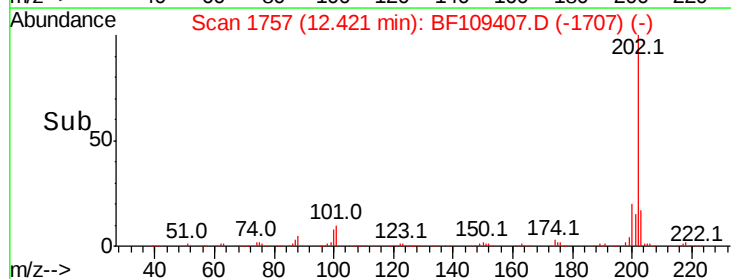
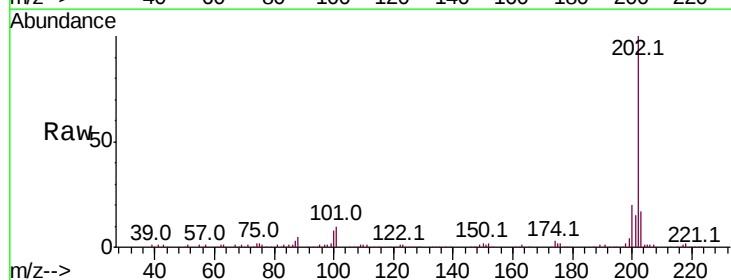
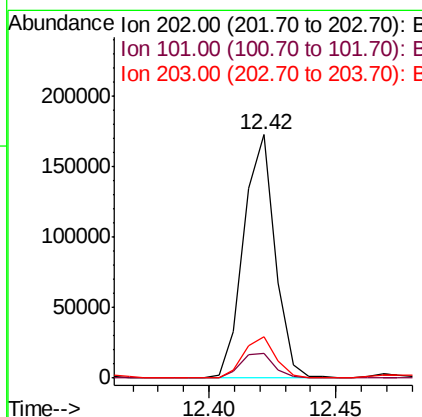
Manual Integrations  
APPROVED

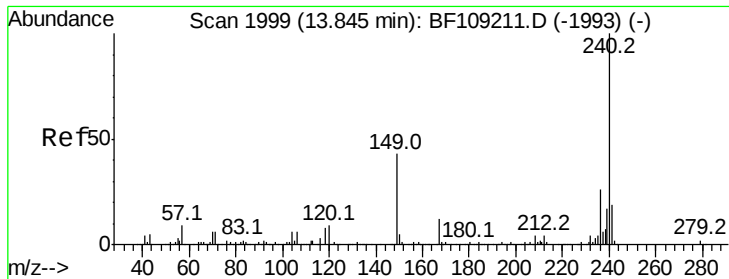
Sohil  
9/28/2018 2:40:34 PM



#74  
Fluoranthene  
Concen: 7.348 ng  
RT: 12.42 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.1  | 0.0   | 34.1  |
| 203     | 17.2  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF109407.D

Acq: 28 Sep 2018 1:45

Instrument :

BNA\_F

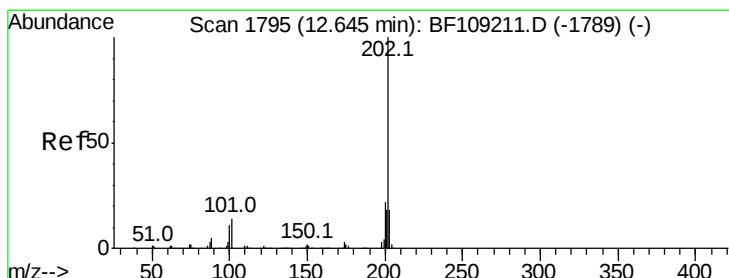
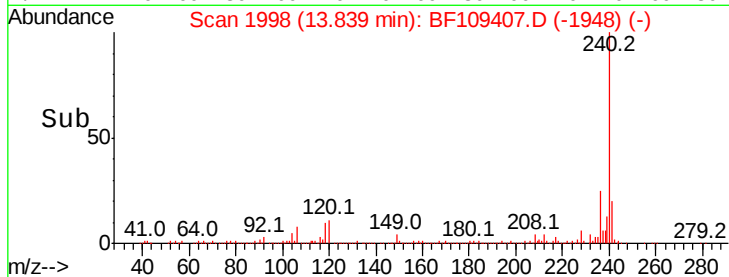
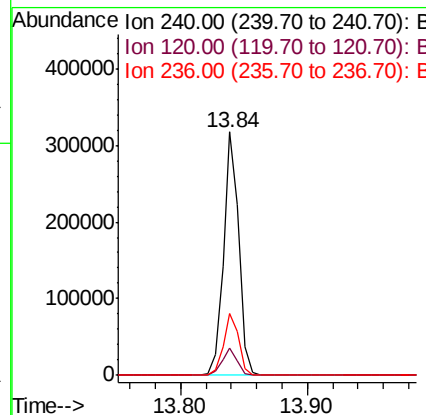
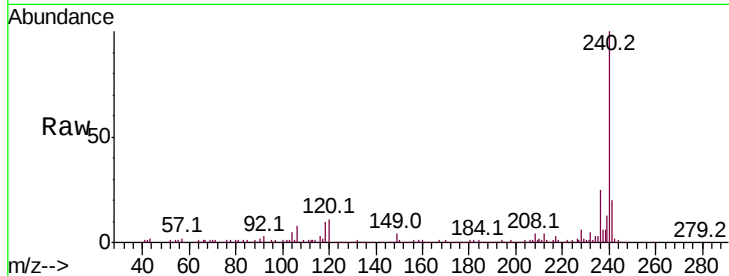
ClientSampleId :

B-13(1-1.5)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 267896 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.4  | 9.5   | 14.3   |
| 236       | 25.5  | 20.7  | 31.1   |

Manual Integrations  
APPROVED

Sohil  
9/28/2018 2:40:34 PM



#77

Pyrene

Concen: 7.857 ng

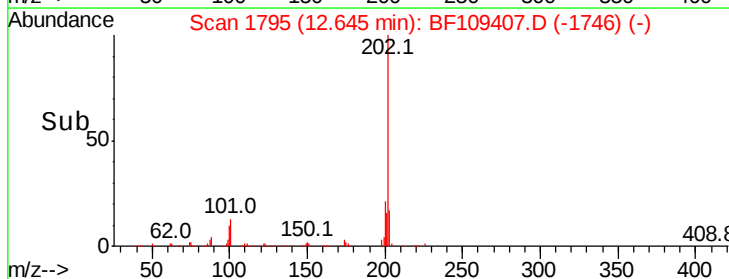
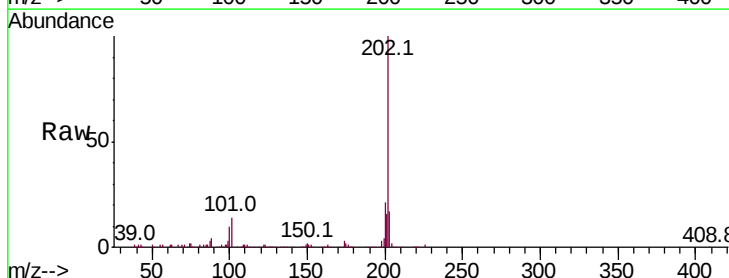
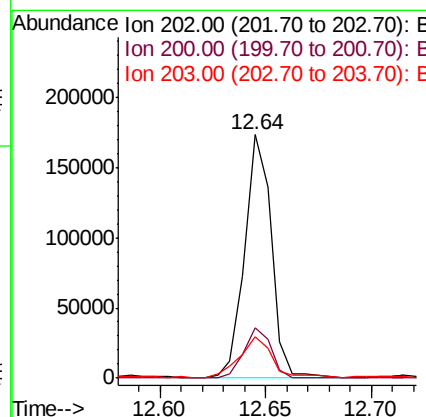
RT: 12.64 min Scan# 1795

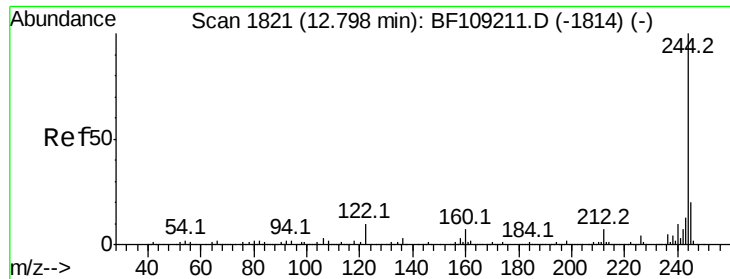
Delta R.T. -0.01 min

Lab File: BF109407.D

Acq: 28 Sep 2018 1:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 150854 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.8  | 17.4  | 26.2   |
| 203       | 17.2  | 14.3  | 21.5   |





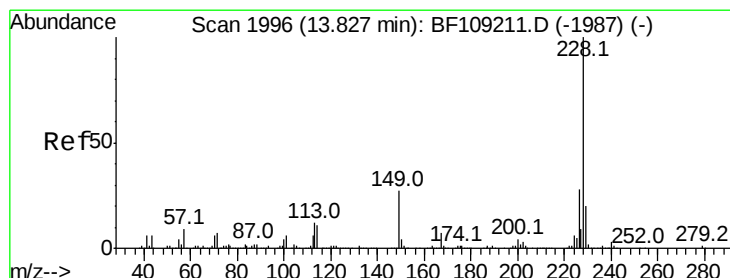
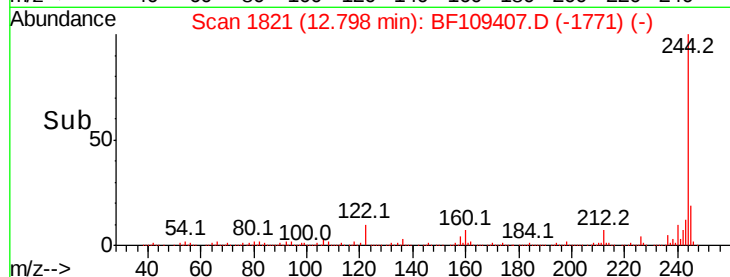
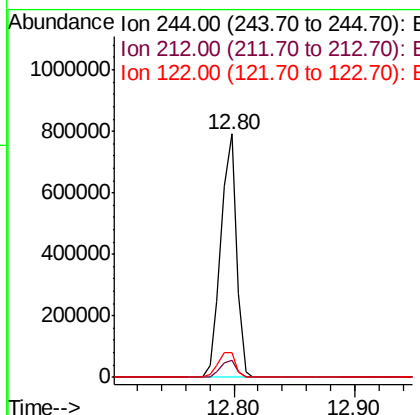
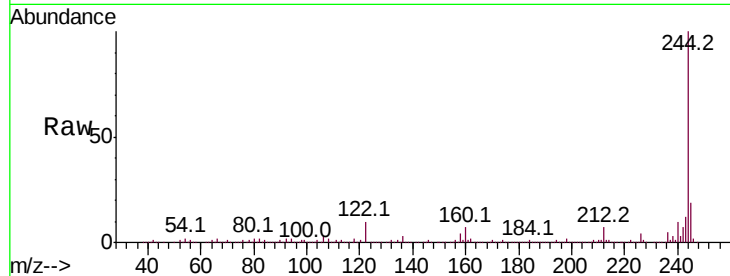
#78  
 Terphenyl-d14  
 Concen: 64.712 ng  
 RT: 12.80 min Scan# 1821  
 Delta R.T. -0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

Instrument :  
 BNA\_F  
 ClientSampled :  
 B-13(1-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 10.4  | 11.0  | 16.4  |

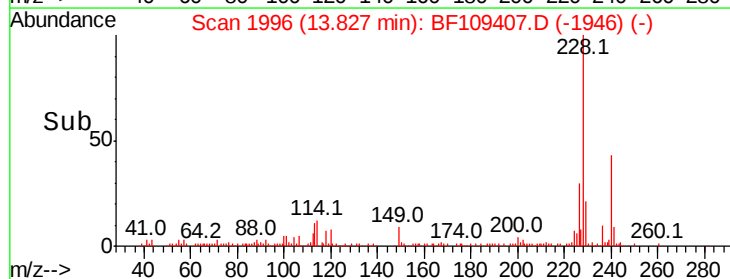
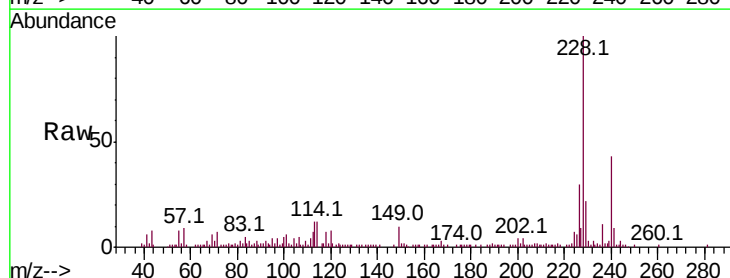
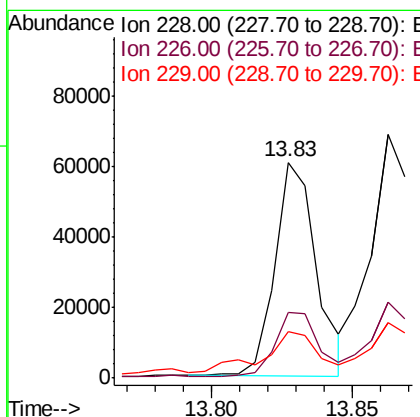
Manual Integrations  
 APPROVED

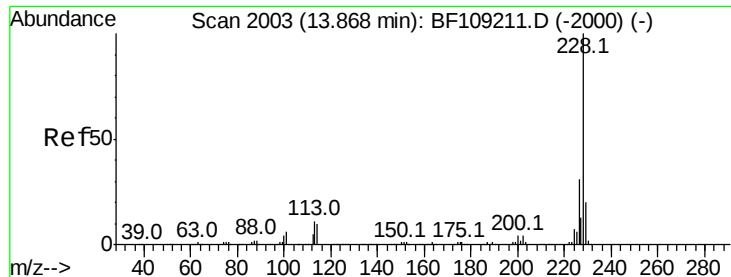
Sohil  
 9/28/2018 2:40:34 PM



#80  
 Benzo(a)anthracene  
 Concen: 3.835 ng  
 RT: 13.83 min Scan# 1996  
 Delta R.T. -0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 22.6  | 33.8  |
| 229     | 21.6  | 15.8  | 23.6  |





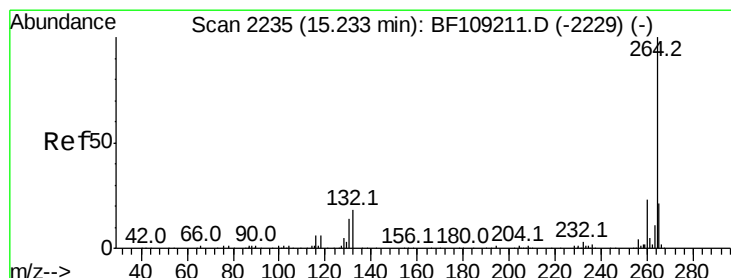
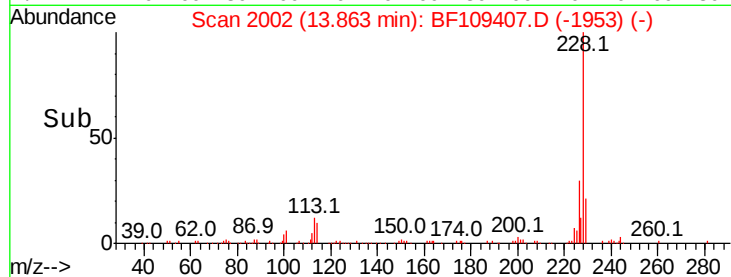
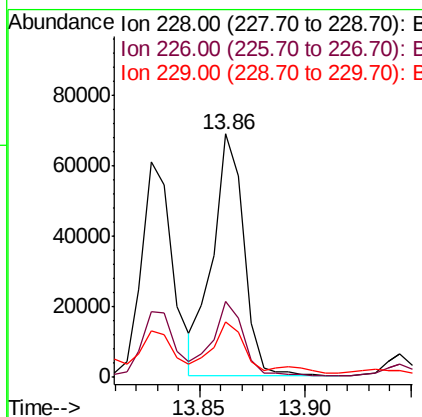
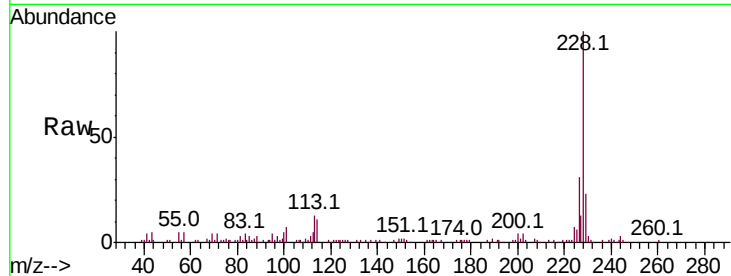
#82  
 Chrysene  
 Concen: 4.394 ng  
 RT: 13.86 min Scan# 2002  
 Delta R.T. -0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-13(1-1.5)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 70280 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.3  | 25.0  | 37.6  |
| 229       | 22.9  | 16.2  | 24.4  |

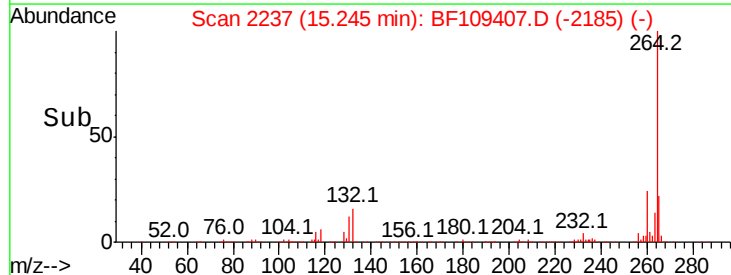
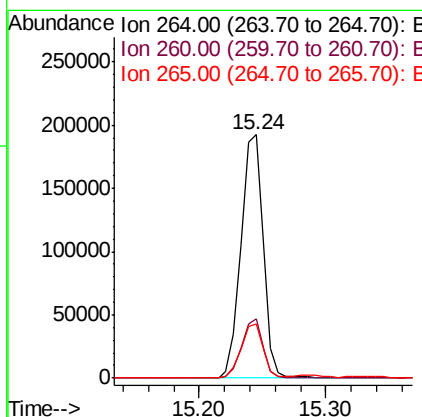
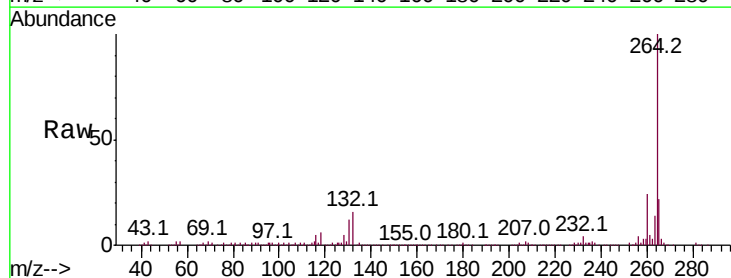
Manual Integrations  
 APPROVED

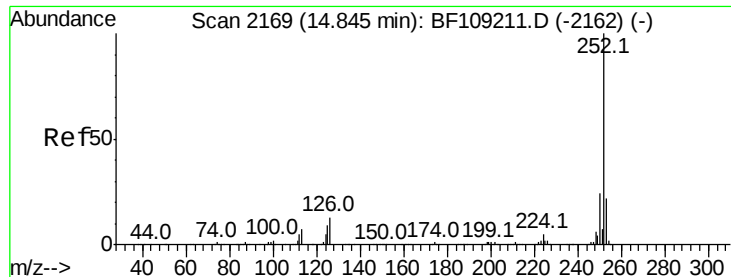
Sohil  
 9/28/2018 2:40:34 PM



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.24 min Scan# 2237  
 Delta R.T. 0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 232977 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.2  | 28.8   |
| 265       | 22.0  | 17.5  | 26.3   |





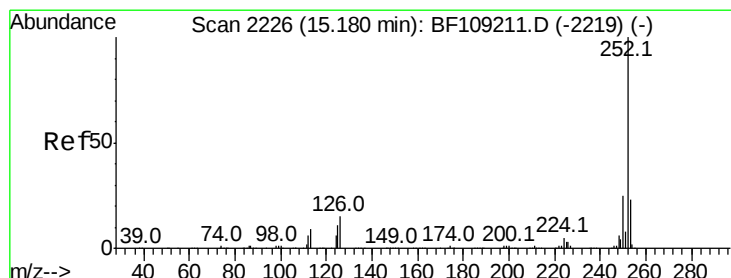
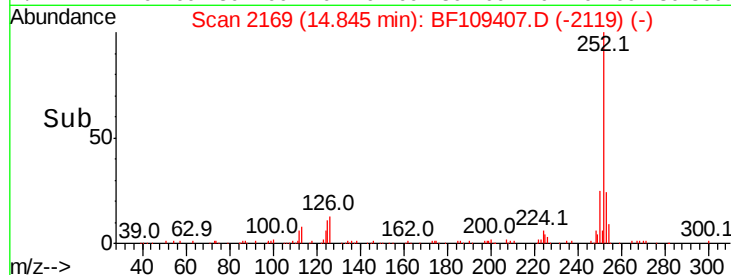
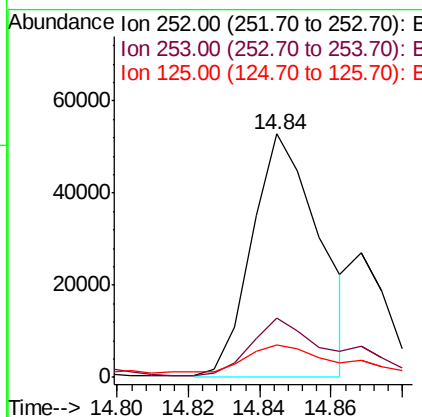
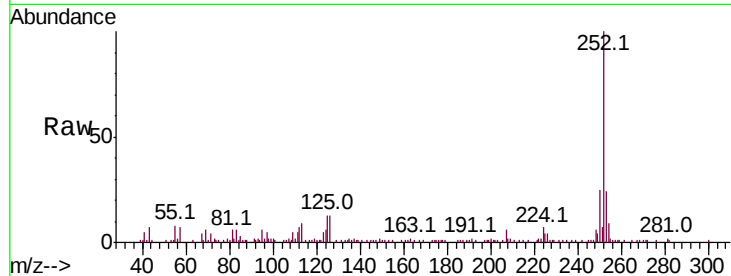
#87  
Benzo(b)fluoranthene  
Concen: 5.464 ng m  
RT: 14.84 min Scan# 2169  
Delta R.T. -0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

Instrument :  
BNA\_F  
ClientSampleId :  
B-13(1-1.5)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.0  | 25.6  |
| 125     | 13.1  | 9.0   | 13.6  |

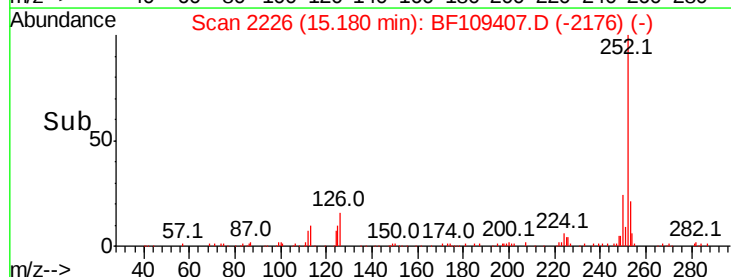
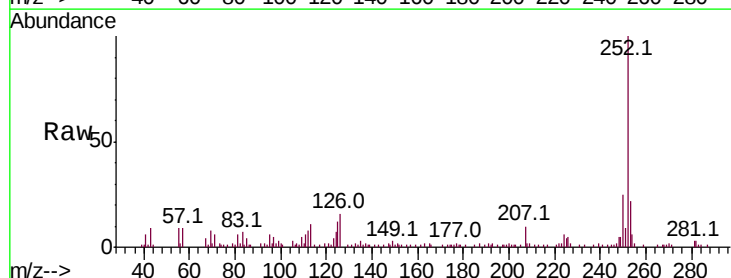
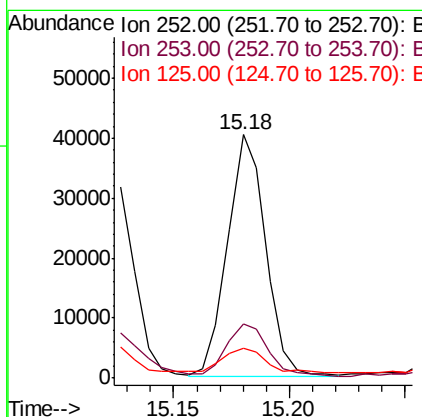
Manual Integrations  
APPROVED

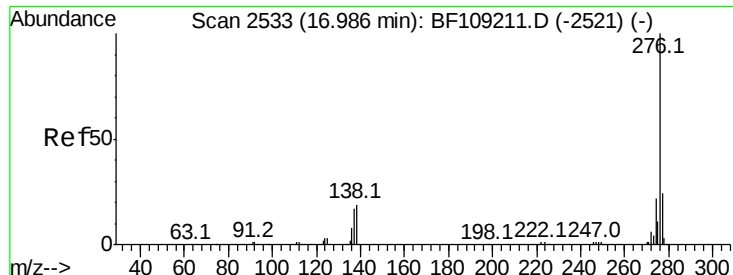
Sohil  
9/28/2018 2:40:34 PM



#89  
Benzo(a)pyrene  
Concen: 4.029 ng  
RT: 15.18 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BF109407.D  
Acq: 28 Sep 2018 1:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.1  | 25.7  |
| 125     | 12.4  | 9.8   | 14.6  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.676 ng  
 RT: 16.99 min Scan# 2534  
 Delta R.T. -0.01 min  
 Lab File: BF109407.D  
 Acq: 28 Sep 2018 1:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-13(1-1.5)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 24885 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.9  | 17.9  | 26.9  |
| 138       | 22.7  | 21.8  | 32.8  |

Manual Integrations  
 APPROVED

Sohil  
 9/28/2018 2:40:34 PM

