

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\  
 Data File : BF097772.D  
 Acq On : 17 Aug 2017 7:18  
 Operator : SJ/JU  
 Sample : I4791-06  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

Manual Integrations  
 APPROVED

Sohil  
 8/17/2017 5:58:11 PM

Quant Time: Aug 17 14:52:12 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 150897   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.06  | 136  | 572578   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.82  | 164  | 229992   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.30 | 188  | 339913   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.93 | 240  | 288622   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.36 | 264  | 246046   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.40  | 112  | 1317676  | 132.82 | ng    | 0.01     |
| 7) Phenol-d6                | 6.42  | 99   | 1779485  | 132.02 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 1073005  | 101.80 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 244425   | 122.48 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 1477848  | 94.41  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.89 | 244  | 852297   | 61.58  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.43  | 94   | 50851    | 3.226  | ng    | 92       |
| 49) Dimethylphthalate       | 9.53  | 163  | 208954   | 12.429 | ng    | 99       |
| 74) Fluoranthene            | 12.50 | 202  | 57962    | 3.066  | ng    | 96       |
| 77) Pyrene                  | 12.73 | 202  | 68157    | 2.887  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.92 | 228  | 41175m   | 2.380  | ng    |          |
| 82) Chrysene                | 13.96 | 228  | 42594    | 2.475  | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.75 | 276  | 30173m   | 2.384  | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.95 | 252  | 65940m   | 4.252  | ng    |          |
| 89) Benzo(a)pyrene          | 15.30 | 252  | 50010    | 3.642  | ng    | 98       |
| 91) Benzo(g,h,i)perylene    | 17.17 | 276  | 37725    | 3.235  | ng    | 95       |

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

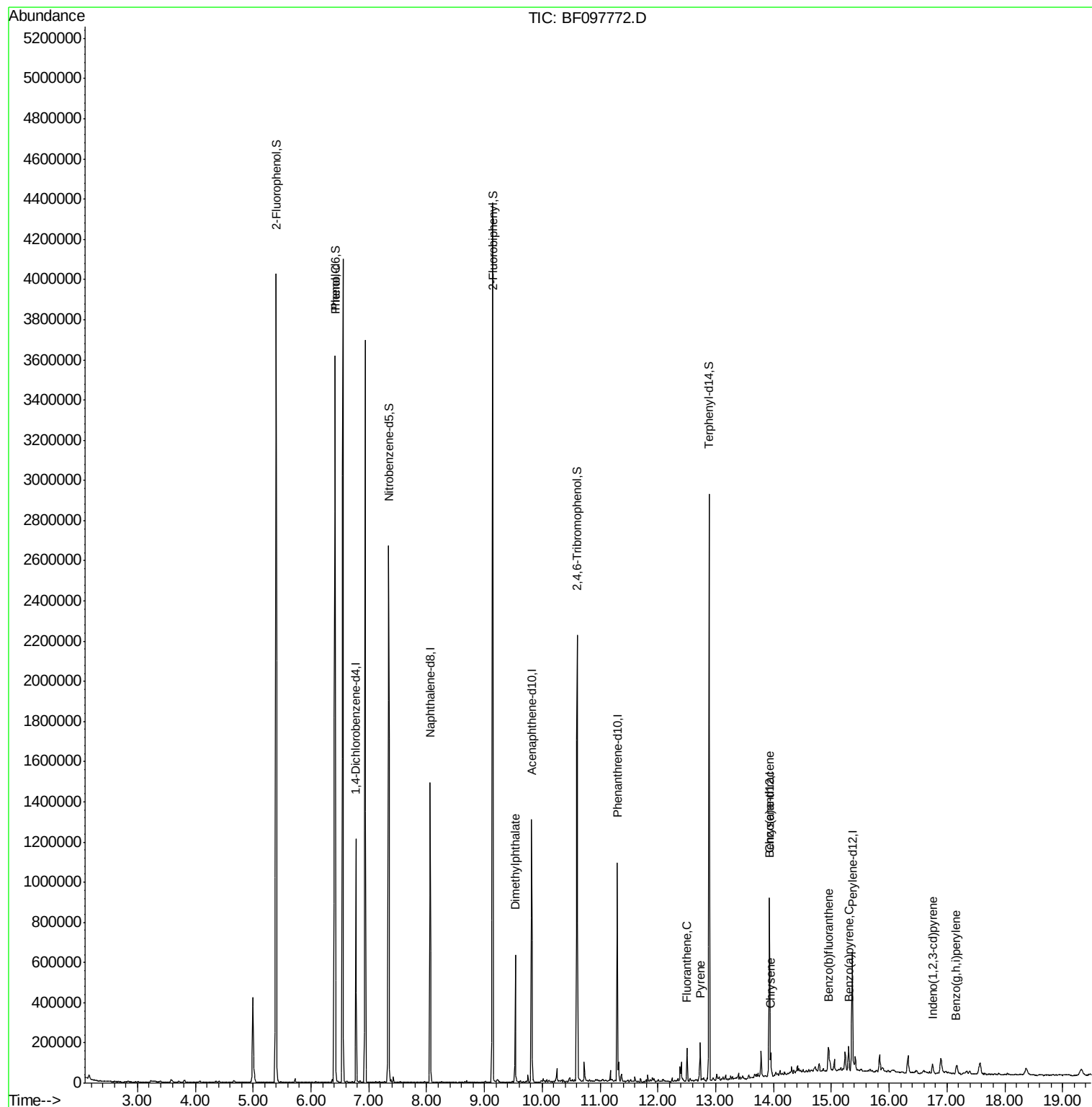
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\  
Data File : BF097772.D  
Acq On : 17 Aug 2017 7:18  
Operator : SJ/JU  
Sample : I4791-06  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

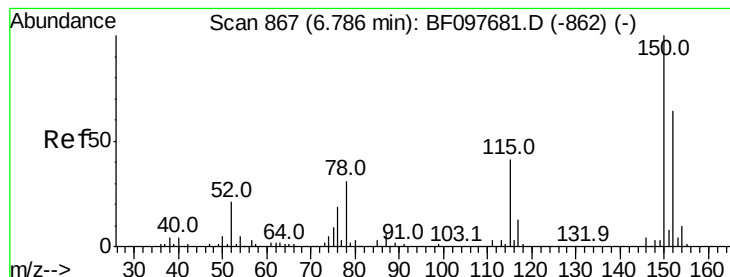
Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

Manual Integrations  
APPROVED

Sohil  
8/17/2017 5:58:11 PM

Quant Time: Aug 17 14:52:12 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Aug 15 13:25:08 2017  
Response via : Initial Calibration





#1

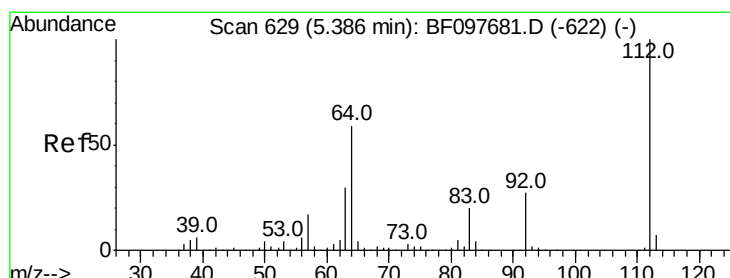
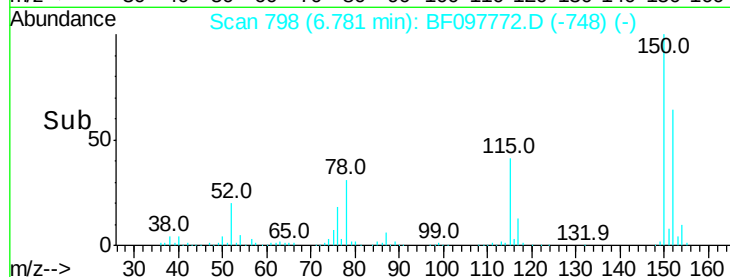
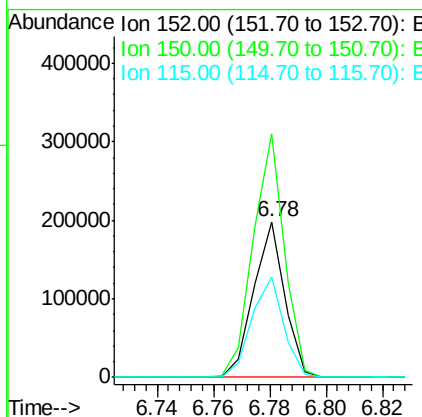
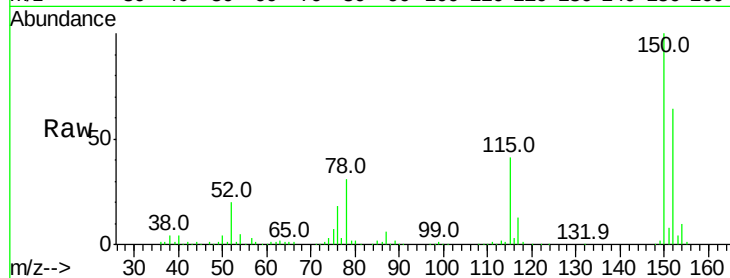
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.78 min Scan# 798  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 126.2 | 189.2 |
| 115     | 64.4  | 52.2  | 78.2  |

Manual Integrations  
APPROVED

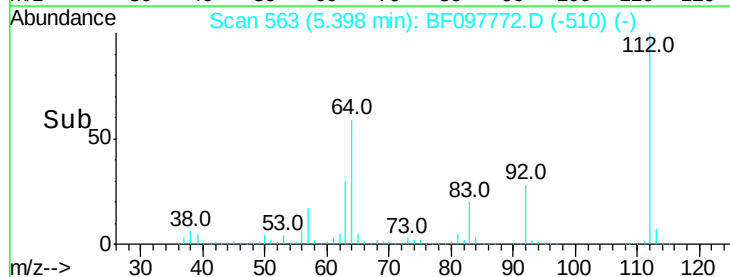
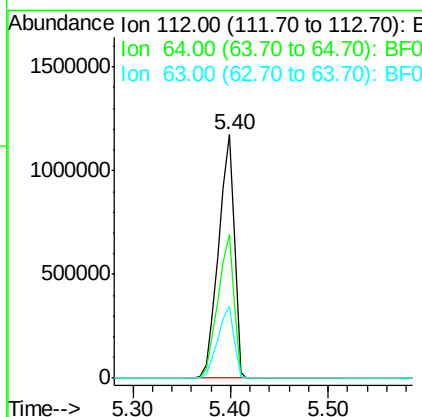
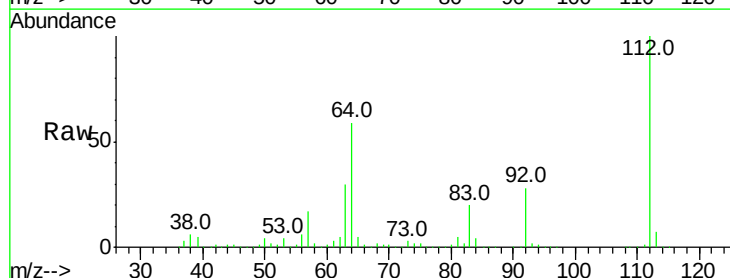
Sohil  
8/17/2017 5:58:11 PM

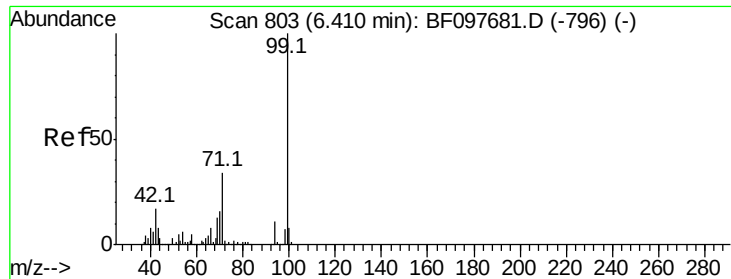


#5

2-Fluorophenol  
Concen: 132.825 ng  
RT: 5.40 min Scan# 563  
Delta R.T. 0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.2  | 46.0  | 69.0  |
| 63      | 29.7  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 132.019 ng

RT: 6.42 min Scan# 736

Delta R.T. 0.01 min

Lab File: BF097772.D

Acq: 17 Aug 2017 7:18

Instrument :

BNA\_F

ClientSampleId :

SB-22-COMP

Tot Ion: 99 Resp: 1779485

Ion Ratio Lower Upper

99 100

42 15.3 13.5 20.3

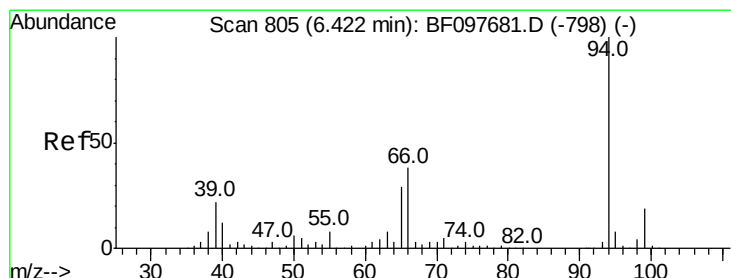
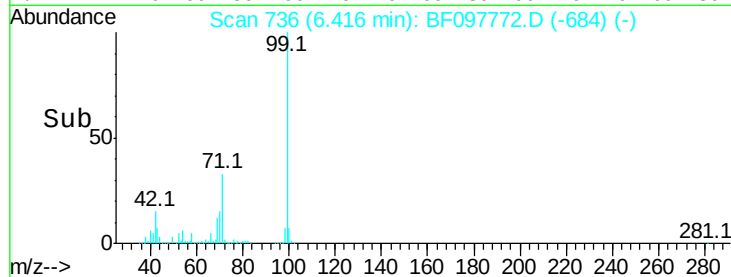
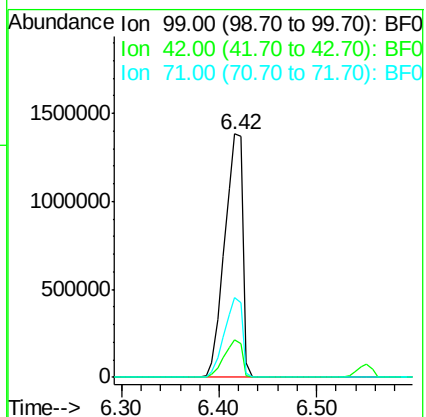
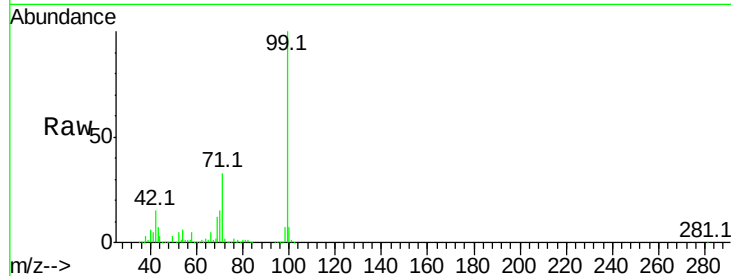
71 32.8 24.5 36.7

Manual Integrations

APPROVED

Sohil

8/17/2017 5:58:11 PM



#10

Phenol

Concen: 3.226 ng

RT: 6.43 min Scan# 738

Delta R.T. 0.01 min

Lab File: BF097772.D

Acq: 17 Aug 2017 7:18

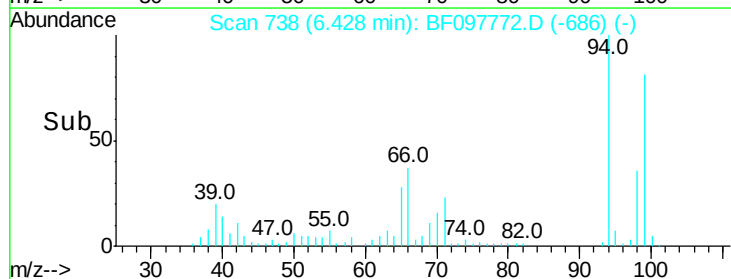
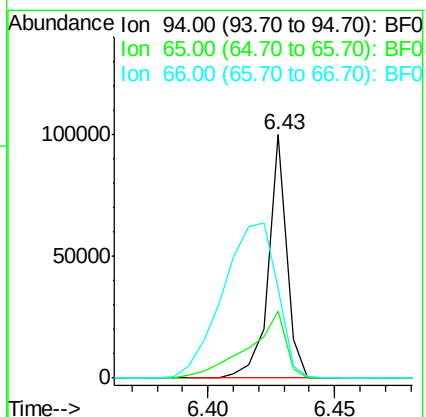
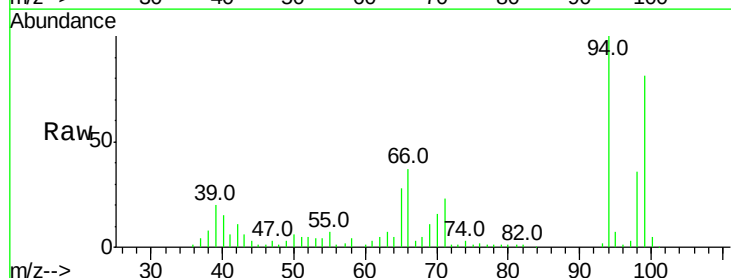
Tgt Ion: 94 Resp: 50851

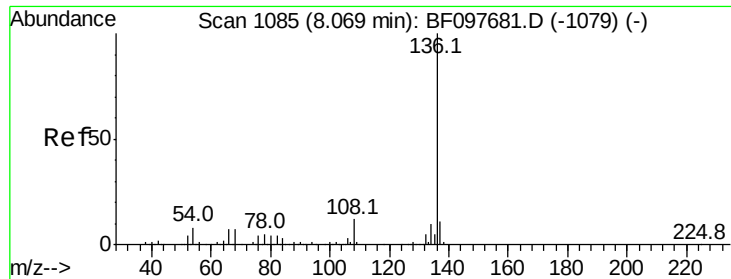
Ion Ratio Lower Upper

94 100

65 27.7 9.9 49.9

66 36.7 23.1 63.1





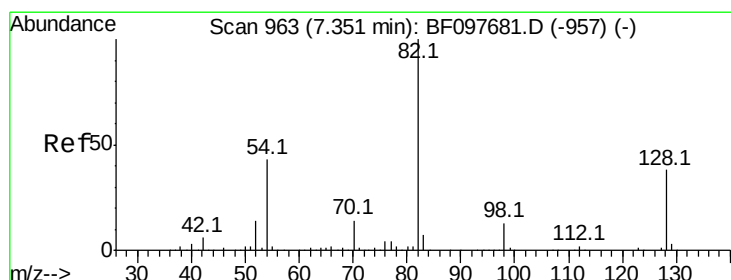
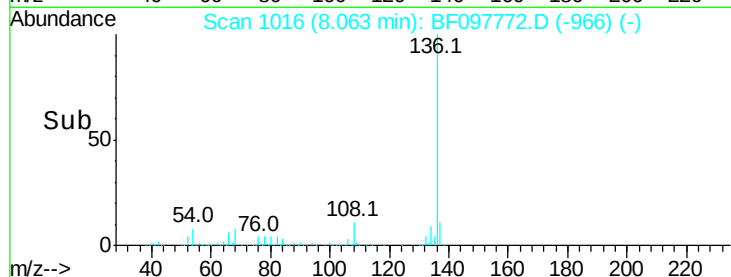
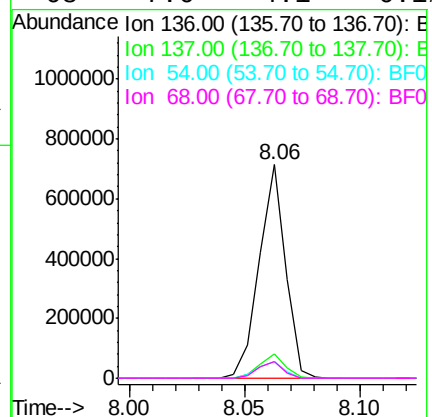
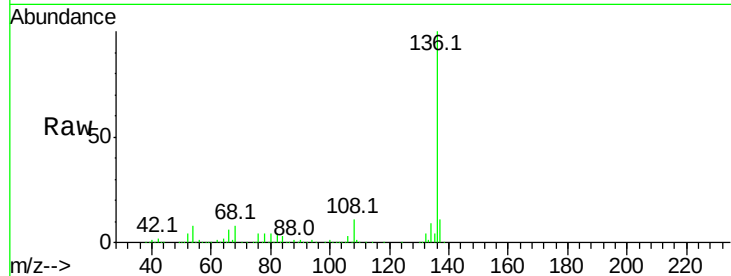
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.06 min Scan# 1016  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampled :  
SB-22-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.4  | 8.5  | 12.7  |       |
| 54      | 7.6   | 4.9  | 7.3#  |       |
| 68      | 7.6   | 4.1  | 6.1#  |       |

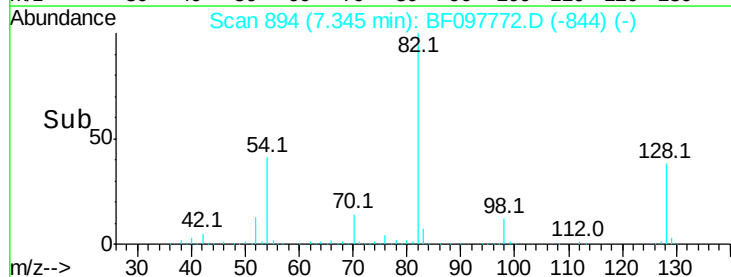
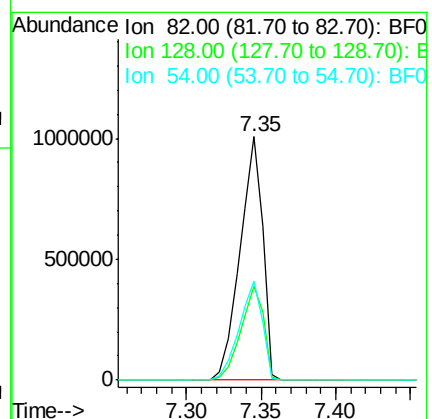
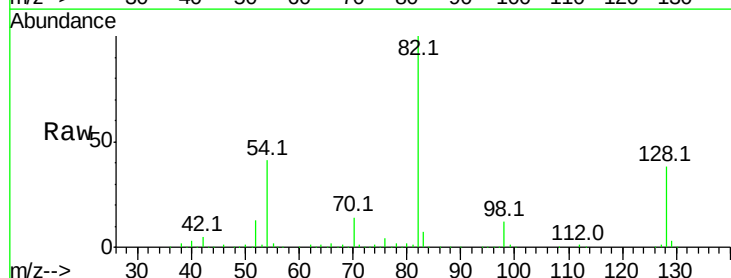
Manual Integrations  
APPROVED

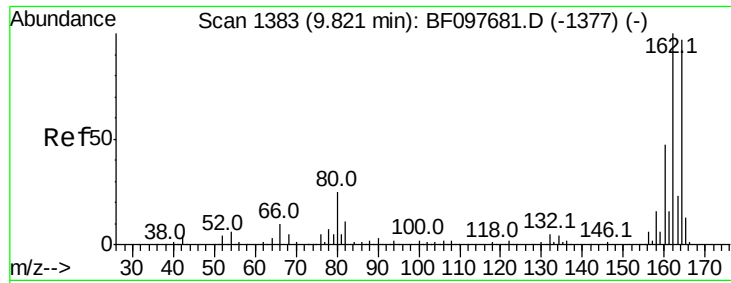
Sohil  
8/17/2017 5:58:11 PM



#23  
Nitrobenzene-d5  
Concen: 101.804 ng  
RT: 7.35 min Scan# 894  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 38.5  | 34.0 | 51.0  |       |
| 54      | 40.9  | 42.2 | 63.2# |       |





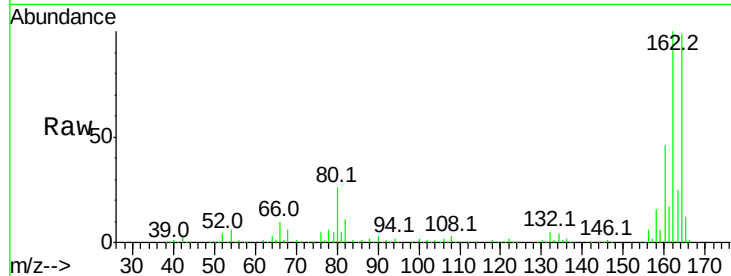
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1314  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

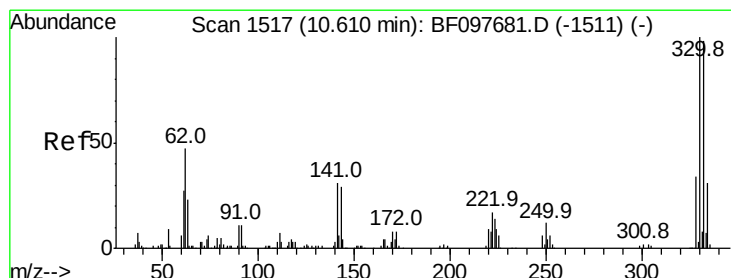
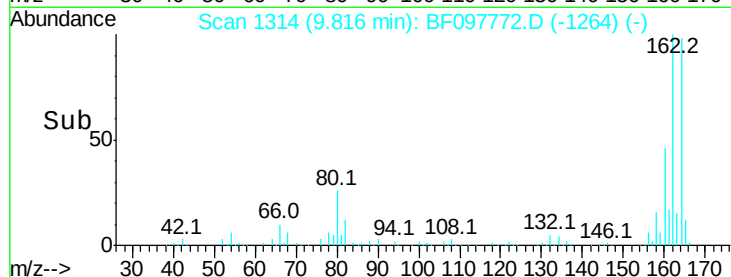
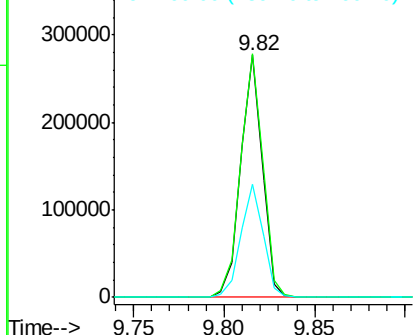
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 229992 |       |       |
| 162     | 100.5 | 82.6   | 123.8 |       |
| 160     | 46.6  | 36.2   | 54.2  |       |

Manual Integrations  
APPROVED

Sohil  
8/17/2017 5:58:11 PM

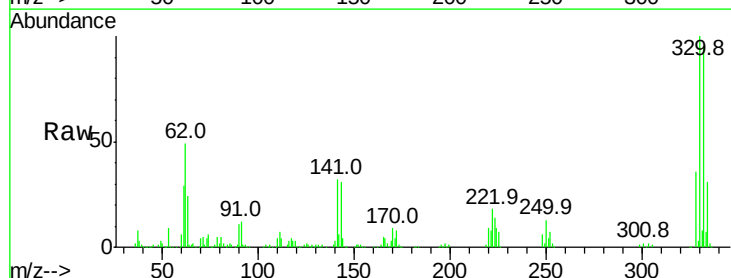


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

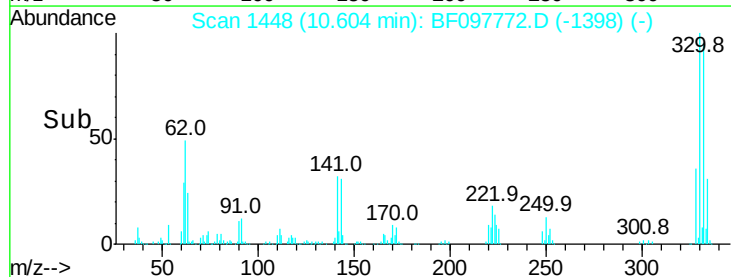
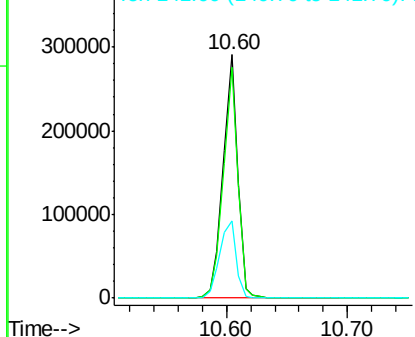


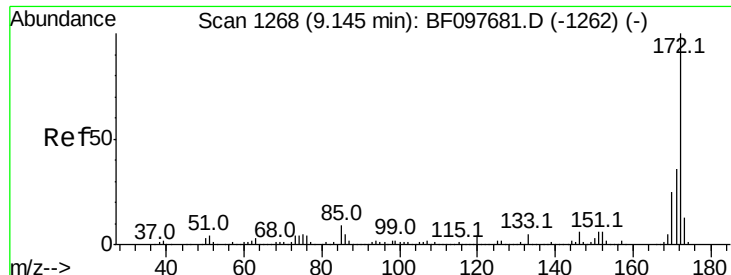
#41  
2,4,6-Tribromophenol  
Concen: 122.485 ng  
RT: 10.60 min Scan# 1448  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 244425 |       |       |
| 332     | 94.4  | 76.6   | 115.0 |       |
| 141     | 35.8  | 31.4   | 47.2  |       |



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





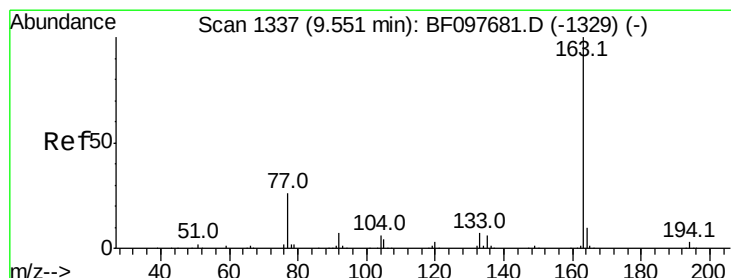
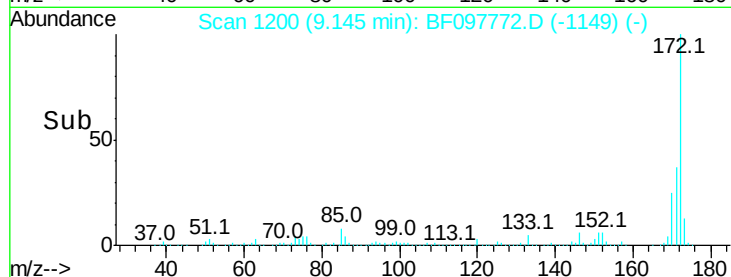
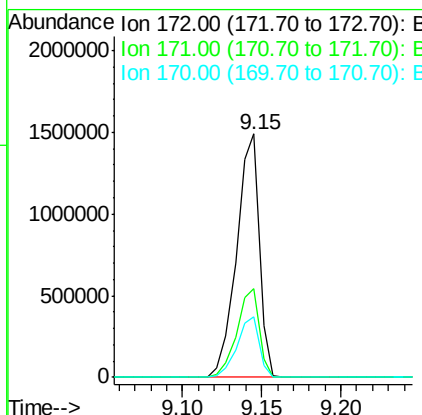
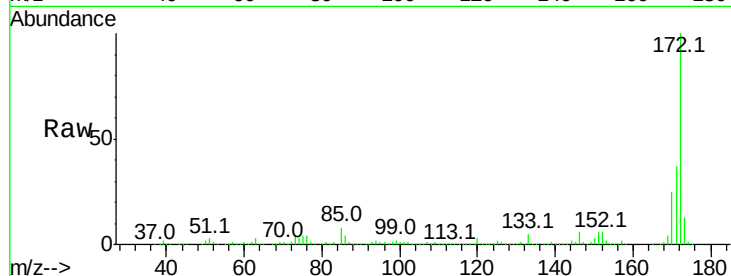
#44  
 2-Fluorobiphenyl  
 Concen: 94.406 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. 0.00 min  
 Lab File: BF097772.D  
 Acq: 17 Aug 2017 7:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 29.6  | 44.4  |
| 170     | 24.7  | 19.8  | 29.8  |

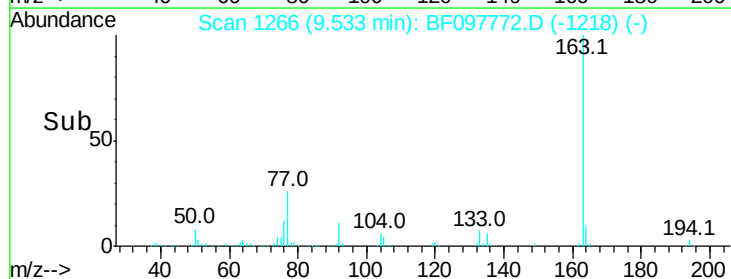
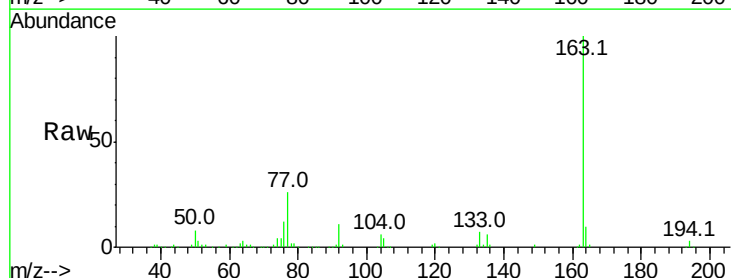
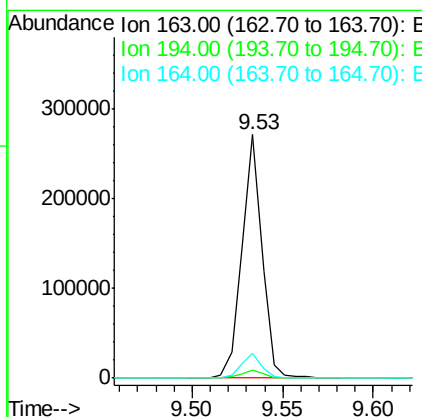
Manual Integrations  
 APPROVED

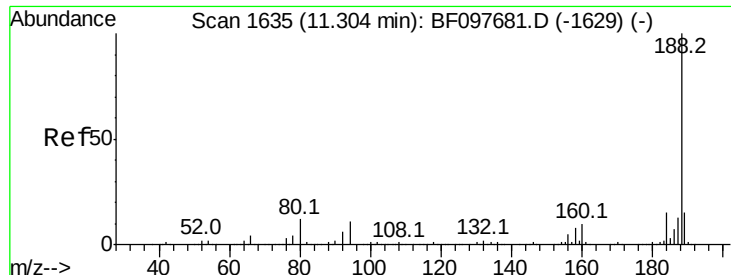
Sohil  
 8/17/2017 5:58:11 PM



#49  
 Dimethylphthalate  
 Concen: 12.429 ng  
 RT: 9.53 min Scan# 1266  
 Delta R.T. -0.02 min  
 Lab File: BF097772.D  
 Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 2.6   | 4.0   |
| 164     | 9.9   | 8.4   | 12.6  |





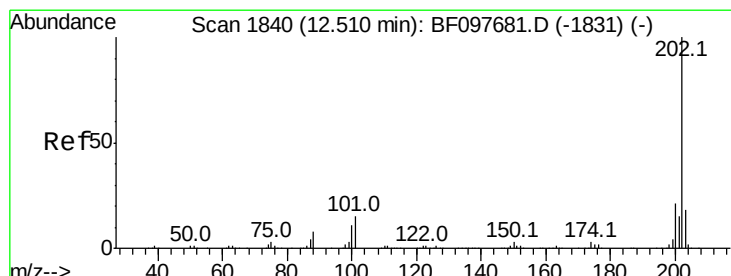
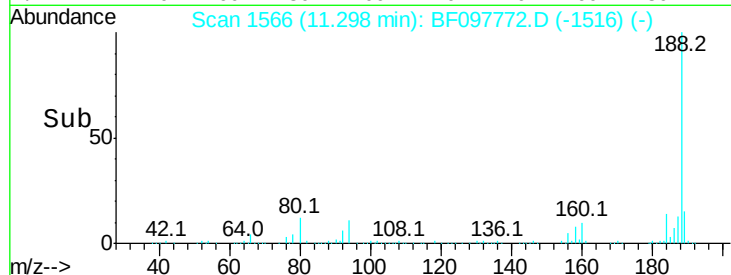
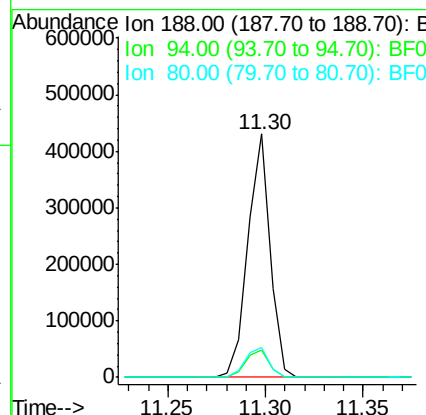
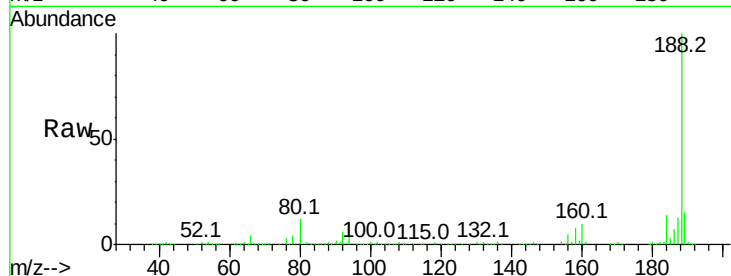
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.30 min Scan# 1566  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 11.1  | 9.4  | 14.2  |       |
| 80      | 12.2  | 10.2 | 15.2  |       |

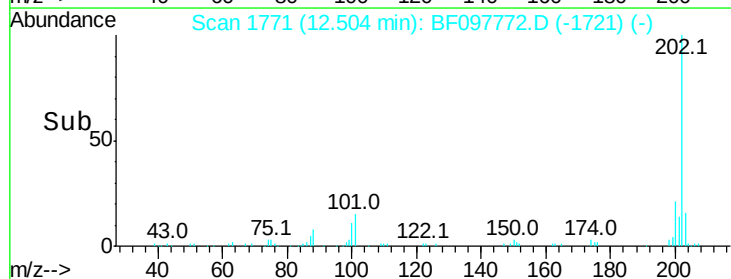
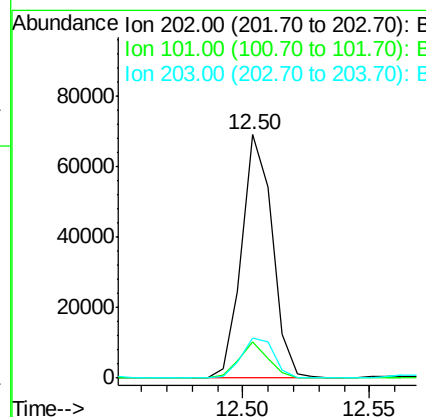
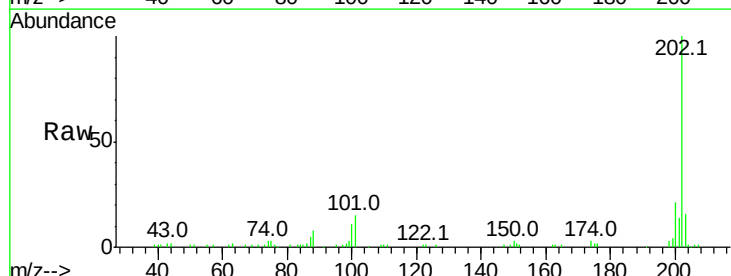
Manual Integrations  
APPROVED

Sohil  
8/17/2017 5:58:11 PM

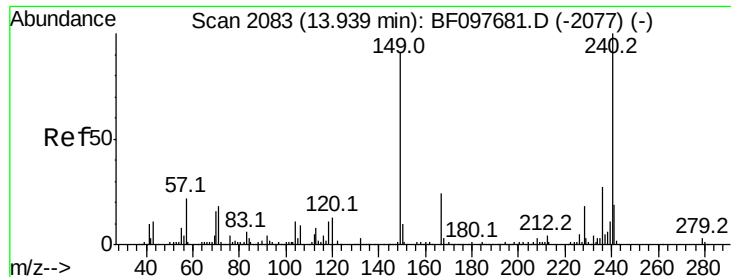


#74  
Fluoranthene  
Concen: 3.066 ng  
RT: 12.50 min Scan# 1771  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 14.8  | 0.0  | 33.2  |       |
| 203     | 16.5  | 0.0  | 38.1  |       |







#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097772.D

Acq: 17 Aug 2017 7:18

Instrument :

BNA\_F

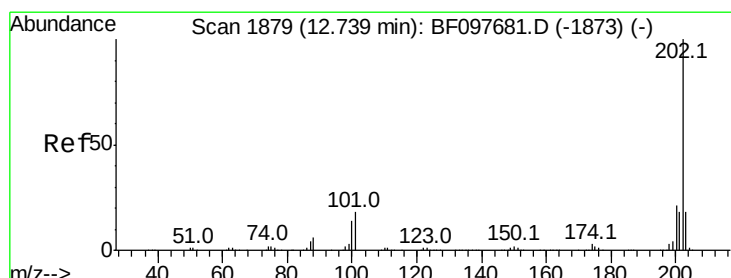
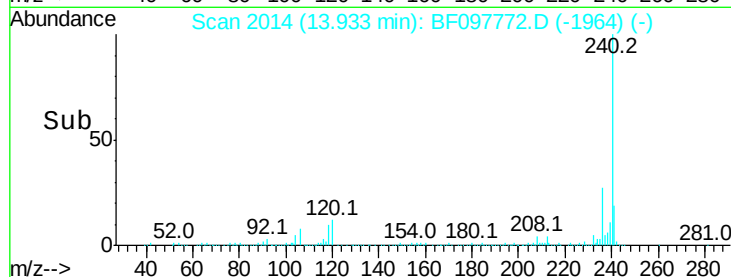
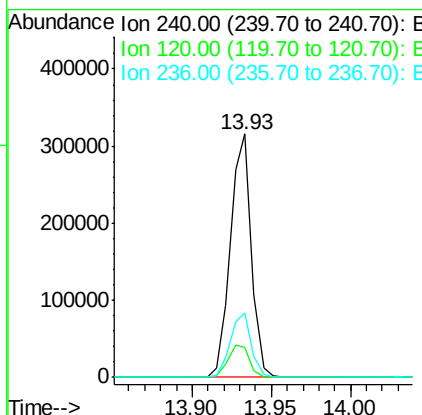
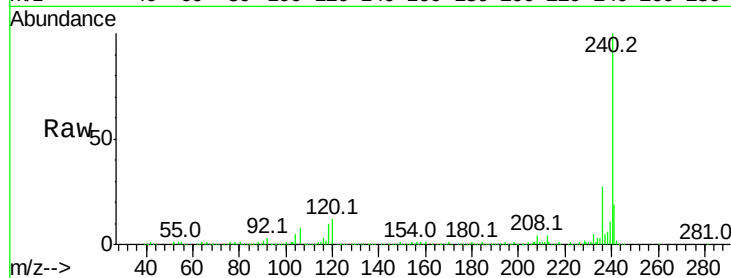
ClientSampleId :

SB-22-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 288622 |       |       |
| 120     | 12.1  | 5.8    | 8.8#  |       |
| 236     | 26.5  | 20.5   | 30.7  |       |

Manual Integrations  
APPROVED

Sohil  
8/17/2017 5:58:11 PM



#77

Pyrene

Concen: 2.887 ng

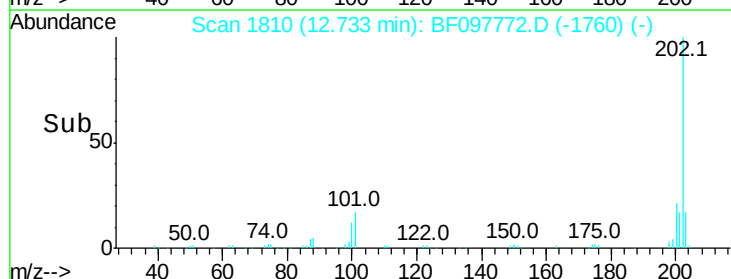
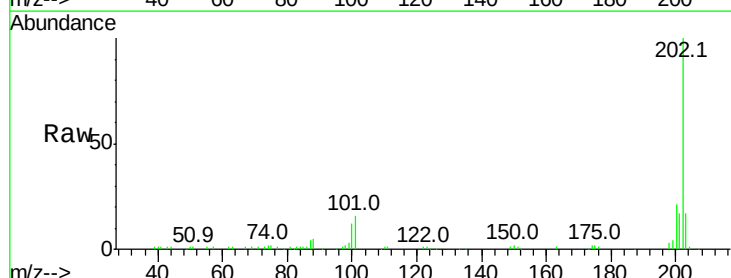
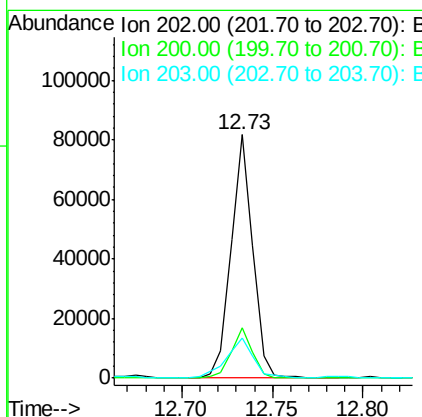
RT: 12.73 min Scan# 1810

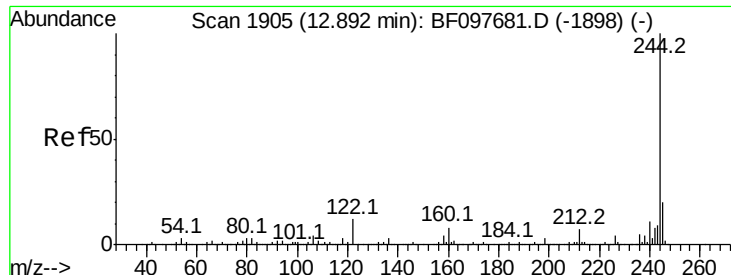
Delta R.T. -0.01 min

Lab File: BF097772.D

Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 68157 |       |       |
| 200     | 20.5  | 17.6  | 26.4  |       |
| 203     | 16.7  | 14.4  | 21.6  |       |





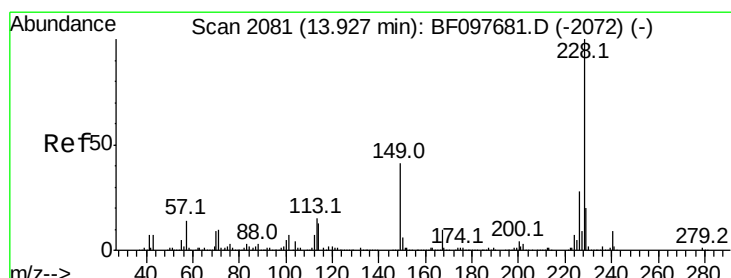
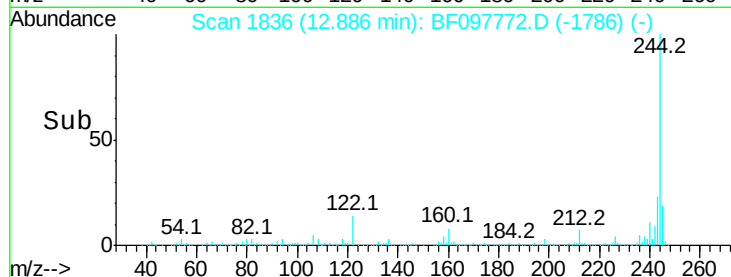
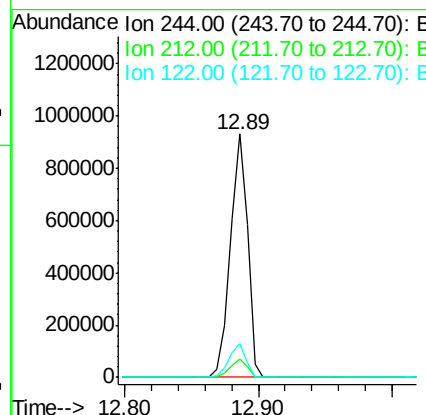
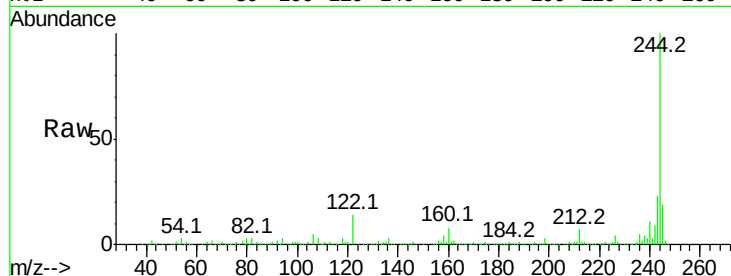
#78  
 Terphenyl-d14  
 Concen: 61.580 ng  
 RT: 12.89 min Scan# 1836  
 Delta R.T. -0.01 min  
 Lab File: BF097772.D  
 Acq: 17 Aug 2017 7:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-22-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 244     | 100   |      |       |       |
| 212     | 7.4   | 6.0  | 9.0   |       |
| 122     | 13.8  | 10.3 | 15.5  |       |

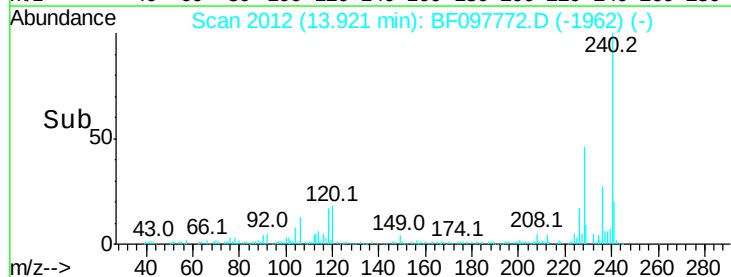
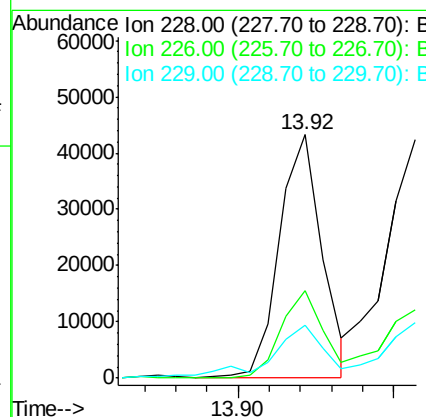
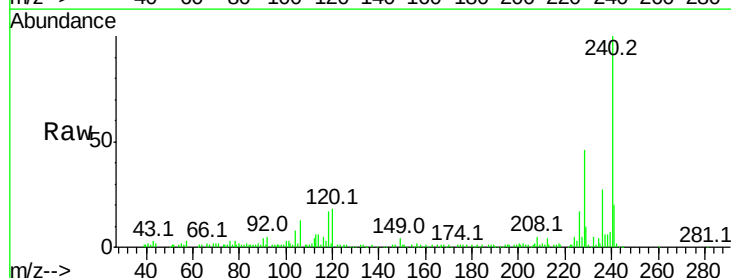
Manual Integrations  
 APPROVED

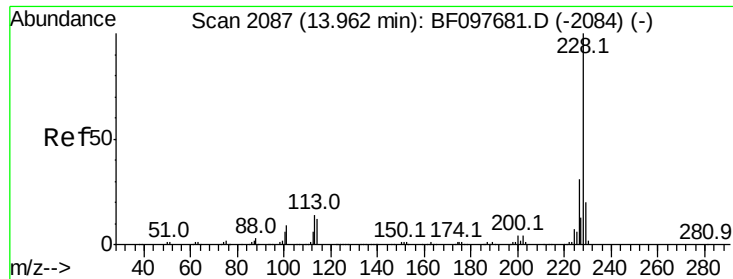
Sohil  
 8/17/2017 5:58:11 PM



#80  
 Benzo(a)anthracene  
 Concen: 2.380 ng m  
 RT: 13.92 min Scan# 2012  
 Delta R.T. -0.01 min  
 Lab File: BF097772.D  
 Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 36.2  | 22.6 | 33.8# |       |
| 229     | 21.5  | 16.3 | 24.5  |       |





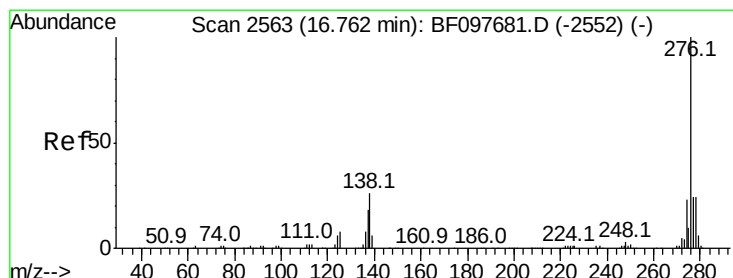
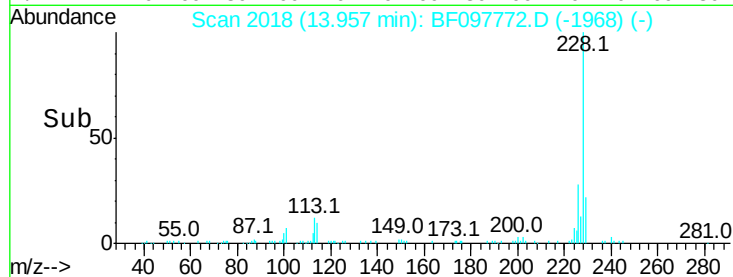
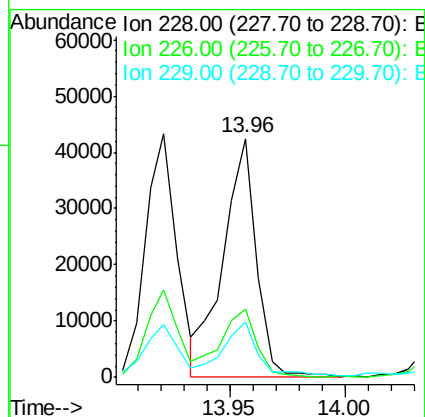
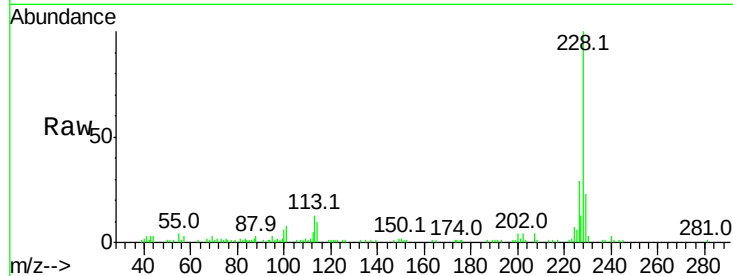
#82  
Chrysene  
Concen: 2.475 ng  
RT: 13.96 min Scan# 2018  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 42594 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.8  | 24.9  | 37.3  |
| 229       | 23.1  | 15.8  | 23.6  |

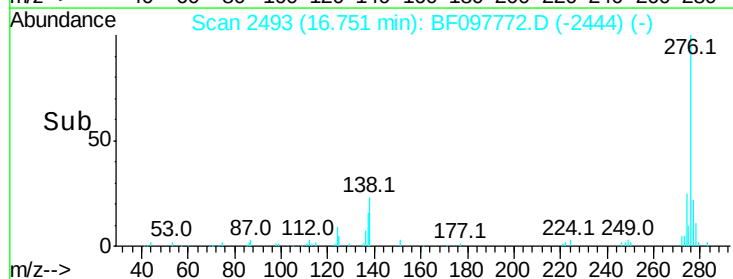
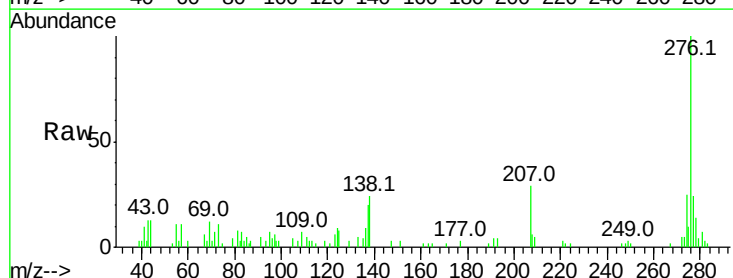
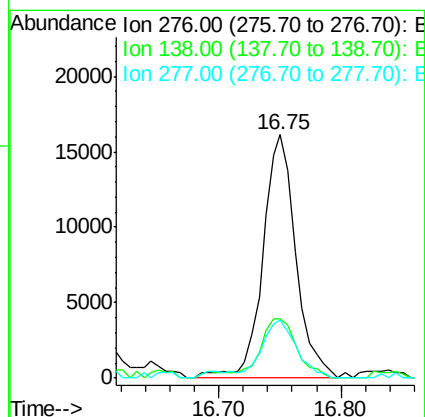
Manual Integrations  
APPROVED

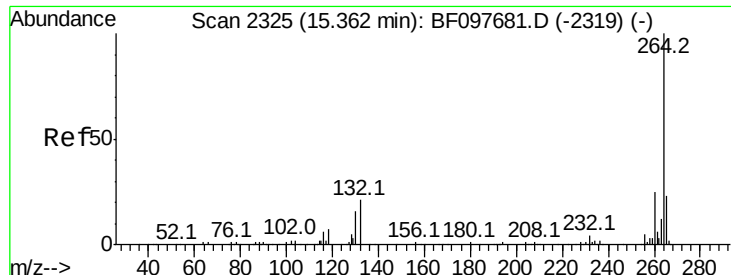
Sohil  
8/17/2017 5:58:11 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.384 ng m  
RT: 16.75 min Scan# 2493  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 30173 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 8.1   | 27.8  | 41.6# |
| 277       | 5.9   | 20.2  | 30.4# |





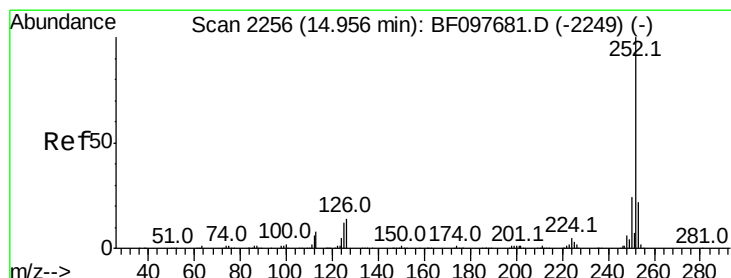
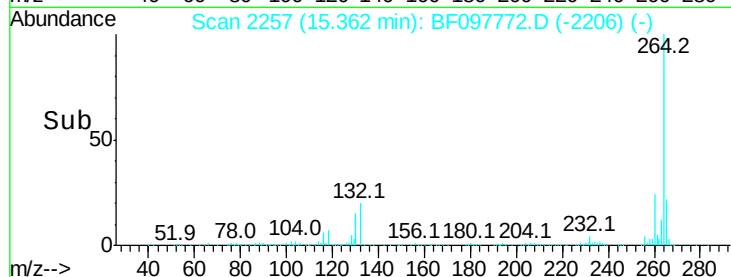
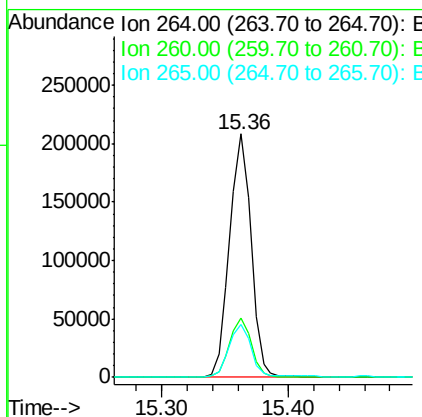
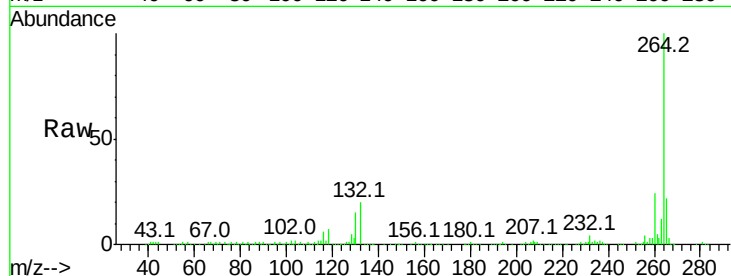
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2257  
Delta R.T. 0.00 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 24.4  | 19.5       | 29.3  |
| 265     | 21.8  | 17.2       | 25.8  |

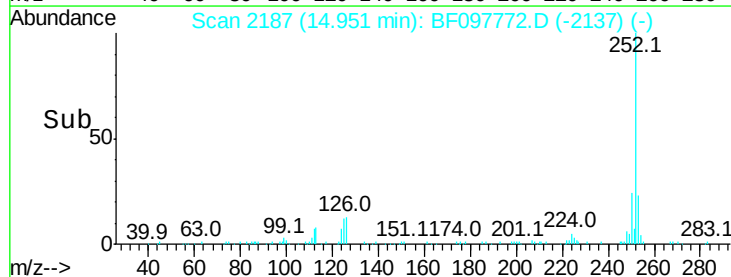
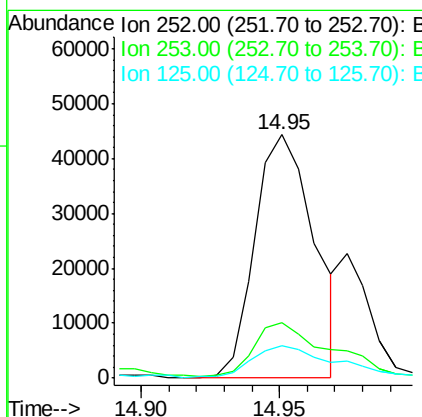
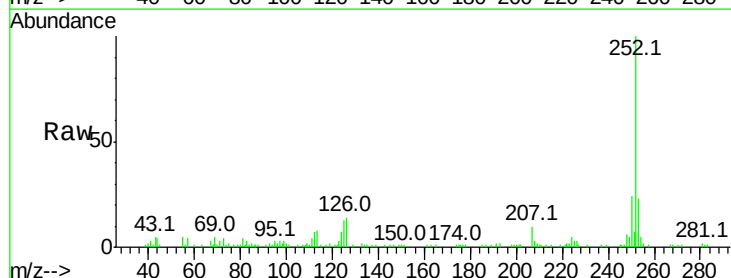
Manual Integrations  
APPROVED

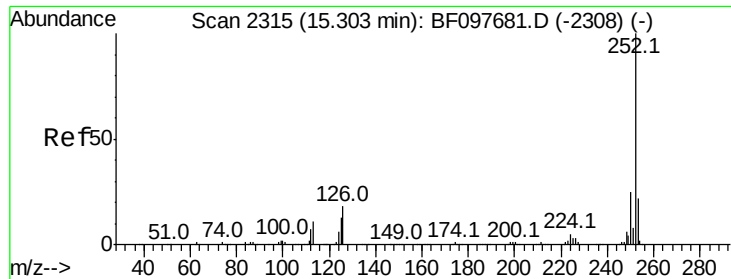
Sohil  
8/17/2017 5:58:11 PM



#87  
Benzo(b)fluoranthene  
Concen: 4.252 ng m  
RT: 14.95 min Scan# 2187  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.6  | 18.1       | 27.1  |
| 125     | 13.3  | 9.8        | 14.8  |





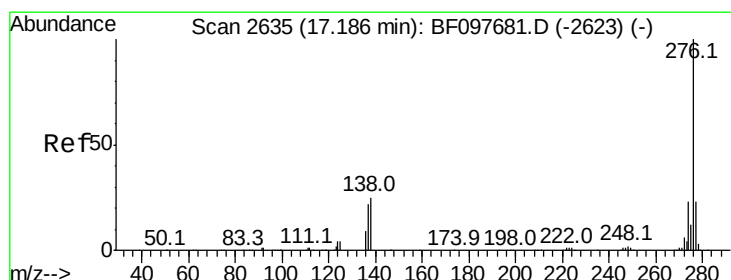
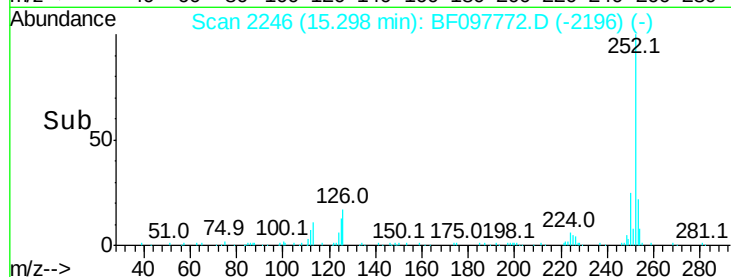
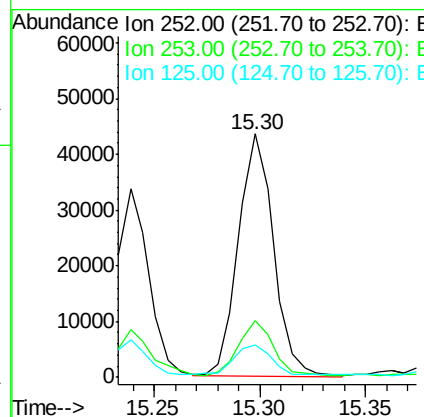
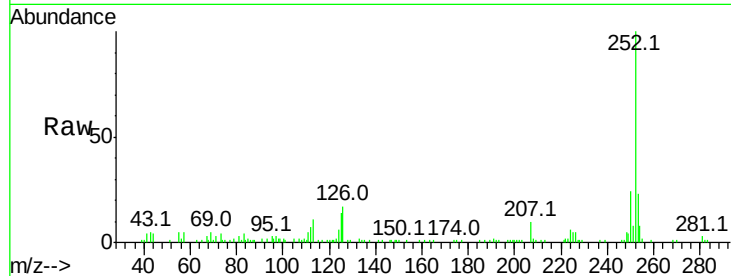
#89  
Benzo(a)pyrene  
Concen: 3.642 ng  
RT: 15.30 min Scan# 2246  
Delta R.T. -0.01 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

Instrument :  
BNA\_F  
ClientSampleId :  
SB-22-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 50010 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 17.5  | 26.3  |
| 125       | 13.5  | 11.0  | 16.4  |

Manual Integrations  
APPROVED

Sohil  
8/17/2017 5:58:11 PM



#91  
Benzo(g,h,i)perylene  
Concen: 3.235 ng  
RT: 17.17 min Scan# 2564  
Delta R.T. -0.02 min  
Lab File: BF097772.D  
Acq: 17 Aug 2017 7:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 37725 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.8  | 18.6  | 28.0  |
| 138       | 27.5  | 25.4  | 38.0  |

