

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101319\  
 Data File : BP000698.D  
 Acq On : 13 Oct 2019 03:40  
 Operator : JU  
 Sample : K5348-07  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 20190831-COMPOSITE-G

Manual Integrations  
 APPROVED

mohammad  
 10/16/2019 8:08:50 AM

Quant Time: Oct 14 07:23:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 01 18:03:42 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.75  | 152  | 246535   | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8             | 8.03  | 136  | 867875   | 20.00  | ng    | -0.02     |
| 39) Acenaphthene-d10           | 9.80  | 164  | 466417   | 20.00  | ng    | -0.02     |
| 64) Phenanthrene-d10           | 11.29 | 188  | 818473   | 20.00  | ng    | -0.02     |
| 76) Chrysene-d12               | 13.97 | 240  | 647103   | 20.00  | ng    | -0.01     |
| 87) Perylene-d12               | 15.45 | 264  | 747274   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.38  | 112  | 438978   | 28.62  | ng    | -0.02     |
| 7) Phenol-d6                   | 6.39  | 99   | 1570721  | 84.99  | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.31  | 82   | 974265   | 68.56  | ng    | -0.02     |
| 42) 2,4,6-Tribromophenol       | 10.59 | 330  | 47345    | 9.53   | ng    | -0.02     |
| 45) 2-Fluorobiphenyl           | 9.12  | 172  | 1690799  | 58.65  | ng    | -0.02     |
| 79) Terphenyl-d14              | 12.90 | 244  | 1745262  | 54.61  | ng    | -0.02     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.29  | 77   | 38870    | 4.038  | ng    | Qvalue 98 |
| 10) Phenol                     | 6.40  | 94   | 94412    | 4.989  | ng    | 92        |
| 50) Dimethylphthalate          | 9.51  | 163  | 384490   | 11.864 | ng    | 99        |
| 71) Phenanthrene               | 11.32 | 178  | 118431   | 2.881  | ng    | 99        |
| 75) Fluoranthene               | 12.52 | 202  | 379795   | 8.227  | ng    | 99        |
| 78) Pyrene                     | 12.75 | 202  | 392385   | 8.792  | ng    | 99        |
| 81) Benzo(a)anthracene         | 13.96 | 228  | 213707   | 5.413  | ng    | # 80      |
| 83) Chrysene                   | 13.99 | 228  | 217970   | 5.625  | ng    | 98        |
| 84) Bis(2-ethylhexyl)phthalate | 13.96 | 149  | 161687   | 6.610  | ng    | 99        |
| 86) Indeno(1,2,3-cd)pyrene     | 16.91 | 276  | 147654   | 3.050  | ng    | 96        |
| 88) Benzo(b)fluoranthene       | 15.02 | 252  | 320721m  | 7.565  | ng    |           |
| 89) Benzo(k)fluoranthene       | 15.04 | 252  | 97629m   | 2.419  | ng    |           |
| 90) Benzo(a)pyrene             | 15.38 | 252  | 254473   | 6.439  | ng    | # 93      |
| 92) Benzo(a,h,i)perylene       | 17.35 | 276  | 149590   | 3.841  | ng    | 98        |

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

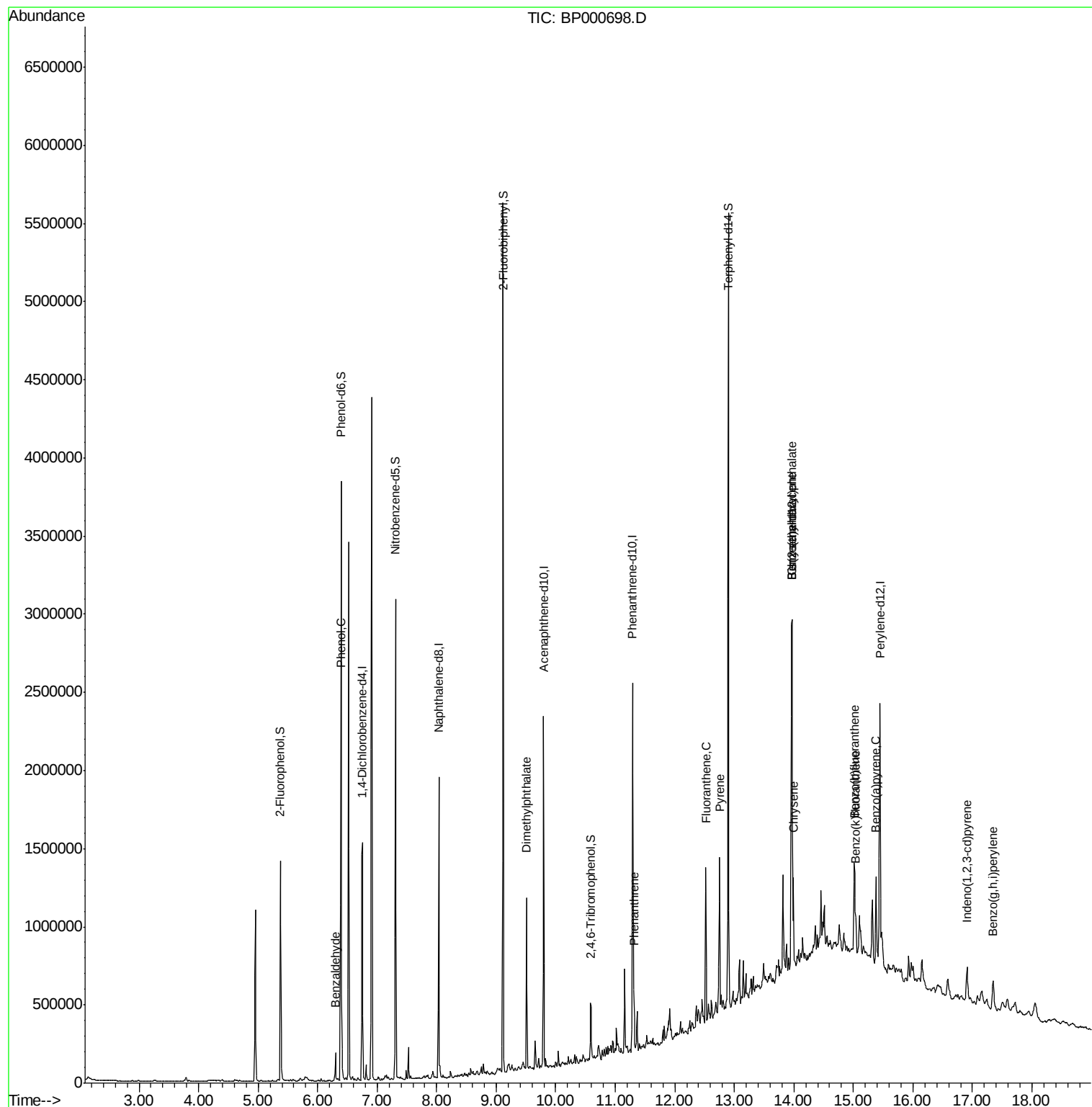
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101319\  
Data File : BP000698.D  
Acq On : 13 Oct 2019 03:40  
Operator : JU  
Sample : K5348-07  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

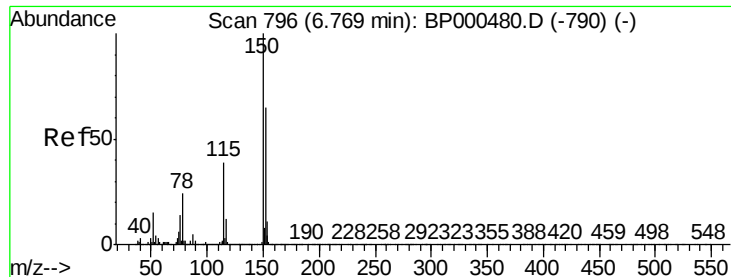
Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

Manual Integrations  
APPROVED

mohammad  
10/16/2019 8:08:50 AM

Quant Time: Oct 14 07:23:47 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 01 18:03:42 2019  
Response via : Initial Calibration





#1

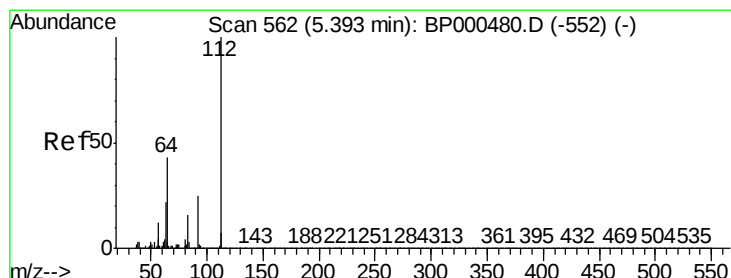
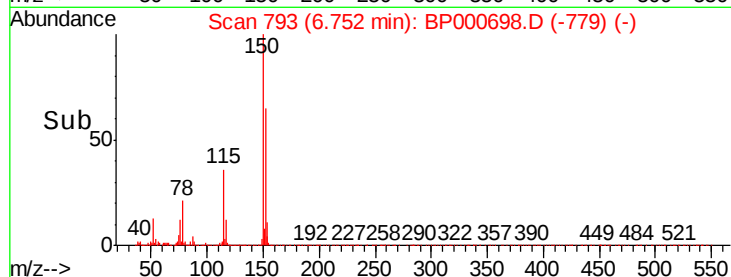
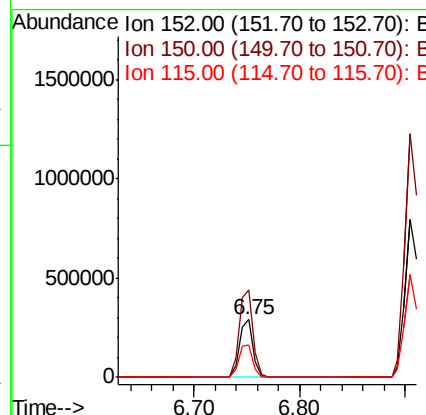
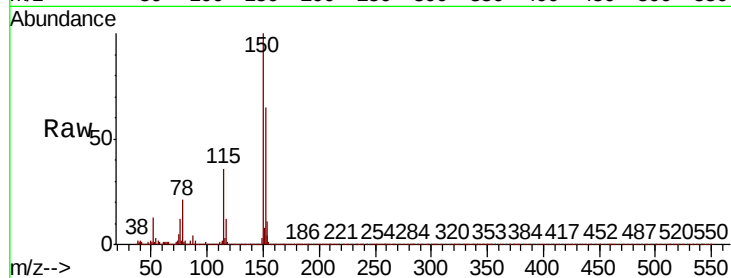
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.75 min Scan# 793  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.8 | 124.1 | 186.1 |
| 115     | 55.7  | 48.7  | 73.1  |

Manual Integrations  
APPROVED

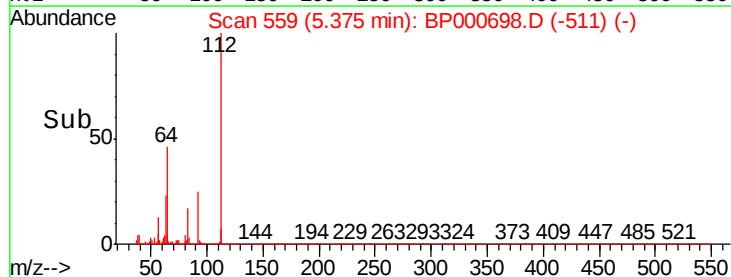
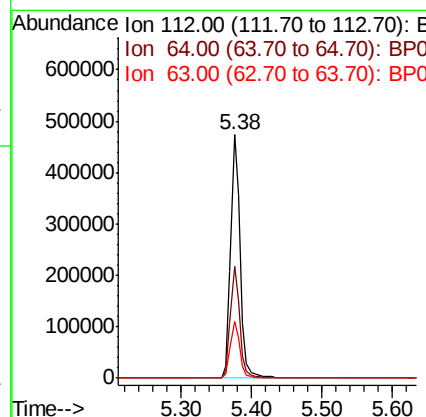
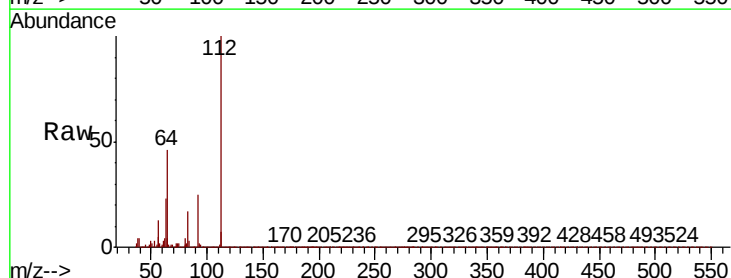
mohammad  
10/16/2019 8:08:50 AM

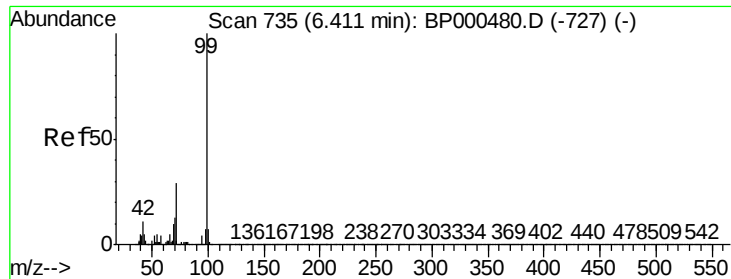


#5

2-Fluorophenol  
Concen: 28.622 ng  
RT: 5.38 min Scan# 559  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 46.1  | 34.2  | 51.4  |
| 63      | 23.5  | 17.9  | 26.9  |





#7

Phenol-d6

Concen: 84.987 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BP000698.D

Acq: 13 Oct 2019 03:40

Instrument :

BNA\_P

ClientSampleId :

20190831-COMPOSITE-G

Tot Ion: 99 Resp: 1570721

Ion Ratio Lower Upper

99 100

42 10.9 8.6 12.8

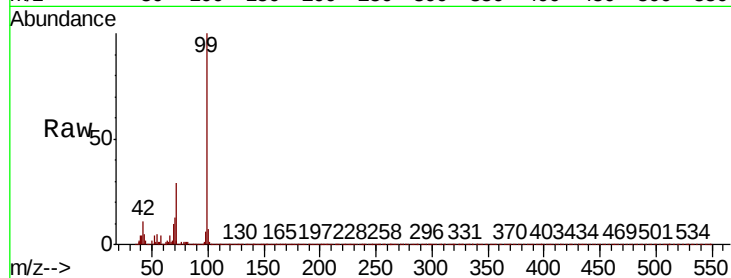
71 29.4 23.0 34.4

Manual Integrations

APPROVED

mohammad

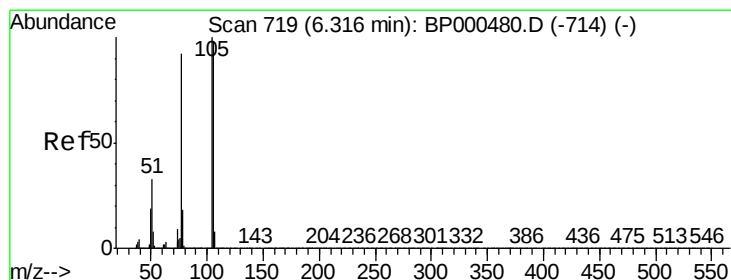
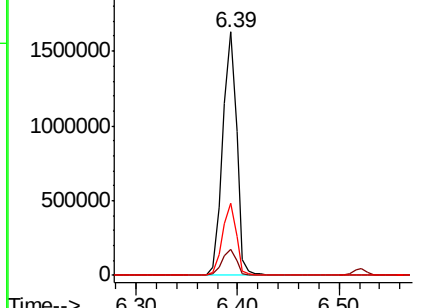
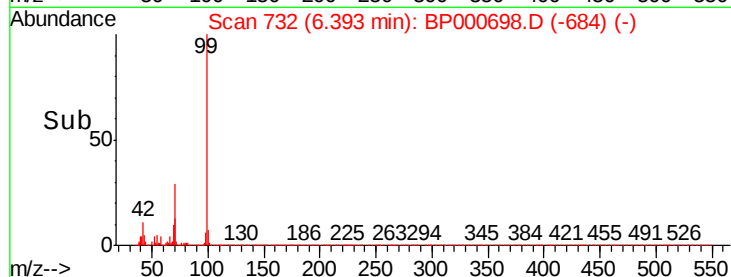
10/16/2019 8:08:50 AM



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#9

Benzaldehyde

Concen: 4.038 ng

RT: 6.29 min Scan# 715

Delta R.T. -0.02 min

Lab File: BP000698.D

Acq: 13 Oct 2019 03:40

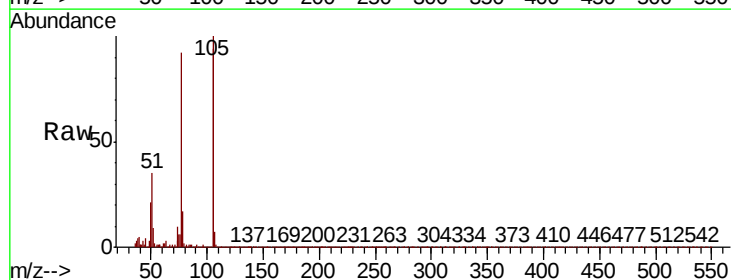
Tgt Ion: 77 Resp: 38870

Ion Ratio Lower Upper

77 100

105 108.7 88.3 128.3

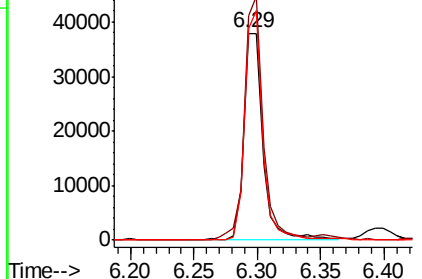
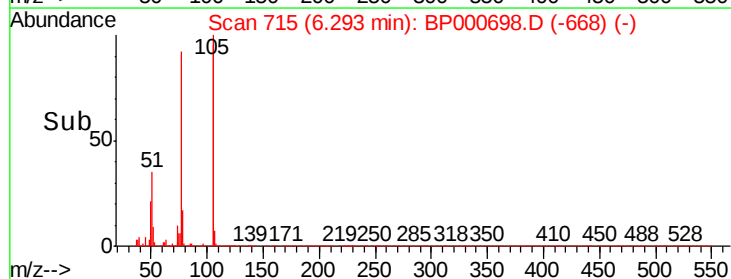
106 102.4 85.7 125.7

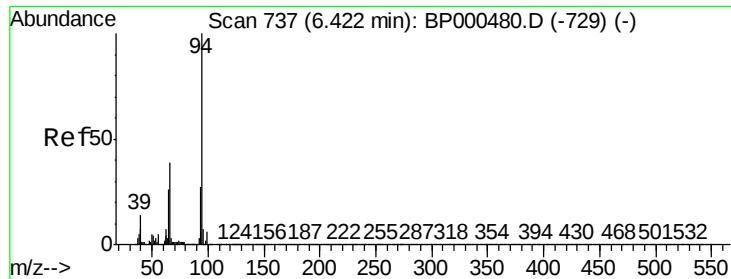


Abundance Ion 77.00 (76.70 to 77.70): BP0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





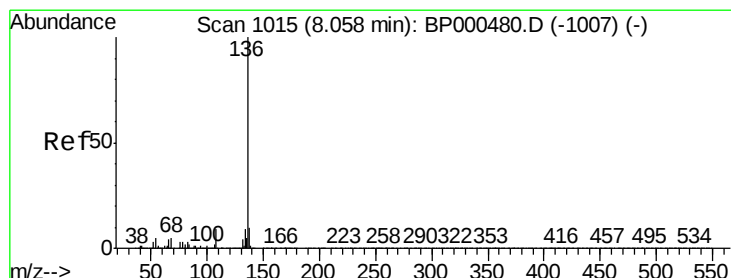
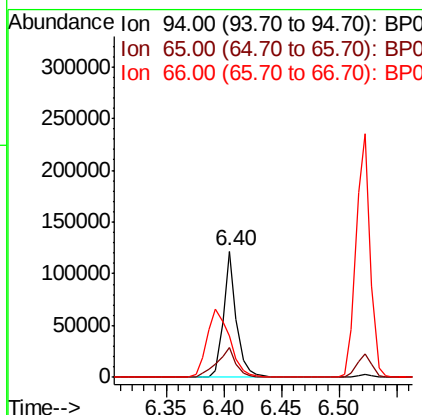
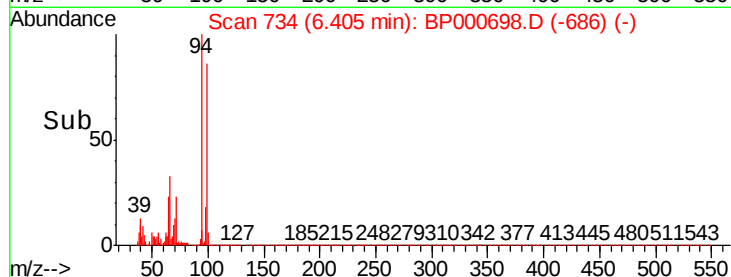
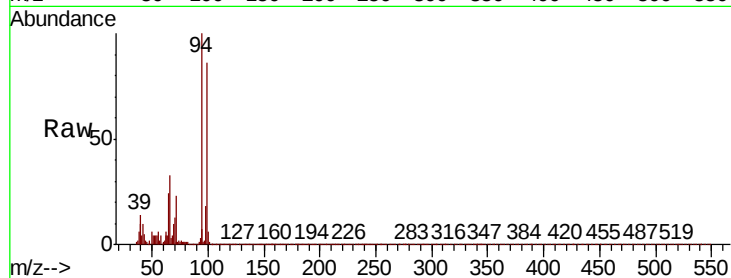
#10  
Phenol  
Concen: 4.989 ng  
RT: 6.40 min Scan# 734  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 94      | 100  |       |      |       |       |
| 65      | 23.5 | 5.9   | 45.9 |       |       |
| 66      | 32.8 | 18.8  | 58.8 |       |       |

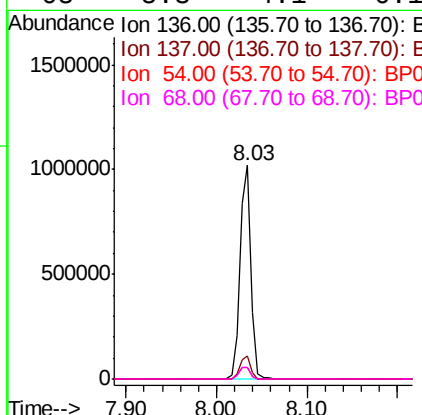
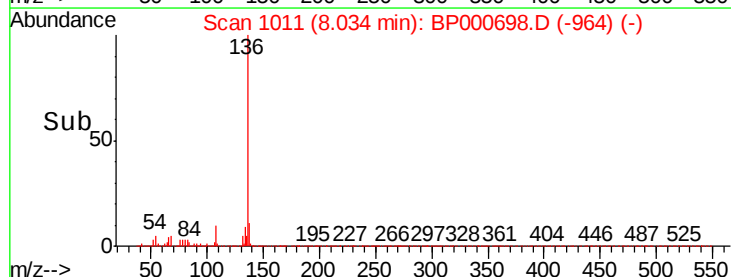
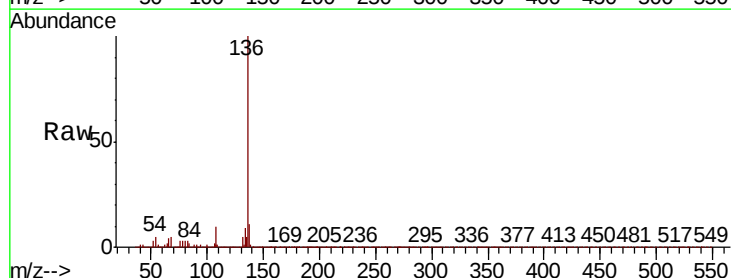
Manual Integrations  
APPROVED

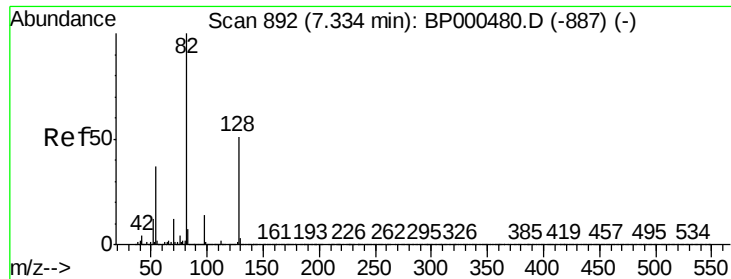
mohammad  
10/16/2019 8:08:50 AM



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.03 min Scan# 1011  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 136     | 100  |       |      |       |       |
| 137     | 10.8 | 8.2   | 12.4 |       |       |
| 54      | 5.2  | 4.1   | 6.1  |       |       |
| 68      | 5.3  | 4.1   | 6.1  |       |       |





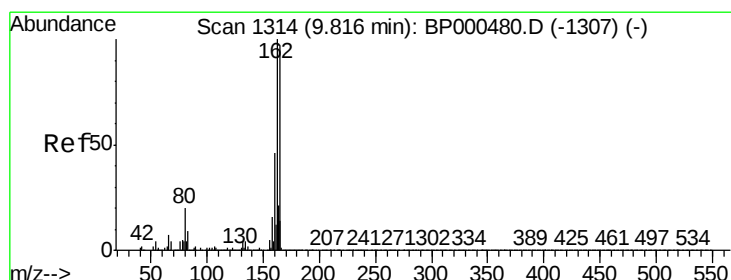
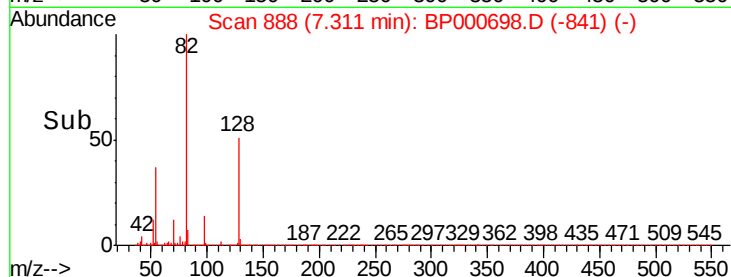
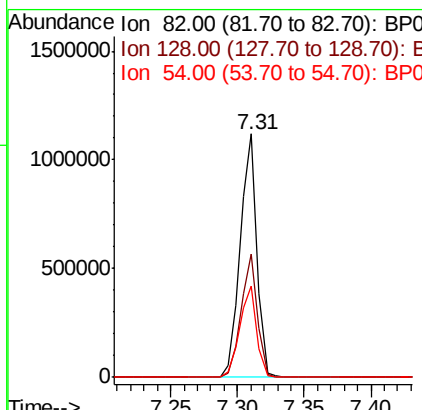
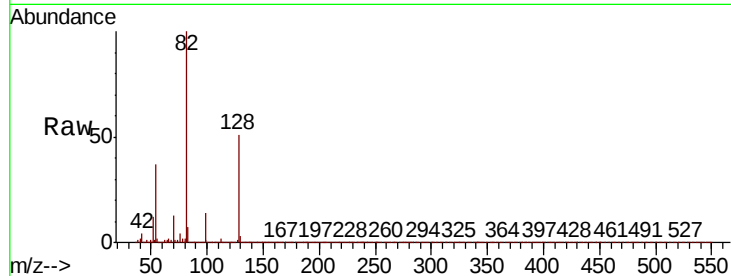
#23  
Nitrobenzene-d5  
Concen: 68.562 ng  
RT: 7.31 min Scan# 888  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 50.6  | 40.9  | 61.3  |
| 54      | 37.3  | 29.4  | 44.2  |

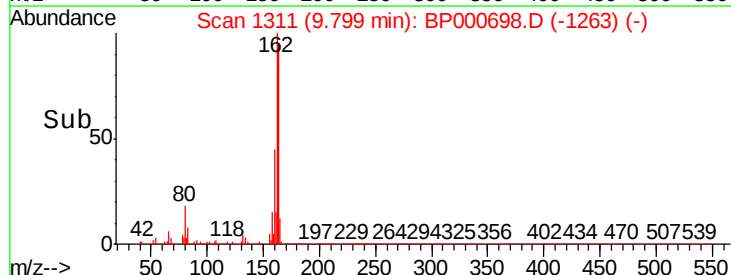
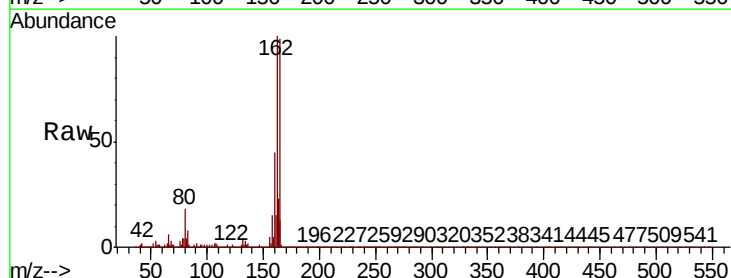
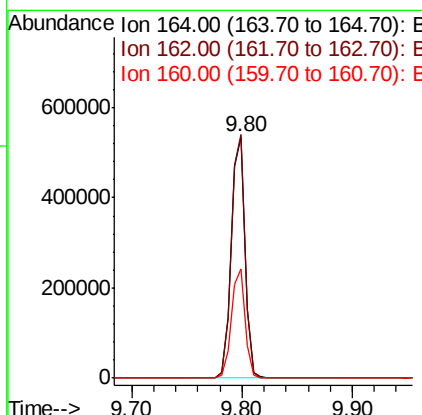
Manual Integrations  
APPROVED

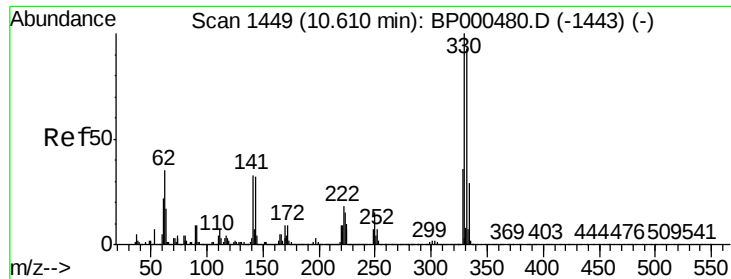
mohammad  
10/16/2019 8:08:50 AM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.80 min Scan# 1311  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 82.2  | 123.2 |
| 160     | 45.0  | 37.6  | 56.4  |





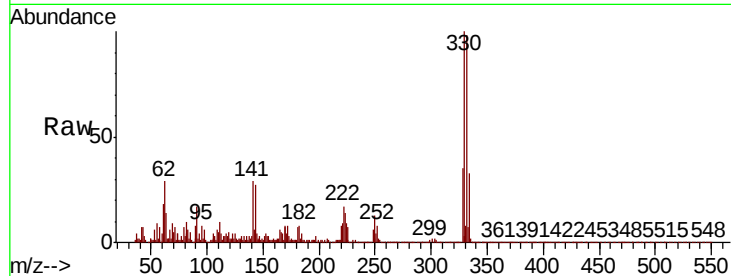
#42  
2,4,6-Tribromophenol  
Concen: 9.526 ng  
RT: 10.59 min Scan# 1446  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 77.1  | 115.7 |
| 141     | 30.8  | 26.0  | 39.0  |

Manual Integrations  
APPROVED

mohammad  
10/16/2019 8:08:50 AM

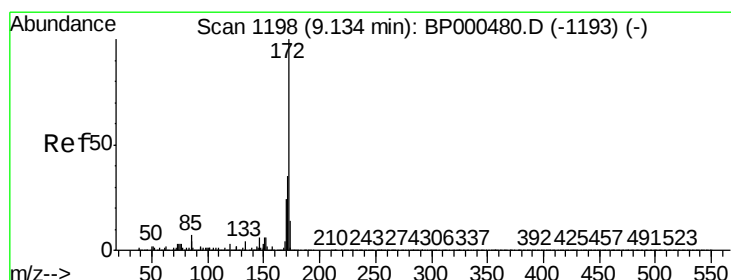
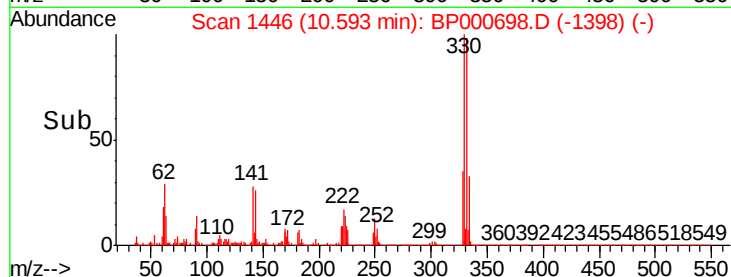
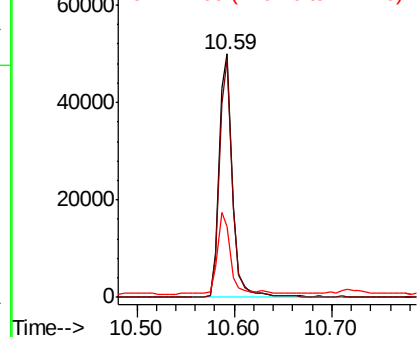


Abundance

Ion 329.80 (329.50 to 330.50): E

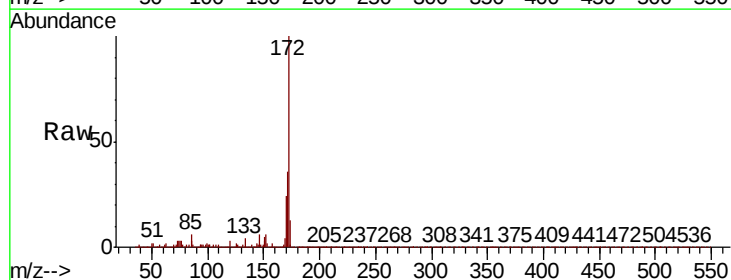
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
2-Fluorobiphenyl  
Concen: 58.654 ng  
RT: 9.12 min Scan# 1195  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 28.4  | 42.6  |
| 170     | 24.1  | 19.1  | 28.7  |

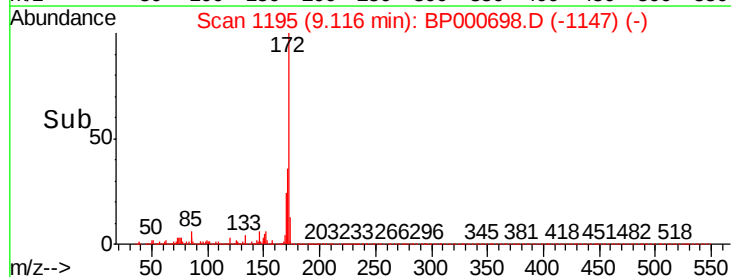
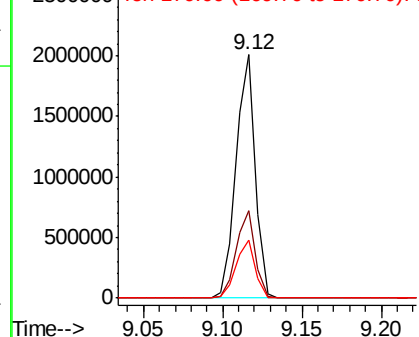


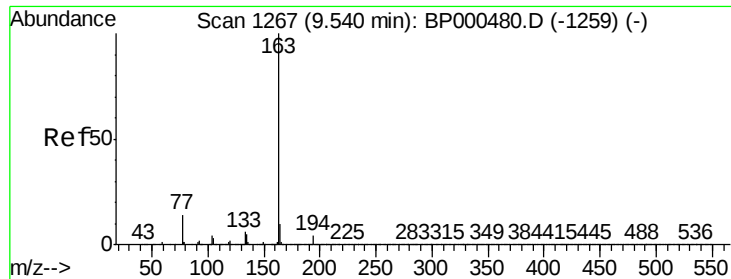
Abundance

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





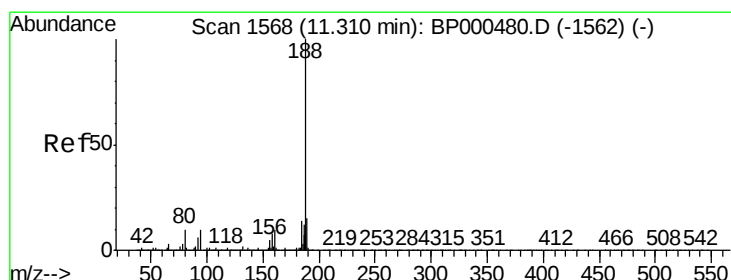
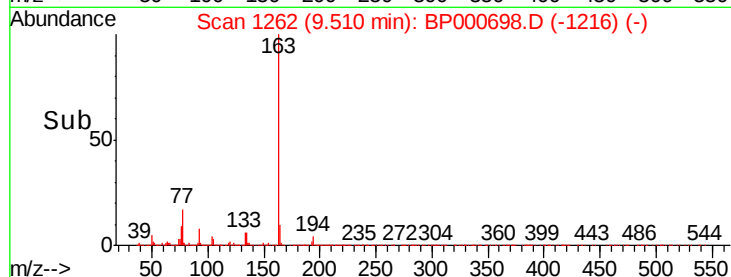
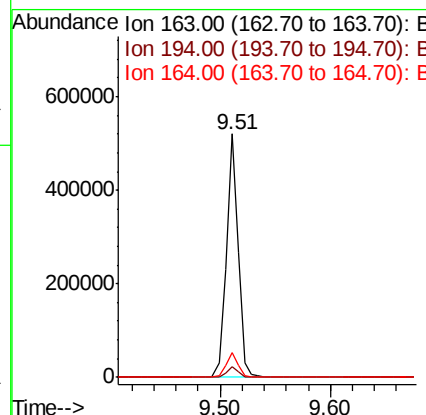
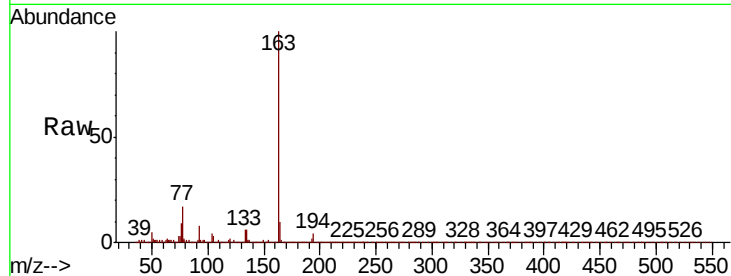
#50  
Dimethylphthalate  
Concen: 11.864 ng  
RT: 9.51 min Scan# 1262  
Delta R.T. -0.03 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.5   | 3.4   | 5.2   |
| 164     | 10.3  | 8.0   | 12.0  |

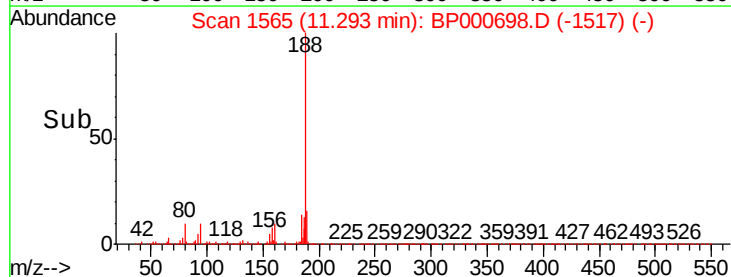
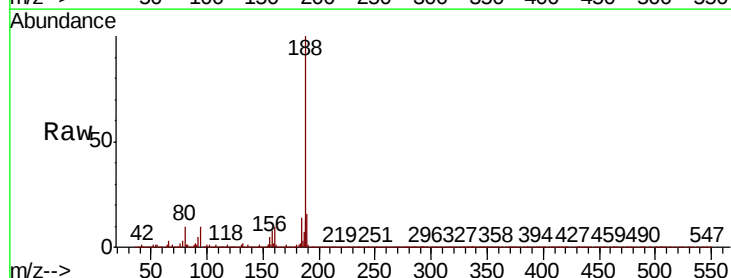
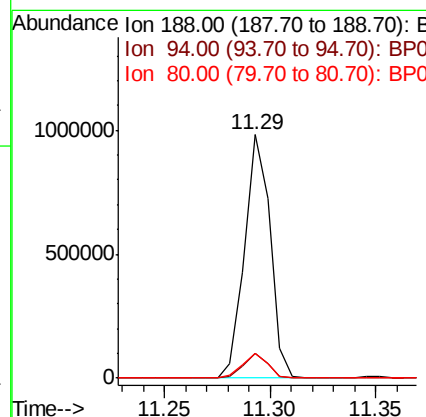
Manual Integrations  
APPROVED

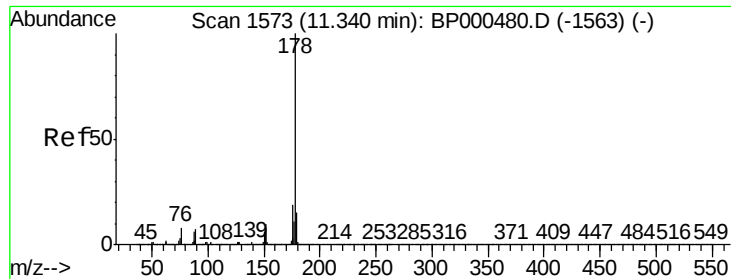
mohammad  
10/16/2019 8:08:50 AM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.29 min Scan# 1565  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 8.2   | 12.2  |
| 80      | 10.3  | 8.3   | 12.5  |





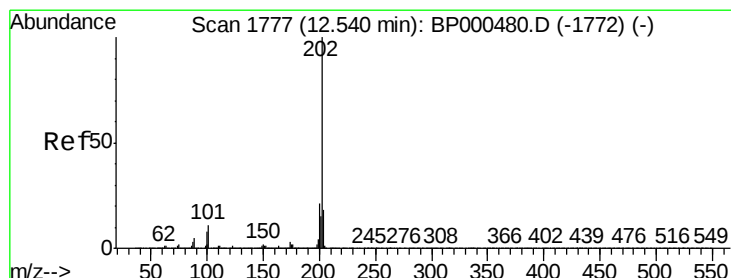
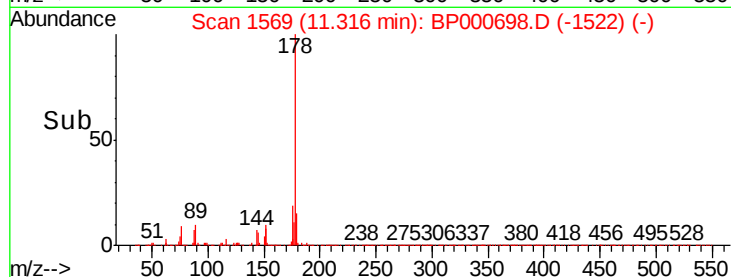
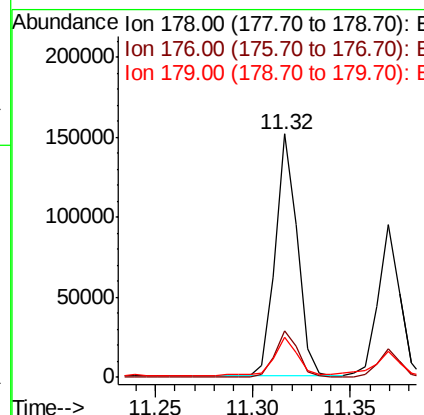
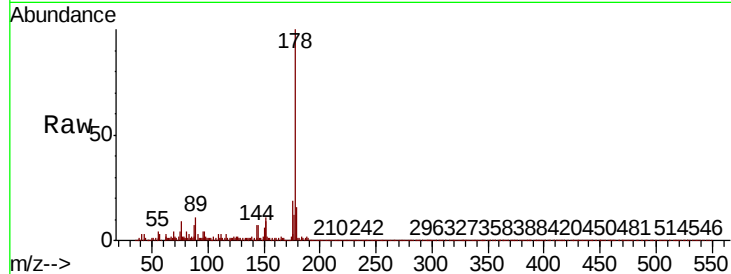
#71  
Phenanthrene  
Concen: 2.881 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 118431    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.1  | 15.4 23.2 |
| 179         | 16.2  | 12.2 18.4 |

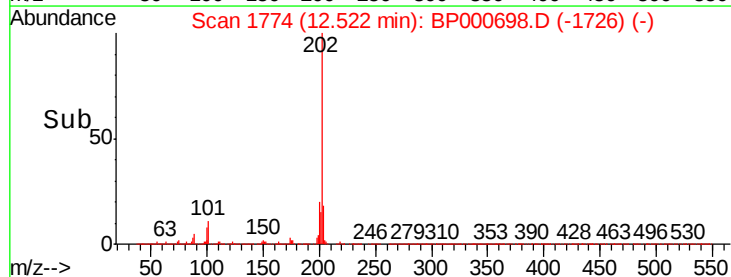
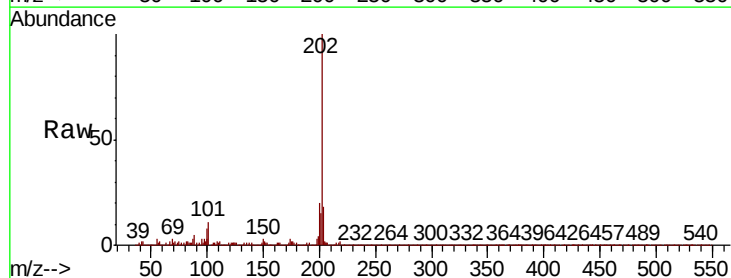
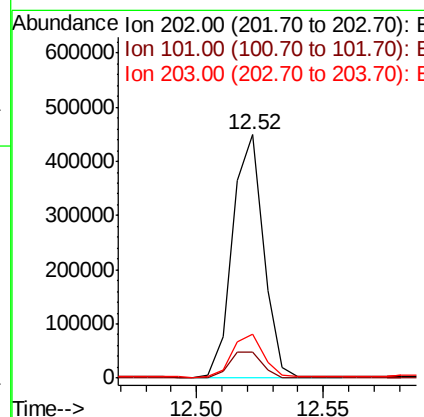
Manual Integrations  
APPROVED

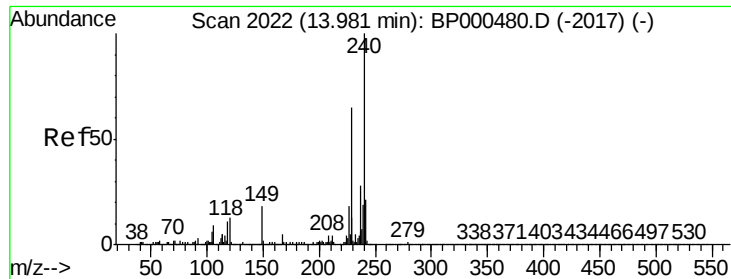
mohammad  
10/16/2019 8:08:50 AM



#75  
Fluoranthene  
Concen: 8.227 ng  
RT: 12.52 min Scan# 1774  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 379795   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 10.8  | 0.0 31.3 |
| 203         | 17.9  | 0.0 38.1 |





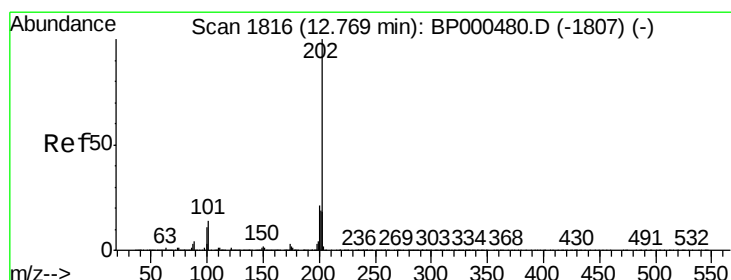
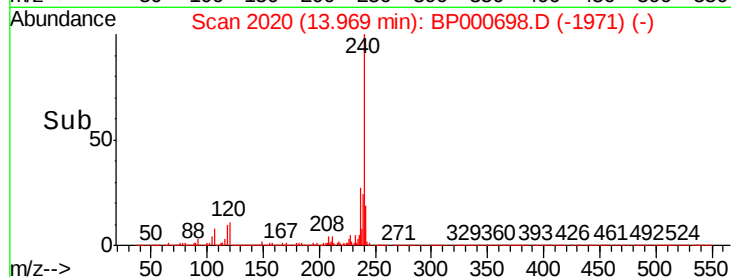
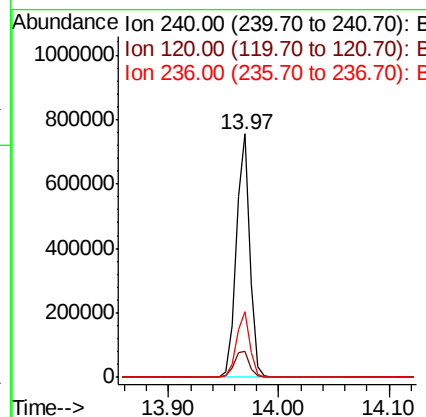
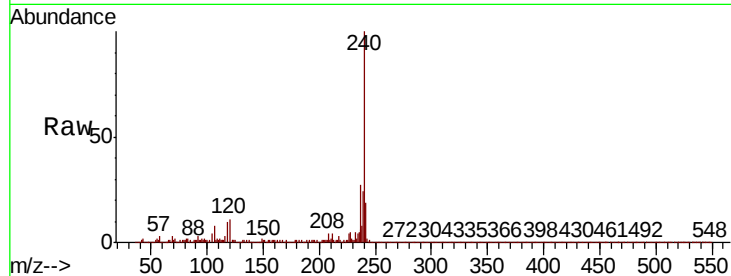
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.9  | 10.1  | 15.1  |
| 236     | 26.8  | 22.7  | 34.1  |

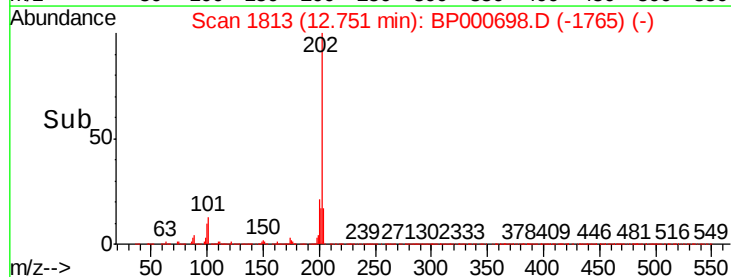
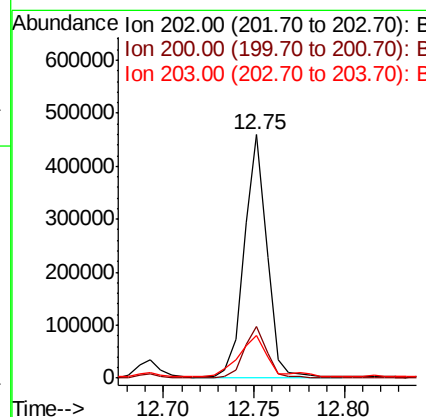
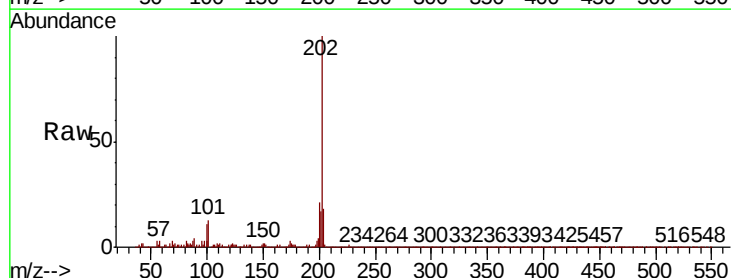
Manual Integrations  
APPROVED

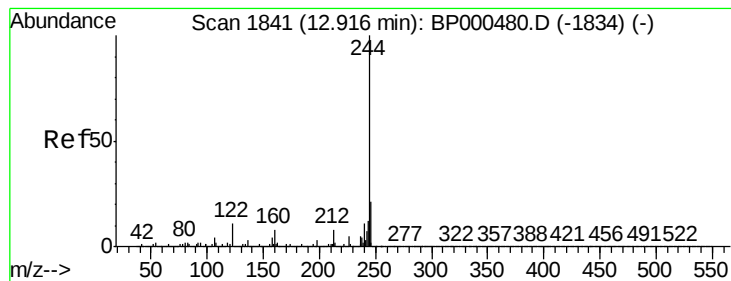
mohammad  
10/16/2019 8:08:50 AM



#78  
Pyrene  
Concen: 8.792 ng  
RT: 12.75 min Scan# 1813  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.1  | 25.7  |
| 203     | 17.7  | 14.6  | 21.8  |





#79

Terphenyl-d14

Concen: 54.608 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.02 min

Lab File: BP000698.D

Acq: 13 Oct 2019 03:40

Instrument :

BNA\_P

ClientSampleId :

20190831-COMPOSITE-G

Tot Ion:244 Resp: 1745262

Ion Ratio Lower Upper

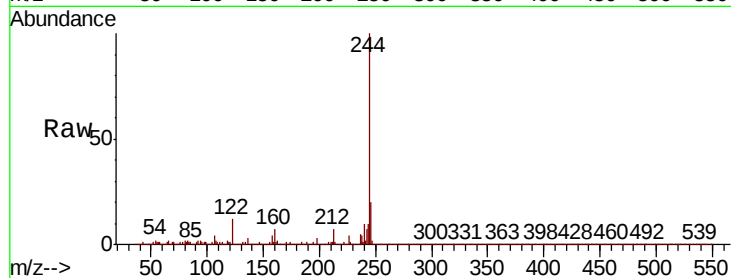
244 100

212 7.4 6.0 9.0

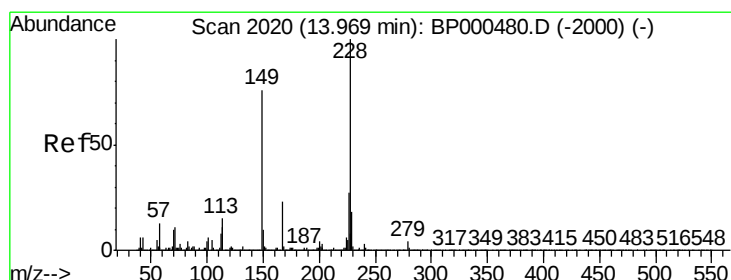
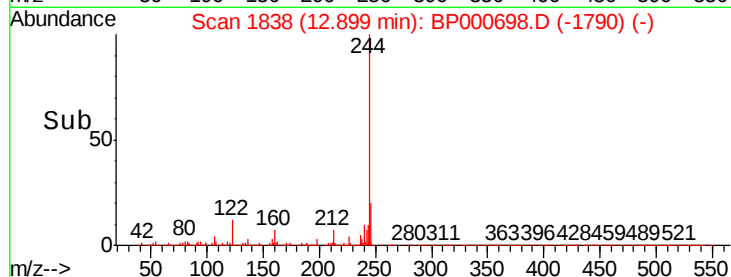
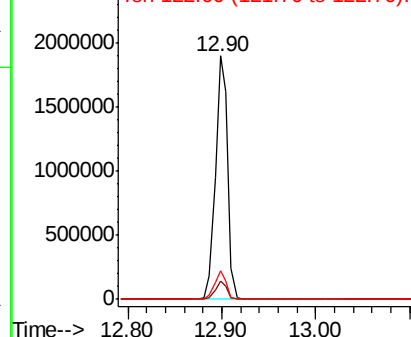
122 11.9 8.9 13.3

Manual Integrations  
APPROVED

mohammad  
10/16/2019 8:08:50 AM



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 5.413 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BP000698.D

Acq: 13 Oct 2019 03:40

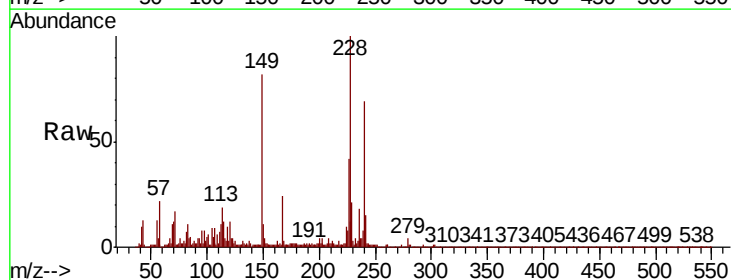
Tgt Ion:228 Resp: 213707

Ion Ratio Lower Upper

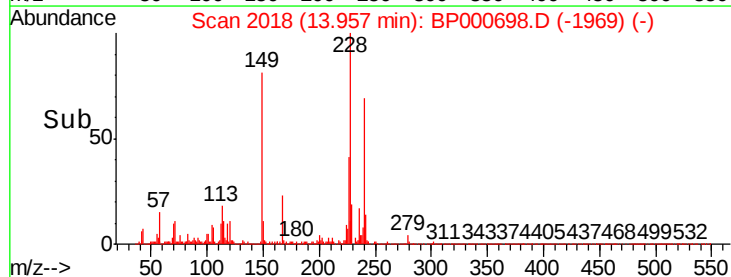
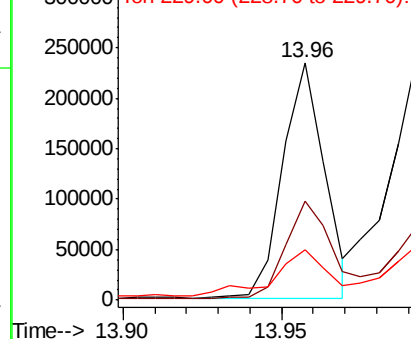
228 100

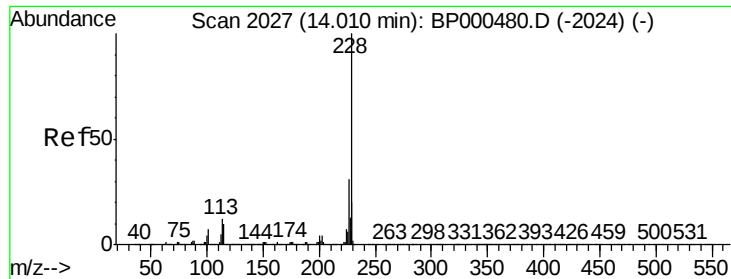
226 41.8 21.4 32.2#

229 21.2 14.7 22.1



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





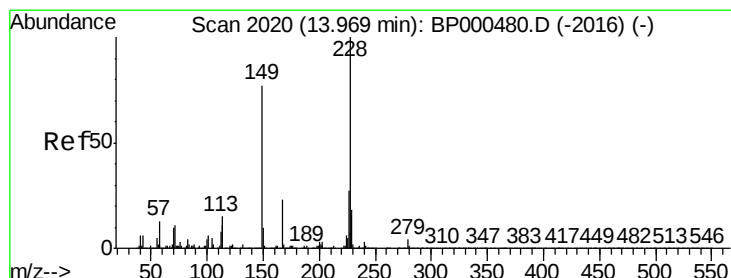
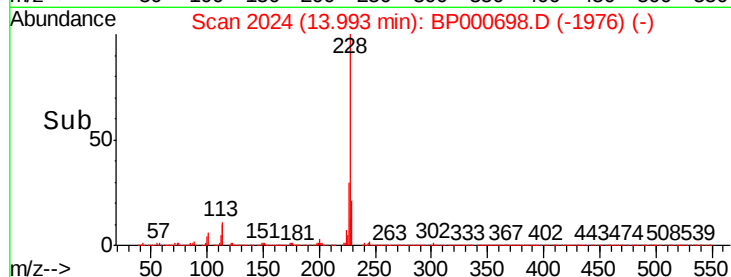
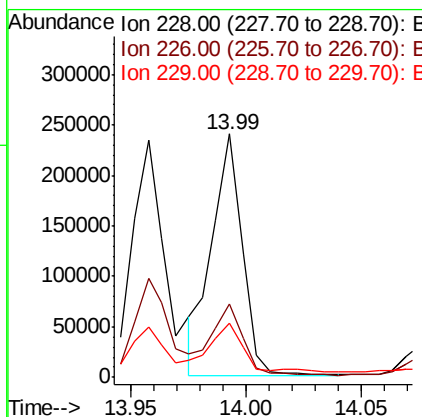
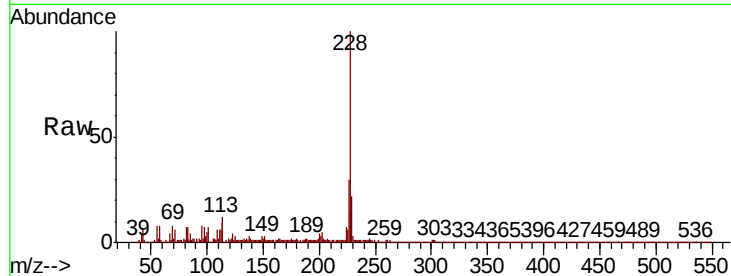
#83  
 Chrysene  
 Concen: 5.625 ng  
 RT: 13.99 min Scan# 2024  
 Delta R.T. -0.02 min  
 Lab File: BP000698.D  
 Acq: 13 Oct 2019 03:40

Instrument :  
 BNA\_P  
 ClientSampleId :  
 20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 24.7  | 37.1  |
| 229     | 22.2  | 16.3  | 24.5  |

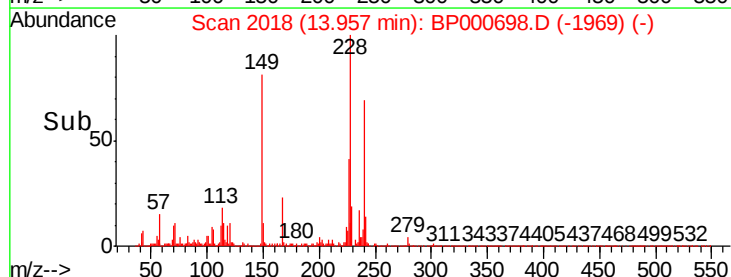
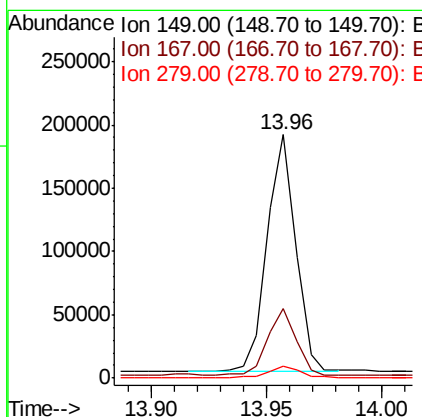
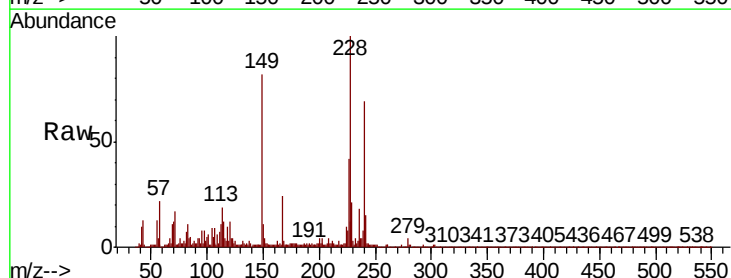
Manual Integrations  
 APPROVED

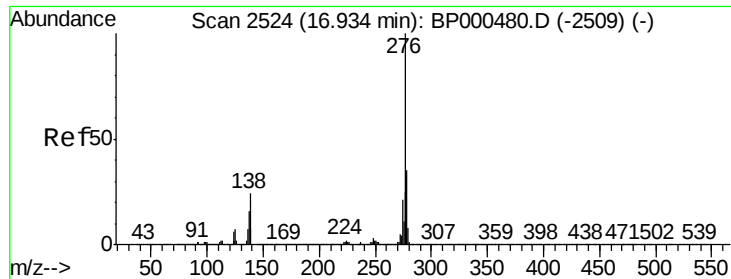
mohammad  
 10/16/2019 8:08:50 AM



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 6.610 ng  
 RT: 13.96 min Scan# 2018  
 Delta R.T. -0.01 min  
 Lab File: BP000698.D  
 Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.8  | 23.6  | 35.4  |
| 279     | 5.0   | 3.9   | 5.9   |





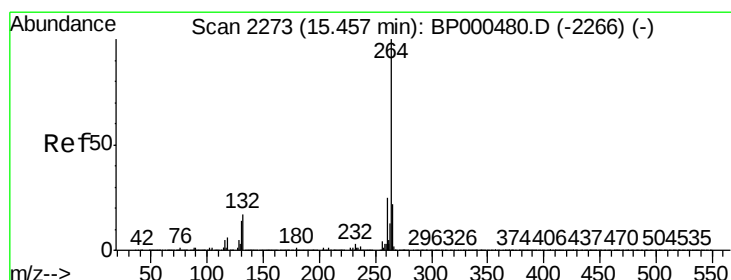
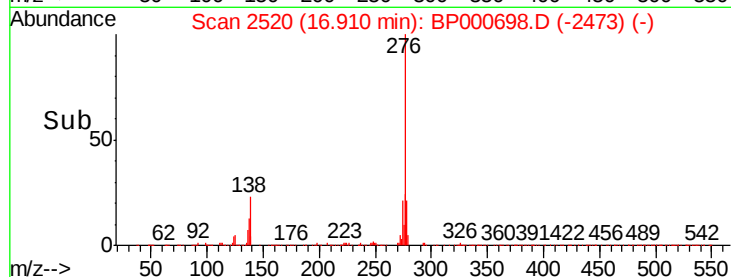
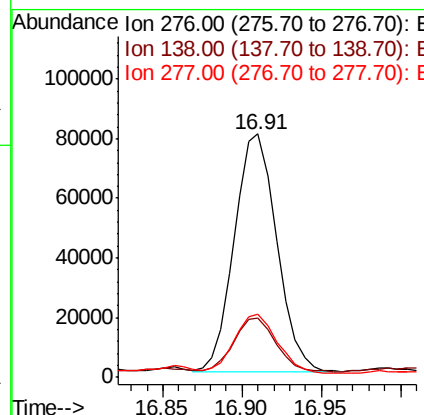
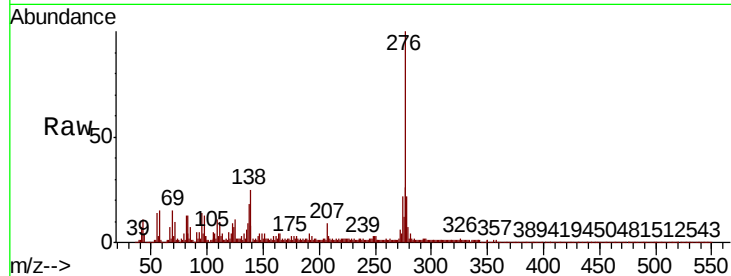
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 3.050 ng  
RT: 16.91 min Scan# 2520  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.9  | 20.9  | 31.3  |
| 277     | 25.3  | 20.6  | 30.8  |

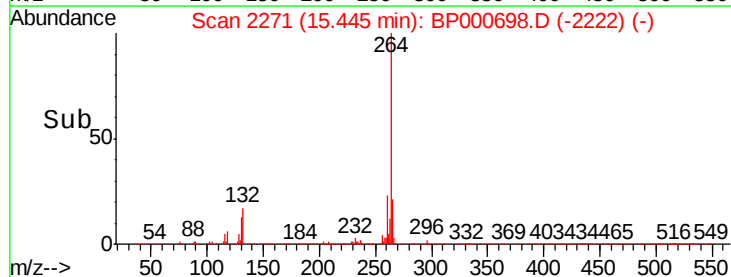
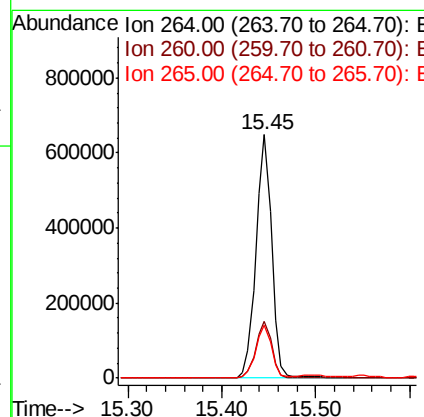
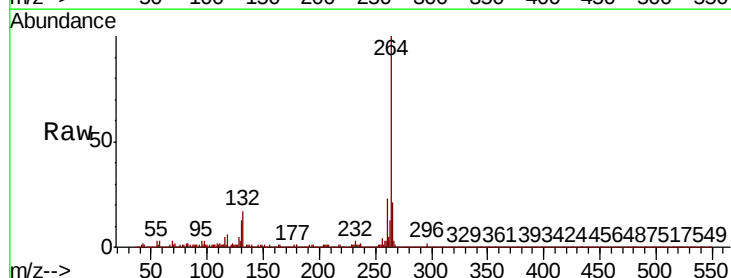
Manual Integrations  
APPROVED

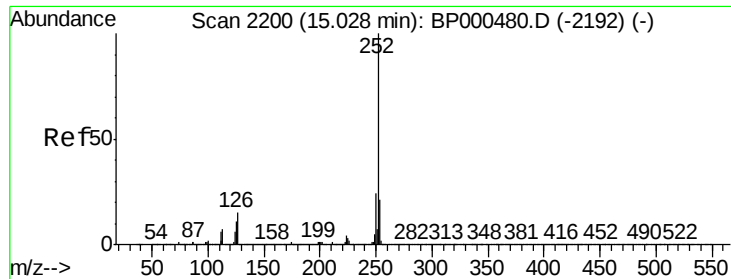
mohammad  
10/16/2019 8:08:50 AM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2271  
Delta R.T. -0.01 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 20.3  | 30.5  |
| 265     | 21.5  | 18.0  | 27.0  |





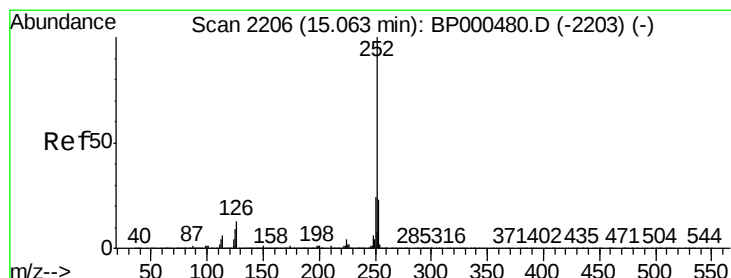
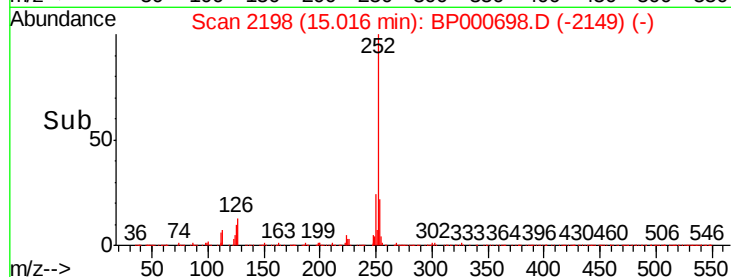
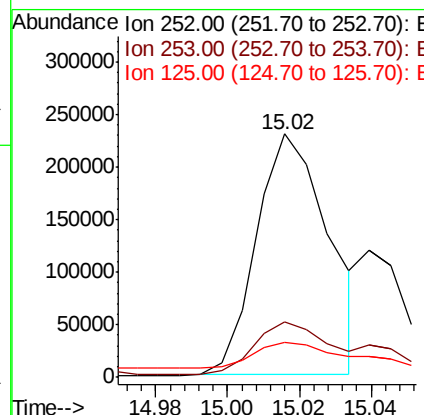
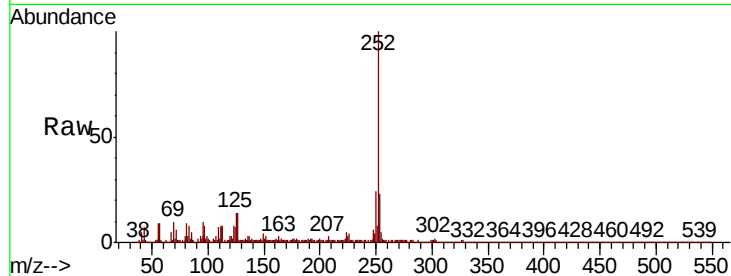
#88  
Benzo(b)fluoranthene  
Concen: 7.565 ng m  
RT: 15.02 min Scan# 2198  
Delta R.T. -0.01 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.0  | 25.4  |
| 125     | 14.3  | 8.9   | 13.3  |

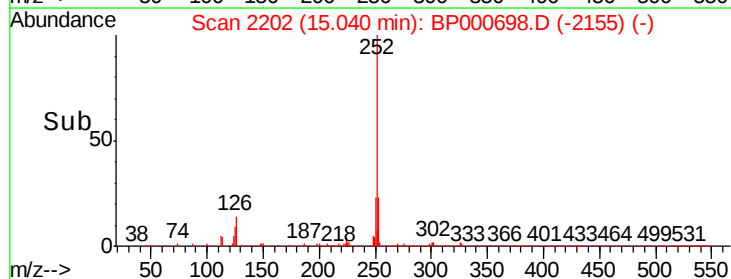
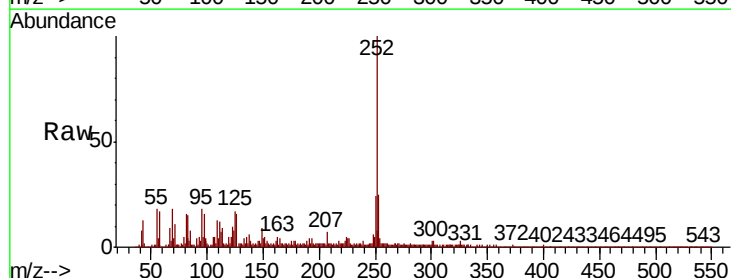
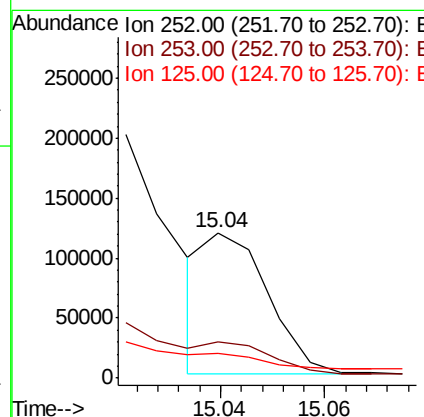
Manual Integrations  
APPROVED

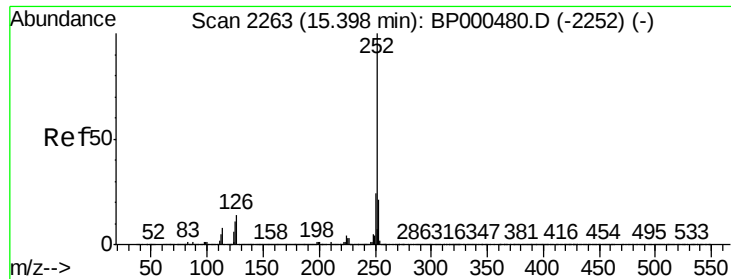
mohammad  
10/16/2019 8:08:50 AM



#89  
Benzo(k)fluoranthene  
Concen: 2.419 ng m  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 18.4  | 27.6  |
| 125     | 16.9  | 7.8   | 11.8  |





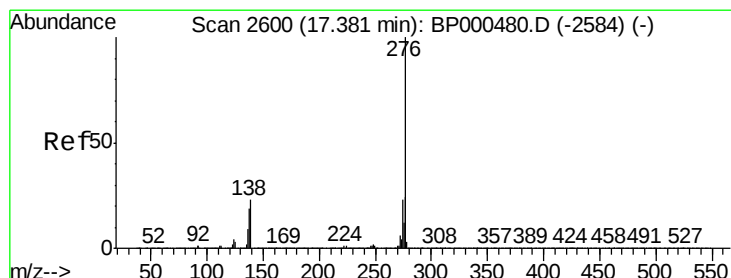
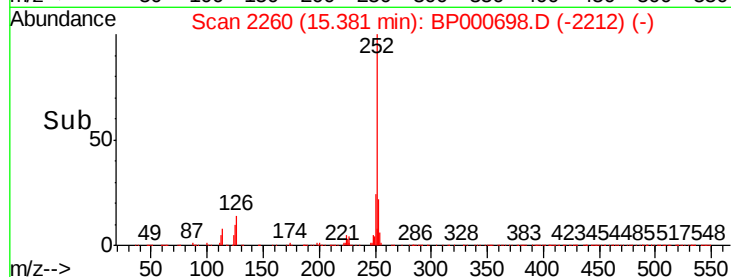
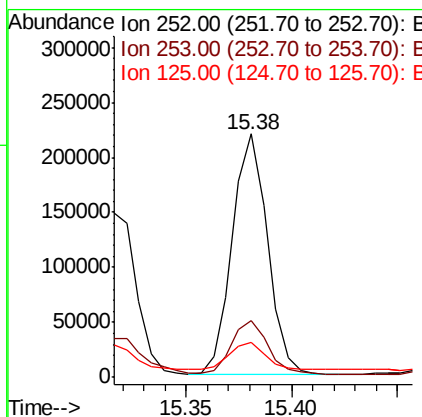
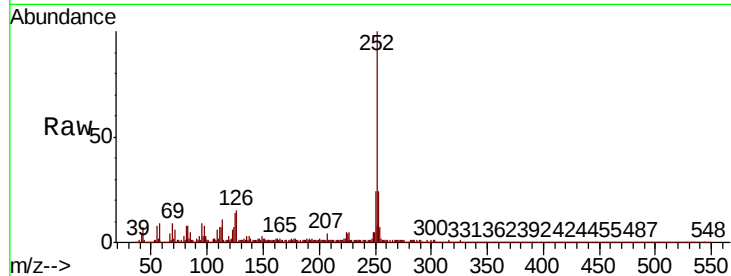
#90  
Benzo(a)pyrene  
Concen: 6.439 ng  
RT: 15.38 min Scan# 2260  
Delta R.T. -0.02 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

Instrument :  
BNA\_P  
ClientSampleId :  
20190831-COMPOSITE-G

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.0  | 25.6  |
| 125     | 14.3  | 8.4   | 12.6  |

Manual Integrations  
APPROVED

mohammad  
10/16/2019 8:08:50 AM



#92  
Benzo(g,h,i)perylene  
Concen: 3.841 ng  
RT: 17.35 min Scan# 2594  
Delta R.T. -0.04 min  
Lab File: BP000698.D  
Acq: 13 Oct 2019 03:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 19.4  | 29.2  |
| 138     | 24.7  | 18.5  | 27.7  |

