

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010918\  
 Data File : BF101966.D  
 Acq On : 9 Jan 2018 21:31  
 Operator : SJ/JU  
 Sample : J1043-10  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-COMP

Manual Integrations  
 APPROVED

Sohil  
 1/10/2018 11:45:16 AM

Quant Time: Jan 10 02:33:29 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 09 15:20:36 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 214975   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.01  | 136  | 804125   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.76  | 164  | 282607   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.24 | 188  | 408497   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.88 | 240  | 387333   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.30 | 264  | 297500   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 1337890  | 87.88  | ng    | 0.01     |
| 7) Phenol-d6                | 6.36  | 99   | 1542656  | 84.93  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 909789   | 66.49  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 179773   | 72.89  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 1176332  | 65.03  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.83 | 244  | 776598   | 41.63  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.37  | 94   | 90789    | 4.423  | ng    | 99       |
| 48) Acenaphthylene          | 9.62  | 152  | 114793   | 3.734  | ng    | 97       |
| 49) Dimethylphthalate       | 9.48  | 163  | 128421   | 5.665  | ng    | 99       |
| 74) Fluoranthene            | 12.46 | 202  | 657769   | 28.018 | ng    | 98       |
| 77) Pyrene                  | 12.68 | 202  | 610049   | 17.818 | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.87 | 228  | 415967m  | 16.832 | ng    |          |
| 82) Chrysene                | 13.90 | 228  | 335557   | 13.022 | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.67 | 276  | 130529   | 6.960  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 14.89 | 252  | 419082m  | 21.604 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.92 | 252  | 148253m  | 7.923  | ng    |          |
| 89) Benzo(a)pyrene          | 15.24 | 252  | 272708   | 15.623 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene  | 16.68 | 278  | 34365    | 2.467  | ng    | # 75     |
| 91) Benzo(a,h,i)perylene    | 17.08 | 276  | 111033   | 7.913  | ng    | # 92     |

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

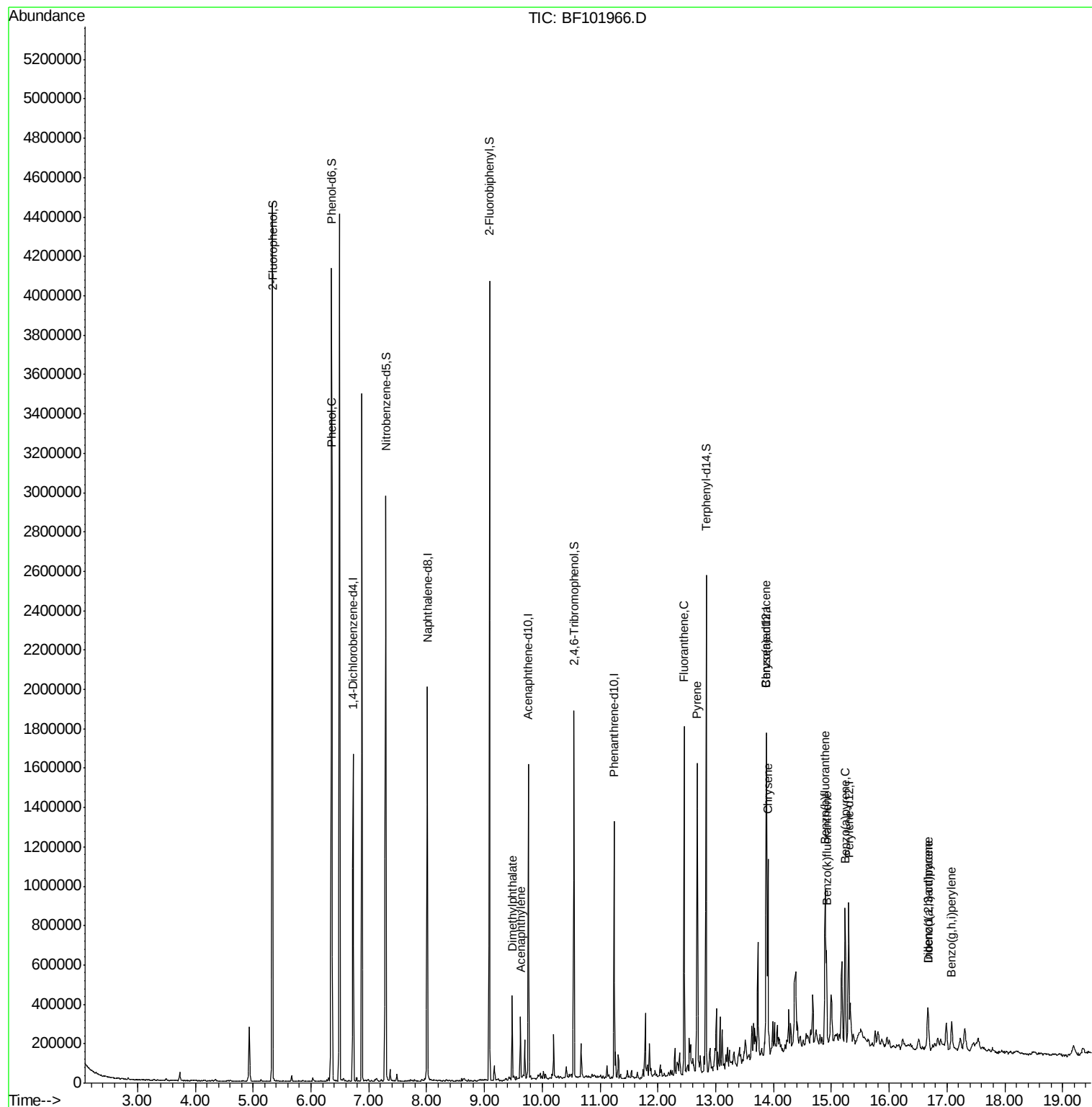
Data Path : Z:\HPCHEM1\BNA F\DATA\BF010918\  
Data File : BF101966.D  
Acq On : 9 Jan 2018 21:31  
Operator : SJ/JU  
Sample : J1043-10  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

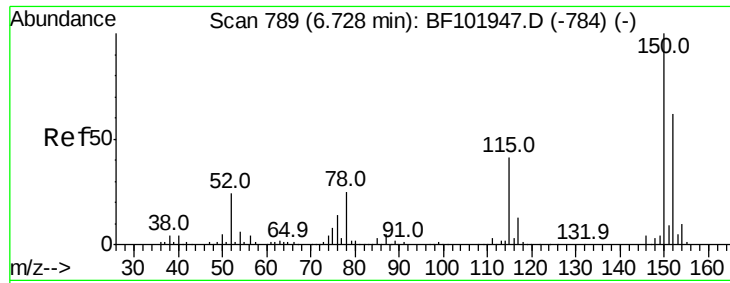
Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM

Quant Time: Jan 10 02:33:29 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 09 15:20:36 2018  
Response via : Initial Calibration





#1

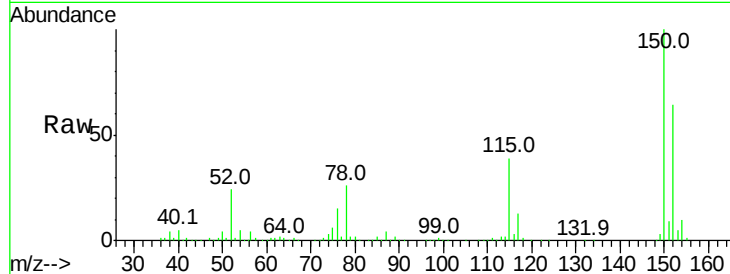
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 124.6 | 186.8 |
| 115     | 61.7  | 50.1  | 75.1  |

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM

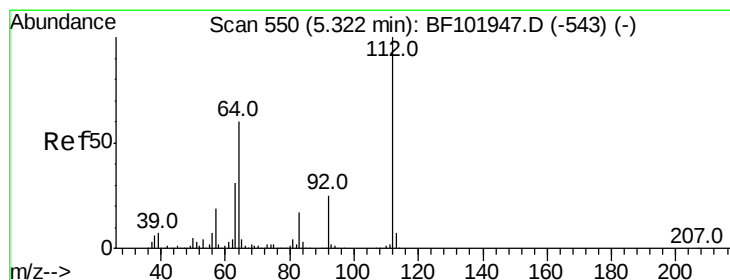
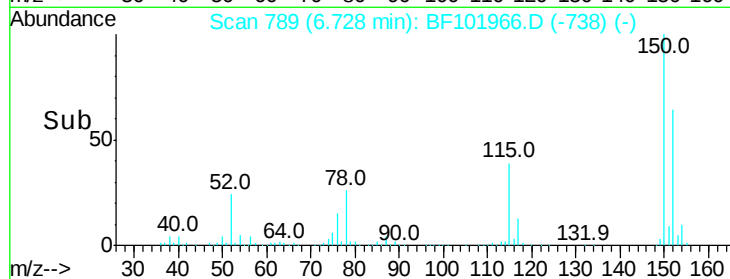
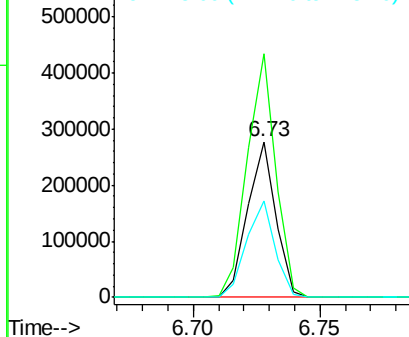


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

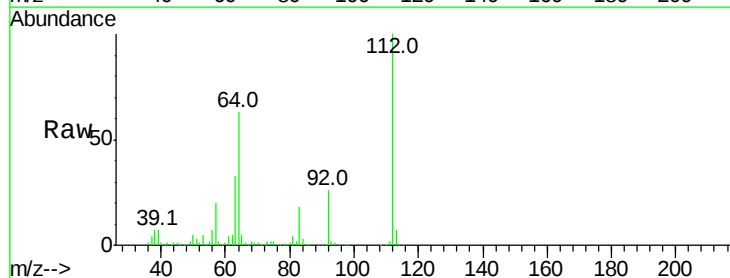
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 87.880 ng  
RT: 5.33 min Scan# 552  
Delta R.T. 0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.3  | 47.9  | 71.9  |
| 63      | 33.0  | 23.7  | 35.5  |

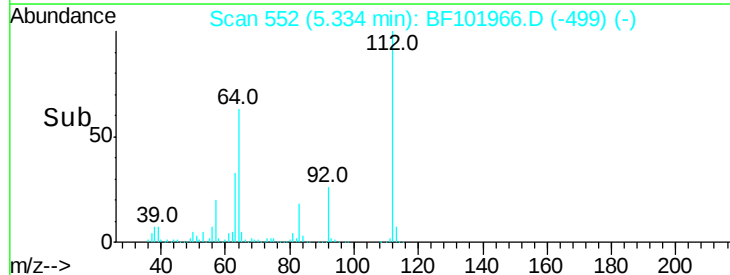
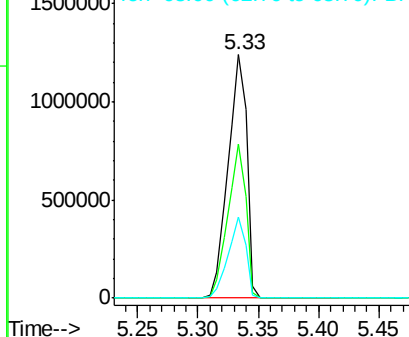


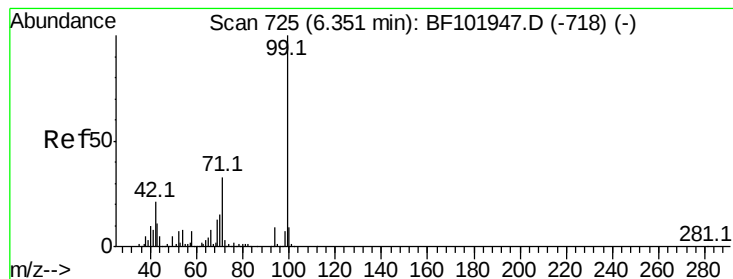
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 84.930 ng

RT: 6.36 min Scan# 726

Delta R.T. 0.01 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

Instrument :

BNA\_F

ClientSampleId :

SB-04-COMP

Tot Ion: 99 Resp: 1542656

Ion Ratio Lower Upper

99 100

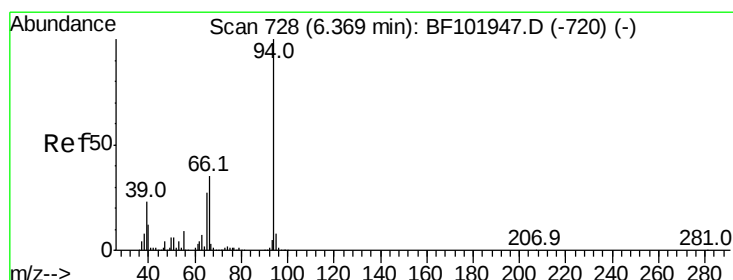
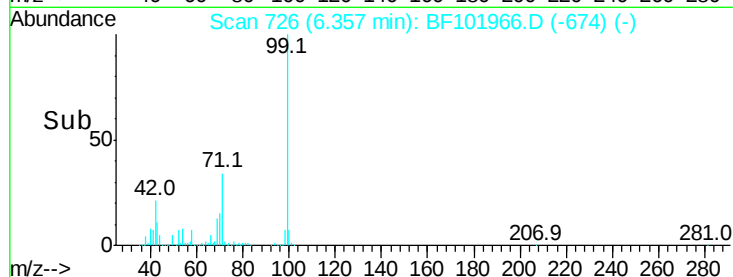
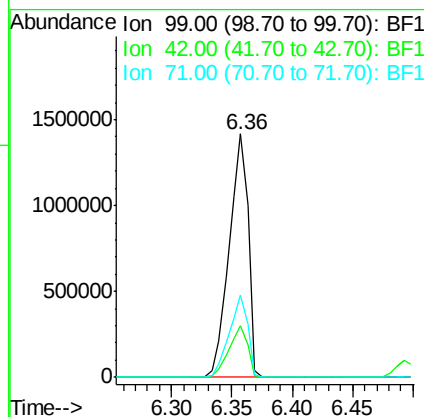
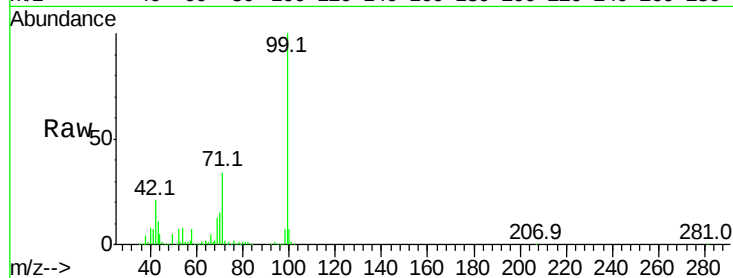
42 21.0 14.5 21.7

71 33.7 25.4 38.0

Manual Integrations  
APPROVED

Sohil

1/10/2018 11:45:16 AM



#10

Phenol

Concen: 4.423 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

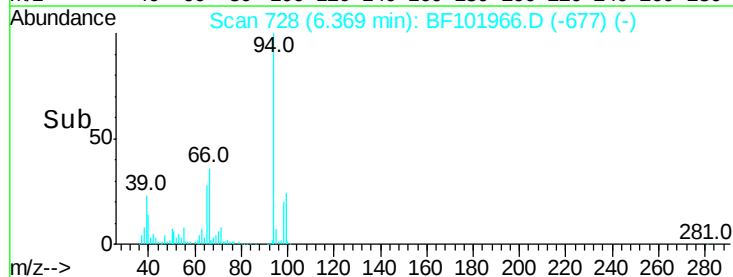
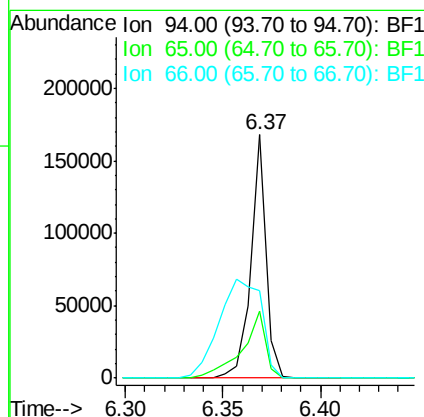
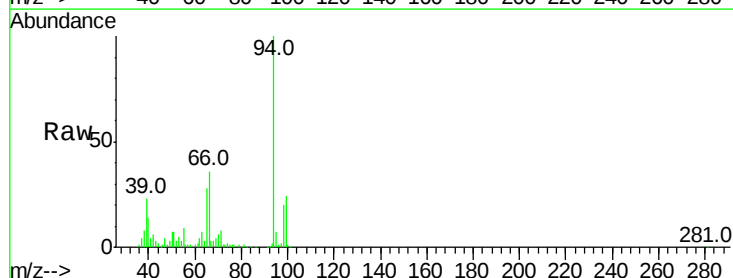
Tgt Ion: 94 Resp: 90789

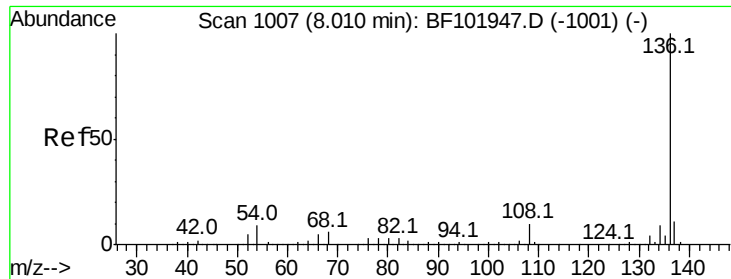
Ion Ratio Lower Upper

94 100

65 27.6 7.9 47.9

66 35.7 16.2 56.2





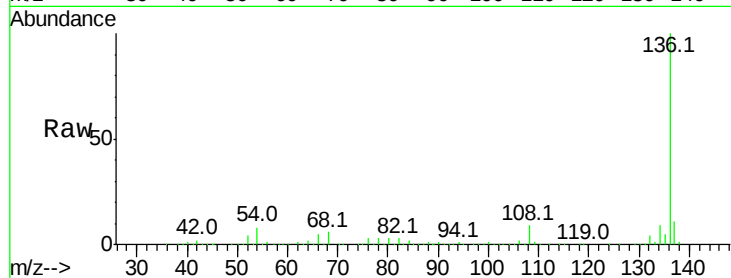
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

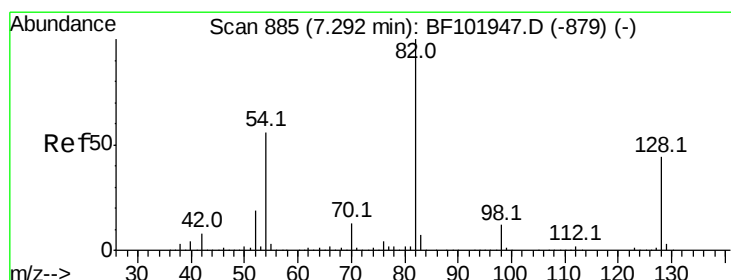
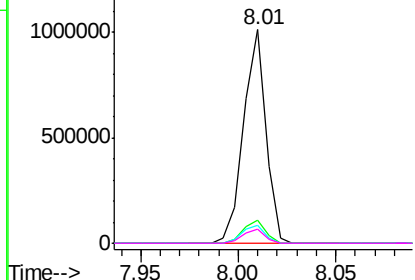
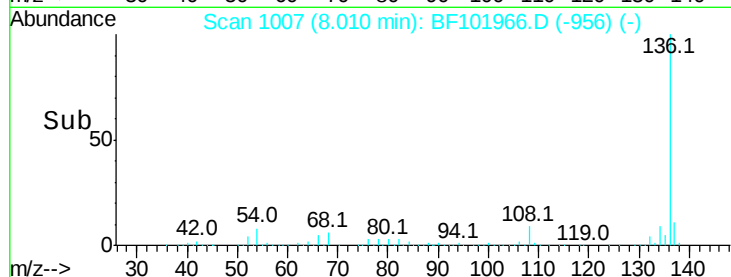
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 804125 |       |       |
| 137     | 11.0  |        | 8.9   | 13.3  |
| 54      | 8.4   |        | 6.6   | 9.8   |
| 68      | 6.3   |        | 5.0   | 7.4   |

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM

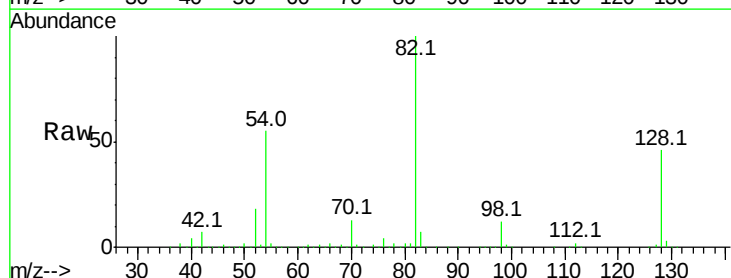


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

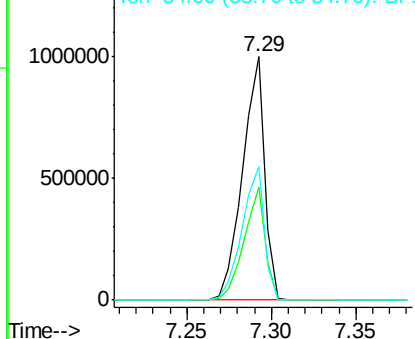
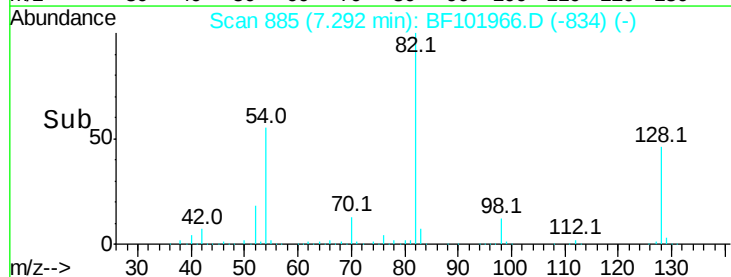


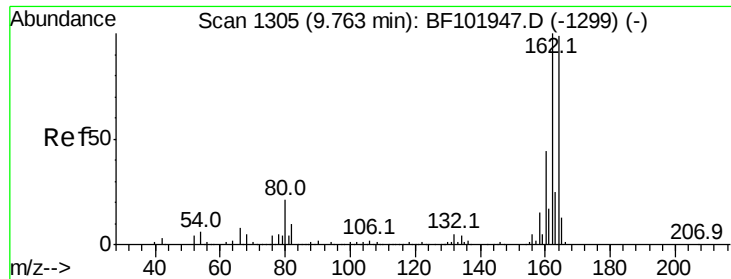
#23  
Nitrobenzene-d5  
Concen: 66.486 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 909789 |       |       |
| 128     | 46.3  |        | 36.1  | 54.1  |
| 54      | 54.9  |        | 41.4  | 62.2  |



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





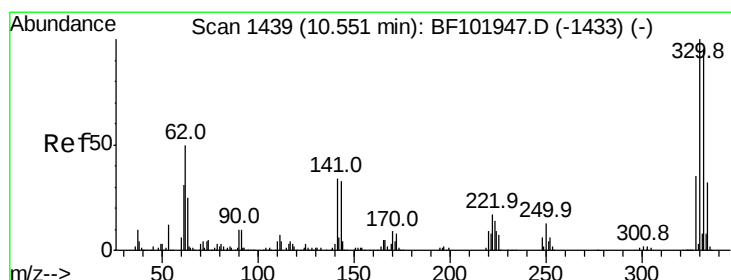
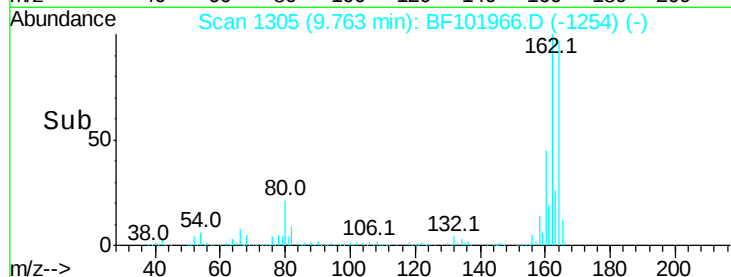
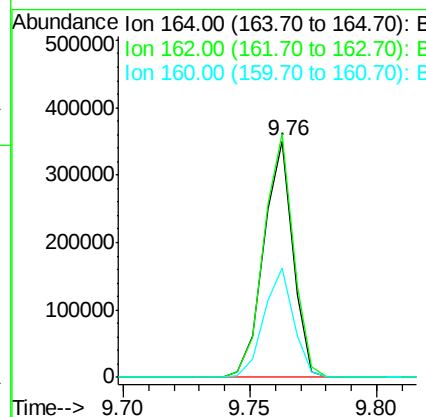
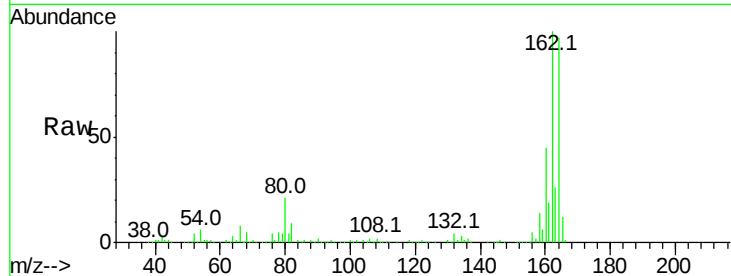
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 282607 |       |       |
| 162     | 103.2 | 86.1   | 129.1 |       |
| 160     | 46.5  | 38.3   | 57.5  |       |

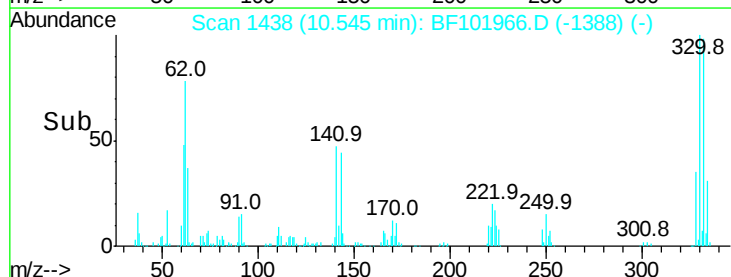
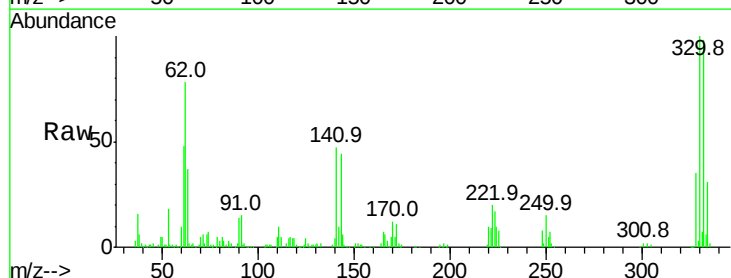
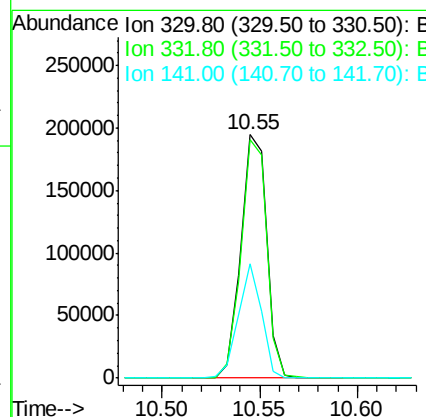
Manual Integrations  
APPROVED

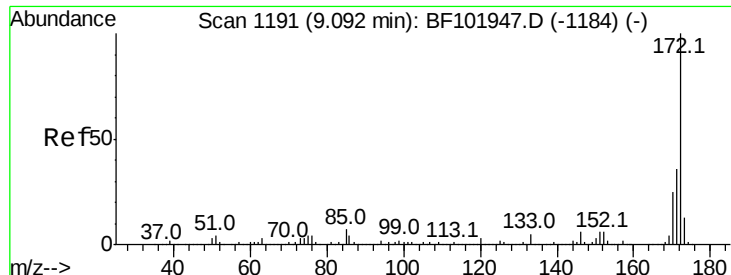
Sohil  
1/10/2018 11:45:16 AM



#41  
2,4,6-Tribromophenol  
Concen: 72.893 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 179773 |       |       |
| 332     | 97.0  | 77.0   | 115.6 |       |
| 141     | 42.1  | 29.9   | 44.9  |       |





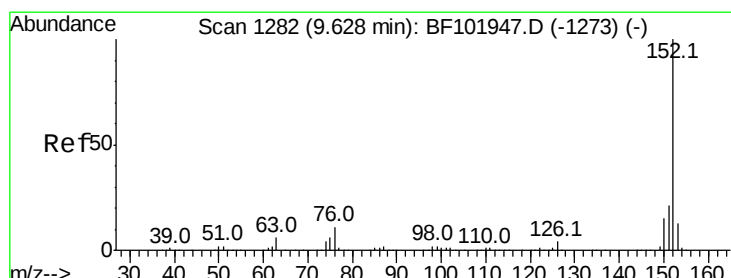
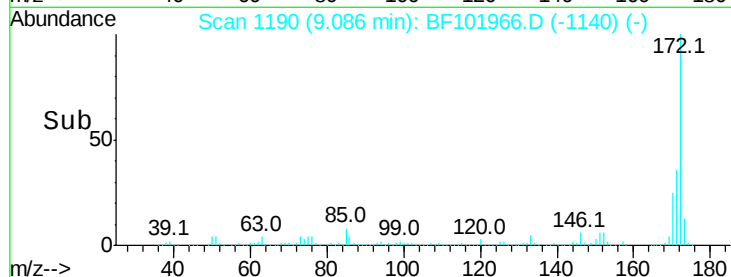
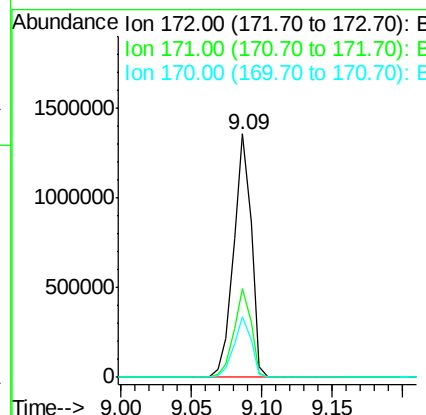
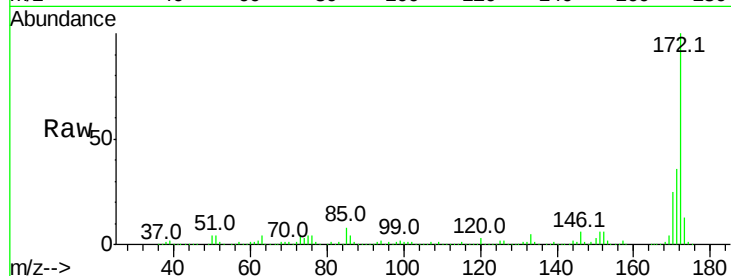
#44  
2-Fluorobiphenyl  
Concen: 65.028 ng  
RT: 9.09 min Scan# 1190  
Delta R.T. -0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.7  | 44.5  |
| 170     | 24.7  | 19.6  | 29.4  |

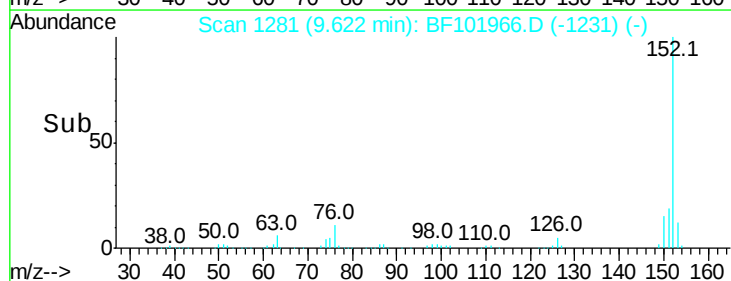
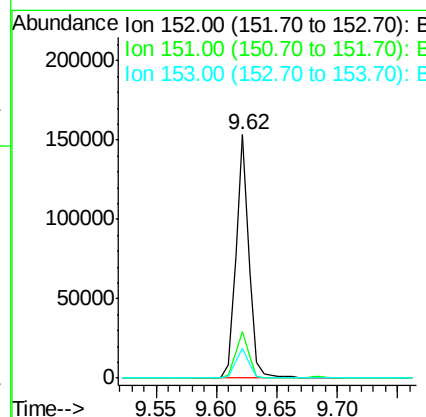
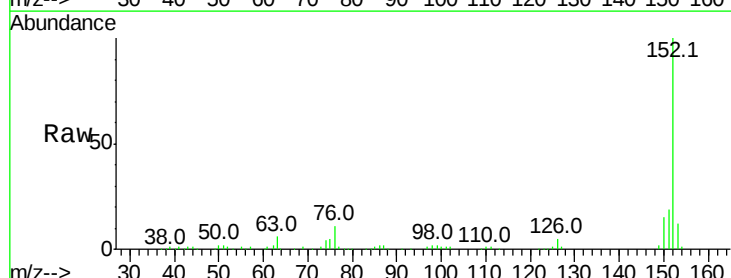
Manual Integrations  
APPROVED

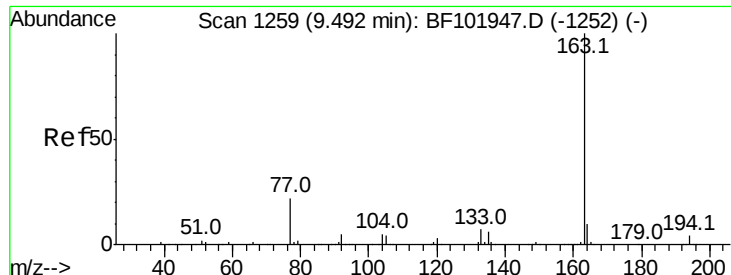
Sohil  
1/10/2018 11:45:16 AM



#48  
Acenaphthylene  
Concen: 3.734 ng  
RT: 9.62 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.2  | 16.3  | 24.5  |
| 153     | 12.5  | 10.7  | 16.1  |





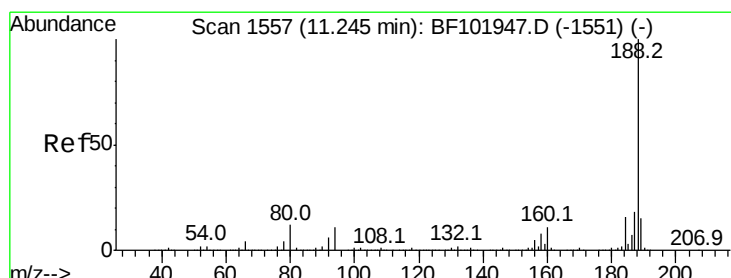
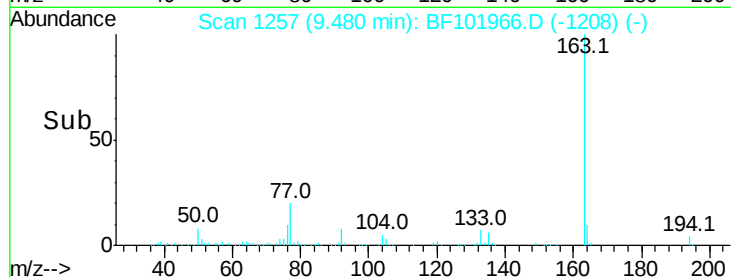
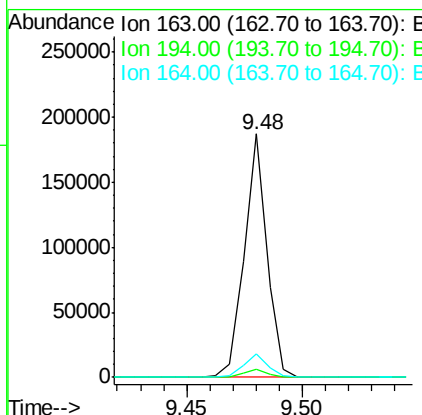
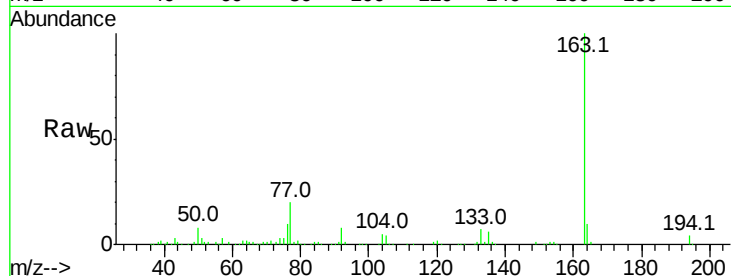
#49  
Dimethylphthalate  
Concen: 5.665 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.6   | 2.7  | 4.1   |       |
| 164     | 9.8   | 8.2  | 12.2  |       |

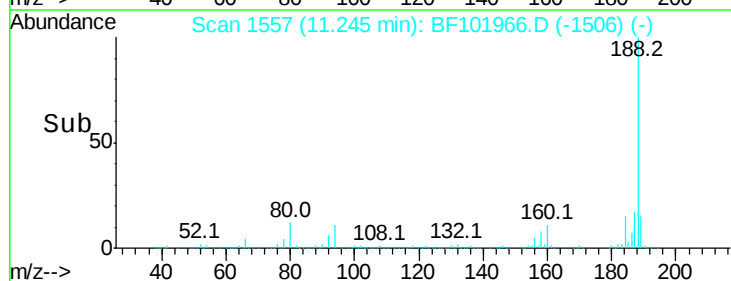
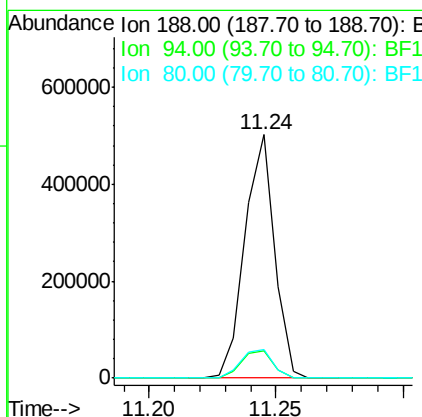
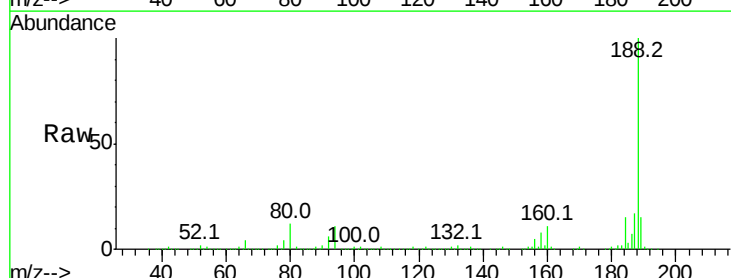
Manual Integrations  
APPROVED

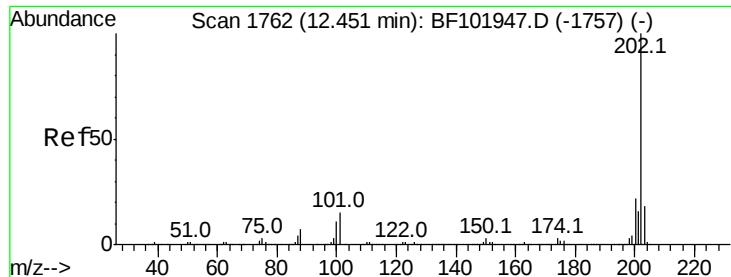
Sohil  
1/10/2018 11:45:16 AM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1557  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 11.0  | 8.5  | 12.7  |       |
| 80      | 11.7  | 9.2  | 13.8  |       |





#74

Fluoranthene

Concen: 28.018 ng

RT: 12.46 min Scan# 1763

Delta R.T. 0.01 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

Instrument :

BNA\_F

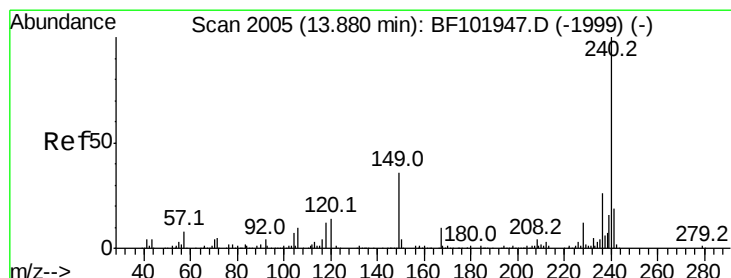
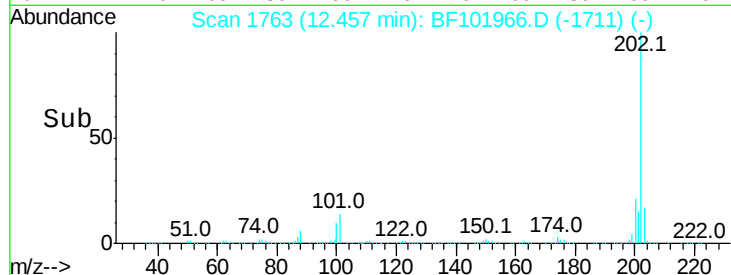
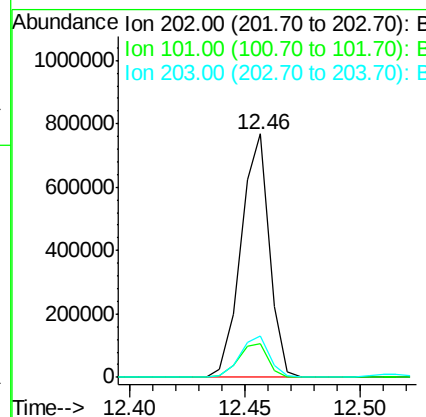
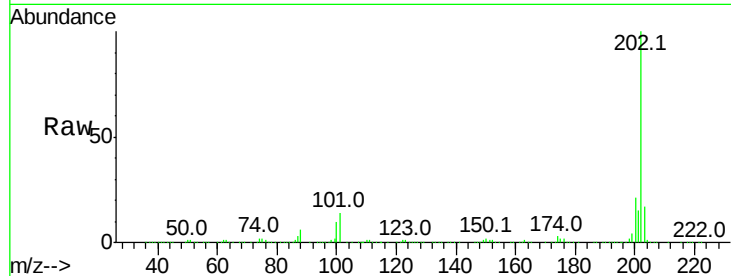
ClientSampled :

SB-04-COMP

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 657769 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.6  | 0.0   | 34.1   |
| 203       | 16.8  | 0.0   | 38.1   |

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM



#75

Chrysene-d12

Concen: 20.000 ng

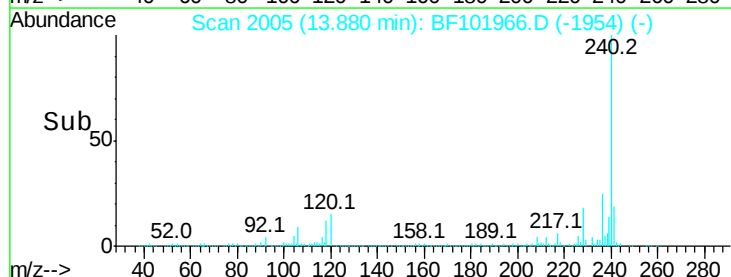
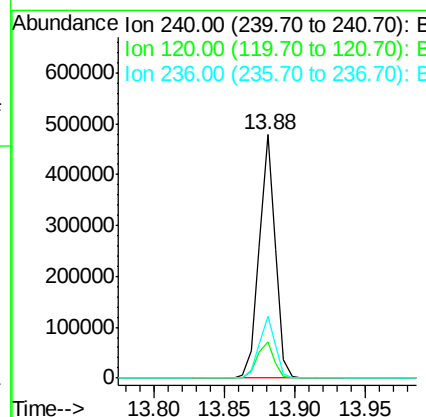
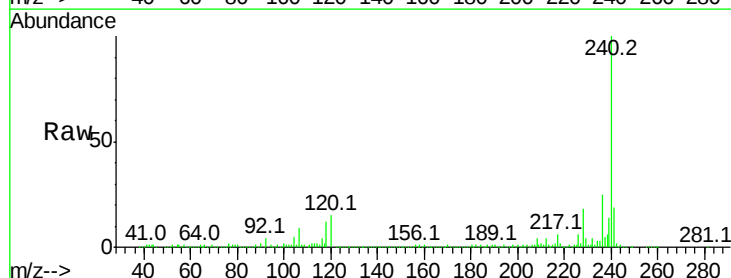
RT: 13.88 min Scan# 2005

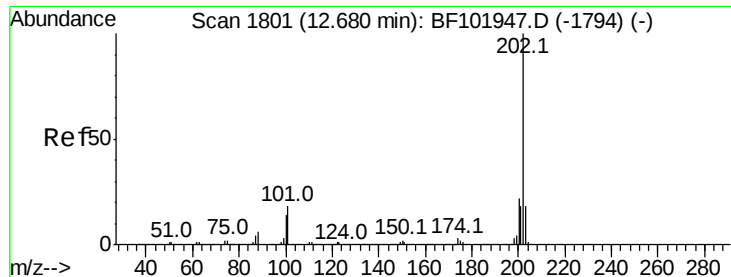
Delta R.T. -0.00 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 387333 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 14.8  | 9.5   | 14.3#  |
| 236       | 25.4  | 20.7  | 31.1   |





#77

Pvrene

Concen: 17.818 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

Instrument :

BNA\_F

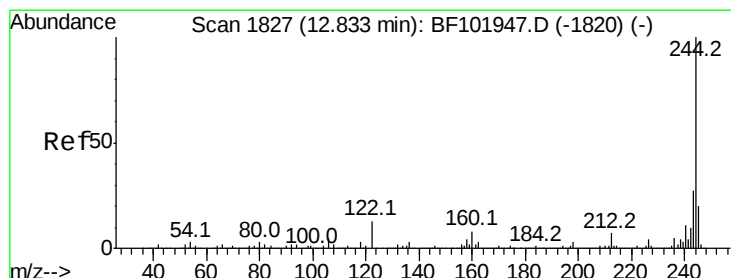
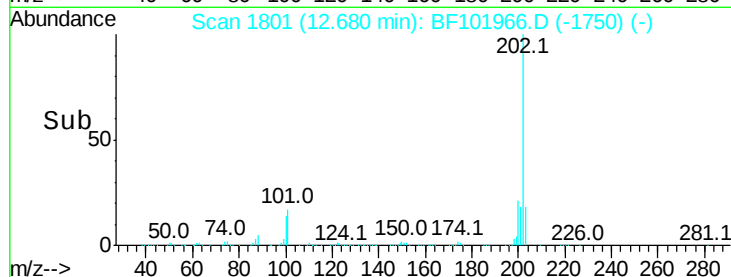
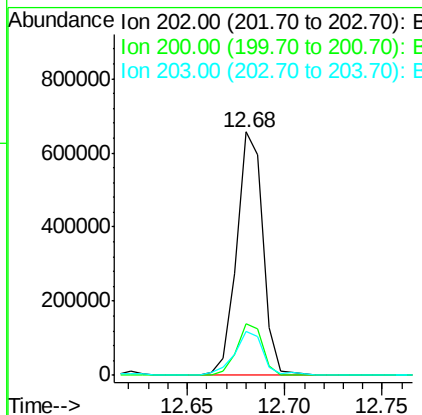
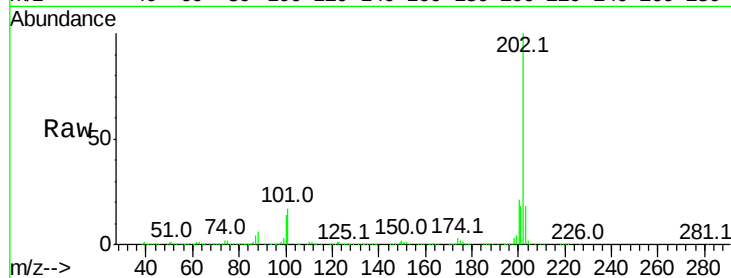
ClientSampleId :

SB-04-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 17.4  | 26.2  |
| 203     | 18.0  | 14.3  | 21.5  |

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM



#78

Terphenyl-d14

Concen: 41.629 ng

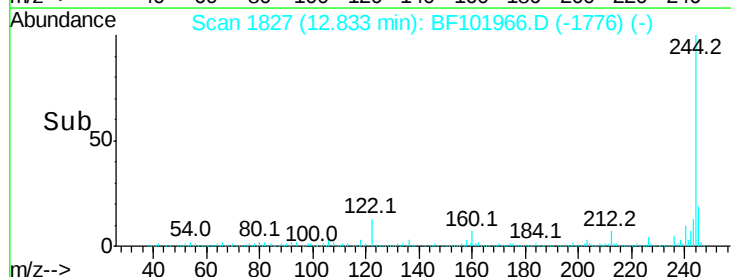
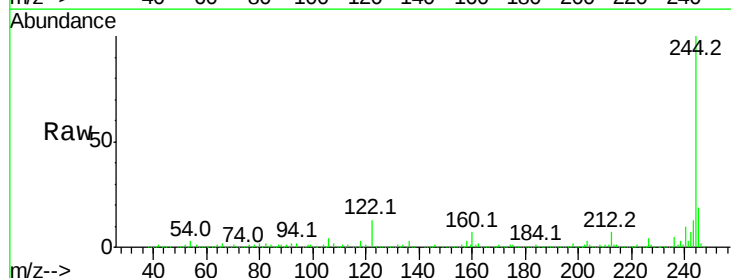
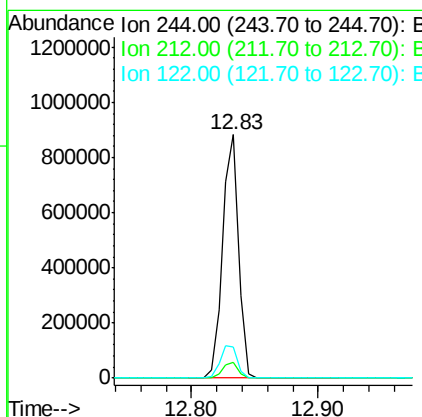
RT: 12.83 min Scan# 1827

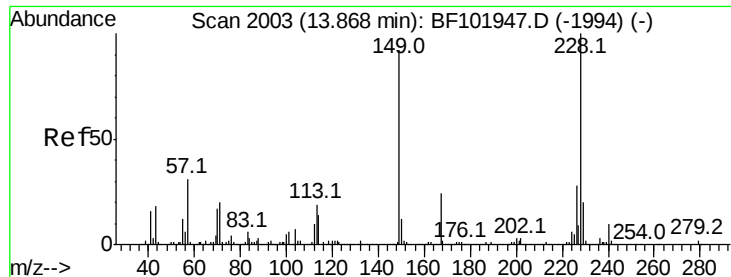
Delta R.T. -0.00 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.4   | 8.0   |
| 122     | 12.7  | 11.0  | 16.4  |





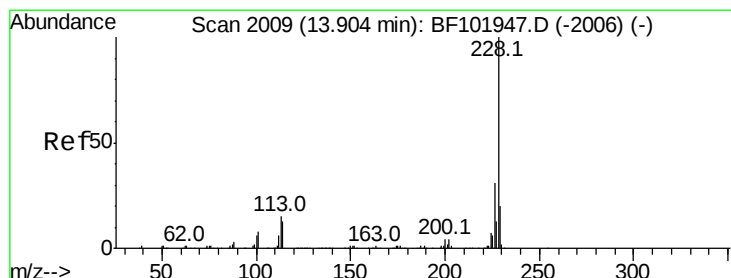
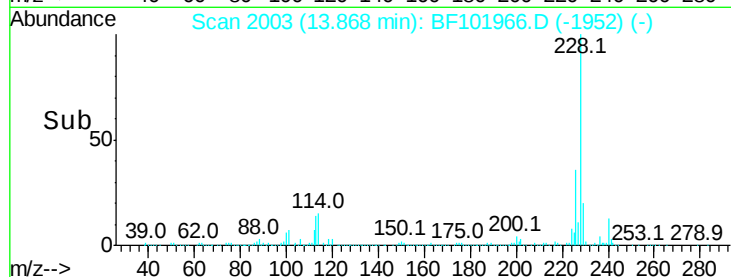
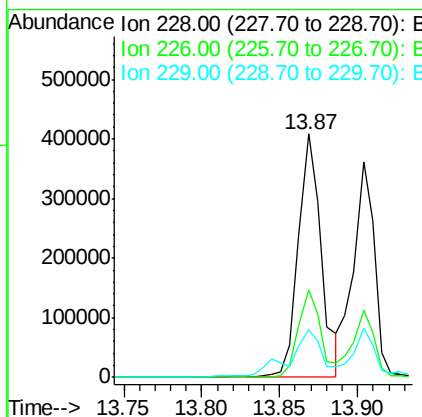
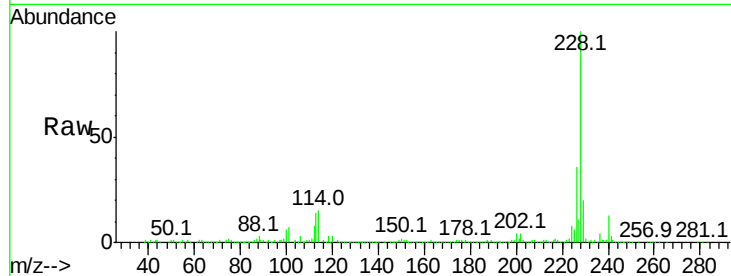
#80  
Benzo(a)anthracene  
Concen: 16.832 ng m  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

Tot Ion:228 Resp: 415967  
Ion Ratio Lower Upper  
228 100  
226 35.7 22.6 33.8#  
229 19.8 15.8 23.6

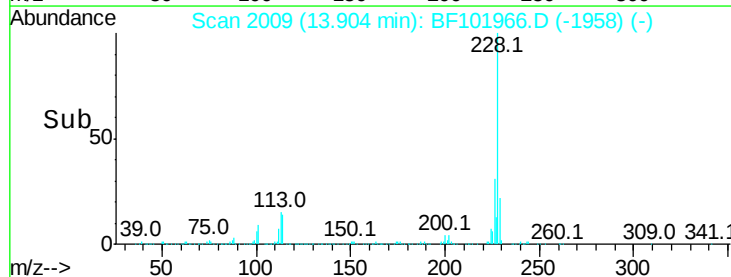
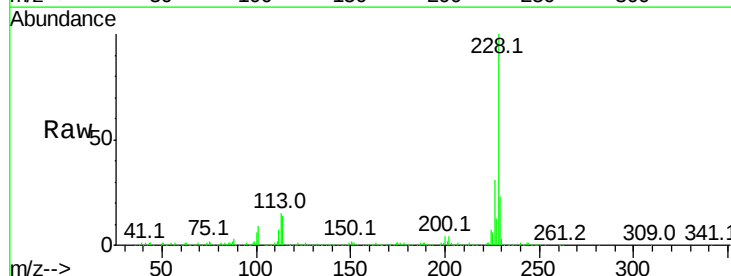
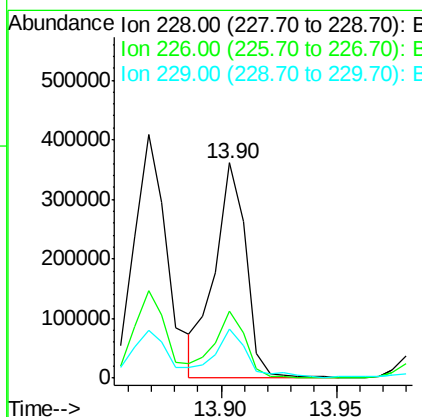
Manual Integrations  
APPROVED

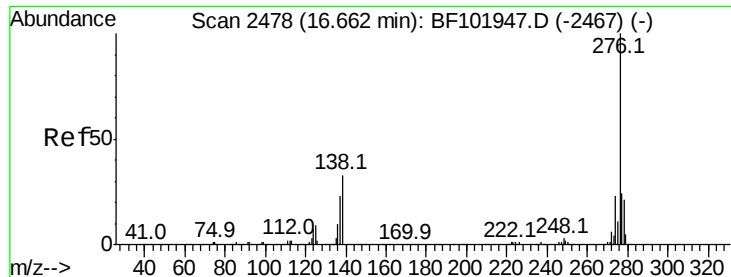
Sohil  
1/10/2018 11:45:16 AM



#82  
Chrysene  
Concen: 13.022 ng  
RT: 13.90 min Scan# 2009  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Tgt Ion:228 Resp: 335557  
Ion Ratio Lower Upper  
228 100  
226 31.1 25.0 37.6  
229 22.7 16.2 24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.960 ng

RT: 16.67 min Scan# 2479

Delta R.T. 0.01 min

Lab File: BF101966.D

Acq: 9 Jan 2018 21:31

Instrument :

BNA\_F

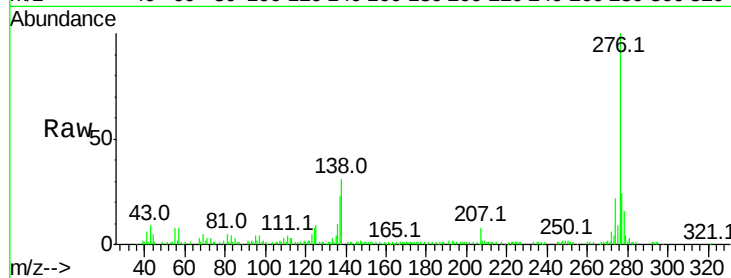
ClientSampleId :

SB-04-COMP

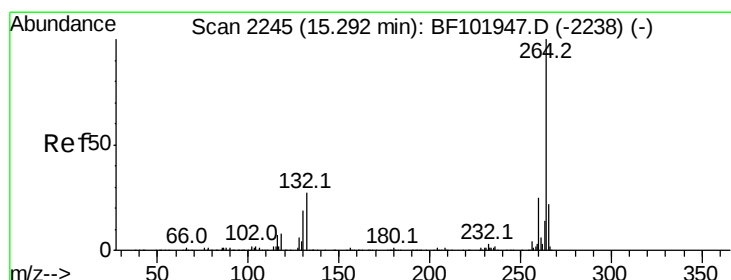
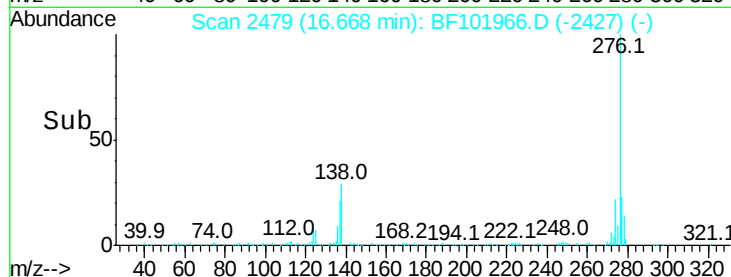
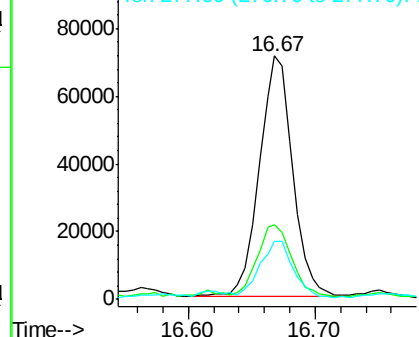
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 130529 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 31.0  | 25.0  | 37.6   |
| 277       | 22.9  | 20.1  | 30.1   |

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM



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



#86

Perylene-d12

Concen: 20.000 ng

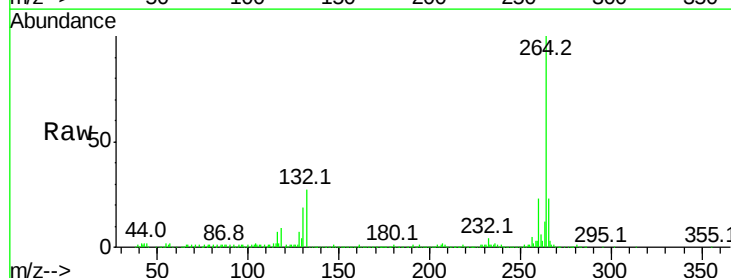
RT: 15.30 min Scan# 2246

Delta R.T. 0.01 min

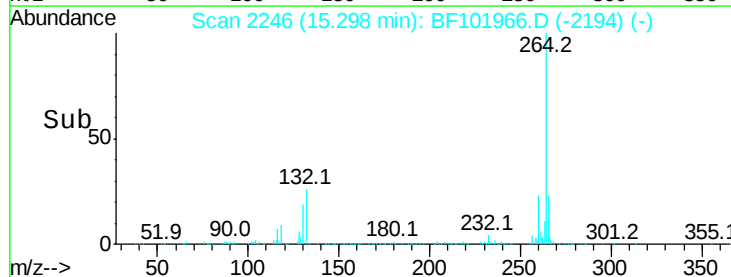
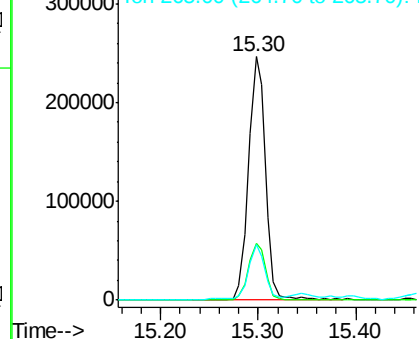
Lab File: BF101966.D

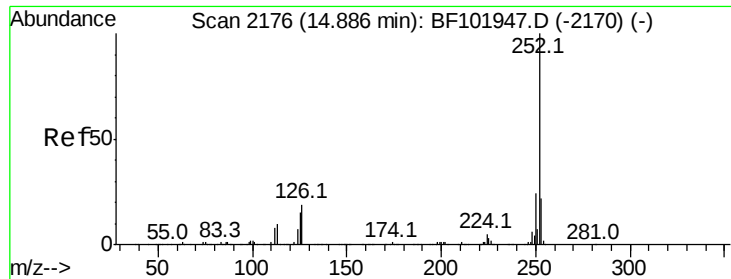
Acq: 9 Jan 2018 21:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 297500 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.4  | 19.2  | 28.8   |
| 265       | 22.6  | 17.5  | 26.3   |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





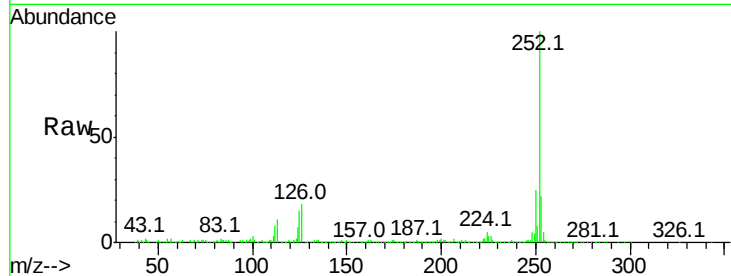
#87  
Benzo(b)fluoranthene  
Concen: 21.604 ng m  
RT: 14.89 min Scan# 2177  
Delta R.T. 0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.0  | 25.6  |
| 125     | 15.4  | 9.0   | 13.6  |

Manual Integrations  
APPROVED

Sohil  
1/10/2018 11:45:16 AM

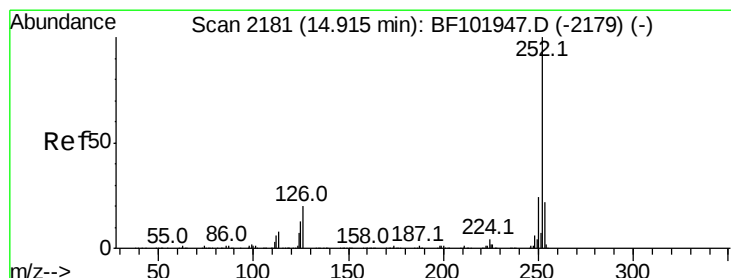
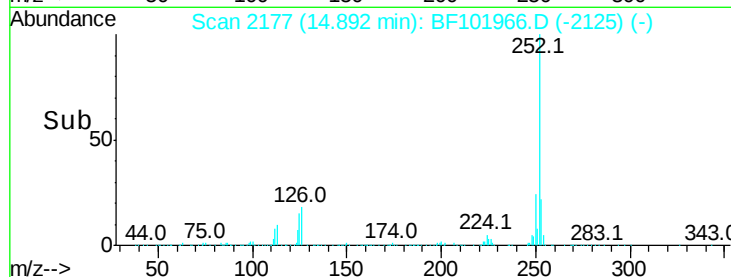
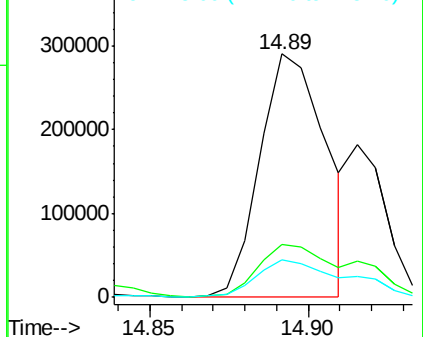


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88  
Benzo(k)fluoranthene  
Concen: 7.923 ng m  
RT: 14.92 min Scan# 2181  
Delta R.T. -0.00 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

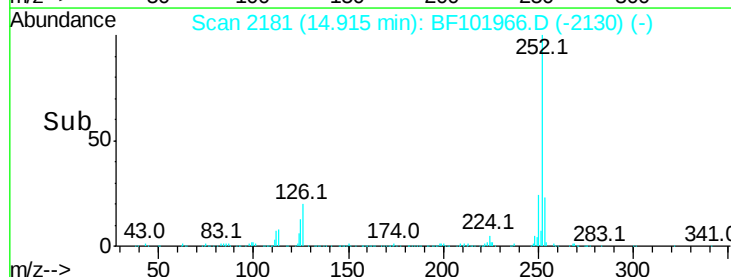
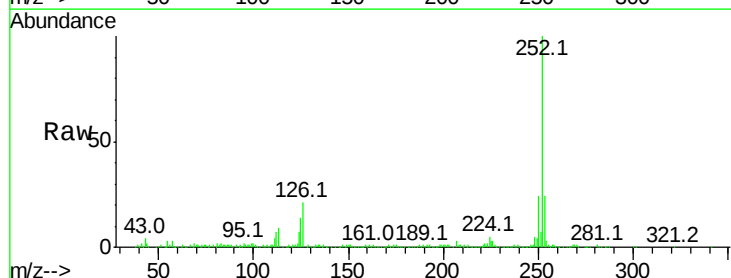
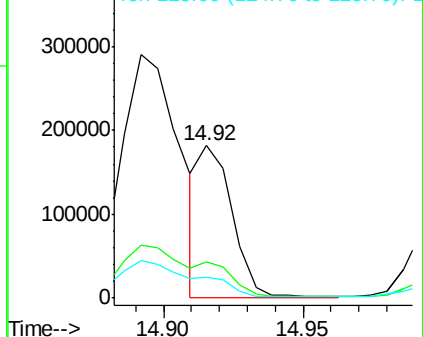
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.9  | 26.9  |
| 125     | 13.6  | 10.2  | 15.2  |

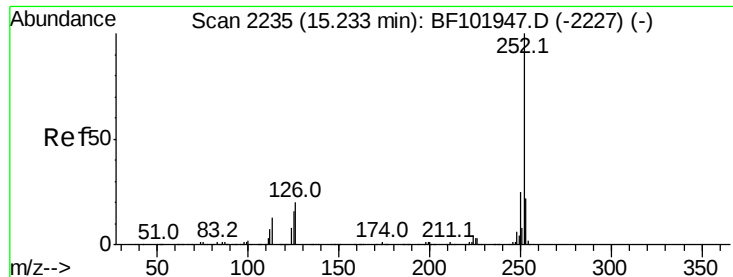
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





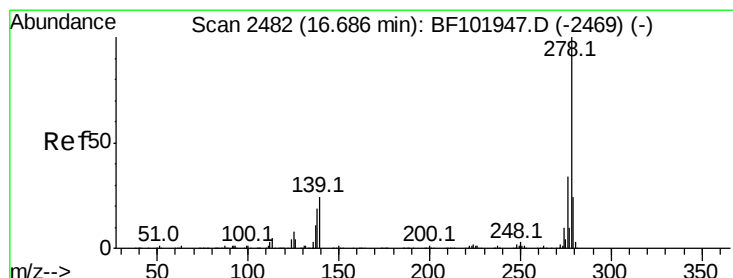
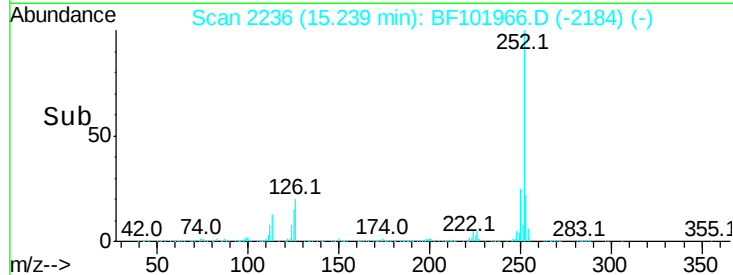
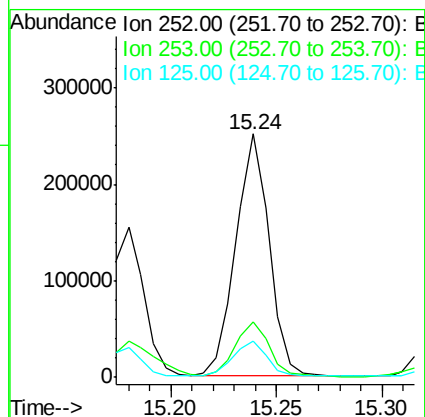
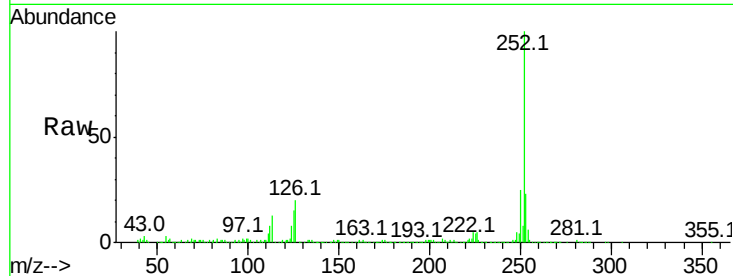
#89  
Benzo(a)pyrene  
Concen: 15.623 ng  
RT: 15.24 min Scan# 2236  
Delta R.T. 0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.1  | 25.7  |
| 125     | 15.1  | 9.8   | 14.6  |

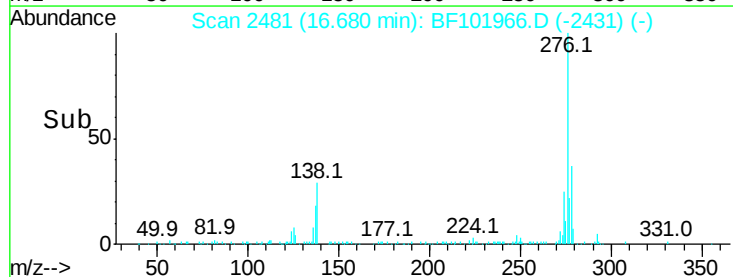
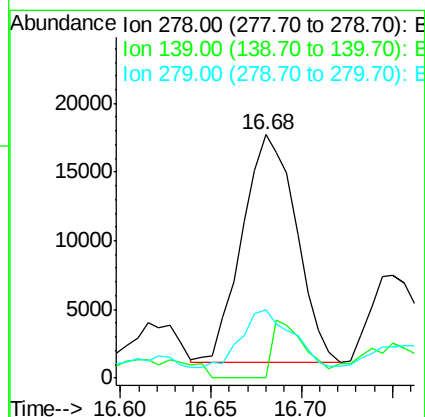
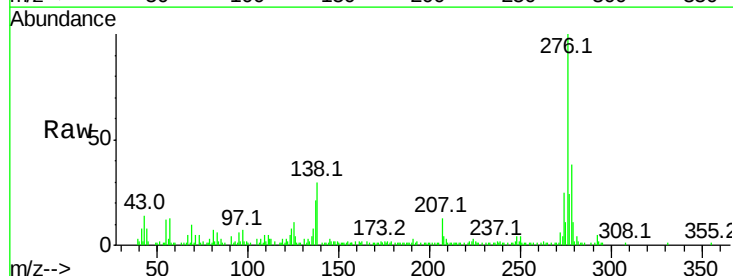
Manual Integrations  
APPROVED

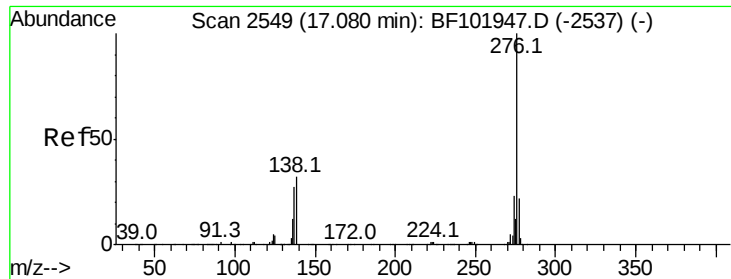
Sohil  
1/10/2018 11:45:16 AM



#90  
Dibenzo(a,h)anthracene  
Concen: 2.467 ng  
RT: 16.68 min Scan# 2481  
Delta R.T. -0.01 min  
Lab File: BF101966.D  
Acq: 9 Jan 2018 21:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 15.9  | 23.9  |
| 279     | 28.2  | 19.0  | 28.4  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 7.913 ng  
 RT: 17.08 min Scan# 2549  
 Delta R.T. -0.00 min  
 Lab File: BF101966.D  
 Acq: 9 Jan 2018 21:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.7  | 17.9  | 26.9  |
| 138     | 34.2  | 21.8  | 32.8  |

Manual Integrations  
 APPROVED

Sohil  
 1/10/2018 11:45:16 AM

